

TEST & MEASUREMENT INSTRUMENTS

Product Catalog 2026



Innovating the Future:

An Overview of UNI-T

UNI-T was founded in 1988 and officially registered as UNI-Trend (China) Technology Co., Ltd. in 2003. We design and manufacture advanced test and measurement solutions. For years, we have been dedicated to pioneering technology and providing professional solutions, with a vision for a sustainable and shared future. UNI-T has consistently driven innovation in the electronic testing and measurement industry. As a well-established and trusted brand, we cater to a diverse range of sectors, including Education and Scientific Research, Industrial Automation, Automotive, Transportation, Energy, Semiconductors, Network and Communications, Medical, Environmental Protection, and beyond. The company went public in SSE STAR (Sci Tech Innovation Board) stock market in Feb. 2021 (code: 688628)



Driving Innovation Through R&D Excellence

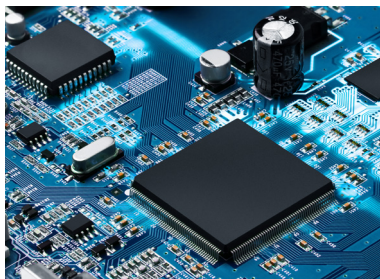
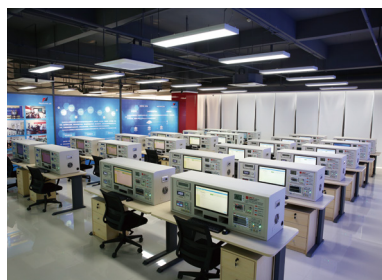
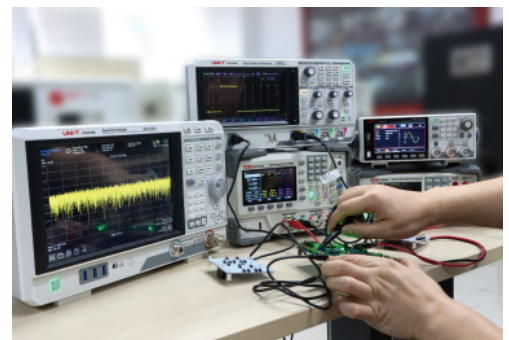
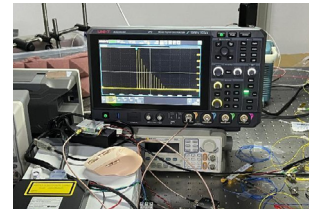
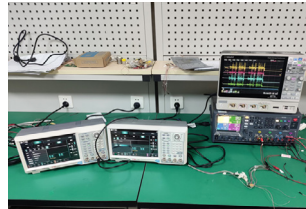
With three dedicated R&D centers in Dongguan, Chengdu, and Changzhou, and a team of over 350 experienced engineers, UNI-Trend Group is deeply committed to research and development. This focus ensures we maintain a competitive edge by delivering reliable, innovative, and cost-effective products.

Our proprietary manufacturing facility covers 120,000 square meters and has an annual production capacity exceeding 10 million units. This extensive infrastructure underpins our specialization in testing solutions, allowing us to support and enhance the capabilities of our global partners and customers. Through our R&D-driven approach, we are dedicated to advancing technology and providing superior solutions tailored to diverse industry needs worldwide.



Comprehensive Solutions for Diverse Industries

As a growing company with solutions that span multiple sectors, there's a lot to talk about UNI-Trend Group. We got four major product lines: Test & Measurement Instruments, Field Measurement Instruments, Thermal Imagers and Environmental Testers. Our products serve a wide range of industries and applications, making UNI-T a reliable partner for everything from R&D projects to facility and equipment maintenance. Our Test & Measurement Instruments portfolio includes Signal Analyzers, RF & Microwave, Power Electronic, Passive components and Safety Testers.



Customer-Centric Sales: Global Reach, Local Support

UNI-T's network of worldwide partners, spanning over 80 countries, ensures that our customers receive timely services whenever and wherever needed. We work closely with our partners, not only on product and technical matters but also on business development and channel strategies, to guarantee customer satisfaction. Together, we are committed to maintaining the highest quality products and services for scientists, engineers, and technicians globally, driving success and innovation for the future.

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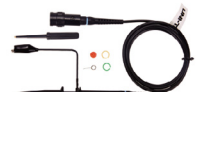
Oscilloscopes

High Resolution Oscilloscopes

Selection Guide

Series	Model	Channels	Memory Depth	Sample Rate	Vertical Resolution	Bandwidth											
						8 GHz	5 GHz	1 GHz	500 MHz	350 MHz	250 MHz	200 MHz	150 MHz	100 MHz	80 MHz	70 MHz	60 MHz
MSO8000HD	MSO8804HD	4+16Digit	2Gpts	20GSa/s	12-bit	•											
	MSO8504HD						•										
MSO5000HD	MSO5104HD	4+16Digit	500Mpts	5GSa/s	12-bit			•									
	MSO5054HD								•								
	MSO5034HD									•							
MSO3000HD	MSO3054HD	4+16Digit	500Mpts	2.5GSa/s	12-bit				•								
	MSO3034HD									•							
	MSO3024HD										•						
UPO2000HD	UPO2204HD	4	100Mpts	2.5GSa/s	12-bit							•					
	UPO2202HD	2										•					
	UPO2104HD	4											•				
	UPO2102HD	2											•				
	UPO2074HD	4														•	
	UPO2072HD	2														•	
MSO1000HD	MSO1254HD-S	4+16Digit	100Mpts	2.5GSa/s	12-bit						•						
	MSO1254HD										•						
	MSO1154HD-S											•					
	MSO1154HD											•					
UPO1000HD	UPO1154HD	4	100Mpts	1.25GSa/s	12-bit							•					
	UPO1152HD	2										•					
	UPO1084HD	4													•		
	UPO1082HD	2													•		

Accessories

Model	Picture	Information	Certification	Series
UT-H01		Probe factor:(10:1) Bandwidth: 25MHz.voltage:600Vpp	CE&UKCA	UTD1000L
UT-H03		Probe factor:(10:1) Bandwidth: 60MHz.voltage:600Vpp		UTD1000C; UTD1000L
UT-H04		Probe factor:(10:1) Bandwidth: 100MHz.voltage:600Vpp		UTD1000C
UT-H05		Probe factor:(10:1) Bandwidth: 200MHz.voltage:600Vpp		UTD1000C
UT-P01		Probe factor:(10:1) Bandwidth: 25MHz.voltage:600Vpp		UTD2000CL/CL+
UT-P03		Probe factor:(10:1) Bandwidth: 60MHz.voltage:600Vpp		UTD2000CEX+; UTD2000CL/CL+
UT-P04		Probe factor:(10:1) Bandwidth: 100MHz.voltage:600Vpp		MSO2000X; MSO/UPO2000; UPO1002; UPO1000; UTD2000CEX+; UTD2000CL/CL+; UPO2000HD; UPO1000HD
UT-P05		Probe factor:(10:1) Bandwidth: 200MHz.voltage:600Vpp		MSO3000HD; MSO/UPO3000E; MSO3000X; MSO2000X; MSO/UPO2000; UPO1002; UPO1000; UTD2000CEX+; UTD2000CL/CL+; UPO2000HD; MSO1000HD; UPO1000HD
UT-P06		Probe factor:(10:1) Bandwidth: 300MHz.voltage:600Vpp		MSO3000HD; MSO7000X; MSO/UPO3000E; MSO3000X; MSO2000X; MSO1000HD
UT-P07A		Probe factor:(10:1) Bandwidth: 500MHz.voltage:600Vpp		MSO3000HD; MSO7000X; MSO/UPO3000E; MSO3000X; MSO5000HD; MSO8000HD
UT-P08A		Probe factor:(10:1) Bandwidth: 350MHz.voltage:600Vpp		MSO3000HD; MSO/UPO3000E; MSO3000X; MSO2000X; MSO5000HD
UT-PA1000		1GHz bandwidth, 10:1 attenuation ratio, ±4V dynamic range Single-ended active probe	CE	MSO3000HD; MSO7000X; MSO3000X; MSO5000HD; MSO8000HD; UPO7000L
UT-PA2000		2GHz bandwidth, 10:1 attenuation ratio, ±4V dynamic range Single-ended active probe		
UT-P20		Passive probe: (100:1) Bandwidth: 250MHz. voltage: 1500V	CE&UKCA	MSO3000HD; MSO7000X; MSO/UPO3000E; MSO3000X; MSO2000X; MSO/UPO2000; UPO1002; UPO1000; UTD2000CEX+; UTD2000CL/CL+; MSO5000HD; UPO2000HD; MSO1000HD; MSO8000HD; UPO7000L; UPO1000HD
UT-P21		Passive high voltage probe: (1000:1) Bandwidth: 40MHz voltage: DC 10kV/AC 7kVrms		
UT-P30		Differential probe:(10:1/100:1) Bandwidth: 100MHz differential voltage: 800Vpp		
UT-P31		High voltage differential probe: (100:1/1000:1) Bandwidth: 100MHz differential voltage: 1500Vpp		
UT-P32		Differential probe:(1000:1/100:1) Bandwidth: 50MHz, Input differential voltage: 3000Vpp		
UT-P33		Differential probe:(1000:1/100:1) Bandwidth:70/50MHz, differential voltage: 14KVpp		
UT-P35		High voltage Differential probe:1:50,130V(DC+peakAC); 1:500,1300V(DC+peakAC),Bandwidth:50MHz,Precision:2%	ROW	
UT-P36		High voltage Differential probe: 1/200:560(DC+peakAC) 1/2000:5600(DC+peakAC), Bandwidth:100MHz,Precision:2%		
UT-V23		High voltage probe:(100:1) Bandwidth: 100MHz,voltage: 2000Vpp	CE&UKCA	
UT-P40		Conversion ratio:50mV/A, 5mV/A,Current range : 0.4A-60A, Frequency: DC-100kHz,voltage: 600Vrms		
UT-P41		Conversion ratio:100mV/A, 10mV/A, Current range: 50mA-100A, Frequency: DC-100kHz, voltage: 600Vrms		
UT-P42		Conversion ratio:50mV/A, 5mV/A, Current range: 0.4A-200A, Frequency: DC-150kHz, voltage: 600Vrms		

Model	Picture	Information	Certification	Series
UT-P43		Current range :20A AC/DC, Frequency: DC-25MHz, Conversion ratio:100mV/A	ROW	MSO3000HD; MSO7000X; MSO/UPO3000E; MSO3000X; MSO2000X; MSO/UPO2000; UPO1002; UPO1000; UTD2000CEX+; UTD2000CL/CL+; MSO5000HD; UPO2000HD; MSO1000HD; MSO8000HD; UPO7000L; UPO1000HD
UT-P44		Current range: 40A AC/DC, Frequency: DC-50MHz, Conversion ratio:50mV/A		
UT-M15		Logic analyzer probe:16CH	ROHS	MSO3000HD; MSO7000X; MSO/UPO3000E; MSO3000X; MSO2000X; MSO/UPO2000; MSO5000HD; MSO8000HD
UT-M26		Logic analyzer probe:16CH		MSO1000HD
UT-ISOT		Isolation transformer for Bode plot application (Hardware)		MSO3000HD; MSO7000X; MSO3000X; MSO2000X; MSO/UPO3000E; MSO/UPO2000; MSO5000HD; MSO1000HD; MSO8000HD; UPO7000L
UT-P4030D		30A/ DC~100MHz High frequency current probe Range:30A/5A,Freq range:DC-100MHz,Rise time:≤3.5ns	ROW	MSO3000HD; MSO7000X; MSO/UPO3000E; MSO3000X; MSO2000X; MSO/UPO2000; UPO1002; UPO1000; UTD2000CEX+; UTD2000CL/CL+ MSO5000HD; UPO2000HD; MSO1000HD; UPO7000L; UPO1000HD
UT-P4150		150A/ DC-12MHz High frequency current probe Range:150A/30A,Freq range:DC-12MHz,Rise time:≤29ns		
UT-P4500		500A/ DC~5MHz High frequency current probe Range:500A/75A,Freq range:DC-5MHz,Rise time:≤70ns		
UT-P4100A		100A/600kHz Low frequency current probe Range:100A/10A,Freq range:DC-600kHz,Rise time:≤583ns		
UT-P4100B		100A/2MHz Low frequency current probe Range:100A/10A,Freq range:DC-2MHz,Rise time:≤175ns		
UT-M13X		Oscilloscope Signal Protocol Demonstration Board		MSO3000HD; MSO7000X; MSO3000X; MSO2000X; MSO/UPO3000E; MSO/UPO2000; UPO1002; UPO1000; UPO1002; MSO5000HD; MSO8000HD; UPO2000HD; MSO1000HD; UPO7000L; UPO1000HD
UT-USB20-SQ-HD		USB 2.0 Test Fixture		MSO7000X; MSO8000HD
UT-GBE-FT		100M/1000M ETH Test Fixture		MSO7000X; MSO8000HD

MSO8000HD Series NEW

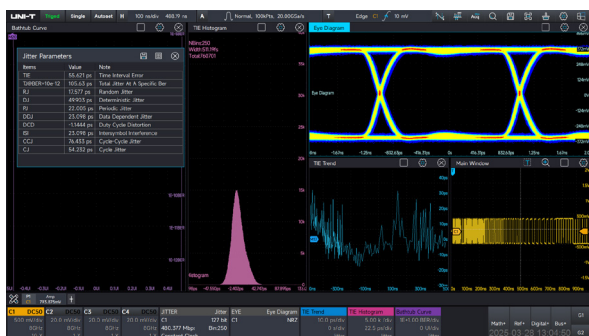
High Resolution Oscilloscopes



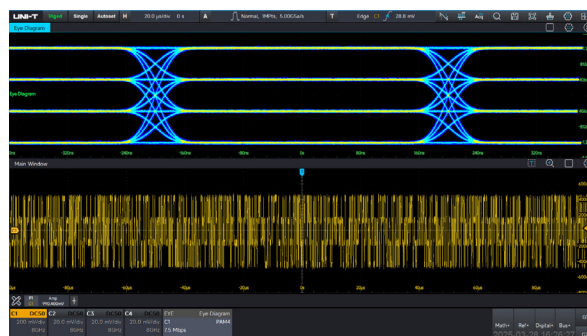
The MSO8000HD Series high-resolution oscilloscopes provides two bandwidth 8 GHz and 5 GHz. The entire series features a standard 20 Gsa/s sample rate and 12-bit vertical resolution. Equipped with UNI-T's independently developed analog front-end chipset, these oscilloscopes offer optimized performance and a lower noise floor, delivering significant advantages in testing high-speed and high-dynamic-range signals.

- 4 CH+16 Digital
- BW: 8 GHz/5 GHz
- Sample rate 20Gsa/s
- Vertical resolution: 12-bit (ERes 16bit)
- Memory depth: 1 Gpts, 2 Gpts(opt.)
- Waveform capture rate: 1,000,000wfms/s (Sequence mode)
- All in one: Digital oscilloscope, Function/Arbitrary Waveform Generator, Spectrum Analyzer, Digital Voltmeter, Frequency Counter, Logic Analyzer, Protocol Analyzer, and Power analyzer

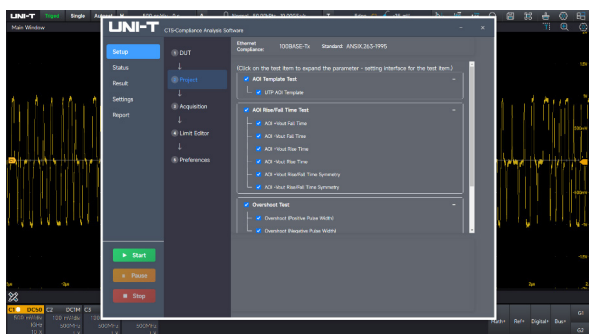
- Advanced measurement and analysis functions: Power analysis, Jitter analysis & Eye diagram, PAM-N Analysis, Mask and limit testing, Serial Protocol Analysis, Compliance Tests
- Win10 64-bit operating system
- 15.6-inch HD capacitive touchscreen
- 58 kinds of waveform parameter measurements
- Supports Matlab embedded programming and data presentation
- Filter designer



- Jitter analysis & eye diagram, Efficient measurement of clock and serial bus



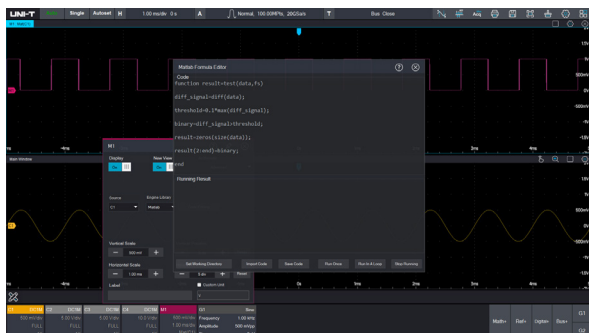
- Supports to PAM-3 to PAM-16 signal analysis



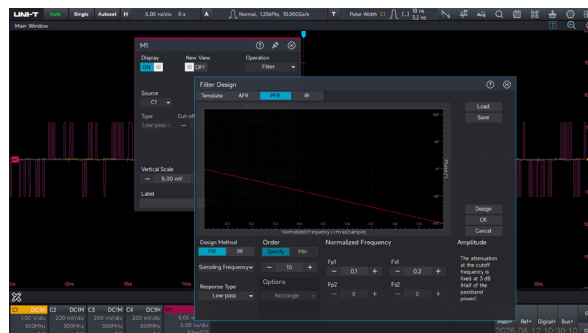
- Supports USB 2.0 and 100/1000 Mbps Ethernet protocol compliance testing
- Mainstream protocols such as automotive Ethernet, MIPI, and PCIe are being added gradually



- Noise floor: 50mV/div, as low as 800µV at full bandwidth (Typ.)
ENOB: >7 bits (at full system bandwidth, 50Ω, 50 mV/div, -3dBFS)



- Support MATLAB embedded programming



- Advanced filter designer

Key Specifications	MSO8504HD	MSO8804HD
Bandwidth	5 GHz	8 GHz
Channels	4	
Sample rate (analog)	20 GSa/s (half channels); 10 GSa/s (full channel)	
Sample rate (digital)	1.25GSa/s	
Memory depth	Standard: 500 Mpts/CH (Full channel), 1 Gpts/CH(Half channels) Option: 1 Gpts/CH (Full channel), 2 Gpts/CH (Half channels)	
Max. Waveform capture rate	≥1,000,000 wfms/s (Sequence mode)	
Time base scale	50 ps/div - 1000 s/div	
Input impedance	50Ω ±2% 1MΩ ±1% (15 ±3pF)	50Ω ±2%
Input impedance (digital)	101kΩ±2%	
Vertical scale	1MΩ: 1mV/div to 10V/div 50 Ω: 1mV/div to 1V/div	50 Ω: 1mV/div to 1V/div
DC gain accuracy	50Ω: ±1.5% (±2.0% when ≤5mV/div) ±1% of full scale division (≤5mV/div: ±1.5% of full scale division) 1MΩ: ±1.2% (±1.5% when ≤5 mV/div) ±1% of full scale division (≤5mV/div: ±1.2% of full scale division)	
Serial protocol analysis	Standard: RS-232/422/485/UART, SPI, I2C, CAN, LIN Option: CAN-FD, SENT, FlexRay, AudioBus (I2S/LJ/RJ/TDM), MIL-STD-1553, ARINC429, SMBUS, SPMI, I3C, PSIS, USB1.0/2.0, PCIe1.0/2.0, Ethernet, NRZ, Manchester, 8b/10b	
Waveform math	Supports up to 8 math waveforms simultaneously Enhanced FFT, basic mathematical operation, filter, advanced function editor Matlab embedded programming (Option), advanced filter designer (Option)	
Auto measurements	Supports 58 kinds of automatic parameter measurement, quick Meas, statistical analysis, histogram, trend chart, trace analysis	
Advanced analysis function	Power analysis (Option), jitter analysis and eye diagram (Option), limit template test, sequence mode, search and navigation	
Arbitrary waveform generator (optional)	2 CH, 60 MHz , 625 MSa/s	
Frequency counter	8-digit hardware frequency counter	
Digital voltmeter	4-digits,DC/AC RMS/DC+AC RMS	
Standard interfaces	USB Device, USB Host*5 (TYPE-C*1, TYPE-A*4), LAN (10\100\1000Mb/s), HDMI, AuxIn (Trigger Sync input, AWG external trigger input), AuxOut (Trigger Syn output, pass test result, AWG trigger output), 10MHz Ref In/Out	

General Characteristics		
Power	100V-240VAC (fluctuation ±10%) 50Hz, 60Hz 100V-120VAC (fluctuation ±10%) 400Hz	
Display	15.6-inch FHD capacitive touch screen, 1920×1080(H*V)	
Product net weight	< 12.5kg	
Product size (W×H×D)	445mm×311.3mm×189.7mm	
Standard quantity per carton	1pcs	

Ordering Information		
MSO8000HD Series	MSO8804HD: 8GHz Bw, 12bit, 4+16 CH, MSO ready, Max. 20 GSa/s, Memory depth: 1 Gpts, 1,000,000 wfm/s, 15.6" FHD Touch screen	
	MSO8504HD: 5GHz Bw, 12bit, 4+16 CH, MSO ready, Max. 20 GSa/s, Memory depth: 1 Gpts, 1,000,000 wfm/s, 15.6" FHD Touch screen	
Standard Accessories	National standard cable x1	
	SMA adapters BNC to SMA (50Ω) x2	
	SMA cables, 12GHz x2	
	BNC-BNC straight-through cable x2	
	USB3.0 data cable x1	
	Front-panel protective cover x1	
Optional Accessories	Active single-ended probe: UT-PA2000, UT-PA1000	
	Passive high-impedance probe (1X: 8MHz; 10X: 500MHz): UT-P07A	
	High Voltage Probe, UT-V23/UT-P21/UT-P20	
	High Voltage Differential Probe, UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36	
	Current Probe: UT-P40/UT-P41/UT-P42/UT-P43/UT-P44, UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B	
	16-channel logic analyzer probe: UT-M15	
	USB 2.0 Test Fixture: UT-USB20-SQ-HD	
	100M/1000M ETH Test Fixture: UT-GBE-FT	
	Isolation transformer: UT-ISOT	
	Oscilloscope Signal Protocol Demonstration Board: UT-M13X	
Software Options	MSO8000HD-MD2G	Extend the oscilloscope's maximum memory depth to 1 Gpts/CH (full channel) and 2 Gpts/CH (half channel)
	MSO8000HD-AWG	Dual channel 60 MHz function/arbitrary waveform generator
	MSO8000HD-LA	16-channel logic analyzer option
	MSO8000HD-CTSDPHY12	MIPI D-PHY v1.2 Compliance Test Option
	MSO8000HD-CTSUSB20	USB 2.0 Compliance Test Option
	MSO8000HD-CTS1000	1000 BASE-T Ethernet Compliance Test Option
	MSO8000HD-CTS1000T1	1000M BASE - T1 Automotive Ethernet Compliance Test Option
	MSO8000HD-CTS100	100BASE-Tx Ethernet Compliance Test Option
	MSO8000HD-CTS100T1	100M BASE-T1 Automotive Ethernet Compliance Test Option
	MSO8000HD-CTSPCIE2	PCIe GEN2 Compliance Test Option
	MSO8000HD-JITTER	Advanced jitter analysis and Eye diagram
	MSO8000HD-MAT	Matlab Embedded Programming Option
	MSO8000HD-FILTER	Advanced Filter Designer Option
	MSO8000HD-PWR	Advanced power analysis
	MSO8000HD-BND	Upgrade suit(including Advanced Jitter Analysis and Eye Diagram, Protocol Trigger and Analysis)
	MSO8000HD-SMBUS	Embedded Serial Bus Trigger and Analysis Option (SMBus)
	MSO8000HD-SPMI	Power Management Serial Bus Trigger and Analysis Option
	MSO8000HD-PCIe2	PCIe Bus Trigger and Analysis Option(PCIe1.0,2.0)
	MSO8000HD-USB2	USB Bus Trigger and Analysis Option(USB2.0)
	MSO8000HD-NET	Ethernet Bus Analysis Option(10BASE-T, 100BASE-TX)
	MSO8000HD-I3C	Embedded Trigger/Decode Option (I3C)
	MSO8000HD-CANFD	Automotive serial bus trigger and analysis (CAN FD)

Ordering Information

Software Options	MSO8000HD-FLEX	Automotive serial bus trigger and analysis (FlexRay)
	MSO8000HD-SENT	Automotive sensor trigger and analysis (SENT)
	MSO8000HD-PSI5	Automotive Serial Bus Analysis Option (PSI5)
	MSO8000HD-AUDIO	Audio serial bus trigger and analysis (I2S, LJ, RJ, TDM)
	MSO8000HD-AERO	Aerospace serial bus trigger and analysis (including MIL-STD-1553, ARINC 429)
	MSO8000HD-MANCH	Serial Bus Trigger and Analysis Option (Manchester)
	MSO8000HD-8B10B	8b/10b Signal Analysis Option
	MSO8000HD-NRZ	NRZ Signal Analysis Option



MSO8000HD Series

MSO5000HD Series NEW

High Resolution Oscilloscopes



- Analog channel bandwidth: 1GHz/500 MHz/350 MHz
- Real-time sample rate 5 GSa/s
- 12-bit vertical resolution
- 4 analog channels, 16 digital channels
- Memory depth of up to 500 Mpts
- Waveform capture rate is up to 800,000 wfms/s (sequence mode: 1,500,000 wfms/s)
- Versatile testing equipment : Digital oscilloscope, Logic analyzer, Function/arbitrary waveform generator, Spectrum analyzer, Digital voltmeter, Frequency counter, Protocol analyzer, Bode plot analyzer, and Power analyzer
- Uninterrupted hardware real-time waveform recording and analysis of up to 400,000 frames



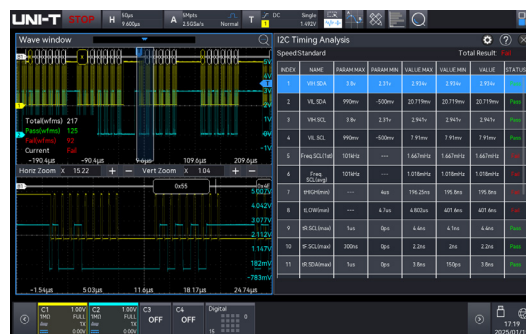
● Versatile Testing Equipment



- MSO5000HD series provides 56 kinds of measurement parameters. The parameter snapshot displays 39 kinds of test items for a single channel measurement

MSO5000HD series high-resolution oscilloscope has the maximum bandwidth of 1 GHz, the maximum sampling rate of 5 GSa/s, and is equipped with 4 analog channels and 16 digital channels, with the memory depth of up to 500 Mpts. MSO5000HD series adopts exclusive Ultra Phosphor 3.0 technology, achieving the waveform capture rate of up to 1,500,000 wfms/s, with 256 levels of gray temperature colors, and features an innovative digital trigger system with high trigger sensitivity and low jitter.

- Enhanced FFT of up to 4M points
- 56 kinds of parameter measurements. adds Tendency chart and Histogram
- Multi-Windows display
- Multi-channel 7-digit hardware frequency counter
- DVM multi-channel RMS measurement: DC, AC RMS and DC+AC RMS
- Protocol triggering and decoding function: RS232/UART, I2C, SPI, I3C, 1-wire, CAN, CAN-FD, CAN-XL, LIN, FlexRay, Audio, MIL-STD-1553B, Manchester, SENT, ARINC429
- Zone trigger for capturing sporadic signals and observing complicated signals.
- 10.1-inch 1280x800 HD capacitive multi-touch screen
- Built-in WebServer



- MSO5000HD timing analysis function can analyze parameters like pulse width, amplitude, edge, setup time, and hold time for signals for I2C, SPI, and CAN. Additionally, it supports exporting conformance test reports.



- 15 kinds of trigger protocol and decoding, which including the field of computer, embedded serial bus, automobile, aerospace and audio



- Enhanced FFT, up to 4 Mpts, 4 channels signal analysis

- 14 types of power supply analysis

Key Specifications	MSO5034HD	MSO5054HD	MSO5104HD
Bandwidth	350 MHz	500 MHz	1 GHz
Channels	4	4	4
Sample rate (analog)	5 GSa/s (interweave mode), 2.5 GSa/s (non-interweave mode)		
Sample rate (digital)	1.25GSa/s		
Memory depth	500Mpts		
Max. Waveform capture rate	≥800,000 wfms/s; ≥1,500,000 wfms/s (sequence mode)		
Vertical resolution	12-bit (ERES is enabled with a maximum of 16-bit)		
Time base scale	500 ps/div to 1 ks/div		
Input impedance	(1 MΩ±2%) (16 pF±3 pF) 50 Ω±1.5%		
Input impedance (digital)	(101 kΩ±1%) (9 pF ± 1 pF)		
Vertical scale	500 μV/div - 10 V/div(1 MΩ) 500 μV/div -1 V/div(50 Ω)		
DC gain accuracy	<5 mV: ±2% full scale, ≥5 mV: ±1.5% full scale		
Waveform record	400,000 frames		
Serial protocol analysis	15 protocol analysis: Standard: RS232/UART, I2C, SPI, CAN, LIN Optional: CAN-FD, FlexRay, Audio, MIL-STD-1553B, Manchester, SENT, ARINC429, 1-WIRE, CAN-XL, I3C		
Auto measurements	56 kinds of parameter, simultaneously display 27 kinds of parameter measurement		
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Histogram		
Arbitrary waveform generator (optional)	2 CH, 50 MHz , 312.5 Msa/s		
Frequency counter	7-digit hardware frequency counter		
Digital voltmeter	4digits,DC/AC RMS/DC+AC RMS		
Advanced analysis function	Power Analysis (Optional), BODE Plot (Optional), Timing analysis(Optional), Limit Mask Testing		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI, 10MHz reference clock IN/OUT		

General Characteristics	
Power	100 V-240 VAC(fluctuate: ±10%), 50 Hz/60 Hz 100 V-120 VAC(fluctuate: ±10%), 400 Hz
Display	10.1 - inch multi-touch capacitive screen, 1280*800(H*V)
Product net weight	3.97 kg
Product size (W×H×D)	361 mm×209 mm×106 mm
Standard quantity per carton	1pcs

Ordering Information		
MSO5000HD Series	MSO5104HD(1 GHz Bw, 12-bit, 4+16 CH, Max. 5 GSa/s, memory depth: 500 Mpts, 800,000 wfm/s, 10.1" Touch screen)	
	MSO5054HD(500 MHz Bw, 12-bit, 4+16 CH, Max. 5 GSa/s, memory depth: 500 Mpts, 800,000 wfm/s, 10.1" Touch screen)	
	MSO5034HD(350 MHz Bw, 12-bit, 4+16 CH, Max. 5 GSa/s, memory depth: 500 Mpts, 800,000 wfm/s, 10.1" Touch screen)	
Standard Accessories	National standard cable x 1	
	USB3.0 cable x 1	
	BNC-BNC direct-through line x 1	
	BNC-red and black alligator connecting wire x 1	
	Passive probe x 4	
Optional Accessories	Active single-ended probe: UT-PA2000, UT-PA1000	
	High Voltage Probe:UT-V23/UT-P21/UT-P20	
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36	
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44:UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B	
	16-channel logic analyzer probe:UT-M15	
	Isolation transformer: UT-ISOT	
Software Options	MSO5000HD-BW3M5T5M	350MHz Upgrade to 500MHz Bandwidth
	MSO5000HD-BW3M5T1G	350MHz Upgrade to 1 GHz Bandwidth
	MSO5000HD-BW5MT1G	500MHz Upgrade to 1 GHz Bandwidth
	MSO5000HD-BND	All serial bus triggering and decoding options
	MSO5000HD-AUTO	Automobile serial bus triggering and decoding option(CAN, CAN-FD, LIN, FlexRay, SENT)
	MSO5000HD-CAN-FD	CAN-FD: Automotive serial bus triggering and decoding
	MSO5000HD-FLEX	FlexRay: Automotive Serial Bus Trigger and decoding
	MSO5000HD-SENT	SENT: Automotive sensor serial bus triggering and decoding option
	MSO5000HD-AUDIO	Audio: Audio serial bus triggering and decoding option
	MSO5000HD-MIL1553	MIL-STD-1553: Aerospace serial bus triggering and decoding
	MSO5000HD-ARINC429	ARINC429: Aerospace serial bus triggering and decoding
	MSO5000HD-MANCH	MANCHESTER: Wireless communication serial bus triggering and decoding
	MSO5000HD-1WIRE	1-WIRE: Triggering and decoding
	MSO5000HD-I3C	I3C: Triggering and decoding
	MSO5000HD-CANXL	CAN-XL: Triggering and decoding
	MSO5000HD-AWG	Dual channel function/arbitrary waveform generator
	MSO5000HD-PWR	Power analysis
	MSO5000HD-TIMING	Time sequence analyzer



MSO5000HD Series

MSO3000HD Series

High Resolution Oscilloscopes

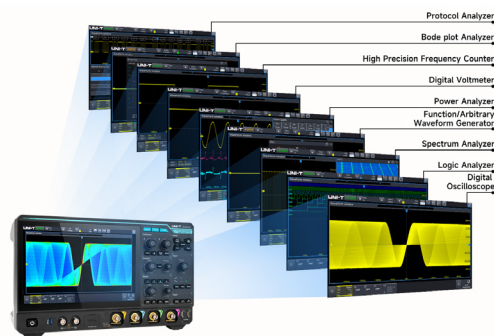
NEW



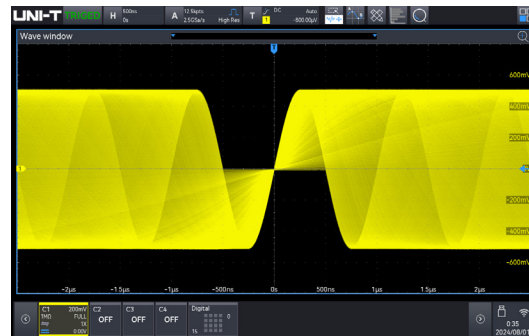
MSO3000HD series high-resolution oscilloscope has the maximum bandwidth of 500 MHz, the maximum Sample rate of 2.5 GSa/s, and is equipped with 4 analog channels and 16 digital channels, with the memory depth of up to 500 Mpts. MSO3000HD series adopts exclusive Ultra Phosphor 3.0 technology, achieving the waveform capture rate of up to 1,500,000 wfms/s, with 256 levels of gray temperature colors, and features an innovative digital trigger system with high trigger sensitivity and low jitter.

- Analog channel bandwidth: 500 MHz/350 MHz/200 MHz
- Real-time sample rate 2.5 GSa/s
- 12-bit vertical resolution
- 4 analog channels, 16 digital channels
- Memory depth of up to 500 Mpts
- Waveform capture rate is up to 500,000 wfms/s (sequence mode: 1,500,000 wfms/s)
- Versatile Testing Equipment : digital oscilloscope, logic analyzer, function/arbitrary waveform generator, spectrum analyzer, digital voltmeter, frequency counter, protocol analyzer, bode plot analyzer and power analyzer.
- Uninterrupted hardware real-time waveform recording and analysis of up to 125,000 frames
- Enhanced FFT of up to 4M points

- Supports ERES (enhanced resolution) of up to 4bit
- 56 kinds of parameter measurements, adds Tendency chart and Histogram
- Multi-Windows display
- Multi-channel 7-digit hardware frequency counter
- DVM multi-channel RMS measurement: DC, AC RMS and DC+AC RMS
- Protocol triggering and decoding function: RS232/UART, I2C, SPI, CAN, CAN-FD, LIN, FlexRay, Audio, MIL-STD-1553B, Manchester, SENT, ARINC429
- Zone trigger for capturing sporadic signals and observing complicated signals.
- 10.1-inch 1280x800 HD capacitive multi-touch screen
- Built-in WebServer



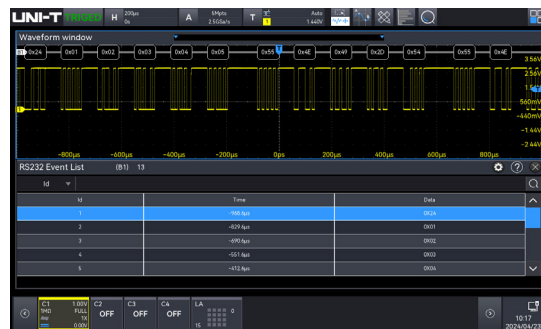
- Versatile Testing Equipment



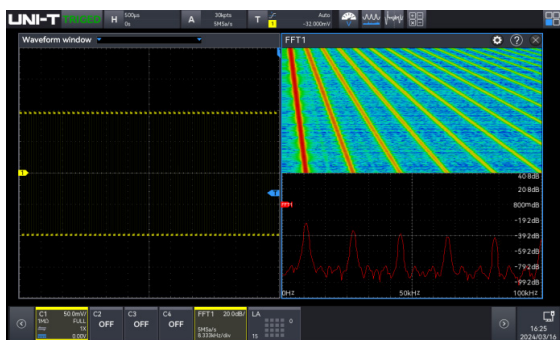
- Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 500,000 wfms/s and 1,500,000 wfms/s in sequence mode.



- MSO3000HD series provides 56 kinds of measurement parameters. The parameter snapshot displays 39 kinds of test items for a single channel measurement



- 12 kinds of trigger protocol and decoding, which including the field of computer, embedded serial bus, automobile, aerospace and audio



● Enhanced FFT, up to 4 Mpts, 4 channels signal analysis



● 14 types of power supply analysis

Key Specifications	MSO3024HD	MSO3034HD	MSO3054HD
Bandwidth	200MHz	350MHz	500MHz
Channels	4	4	4
Sample rate (analog)	2.5 GSa/s (interweave mode), 1.25 GSa/s (non-interweave mode)		
Sample rate (digital)	1.25GSa/s		
Memory depth	500Mpts		
Max. Waveform capture rate	≥500,000 wfms/s; ≥1,500,000 wfms/s (sequence mode)		
Vertical resolution	12-bit (ERES is enabled with a maximum of 16-bit)		
Time base scale	200 MHz (2 ns/div to 1 ks/div)	350 MHz (1 ns/div to 1 ks/div)	500 MHz (500 ps/div to 1 ks/div)
Input impedance	(1 MΩ±2%) (18 pF±3 pF) 50 Ω± 1.5%		
Input impedance (digital)	(101 kΩ±1%)/(9 pF ± 1 pF)		
Vertical scale	500 μV/div - 10 V/div(1 MΩ) 500 μV/div-1 V/div(50 Ω)		
DC gain accuracy	<5 mV: ±2% full scale, ≥5 mV: ±1.5% full scale		
Waveform record	125,000 frames		
Serial protocol analysis	Standard: RS232/UART, I2C, SPI Optional: CAN, CAN-FD, LIN, FlexRay, AUDIO, MIL-STD-1553B, Manchester, SENT, ARINC429		
Auto measurements	56 kinds of parameter, simultaneously display 27 kinds of parameter measurement		
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Histogram		
Arbitrary waveform generator (optional)	2 CH, 50 MHz , 312.5 MSa/s		
Frequency counter	7-digit hardware frequency counter		
Digital voltmeter	4digits, DC/AC RMS/DC+AC RMS		
Advanced analysis function	Power Analysis (Optional), BODE Plot (Optional), Limit Mask Testing		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI, 10MHz reference clock IN/OUT		

General Characteristics

Power	100 V-240 VAC(fluctuate:±10%), 50 Hz/60 Hz, 100 V-120 VAC(fluctuate:±10%), 400 Hz
Display	10.1 - inch multi-touch capacitive screen, 1280*800(H*V)
Product net weight	3.83 kg
Product size (W×H×D)	364 mm×209 mm×106 mm
Standard quantity per carton	1pcs

Ordering Information		
MSO3000HD Series	MSO3054HD(500 MHz,2.5 GSa/s, 4 analog channels)	
	MSO3034HD(350 MHz,2.5 GSa/s, 4 analog channels)	
	MSO3024HD(200 MHz,2.5 GSa/s, 4 analog channels)	
Standard Accessories	National standard cable x 1	
	USB3.0 cable x 1	
	BNC-BNC direct-through line x 1	
	BNC-red and black alligator connecting wire x 1	
	Passive probe (500 MHz/350 MHz/200 MHz) x 4	
Optional Accessories	Active single-ended probe: UT-PA2000, UT-PA1000	
	High Voltage Probe:UT-V23/UT-P21/UT-P20	
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36	
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44,UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B	
	16-channel logic analyzer probe:UT-M15	
	Isolation transformer: UT-ISOT	
Software Options	MSO3000HD-BW2MT3M5	200MHz Upgrade to 350MHz Bandwidth
	MSO3000HD-BW2MT5M	200MHz Upgrade to 500MHz Bandwidth
	MSO3000HD-BW3M5T5M	350MHz Upgrade to 500MHz Bandwidth
	MSO3000HD-BND	All Serial Bus Trigger and Decode Options (including AUTO, Audio, MIL-STD, ARINC, Manchester)
	MSO3000HD-AUTO	Automotive Serial Bus Trigger and Decode Option (CAN, CAN-FD, LIN, FlexRay, SENT)
	MSO3000HD-CAN	Automotive Serial Bus Trigger and Analysis Option (CAN)
	MSO3000HD-CANFD	Automotive Serial Bus Trigger and Analysis Option (CAN-FD)
	MSO3000HD-LIN	Automotive Serial Bus Trigger and Analysis Option (LIN)
	MSO3000HD-FLEX	Automotive Serial Bus Trigger and Analysis Option (FlexRay)
	MSO3000HD-SENT	Automotive Sensor Bus Trigger and Analysis Option (SENT)
	MSO3000HD-AUDIO	Audio Serial Bus Trigger and Analysis Option (I2S, IJ, RJ, TDM)
	MSO3000HD-MIL1553	Aerospace Serial Bus Trigger and Analysis Option (MIL-STD-1553)
	MSO3000HD-ARINC429	Aerospace Serial Bus Trigger and Analysis Option (ARINC429)
	MSO3000HD-MANCH	Serial Bus Trigger and Analysis Option (Manchester)
	MSO3000HD-AWG	Dual 50 MHz Arbitrary Waveform Generator Option (Includes Bode Plot)
	MSO3000HD-PWR	Power Analysis Option



MSO3000HD Series

UPO2000HD Series

High Resolution Oscilloscopes

NEW



- 4CH/2CH
- BW: 200 MHz/100 MHz/70MHz
- Memory depth 100 Mpts/CH
- 12-bit vertical resolution
- Waveform capture rate 250,000 wfms/s (sequential mode: 1,000,000 wfms/s)
- Versatile testing equipment : Digital oscilloscope, Spectrum analyzer, Digital voltmeter, Frequency counter, protocol analyzer, and Power analyzer



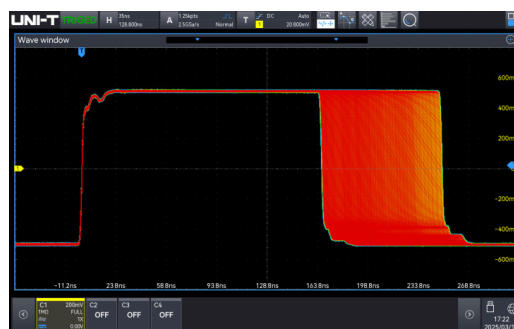
- Versatile Testing Equipment



- UPO2000HD series provides 56 kinds of measurement parameters. The parameter snapshot displays 39 kinds of test items for a single channel measurement

UPO2000HD series high-resolution oscilloscope has the maximum bandwidth of 200 MHz, the maximum sampling rate of 2.5 GSa/s, with the memory depth of up to 100 Mpts. UPO2000HD series adopts exclusive Ultra Phosphor 3.0 technology, achieving the waveform capture rate of up to 1,000,000 wfms/s, with 256 levels of gray temperature colors, and features an innovative digital trigger system with high trigger sensitivity and low jitter. Multiple advanced measurement and analysis functions and rich trigger decoding types. Can be widely used in communication, aerospace, education and many other industries and fields.

- 4 M points enhanced FFT
- Triggering and decoding of 9 protocols as standard
- 56 waveform parameter measurements
- Multi-Windows display
- Zone trigger function
- Ultra Phosphor 3.0 display technology
- 10.1-inch 1280×800 HD capacitive touch
- Supports SCPI programmable instrument standard commands
- Embedded WebServer



- Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 250,000 wfms/s and 1,000,000 wfms/s in sequence mode.



- 9 kinds of trigger protocol and decoding, which including the field of computer, embedded serial bus, automobile, and audio



- Enhanced FFT, up to 4 Mpts, 4 channels signal analysis

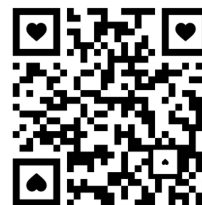


- 12 types of power supply analysis

Technical Specifications	UPO2072HD	UPO2074HD	UPO2102HD	UPO2104HD	UPO2202HD	UPO2204HD
Bandwidth	70 MHz	70 MHz	100 MHz	100 MHz	200 MHz	200 MHz
Channels	2	4	2	4	2	4
Sample rate (analog)	2.5 GSa/s (single channel:), 1.25 GSa/s (dual channel), 625MSa/s (four channels)					
Memory depth	100Mpts/CH					
Max. Waveform capture rate	≥250,000 wfms/s; ≥1,000,000 wfms/s (sequence mode)					
Vertical resolution	12-bit (ERES is enabled with a maximum of 16-bit)					
Time base scale	2 ns/div to 1000 s/div					
Input impedance	(1 MΩ±2%) (18 pF±2 pF)					
Vertical scale	500 μV/div to 10 V/div (1 MΩ)					
DC gain accuracy	<5 mV: ±2% full scale, ≥ 5 mV: ±1.5% full scale					
Waveform record	120,000 frames					
Serial protocol analysis	RS232/UART, I2C, SPI, CAN, CAN-FD, LIN, FlexRay, AUDIO, SENT					
Auto measurements	56 kinds of parameter, simultaneously display 27 kinds of parameter measurement					
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Histogram					
Frequency counter	7-digit hardware frequency counter					
Digital voltmeter	4digits,DC/AC RMS/DC+AC RMS					
Advanced analysis function	Power Analysis (Optional), Limit Mask Testing					
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), HDMI, 10MHz reference clock IN/OUT					

General Characteristics	
Power	100 V~240 VAC(fluctuate:±10%),50 Hz/60 Hz 100 V~120 VAC(fluctuate:±10%),400 Hz
Display	10.1 - inch multi-touch capacitive screen, 1280*800(H*V)
Product net weight	2.92 kg
Product size (W×H×D)	361 mm×209 mm×106 mm
Standard quantity per carton	1pcs

Ordering Information		
UPO2000HD Series	UPO2204HD:200 MHz Bw, 12-bit, 4 CH, Max. 2.5 GSa/s, memory depth: 100 Mpts/CH, 250,000 wfm/s, 10.1" Touch screen	
	UPO2202HD:200 MHz Bw, 12-bit, 2 CH, Max. 2.5 GSa/s, memory depth: 100 Mpts/CH, 250,000 wfm/s, 10.1" Touch screen	
	UPO2104HD:100 MHz Bw, 12-bit, 4 CH, Max. 2.5 GSa/s, memory depth: 100 Mpts/CH, 250,000 wfm/s, 10.1" Touch screen	
	UPO2102HD:100 MHz Bw, 12-bit, 2 CH, Max. 2.5 GSa/s, memory depth: 100 Mpts/CH, 250,000 wfm/s, 10.1" Touch screen	
	UPO2074HD: 70 MHz Bw, 12bit, 4 CH, Max. 2.5 GSa/s, memory depth: 100 Mpts/CH, 250,000 wfm/s, 10.1" Touch screen	
	UPO2072HD: 70 MHz Bw, 12bit, 2 CH, Max. 2.5 GSa/s, memory depth: 100 Mpts/CH, 250,000 wfm/s, 10.1" Touch screen	
Standard Accessories	National standard cable x 1	
	USB3.0 cable x 1	
	BNC-BNC direct-through line x 1	
	BNC-red and black alligator connecting wire x 1	
	Passive probe (200 MHz/100 MHz) 4/2 pcs	
Optional Accessories	Passive high resistance probe: P04/P05	
	High Voltage Probe:UT-V23/UT-P21/UT-P20	
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36	
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44/UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B	
Software Options	UPO2000HD-BW1MT2M	100MHz Upgrade to 200MHz Bandwidth
	UPO2000HD-BW7T2M	70MHz Upgrade to 200MHz Bandwidth
	UPO2000HD-BW7T1M	70MHz Upgrade to 100MHz Bandwidth
	UPO2000HD-PWR	Power analysis



UPO2000HD Series

MSO1000HD Series NEW

High Resolution Oscilloscopes



- Analog channel bandwidth: 250 MHz/150 MHz
- Real-time sample rate 2.5 GSa/s
- 12-bit vertical resolution
- 4 analog channels, 16 digital channels
- Memory depth of up to 100 Mpts
- Waveform capture rate is up to 200,000 wfms/s (sequence mode: 1,000,000 wfms/s)
- Versatile testing equipment : Digital oscilloscope, Logic analyzer, Function/arbitrary waveform generator, Spectrum analyzer, Digital voltmeter, Frequency counter, Protocol analyzer, Bode plot analyzer, and Power analyzer



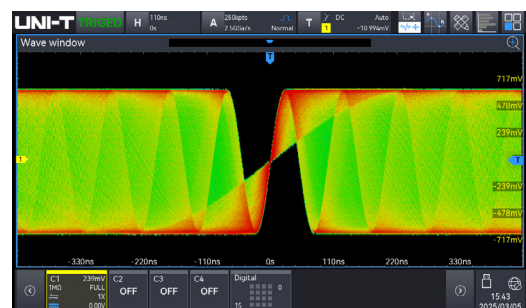
- Versatile Testing Equipment



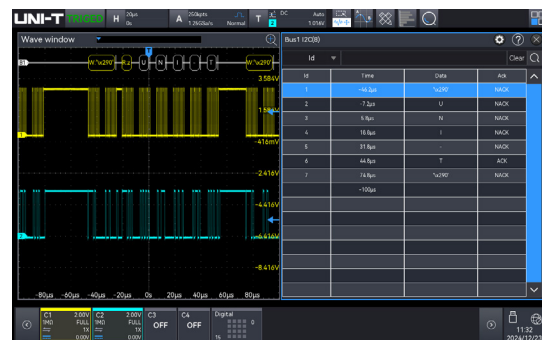
- MSO1000HD series provides 56 kinds of measurement parameters. The parameter snapshot displays 39 kinds of test items for a single channel measurement

MSO1000HD series high-resolution oscilloscope has the maximum bandwidth of 250 MHz, the maximum sampling rate of 2.5 GSa/s, and is equipped with 4 analog channels and 16 digital channels, with the memory depth of up to 100 Mpts. MSO1000HD series adopts exclusive Ultra Phosphor 3.0 technology, achieving the waveform capture rate of up to 200,000 wfms/s, with 256 levels of gray temperature colors, and features an innovative digital trigger system with high trigger sensitivity and low jitter.

- Uninterrupted hardware real-time waveform recording and analysis of up to 100,000 frames
- Enhanced FFT of up to 1M points
- 56 kinds of parameter measurements. adds Tendency chart and Histogram
- Multi-channel 7-digit hardware frequency counter
- DVM multi-channel RMS measurement: DC, AC RMS and DC+ACRMS
- Protocol triggering and decoding function: RS232/UART, I2C, SPI, CAN, CAN-FD, LIN, Audio
- Zone trigger for capturing sporadic signals and observing complicated signals.
- 7-inch capacitive multi-touch screen
- Built-in WebServer



- Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 200,000 wfms/s and 1,000,000 wfms/s in sequence mode.



- 7 kinds of trigger protocol and decoding, which including the field of computer, embedded serial bus, automobile, aerospace and audio



- Enhanced FFT, up to 1 Mpts, 4 channels signal analysis



- Multiple power analysis functions

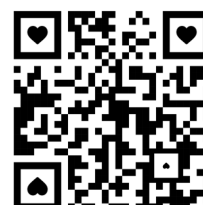
Key Specifications	MSO1154HD	MSO1154HD-S	MSO1254HD	MSO1254HD-S
BandwidthB6:B26	150 MHz	150 MHz	250 MHz	250 MHz
Channels	4	4	4	4
Sample rate (analog)	2.5 GSa/s (Single channel:), 1.25 GSa/s (Dual channel), 625 MSa/s (four channels)			
Sample rate (digital)	1.25GSa/s			
Memory depth	100Mpts			
Max. Waveform capture rate	≥200,000 wfms/s; ≥1,000,000 wfms/s (sequence mode)			
Vertical resolution	12-bit (ERES is enabled with a maximum of 16-bit)			
Time base scale	500 ps/div to 1 ks/div			
Input impedance	(1 MΩ±2%) (17 pF±2 pF)			
Input impedance (digital)	(101 kΩ±1%) (9 pF ± 1 pF)			
Vertical scale	500 μV/div ~ 10 V/div			
DC gain accuracy	<5 mV: ±2% full scale, ≥5 mV: ±1.5% full scale			
Waveform record	100,000 frames			
Serial protocol analysis	Standard:RS232/UART, I2C, SPI,CAN, CAN-FD, LIN, Audio			
Auto measurements	56 kinds of parameter, simultaneously display 21 kinds of parameter measurement			
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Histogram			
Arbitrary waveform generator	No	1 CH, 25 MHz , 200 MSa/s	No	1 CH, 25 MHz , 200 MSa/s
Frequency counter	7-digit hardware frequency counter			
Digital voltmeter	4digits,DC/AC RMS/DC+AC RMS			
Advanced analysis function	Power Analysis, BODE Plot, Limit Mask Testing			
Standard interfaces	USB Host, USB Device, LAN, AUX Out, Gen Out, HDMI			

General Characteristics

Power	Power is greater than or equal to 12 V/3 A Supports Type-C or a portable charger with PD protocol
Display	7 - inch multi-touch capacitive screen, 1024*600(H*V)
Product net weight	1.56 kg
Product size (W×H×D)	282 mm×175 mm×49 mm
Standard quantity per carton	1/4 pcs

Ordering Information

MSO1000HD Series	MSO1254HD-S(250MHz Bw, 12-bit, 4+16 CH, MSO standard, 1 CH Gen, Max. 2.5 GSa/s, memory depth: 100 Mpts, 200,000 wfm/s, 7" Touch screen)
	MSO1254HD(250MHz Bw, 12-bit, 4+16 CH, MSO standard, Max. 2.5 GSa/s, memory depth: 100 Mpts, 200,000 wfm/s, 7" Touch screen)
	MSO1154HD-S(150MHz Bw, 12-bit, 4+16 CH, MSO standard, 1 CH Gen, Max. 2.5 GSa/s, memory depth: 100 Mpts, 200,000 wfm/s, 7" Touch screen)
	MSO1154HD(150MHz Bw, 12-bit, 4+16 CH, MSO standard, Max. 2.5 GSa/s, memory depth: 100 Mpts, 200,000 wfm/s, 7" Touch screen)
Standard Accessories	National standard cable x 1
	Type-C Adapter x1
	Protective ground wire
	USB2.0 cable x 1
	BNC-BNC direct-through line x 1
	Passive probe x 4
Optional Accessories	Passive probe: UT-P05 (200MHz; 10X), UT-P06 (300MHz; 10X)
	High Voltage Probe:UT-V23/UT-P21/UT-P20
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44,UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B
	16-channel logic analyzer probe:UT-M26
	Isolation transformer: UT-ISOT



MSO1000HD Series

UPO1000HD Series NEW

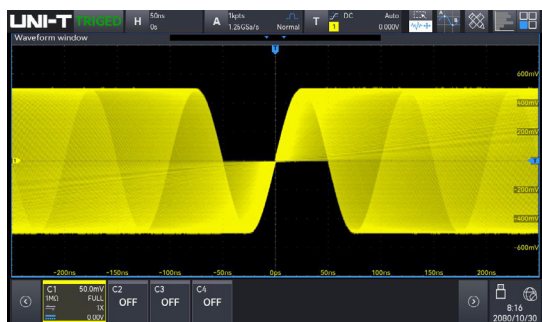
High Resolution Oscilloscopes



- Analog channel bandwidth: 150 MHz/80 MHz
- Real-time sample rate 1.25 GSa/s
- 12-bit vertical resolution
- 2/4 analog channels
- Memory depth of up to 100 Mpts
- Waveform capture rate is up to 100,000 wfms/s (sequence mode: 500,000 wfms/s)
- Versatile testing equipment : Digital oscilloscope, Spectrum analyzer, Digital voltmeter, Frequency counter, Protocol analyzer, and Power analyzer
- Uninterrupted hardware real-time waveform recording and analysis of up to 100,000 frames



- Versatile Testing Equipment



- Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 100,000 wfms/s and 500,000 wfms/s in sequence mode.

High-Resolution UPO1000HD series high-resolution oscilloscope has the maximum bandwidth of 150 MHz, the maximum sampling rate of 1.25 GSa/s, and is equipped with 4/2 analog channels, with the memory depth of up to 100 Mpts. High-Resolution UPO1000HD series adopts exclusive Ultra Phosphor 3.0 technology, achieving the waveform capture rate of up to 100,000 wfms/s, with 256 levels of gray temperature colors, and features an innovative digital trigger system with high trigger sensitivity and low jitter.

- Enhanced FFT of up to 1M points
- 56 kinds of parameter measurements. adds histogram and line graph display
- Multi-channel 7-digit hardware frequency counter
- DVM multi-channel RMS measurement: DC, AC RMS and DC+ACRMS
- Protocol triggering and decoding function: RS232/UART, I2C, SPI, CAN, LIN
- Zone trigger for capturing sporadic signals and observing complicated signals
- Zone trigger for capturing sporadic signals and observing complicated signals.
- 7-inch capacitive multi-touch screen
- Built-in WebServer



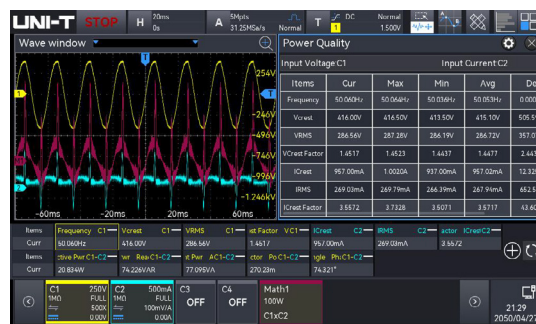
- Brand New Appearance Design
- Double-sided slim design for a modern and compact factor
Dimensions: 28.2cm×17.5cm×4.9cm



- UPO1000HD series provides 56 kinds of measurement parameters. The parameter snapshot displays 39 kinds of test items for a single channel measurement



- 5 kinds of trigger protocol and decoding, which including the field of computer, embedded serial bus, automobile, aerospace and audio



- Multiple power analysis functions

Technical Specifications	UPO1082HD	UPO1084HD	UPO1152HD	UPO1154HD
Bandwidth	80 MHz	80 MHz	150 MHz	150 MHz
Channels	2	4	2	4
Sample rate (analog)	1.25 GSa/s (single channel), 625 MSa/s (dual channels), 312.5 MSa/s (four channels)			
Memory depth	100Mpts			
Max. Waveform capture rate	≥100,000 wfms/s; ≥500,000 wfms/s (sequence mode)			
Vertical resolution	12-bit			
Time base scale	5 ns/div to 1000 s/div(BW 80 MHz) 2 ns/div to 1000 s/div(BW 150 MHz)			
Input impedance	(1 MΩ±2%) (17 pF±2 pF)			
Vertical scale	500 μV/div ~ 10 V/div			
DC gain accuracy	<5 mV: ±2% full scale, ≥5 mV: ±1.5% full scale			
Waveform record	100,000 frames			
Serial protocol analysis	Standard: RS232/UART, I2C, SPI, CAN, LIN			
Auto measurements	56 kinds of parameter, simultaneously display 21 kinds of parameter measurement			
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Bar Chart			
Frequency counter	6-bit hardware frequency counter			
Digital voltmeter	4digits: DC/AC RMS/DC+AC RMS			
Advanced analysis function	Power Analysis, Limit Mask Testing			
Standard interfaces	USB Host, USB Device, LAN, AUX Out, HDMI			

General Characteristics

Power	Power is greater than or equal to 12 V/3 A Supports Type-C or a portable charger with PD protocol
Display	7 - inch multi-touch capacitive screen, 1024*600(H*V)
Product net weight	1.56 kg
Product size (W×H×D)	282 mm×175 mm×49 mm
Standard quantity per carton	1/4 pcs

Ordering Information

UPO1000HD Series	UPO1154HD(150 MHz BW, 12-bit, 4 CH, Max. 1.25 GSa/s, memory depth: 100 Mpts, 100,000 wfm/s, 7" Touch screen)
	UPO1152HD(150 MHz BW, 12-bit, 2 CH, Max. 1.25 GSa/s, memory depth: 100 Mpts, 100,000 wfm/s, 7" Touch screen)
	UPO1084HD(80 MHz BW, 12-bit, 4 CH, Max. 1.25 GSa/s, memory depth: 100 Mpts, 100,000 wfm/s, 7" Touch screen)
	UPO1082HD(80 MHz BW, 12-bit, 2 CH, Max. 1.25 GSa/s, memory depth: 100 Mpts, 100,000 wfm/s, 7" Touch screen)
Standard Accessories	National standard cable x 1
	Type-C Adapter x1
	Protective ground wire
	USB2.0 cable x 1
	BNC-BNC direct-through line x 1
	Passive probe x 4/2
Optional Accessories	Passive probe: UT-P05 (200MHz; 10X), UT-P04 (100MHz; 10X)
	High Voltage Probe: UT-V23/UT-P21/UT-P20
	High Voltage Differential Probe: UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe: UT-P40/UT-P41/UT-P42/UT-P43/UT-P44, UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B



UPO1000HD Series

Digital Oscilloscopes

Selection Guide

Series	Model	Channels	Memory Depth	Sample Rate	Bandwidth											
					2 GHz	1 GHz	500 MHz	350 MHz	300 MHz	200 MHz	150 MHz	100 MHz	70 MHz	60 MHz	50 MHz	25 MHz
MSO7000X	MSO7204X	4+16Digit	1Gpts	10GSa/s	•											
	MSO7104X					•										
UPO7000L	UPO7204L	4	1Gpts	10GSa/s	•											
	UPO7104L					•										
MSO3000X	MSO3054X	4+16Digit	500Mpts	5GSa/s			•									
	MSO3034X						•									
MSO/UPO3000E	MSO/UPO3504E	4+16Digit/4	250Mpts	2.5GSa/s			•									
	MSO/UPO3502E	2+16Digit/2					•									
	MSO/UPO3352E						•									
	MSO/UPO3354E	4+16Digit/4					•									
	MSO3504E-S	4+16Digit					•									
	MSO3354E-S						•									
MSO2000X	MSO2304X	4+16Digit	100Mpts	5GSa/s					•							
	MSO2204X							•								
	MSO2104X									•						
MSO/UPO2000	MSO/UPO2204	4+16Digit/4	56Mpts	2GSa/s						•						
	MSO/UPO2202	2+16Digit/2						•								
	MSO2204-S	4+16Digit						•								
	MSO2202-S	2+16Digit						•								
	MSO/UPO2104	4+16Digit/4								•						
	MSO/UPO2102	2+16Digit/2									•					
	MSO2104-S	4+16Digit									•					
	MSO2102-S	2+16Digit										•				
UPO1000	UPO1204	4	56Mpts	2GSa/s						•						
	UPO1104									•						
	UPO1054														•	
UPO1002	UPO1202	2	56Mpts	1GSa/s						•						
	UPO1102										•					
UTD2000CEX+	UTD2202CEX+	2	64Kpts	1GSa/s						•						
	UTD2102CEX+										•					
	UTD2052CEX+														•	
UTD2000CL+/CL	UTD2152CL	2	64Kpts	500MSa/s							•					
	UTD2102CL+											•				
	UTD2052CL+														•	
	UTD2072CL												•			
UTD1000C	UTD1102C	2	7.5Kpts	500MSa/s								•				
UTD1000L	UTD1050DL	2	12Kpts	250MSa/s											•	
	UTD1025DL															•
	UTD1050CL	1		200MSa/s											•	
	UTD1025CL															•

MSO7000X Series

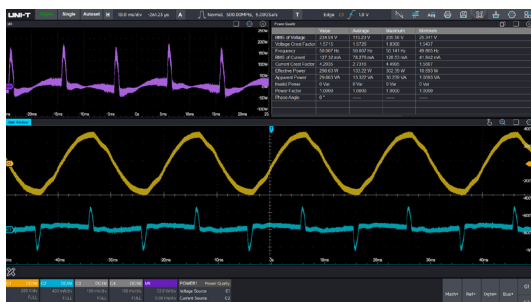
Digital Oscilloscopes



- Analog channel bandwidth: 1G/2GHz
- Maximum sample rate: 10GSa/s
- Maximum memory depth: 1Gpts (standard configuration)
- Waveform capture rate: 800,000wfms/s (UltraAcq®), 2,000,000wfms/s (Sequence mode)
- 11 kinds of serial protocol analysis
- One machine with multiple functions: Digital oscilloscope, Logic analyzer, Spectrum analyzer, Function/arbitrary waveform generator, Digital voltmeter, Frequency counter and Protocol analyzer
- Up to 58 kinds of parameter measurement, support histogram, tracking, trend graph



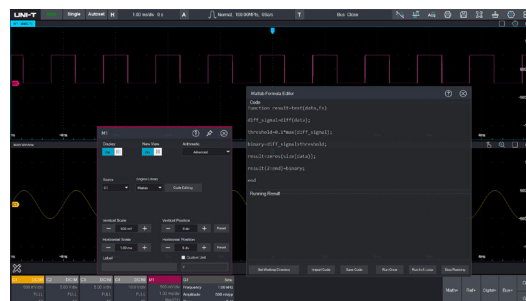
- Jitter analysis & eye diagram, Efficient measurement of clock and serial bus.



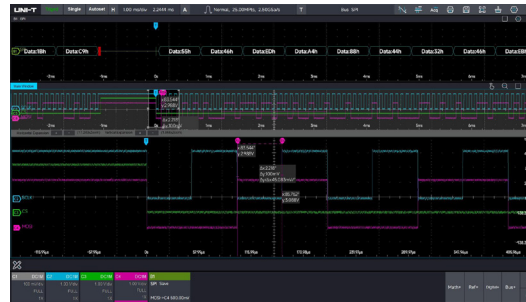
- Power Measurement & Analysis, Provide a full range of analytical tools and assessment results

MSO7000X series is a new mixed-signal oscilloscope with bandwidth up to 2 GHz and sample rate up to 10 GSa/s. It adopts the unique UltraAcq® technology to enhance the waveform capture rate up to 800,000 wfms/s. It supports a variety of advanced measurement and analysis functions, and up to 58 kinds of parameter automatic measurements, which greatly meets the measurement needs of engineers. Equipped with Win10 64-bit operating system, providing users with a stable and scalable system platform. Adopts 15.6-inch high-definition capacitive touch screen, supporting multi-window split-screen display and multiple gesture touch control. Can be widely used in communications, aerospace, education and many other industries and fields.

- Advanced measurement and analysis functions: Power analysis (optional), Jitter analysis & Eye diagram (optional), Mask and limit testing, Histogram, etc.
- Equipped with Win10 64bit operating system
- 15.6-inch high-definition touch screen
- Embedded WebServer, easy to achieve cross-platform access
- Support SCPI standard instrument programming commands
- Supports MATLAB embedded programming and data presentation (optional)



- Support MATLAB embedded programming, Operational results are rendered directly to the oscilloscope window.

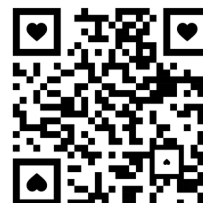


- Up to 11 serial protocols analysis

Key Specifications	MSO7104X	MSO7204X
Bandwidth	1GHz	2GHz
Channels	4	
Sample rate (analog)	10GSa/s(single channel), 5GSa/s (dual channel), 2.5GSa/s (full channel)	
Sample rate (digital)	1.25GS/s	
Memory depth	1Gpts(single channel), 500Mpts(dual channel), 250Mpts(full channel)	
Max. Waveform capture rate	≥800,000 wfms/s(UltraAcq®); ≥2,000,000 wfms/s (sequence mode)	
Time base scale	100ps/div-1000s/div	
Input impedance	1MΩ ± 1% (15±3 pF), 50Ω ± 2%	
Input impedance (digital)	100kΩ±2%	
Vertical scale	1mV/div-10 V/div (1 MΩ); 1mV/div-1V/div (50Ω)	
DC gain accuracy	50Ω:±1.5%(≤5mV/div: ±2.0%)±1% of FS(≤5mV/div:±1.5% of FS) 1MΩ:±1.2%(≤5mV/div: ±1.5%)±1% of FS(≤5mV/Div : ±1.2% of FS)	
Serial protocol analysis	Standard configuration: RS-232/422/485/UART, SPI, I2C, CAN, LIN; Optional: CAN-FD, SENT, FlexRay, AudioBus (I2S\LJ\RJ\TDM), MIL STD 1553, ARINC429	
Waveform math	Simultaneous support for 8 math waveforms; Enhanced FFT, basic operations, filter, advanced function editor, MATLAB embedded programming operations and render, enhanced resolution; Histograms, Area histograms, Trend chart, Trace	
Auto measurements	>58 , support for parameter snapshots; support for statistical analysis, histograms, trend charts and tracking chart analysis	
Number of measurements	Display 10 measurements at the same time	
Measurement statistics	Current value, Average value, Maximum value, Minimum value, Standard deviation, Measure the count, Histogram, Trend chart, Trace	
Arbitrary waveform generator (optional)	2CH, 60MHz , 625MSa/s	
Frequency counter	8-bit hardware frequency counter	
Digital voltmeter	4digits,DC/AC RMS/DC+AC RMS	
Advanced analysis function	Power Analysis (Optional), Jitter and Eye Diagram Analysis (Optional), Limit Mask Testing, Sequence Mode	
Standard interfaces	USB 3.0 Host (4 ports), USB 3.0 Device (1 port, USBTMC Compliant), LAN (10/100/1000Mb/s Base-T Ethernet; LXI Compliant), HDMI, Aux In (Trig In, AWG external trigger input), Aux Out (Trig Out, Pass/Fail, AWG trigger output), 10MHz REF In\Out	

General Characteristics	
Power	100V-240V ACrms (±10%), 50Hz/60Hz
Display	15.6 inch FHD capacitive touch screen, 1920*1080(H*V)
Product net weight	10.5kg
Product size (W×H×D)	445mm×302mm×200mm
Standard quantity per carton	1pcs

Ordering Information	
MSO7000X Series	MSO7204X :2GHz, 10GS/s, 1Gpts, 4CH digital oscilloscope
	MSO7104X :1GHz, 10GS/s, 1Gpts, 4CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D30: USB3.0 data cable
	UT-P07A:Passive probe x 4 (1 x, 10 x switchable, 500MHz)
	UT-L45: BNC-BNC straight-through cable x2
	Front panel protective cover x1
Optional Accessories	Active single-ended probe: UT-PA2000, UT-PA1000
	Passive high-impedance probe (1X: 8MHz; 10X: 500MHz): UT-P07A
	High Voltage Probe:UT-V23/UT-P21/UT-P20
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44,UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B
	16-channel logic analyzer probe:UT-M15
	USB 2.0 Test Fixture: UT-USB20-SQ-HD
	100M/1000M ETH Test Fixture: UT-GBE-FT
	Oscilloscope Signal Protocol Demonstration Board: UT-M13X
	Isolation transformer: UT-ISOT
Software Options	MSO7000X-AWG: Dual-channel 60 MHz arbitrary wave generator Option
	MSO7000X-LA: 16-channel logic analyzer option and probe
	MSO7000X-JITTER: Advanced Jitter and Eye Diagram Analysis Option
	MSO7000X-PWR: Advanced power analysis
	MSO7000X-CTSUSB20: USB 2.0 Compliance Test Option
	MSO7000X-CTS1000: 1000M BASE-Tx Ethernet Compliance Test Option
	MSO7000X-CTS1000T1: 1000M BASE - T1 Automotive Ethernet Compliance Test Option
	MSO7000X-CTS100: 100M BASE-Tx Ethernet Compliance Test Option
	MSO7000X-CTS100T1: 100M BASE-T1 Automotive Ethernet Compliance Test Option
	MSO7000X-MAT: Matlab Embedded Programming Option
	MSO7000X-FILTER: Advanced Filter Designer Option
	MSO7000X-CANFD: Automotive Serial Bus Triggering and Analysis (CAN FD)
	MSO7000X-FLEX: Automotive serial bus trigger and analysis (FlexRay)
	MSO7000X-SENT: Automotive sensor bus trigger and annalysis (SENT)
	MSO7000X-AUDIO: Audio serial bus triggering and analysis (I2S, LJ, RJ, TDM)
	MSO7000X-AERO: Aerospace Serial Bus Triggering and Analysis (MIL-STD-1553, ARINC 429)
	MSO7000X-BND: Upgrade kit (JITTER, PWR, CANFD, FLEX, SENT, AUDIO, AERO)



MSO7000X Series

UPO7000L Series

Digital Oscilloscopes

NEW



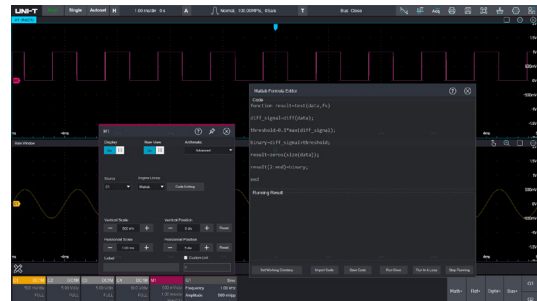
UPO7000L series digital oscilloscopes are slim and compact, 1U height is more suitable for multi-machine system integration and remote system control. Supports multi-mechanical synchronous triggering, up to 128 oscilloscopes. The single machine integrates 4 analog channels, 1 external trigger channel and 1 function/arbitrary waveform generator channel. You can access an external touch display for a silky smooth gesture touch experience like the MSO7000X. Multi-computer integrated rack mounting kit is available. No matter what the application scenario, the UPO7000L can handle it with ease.

- Analog channel bandwidth: 1G/2GHz
- Maximum sample rate: 10GSa/s
- Maximum memory depth: 1Gpts (standard configuration)
- Waveform capture rate: 600,000wfms/s (UltraAcq®), 2,000,000wfms/s (Sequence mode)
- 11 kinds of serial protocol analysis
- One machine with multiple functions: Digital oscilloscope, Spectrum analyzer, Function/arbitrary waveform generator, Digital voltmeter, Frequency counter and Protocol analyzer
- Up to 48 kinds of parameter measurement, support histogram, tracking, trend graph

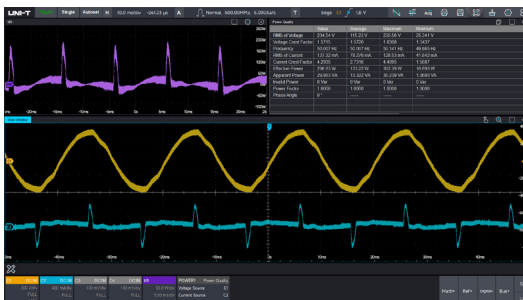
- Advanced measurement and analysis functions: Power analysis (optional), Jitter analysis & Eye diagram (optional), Mask and limit testing, Histogram, etc.
- Embedded WebServer, easy to achieve cross-platform access
- Support SCPI standard instrument programming commands
- Supports MATLAB embedded programming and data presentation (optional)



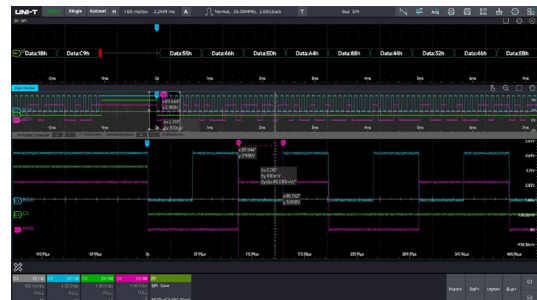
- Jitter analysis & eye diagram, Efficient measurement of clock and serial bus.



- Support MATLAB embedded programming, Operational results are rendered directly to the oscilloscope window.



- Power Measurement & Analysis, Provide a full range of analytical tools and assessment results



- Up to 11 serial protocols analysis

Key Specifications	UPO7104L	UPO7204L
Bandwidth	1GHz	2GHz
Channels	4	4
Sample Rate	10GSa/s(single channel), 5GSa/s (dual channel), 2.5GSa/s (full channel)	
Memory depth	1Gpts(single channel), 500Mpts(dual channel), 250Mpts(full channel)	
Max. Waveform capture rate	≥600,000 wfms/s(UltraAcq®); ≥2,000,000 wfms/s (sequence mode)	
Time base scale	100ps/div-1000s/div	
Input impedance	1MΩ ± 1% (15±3 pF), 50Ω ± 2%	
Vertical scale	1mV/div-10 V/div (1 MΩ); 1mV/div-1V/div (50Ω)	
DC gain accuracy	50Ω:±1.5%(≤5mV/div: ±2.0%)±1% of FS(≤5mV/div:±1.5% of FS) 1MΩ:±1.2%(≤5mV/div: ±1.5%)±1% of FS(≤5mV/Div: ±1.2% of FS)	
Serial protocol analysis	Standard configuration: RS-232/422/485/UART, SPI, I2C, CAN, LIN; Optional: CAN-FD, SENT, FlexRay, AudioBus (I2S\LJ\RJ\TDM), MIL STD 1553, ARINC429	
Waveform math	Simultaneous support for 8 math waveforms; Enhanced FFT, basic operations, filter, advanced function editor, MATLAB embedded programming operations and render, enhanced resolution; Histograms, Area histograms, Trend chart, Trace	
Auto measurements	>48 , support for parameter snapshots; support for statistical analysis, histograms, trend charts and tracking chart analysis	
Number of measurements	Display 10 measurements at the same time	
Measurement statistics	Current value, Average value, Maximum value, Minimum value, Standard deviation, Measure the count, Histogram, Trend chart, Trace	
Arbitrary waveform generator (optional)	1CH, 60MHz , 625MSa/s	
Frequency counter	8-bit hardware frequency counter	
Digital voltmeter	4-digit,DC/AC RMS/DC+AC RMS	
Advanced analysis function	Power Analysis (Optional), Jitter and Eye Diagram Analysis (Optional), Limit Mask Testing, Sequence Mode	
Standard interfaces	USB Host ×4, USB Device ×1, LAN (10/100/1000Mb/s)×2, HDMI, Aux Out (Trig Out, Pass/Fail, AWG trigger output), 10MHz REF In\Out, Audio interface	

General Characteristics	
Power	100V-240V ACrms (±10%), 50Hz/60Hz
Product net weight	3.5kg
Product size (W×H×D)	214mm×43mm×500mm
Standard quantity per carton	1pcs

Ordering Information	
UPO7000L Series	UPO7204L : 2GHz, 10GS/s, 1Gpts, 4CH digital oscilloscope
	UPO7104L : 1GHz, 10GS/s, 1Gpts, 4CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	USB2.0 data cable
	UT-P07: Passive probe x 4 (1 x, 10 x switchable, 500MHz)
	UT-L45: BNC-BNC straight-through cable x2
Optional Accessories	Active single-ended probe (2GHz; 10X): UT-PA2000
	Active single-ended probe (1GHz; 10X): UT-PA1000
	Passive high-impedance probe (1X: 8MHz; 10X: 500MHz): UT-P07A
	High Voltage Probe:UT-V23/UT-P21/UT-P20
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44,UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B
	Isolation transformer for Bode plot application (Hardware):UT-ISOT
Software Options	UPO7000L-AWG: Single channel 60 MHz function/arbitrary waveform generator
	UPO7000L-JITTER: Advanced Jitter analysis and Eye diagram
	UPO7000L-PWR: Advanced Power Analysis
	UPO7000L-MAT: Matlab Embedded Programming Option
	UPO7000L-FILTER: Advanced Filter Designer Option
	UPO7000L-CANFD: Automotive Serial Bus Triggering and Analysis (CAN FD)
	UPO7000L-FLEX: Automotive serial bus trigger and analysis (FlexRay)
	UPO7000L-SENT: Automotive sensor bus trigger and annalysis (SENT)
	UPO7000L-AUDIO: Audio serial bus triggering and analysis (I2S, LJ, RJ, TDM)
	UPO7000L-MAT: Matlab Embedded Programming Option
	UPO7000L-FILTER: Advanced Filter Designer Option
	UPO7000L-AREO: Aerospace serial bus trigger and analysis(including MIL-STD-1553, ARINC 429)
	UPO7000L-BND: Upgrade suit(including Advanced Jitter Analysis and Eye Diagram, Protocol Trigger and Analysis)



UPO7000L Series

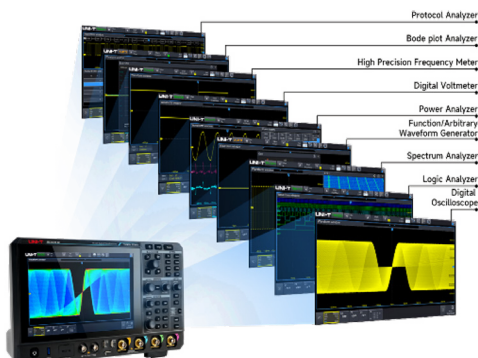
MSO3000X Series

Digital Oscilloscopes

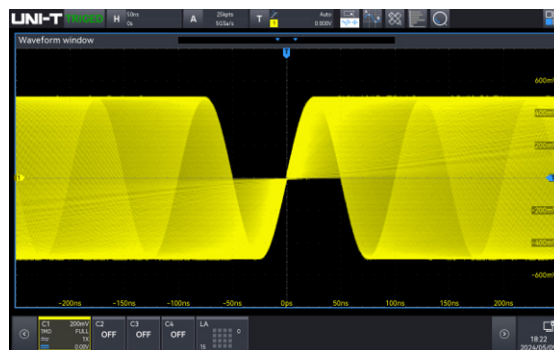


MSO3000X series mixed signal oscilloscope with the maximum bandwidth of 500 MHz, maximum Sample rate of 5 GSa/s and equipped with 4 analog channels and 16 digital channels, the memory depth up to 500 Mpts. MSO3000X has unique Ultra Phosphor 3.0 technology, the waveform capture rate is up to 2,000,000 wfms/s, innovative digital trigger system with high trigger sensitivity and low jitter. This oscilloscope supports multiple advanced triggers, serial bus trigger and decoding, and supports the advanced sampling and analysis mode of spectrum analyzing, power analysis, histogram, waveform recording, enhanced resolution (ERES), hardware acceleration template testing, Search and Navigate. MSO3000X series adopts 10.1 - inch capacitive touch screen that supports multiple gestures for common waveform operations, and combined with multiple one-touch keys on the front panel, this greatly optimizes the efficiency of oscilloscope operation and improves the user experience.

- 4CH+16MSO
- BW: 500MHz/350MHz
- Memory depth 500Mpts
- Waveform capture rate 800,000 wfms/s (sequention mode: 2,000,000 wfms/s)
- Versatile Testing Equipment: Digital oscilloscope, Logic analyzer, Function/arbitrary waveform generator, Spectrum analyzer, Digital voltmeter, Frequency counter, protocol analyzer, Bode plot analyzer, and Power analyzer
- Parameter measurement statistics add Histogram and Trend chart



- Versatile Testing Equipment



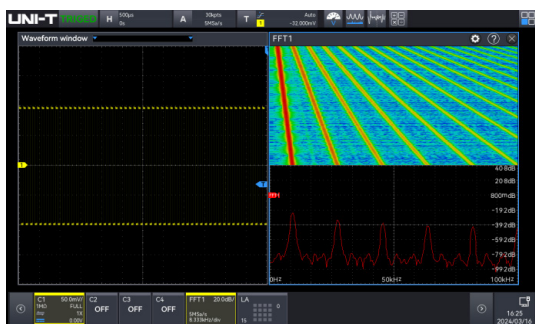
- Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 800,000 wfms/s and 2000,000 wfms/s in sequence mode.



- MSO3000X series provides 56 kinds of measurement parameters. The parameter snapshot displays 39 kinds of test items for a single channel measurement



- 12 kinds of trigger protocol and decoding, which including the field of computer, embedded serial bus, automobile, aerospace and audio



● Enhanced FFT, up to 4 Mpts, 4 channels signal analysis



● 12 types of power supply analysis

Key Specifications	MSO3034X	MSO3054X
Bandwidth	350MHz	500MHz
Channels	4	4
Sample rate (analog)	5 GSa/s (interweave mode), 2.5 GSa/s (non-interweave mode)	
Sample rate (digital)	1.25GSa/s	
Memory depth	500Mpts	
Max. Waveform capture rate	≥800,000 wfms/s; ≥2,000,000 wfms/s (sequence mode)	
Time base scale	350 MHz (1 ns/div - 1 ks/div) 500 MHz (500 ps/div - 1 ks/div)	
Input impedance	(1 MΩ±2%) (16 pF±3 pF)	
Input impedance (digital)	(101 kΩ±1%) (9 pF ± 1 pF)	
Vertical scale	500 μV/div - 10 V/div(1 MΩ) 500 μV/div - 1 V/div(50 Ω)	
DC gain accuracy	<5 mV : ±3% full scale, ≥5 mV : ±2% full scale	
Waveform record	250,000 frames	
Serial protocol analysis	Standard: RS232/UART, I2C, SPI Option: CAN, CAN-FD, LIN, FlexRay, AUDIO, MIL-STD-1553B, Manchester, SENT, ARINC429	
Auto measurements	56 kinds of parameter, simultaneously display 27 kinds of parameter measurement	
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Histogram	
Arbitrary waveform generator (optional)	2 CH, 50 MHz , 250 Msa/s	
Frequency counter	7-digit hardware frequency counter	
Digital voltmeter	4digits, DC/AC RMS/DC+AC RMS	
Advanced analysis function	Power Analysis (Optional), BODE Plot (Optional), Limit Mask Testing	
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI, WIFI, 10MHz reference clock IN/OUT	

General Characteristics	
Power	"100 V-240 VAC(fluctuate:±10%), 50 Hz/60 Hz 100 V-120 VAC(fluctuate:±10%), 400 Hz"
Display	10.1 - inch multi-touch capacitive screen, 1280*800(H*V)
Product net weight	3.83 kg
Product size (W×H×D)	378 mm×218 mm×120 mm
Standard quantity per carton	1pcs

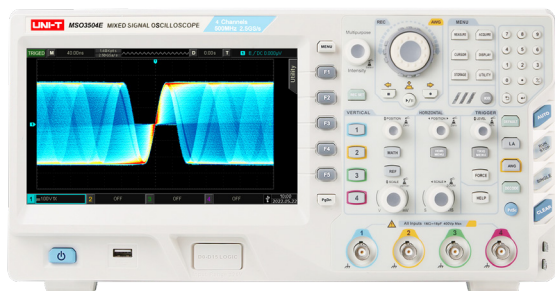
Ordering Information	
MSO3000X Series	MSO3054X : 500 MHz, 5 GS/s, 500 Mpts, 4 CH digital oscilloscope
	MSO3054X : 350 MHz, 5 GS/s, 500 Mpts, 4 CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D30: USB3.0 data cable
	UT-P07A/UT-P08A: Passive probe x 4 (1 x, 10 x switchable, 500 MHz/350 MHz)
	UT-L45: BNC-BNC straight-through cable x1
	UT-L02: BNC-red and black alligator connecting wire x 1
Optional Accessories	Active single-ended probe: UT-PA2000, UT-PA1000
	High Voltage Probe:UT-V23/UT-P21/UT-P20
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44,UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B
	16-channel logic analyzer probe:UT-M15
	Isolation transformer: UT-ISOT
Software Options	MSO3000X-BW3M5T5M: 350MHz Upgrade to 500MHz Bandwidth
	MSO3000X-AWG: Dual-Channel 50 MHz Arbitrary Waveform Generator Option
	MSO3000X-PWR: Power Analysis Option
	MSO3000X-BND: All Serial Bus Trigger and Decode Options (Including MSO3000X-AUTO, MSO3000X-AUDIO, MSO3000X-MIL-STD, MSO3000X-ARINC429, MSO3000X-MANCH)
	MSO3000X-AUDIO: Audio Serial Bus Trigger and Analysis Option
	MSO3000X-MIL1553: Aerospace Serial Bus Trigger and Analysis Option (MIL-STD-1553)
	MSO3000X-ARINC429: Aerospace Serial Bus Trigger and Analysis Option (ARINC429)
	MSO3000X-AUTO: Automotive Serial Bus Trigger and Decode Option (CAN, CAN-FD, LIN, FlexRay, SENT)
	MSO3000X-MANCH: Serial Bus Trigger and Analysis Option (Manchester)
	MSO3000X-CAN: Automotive Serial Bus Trigger and Analysis Option (CAN)
	MSO3000X-CANFD: Automotive Serial Bus Trigger and Analysis Option (CAN-FD)
	MSO3000X-LIN: Automotive Serial Bus Trigger and Analysis Option (LIN)
	MSO3000X-FLEX: Automotive Serial Bus Trigger and Analysis Option (FlexRay)
	MSO3000X-SENT: Automotive Sensor Bus Trigger and Analysis Option (SENT)



MSO3000X Series

MSO/UPO3000E Series

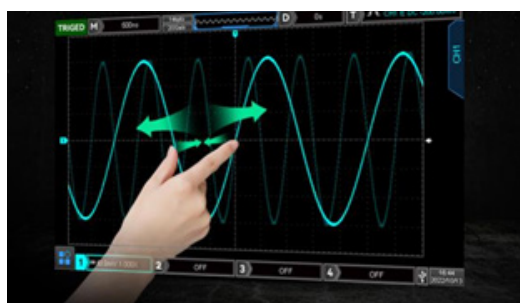
Digital Oscilloscopes



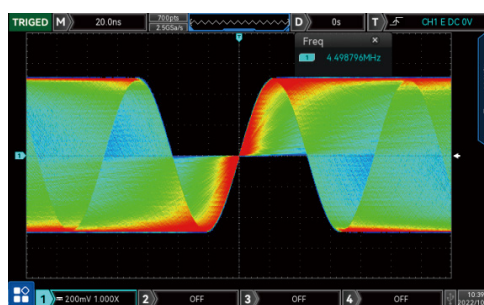
The MSO/UPO3000E series digital phosphor oscilloscope is a multifunctional and high-performance oscilloscope based on UNI-T's original Ultra Phosphor 2.0 technology. It realizes the combination of ease of use, excellent technical indicators and many functional features. It can help users complete the measurement work faster. It is an oscilloscope designed for general design / debugging / testing needs in many fields, such as communication, semiconductor, computer, instrumentation, industrial electronics, consumer electronics, automotive electronics, on-site maintenance, R & D / education, etc. Fast Acquire technology can accurately capture abnormal events such as video, jitter, noise and low wave signals.

- Analog channel bandwidth: 350MHz, 500MHz
- Real time Sample rate of analog channel 2.5GSa/s, Real time Sample rate of digital channel 1.25GSa/s (only MSO)
- Input impedance :1M Ω , 50 Ω
- Max. memory depth :250Mpts
- Waveform capture rate up to 1,000,000 wfms/s
- Built in 50MHz dual channel function / arbitrary waveform generator (only MSO-S). It supports real-time loading of oscilloscope screen data to AWG arbitrary wave output.
- Support Bode Plot loop test and analysis function
- Hardware real-time waveform uninterrupted recording and analysis up to 120,000 frames
- Waveform operation functions (+, -, $\times$, $\div$, digital filtering, logic operation and advanced operation)
- 1M points enhanced FFT, supporting frequency setting, waterfall diagram, detection setting and mark measurement, etc.
- Auto measurement of 36 waveform parameters
- Multi-Scopes 2.0 supports multi-channel independent trigger and fluorescent display
- Multi-channel independent 7-digit hardware frequency counter

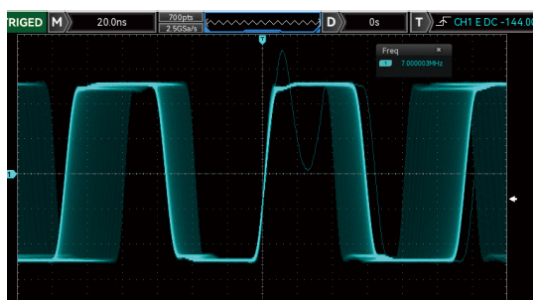
- DVM supports multi-channel independent AC / DC true RMS measurement
- Rich trigger functions: edge, pulse, video, slope, runt, over amplitude pulse, delay, timeout, duration, setup/hold, Nth edge and pattern trigger
- Area trigger function, which can be used to capture accidental signals and observe complex signals
- Protocol trigger and decoding function (optional): RS232, I2C, SPI, CAN, CAN-FD, LIN, FlexRay
- Ultra Phosphor 2.0 super fluorescent display effect, up to 256 levels of gray display
- 8-inch 800 $\times$ 480 capacitive touch, supporting various gesture operations: click, slide, zoom, edit, drag, etc.
- Rich interfaces: USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail), AWG, VGA
- Support U disk data storage, U disk software upgrade, one-key copy screen and other functions
- Support plug and play USB device, can communicate with computer through USB device
- Support SCPI programmable instrument standard commands
- Support web access and control



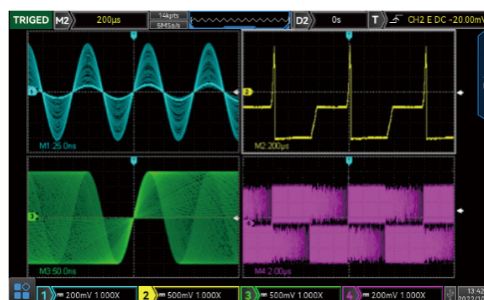
- Brand new interactive experience



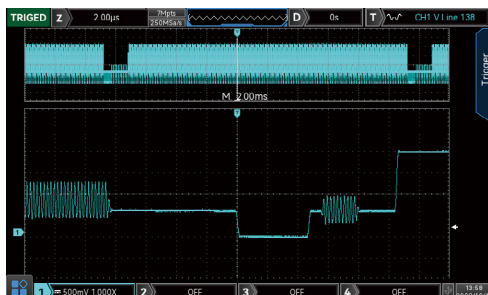
- 256-level grayscale display



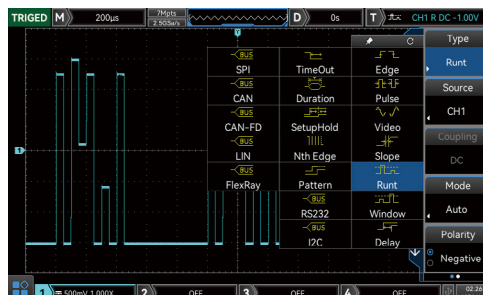
- Ultra high capture rate 1,000,000 wfms/s in Fast Acquire mode



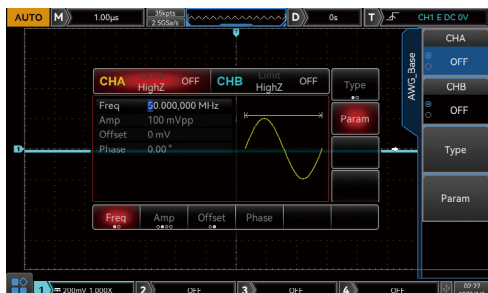
- Channel split screen function Multi-Scopes 2.0



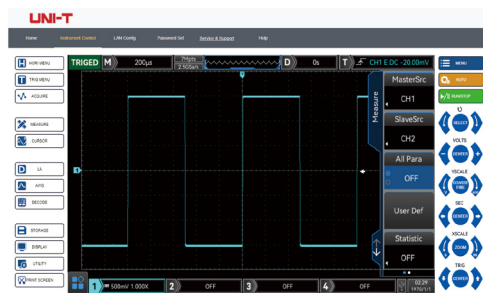
- Max. memory depth 250Mpts



- Rich trigger function



- AWG Function Arbitrary Waveform Generator



- Embedded with Web Server

Key Specifications	MSO3352E UPO3352E	MSO3354E UPO3354E	MSO3354E-S	MSO3502E UPO3502E	MSO3504E UPO3504E	MSO3504E-S
Bandwidth	350MHz			500MHz		
Channels	2+ 16digital/2	4+ 16digital/4	4+ 16digital, 2CH AWG	2+ 16digital/2	4+ 16digital/4	4+ 16digital, 2CH AWG
Sample rate (analog)	2.5GS/s (Single channel), 1.25GS/s (all channels)					
Sample rate (digital)	1.25GS/s					
Max. memory depth	250Mpts					
Waveform capture rate	200,000wfms/s; 1,000,000wfms/s(Fast Acquire)					
Time base scale (s/div)	1ns/div-1000s/div (Display current Sample rate and memory depth)					
Input impedance	(± 2%@1MΩ,±1.5%@50Ω) (18 pF± 3 pF)					
Input impedance (digital)	(101 kΩ±1%) (9 pF ± 1 pF)					
Vertical scale (V/div)	1mV/div-10 V/div (1 MΩ); 1mV/div-1V/div (50Ω)					
DC gain accuracy	<5mV:±3%,≥5mV:±2%					
Waveform record	120,000 frames					
Trigger types	Edge, Runt, Window, Nth Edge, Delay, Time out, Duration, Setup/Hold, Pulse Width, Slop, Video, Pattern; Optional:RS232/UART, I2C, SPI, CA, CAN-FD, LIN, FlexRay					
Bus decode	Optional:RS232/UART, I2C, SPI, CA, CAN-FD, LIN, FlexRay					
Mathematical operations	A+B, A-B, AxB, A/B, Enhanced FFT,digital filtering, editable advanced and logical operations					
Auto measurements	Analog channel: Max,Min ,High, Low, Ampl, Pk- Pk, Middle, Mean,Cycmean,RMS,CycRMS,AC RMS, Period,Freq,Rise,Fall,RiseDe- lay,FallDelay,+Width,-Width, FRFR, FRFF,FFFR, FFFF, FRLF, FRLR, FFLR, FFLF, +Duty,-Duty,Area,CycArea,Over- sht,Presht,Phase,Pulse, a total of 36 measurement parameters; Digital channel: Freq, period, +Width,-Width, +Duty,-Duty, RiseDelay A → B, FallDelay A → B, phase A → B, phase B → A					
Number of measurements	Display 5 measurements at the same time					
Measurement statistics	Average, Max, Min, standard deviation, number of measurements					
Frequency counter	7-digit hardware frequency meter					
Standard interfaces	USB-host, USB-Device, LAN, EXT Trig, AUX Out(Trig Out\Pass/Fail) output, AWG(only MSO-S model), VGA					

General Characteristics

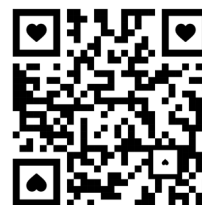
Power	100 V -240 VAC(fluctuate:±10%),50 Hz/60 Hz 100 V -120 VAC(fluctuate:±10%),400 Hz
Display	8 inch TFT LCD, WVGA (800x480),touch screen
Product net weight	4.5kg
Product size (W×H×D)	370mm×185mm×115mm
Standard quantity per carton	1pcs
Standard carton size	475mm x 215mm x 300mm
Standard carton gross weight	5.2kg

Ordering Information

Model: MSO3000E Series	MSO3504E-S :500MHz, 2.5GS/s, 250Mpts, 4+16CH MSO,2CH 50MHz AWG
	MSO3504E :500MHz, 2.5GS/s, 250Mpts, 4+16CH MSO
	MSO3502E :500MHz, 2.5GS/s, 250Mpts, 2+16CH MSO
	MSO3354E-S :350MHz, 2.5GS/s, 250Mpts, 4+16CH MSO,2CH 50MHz AWG
	MSO3354E :350MHz, 2.5GS/s, 250Mpts, 4+16CH MSO
	MSO3352E :350MHz, 2.5GS/s, 250Mpts, 2+16CH MSO
Model: UPO3000E Series	UPO3504E :500MHz, 2.5GS/s, 250Mpts, 4CH
	UPO3502E :500MHz, 2.5GS/s, 250Mpts, 2CH
	UPO3354E :350MHz, 2.5GS/s, 250Mpts, 4CH
	UPO3352E :350MHz, 2.5GS/s, 250Mpts, 2CH
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P07A:Passive probe x 2/4 (1 x, 10 x switchable, 500MHz)(MSO/UPO3502E,MSO/UPO3504E)
	UT-P08A:Passive probe x 2/4 (1 x, 10 x switchable, 350MHz)(MSO/UPO3352E,MSO/UPO3354E)
	UT-M15:16CH logic analyzer probe(MSO3000E series)
	UT-L45: BNC-BNC straight-through cable (only MSO-S)×1
	UT-L02A: BNC-red and black alligator clip cable (only MSO-S) ×1
Optional Accessories	High Voltage Probe:UT-V23/UT-P21
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44
	16-channel logic analyzer probe:UT-M15
	Isolation transformer:UT-ISOT

Ordering Information

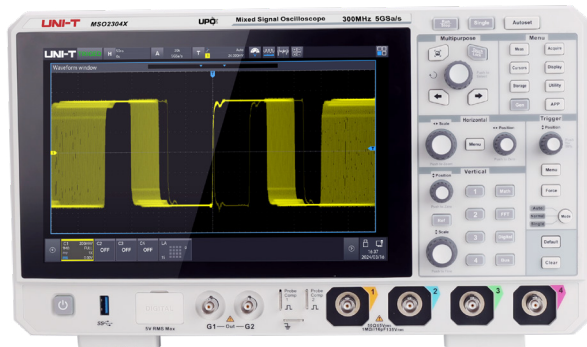
Software Options	MSO/UPO3000CS-BND:All Serial Bus Trigger and Decode Options
	MSO/UPO3000CS-EMBD:Serial bus trigger and decode options (includes RS232, UART, I2C, SPI)
	MSO/UPO3000CS-AUTO:Automotive serial bus triggering and decoding options (CAN, CAN-FD, LIN, FlexRay)
	MSO/UPO3000CS-COM:RS232/UART trigger and decode options
	MSO/UPO3000CS-I2C:I2C trigger and decode options
	MSO/UPO3000CS-SPI:SPI trigger and decode options
	MSO/UPO3000CS-CAN:CAN trigger/decode option
	MSO/UPO3000CS -CAN-FD:CAN-FD trigger/decode option
	MSO/UPO3000CS -LIN:LIN trigger/decode option
	MSO/UPO3000CS -FlexRay:FlexRay trigger/decode option
	MSO3000CS -S-BODE:Bode plot loop test analysis (software)



MSO/UPO3000E Series

MSO2000X Series

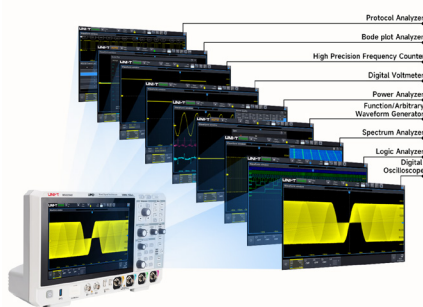
Digital Oscilloscopes



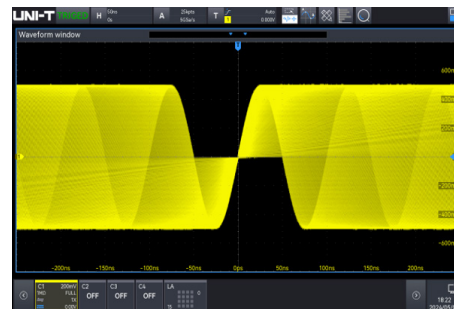
MSO2000X series mixed signal oscilloscope with the maximum bandwidth of 300 MHz, maximum Sample rate of 5 GSa/s and equipped with 4 analog channels and 16 digital channels, the memory depth up to 100 Mpts. MSO2000X has unique Ultra Phosphor 3.0 technology, the waveform capture rate is up to 2,000,000 wfms/s, innovative digital trigger system with high trigger sensitivity and low jitter. This oscilloscope supports multiple advanced triggers, serial bus trigger and decoding, and supports the advanced sampling and analysis mode of spectrum analyzing, power analysis, histogram, waveform recording, enhanced resolution (ERES), hardware acceleration template testing, Search and Navigate. MSO2000X series adopts 10.1 - inch capacitive touch screen that supports multiple gestures for common waveform operations, and combined with multiple one-touch keys on the front panel, this greatly optimizes the efficiency of oscilloscope operation and improves the user experience.

- 4CH+16MSO
- BW: 100 MHz/200 MHz/300 MHz
- Memory depth 100Mpts/CH
- Waveform capture rate 500,000 wfms/s (sequention mode: 2,000,000 wfms/s)
- Versatile Testing Equipment: Digital oscilloscope, Logic analyzer, Function/arbitrary waveform generator, Spectrum analyzer, Digital voltmeter, Frequency counter, protocol analyzer, Bode plot analyzer, and Power analyzer
- Parameter measurement statistics add Histogram and Trend chart

- 125,000 frames of hardware real-time waveform non-stop recording and analysis capabilities
- 4M points enhanced FFT
- 56 waveform parameter measurements
- Multi-Windows display
- Zone trigger function
- Ultra Phosphor3.0 display technology
- 10.1-inch 1280x800 HD capacitive touch
- Supports SCPI programmable instrument standard commands
- Embedded WebServer



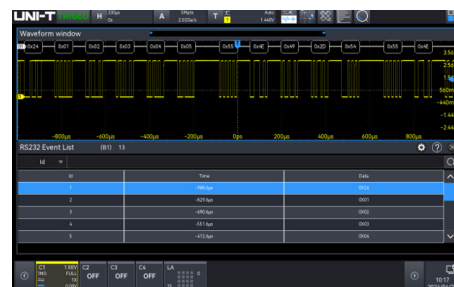
- Versatile Testing Equipment



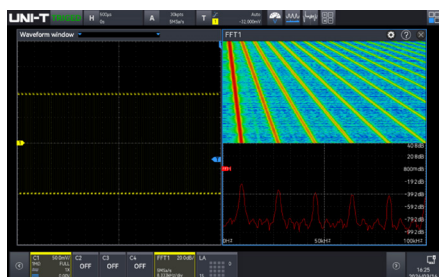
- Utilizing Ultra Phosphor 3.0 technology, waveform capture rates are up to 500,000 wfms/s and 2000,000 wfms/s in sequence mode.



- MSO2000X series provides 56 kinds of measurement parameters. The parameter snapshot displays 39 kinds of test items for a single channel measurement



- 9 kinds of trigger protocol and decoding, which including the field of computer, embedded serial bus, automobile, aerospace and audio



- Enhanced FFT, up to 4 Mpts, 4 channels signal analysis



- 12 types of power supply analysis

Key Specifications	MSO2104X	MSO2204X	MSO2304X
Bandwidth	100MHz	200MHz	300MHz
Channels	4	4	4
Sample rate (analog)	5 GSa/s (interweave mode), 2.5 GSa/s (non-interweave mode)		
Sample rate (digital)	1.25GSa/s		
Memory depth	100Mpts per channel		
Max. Waveform capture rate	≥500,000 wfms/s; ≥2,000,000 wfms/s (sequence mode)		
Time base scale	100 MHz (5 ns/div - 1 ks/div) 200 MHz (2 ns/div - 1 ks/div) 300 MHz (1 ns/div - 1 ks/div)		
Input impedance	(1 MΩ±2%) (16 pF±3 pF)		
Input impedance (digital)	(101 kΩ±1%) (9 pF ± 1 pF)		
Vertical scale	500 μV/div - 10 V/div(1 MΩ) 500 μV/div -1 V/div(50 Ω)		
DC gain accuracy	<5 mV : ±3% full scale, ≥5 mV : ±2% full scale		
Waveform record	125,000 frames		
Serial protocol analysis	Standard: RS-232/422/485/UART, I2C, SPI Option: CAN, CAN-FD, LIN, FlexRay, AUDIO, SENT		
Auto measurements	56 kinds of parameter, simultaneously display 27 kinds of parameter measurement		
Measurement statistics	Mean, Maximum, Minimum, Std Dev, Count, Tendency chart, Histogram		
Arbitrary waveform generator (optional)	2 CH, 50 MHz , 250 MSa/s		
Frequency counter	7-digit hardware frequency counter		
Digital voltmeter	4digits, DC/AC RMS/DC+AC RMS		
Advanced analysis function	Power Analysis (Optional), BODE Plot (Optional), Limit Mask Testing		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out (Trig Out, Pass/Fail, DVM), Gen Out, HDMI, 10MHz reference clock IN/OUT		

General Characteristics	
Power	100 V-240 VAC(fluctuate:±10%), 50 Hz/60 Hz 100 V-120 VAC(fluctuate:±10%), 400 Hz
Display	10.1 - inch multi-touch capacitive screen, 1280*800(H*V)
Product net weight	3.83 kg
Product size (W×H×D)	378 mm×218 mm×120 mm
Standard quantity per carton	1pcs

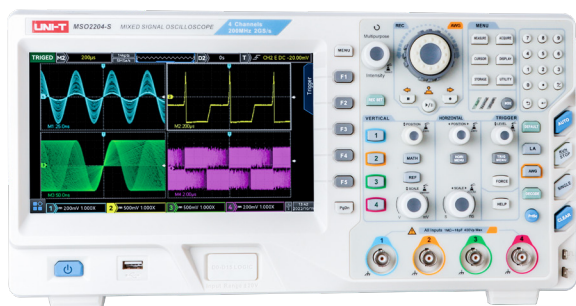
Ordering Information	
MSO2000X Series	MSO2304X : 300 MHz, 5 GS/s, 100 Mpts, 4 CH digital oscilloscope
	MSO2204X : 200 MHz, 5 GS/s, 100 Mpts, 4 CH digital oscilloscope
	MSO2104X : 100 MHz, 5 GS/s, 100 Mpts, 4 CH digital oscilloscope
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D30: USB3.0 data cable
	UT-P06/UT-P05/UT-P04: Passive probe (300 MHz/200 MHz/100 MHz) x 4
	UT-L45: BNC-BNC straight-through cable x1
	UT-L02: BNC-red and black alligator connecting wire x 1
Optional Accessories	High Voltage Probe:UT-V23/UT-P21/UT-P20
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44, UT-P4030D/UT-P4150/UT-P4500/UT-4100A /UT-4100B
	16-channel logic analyzer probe:UT-M15
	Isolation transformer: UT-ISOT
Software Options	MSO2000X-BW1MT3M:100MHz Upgrade to 300MHz Bandwidth
	MSO2000X-BW2MT3M:200MHz Upgrade to 300MHz Bandwidth
	MSO2000X-BW1MT2M:100MHz Upgrade to 200MHz Bandwidth
	MSO2000X-AWG:Dual-Channel 50 MHz Arbitrary Waveform Generator Option
	MSO2000X-PWR:Power Analysis Option
	MSO2000X-BND:All Serial Bus Trigger and Decode Options (Including MSO2000X-AUTO bundle and MSO2000X-AUDIO)
	MSO2000X-AUDIO:Audio Serial Bus Trigger and Analysis Option
	MSO2000X-AUTO:Automotive Serial Bus Trigger and Decode Option (Including CAN, CAN-FD, LIN, FlexRay, SENT)
	MSO2000X-CAN:Automotive Serial Bus Trigger and Analysis Option (CAN)
	MSO2000X-CANFD:Automotive Serial Bus Trigger and Analysis Option (CAN-FD)
	MSO2000X-LIN:Automotive Serial Bus Trigger and Analysis Option (LIN)
	MSO2000X-FLEX:Automotive Serial Bus Trigger and Analysis Option (FlexRay)
	MSO2000X-SENT:Automotive Sensor Bus Trigger and Analysis Option (SENT)



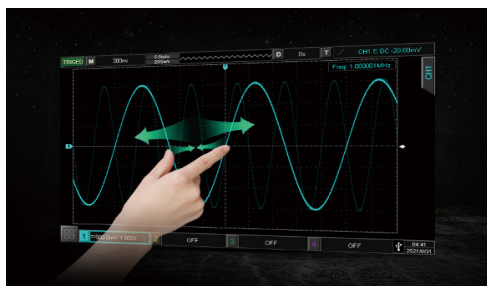
MSO2000X Series

MSO/UPO2000 Series

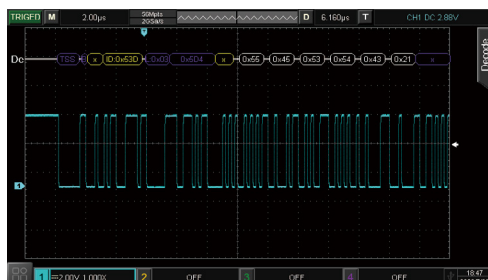
Digital Oscilloscopes



- Analog channel bandwidth: 200MHz, 100MHz
- Real time Sample rate of analog channel 2GSa/s
- Memory depth of each channel: 56Mpts
- Waveform capture rate up to 1,000,000 wfms/s
- Built in 50MHz dual channel function / arbitrary waveform generator (only MSO-S)
- Support real-time loading of oscilloscope screen data to AWG arbitrary wave output
- Support Bode Plot loop test and analysis function
- Hardware real-time waveform uninterrupted recording and analysis up to 120,000 frames



- The 8-inch touch screen design supports a variety of gesture operations, such as click, slide, zoom, edit, drag, etc.



- The full-memory hardware decoding under the deep storage of 56Mpts, Decoding speed in milliseconds

The UPO/MSO2000 series digital phosphor oscilloscope is a multifunctional and high-performance oscilloscope based on UNI-T's original Ultra Phosphor technology. It realizes the combination of ease of use, excellent technical indicators and many functional features. It can help users complete the measurement work faster. It is an oscilloscope designed for general design / debugging / testing needs in many fields, such as communication, semiconductor, computer, instrumentation, industrial electronics, consumer electronics, automotive electronics, on-site maintenance, R & D / education, etc. FastAcq technology can accurately capture abnormal events such as video, jitter, noise and low wave signals.

- 4M points enhanced FFT, supporting frequency setting, waterfall diagram, detection setting and mark measurement, etc.
- Auto measurement of 36 waveform parameters
- Multi-Scopes supports multi-channel independent trigger and fluorescent display
- Hardware 7-digit frequency meter
- DVM supports multi-channel independent AC / DC true RMS measurement
- Area trigger function
- Protocol trigger and decoding function. Standard: RS232, I2C, SPI; Optional: CAN, CAN-FD, LIN, FlexRay
- 8-inch 800x480 capacitive touch



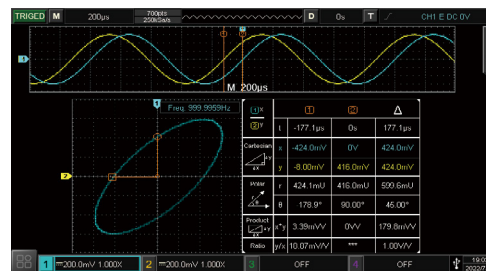
- Using innovative digital signal parallel processing technology, it can reach an ultra-high capture rate of 200,000wfms/s in normal sampling and 1,000,000 wfms/s in FastAcq mode.



- The area trigger can be used in combination with the existing basic trigger, advanced trigger and protocol trigger to complete the capture of various occasional and complex characteristic signals.



- Provides a Bode plot for loop analysis



- XY mode cursor measurement can quickly measure the phase difference between two signals.

Key Specifications	MSO2102-S MSO2102	MSO2104-S MSO2104	MSO2202-S MSO2202	MSO2204-S MSO2204
	UPO2102	UPO2104	UPO2202	UPO2204
Bandwidth	100MHz		200MHz	
Channels	2+16 digital/2	4+16 digital/4	2+16 digital/2	4+ 16digital/4
Sample rate (analog)	2GSa/s			
Sample rate (digital)	1GSa/s (only MSO)			
Max. memory depth	56Mpts per CH			
Waveform capture rate	200,000wfms/s,1,000,000wfms/s(Fast Acquire)			
Time base scale (s/div)	2ns/div-1000s/div (Display Sample rate and memory depth)		1ns/div-1000s/div (Display Sample rate and memory depth)	
Input impedance	(1MΩ±2%) (16pF±3pF)			
Input impedance (digital)	(101kΩ±1%) (9pF±1pF)			
Vertical scale (V/div)	500uV/div-20 V/div (1 MΩ)			
DC gain accuracy	<5mV:±3%,≥5mV:±2%			
Waveform record	120,000 frames			
Trigger types	Edge, Runt, Window, Nth Edge, Delay, Time out, Duration, Setup/Hold, Pulse Width, Slop, Video, Pattern; Optional:RS232/UART, I2C, SPI, CAN, CAN-FD, LIN, FlexRay			
Bus decode	Optional:RS232/UART, I2C, SPI, CA, CAN-FD, LIN, FlexRay			
Mathematical operations	A+B, A-B, A×B, A/B, Enhanced FFT,digital filtering, editable advanced and logical operations			
Auto measurements	Analog channel: Max,Min ,High, Low, Ampl, Pk- Pk, Middle, Mean,Cycmean,RMS,CycRMS,AC RMS, Period,Freq,Rise,Fall,RiseDe- lay,FallDelay,+Width,-Width, FRFR, FRFF,FFFF, FRLF, FRLR, FFLR, FFLF, +Duty,-Duty,Area,CycArea,Over- sht,Presht,Phase,Pulse, a total of 36 measurement parameters; Digital channel: Freq, period, +Width,-Width, +Duty,-Duty, RiseDelay A → B, FallDelay A → B, phase A → B, phase B → A			
Number of measurements	Display 5 measurements at the same time			
Measurement statistics	Average, Max, Min, standard deviation, number of measurements			
Frequency counter	7-digit hardware frequency meter			
Standard interfaces	USB-host, USB-Device, LAN, EXT Trig, AUX Out(Trig Out\Pass/Fail) output, AWG (only MSO-S model), VGA			

General Characteristics	
Power	100 V -240 VAC(fluctuate:±10%),50 Hz/60 Hz 100 V -120 VAC(fluctuate:±10%),400 Hz
Display	8 inch TFT LCD, WVGA (800x480),touch screen
Product net weight	4.5kg
Product size (W×H×D)	370mm x 185mm x 115mm
Standard quantity per carton	1pcs
Standard carton size	470mm x 215mm x 300mm
Standard carton gross weight	5.2kg

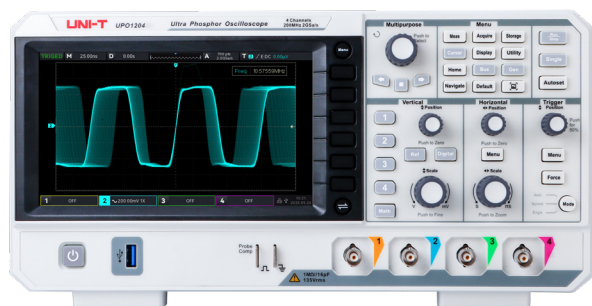
Ordering Information	
MSO2000 Series	MSO2204-S :200MHz, 2GSa/s, 56Mpts, 4+16CH MSO,2CH 50MHz AWG
	MSO2204 :200MHz, 2GSa/s, 56Mpts, 4+16CH MSO
	MSO2202-S :200MHz, 2GSa/s, 56Mpts, 2+16CH MSO,2CH 50MHz AWG
	MSO2202 :200MHz, 2GSa/s, 56Mpts, 2+16CH MSO
	MSO2104-S :100MHz, 2GSa/s, 56Mpts, 4+16CH MSO,2CH 50MHz AWG
	MSO2104 :100MHz, 2GSa/s, 56Mpts, 4+16CH MSO
	MSO2102-S :100MHz, 2GSa/s, 56Mpts, 2+16CH MSO,2CH 50MHz AWG
	MSO2102 :100MHz, 2GSa/s, 56Mpts, 2+16CH MSO
UPO2000 Series	UPO2204 :200MHz, 2GS/s, 56Mpts, 4CH
	UPO2202 :200MHz, 2GS/s, 56Mpts, 2CH
	UPO2104 :100MHz, 2GS/s, 56Mpts, 4CH
	UPO2102 :100MHz, 2GS/s, 56Mpts, 2CH
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P05:Passive probe x 2/4 (1 x, 10 x switchable, 200MHz)(MSO/UPO2202,MSO/UPO2204,MSO2202/4-S)
	UT-P04:Passive probe x 2/4 (1 x, 10 x switchable, 100MHz)(MSO/UPO2102,MSO/UPO2104,MSO2102/4-S)
	UT-M15:16CH logic analyzer probe(MSO2000 series)
	UT-L45: BNC-BNC straight-through cable (only MSO-S)
	UT-L02A: BNC-red and black alligator clip cable (only MSO-S)
Optional Accessories	High Voltage Probe:UT-V23/UT-P21
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44
	16-channel logic analyzer probe:UT-M15
	Isolation transformer:UT-ISOT
Software Options	MSO/UPO2000-BND:Serial bus trigger and decode options (MSO/UPO2000-EMBD& MSO/UPO2000-AUTO)
	MSO/UPO2000-EMBD:Serial bus trigger and decode options (includes RS232, UART, I2C, SPI)
	MSO/UPO2000-AUTO:Automotive serial bus triggering and decoding options (CAN, CAN-FD, LIN, FlexRay)
	MSO/UPO2000 -COM:RS232/UART trigger and decode options
	MSO/UPO2000 -I2C:I2C trigger and decode options
	MSO/UPO2000 -SPI:SPI trigger and decode options
	MSO/UPO2000-CAN:CAN trigger/decode option
	MSO/UPO2000-CAN-FD:CAN-FD trigger/decode option
	MSO/UPO2000-LIN:LIN trigger/decode option
	MSO/UPO2000-FlexRay:FlexRay trigger/decode option
	UPO2000-LA16:16-channel upgrade option (software),for UPO2000 models only
	MSO2000-S-BODE: Bode plot loop test analysis (software)



MSO/UPO2000 Series

UPO1000 Series

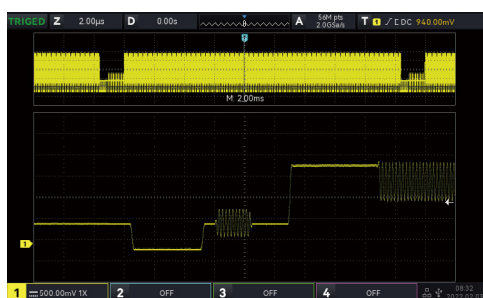
Digital Oscilloscopes



- Analog channel bandwidth: 200MHz, 100MHz, 50MHz
- Number of analog channels: 4
- Maximum Sample rate: 2GSa/s
- Vertical scale: 500 μ V/div~20 V/div
- Low noise floor: <100 μ Vrms
- Memory depth 56Mpts/CH
- Waveform capture rate up to 500,000 wfms/s
- Hardware real-time waveform recording 120,000 frames
- Can automatically measure 36 kinds of waveform parameters, the measurement range is optional: screen or cursor area

UPO1000 series digital oscilloscope adopts UNI-T's newly created digital 3D technology Fast Acquire Phosphor™. This series is equipped with three levels of bandwidth of 50MHz/100MHz/200MHz, and the real-time Sample rate is as high as 2GSa/s. The whole series is equipped with 4 channels as standard; supports independent DVM module; has rich trigger and bus decoding functions, and supports full-memory hardware real-time decoding. It can be widely used in communication, semiconductor, computer, integrated circuit design, instrumentation, industrial electronics, consumer electronics, automotive electronics, field maintenance, research and development/education and many other fields.

- 7-digit hardware frequency meter
- DVM supports four-channel true RMS measurement
- 1M points enhanced FFT function
- RS232, I2C, SPI full memory hardware real-time decoding
- Supports waveform navigation, markers, segments
- Support SCPI programmable instrument standard commands
- Support WEB access and control



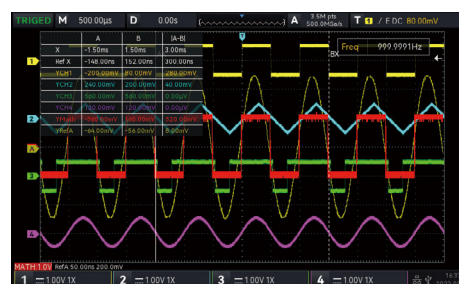
- The maximum memory depth is 56Mpts. At the same time, the whole and details of the waveform are considered



- Innovative hardware decoding enables real-time decoding



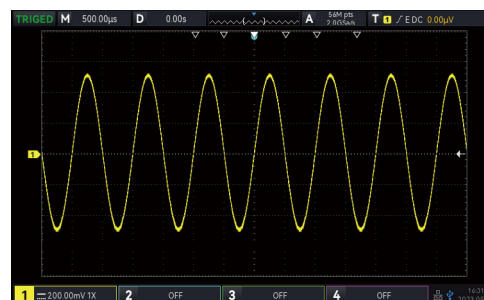
- 1M sampling point enhanced FFT



- The cursor function can measure the time and voltage of CH1, CH2, CH3, CH4, MATH, REF at the same time. MATH, REF at the same time.



● When "Cursor" is turned on, the parameters of the waveform in the cursor area can be measured



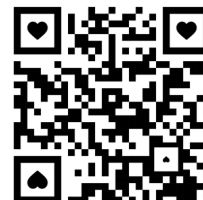
● When "Cursor" is turned on, the parameters of the waveform in the cursor area can be measured

Key Specifications	UPO1054	UPO1104	UPO1204
Bandwidth	50 MHz	100 MHz	100 MHz
Channels	4		
Sample rate	2GSa/s		
Max. memory depth	56 Mpts(Per channel)		
Waveform capture rate	150,000wfms/s; 500,000 wfms/s(Fast Acquire mode)		
Time base scale (s/div)	2ns/div - 1000s/div	2ns/div - 1000s/div	1 ns/div - 1000s/div
Input impedance	(1MΩ± 2%)/(16 pF± 3pF)		
Vertical scale (V/div)	500 μV/div - 20V/div (1MΩ)		
DC gain accuracy	<10mV: ±4.0% full scale; ≥10mV: ±3.0% full scale;		
Waveform record	120,000 frames		
Trigger types	Edge, Runt Set, Window Set, Nth Edge, Delay, Timeout, Pattern, Duration, Build / hold, Pulse, Slope, Video, RS232 / UART, I2C, SPI		
Bus decode	Standard:RS232/UART, I2C,SPI		
Mathematical operations	A+B, A-B, A×B, A/B, Enhanced FFT, Editable advanced, operations(Log,Exp,Sin,Cos,Tan,Sqrt,Intg,Diff), Logical operations		
Auto measurements	Max,Min,High, Low, ampl, Pk- Pk, Middle, Mean,Cycmean ,RMS,CycRMS,AC RMS, Period,Freq,Rise,Fall,RiseDe- lay,FallDelay,+Width,-Width, FRFR, FRFF,FFFR, FFFF, FRLF, FRLR, FFLR, FFLF,+Duty,-Duty,Area,CycArea,Over- sht,Presht,Phase,Pulse, a total of 36 measurement parameters		
Number of measurements	5 measurements are displayed simultaneously		
FFT points	1Mpts		
Frequency counter	7-digit hardware frequency meter		
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out(Trig Out/Pass/Fail)		

General Characteristics

Power	100 V -240 VAC(fluctuate:±10%),50 Hz/60 Hz 100 V -120 VAC(fluctuate:±10%),400 Hz
Display	7 inch TFT LCD, WVGA(800×480)
Product net weight	2.45 kg
Product size (W×H×D)	336 mm×164 mm×105 mm
Standard quantity per carton	1pcs
Standard carton size	470mm×215mm×300mm
Standard carton gross weight	4 kg

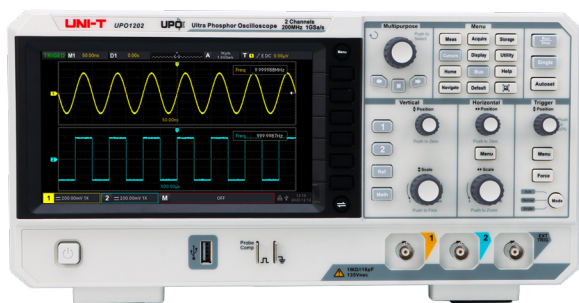
Ordering Information	
UPO1000 Series	UPO1054 (50MHz, 2GS/s, 56Mpts, 4-Channel)
	UPO1104 (100MHz, 2GS/s, 56Mpts, 4-Channel)
	UPO1204 (200MHz, 2GS/s, 56Mpts, 4-Channel)
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P03:Passive probe x 4(1 x, 10 x switchable, 60MHz)(UPO1054
	UT-P04:Passive probe x 4(1 x, 10 x switchable, 100MHz)(UPO1104)
	UT-P05:Passive probe x 4(1 x, 10 x switchable, 200MHz)(UPO1204)
Optional Accessories	High Voltage Probe:UT-V23/UT-P21
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44
Software Options	MSO/UPO1000X-1MT2M:Bandwidth upgrade option for MSO/UPO1104 to 200 MHz bandwidth



UPO1000 Series

UPO1002 Series **NEW**

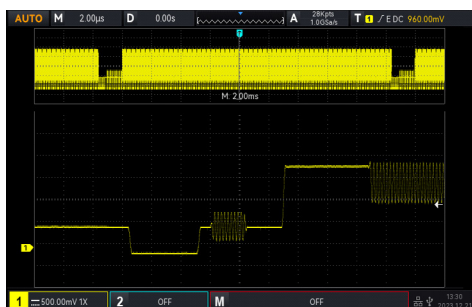
Digital Oscilloscopes



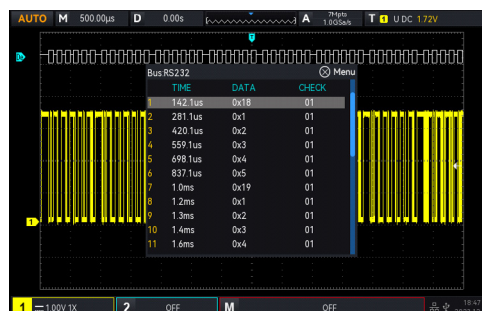
UPO1002 series digital oscilloscope adopts Ultra Phosphor 2.0 technology. This series is equipped with three levels of bandwidth of 100MHz/200MHz, and the real-time sampling rate is as high as 1GSa/s. The whole series is equipped with 2 channels as standard; supports independent DVM module; has rich trigger and bus decoding functions, and supports full-memory hardware real-time decoding. It can be widely used in embedd system design, instrumentation, consumer electronics, automotive electronics, field maintenance, and education and many other fields.

- Analog channel bandwidth: 200MHz, 100MHz
- Number of analog channels: 2
- Max. sample rate: 1GSa/s
- Vertical scale: 500 μ V/div-20 V/div
- Low noise floor: <60 μ Vrms
- Memory depth 56Mpts/CH
- Waveform capture rate up to 100,000 wfms/s
- Hardware real-time waveform recording 120,000 frames

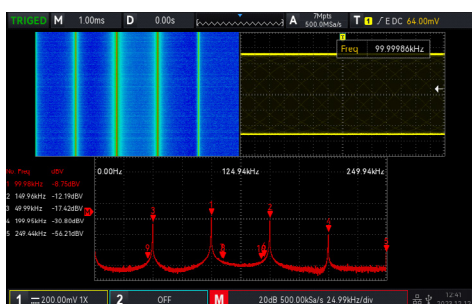
- Can automatically measure 36 kinds of waveform parameters, the measurement range is optional: screen or cursor area
- 6-bit hardware frequency meter
- DVM supports four-channel true RMS measurement
- 1M points enhanced FFT function
- RS232, I2C, SPI full memory hardware real-time decoding
- Supports waveform navigation, markers, segments
- Support SCPI programmable instrument standard commands
- Support WEB access and control



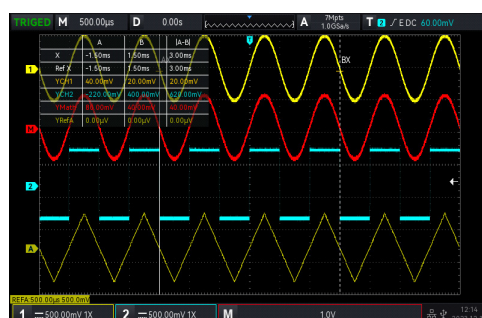
- The maximum memory depth is 56Mpts. At the same time, the whole and details of the waveform are considered



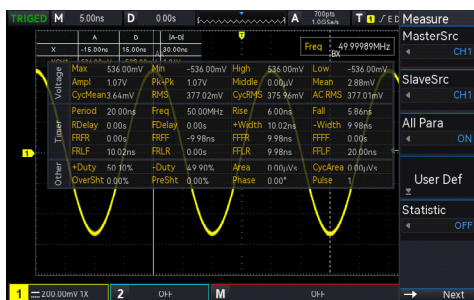
- Innovative hardware decoding enables real-time decoding



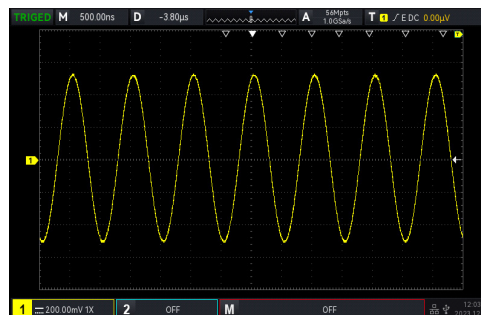
- 1M-point enhanced FFT, in-depth frequency domain analysis



- The cursor function can measure the time and voltage of CH1, CH2, MATH, REF at the same time.



- When "Cursor" is turned on, the parameters of the waveform in the cursor area can be measured



- Navigation functions include time navigation, marker navigation, and segment navigation.

Key Specifications	UPO1102	UPO1202
Bandwidth	100 MHz	200 MHz
Channels	2	2
Sampling rate	1GS/s	
Max. memory depth	56 Mpts/CH	
Waveform capture rate	100,000wfms/s; 500,000 wfms/s (Fast Acquire mode)	
Time base scale (s/div)	1ns/div - 1000s/div	
Input impedance	(1MΩ± 2%)/(16 pF± 2pF)	
Vertical scale (V/div)	500μV/div - 20V/div (1MΩ)	
DC gain accuracy	±3.0% full scale;	
Waveform record	120,000 frames	
Trigger types	Edge, Runt Set, Window Set, Nth Edge, Delay, Timeout,Pattern, Duration, Build / hold, Pulse, Slope, Video, RS232 / UART, I2C, SPI	
Bus decode	Standard:RS232/UART, I2C,SPI	
Mathematical operations	A+B, A-B, AxB, A/B, Enhanced FFT, Editable advanced, operations(Log,Exp,Sin,Cos,Tan,Sqrt,Intg,Diff), Logical operations	
Auto measurements	Max,Min,High, Low, ampl, Pk- Pk, Middle, Mean,Cycmean ,RMS,CycRMS,AC RMS, Period,Freq,Rise,Fall,RiseDe- lay,FallDelay,+Width,-Width, FRFR, FRFF,FFFR, FFFF, FRLF, FRLR, FFLR, FFLF,+Duty,-Duty,Area,CycArea,Over- sht,Presht,Phase,Pulse, a total of 36 measurement parameters	
Number of measurements	5 measurements are displayed simultaneously	
FFT points	1Mpts	
Frequency counter	6-bit hardware frequency meter	
Standard interfaces	USB Host, USB Device, LAN, EXT Trig, AUX Out(Trig Out/,Pass/Fail)	

General Characteristics

Power	100 V -240 VAC(fluctuate:±10%),50 Hz/60 Hz 100 V -120 VAC(fluctuate:±10%),400 Hz
Display	7 inch TFT LCD, WVGA(800×480)
Product net weight	2.45 kg
Product size (W×H×D)	336 mm×164 mm×105 mm
Standard quantity per carton	1pcs
Standard carton size	470mm×215mm×300mm
Standard carton gross weight	4 kg

Ordering Information

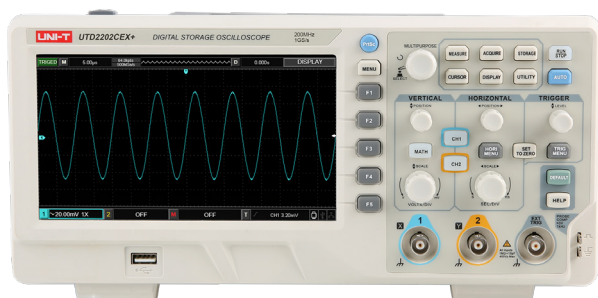
UPO1000 Series	UPO1102 (100MHz, 1GS/s, 56Mpts, 2-Channel)
	UPO1202 (200MHz, 1GS/s, 56Mpts, 2-Channel)
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P04:Passive probe x2(1 x, 10 x switchable, 100MHz) (UPO1102)
	UT-P05:Passive probe x2(1 x, 10 x switchable, 200MHz) (UPO1202)
Optional Accessories	High Voltage Probe:UT-V23/UT-P21
	High Voltage Differential Probe:UT-P30/UT-P31/UT-P32/UT-P33/UT-P35/UT-P36
	Current Probe:UT-P40/UT-P41/UT-P42/UT-P43/UT-P44
Software Options	UPO1002X-1MT2M:Bandwidth upgrade option for UPO1102 to 200 MHz bandwidth



UPO1002 Series

UTD2000CEX+ Series

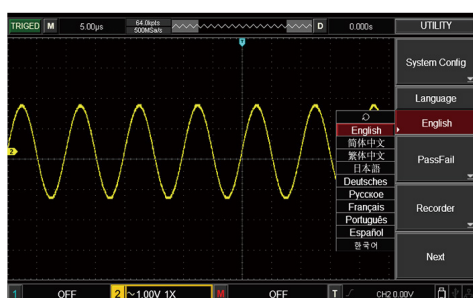
Digital Oscilloscopes



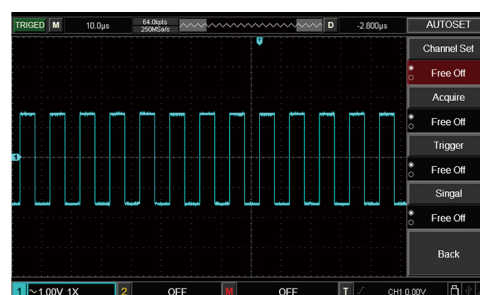
- 50/100/200MHz bandwidth
- 2 channels, low noise floor, wide vertical range: 1mV/div-20V/div
- Memory depth: 64kpts
- System software upgrade via USB drive

The UTD2000CEX+ Series digital storage oscilloscope serves as an entry-level bench solution, addressing the fundamental requirements of basic measurements. Its straightforward and intuitive front panel is designed for easy operation. The UTD2000CEX+ Series offers bandwidth options of 50MHz, 100MHz, and 200MHz, a real-time Sample rate of 1GSa/s, dual channels, and a memory depth of 64kpts. With its versatile capabilities, this model is well-suited for a broad range of application scenarios in communication, semiconductor, computer, instrumentation, industrial electronics, consumer electronics, automotive electronics, on-site maintenance, and R&D/education, among others.

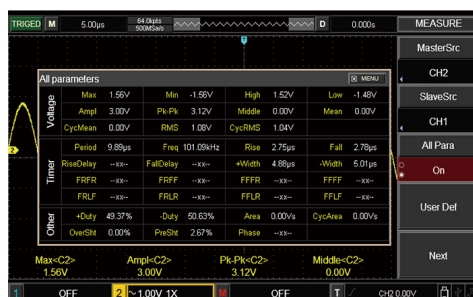
- 7 inch TFT LCD
- Supports plug-and-play USB storage device; communication with and remote control of computer through the USB device



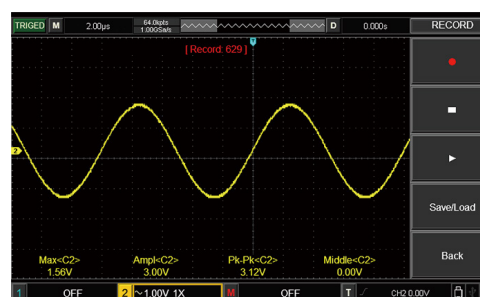
- Multilingualism to meet the needs of more users in countries



- 8div×16div Wider display range



- Automatic Measurement of Waveform Parameter



- Waveform recording functions

Key Specifications	UTD2052CEX	UTD2102CEX+	UTD2202CEX+
Bandwidth	50MHz	100MHz	200MHz
Channels	2		
Sample rate	1GS/s		
Memory depth	64kpts		
Waveform capture rate	5,000wfms/s		
Rise time	<7ns	<3.5ns	<1.8ns
Vertical scale (V/div)	1mV/div-20V/div		

Key Specifications	UTD2052CEX	UTD2102CEX+	UTD2202CEX+
Vertical resolution	8-bit		
Time base scale (s/div)	2ns/div-50s/div		
Deviation from scope	±8div(away from screen center)		
Input impedance	1MΩ±2% ,18±3pF		
Input coupling	DC, AC, GND		
Timing accuracy	≤± (50+2 × service life)ppm		
Time base mode	Y-T,X-Y,Roll		
Storage methods	Setup, wave, bitmap		
Trigger types	Edge, pulse, alternate,slope, video		
Mathematical operations	+ , - , ×, ÷, FFT		
Auto measurements	Max, Min, High, Low, Ampl, Pk-Pk, Middle, Mean, CycMean, RMS, C ycRMS, Period, Freq,Rise, Fall, RiseDelay, FallDelay, +Width, -Width, FRR, FRF, FFR , FFF, LRF, LRR, LFR, LFF, +Duty, -Duty, Area, CycArea, OverSht, PreSht, Phase, 34 paramet ers in total		
Displayed measurements	Display 5 measurements at the same time		
Frequency counter	6 bits		
Interface	USB Host,USB Device,Pass/Fail		

General Characterisitcs	
Power	100-240VAC, 45-440Hz
Display	7 inch TFT LCD, 800×480
Product color	White and grey
Product net weight	2.5kg
Product size (W×H×D)	306mm×138mm×124mm
Standard quantity per carton	2pcs
Standard carton size	450mm x 420mm x 280mm
Standard carton gross weight	7.5kg

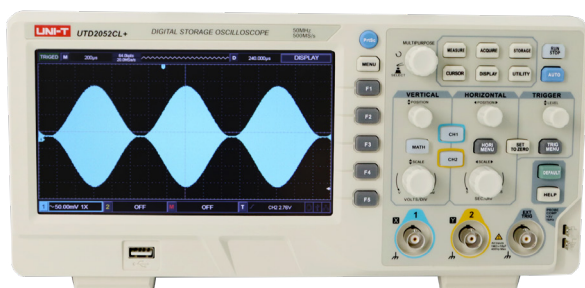
Ordering Information	
UTD2000CEX+	UTD2202CEX+:200MHz,1GS/s,64kpts,2-Channel
	UTD2102CEX+:100MHz,1GS/s,64kpts,2-Channel
	UTD2052CEX+:50MHz,1GS/s,64kpts,2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P03:Passive Probe x 2 (1 x , 10 x switchable,60MHz)
	UT-P04:Passive Probe x 2 (1 x , 10 x switchable,100MHz)
	UT-P05:Passive Probe x 2 (1 x , 10 x switchable,200MHz)



UTD2000CEX+ Series

UTD2000CL/CL+ Series

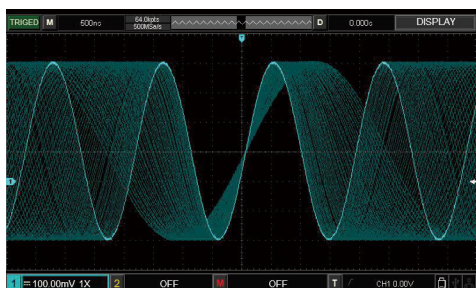
Digital Oscilloscopes



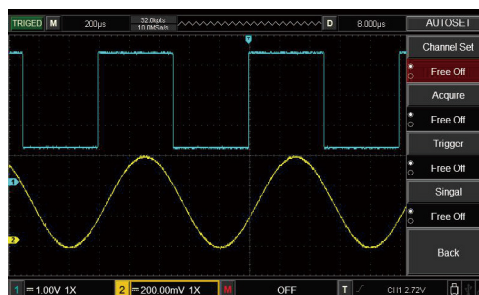
The UTD2000CL/CL+ Series stands out as a popular choice for entry-level digital oscilloscopes, designed to fulfill mainstream testing needs. With a classic front panel design and a clear user interface, this model is well-suited for your daily testing tasks.

- 50MHz/70MHz/100MHz/150MHz bandwidth
- 2 channels, low noise floor, wide vertical range: 1mV/div-20V/div
- Memory depth: 64kpts/daily testing tasks.

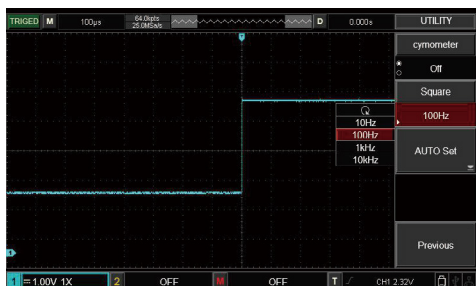
- System software upgrade via USB drive
- 7 inch TFT LCD
- Supports plug-and-play USB storage device, communication with and remote control of computer through the USB device



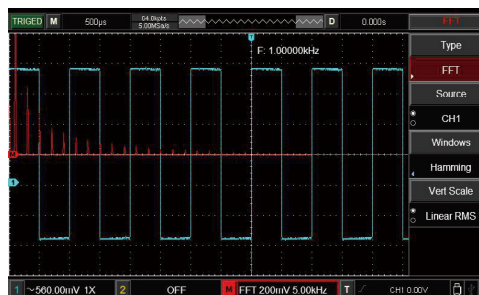
- Wider display range 8divx16div



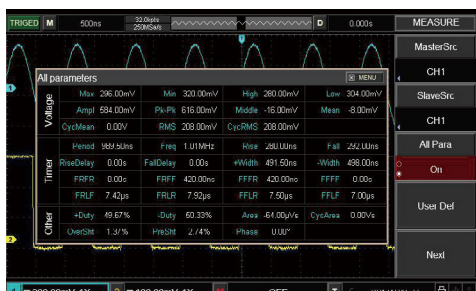
- New autoset function, easy to handle complex test scenarios



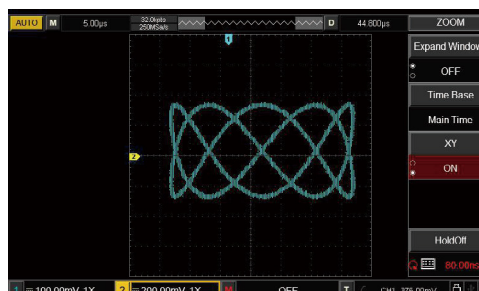
- Multiple frequency output standard square wave optional



- Abundant math functions: math operation, FFT, digital filtering



- Automatic measurement of waveform parameters



- Lissajous figure phase measurement

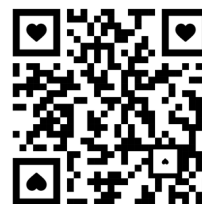
Key Specifications	UTD2052CL+	UTD2102CL+	UTD2072CL	UTD2152CL
Channels	2			
Bandwidth	50MHz	100MHz	70MHz	150MHz
Sample rate	500MS/S			
Memory depth	64kpts			
Waveform capture rate	5, 000wfms/s			
Rise time	<7ns	<3.5ns	< 5ns	<2.4ns
Vertical scale (V/div)	1mV/div-20V/div			
Time base scale (s/div)	2ns/div-50s/div		2ns/div-50s/div	
Timing accuracy	≤± (50+2 × service life) ppm			
Time base modes	Y-T, X-Y, Roll			
Storage methods	Setup, wave, bitmap			
Trigger types	Edge, pulse, alternate, slope, video			
Mathematical operations	A+B, A-B, A×B, A/B, FFT			
Auto measurements	Max, Min, High, Low, Ampl, Pk-Pk, Middle, Mean, CycMean, RMS, CycRMS, Period, Freq,Rise, Fall, RiseDelay, FallDe- lay, +Width, -Width, +Duty, -Duty,FRR, FRF, FFR , FFF, LRF, LRR, LFR, LFF, Area, CycArea, OverSht, PreSht, Phase, 34 paramet ers in total			
Number of measurements	Display 5 measurements at the same time			
Frequency counter	6 bits			
Standard interfaces	USB Host,USB Device,Pass/Fail			

General Characteristics

Power	100-240V AC, 45-440Hz
Display	7 inches TFT LCD, 800x480
Product color	White and grey
Product net weight	2.5kg
Product size (WxHxD)	336mmx164mmx108mm
Standard quantity per carton	2pcs
Standard carton size	450mm x 420mm x 280mm
Standard carton gross weight	6.7kg

Ordering Information

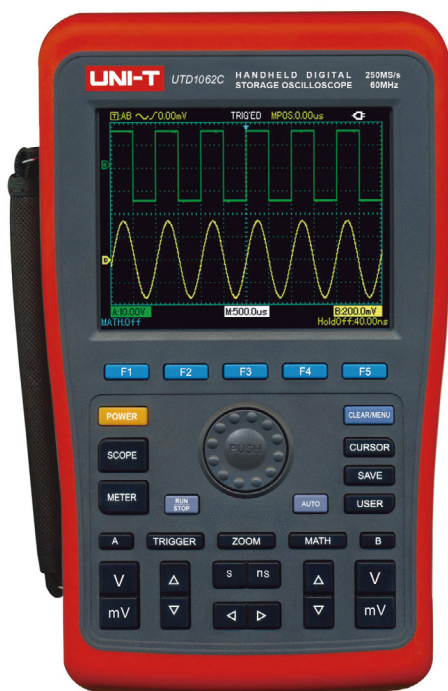
UTD2000CL Series	UTD2152CL:150MHz, 500MS/s, 64kpts, 2-Channel
	UTD2072CL:70MHz, 500MS/s, 64kpts, 2-Channel
	UTD2102CL+:100MHz, 500MS/s, 64Kpts, 2-Channel
	UTD2052CL+:50MHz, 500MS/s, 64Kpts, 2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	UT-P05:Passive probe x 2 (1 x, 10 x switchable, 200MHz)UTD2152CL
	UT-P04:Passive probe x 2 (1 x, 10 x switchable, 100MHz)UTD2072CL,UTD2102CL+
	UT-P03:Passive probe x 2 (1 x, 10 x switchable, 60MHz)UTD2052CL+
	User Manual and Software Download Guide



UTD2000CL/CL+ Series

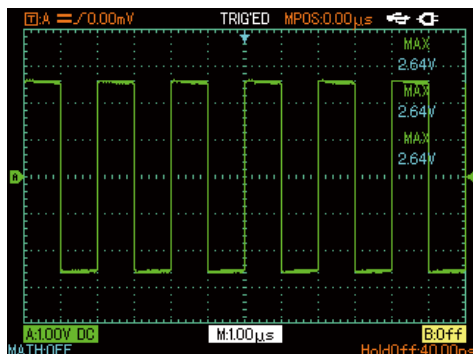
UTD1000C Series

Handheld Digital Storage Oscilloscopes

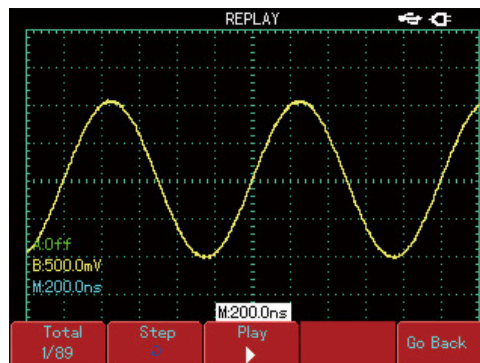


The UTD1000C Series handheld oscilloscope with user-friendly interface is designed to meet your test needs. Its powerful trigger and analytical functions also make it easy to acquire and analyses waveforms, You may either choose to use the external AC power supply or the built-in lithium battery as power source accordingly to your test needs. Classic design with clear user interface aligned with the bench models ensures a hassle-free user experience that will help to complete your daily testing tasks quick and easy.

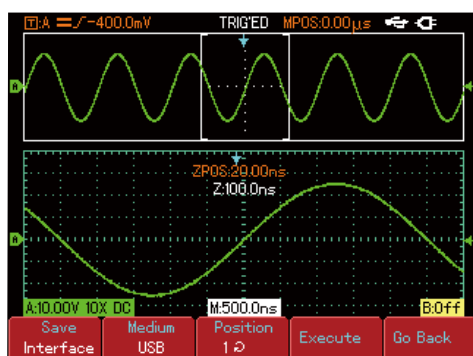
- 500MSa/s real-time Sample rate; 2 analog channels
- Bandwidth: 100MHz
- Multimeter function, 5999 display count
- Fine window extension; precise analysis of waveform details and overview
- Automatic measurement of 27 waveform parameters
- Unique waveform recording, storage and replay function
- Multilingual menu displays
- HD color 5.7 inch LCD panel at 320 x 240 pixel aspect ratio



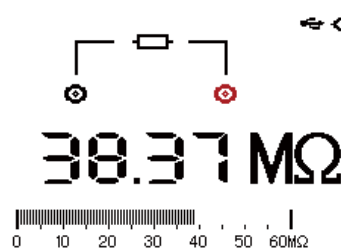
- Fast automatic measurement



- Recorded waveform replay



- Display under window zoom

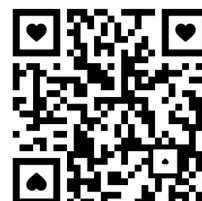


- 5999 display count multimeter function

Key Specifications	UTD1102C
Bandwidth	100MHz
Channels	2
Sample rate	500MSa/s
Rise time	≤3.5ns
Memory depth	7.5kpts
Vertical scale (V/div)	5mV/div-50V/div
Time base scale (s/div)	5ns/div-50s/div
Storage modes	Setup, waveform, bitmap
Trigger types	Edge, pulse width, video and alternative
Standard interfaces	USB Host
Multimeter Specifications	Range
DC voltage (V)	600mV/6V/60V/600V/1000V600mV/6V/60V/600V/1000V
AC voltage (V) (45Hz-400Hz)	600mV/6V/60V/600V/700V/6V/60V/600V/700V
DC current (A)	6mA/60mA/600mA
	6A
AC current (A) (45Hz-400Hz)	6mA/60mA/600mA
	6A
Resistance (Ω)	6kΩ/60kΩ/600kΩ
	600Ω/6MΩ/60MΩ
Capacitance (F)	6nF/6mF
	60nF/600nF/6μF/60μF/600μF/600nF/6μF/60μF/600μF
Display count	5999
Auto range	Auto/manual (Only manual mode is available for current measurement)

General Characteristics	
Power	Li-ion battery: 7.4V 4400mAh; DC adapter: 100-240V 50/60Hz input, 9V/4A output
Display	5.7 inch TFT LCD, QVGA (320x240)
Product color	Red and grey
Product net weight	1.8kg
Product size (W×H×D)	268mm x 168 mm x 60mm
Standard quantity per carton	4pcs
Standard carton size	500mm x 400mm x 320mm
Standard carton gross weight	16.7kg

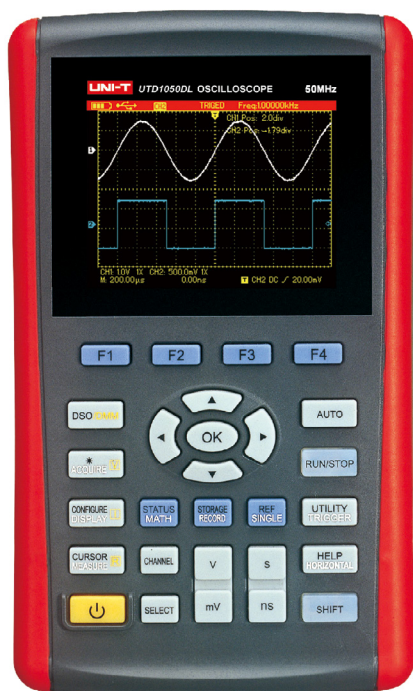
Ordering Information	
UTD1000C Series	UTD1102C: 100MHz, 7.5Kpts, 500MSa/s, 2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-H04: Passive Probe x 2 (1 x, 10 x switchable, 100MHz)
	UT-H05: Passive Probe x 2 (1 x, 10 x switchable, 200MHz)
	UT-M03: 1 Voltage/current converter: 4mA-600mA
	UT-M04: 1 Voltage/current converter: 4A/6A
	DC adapter: 1pc
	1 Multimeter probes Test lead



UTD1000C Series

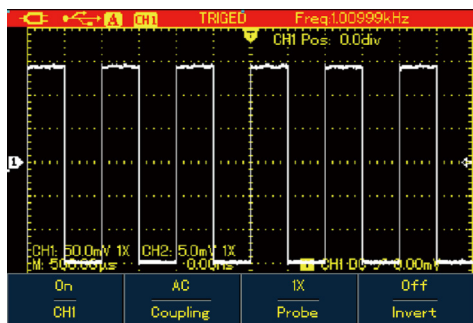
UTD1000L Series

Handheld Digital Storage Oscilloscopes

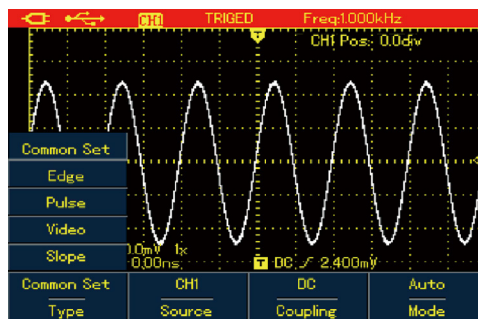


The UTD1000L Series Handheld Digital Storage Oscilloscope with 2-in-1 design serves not only as a digital scope but a multimeter as well. The outstanding features of this model provides you extensive functions that you may need to complete various test and measurement tasks.

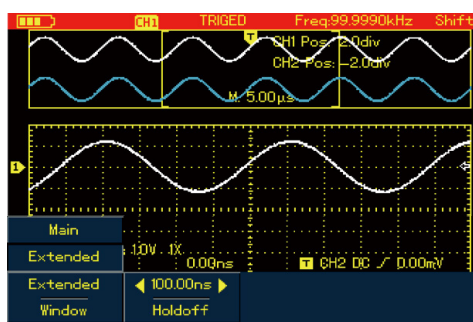
- 250MSa/s, 200MSa/s real-time Sample rate; 1/2 analog channels
- Bandwidth: 25MHz, 50MHz
- Combine oscilloscope multimeter and recorder functions in one, 3999 display count
- 8 hours of continuous battery operation for UTD1000CL and 6 hours for UTD1000DL
- 22 types of auto measurements
- Unique waveform record, storage and replay functions
- High-resolution and high-contrast color LCD
- Simple printscreen function



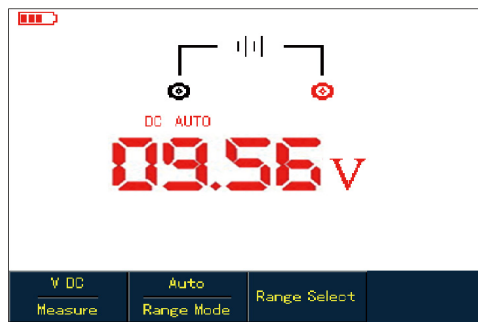
- Full autoset



- Typical and practical trigger function



- Display under window zoom



- 3999 display count multimeter function

Key Specifications	UTD1025CL	UTD1050CL	UTD1025DL	UTD1050DL
BanAC voltage (V)	25MHz	50MHz	25MHz	50MHz
Channels	1		2	
Sample rate	200MS/s		250MS/s	
Rise time	≤14ns	≤7ns	≤14ns	≤7ns
Memory depth	12kpts			
Vertical scale (V/div)	5mV/div-20V/div			
Time base scale (s/div)	10ns/div-50s/div	5ns/div-50s/div	10ns/div-50s/div	5ns/div-50s/div
Storage methods	Setup, waveform, bitmap			
Trigger types	Edge, pulse width, video, slope			
Standard interface	Mini USB			
Multimeter Specifications	Range			Accuracy
DC voltage (V)	400mV/ 4V/ 40V/ 400V			±(1%+5)
AC voltage (V)	400mV/ 4V/ 40V/ 400V			±(1.2%+5)
DC current (A)	400μA/ 4000μA			±(1.2%+5)
	40mA/ 4000mA			±(1%+5)
	4A			±(1.5%+5)
AC current (A)	400μA/ 4000μA			±(2%+5)
	40mA/ 4000mA			±(1.5%+5)
	4A			±(2.5%+5)
Resistance (Ω)	400Ω/4kΩ/40kΩ/400kΩ/4MΩ			±(1.2%+5)
	40MΩ			±(1.5%+5)
Capacitance (F)	51.2nF/512nF/5.12μF/51.2μF/100μF			±(3%+5)
Display count	3999			

General Characteristics

Power	Li-ion battery: 7.4V 3600mAh; DC adapter: 100V-240V, 50/60Hz input, 9V/4A output		
Display	3.5 inch TFT LCD, 320x240		
Product color	Red and grey		
Product net weight	0.9kg		
Product size (W×H×D)	199mm x 118 mm x 49mm		
Standard quantity per carton	2pcs		
Standard carton size	305mm x 190mm x 330mm		
Standard carton gross weight	3.3kg	4.6kg	

Ordering Information

UTD1000DL	UTD1050DL:50MHz, 12Kpts, 250MS/s, 2-Channel
	UTD1025DL:25MHz, 12Kpts, 250MS/s, 2-Channel
UTD1000CL	UTD1050CL:50MHz, 12Kpts, 200MS/s, 1-Channel
	UTD1025CL:25MHz, 12Kpts, 200MS/s, 1-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-H03:Passive probe x 2 (1 x, 10 x switchable, 60MHz)(1000DL)
	UT-H03:Passive probe x 1 (1 x, 10 x switchable, 60MHz)(1000CL)
	UT-M04:1 Voltage/current converter: 4A/6A (1000DL)
	UT-D17:USB Host to Mini USB data cable
	Power adapter:1pc
	Multimeter test leads:1pair (one red, one black)
	Portable bag



UTD1000L Series

Generators

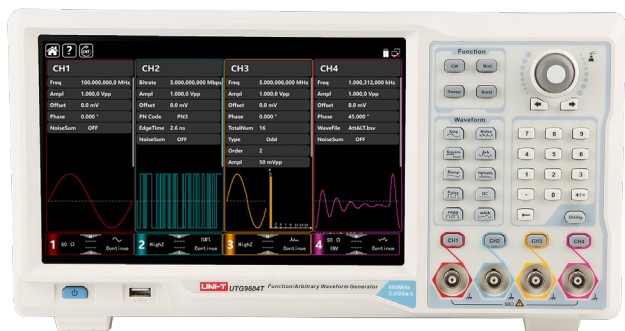
Waveform Generators

Selection Guide

Series	Model	Channels	Sample Rate	Max Frequency											
				600 MHz	500 MHz	350 MHz	200 MHz	160 MHz	120 MHz	80 MHz	60 MHz	40 MHz	30 MHz	25 MHz	20 MHz
UTG9000T	UTG9604T	4	2.5GSa/s	●											
	UTG9504T				●										
	UTG9354T					●									
UTG4000A	UTG4202A	2	500MSa/s				●								
	UTG4162A							●							
	UTG4122A								●						
	UTG4082A									●					
UTG2000X	UTG2122X	2	1.25GSa/s						●						
	UTG2082X									●					
	UTG2062X										●				
UTG1000X	UTG1042X	2	200MSa/s									●			
	UTG1022X														●
	UTG1022X-PA														●
UTG900E	UTG962E	2	200MSa/s								●				
	UTG932E												●		

UTG9000T Series

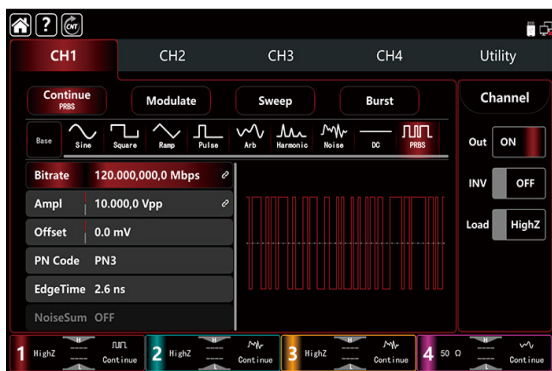
Waveform and Function Generators



The UTG9000T Series pulse/function/arbitrary waveform generators, employing Direct Digital Synthesizer (DDS) technology, produce precise and stable waveform outputs with a bandwidth of 600MHz. They feature a maximum Sample rate of 2.5GSa/s and a resolution as fine as 1μHz. These instruments deliver accurate, stable, pure, and low-distorted signals. With straightforward operation, technical superiority, and the ability to provide high-frequency square waves with rapid rising and falling edges, these multi-functional instruments cater to a variety of requirements.

- 4 channels output
- Output: 600MHz sine wave, full-band resolution: 1μHz
- 200MHz pulse waveform with adjustable rise and fall time
- Sample rate: 2.5GSa/s, vertical resolution: 16-bit
- Arbitrary wave memory depth of 64Mpts, supports point-to-point output.
- Supports one-click SNR output.

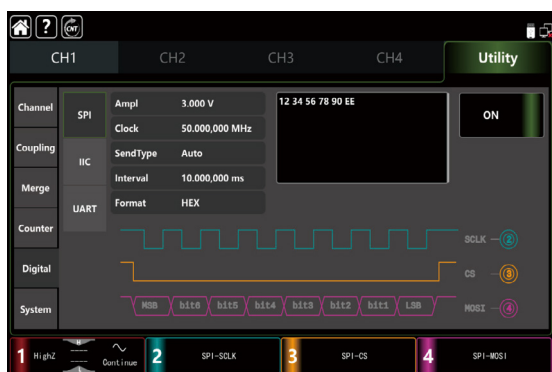
- Frequency sweep modes: linear, logarithmic, list, stepping
- Modulation types: AM, PM, FM, DSBAM, ASK, PSK, BPSK, QPSK, FSK, 3FSK, 4FSK, QAM, OSK, PWM, SUM
- 10.1 inch capacitive touchscreen with 1280*800 resolution
- Digital protocol output: SPI, I2C, UART
- Standard interfaces: USB Host, USB Device, LAN



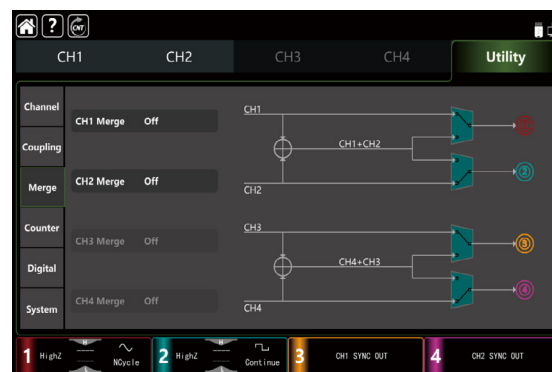
- Support for multiple signal outputs:PRBS



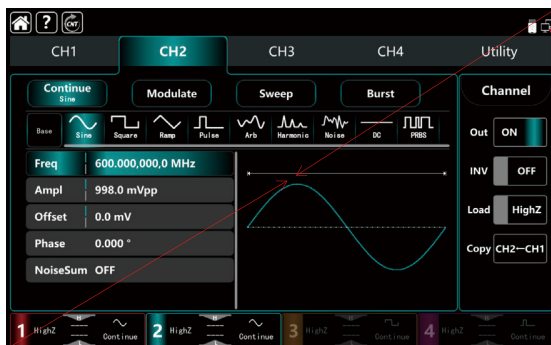
- Arbitrary wave memory depth of 64Mpts, supports point-to-point output.



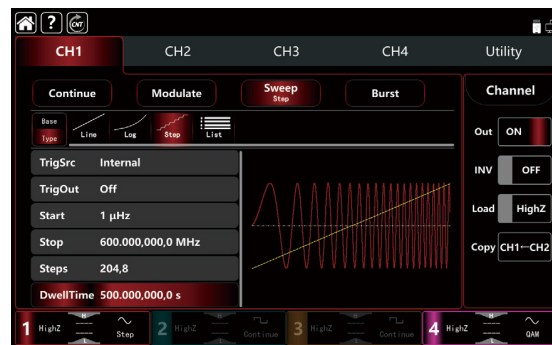
- Digital protocol output: SPI, I2C, UART



- Addition of waveforms And Channels Merge



- 10.1 inch capacitive touchscreen 4 Channel, Sample rate: 2.5GSa/s, vertical resolution: 16-bit



- Rich sweep features: Line, Log, Step, List

Key Specifications	UTG9354T	UTG9504T	UTG9604T	UTG9354T	UTG9504T	UTG9604T
Channel	CH1 & CH2 (Main)			CH3 & CH4 (Slave)		
Max. frequency	350MHz	500MHz	600MHz	160MHz	200MHz	200MHz
Sample rate	2.5GSa/s			625MSa/s		
Vertical resolution	14-bits	14-bits	16-bit	16-bit	16-bit	16-bit
Arbitrary wave length	8pts-64Mpts			8kpts		
Working mode	Continue, modulation, frequency sweep, burst, cymometer, digital protocol					
Continue	Sine, square, ramp, pulse, harmonic, noise, PRBS, DC, arbitrary waveform					
Modulation types	AM, PM, FM, DSBAM, ASK, PSK, BPSK, QPSK, FSK, 3FSK, 4FSK, QAM, OSK, PWM, SUM					
Frequency sweep types	Linear, logarithmic, list, stepping					
Burst types	N cycle, gating, infinite					
Digit types	SPI, I2C, UART					
Hardware cymometer	100mHz-800MHz, DC/AC coupling					
Frequency Characteristics						
Sine wave	1μHz-350MHz	1μHz-500MHz	1μHz-600MHz	1μHz-160MHz	1μHz-200MHz	1μHz-200MHz
Square wave	1μHz-120MHz	1μHz-160MHz	1μHz-200MHz	1μHz-50MHz	1μHz-60MHz	1μHz-60MHz
Pulse wave	1μHz-120MHz	1μHz-160MHz	1μHz-200MHz	1μHz-50MHz	1μHz-60MHz	1μHz-60MHz
Ramp wave	1μHz-20MHz	1μHz-30MHz	1μHz-30MHz	1μHz-8MHz	1μHz-10MHz	1μHz-10MHz
Noise	1mHz-350MHz	1mHz-500MHz	1mHz-600MHz	1mHz-160MHz	1mHz-200MHz	1mHz-200MHz
Arbitrary wave (DDS)	1μHz-80MHz	1μHz-100MHz	1μHz-100MHz	1μHz-50MHz	1μHz-60MHz	1μHz-60MHz
PRBS	1μbps-80Mbps	1μbps-120Mbps	1μbps-120Mbps	1μbps-40Mbps	1μbps-60Mbps	1μbps-60Mbps
Harmonic wave	1μHz-175MHz	1μHz-250MHz	1μHz-300MHz	1μHz-80MHz	1μHz-100MHz	1μHz-100MHz
Frequency resolution	1μHz					
Rise/fall time	1MHz, 1 Vpp, 50Ω load					
	< 2ns	< 2ns	< 1.5ns	< 6ns	< 5ns	< 5ns
Output Characteristics						

Key Specifications	UTG9354T	UTG9504T	UTG9604T	UTG9354T	UTG9504T	UTG9604T
Output amplitude(High Z)	≤40MHz	20Vpp	≤20MHz	20Vpp		
	≤120MHz	10Vpp	≤80MHz	10Vpp		
	≤160MHz	5Vpp	≤120MHz	5Vpp		
	≤300MHz	4Vpp	≤200MHz	3Vpp		
Output amplitude(High Z)	≤400MHz	2.5Vpp	-	-		
	≤500MHz	1.5Vpp	-	-		
	≤600MHz	1Vpp	-	-		
Amplitude accuracy	(1kHz sine wave with 0V offset, >10mVpp)					
	± (1% of set amplitude+1mVpp)					
DC offset range	50 Ω: ± (5 VDC - Peak AC) HighZ: ± (10 VDC - peak AC)					
DC offset accuracy	±1% of offset set value ± 0.5% of amplitude set value ±2mV					
Standard configuration	USB Host, USB Device, LAN					
Output resistance	50Ω					

General Characteristics

Power	100 V to 240 VAC (fluctuate: ±10%), 50 Hz/60 Hz 100 V to 120 VAC (fluctuate: ±10%), 400 Hz
Display	10.1 inches TFT capacitive touchscreen with 1280*800 resolution
Product net weight	4.04kg
Product size (W×H×D)	370mm*115mm*185mm
Standard quantity per carton	1pc
Standard carton size	500mm*305mm*315mm
Standard carton gross weight	6.06kg

Ordering Information

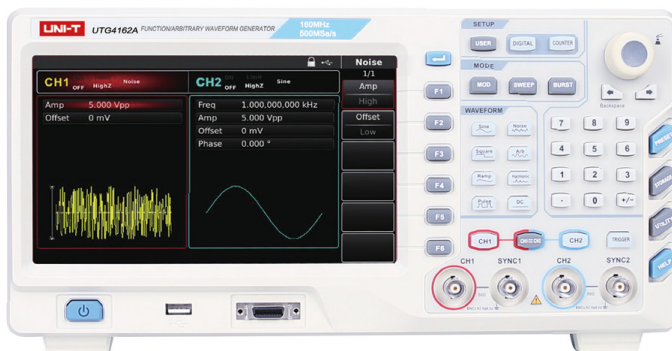
UTG9000T Series	UTG9604T:600MHz, 2.5GSa/s, 64Mpts, 4-Channel
	UTG9504T:500MHz, 2.5GSa/s, 64Mpts, 4-Channel
	UTG9354T:350MHz, 2.5GSa/s, 64Mpts, 4Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	BNC cables (1m):4pcs



UTG9000T Series

UTG4000A Series

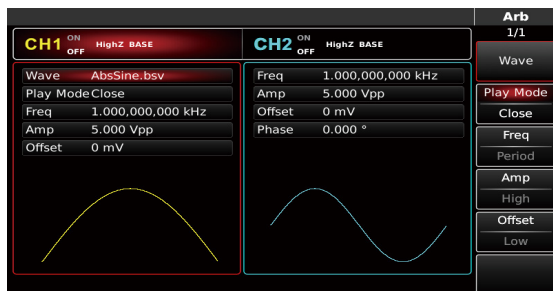
Waveform and Function Generators



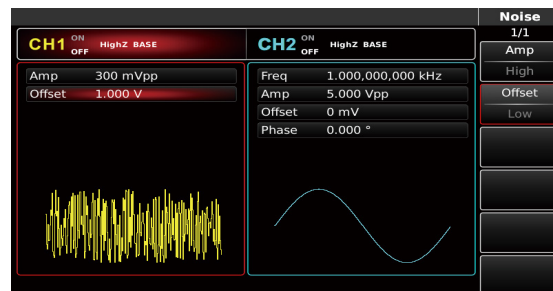
The UTG4000A Series waveform generators boast a multi-function design, making them well-suited for diverse application scenarios. With features such as Function Generation, Arbitrary Waveform Generation, Pulse Generation, Harmonic Generation, Analog/Digital Modulation source, and a frequency counter, the UTG4000A series is capable of handling a wide range of signal emulation applications—from near DC up to 80MHz or even 200MHz, depending on the model and function. Utilizing Direct Digital Synthesizer (DDS) technology, the UTG4000A series ensures the delivery of stable, precise, and low-distortion signals. The sleek, upright design is complemented by a high-resolution 8-inch display screen. Additionally, the user-friendly interface design and panel layout contribute to improved efficiency.

- 80MHz/120MHz/160MHz/200MHz sine waveform output, 1μHz full-band resolution
- 30MHz/40MHz/50MHz pulse waveform, adjustable rise/fall time
- 500MSa/s Sample rate, 16 bits vertical resolution
- Standard dual channels, supporting stand-alone or channel-coupling output mode
- 32Mpts arbitrary waveform depth, 7GB non-volatile arbitrary waveforms

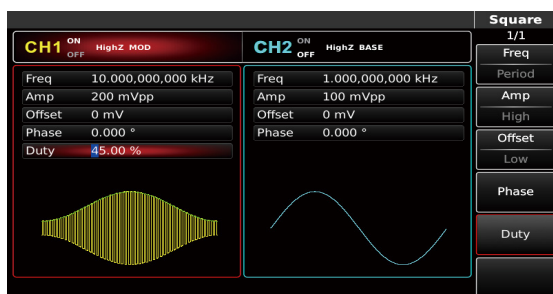
- Versatile modulation options: AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM
- Frequency cymometer range: 100mHz-800MHz
- 8 inch TFT LCD,WVGA (800×480)
- Standard Ports: USB Host, USB Device, LAN, 10MHz Input, 10MHz Output, Frequency Counter, FSK Trig, Modulation In



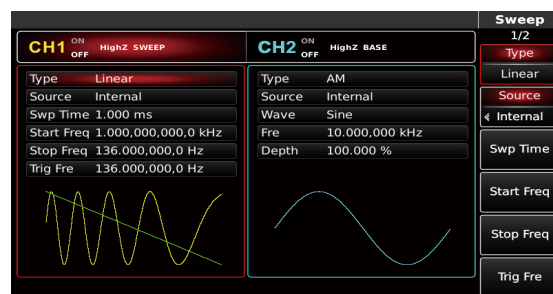
- Built-in arbitrary waveform available at any time



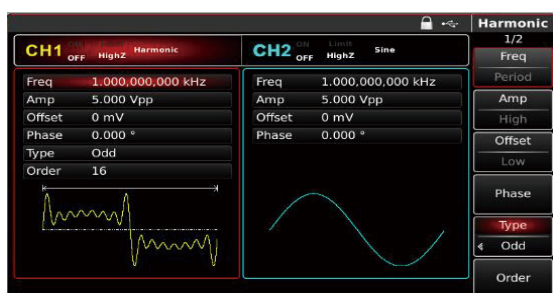
- Noise modes



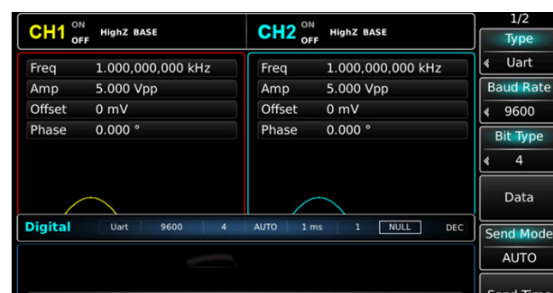
- Rich modulation functions



- Linear and logarithmic sweep waveform



- Customize harmonic generation function



- Optional digital signal output interface: SPI, IIC, UART

Key Specifications	UTG4082A	UTG4122A	UTG4162A	UTG4202A
Max. frequency	80MHz	120MHz	160MHz	200MHz
Channels	2			
Sample rate	500MSa/s			
Waveforms	Sine, square, ramp, harmonic, pulse, noise, DC voltage, arbitrary			
Working modes	Continuous, modulation, sweep, burst			
Modulation types	AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, PWM, SUM, QAM			
Sine	1μHz-80MHz	1μHz-120MHz	1μHz-160MHz	1μHz-200MHz
Square/Pulse	1μHz-30MHz	1μHz-40MHz	1μHz-50MHz	1μHz-60MHz
Ramp	1μHz-2MHz	1μHz-3MHz	1μHz-4MHz	1μHz-5MHz
Harmonic	1μHz-40MHz	1μHz-60MHz	1μHz-80MHz	1μHz-100MHz
Noise (-3dB)	80MHz	120MHz	160MHz	200MHz
Resolution	1μHz			
Arbitrary Waveform				
Frequency range	1μHz-20MHz	1μHz-30MHz	1μHz-40MHz	1μHz-50MHz
Memory depth	8pts-32Mpts	8pts-32Mpts	8pts-32Mpts	8pts-32Mpts
Vertical resolution	16-bit			
Min rise/fall time (typical: 1Vpp)	< 7ns	< 6ns	< 5ns	< 5ns

General Characteristics

Power	100V-240V AC, 50Hz/60Hz
Display	8 inches TFT LCD, WVGA (800 x 480)
Product net weight	3.5kg
Product size(W×H×D)	336mm x 164mm x 108mm
Standard quantity per carton	1pc
Standard carton size	405mm x 225mm x 265mmv
Standard carton gross weight	4.8kg

Ordering Information

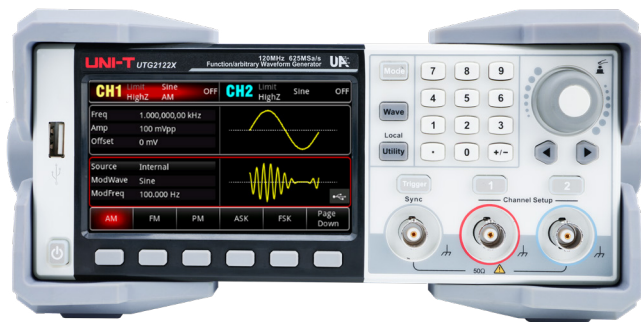
UTG4000A Series	UTG4202A:200MHz, 500MSa/s, 32Mpts, 2-Channel
	UTG4162A:160MHz, 500MSa/s, 32Mpts, 2-Channel
	UTG4122A:120MHz, 500MSa/s, 32Mpts, 2-Channel
	UTG4082A:80MHz, 500MSa/s, 32Mpts, 2-Channel
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	BNC cables(1M):1pair
Optional Accessories	UT-U02:digital cable



UTG4000A Series

UTG2000X Series

Waveform and Function Generators



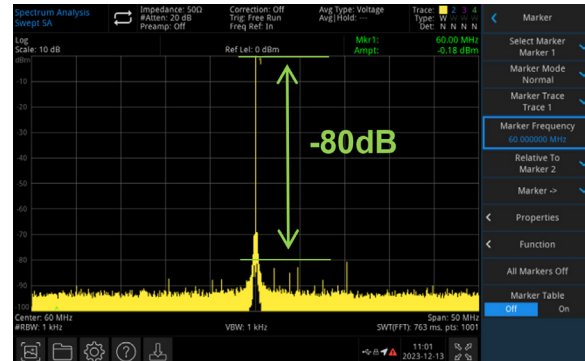
- Dual channel with the maximum frequency output 120 MHz, the maximum output amplitude 20 Vpp
- 625MSa/s (1.25GSa/s, 2x) sample rate and 16-bit vertical resolution
- 11 basic waveforms: Sine, Square, Pulse, Ramp, Arbitrary, Harmonic, Expression, PRBS, Noise, DC, Double Pulse.
- Multiple analog and digital modulation function: AM, PM, FM, DSB-AM, ASK, PSK, BPSK, QPSK, FSK, 3FSK, 4FSK, QAM, OSK, PWM, SUM
- Square wave with the maximum frequency 50 MHz, low jitter
- Wide dynamic and high-precision pulse wave with adjustable edge time, which can achieve fine edge time adjustment and has extremely high adjustment resolution and range
- Excellent performance with low harmonic distortion



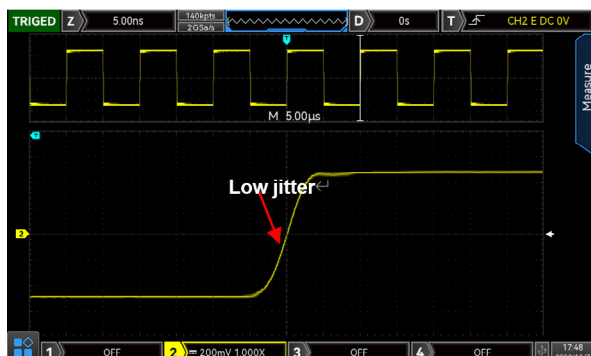
- 4.3-inch full-color display, touch-operable, making instrument control faster and more convenient

The UTG2000X series uses direct digital synthesis technology to produce accurate and stable waveform output with a resolution as low as 1μHz. It is an economical, high-performance, multi-functional function/arbitrary waveform generator. It can generate accurate, stable, pure and low-distortion output signals. With easy operation, superior technical indicators and user-friendly graphic display, it is a multi-purpose device that meets learning and testing needs and improves work efficiency.

- Supports frequency sweep and burst output
- Low jitter waveform can be outputted point by point within the range of arbitrary waveform length from 8pts to 64Mpts
- Supports channel copying, following, and stacking settings
- Can generate any waveform through any waveform editor on the upper computer
- 7 bit HardWave frequency meter
- Built-in 200 arbitrary waves
- Standard USB Host, USB Device, and LAN interface
- Support SCPI programmable instrument standard commands
- 4.3 inches high resolution TFT LCD



- Low distortion output, -80dBc spurious-free dynamic range

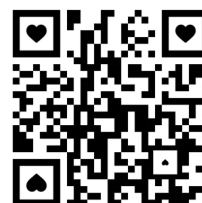


- Excellent digital sampling technology makes the output waveform jitter lower



- The new generation of wide dynamic and high-precision pulse wave with adjustable edge time has a minimum pulse width of 8ns, finely adjustable pulse width, and a minimum step of 100ps

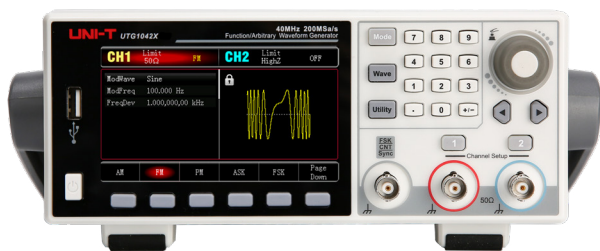
Key Specifications	UTG2062X		UTG2082X	UTG2122X
Channel	2			
Max. frequency	60MHz	80MHz		120MHz
Sample rate	625MSa/s (1.25GSa/s, 2 x interpolation)			
Vertical resolution	16-bit	16-bit		16-bit
Arbitrary wave length	64Mpts			
Working mode	Continuous, Modulation, Frequency sweep, Burst, Counter			
Continue	Sine, Square, Ramp, Pulse, Noise, DC, Arb, Harmonic,PRBS,Expression			
Modulation types	AM,FM,PM,DSB-AM,ASK,FSK,PSK,3FSK,4FSK,BPSK,QPSK,OSK,SUM,QAM,PWM			
Frequency sweep types	Lin, Log, Step			
Burst	N-cycle, Gated, Infinite			
Hardware frequency counter	100mHz-200MHz,7 digits			
Frequency Characteristics				
Sine wave	1μHz-60MHz	1μHz-80MHz		1μHz-120MHz
Square wave	1μHz-30MHz	1μHz-40MHz		1μHz-50MHz
Pulse wave	1μHz-30MHz	1μHz-40MHz		1μHz-50MHz
Ramp wave	1μHz-3MHz	1μHz-4MHz		1μHz-5MHz
Arbitrary wave	1μHz-30MHz	1μHz-40MHz		1μHz-50MHz
Harmonic	1μHz-30MHz	1μHz-40MHz		1μHz-50MHz
Expression	1μHz-15MHz	1μHz-20MHz		1μHz-25MHz
PRBS	1μbps-30Mbps	1μbps-40Mbps		1μbps-50Mbps
Gauss noise	1MHz-60MHz	1MHz-80MHz		1MHz-120MHz
Frequency resolution	1μHz			
Rise/fall time	1 Vpp, 50Ω load			
	<7ns (typical, 1 kHz)	<6ns (typical, 1 kHz)		<5ns (typical, 1 kHz)
Output Characteristics				
Output amplitude(50Ω)	≤20MHz:1mVpp-10Vpp			
	≤60MHz:1mVpp-5Vpp			
	≤120MHz:1mVpp-2Vpp			
Amplitude accuracy	Typical value(1kHz,sine wave,0V,deviation, > 10 mVpp)			
	± (1% of set value+1 mVpp)			
DC offset range	±5V (50Ω); ±10V (High Z)			
DC offset accuracy	Offset set value ±1% ± amplitude set value 0.5%±2mV			
Interface				
Standard configuration	USB Host,USB Device,LAN			
Output Impedance	50Ω			
General Characterisitics				
Power	100-240 VAC (Fluctuations: ±10%), 50 Hz/60Hz; 100-120 VAC (Fluctuations: ±10%), 400 Hz			
Display	4.3 inch TFT LCD WVGA(480×277),capacitive touch			
Product size(W×H×D)	215mm×103mm×316mm			
Product net weight	2.5kg			
Standard quantity per carton	1pc			
Ordering Information				
UTG2000X Series	UTG2062X:60MHz, 625MSa/s(1.25GSa/s,2x) , 64Mpts, 2-Channel			
	UTG2082X:80MHz,625MSa/s(1.25GSa/s,2x), 64Mpts, 2-Channel			
	UTG2122X:120MHz, 625MSa/s(1.25GSa/s,2x), 64Mpts, 2-Channel			
Standard Accessories	Power cord conforming to the standard of the destination country			
	UT-D14:USB interface cable			
	UT-L02A: BNC--red and black alligator clip cable x1			
	UT-L45: BNC cables x1			



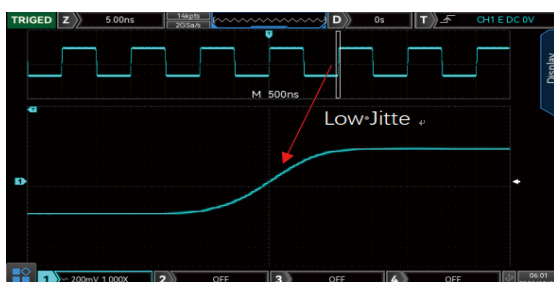
UTG2000X Series

UTG1000X Series

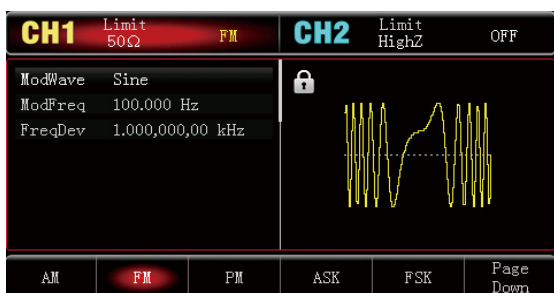
Waveform and Function Generators



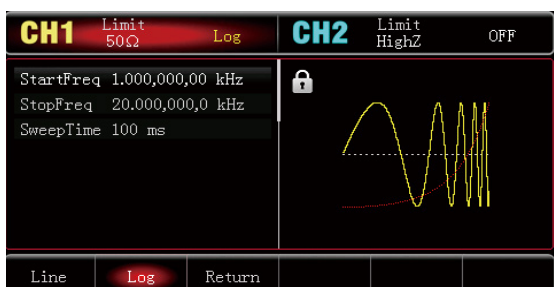
- Dual-channel equivalent performance Maximum output frequency 40 MHz, maximum output amplitude 20 Vpp
- 200MSa/s Sample rate, 16-bit vertical resolution
- The maximum frequency of square wave is 10MHz, and low jitter
- Rich analog and digital modulation function:AM, FM, PM, FSK, ASK, PSK and PWM
- Standard USB Host, USB Device interface
- Support sweep frequency and pulse train output



- Excellent digital sampling technology makes the output waveform jitter lower.



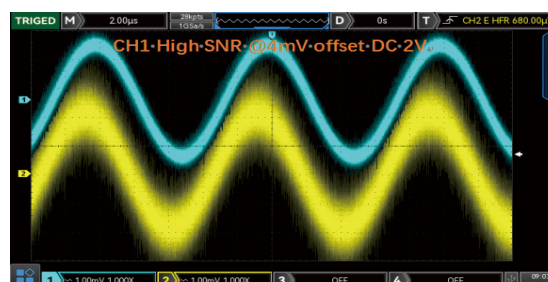
- Support AM, FM, PM, FSK, ASK, PSK and PWM multiple analog and digital modulation methods.



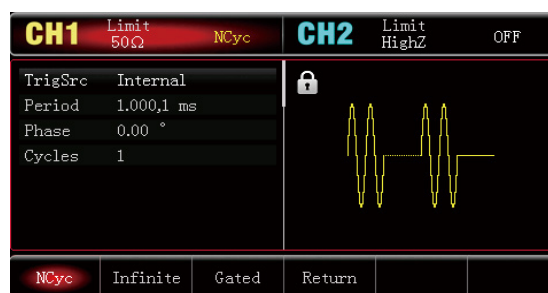
- Support "linear" and "logarithmic" two frequency sweep methods.

The UTG1000X utilizes direct digital synthesis technology, ensuring the generation of precise and stable waveforms with a resolution as fine as 1μHz. This economical, high-performance, and multi-functional/arbitrary waveform generator produces accurate, stable, clean, and low-distortion output signals. It is designed for convenient operation, offering superior technical indicators and a user-friendly graphic display, making it a versatile tool that meets the needs of learning and testing while enhancing work efficiency.

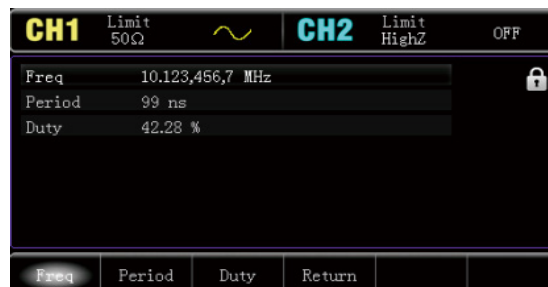
- Built-in power amplifier module, the maximum output power is 4W (-PA model only)
- Arbitrary waveform can be generated by PC software
- 7-digit hardware frequency counter function has lower output noise and higher signal-to-noise ratio.
- Built-in 200 arbitrary waveforms
- 4.3 inch TFT LCD display



- Set small signal to superimpose large DC, UTG1000X has lower output noise and higher signal-to-noise ratio.



- Supports three pulse modes of "N cycle", "infinite" and "gated". "Internal" and "External" two modulation signal sources.

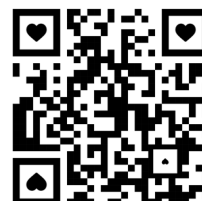


- High-precision frequency meter, which can measure the frequency range of 100mHz-200MHz.

Key Specifications	UTG1022X	UTG1022X-PA	UTG1042X
Channel	2		
Max. frequency	20MHz	20MHz	40MHz
Sample rate	200MSa/s		
Vertical resolution	16-bit	16-bit	16-bit
Arbitrary wave length	4kpts		
Working mode	Continue, modulation, frequency sweep,Burst		
Continue	Sine, Square, Ramp, Pulse, Noise, DC, Arb		
Modulation types	AM, PM, FM, ASK, PSK, FSK, PWM		
Frequency sweep types	Linear, logarithmic		
Hardware frequency counter	100mHz-200MHz		
Frequency Characteristics			
Sine wave	1μHz - 20MHz	1μHz - 20MHz	1μHz-40MHz
Square wave	1μHz - 10MHz	1μHz - 10MHz	1μHz-20MHz
Pulse wave	1μHz - 10MHz	1μHz - 10MHz	1μHz-20MHz
Ramp wave	1μHz - 400kHz	1μHz - 400kHz	1μHz - 1MHz
Noise	40MHz bandwidth (- 3dB)(typical value)	40MHz bandwidth (- 3dB)(typical value)	40MHz bandwidth (- 3dB)(typical value)
Frequency resolution	1μHz		
Rise/fall time	1 Vpp, 50Ω load		
	< 16ns	< 16ns	< 16ns
Output Characteristics			
Output amplitude(50Ω)	≤20MHz		1mVpp-10Vpp
	≤40MHz		1mVpp-5Vpp
Amplitude accuracy	(1kHz sine wave with 0V offset, >10mVpp)		
	± (1% of set value+2 mVpp)		
DC offset range	±5V (50Ω); ±10V (High Z)		
DC offset accuracy	Offset set value ±1% ± amplitude set value 2%±2mV		
Interface			
Standard configuration	USB Host,USB Device,PowerOut (only-PA)		
Output resistance	50Ω		

General Characteristics	
Power	100-240 VAC(Fluctuations:±10%),50 Hz/60HZ; 100-120 VAC (Fluctuations: +10%),400 Hz
Display	4.3 inch TFT LCD WVGA(480×277)
Product size(W×H×D)	215mm*103mm*316mm
Product net weight	2.2kg

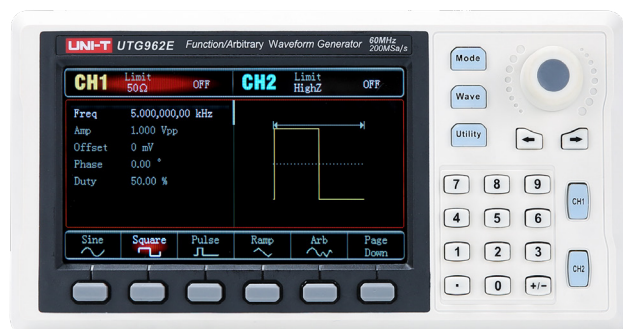
Ordering Information	
UTG1000X Series	UTG1042X:40MHz, 200MSa/s, 4kpts, 2-Channel
	UTG1022X:20MHz, 200MSa/s, 4kpts, 2-Channel
	UTG1022X-PA:20MHz, 200MSa/s, 4kpts, 2-Channel,Power Module
Standard Accessories	Power cord conforming to the standard of the destination country
	UT-D14:USB interface cable
	BNC cables:1pcs,BNC to alligator clip line:1pcs



UTG1000X Series

UTG900E Series

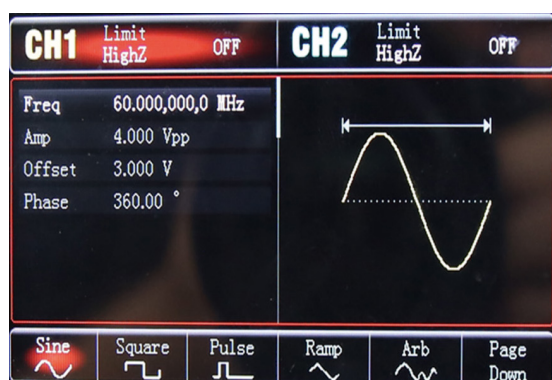
Waveform and Function Generators



The UTG900E Series is an entry-level handheld arbitrary waveform generator that combines high performance with multifunctionality. Featuring a compact design, a 4.3-inch TFT LCD, and a user-friendly interface, this model is well-suited for a range of test scenarios, making your testing tasks more straightforward. Utilizing direct digital synthesis technology, it ensures accurate and stable waveform generation. With a remarkable full-band resolution of up to 1 μ Hz, this generator offers precision in waveform creation.

- 30MHz/60MHz sine waveform output, 1 μ Hz full-band resolution
- 200MSa/s Sample rate, 14 bits vertical resolution, double channels
- Portable handheld mini signal generator
- High-accuracy, broad-band 7 bit frequency counter, range: 100mHz-100MH

- Linear and logarithmic sweep functions
- 24 types of non-volatile waveform stores
- 4.3 inch high resolution color TFT display



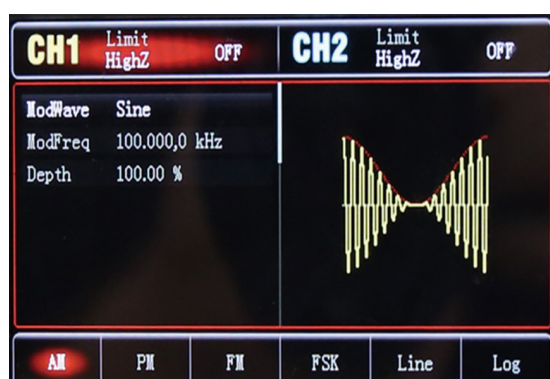
- Standard 2 Channels, multiple waveform signals Maximum output frequency 60MHz, dual channel, multiple waveform signals: sine wave, square, ramp, pulse, noise, DC, arbitrary waveform.



- Built-in 24 arbitrary waveforms 24 kinds of non-volatile digital arbitrary waveform storage.



- Sweep function
Scan type: linear and logarithmic, test scan from low to high, and scan output from high to low.

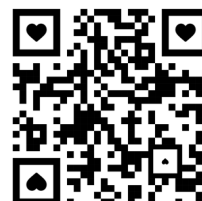


- Modulation function
Easy-to-use modulation types: AM, FM, PM, FSK

Key Specifications	UTG932E	UTG962E
Max. frequency	30MHz	60MHz
Channels	2	
Sample rate	200MSa/s	
Vertical resolution	14 bits	
Waveforms	Sine, square, pulse, ramp, noise, DC, arbitrary	
Sweep modes	Logarithmic, linear	
Frequency Characteristics		
Sine	1μHz-30MHz	1μHz-60MHz
Square	1μHz-15MHz	1μHz-20MHz
Ramp	1μHz-400kHz	1μHz-400kHz
Pulse	1μHz-15MHz	1μHz-20MHz
Arbitrary	1μHz-10MHz	1μHz-10MHz
Resolution	1μHz	
Accuracy	Within 90 days ± 50ppm	
	Within 1 year ± 100ppm	
	18° C-28° C	
Output Characteristics		
Impedance	50Ω	
Amplitude range	1mVpp-10Vpp (50Ω); 2mVpp-20Vpp (high Z)	
DC offset range (AC+DC)	±5V (50Ω); ±10V (high Z)	
Amplitude resolution	1mV	

General Characteristics		
Power	100-240VAC, 50Hz/60Hz	
Display	4.3 inches TFT LCD (480×272)	
Product net weight	0.33kg	
Product size	172mm x 90mm x 68mm	
Standard quantity per carton	4pcs	
Standard carton size	435mm x 360mm x 125mm	
Standard carton gross weight	3.8kg	

Ordering Information		
UTG900E Series	UTG962E:60MHz, 200MSa/s, 2-Channel	
	UTG932E:30MHz, 200MSa/s, 2-Channel	
Standard Accessories	Power cord conforming to the standard of the destination country	
	BNC cable:1pcs,BNC-alligator clip cable(1m):1pcs	
	Power adapter	



UTG900E Series

RF Analog Signal Generators

Selection Guide

Series	Model	Frequency Range	Frequency Resolution	Amplitude Accuracy	Phase Noise	Level Range	Mechanical Attenuator
USG5000M	USG5022M-P	9kHz - 22GHz	0.001Hz	< 0.7dB typ.	-122dBc/Hz (1GHz @20kHz typ.)	-135dBm - +23dBm	Yes
	USG5014M-P	9kHz - 14GHz				-135dBm - +18dBm	No
	USG5014M						
USG3000M	USG3065M-P	9kHz - 6.5GHz	0.001Hz	< 0.7dB typ.	-122dBc/Hz (1GHz @20kHz typ.)	-135dBm - +24dBm	Yes
	USG3065M					-135dBm - +20dBm	No
	USG3045M-P	9kHz - 4.5GHz				-135dBm - +24dBm	Yes
	USG3045M					-135dBm - +20dBm	No

Accessories

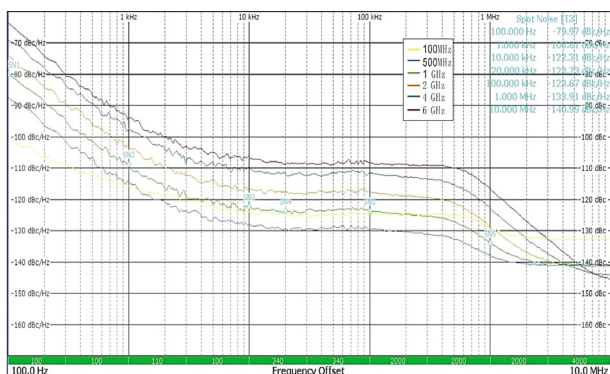
Model	Picture	Information	Certification	Series
UT-CK02		2.92J RF cable (UT-W03-40GHz)×1, 2.92-KKG double female adaptor(UT-C04-40GHz)×2, SMA-N-KJG adaptor(UT-C03-18GHz)×1, Kit pouch(UT-CK02)×1	ROHS	USG5000M
UT-CK01		Spectrum Utility Kit: include NSMAJ-NJ-0.7m DC-6G Cable x1, NJ-NJ-0.7m DC-6G Cable x1, SMA-N-KJ-T DC-6GHz Adapter x2, N-BNC-JK DC-4GHz Adapter x2, 2400MHz-2500MHz Antenna x2, 824-960MHz/1710-1990MHz x2		USG3000M
UT-W03-40GHz		2.92J-2.92J RF cable,DC-40GHz VSWR≤1.25:1@40GHz IL≤3.5dB@40GHz		USG5000M; USG3000M
UT-C04-40GHz		2.92J-2.92J RF cable,DC-40GHz VSWR≤1.25:1@40GHz IL≤3.5dB@40GHz		USG5000M; USG3000M
UT-C03-18GHz		SMA-N-KJG adaptor,DC-18GHz VSWR≤1.15:1@18GHz IL≤0.3dB@18GHz		USG3000M
UT-W02-6GHz		N-SMA-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz		USG3000M
UT-W01-6GHz		N-N-JJ RF cable,0.7m,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz		USG3000M
UT-C01-6GHz		N-SMA-JK adaptor,DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz		USG3000M
UT-C02-4GHz		N-BNC-JK adaptor,DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz		USG3000M

USG5000M Series NEW

RF Analog Signal Generators



- Maximum frequency: 14 GHz / 22 GHz
- Output frequency resolution: 0.001 Hz
- Level range: -135 dBm to 25 dBm
- High signal purity, phase noise < -122 dBc/Hz @ 1 GHz, offset 20 kHz (Typ.)
- Amplitude accuracy ≤ 0.7 dB (Typ.)
- Supports analog modulation: AM, FM, Φ M, Pulse
- Supports modulation mode: Internal, external, and internal + external
- Equipped with a highly stable clock source

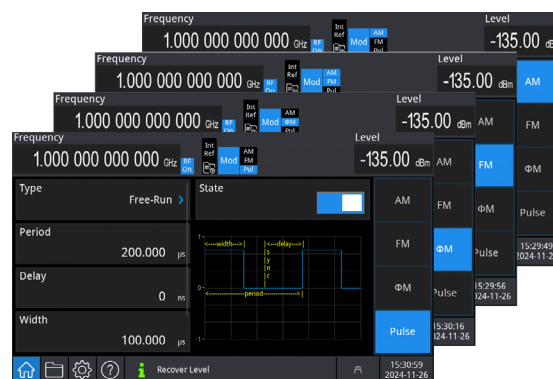


- Low phase noise performance
Phase noise as low as -122 dBc/Hz (1 GHz, 20 kHz offset, Typ.)

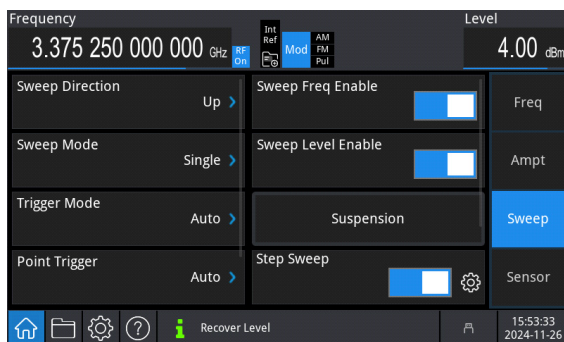
USG5000M series uses a 2U-standard-height chassis. It has an output frequency of up to 22 GHz and a frequency resolution of less than 1 mHz. With its wide frequency coverage, it can be used for local oscillator up-conversion tests or continuous-wave blocking tests.

In terms of power output, it can deliver a maximum of +25 dBm and has a spurious suppression of -60 dBc. When combined with UNI-T's precise step attenuator, it is well-suited for microwave components. It provides the necessary signals for testing devices and modules such as filters, amplifiers, and receivers.

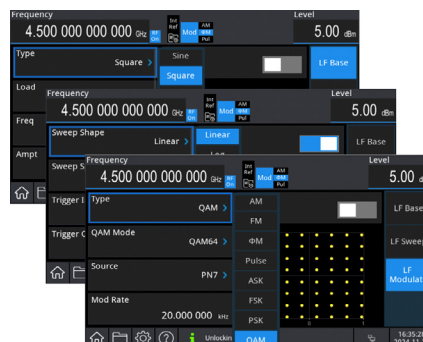
- Power meter kit (Option): Power measurement, power output control, and line loss calibration
- Pulse modulation (Option): On-off ratio of up to 80 dB and customizable pulse trains
- Narrow pulse generator (Option): Minimum pulse width of 20 ns with resolution of 10 ns
- Built-in 50 MHz function/arbitrary waveform generator



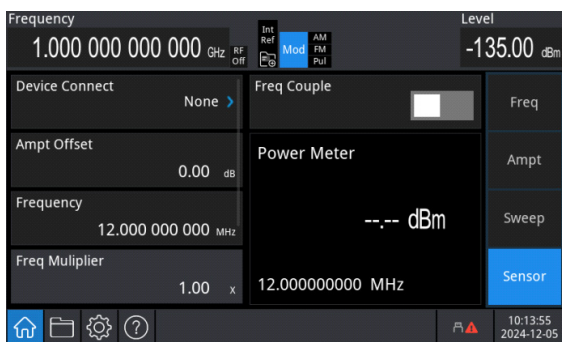
- Analog Modulation
AM, FM, Φ M and Pulse modulation
Supports pulse trains triggering and user-defined pulse trains



- Sweep
Support frequency and amplitude sweep;
Support step sweep, list sweep, user can customize the sweep list

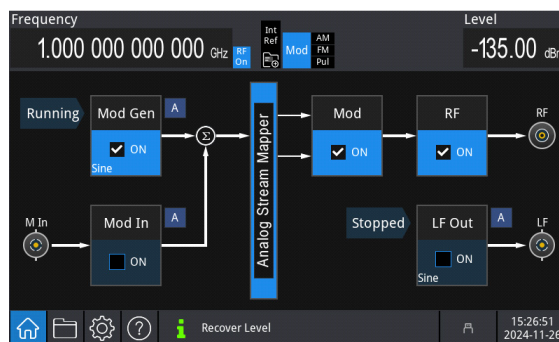


- Function/ Arbitrary Waveform Generator
Max. output frequency 50 MHz
Supports standard waves, sweep and modulation



● Power Meter Kit

The power meter kit connects to the instrument via the front panel USB port, enabling power measurement, power output control, and line loss calibration.



● Flat display interface

With flat design, the human-machine interface is simple and easy to use. Waveforms can be visualized and switched between time domain and frequency domain waveforms on demand

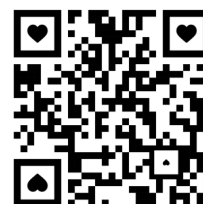
Key Specifications	USG5014M	USG5014M-P	USG5022M-P
Frequency range	9 kHz - 14 GHz	9 kHz - 14 GHz	9 kHz - 22GHz
Frequency resolution	0.001Hz	0.001Hz	0.001Hz
Mechanical attenuator	No	Yes	Yes
Settable level range	-135 dBm to + 25 dBm		
Maximum Output Power			
9 kHz to 5MHz	+ 13 dBm	+ 16 dBm	+ 16 dBm
>5 MHz to 250 MHz	+ 14 dBm	+ 17 dBm	+ 17 dBm
>250 MHz to 3.6 GHz	+ 18 dBm	+ 23 dBm	+ 23 dBm
>3.6 GHz to 7.5 GHz	+ 15 dBm	+ 20 dBm	+ 20 dBm
>7.5 GHz to 14 GHz	+ 12 dBm	+ 18 dBm	+ 18 dBm
>14 GHz to 22 GHz	- -	+ 16 dBm	+ 16 dBm
Absolute level accuracy	≤ 0.7 dB (Typ.)		
Phase noise	< -122 dBc/Hz @ 1 GHz, offset 20 kHz (Typ.)		
Reference output	10 MHz, ≥ 0 dBm (Nom.), 50 Ω		
Reference input	10 MHz, 0 dBm to +20 dBm (Nom.), 50 Ω		
Sweep mode	Frequency and amplitude, Step sweep, list sweep		
Sweep point	2 to 65535 (Step sweep) 1 to 500 (List sweep)		
Dwell time	100 μs to 100 s		
Analog modulation mode	FM, AM, ΦM, Pulse (option)		
Narrow pulse (option) period	40 ns to 42 s		
Narrow pulse (option) width	20 ns to (Pulse period -20 ns)		
Narrow pulse (option) resolution	10 ns		
Internal Function Generator (LF)			
Waveform	Sine, square, pulse, triangular, arbitrary, DC, noise		
Frequency range	Sine wave 0.001 Hz to 50 MHz Square, pulse, arbitrary waves 0.001 Hz to 15 MHz Triangular wave 0.001 Hz to 3 MHz		
Sweep mode	Linear, logarithmic, step		
Modulation mode	AM, FM, ΦM, Pulse, ASK, FSK, PSK, QAM		
Interface	USB Host, USB Device, LAN, GPIB (option), Trigger In, Trigger Out, Mod In, Pulse input, Pulse output, 10MHz Ref In, 10MHz Ref Out, Signal Out		

General Characteristics

Power	100 to 240 VAC (Fluctuation: $\pm 10\%$), 50 Hz/60 Hz 100 to 120 VAC (Fluctuation: $\pm 10\%$), 400 Hz
Display	5 inch TFT capacitive touchscreen with 800*480 resolution
Product size(W×H×D)	400mm×88mm×426mm
Product net weight	13.4kg
Standard quantity per carton	1pc
Standard carton size	720mm×695mm×340mm
Standard carton gross weight	16.3kg

Ordering Information

USG5000M Series	Freq: 9kHz - 22GHz; Level: -135dBm - +23dBm; Amplitude Accuracy: ≤ 0.7 dB; Phase Noise: -122dBc/Hz; Display: 5 inch touch screen; With Mechanical Attenuator	USG5022M-P
	Freq: 9kHz - 14GHz; Level: -135dBm - +23dBm; Amplitude Accuracy: ≤ 0.7 dB; Phase Noise: -122dBc/Hz; Display: 5 inch touch screen; With Mechanical Attenuator	USG5014M-P
	Freq: 9kHz - 14GHz; Level: -135dBm - +18dBm; Amplitude Accuracy: ≤ 0.7 dB; Phase Noise: -122dBc/Hz; Display: 5 inch touch screen	USG5014M
Standard Accessories	Compliant with the host country's standards Power cord x1	--
	USB data cable x1	--
Optional Accessories	2.92J-2.92J RF cable,1m,DC-40GHz VSWR $\leq 1.25:1$ @40GHz IL ≤ 3.5 dB@40GHz	UT-W03-40GHz
	2.92-KKG adaptor,DC-40GHz VSWR $\leq 1.20:1$ @40GHz IL ≤ 0.3 dB@40GHz	UT-C04-40GHz
	SMA-N-KJG adaptor,DC-18GHz VSWR $\leq 1.15:1$ @18GHz IL ≤ 0.3 dB@18GHz	UT-C03-18GHz
	UT-CK02 accessories kit	UT-CK02
Software Options	Pulse modulation kit for USG5000M series	USG5000M-PM
	Narrow-pulse generator kit for USG5000M series	USG5000M-PG
	Power meter test kit for USG5000M series	USG5000M-PK
	GPIO controller for USG5000M series (factory option)	USG5000M-GPIB



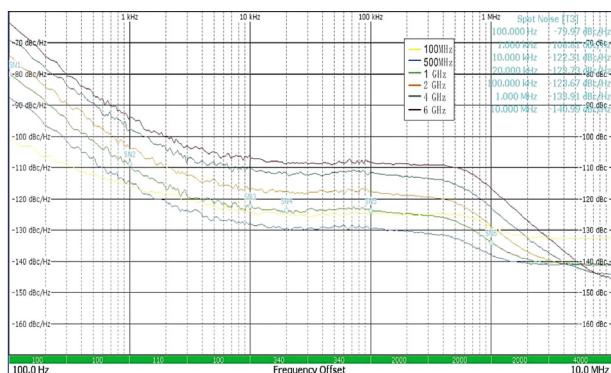
USG5000M Series

USG3000M Series

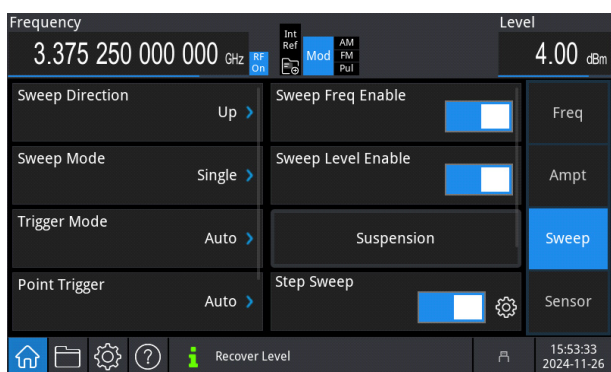
RF Analog Signal Generators



- Maximum frequency: 4.5 GHz / 6.5 GHz
- Output frequency resolution: 0.001 Hz
- Level range: -135 dBm to 25 dBm
- High signal purity, phase noise < -122 dBc/Hz @ 1 GHz, offset 20 kHz (Typ.)
- Amplitude accuracy ≤ 0.7 dB (Typ.)
- Supports analog modulation: AM, FM, Φ M, Pulse
- Supports modulation mode: Internal, external, and internal + external



- Low phase noise performance
- Phase noise as low as -122 dBc/Hz (1 GHz, 20 kHz offset, Typ.)

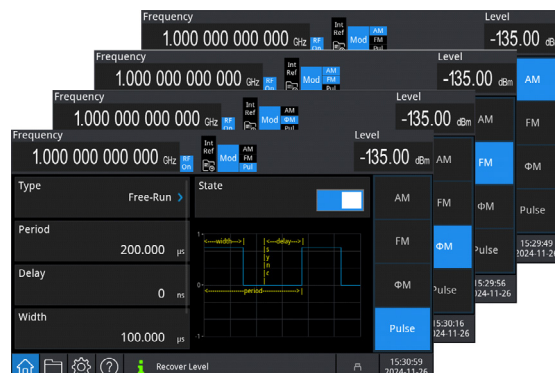


- Sweep
- Support frequency and amplitude sweep;
Support step sweep, list sweep, user can customize the sweep list

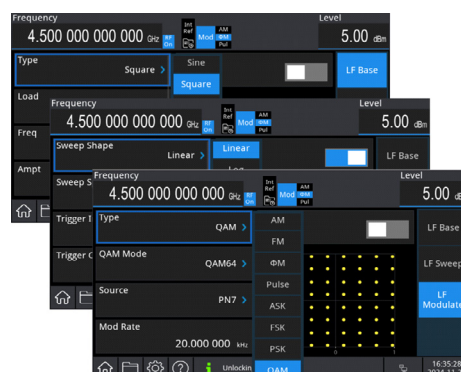
USG3000M series uses a 2U-standard-height chassis. It has an output frequency of up to 6.5 GHz and a frequency resolution of less than 1 mHz. With its wide frequency coverage, it can be used for local oscillator up-conversion tests or continuous-wave blocking tests.

In terms of power output, it can deliver a maximum of +25 dBm and has a spurious suppression of -60 dBc. When combined with UNI-T's precise step attenuator, it is well-suited for microwave components. It provides the necessary signals for testing devices and modules such as filters, amplifiers, and receivers.

- Equipped with a highly stable clock source
- Power meter kit (Option): Power measurement, power output control, and line loss calibration
- Pulse modulation (Option): On-off ratio of up to 80 dB and customizable pulse trains
- Narrow pulse generator (Option): Minimum pulse width of 20 ns with resolution of 10 ns
- Built-in 50 MHz function/arbitrary waveform generator



- Analog Modulation
- AM, FM, Φ M and Pulse modulation
Supports pulse trains triggering and user-defined pulse trains

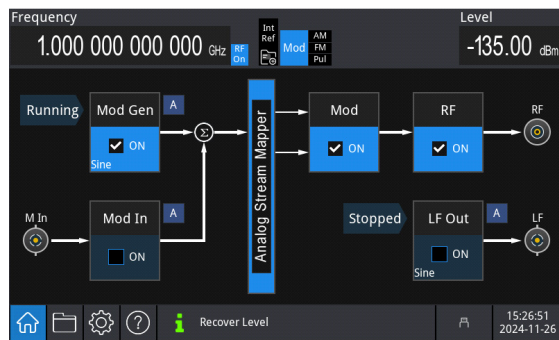


- Function/ Arbitrary Waveform Generator
- Max. output frequency 50 MHz
Supports standard waves, sweep and modulation



● Power Meter Kit

The power meter kit connects to the instrument via the front panel USB port, enabling power measurement, power output control, and line loss calibration.



● Flat display interface

With flat design, the human-machine interface is simple and easy to use. Waveforms can be visualized and switched between time domain and frequency domain waveforms on demand

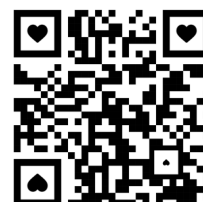
Key Specifications	USG3045M	USG3045M-P	USG3065M	USG3065M-P
Frequency range	9 kHz - 4.5 GHz	9 kHz - 4.5 GHz	9 kHz - 6.5 GHz	9 kHz - 6.5 GHz
Frequency resolution	0.001Hz	0.001Hz	0.001Hz	0.001Hz
Mechanical attenuator	No	Yes	No	Yes
Settable level range	-135 dBm to + 25 dBm			
Maximum Output Power				
9 kHz to 5MHz	+ 13 dBm	+ 15 dBm	+ 13 dBm	+ 15 dBm
>5 MHz to 250 MHz	+ 14 dBm	+ 20 dBm	+ 14 dBm	+ 20 dBm
>250 MHz to 1.2 GHz	+ 20 dBm	+ 24 dBm	+ 20 dBm	+ 24 dBm
>1.2 GHz to 3.6 GHz	+ 18 dBm	+ 22 dBm	+ 18 dBm	+ 22 dBm
>3.6 GHz to 6.5 GHz	+ 15 dBm	+ 20 dBm	+ 15 dBm	+ 20 dBm
Absolute level accuracy	≤ 0.7 dB (Typ.)			
Phase noise	< -122 dBc/Hz @ 1 GHz, offset 20 kHz (Typ.)			
Reference output	10 MHz, ≥ 0 dBm (Nom.), 50 Ω			
Reference input	10 MHz, 0 dBm to +20 dBm (Nom.), 50 Ω			
Sweep mode	Frequency and amplitude, Step sweep, list sweep			
Sweep point	2 to 65535 (Step sweep) 1 to 500 (List sweep)			
Dwell time	100 μs to 100 s			
Analog modulation mode	FM, AM, ΦM, Pulse (option)			
Narrow pulse (option) period	40 ns to 42 s			
Narrow pulse (option) width	20 ns to (Pulse period -20 ns)			
Narrow pulse (option) resolution	10 ns			
Internal Function Generator (LF)				
Waveform	Sine, square, pulse, triangular, arbitrary, DC, noise			
Frequency range	Sine wave 0.001 Hz to 50 MHz Square, pulse, arbitrary waves 0.001 Hz to 15 MHz Triangular wave 0.001 Hz to 3 MHz			
Sweep mode	Linear, logarithmic, step			
Modulation mode	AM, FM, ΦM, Pulse, ASK, FSK, PSK, QAM			
Interface	USB Host, USB Device, LAN, GPIB (option), Trigger In, Trigger Out, Mod In, Pulse input, Pulse output, 10MHz Ref In, 10MHz Ref Out, Signal Out			

General Characteristics

Power	100 to 240 VAC (Fluctuation: $\pm 10\%$), 50 Hz/60 Hz 100 to 120 VAC (Fluctuation: $\pm 10\%$), 400 Hz
Display	5 inch TFT capacitive touchscreen with 800*480 resolution
Product size(W×H×D)	400mm×88mm×426mm
Product net weight	13.4kg
Standard quantity per carton	1pc
Standard carton size	720mm×695mm×340mm
Standard carton gross weight	16.3kg

Ordering Information

USG3000M Series	Freq: 9kHz - 6.5GHz; Level: -135dBm - +24dBm; Amplitude Accuracy: ≤ 0.7 dB; Phase Noise: -122dBc/Hz; Display: 5 inch touch screen; With Mechanical Attenuator	USG3065M-P
	Freq: 9kHz - 6.5GHz; Level: -135dBm - +20dBm; Amplitude Accuracy: ≤ 0.7 dB; Phase Noise: -122dBc/Hz; Display: 5 inch touch screen	USG3065M
	Freq: 9kHz - 4.5GHz; Level: -135dBm - +24dBm; Amplitude Accuracy: ≤ 0.7 dB; Phase Noise: -122dBc/Hz; Display: 5 inch touch screen; With Mechanical Attenuator	USG3045M-P
	Freq: 9kHz - 4.5GHz; Level: -135dBm - +20dBm; Amplitude Accuracy: ≤ 0.7 dB; Phase Noise: -122dBc/Hz; Display: 5 inch touch screen	USG3045M
Standard Accessories	Compliant with the host country's standards Power cord x1	--
	USB data cable x1	--
Optional Accessories	NSMAJ-NJ-0.7m DC-6G Cable	UT-W02-6GHz
	NJ-NJ-0.7m DC-6G Cable	UT-W01-6GHz
	SMA-N-KJ-T DC-6GHz Adapter	UT-C01-6GHz
	N-BNC-JK DC-4GHz Adapter	UT-C02-4GHz
	UT-CK01 accessories kit	UT-CK01
Software Options	Pulse modulation kit for USG3000M series	USG3000M-PM
	Narrow-pulse generator kit for USG3000M series	USG3000M-PG
	Power meter test kit for USG3000M series	USG3000M-PK
	GPIO controller for USG3000M series (factory option)	USG3000M-GPIO



USG3000M Series

Spectrum/Signal Analyzers

Selection Guide

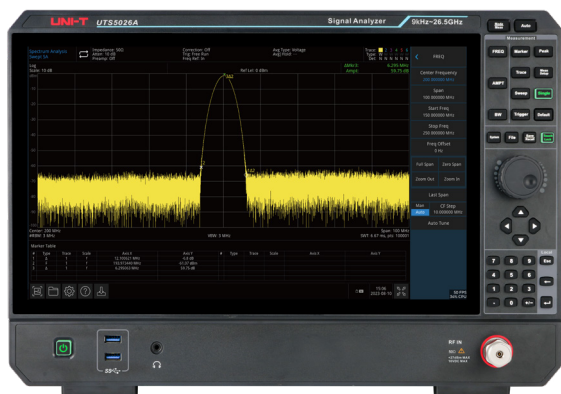
Series	Model	Frequency Range	Frequency Resolution	RBW	Phase Noise	DANL	Tracking Generators
UTS5000A	UTS5026A	9kHz - 26.5 GHz	0.001Hz	1Hz-3MHz (10% Steps) 4,5,6,8MHz	<-107 dBc/Hz (Typical value)@10kHz	<-163dBm/Hz	no
	UTS5013A	9kHz - 13.6 GHz					
UTS3000A	UTS3084A	9 kHz-8.4 GHz	1 Hz	1Hz-10MHz(1-3-10 Step)	<-102 dBc/Hz (Typical value)@10kHz	<-165 dBm	yes
	UTS3060A	9 kHz-6GHz					
	UTS3036A	9 kHz-3.6 GHz					
UTS3000T+	UTS3084T+	9 kHz-8.4 GHz	1 Hz	1Hz-3 MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161 dBm	yes
	UTS3036T+	9 kHz-3.6 GHz		1Hz-1 MHz			
	UTS3032T+	9 kHz-3.2 GHz					
	UTS3015T+	9 kHz-1.5 GHz					
UTS3000B	UTS3084T	9 kHz-8.4 GHz	1 Hz	1Hz-3 MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161 dBm	yes
	UTS3084B	9 kHz-8.4 GHz					no
	UTS3036B	9 kHz-3.6 GHz					Optional
	UTS3021B	9 kHz-2.1 GHz					
UTS1000B	UTS1032T	9 kHz-3.2 GHz	1 Hz	1 Hz-1 MHz	<-98 dBc/Hz (Typical value)@10kHz	<-161dBm	yes
	UTS1032B	9 kHz-3.2 GHz					no
	UTS1015T	9 kHz-1.5 GHz					yes
	UTS1015B	9 kHz-1.5 GHz					no

Accessories

Model	Picture	Information	Certification	Series
UT-CK01		Spectrum Utility Kit: include NSMAJ-NJ-0.7m DC-6G Cable x1, NJ-NJ-0.7m DC-6G Cable x1, SMA-N-KJ-T DC-6GHz Adapter x2, N-BNC-JK DC-4GHz Adapter x2, 2400MHz-2500MHz Antenna x2, 824-960MHz/1710-1990MHz x2	ROHS	UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B
UT-CK02		2.92J RF cable (UT-W03-40GHz)x1, 2.92-KKG double female adaptor(UT-C04-40GHz)x2, SMA-N-KJG adaptor(UT-C03-18GHz)x1, Kit pouch(UT-CK02)x1		UTS5000A
UTS-EMIO1		Frequency range: 30MHz - 3GHz; include 3 Pcs magnetic field near-field probes and 1 Pcs electric field near field probe; 1 Pcs N-SMA cable, 1 Pcs N-BNC		UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B;
BAG-B3		Soft carrying bag for UTS1000B and UTS3000B Series Spectrum Analyzers		UTS3000B; UTS1000B;
UT-W02-6GHz		N-SMA-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz		UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B;
UT-W01-6GHz		N-N-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz		UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B;
UT-W03-40GHz		2.92J-2.92J RF cable,DC-40GHz VSWR≤1.25:1@40GHz IL≤3.5dB@40GHz		UTS5000A
UT-C02-4GHz		N-BNC-JK adaptor,DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz		UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B;
UT-C01-6GHz		N-SMA-JK adaptor,DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz		UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B;
UTS-T01		Receiving antenna, working frequency 2400MHz-2500MHz, Gain<2dBi		UTS5000A; UTS3000A; UTS3000T+; UTS3000B; UTS1000B;
UTS-T02		Receiving antenna, working frequency 824MHz-960MHz, Gain<2dBi		UTS5000A; UTS3000B; UTS1000B; UTS3000A; UTS3000T+;
UT-C04-40GHz		2.92-KKG adaptor,DC-40GHz VSWR≤1.20:1@40GHz IL≤0.3dB@40GHz		UTS5000A
UT-C03-18GHz		SMA-N-KJG adaptor,DC-18GHz VSWR≤1.15:1@18GHz IL≤0.3dB@18GHz		UTS5000A
UT-3009F		Female VNA Calibration Kit(9GHz)		UTS3000A
UT-3009M		Male VNA Calibration Kit(9GHz)		UTS3000A
UT-3009F/M		Female-Male VNA Calibration Kit(9GHz)		UTS3000A
UT-RB60		Reflection bridge for spectrum analyzer(6GHz)		UTS3000T+
UT-VNA18-3.5M-NM		VNA Test Cable Kit(18GHz)		UTS3000A

UTS5000A Series

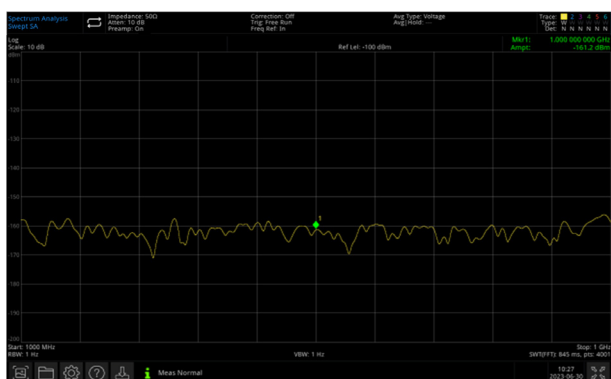
Signal Analyzers



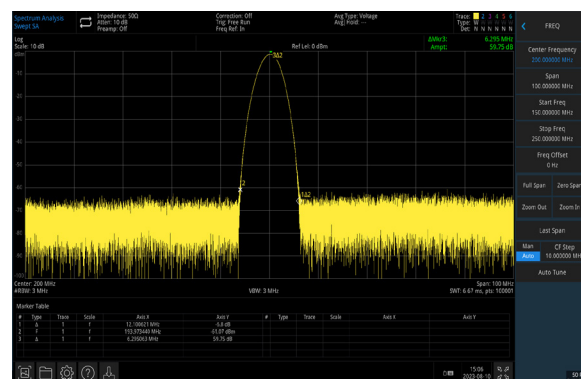
The UTS5000A series is a signal analyzer with a frequency range of 9 kHz to 26.5 GHz. It can be used as the main equipment required to build an automatic control system. It can also meet your needs in the test systems required for corporate R&D/factory production/education and scientific research, etc.

- Frequency range 9kHz to 26.5 GHz
- DANL: -163 dBm(typical value)
- Phase noise: <-107 dBc/Hz (at 10 kHz offset, typical)
- Sweep points up to 100001 points
- Minimum Resolution Bandwidth (RBW) 1 Hz
- Support advanced one-key measurement (option)

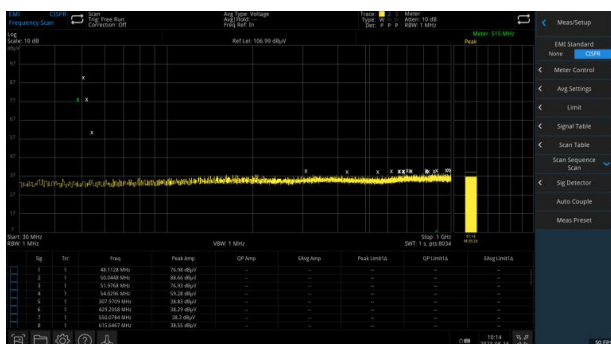
- EMI Analysis Function (optional)
- Support Analog Demodulation Analysis (optional)
- Support Digital Demodulation Analysis (optional)
- Support I/Q Analysis (optional)
- Configuration 15.6 inches 1920x1080 high-definition thin film transistor LCD display



- Excellent sensitivity to test weaker signals



- Excellent selectivity. Scan 100001 points



- EMI pre-compliance



- Removable dust mesh

Key Specifications	UTS5013A	UTS5026A
Frequency range	9kHz-13.6 GHz	9kHz-26.5 GHz
Frequency resolution	0.001Hz	
Sweep width range	0Hz,10Hz-13.6GHz	0Hz,10Hz-26.5GHz
Sweep accuracy	Swept: $\pm[0.25\% \times \text{span} + \text{horizontal resolution}]$	
	FFT: $\pm[0.10\% \times \text{span} + \text{horizontal resolution}]$	
Sweep time	Span = 0 Hz, 1 μ s to 6000 s; Span $\geq$ 10 Hz, 1 ms to 4000 s	
Marker mode	Normal, Delta Δ , Fixed	
Marker function	Marker Noise, Band Power, Band Density, N dB, Counter	
RBW (-3 dB)	1 Hz-3MHz (10% step), 4, 5, 6, 8MHz	
Video bandwidth (VBW)	1 Hz-3MHz (10% step), 4, 5, 6, 8MHz	
Selectivity (-60 dB/-3 dB)	<4.1:1(Nominal) -60dB:-3dB	
Reference level	-170 dBm to +30 dBm, 0.01 dB Steps	
Preamplifier	+20 dBm nominal	
Input attenuator range	0 to 50 dB, 2 dB Steps	
Trace detectors	Normal, peak, sample, negative peak, log power average, RMS average, and voltage average	
Trace type	Clear/Write,Average,Max Hold,Min Hold	
Scale units	dBm,dBmV,dB μ V,V,W	
Sweep (trace) point range	11 to 100001	
Advanced Measurement	Power Suite Measurement, Nonlinear Measurement, Spectrum Monitoring	
Modulation Analysis	AM Measurement, FM Measurement	
Vector signal analysis	ASK(2 ASK); FSK: 2 FSK, 4 FSK, 8 FSK, 16 FSK; MSK(GMSK); PSK: BPSK, QPSK, OQPSK, 8PSK; DPSK: DBPSK, DQPSK, D8PSK, $\pi/4$ -DQPSK, $\pi/8$ -D8PSK; QAM: 16,32,64,128,256	
Signal analyzer analysis bandwidth	Up to 25 MHz	
Interface	RF input,10MHz reference IN,10MHz reference OUT,External trigger input,HDMI,USB-Host,USB-Device,LAN	

General Characteristics	
Power	100-240V AC($\pm$ 10%), 50Hz/60Hz 100 to 120 VAC (Fluctuations $\pm$ 10%) 400 Hz
Display	15.6" TFT LCD (1920x1080) touch
Product size(WxHxD)	445mmx311mmx195mm
Product net weight	11kg
Standard quantity per carton	1pc

Ordering Information

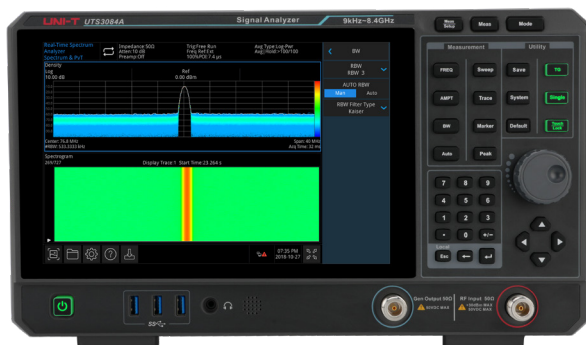
UTS5000A Series	UTS5026A: 26.5 GHz, 1Hz-8 MHz, -163 dBm
	UTS5013A: 13.6 GHz, 1Hz-8 MHz, -163 dBm
Standard Accessories	Power cord conforming to the standard of the destination country x1
	USB cable x1
Optional Accessories	UTS-CK01: UT-W02-6GHz x1, UT-W01-6GHz x1, UT-C02-4GHz x2, UT-C01-6GHz x2, UTS-T01 x2, UTS-T02 x2, Kit pouch x1
	UTS-CK02: UT-W03-40GHz x1, UT-C04-40GHz x2, UT-C03-18GHz x1, Kit pouch x1
	UTS-EMI01: Frequency range: 30MHz - 3GHz; include 3 Pcs magnetic field near-field probes and 1 Pcs electric field near field probe; 1 Pcs SMB-SMA cable, 1 Pcs N-SMA adaptor
	UT-W02-6GHz: N-SMA-JJ RF cable, DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-W01-6GHz: N-N-JJ RF cable, DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-W03-40GHz: 2.92J-2.92J RF cable, DC-40GHz VSWR≤1.25:1@40GHz IL≤3.5dB@40GHz
	UT-C02-4GHz: N-BNC-JK adaptor, DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz
	UT-C01-6GHz: N-SMA-JK adaptor, DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz
	UTS-T01: Receiving antenna, working frequency 2400MHz-2500MHz, Gain<2dBi
	UTS-T02: Receiving antenna, working frequency 824MHz-960MHz, Gain<2dBi
	UT-C04-40GHz: 2.92-KKG adaptor, DC-40GHz VSWR≤1.20:1@40GHz IL≤0.3dB@40GHz
	UT-C03-18GHz: SMA-N-KJG adaptor, DC-18GHz VSWR≤1.15:1@18GHz IL≤0.3dB@18GHz
Software Options	UTS5000A-AMK: Advanced measurement kit
	UTS5000A-EMI: EMI measurement option
	UTS5000A-AMA: Analog demodulation measurement option
	UTS5001A-P26: UTS5026A Preamplifier, 26.5 GHz
	UTS5000A-VSA: Digital demodulation analysis option
	UTS5000A-IQ: I/Q Analysis



UTS5000A Series

UTS3000A Series NEW

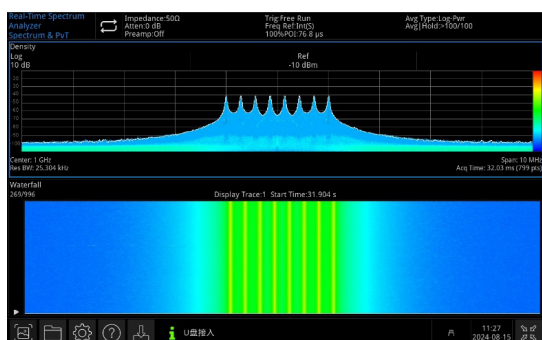
Signal Analyzers



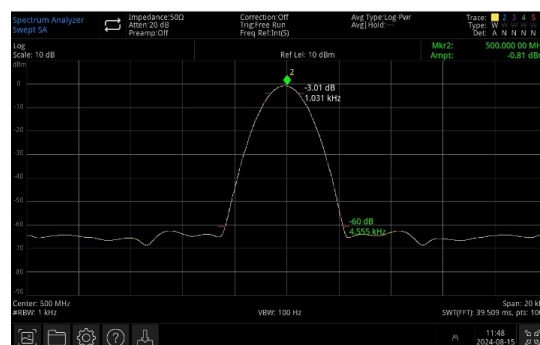
The UTS3000A series is a signal analyzer with a frequency range of 9 kHz to 8.4 GHz. It can be used as the main equipment required to build an automatic control system. It can also meet your needs in the test systems required for corporate R&D/factory production/education and scientific research, etc.

- Frequency range 9 kHz to 8.4 GHz
- DANL: -165 dBm (typical value)
- Phase noise: <-102 dBc/Hz (at 10 kHz offset, typical)
- Sweep points up to 40001 points
- Minimum Resolution Bandwidth (RBW) 1 Hz
- Support advanced one-key measurement (option)
- EMI Analysis Function (optional)

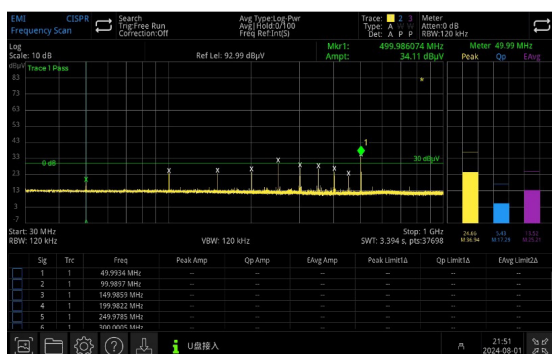
- Support Analog Demodulation Analysis (optional)
- Support Digital Demodulation Analysis (optional)
- Support Real-time Spectrum Analysis
- Support I/Q Analysis (optional)
- Support Vector Network Analysis
- 10.1 inch high-definition capacitive touch display



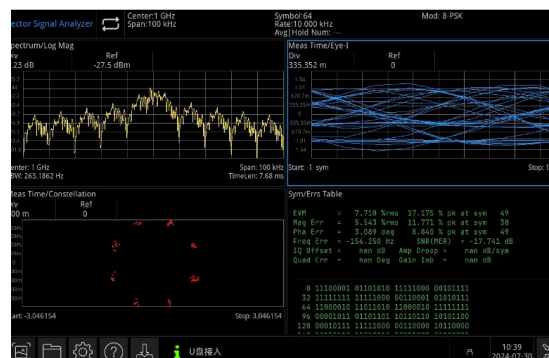
- Real-time spectrum mode, using density spectrograms for gapless spectrum display.



- Excellent selectivity.



- EMI pre-compliance



- Provide AM/FM/PM analog signal analysis; ASK/FSK/PSKQAM/MSK/DPSK digital signal analysis and EVM calculation

Key Specifications	UTS3036A	UTS3060A	UTS3084A
Frequency range	9kHz-3.6 GHz	9kHz-6.0 GHz	9kHz- 8.4 GHz
Frequency resolution	1Hz	1Hz	1Hz
Sweep width range	0Hz,100Hz- 3.6GHz	0Hz,100Hz - 6.0GHz	0Hz,100Hz - 8.4GHz
Sweep accuracy	Swept: $\pm[0.25\% \times \text{span} + \text{span}/(\text{sweep point} - 1)]$		
	FFT: $\pm[0.10\% \times \text{span} + \text{span}/(\text{sweep point} - 1)]$		
Sweep time	Span = 0 Hz, 1 μ s to 4000 s; Span $\neq$ 0 Hz, 1 ms to 4000 s		
Marker mode	Normal, Delta Δ , Fixed		
Marker function	Marker Noise, Band Power, Band Density, N dB, Counter		
RBW (-3 dB)	1 Hz - 10MHz (1-3-10 step)		
Video bandwidth (VBW)	1 Hz - 10MHz (1-3-10 step)		
Selectivity (-60 dB/-3 dB)	<4.8:1(Nominal) -60dB:-3dB		
Reference level	-102 dBm to +30 dBm,1 dB Steps		
Preamplifier	+20 dBm nominal		
Input attenuator range	0 to 51 dB,1 dB Steps		
Trace detectors	Sample,Peak,Negative,Normal,Average		
Trace type	Clear/Write,Average,Max Hold,Min Hold		
Scale units	dBm,dBmV,dB μ V,V,W		
Sweep (trace) point range	40001		
Tracking generator	100 kHz - 3.6 GHz	100 kHz- 6 GHz	100 kHz- 6 GHz
Vector network analysis	S11,S21,DTF		
Advanced Measurement	Power Suite Measurement, Nonlinear Measurement, Spectrum Monitoring		
Modulation Analysis	AM Measurement, FM Measurement ,PM Measurement		
Vector signal analysis	ASK:2ASK,4ASK,8ASK,16ASK FSK: 2FSK,4FSK,8FSK,16FSK MSK:type1,type2 PSK: BPSK,QPSK,OQPSK,8PSK,BPSK,QPSK,8BPSK; DQPSK,D8PSK, $\pi/4$ -DQPSK, $\pi/8$ -D8PSK,OQPSK QAM: 16,32,64,128,256		
Real-time analysis bandwidth	Up to 10 MHz; Option up to 40 MHz		
Interface	RF input, TG Output,10MHz reference IN,10MHz reference OUT,External trigger input,HDMI,USB-Host, USB-Device,LAN,3.5mm		

General Characteristics	
Power	100-240V AC($\pm 10\%$), 50Hz/60Hz 100 to 120 VAC (Fluctuations $\pm 10\%$) 400 Hz
Display	10.1" TFT LCD (1280x800) touch
Product size(WxHxD)	378mmx218mmx120mm
Product net weight	4.96 kg
Standard quantity per carton	1pc

Ordering Information	
UTS3000A Series	UTS3084A: Freq: 9kHz~8.4GHz; RBW: 1Hz~10MHz; DANL: -165dBm; Phase noise:<-102dBc/Hz; Full amplitude accuracy:<0.7dB; Display: 10.1 inch touch screen, VNA
	UTS3060A: Freq: 9kHz~6GHz; RBW: 1Hz~10MHz; DANL: -165dBm; Phase noise:<-102dBc/Hz; Full amplitude accuracy:<0.7dB; Display: 10.1 inch touch screen, VNA
	UTS3036A: Freq: 9kHz~3.6GHz; RBW: 1Hz~10MHz; DANL: -165dBm; Phase noise:<-102dBc/Hz; Full amplitude accuracy:<0.7dB; Display: 10.1 inch touch screen, VNA
Standard Accessories	Power cord conforming to the standard of the destination country x1
	USB cable x1
Optional Accessories	UTS-CK01: UT-W02-6GHz x1, UT-W01-6GHz x1, UT-C02-4GHz x2, UT-C01-6GHz x2, UTS-T01 x2, UTS-T02 x2, Kit pouchx1
	UTS-EMI01: Frequency range: 30MHz - 3GHz; include 3 Pcs magnetic field near-field probes and 1 Pcs electric field near field probe; 1 Pcs SMB-SMA cable, 1 Pcs N-SMA adaptor
	UT-3009F/M: Feale-Male VNA Calibration Kit(9GHz)
	UT-W02-6GHz: N-SMA-JJ RF cable, DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-W01-6GHz: N-N-JJ RF cable, DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-C02-4GHz: N-BNC-JK adaptor, DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz
	UT-C01-6GHz: N-SMA-JK adaptor, DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz
	UTS-T01: Receiving antenna, working frequency 2400MHz-2500MHz, Gain<2dBi
	UTS-T02: Receiving antenna, working frequency 824MHz-960MHz, Gain<2dBi
Software Options	UTS3000A-EMI: EMI Measurement option for UTS3000A series
	UTS3000A-AMK: Advanced measurement kit for UTS3000A series
	UTS3000A-AMA: Analog demodulation measurement option for UTS3000A series
	UTS3000A-FDD-LTE: FDD-LTE demodulation analysis option for UTS3000A series
	UTS3000A-I/Q: I/Q Analyzer option for UTS3000A series
	UTS3000A-TDD-LTE: TDD-LTE demodulation analysis option for UTS3000A series
	UTS3000A-NR: 5G NR demodulation analysis option for UTS3000A series
	UTS3000A-B40: Signal analysis bandwidth 40MHz option for UTS3000A series



UTS3000A Series

UTS3000T+ Series

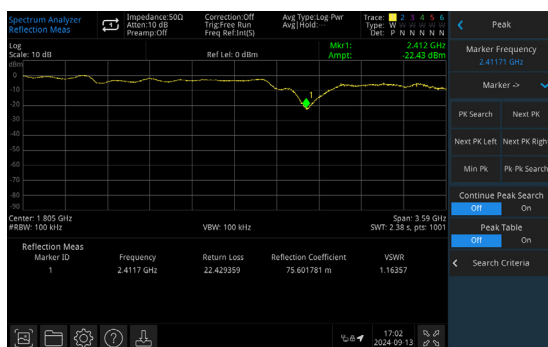
Spectrum/Signal Analyzers

NEW

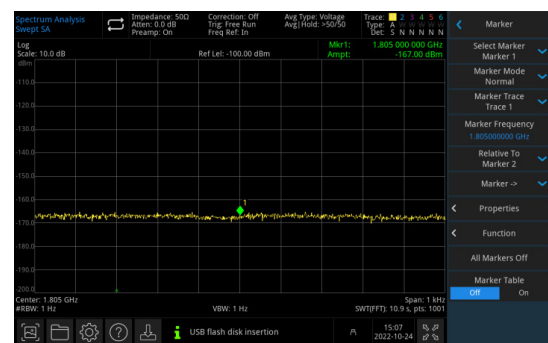


The UTS3000T+ series are equipped with the tracking source function as standard. With proven all-digital technology and a resolution bandwidth of 1 Hz to 3 MHz/1 MHz, this series offers a wide range of analytical functions with 40,001/10,001 sweep points to better help you in your analysis work. The 10.1-inch touch screen of this spectrometer will bring you a better using experience. Compact and beautiful structural design, multiple ports, and support for common protocols provide convenience for automation and remote control. The UTS3000T+ series can be widely used in communications, semiconductors, computers, aerospace, defense, instrumentation, industrial electronics, consumer electronics, automotive electronics, field maintenance, R&D/education, and many other fields.

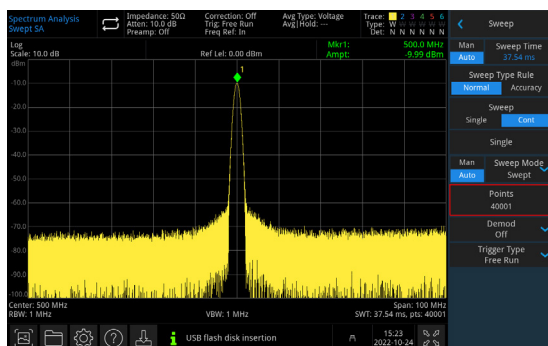
- Frequency measurement range: 9 kHz to 1.5 GHz, 3.2 GHz, 3.6 GHz, 8.4 GHz
- Display average noise level can be as low as -161 dBm (typical value)
- Phase noise <-98 dBc/Hz (Offset 10 kHz, typical value)
- Full amplitude accuracy <0.7 dB
- Minimum resolution bandwidth (RBW) 1 Hz
- Advanced function one key measurement (optional)
- Reflection measurement
- EMI Pre-compliance analysis function (optional)
- Support analog demodulation analysis (optional)
- Support tracking source output function
- 10.1 inch 1280 × 800 HD capacitive touch screen



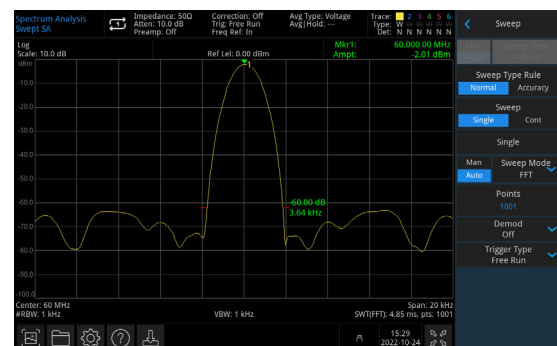
- Reflection measurement



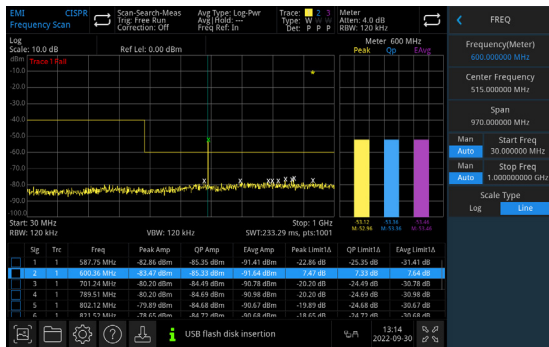
- Excellent sensitivity to test weaker signal



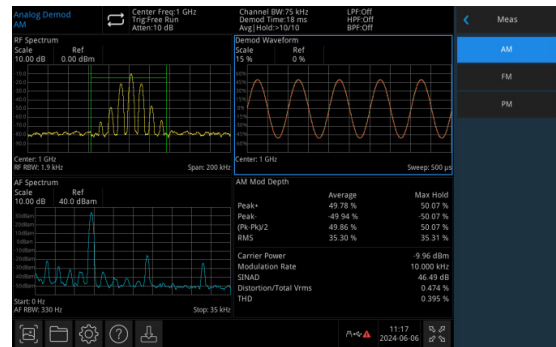
- 40,001 sweep points, providing higher frequency resolution



- Excellent selectivity



● Optional EMI pre-compliance analysis function



● Provides demodulation analysis of AM, FM, PM analog signals

Key Specifications		UTS3015T+	UTS3032T+	UTS3036T+	UTS3084T+
Frequency range		9 kHz - 1.5 GHz	9 kHz-3.2 GHz	9 kHz-3.6 GHz	9 kHz-8.4 GHz
Frequency resolution		1Hz	1Hz	1Hz	1Hz
Sweep range		0Hz,100Hz- 1.5GHz	0Hz,100Hz - 3.2 GHz	0Hz,100Hz - 3.6GHz	0Hz,100Hz - 8.4GHz
Sweep accuracy		Swept $\pm[0.25\% \cdot \text{Span} + \text{Span}/(\text{Points}-1)]$ FFT $\pm[0.10\% \cdot \text{Span} + \text{Span}/(\text{Points}-1)]$			
Sweep time		1 ms to 4000 s (span $\neq$ 0) 1 μ s to 4000 s (span = 0)			
Sweep mode		Swept, FFT			
Marker mode		Normal, Delta Δ , Fixed			
Marker function		Marker Noise, Band Power, Band Density, NdB, Counter			
RBW (-3 dB)		1 Hz-1 MHz, 1-3-10 steps		1 Hz-3 MHz, 1-3-10 steps	
Video bandwidth (VBW)		1 Hz-1 MHz, 1-3-10 steps		1 Hz-3 MHz, 1-3-10 steps	
Selectivity (-60 dB/-3 dB)		<4.8:1 (nominal) (-60dB:-3dB)		<4.8:1 (nominal) (-60dB:-3dB)	
Bandwidth accuracy (-3dB)		< 5% (nominal)		< 5% (nominal)	
Reference level		-100 dBm - +30 dBm, Steps 1 dB		-100 dBm - +30 dBm, Steps 1 dB	
Preamp		20 dB, Nominal	20 dB, Nominal	20 dB, Nominal	20 dB, Nominal
Input attenuator range		0-51 dB, 1 dB Steps	0-51 dB, 1 dB Steps	0-51 dB, 1 dB Steps	0-51 dB, 1 dB Steps
Maximum input DC voltage		50 V DC max	50 V DC max	50 V DC max	50 V DC max
Maximum continuous wave RF power		$\leq +33$ dBm 3 minute, Input attenuation >20 dB		$\leq +33$ dBm 3 minute, Input attenuation >20 dB	
Display log scale		1 dB to 200 dB	1 dB to 200 dB	1 dB to 200 dB	1 dB to 200 dB
Display linear scale		0 -Reference level	0 -Reference level	0 -Reference level	0 -Reference level
Scale units		dBm, dBmV, dBuV, V, W	dBm, dBmV, dBuV, V, W	dBm, dBmV, dBuV, V, W	dBm, dBmV, dBuV, V, W
Sweep (trace) point range		10001		40001	
Number of traces		4		6	
Detection mode		Sample, Peak, Negative, Normal, Average		Sample, Peak, Negative, Normal, Average	
Trace Type		Clear/Write, Average, Max Hold, Min Hold		Clear/Write, Average, Max Hold, Min Hold	
Frequency re- sponse	Preamp Off	9 kHz to 3.2 GHz: ± 0.6 dB; ± 0.3 dB, Typical		9 kHz to 3.6 GHz: ± 0.6 dB; ± 0.3 dB, Typical 3.6 GHz to 8.4 GHz: ± 0.6 dB, Typical	
	Preamp On	100 kHz to 3.2 GHz: ± 1.0 dB; ± 0.8 dB, Typical		100 kHz to 3.6 GHz: ± 1.0 dB; ± 0.8 dB, Typical 3.6 GHz to 8.4 GHz: ± 1.2 dB; ± 1.0 dB, Typical	

Key Specifications		UTS3015T+	UTS3032T+	UTS3036T+	UTS3084T+
Tracking generator	Frequency range	100kHz-1.5 GHz	10MHz-3.2 GHz	100kHz-3.6 GHz	100 kHz-6 GHz
	Output level range	-40 dBm-0 dBm		-40 dBm-0 dBm	
	Resolution	0.5 dB		0.5 dB	
	Flatness output	±3 dB		±3 dB	
Interface		RF input,Tracking generator output,10MHz reference input, 10MHz reference output,Ext Trigger,HDMI,USB host, USB device,LAN,Headphone Jack			

General Characteristics	
Power	100-240V AC, 50Hz/60Hz 100 to 120 VAC (Fluctuations±10%),400 Hz
Display	10.1 "TFT LCD (1280x800) touch
Product size(WxHxD)	378 mm×218 mm×120 mm
Product net weight	4.55kg
Standard quantity per carton	1pc

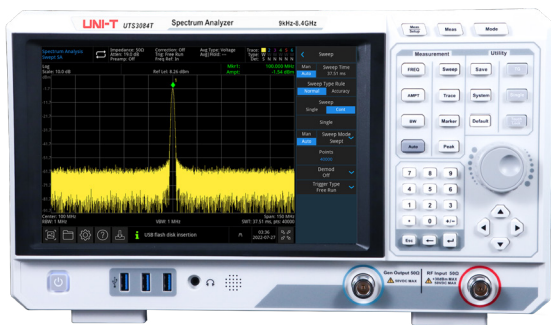
Ordering Information	
UTS3000T+ Series	UTS3084T+: 8.4 GHz, 1Hz-3 MHz, -161 dBm,with built-in Tracking generator
	UTS3036T+: 3.6 GHz, 1Hz-3 MHz, -161 dBm,with built-in Tracking generator
	UTS3032T+: 3.2 GHz, 1Hz-1 MHz, -161 dBm,with built-in Tracking generator
	UTS3015T+: 1.5 GHz, 1Hz-1 MHz, -161 dBm,with built-in Tracking generator
Standard Accessories	Power cord conforming to the standard of the destination country ×1
	USB cable ×1
Optional Accessories	UT-CK01: accessories kit
	UT-W02-6GHz:N-SMA-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-W01-6GHz:N-N-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-C02-4GHz:N-BNC-JK adaptor,DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz
	UT-C01-6GHz:N-SMA-JK adaptor,DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz
	UTS-T01:Receiving antenna,working frequency 2400MHz-2500MHz,Gain<2dBi
	UTS-T02:Receiving antenna,working frequency 824MHz-960MHz,Gain<2dBi
	UTS-EMI01: Near-field probes kit
	UT-RB60: Reflection bridge for spectrum analyzer(6GHz)
	BAG-B3:Soft carrying bag for UTS1000B and UTS3000B Series Spectrum Analyzers
Software Options	UTS3000-AMK: Advanced measurement kit (For UTS3084T+, UTS3036T+)
	UTS3000-EMI: EMI measurement option (For UTS3084T+, UTS3036T+)
	UTS3000-AMA: Analog demodulation measurement option (For UTS3084T+, UTS3036T+)
	UTS1000-AMK: Advanced measurement kit (For UTS3032T+, UTS3015T+)
	UTS1000-EMI: EMI measurement option (For UTS3032T+, UTS3015T+)
	UTS1000-AMA: Analog demodulation measurement option (For UTS3032T+, UTS3015T+)



UTS3000T+ Series

UTS3000B Series

Spectrum/Signal Analyzers



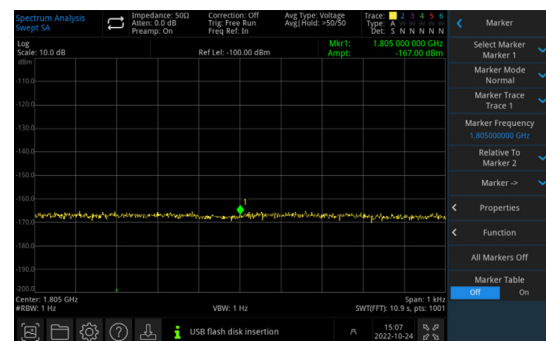
- Frequency measurement range: 9 kHz-2.1 GHz, 9 kHz-3.6 GHz, 9 kHz-8.4 GHz
- Display average noise level can be as low as -161 dBm/Hz (typical value)
- Phase noise <-98 dBc/Hz (Offset 10 kHz, typical value)
- Full amplitude accuracy <0.7 dB
- Up to 40001 scanning points
- Minimum resolution bandwidth (RBW) 1 Hz



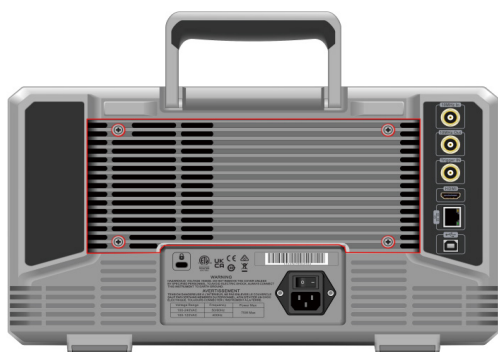
- Multi touch HD screen for quick operation

The UTS3000B series spectrum analyzer can measure frequencies up to 8.4GHz. It is a spectrum analyzer with wide frequency band coverage and superior performance. The series adopts mature all digital IF technology. It provides a variety of analysis functions, and up to 40001 scanning points, providing better help for your frequency domain analysis. This series of spectrum adopts a 10.1 inch large touch screen, which will bring you a better use experience. The UTS3000B series can be applied to functional/terminal/quality inspection tests in the electronics manufacturing industry, as well as wireless communication measurement, RF microwave courses, electromagnetic compatibility pre-scan, semiconductor measurement and many other application scenarios.

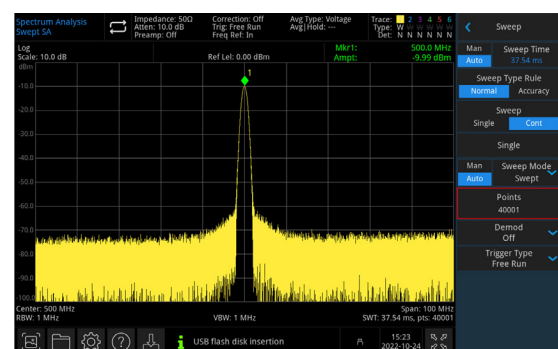
- Advanced function one key measurement (optional)
- EMI Pre-compliance analysis function (optional)
- Support analog demodulation analysis (optional)
- Support digital demodulation analysis (optional)
- Support tracking source output function (optional)
- 10.1 inch 1280 × 800 HD capacitive touch screen
- Provide USB/LAN interface, support SCPI protocol



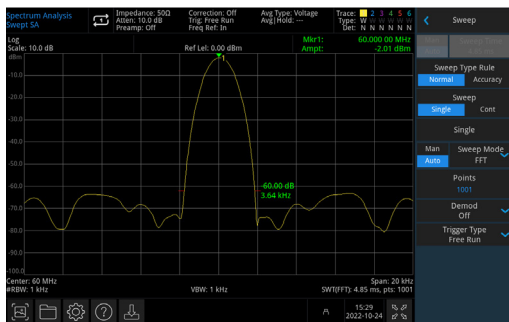
- Excellent sensitivity to test weaker signals



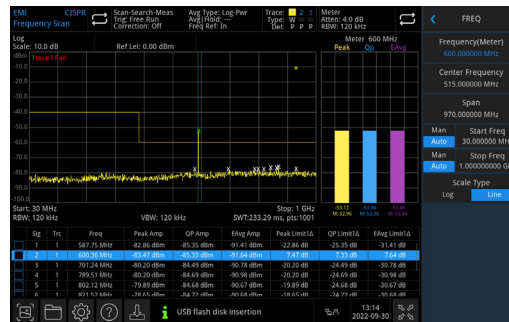
- Removable dust mesh



- 40,001 sweep points, providing higher frequency resolution



● Excellent selectivity



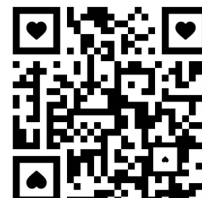
● EMI pre-compliance

Key Specifications		UTS3021B	UTS3036B	UTS3084B	UTS3084T
Frequency range		9 kHz-2.1 GHz	9 kHz-3.6 GHz	9 kHz-8.4 GHz	9 kHz-8.4 GHz
Frequency resolution		1Hz	1Hz	1Hz	1Hz
Sweep width range		0Hz,100Hz-2.1GHz	0Hz,100Hz-3.6GHz	0Hz,100Hz-8.4GHz	0Hz,100Hz-8.4GHz
Sweep accuracy		Swept $\pm[0.25\% \times \text{Span} + \text{Span}/(\text{Points}-1)]$ FFT $\pm[0.10\% \times \text{Span} + \text{Span}/(\text{Points}-1)]$			
Sweep time		1 ms to 4000 s (span= 0) 1 μ s to 4000 s (span= 0)			
Sweep mode		Swept,FFT			
Marker mode		Normal, Delta Δ , Fixed			
Marker function		Marker Noise,Band Power,Band Density,NdB,Counter			
RBW (-3 dB)		1 Hz-3 MHz,1-3-10 steps			
Video bandwidth (VBW)		1 Hz-3 MHz,1-3-10 steps			
Selectivity (-60 dB/-3 dB)		<4.8:1 (nominal)(-60dB:-3dB)			
Bandwidth accuracy (-3dB)		< 5% (nominal)			
Reference level		-100 dBm - +30 dBm, Steps 1 dB	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB
Preamp		20 dB,Nominal,9 kHz to 2.1 GHz(3.6 GHz,8.4 GHz)	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB
Input attenuator range		0-51 dB,1 dB Steps	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB	-100 dBm - +30 dBm, Step 1 dB
Maximum input DC voltage		50 V DC max			
Maximum continuous wave RF power		$\leq +33$ dBm 3 minute,Input attenuation >20 dB			
Display log scale		1 dB to 200 dB			
Display linear scale		0 -Reference level			
Scale units		dBm,dBmV,dBuV,V,W			
Sweep (trace) point range		40001			
Number of traces		6			
Detection mode		Sample,Peak,Negative,Normal,Average			
Trace Type		Clear/Write,Average,Max Hold,Min Hold			
Frequency response	Preamp Off	9 kHz to 3.6 GHz: ± 0.6 dB; ± 0.3 dB,Typical 3.6 GHz to 8.4 GHz: ± 0.8 dB; ± 0.6 dB,Typical			
	Preamp On	100 kHz to 3.6 GHz: ± 1.0 dB ; ± 0.8 dB ,Typical 3.6 GHz to 8.4 GHz: ± 1.2 dB ; ± 1.0 dB ,Typical			
RBW switching uncertainty		Relative to 10 kHz RBW logarithmic resolution ± 0.2 dB, linear resolution ± 0.01 ,Nominal			
Input attenuation switching uncertainty		± 0.5 dB(20 -30° C ,fc=50 MHz, Preamp Off, Relative to 20 dB attenuation, Input attenuation 1-51 dB)			
Absolute amplitude accuracy	Preamplifier off	± 0.4 dB,Input signal level -20dBm (20° C -30° C ,fc=50 MHz,RBW=1 kHz,VBW=1 kHz,peak detector,attenuation input 20 dB)			
	Preamplifier on	± 0.5 dB,Input signal level -40dBm (20° C -30° C ,fc=50 MHz,RBW=1 kHz,VBW=1 kHz,peak detector,attenuation input 20 dB)			
Total absolute amplitude accuracy		$\pm(0.4 \text{ dB} + \text{frequency response})(20^\circ \text{ C} -30^\circ \text{ C} ,F_c > 100 \text{ kHz}, \text{Input signal level } -50 \text{ dBm} -0 \text{ dBm}, \text{RBW}=1 \text{ kHz}, \text{VBW}=1 \text{ kHz}, \text{Peak detection}, \text{Input attenuation } 20 \text{ dB}, \text{Preamplifier off}, 95\% \text{ Confidence})$			
Input voltage standing wave ratio(VSWR)		<1.8 dB,(nominal)			

Key Specifications		UTS3021B	UTS3036B	UTS3084B	UTS3084T
Tracking generator	Frequency range	100 kHz-2.1 GHz(Optional)	100 kHz-3.6 GHz(Optional)	no	100 kHz-6 GHz
	Output level range	-40 dBm-0 dBm			
	Resolution	0.5 dB			
	Flatness output	±3 dB			
Interface		Tracking generator output,10MHz reference input, 10MHz reference output,Ext Trigger,HDMI,USB host, USB device,LAN			

General Characteristics	
Power	100-240V AC, 50Hz/60Hz
Display	10.1 "TFT LCD (1280x800) touch
Product size(W×H×D)	378 mm×218 mm×120 mm
Product net weight	4.55kg
Standard quantity per carton	1pc

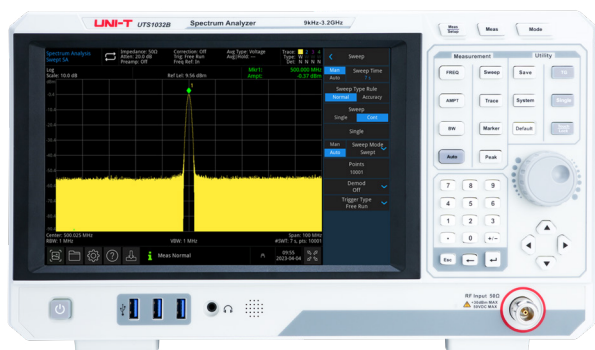
Ordering Information	
UTS3000B Series	UTS3084T: 8.4 GHz, 1Hz-3 MHz, -161 dBm/Hz,with built-in Tracking generator
	UTS3084B: 8.4 GHz, 1Hz-3 MHz, -161 dBm/Hz
	UTS3036B: 3.6 GHz, 1Hz-3 MHz, -161 dBm/Hz
	UTS3021B: 2.1 GHz, 1Hz-3 MHz, -161 dBm/Hz
Standard Accessories	Power cord conforming to the standard of the destination country ×1
	USB cable ×1
Optional Accessories	UT-CK01: accessories kit
	UTS-EMI01: Near-field probes kit
Optional	UTS3000-AMK: Advanced measurement kit
	UTS3000-EMI: EMI measurement option
	UTS3000-AMA: Analog demodulation measurement option
	UTS3000-TG: Tracking generator options



UTS3000B Series

UTS1000B Series

Spectrum/Signal Analyzers



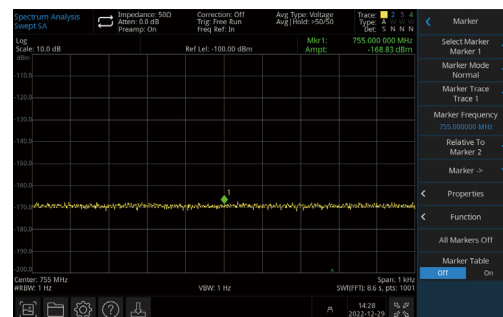
The UTS1000B series spectrum analyzer can measure frequencies up to 3.2GHz. It is a spectrum analyzer with wide frequency band coverage and superior performance. The series adopts mature all digital IF technology. It provides a variety of analysis functions, and up to 10001 scanning points, providing better help for your frequency domain analysis. This series of spectrum adopts a 10.1 inch large touch screen, which will bring you a better use experience. The UTS1000B series is ideal for communication, semiconductor, computer, instrumentation, industrial electronics, consumer electronics, automotive electronics, field maintenance, R & D / education and other fields.

- Frequency range: 9kHz-3.2GHz
- Resolution bandwidth: 1Hz-1MHz
- Tracking source: 100kHz-3.2GHz
- DANL: -161dBm
- Phase noise: <-98dBc/Hz(1GHz, typ.)

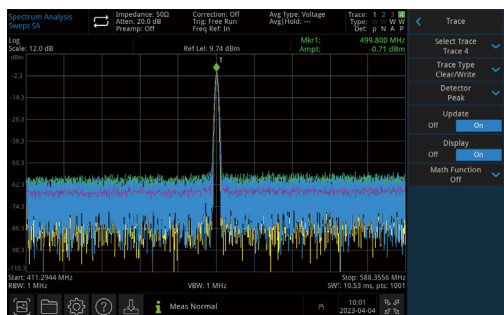
- Number of scanning points displayed: 10001
- Analysis functions: EMI analysis, advanced measurement, analog demodulation analysis, digital demodulation analysis
- Display: 10.1" TFT LCD (1280x800) touch screen
- Interface: HDMI, USB host, USB device, LAN, 3.5mm audio



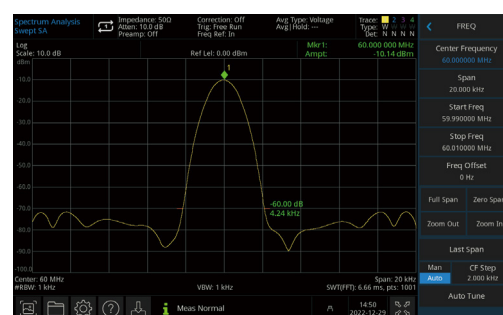
- 4 traces



- DANL <-161dBm



- Rich detector functions



- Excellent selectivity

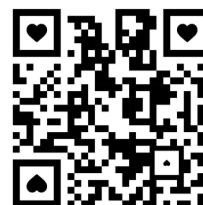
Key Specifications		UTS1015B	UTS1015T	UTS1032B	UTS1032T
Frequency range		9 kHz-1.5 GHz	9 kHz-1.5 GHz	9 kHz-3.2 GHz	9 kHz-3.2 GHz
Frequency resolution		1Hz	1Hz	1Hz	1Hz
Sweep width range		0Hz,100Hz-1.5GHz	0Hz,100Hz-1.5GHz	0 Hz,100 Hz-3.2GHz	0 Hz,100 Hz-3.2GHz
Sweep time		1 ms to 4000 s(span ≠ 0) 1 μs to 4000 s(span= 0)			
Sweep mode		Swept(1 kHz - 1 MHz),FFT(1 Hz - 30 kHz)			
Marker mode		Normal, Delta Δ, Fixed			
Marker function		Marker Noise,Band Power,Band Density,NdB,Counter			
RBW (-3 dB)		1 Hz-1 MHz,1-3-10 steps			
Video bandwidth (VBW)		1 Hz-1 MHz,1-3-10 steps			
Selectivity (-60 dB/-3 dB)		<4.8:1 (nominal)(-60dB:-3dB)			
Bandwidth accuracy (-3dB)		< 5% (nominal)			
Reference level		-100 dBm - +30 dBm,Steps 1 dB			
Preamp		20 dB,nominal value,9 kHz-1.5 GHz(3.2G)			
Input attenuator range		0-51dB,1 dB steps			
Maximum input DC voltage		50 V DC max			
Maximum continuous wave RF power		≤±33 dBm,3 minute,Input attenuation >20 dB			
Display log scale		1 dB-200 dB			
Display linear scale		0 -Reference level			
Scale units		dBm,dBmV,dBμV,V,W			
Sweep (trace) point range		10001			
Number of traces		4			
Detection mode		Sample,Peak,Negative,Normal,Average			
Trace Type		Clear/Write,Average,Max Hold,Min Hold			
Frequency response	Preamplifier off	±0.6 dB; ±0.3 dB,Typical (20°C -30°C,30%-70% relative humidity,Input attenuation 20 dB,be relative to50MHz)			
	Preamplifier on	±1.0 dB; ±0.8 dB,Typical (20°C -30°C,30%-70% relative humidity,Input attenuation 20 dB,be relative to50MHz)			
RBW switching uncertainty		Relative to 10 kHz RBW logarithmic resolution ± 0.2 dB, linear resolution ± 0.01,Nominal			
Input attenuation switching uncertainty		±0.5 dB(20°C -30°C,fc=50 MHz,Preamp Off, Relative to 20 dB attenuation, Input attenuation 1-51 dB)			
Total absolute amplitude accuracy		±(0.4 dB+ Frequency response) (20-30 °C,Fc>100 kHz, Input signal level-50 dBm-0 dBm, RBW=1kHz, VBW=1 kHz, Peak detectors, Input attenuation 20 dB, Preamp Off, 95% confidence)			
Input voltage standing wave ratio(VSWR)		≤1.8,(Nominal)	≤1.8,(Nominal)	≤1.8,(Nominal)	≤1.8,(Nominal)
Tracking generator	Frequency range	/	100 kHz-1.5GHz	/	10MHz-3.2 GHz
	Output level range	/	-40 dBm-0 dBm	/	-40 dBm-0 dBm
	Resolution	/	0.5 dB	/	0.5 dB
	Flatness output	/	±3 dB	/	±3 dB
Interface		Tracking generator output,10MHz reference input, 10MHz reference output,Ext Trigger,HDMI,USB host,USB device,LAN,3.5mm			

General Characteristics

Power	100-240V AC, 50Hz/60Hz
Display	10.1 "TFT LCD (1280x800) touch
Product size(W×H×D)	368 mm×218 mm×120 mm
Product net weight	4.5kg
Standard quantity per carton	1pc

Ordering Information

UTS1000B Series	UTS1032T:3.2GHz,1Hz-1 MHz, -161 dBm, with tracking generator
	UTS1032B:3.2GHz, 1Hz-1 MHz, -161 dBm
	UTS1015T:1.5GHz,1Hz-1 MHz, -161 dBm, with tracking generator
	UTS1015B:1.5GHz, 1Hz-1 MHz, -161 dBm
Standard Accessories	Power cord conforming to the standard of the destination country
	USB cable x1
Optional Accessories	UT-CK01: accessories kit
	UT-W02-6GHz:N-SMA-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-W01-6GHz:N-N-JJ RF cable,DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz
	UT-C02-4GHz:N-BNC-JK adaptor,DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz
	UT-C01-6GHz:N-SMA-JK adaptor,DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz
	UTS-T01:Receiving antenna,working frequency 2400MHz-2500MHz,Gain<2dBi
	UTS-T02:Receiving antenna,working frequency 824MHz-960MHz,Gain<2dBi
	UTS-EMI01: Near-field probes kit
	BAG-B3:Soft carrying bag for UTS1000B and UTS3000B Series Spectrum Analyzers
Software Options	UTS1000-AMK: Advanced measurement kit
	UTS1000-EMI: EMI measurement option
	UTS1000-AMA: Analog demodulation measurement option



UTS1000B Series

Power Supplies and Sources

DC Power Supplies

Selection Guide

Series	Model	Channel	Output Voltage	Output Current	Max Power	Resolution	Name
UDP4000S	UDP4303S	4	0-32V(CH1,CH2), 0-15V(CH3) , 0~6V(CH4)	0~3A(CH1,CH2,CH3) 0~10A(CH4)	297W	1mV1μA	Programmable Linear DC Power Supply
UDP3000S	UDP3305S	4	0~30V(CH1,CH2) 0~6V(CH3)5V(CH4)	0~5A(CH1,CH2) 0~3A(CH3)2A(CH4)	328W	1mV1mA	
	UDP3305S-E					10mV1mA	
UDP3000	UDP3305C	4	0~30V(CH1,CH2) 1.8V/2.5V/3.3V/5V(CH3) 5V(CH4)	0~5A(CH1,CH2) 3A(CH3) 2A(CH4)	325W	10mV1mA	
	UDP3303C				205W		
UDP1000	UDP1306C	2	0~32V(CH1)5V(CH2)	0~6A(CH1)2A(CH2)	202W	10mV1mA	
UDP5000	UDP5250-30	1	0~250V	0~30A	2000W	1mV(<100V)1mA 10mV(≥100V)	Programmable Switching DC Power Supply
	UDP5250-18			0~18A	1200W		
	UDP5250-12			0~12A	800W		
	UDP5250-6			0~6A	400W		
	UDP5160-40		0~160V	0~40A	2000W	1mV1mA(<100A) 10mA(≥100A)	
	UDP5160-24			0~24A	1200W		
	UDP5160-16			0~16A	800W		
	UDP5160-8			0~8A	400W		
	UDP5080-100		0~80V	0~100A	2000W	1mV1mA	
	UDP5080-60			0~60A	1200W		
	UDP5080-40			0~40A	800W		
	UDP5080-20			0~20A	400W		
	UDP5040-200		0~40V	0~200A	2000W	1mV1mA	
	UDP5040-120			0~120A	1200W		
	UDP5040-80			0~80A	800W		
	UDP5040-40			0~40A	400W		
UDP6900	UDP6953B	1	0~150V	0~10A	600W	1mV(<100V) 10mV(≥100V) 0.1mA	
	UDP6952B		0~60V	0~25A		0.1mV(<10V)0.1mA(<10A) 1mV(>10V)1mA(>10A)	
	UDP6942B			0~15A	360W		
	UDP6933B		0~150V	0~5A	200W	1mV(<100V) 10mV(≥100V)0.1mA	
	UDP6932B		0~60V	0~10A			
	UDP6922B			0~5A	100W		
UDP6720	UDP6724G	1	0~600V	0~5A	1500W	100mV/10mA	
	UDP6723G				850W		
	UDP6724B		0~150V	0~20A	1500W	100mV/10mA	
	UDP6723B				850W		
	UDP6724		0~80V	0~40A	1500W	10mV/10mA	
	UDP6723				850W		
	UDP6722				400W		

Series	Model	Channel	Output Voltage	Output Current	Max Power	Resolution	Name
UDP6700	UDP6731	1	0~80V	0~15A	360W	10mV/1mA	Programmable Switching DC Power Supply
	UDP6730		0~40V	0~30A			
	UDP6721		0~60V	0~8A	180W		
	UDP6720			0~5A	100W		
UTP3300TFL-II	UTP3315TFL-II	1	0~30V	0~5A	160W	10mV 1mA	Non-Programmable Linear DC Power Supply
UTP1000	UTP1310	1	0~32V	0~10A	320W	10mV 1mA	Non-Programmable Switching DC Power Supply

Accessories

Model	Picture	Information	Certification	DC Power Supplies Series
UT-L0615-OO		Double O type terminal 60A/1.5m power supply/electronic load test wire,Length: 1.5m, Wire diameter: 6.8mm,Max current: 60A, Terminal: O type-O type,Color: red and black	ROW	UDP4000S; UDP3000S; UDP6900; UDP6720; UDP6700; UDP5000
UT-L0110-BU		Fold insert-U type terminal 10A/1m power supply/electronic load test wire,Length: 1m, Wire diameter: 3.6mm,Max current: 10A, Terminal: Fold insert-U type, Color: red and black		UDP4000S; UDP3000S; UDP6900; UDP6720; UDP6700; UDP5000
UT-L0312-UU		Double U-type terminal 30A/1.2m power supply/electronic load test wire Length: 1.2m,Wire diameter: 5.4mm, Max current: 30A,Terminal: double U-type, Color: red and black		UDP4000S; UDP3000S; UDP6900; UDP6720; UDP6700; UDP5000
UT-L0320-UU		Double U-type terminal 30A/2m power supply/electronic load test wire Length: 2m,Wire diameter: 5.4mm, Max current: 30A,Terminal: double U-type, Color: red and black		UDP4000S; UDP3000S; UDP6900; UDP6720; UDP6700; UDP5000
UT-L0110-BB		Double Fold insert 10A/1m power supply/electronic load test wire, Length: 1m,Wire diameter: 3.6mm, Max current: 10A, Terminal: Fold insert- Fold insert,Color: red and black		UDP4000S; UDP3000S; UDP6900; UDP6720; UDP6700; UDP5000
UTE-L16C		1m/16A alligator clip test wire, Wire diameter: 3.6mm,Length:1m, Rated voltage:220V,Rated current: 16A,Color: red and black		UDP4000S; UDP3000S; UDP6900; UDP6720; UDP6700; UDP5000

UDP4303S Series

Programmable Linear Power Supplies



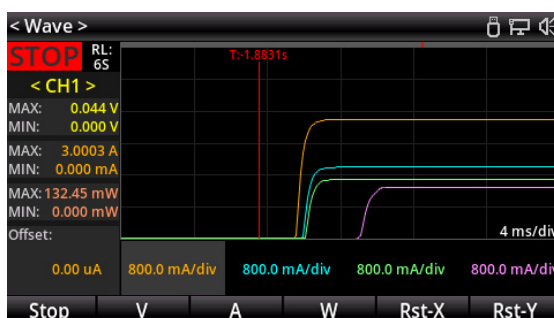
- 4-channel isolation
- 4.3-inch true color LCD
- One-touch series and parallel output
- Waveform measurement and display
- 8 kSa/s high speed sampling
- Fast transient response time: <50 μ s
- 2-wire or 4-wire remote sense

UDP4303S programmable linear DC power supply features two 32V/3A outputs, one 15V/3A output, and one 6V/10A output. It offers extremely low load regulation and low ripple noise output, with each channel isolated from the others. All four channels support remote sensing (4-wire) function. Channels 1 and 2 support internal series and parallel connections, making the device suitable for a wide range of applications.

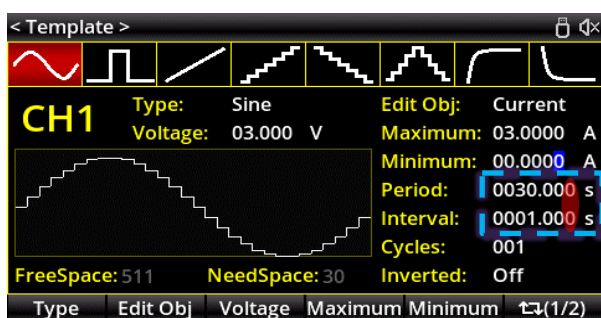
- List and delay support up to 512 outputs with minimum programming time of 1 ms
- Command processing time <10 ms
- Supports auto range test for large and small currents
- Web control and host computer control
- Multi-protection: OVP/OCP/OTP/sense protection, fast over-current
- protection time can be set (0ms-1000ms adjustable).



- Current resolution up to 1 μ A, small current mode supported on all four channels.



- 8 kSa/s current Sample rate.Four-channel current high-speed sampling. Accurately captures and displays transient changes.



- Programming time resolution up to 1ms, more refined output for diverse arbitrary waveforms.100 times the resolution of previous generation power supplies.

< List >				
LIST:CH1	Running	No.	Volt(V)	Curr(A)
0000.319 s		002	3.000	1.8119
		003	3.000	2.1101
		004	3.000	2.3817
		005	3.000	2.6147
		006	3.000	2.7990
		007	3.000	2.9266
		008	3.000	2.9918
Cycles:	Infinite			
End State:	Outp Off			
Groups:	181			
Stop				

- List, Delayer, Monitor, Trigger, Recorder.Help you automate tests, monitor and protect intelligently, and record the data you care about.



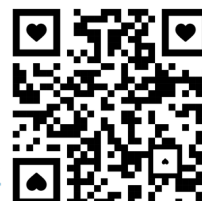
● Independent, series and Parallel operation can be easily realized through the menu. Strong performance even when connected in series and parallel.

● Four-channel full isolation. Isolation without crosstalk, comfort and safety.

Key Specifications		UDP4303S
Output voltage		CH1&CH2:0-32V; CH3:0-15V; CH4:0-6V
Output current		CH1&CH2:0-3A; CH3:0-3A; CH4:0-10A
Output power		297W
Load regulation	CV	$\leq 0.01\% + 2\text{mV}$
	CC	$\leq 0.01\% + 250\mu\text{A}$
Line regulation	CV	$\leq 0.01\% + 2\text{mV}$
	CC	$\leq 0.01\% + 250\mu\text{A}$
Resolution	Voltage	1 mV
	Current	0.1mA (1 μA in small current mode)
Programming accuracy	Voltage	CH1-CH3: $\pm(0.03\% + 8\text{mV})$ /CH4: $\pm(0.04\% + 4\text{mV})$
	Current	CH1-CH3: $\pm(0.15\% + 5\text{mA})$ /CH4: $\pm(0.15\% + 10\text{mA})$
Readback accuracy	Voltage	CH1-CH3: $\pm(0.03\% + 8\text{mV})$ /CH4: $\pm(0.08\% + 3\text{mV})$
	Current	CH1-CH3: $\pm(0.15\% + 5\text{mA})$ /CH4: $\pm(0.15\% + 10\text{mA})$
Ripple and noise	Voltage	$< 350\mu\text{Vrms} / 2\text{mVpp}(20\text{Hz}-20\text{MHz})$
	Current	$\leq 2\text{mArms}$
Programming time resolution		1ms
Current Sample rate		8 kSa/s
Standard interfaces		USB Host, USB Device, LAN, RS232, Digital IO

General Characteristics	
Power	AC 100V/120V/220V/230V 10% 50/60Hz
Display	4.3inch LCD
Product net weight	10.5kg
Product size (W×H×D)	225mm × 159.6mm × 445mm
Standard quantity per carton	1pcs
Standard carton size	590mm×345mm×295mm

Ordering Information	
UDP4000S Series	UDP4303S: Programmable Linear DC Power Supply (4-Channel, 297W)
Standard Accessories	Power cord conforming to the standard of the destination country
	USB interface cable



UDP4303S Series

UDP3000S Series

Programmable Linear Power Supplies



UDP3000S series is a high-performance programmable linear DC power supply. It has a clear LCD user interface, excellent performance indicators, a variety of analysis functions and communication interfaces. It can meet the diversified test needs of users. It aims to provide cost-effective DC programmable power supply equipment for teaching, scientific research, industry and other fields.

- Maximum power up to 328W
- Four channel independent output:
CH1/CH2: 0-30V/5A, CH3: 0-6V/3A, CH4: 5V/2A
- Multiple protection: OCP/OVP/OTP
- Excellent load regulation and line regulation
- Ultra low output ripple and noise
- Support one key serial and parallel output function
- The 4.3-inch TFT display can display three channels and multiple parameters at the same time
- List / delayer function to control voltage and current output as required
- External trigger function to realize industrial automation control

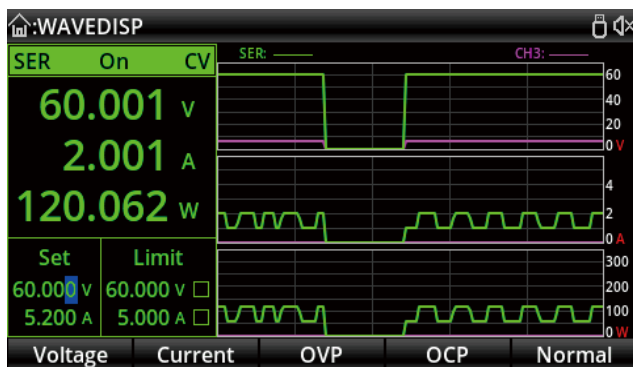
- Provide USB host, USB device, LAN, RS232, Digital IO and other interfaces
- With waveform display function, real-time and dynamic display of output voltage / current / power waveform
- Intelligent speed control of fan can effectively reduce fan noise during operation
- Support 10 groups of file storage and transfer out, and support USB FLASH read and write
- High precision display of five-digit voltage / four-digit current, with resolutions of 10mV / 1mA and 1mV / 1mA
- Keyboard lock function to prevent misoperation
- Support SCPI remote command control



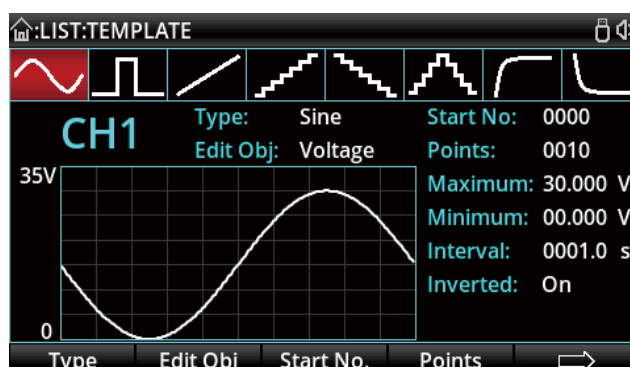
- 4.3 inch TFT LCD provides a human-computer interaction interface with rich functions and simple operation.



- One key series parallel connection provides you with a wider working range of power supply.



- With waveform display function, it can intuitively display the change trend of voltage, current and power.

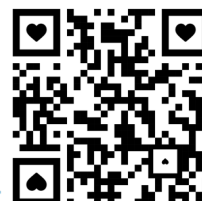


- Unique list and delayer functions provide convenience for automatic test.

Key Specifications		UDP3305S-E	UDP3305S
Output voltage		0-30V(CH1/CH2); 0-6V(CH3); 5V(CH4)	
Output current		0-5A(CH1/CH2); 0-3A(CH3); 2A(CH4)	
Output power		328W	
Load regulation	CV	$\leq 0.01\% + 2\text{mV}$	
	CC	$\leq 0.01\% + 250\mu\text{A}$	
Line regulation	CV	$\leq 0.01\% + 2\text{mV}$	
	CC	$\leq 0.01\% + 250\mu\text{A}$	
Resolution	Voltage	10mV	1mV
	Current	1mA	1mA
Programming accuracy	Voltage	$\pm(0.3\% + 20\text{mV})$	$\pm(0.03\% + 10\text{mV})$
	Current	$\pm(0.2\% + 5\text{mA})$	$\pm(0.2\% + 5\text{mA})$
Readback accuracy	Voltage	$\pm(0.1\% + 20\text{mV})$	$\pm(0.03\% + 10\text{mV})$
	Current	$\pm(0.15\% + 5\text{mA})$	$\pm(0.15\% + 5\text{mA})$
Ripple and noise	Voltage	$< 350\mu\text{Vrms}/2\text{mVpp}(5\text{Hz}-1\text{MHz})$	
	Current	$\leq 2\text{mArms}$	
Temperature coefficient		Voltage: $0.01\% + 5\text{mV}$; Current: $0.01\% + 2\text{mA}$	
Parallel load regulation		$\leq 0.01\% + 2\text{mV}$	$\leq 0.01\% + 2\text{mV}$
Parallel line regulation		$\leq 0.01\% + 2\text{mV}$	$\leq 0.01\% + 2\text{mV}$
Series load regulation			
Series line regulation		$\leq 0.01\% + 3\text{mV}$	
Standard interfaces		USB Host (5V/2A, charging port only), USB Host USB Device, LAN, RS-232, Digital IO	

General Characteristics	
Power	AC 100V/120V/220V/230V $\pm 10\%$, 50Hz/60Hz
Display	4.3inch LCD
Product net weight	10.2kg
Product size (W×H×D)	240mm×168mm×355mm
Standard quantity per carton	1pcs
Standard carton size	455mm x 365mm x 300mm
Standard carton gross weight	10.5kg

Ordering Information	
UDP3000S Series	UDP3305S: Programmable Linear DC Power Supply (4-Channel, 30V, 5A)
	UDP3305S-E: Programmable Linear DC Power Supply (4-Channel, 30V, 5A)
Standard Accessories	Power cord conforming to the standard of the destination country
	USB interface cable (programmable models only)
Optional Accessories	Alligator clip test line: 1 pair



UDP3000S Series

UDP3000 Series

Programmable Linear Power Supplies



The UDP3000 Series Programmable DC power supply is a cost-effective programmable DC power supply with outstanding performance, reliable output and clear interface. The UDP3000 DC power supply has three independent outputs: two of them are adjustable outputs of 30V/5A, the other one is a fixed selectable output of 1.8V/2.5V/3.3V/5V/3A (fine adjustable). With the constant voltage (CV) and constant current (CC) modes, short circuit and overvoltage protection features, the instrument can perfectly meet various test requirements.

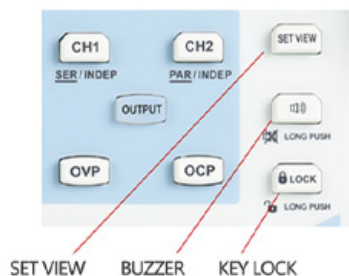
- High precision 4-digit voltage and current display
- Over voltage/current/temperature protection
- One-touch series and parallel output
- USB Device, RS-232 interface
- 8 kSa/s high speed sampling
- 5 sets of setup storage: M1-M5
- Shutdown memory
- Keyboard lock
- Intelligent temperature-controlled fan
- 5V/2A USB charging interface



- 3 CH outputs, High precision Display



- Five sets of settings to save and recall



- Buzzer switch and key lock function, shutdown memory function, SET VIEW function



- Remote control DIGITAL I/O interface

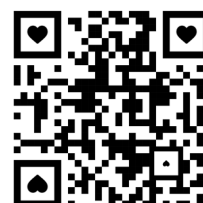
Key Specifications		UDP3303C	UDP3305C
Output voltage		0-30V(CH1/CH2); 1.8V/2.5V/3.3V/5V(CH3); 5V	
Output current		0-3A(CH1/CH2); 3A(CH3); 2A(CH4)	0-5A(CH1/CH2); 3A(CH3); 2A(CH4)
Output power		205W	325W
Load regulation	CV	$\leq 0.01\% + 3\text{mV}(\leq 3\text{A}); \leq 0.02\% + 5\text{mV}(> 3\text{A})$	
	CC	$\leq 0.2\% + 3\text{mA}$	
Line regulation	CV	$\leq 0.01\% + 3\text{mV}$	
	CC	$\leq 0.2\% + 3\text{mA}$	
Resolution	Voltage	10mV	
	Current	1mA	
Programming accuracy	Voltage	$\leq 0.1\% + 30\text{mV}$	$\pm(0.1\% \text{ of reading} + 30\text{mV})$
	Current	$\leq 0.5\% + 2\text{mA}$	$\pm(0.3\% \text{ of reading} + 5\text{mA})$
Readback accuracy	Voltage	$\leq 0.1\% + 30\text{mV}$	
	Current	$\leq 0.5\% + 2\text{mA}$	
Ripple and noise	Voltage	$\leq 1\text{mVrms}$	
	Current	$\leq 3\text{mA rms}$	
Temperature coefficient		$\leq 300\text{ppm}$	
Parallel load regulation		$\leq 0.01\% + 3\text{mV}(\leq 3\text{A}); \leq 0.02\% + 5\text{mV}(> 3\text{A})$	$\leq 0.01\% + 3\text{mV}$
Parallel line regulation		$\leq 0.01\% + 3\text{mV}$	
Series load regulation		$\leq 300\text{mV}$	
Series line regulation		$\leq 0.01\% + 5\text{mV}$	
Standard interfaces		USB Host (5V/2A, charging port only), USB Device, RS-232, Digital I/O	

General Characteristics

Power	UDP3303C: AC110V/120V/220V/230V $\pm 10\%$, 50Hz/60Hz UDP3305C: AC100V/120V/220V/230V $\pm 10\%$, 50Hz/60Hz
Display	EBTN LCD
Product net weight	10kg
Product size (W×H×D)	240mm×168mm×355mm
Standard quantity per carton	1pcs
Standard carton size	455mm x 365mm x 300mm
Standard carton gross weight	11.4kg

Ordering Information

UDP3000 Series	UDP3305C: Programmable Linear DC Power Supply (3-Channel, 30V, 5A)
	UDP3303C: Programmable Linear DC Power Supply (3-Channel, 30V, 3A)
Standard Accessories	Power cord conforming to the standard of the destination country
	USB interface cable (programmable models only)
Optional Accessories	Alligator clip test line: 1pair



UDP3000 Series

UDP1000 Series

Programmable Linear Power Supplies



UDP1306C is a single-channel programmable linear DC power supply, a basic power product designed by users of a smaller size and high reliability power supply. It has low ripple noise, fast transient response, excellent power supply and load regulation and other characteristics. Powerful output function and complete protection function.

- High precision 4-digit display
- Over voltage/current/temperature protection
- Output voltage/current setting viewable
- Shutdown memory/keyboard lock
- Intelligent cooling fan
- USB charging interface
- USB device communication, RS232 program-controlled communication interface
- Remote control (output ON/OFF)
- 5 sets of setup storage: M1-M5



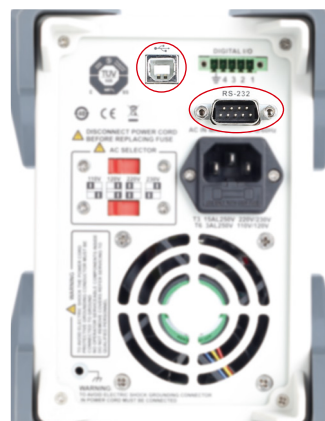
- Single output 32V/6A and USB charging interface 5V/2A



- 5 sets of setup storage: M1-M5



- Over voltage/current/temperature protection

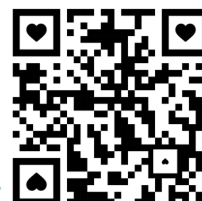


- With RS232 and USB communication interface function

Key Specifications		UDP1306C
Output voltage		CH1:0-32A, CH2:5V
Output current		CH1: 0-6A; CH2: 2A
Output power		202W
Display mode		3-window, 4-digit voltage and current high precision display
Resolution	Voltage	10mV
	Current	1mA
Load regulation	Voltage	<0.01%+5mV
	Current	<0.1%+10mA
Line regulation	Voltage	<0.01%+3mV
	Current	<0.1%+3mA
Program- ming accura- cy(25° C±5° C)	Voltage	<0.5%+20mV
	Current	<0.5%+10mA
Ripple and noise (20Hz-20MHz)	Voltage	≤2mVrms
	Current	≤3mA _{rms}
Temperature coefficient		Current/Voltage: ≤300ppm/° C
Voltage rising/falling time delay		≤100ms (10% rated load)
Standard interfaces		USB (5V/2A), USB Device, RS-232

General Characteristics	
Power	AC 100V/120V/220V/230V±10%, 50Hz/60Hz
Display	EBTN LCD
Product net weight	7.5kg
Product size (W×H×D)	136mm x 194mm x 327mm
Standard quantity per carton	1pcs
Standard carton size	505mm x 270mm x 335mm
Standard carton gross weight	9.6kg

Ordering Information	
UDP1000 Series	UDP1306C:Programmable Linear DC Power Supply (1-Channel, 32V, 6A)
Standard Accessories	International standard power cord
	USB interface cable
	Alligator clip test line
Optional Accessories	RS232 Communication line



UDP1000 Series

UDP5000 Series NEW

Programmable Switching Power Supplies



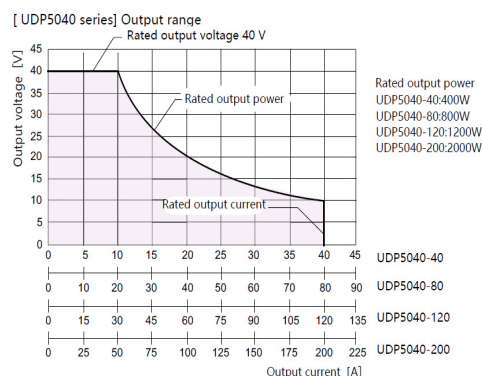
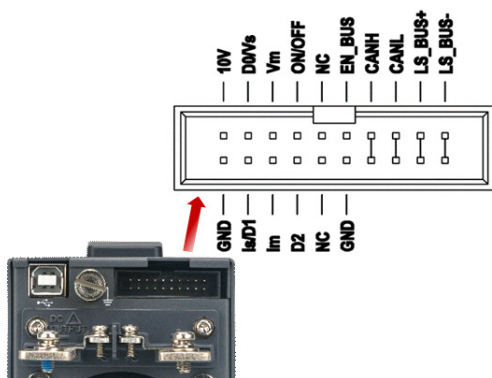
UDP5000 series is a single-output programmable switched DC power supply, available in 16 models, featuring four rated voltage model 40 V, 80 V, 160 V, and 250 V; four power model 400 W, 800 W, 1200 W, and 2000 W.

This series allows flexible voltage and current output combinations under fixed power conditions. A single unit can accommodate both high-voltage, low-current and high-current, low-voltage outputs, optimizing costs and space.

UDP5000 series equipped with USB and LAN interfaces, supports the SCPI protocol, and enables remote control, industrial PLC integration, and intelligent test platform setups. It is widely used in DC-DC power module testing, battery charging, and sensor applications.

- 2.4-inch TFT-LCD Display
- Supports series and parallel connections of the same model
- Enables remote control via Web and VXI bus using a browser
- Global voltage compatibility, supports free voltage switching
- Built-in USB, LAN, and analog control ports for future expansion
- Compatible with the SCPI protocol
- Features high power factor, low THD, low ripple, and low noise, ensuring minimal harmonic interference

- Multiple CC/CV slope modes. Provides enhanced load protection.
- Supports external analog voltage/resistance control
- Enables high-power output from both the front and rear panels
- Remote sense compensation function
- Protection modes: OVP, OCP, OTP, and OPP functions
- Discharge Load Control
- Wide Operating Temperature Range

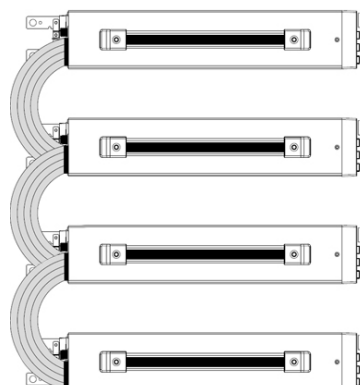


- Supports external analog voltage/resistance control, as well as voltage and current monitoring output.

- A single unit can accommodate both high-voltage, low-current and high-current, low-voltage outputs, optimizing costs and space.

Edit			
Stopped	Current	0	Looped
Start	Groups	128	Cycles
EndStateOFF			
No	Voltage(V)	Current(A)	Time(s)
0	0.100	0.000	0.1
1	0.100	0.000	0.1
2	0.100	0.000	0.1
Start		Manager	

- List and Delayer function for up to 128 groups



- Supports series and parallel connections of the same model, with up to 4 units in parallel and 2 units in series.

Technical Specifications		UDP5040-40	UDP5080-20	UDP5160-8	UDP5250-6	UDP5040-80	UDP5080-40	UDP5160-16	UDP5250-12
Output voltage		40V	80V	160V	250V	40V	80V	160V	250 V
Output current		40A	20A	8A	6A	80A	40A	16A	12A
Output power		400W				800W			
Load regulation	CV	±6mV	±10mV	±12.2mV	±26 mV	±6mV	±10mV	±20mV	±26 mV
	CC	±13mA	±9mA	±7mA	±6 mA	±21mA	±13mA	±10mA	±7 mA
Line regulation	CV	±6mV	±10mV	±12.2mV	±26 mV	±6mV	±10mV	±20mV	±26 mV
	CC	±6mA	±4mA	±3mA	±2.5 mA	±10mA	±6mA	±5mA	±3 mA
Resolution	Voltage	1mV	1mV	1mV(<100V) 10mV(≥100V)	1mV(<100V) 10mV(≥100V)	1mV	1mV	1mV(<100V) 10mV(≥100V)	1mV(<100V) 10mV(≥100V)
	Current	1mA	1mA	1mA	1mA	1mA	1mA	1mA	1mA
Output accuracy	Voltage	±(0.05% of the set value + 0.05% of the rated value)				±(0.05% of the set value + 0.05% of the rated value)			
	Current	±(0.5% of the set value + 0.1% of the rated value)				±(0.5% of the set value + 0.1% of the rated value)			
Ripple and noise	Voltage	≤50mVp-p	≤50mVp-p	≤60mVp-p	≤100mVp-p	≤50mVp-p	≤50mVp-p	≤60mVp-p	≤100mVp-p
	Current	≤80mArms	≤40mArms	≤30mArms	≤12mArms	≤160mArms	≤80mArms	≤40mArms	≤24mArms
Maximum adjustable internal resistance		1.000Ω	4.000Ω	15Ω	31.25Ω	0.500Ω	2.000Ω	7.5Ω	15.625Ω
Maximum Remote Sense Compensation Voltage		1.5V	4V	5V	5 V	1.5V	4V	5V	5 V
Standard interfaces		External analog,LAN,USB Device				External analog,LAN,USB Device			

Technical Specifications		UDP5040-120	UDP5080-60	UDP5160-24	UDP5250-18	UDP5040-200	UDP5080-100	UDP5160-40	UDP5250-30
Output voltage		40V	80V	160V	250 V	40V	80V	160V	250 V
Output current		120A	60A	24A	18 A	200A	100A	40A	30 A
Output power		1200W				2000W			
Load regulation	CV	±6mV	±10mV	±20mV	±26 mV	±6mV	±10mV	±20mV	±26 mV
	CC	±29mA	±17mA	±12mA	±8.0 mA	±45mA	±25mA	±18mA	±10.0mA
Line regulation	CV	±6mV	±10mV	±20mV	±26 mV	±6mV	±10mV	±20mV	±26 mV
	CC	±14mA	±8mA	±6mA	±3.5 mA	±22mA	±12mA	±8mA	±4.5mA
Resolution	Voltage	1mV	1mV	1mV(<100V) 10mV(≥100V)	1mV(<100V) 10mV(≥100V)	1mV	1mV	1mV(<100V) 10mV(≥100V)	1mV(<100V) 10mV(≥100V)
	Current	1mA(<100A) 10mA(≥100A)	1mA	1mA	1mA	1mA(<100A) 10mA(≥100A)	1mA(<100A) 10mA(≥100A)	1mA	1mA
Output accuracy	Voltage	±(0.05% of the set value + 0.05% of the rated value)				±(0.05% of the set value + 0.05% of the rated value)			
	Current	±(0.5% of the set value + 0.1% of the rated value)				±(0.5% of the set value + 0.1% of the rated value)			
Ripple and noise	Voltage	≤50mVp-p	≤50mVp-p	≤60mVp-p	≤100mVp-p	≤50mVp-p	≤50mVp-p	≤60mVp-p	≤100mVp-p
	Current	≤240mArms	≤120mArms	≤60mArms	≤36mArms	≤400mArms	≤200mArms	≤100mArms	≤60mArms
Maximum adjustable internal resistance		0.333Ω	1.333Ω	5.00Ω	10.416Ω	0.200Ω	0.800Ω	3.00Ω	6.250Ω
Maximum Remote Sense Compensation Voltage		1.5V	4V	5V	5 V	1.5V	4V	5V	5 V
Standard interfaces		External analog,LAN,USB Device				External analog,LAN,USB Device			

General Characteristics	UDP5040-40	UDP5080-20	UDP5160-8	UDP5250-6	UDP5040-80	UDP5080-40	UDP5160-16	UDP5250-12
Power	AC 85V-265V, 47Hz-63Hz				AC 85V-265V, 47Hz-63Hz			
Display	2.4-inch TFT LCD				2.4-inch TFT LCD			
Product net weight	3.0kg				5.5kg			
Product size (W×H×D)	71mm×124mm×350mm				142mm×124mm×350mm			
Standard quantity per carton	1pcs				1pcs			

General Characteristics	UDP5040-120	UDP5080-60	UDP5160-24	UDP5250-18	UDP5040-200	UDP5080-100	UDP5160-40	UDP5250-30
Power	AC 85V-265V, 47Hz-63Hz				AC 85V-265V, 47Hz-63Hz			
Display	2.4-inch TFT LCD				2.4-inch TFT LCD			
Product net weight	7.5kg				13kg			
Product size (W×H×D)	213mm×124mm×350mm				427mm×124mm×350mm			
Standard quantity per carton	1pcs				1pcs			

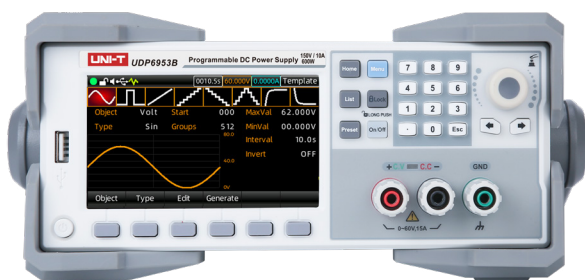
Ordering Information		
UDP5000 Series	UDP5250-30	1CH; 0~250V, 0~30A, 2000W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5160-40	1CH; 0~160V, 0~40A, 2000W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5080-100	1CH; 0~80V, 0~100A, 2000W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5040-200	1CH; 0~40V, 0~200A, 2000W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5250-18	1CH; 0~250V, 0~18A, 1200W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5160-24	1CH; 0~160V, 0~24A, 1200W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5080-60	1CH; 0~80V, 0~60A, 1200W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5040-120	1CH; 0~40V, 0~120A, 1200W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5250-12	1CH; 0~250V, 0~12A, 800W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5160-16	1CH; 0~160V, 0~16A, 800W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5080-40	1CH; 0~80V, 0~40A, 800W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5040-80	1CH; 0~40V, 0~80A, 800W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5250-6	1CH; 0~250V, 0~6A, 400W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5160-8	1CH; 0~160V, 0~8A, 400W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5080-20	1CH; 0~80V, 0~20A, 400W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
	UDP5040-40	1CH; 0~40V, 0~40A, 400W; Resolution, 1mV, 1mA; USB, LAN; AC 85V~265V, 47Hz~63Hz
Standard Accessories	Power cord conforming to the standard of the destination country 1	
	USB data cable 1	



UTP5000 Series

UDP6900 Series

Programmable Switching Power Supplies



The UDP6900 series are single-channel programmable DC power supplies. This series of power supplies can realize combined output of various voltages and currents under fixed power. A single power supply can meet the test of high-voltage low-current and high-current low-voltage two DUTs, which greatly saves your cost and space. UDP6900 series is equipped with standard RS232, LAN, USB and analog interfaces, supports SCPI protocol, and is convenient for remote control, industrial PLC control and building an intelligent test platform. Widely used in DC-DC power modules, battery charging and sensors and other testing fields.

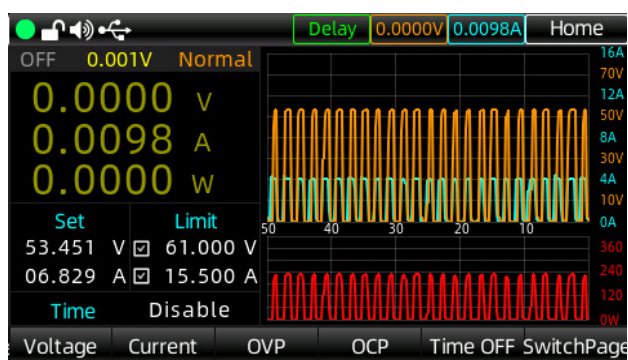
- 4.3 TFT true color LCD
- High accuracy and high resolution
- List and delayer
- Can set timing output, time 0.1-99999.9 s
- Intelligent fan control
- Remote compensation function
- Front and rear panel dual outputs
- RS232, RS485, USB, LAN multiple communication interfaces.
- Support SCPI protocol and Modbus RTU dual protocol
- External Analog Control vs. External Digital Control
- Built-in 4.5-digit digital voltmeter for convenient external measurement
- Multiple protections: over-temperature, over-power protection, over-voltage and
- over-current protection values can be set
- Support 18x8 group preset saving and recall
- High power factor, small harmonic interference to the power grid
- Waveform display output trend
- LAN interface supports web remote control



- 4.3inch TFT LCD display, display more content

No	Voltage	Current	keepT
24	39.999	02.903	0.1
25	40.362	02.929	0.1
26	40.724	02.956	0.1
27	41.084	02.982	0.1
28	41.443	03.008	0.1
29	41.801	03.034	0.1
30	42.156	03.060	0.1
31	42.511	03.085	0.1

- List function provides 512 steps of automated test steps



- Waveform display can visually show the change trend of voltage, current and power

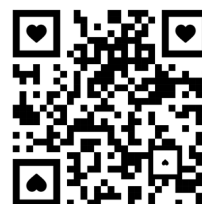
No	Voltage	Current	OVP(V)	OCP(A)	TimeOff(s)
0	12.000	03.000	13.000✓	00.000X	00100.0✓
1	24.000	01.000	00.000X	00.800✓	00000.0X
2	05.000	02.000	05.500✓	02.500✓	00000.0X
3	03.300	02.000	00.000X	00.000X	00010.0✓
4	01.800	00.500	00.000X	00.000X	00000.0X
5	00.900	01.000	00.000X	01.200✓	00000.0X
6	36.000	05.000	00.000X	00.000X	00000.0X
7	48.000	06.000	50.000✓	07.000✓	00200.0✓

- Commonly used settings can use the preset function to improve test efficiency

Key Specifications		UDP6922B	UDP632B	UDP6942B	UDP6933B	UDP6952B	UDP6953B
Output voltage		0-60V	0-60V	0-60V	0-150V	0-60V	0-150V
Output current		0-5A	0-10A	0-15A	0-5A	0-25A	0-10A
Output power		100W	200W	360W	200W	600W	600W
Load regulation	CV	≤0.01%+3mV	≤0.01%+10mV	≤0.01%+30mV	≤0.01%+20mV	≤0.01%+30mV	≤0.01%+25mV
	CC	≤0.05%+2mA	≤0.05%+4mA	≤0.05%+6mA	≤0.01%+6mA	≤0.1%+10mA	≤0.05%+10mA
Line regulation	CV	≤0.01%+3mV	≤0.01%+10mV	≤0.01%+30mV	≤0.01%+20mV	≤0.01%+30mV	≤0.01%+25mV
	CC	≤0.05%+2mA	≤0.05%+4mA	≤0.05%+6mA	≤0.01%+6mA	≤0.1%+10mA	≤0.05%+10mA
Resolution	Voltage	0.1mV(<10V) 1mV(>10V)	0.1mV(<10V) 1mV(>10V)	0.1mV(<10V) 1mV(>10V)	1mV(<100V) 10mV(≥100V)	0.1mV(<10V) 1mV(>10V)	1mV(<100V) 10mV(>100V)
	Current	0.1mA	0.1mA	0.1mA(<10A) 1mA(>10A)	0.1mA	0.1mA(<10A) 1mA(>10A)	0.1mA
Programming accuracy	Voltage	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+5mV	≤0.04%+30mV	≤0.03%+5mV	≤0.03%+20mV
	Current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+15mA	≤0.1%+10mA	≤0.1%+25mA	≤0.1%+25mA
Readback accuracy	Voltage	≤0.03%+5mV	≤0.03%+5mV	≤0.03%+5mV	≤0.04%+30mV	≤0.03%+5mV	≤0.03%+20mV
	Current	≤0.1%+5mA	≤0.1%+10mA	≤0.1%+15mA	≤0.1%+10mA	≤0.1%+25mA	≤0.1%+25mA
Ripple and noise	Voltage	≤5mVp-p	≤8mVp-p	≤15mVp-p	≤30mVp-p	≤20mVp-p	≤50mVp-p
	Current	≤5mA _{rms}	≤6mA _{rms}	≤8mA _{rms}	≤6mA _{rms}	≤15mA _{rms}	≤15mA _{rms}
Standard interfaces		RS232, RS485, Remote compensation, External analog, LAN, USB Device		RS232, RS485, Remote compensation, External analog, LAN, USB Device		RS232, RS485, Remote compensation, External analog, LAN, USB Device	

General Characteristics			
Power	AC 100V-240V, 47Hz-63Hz		AC 100V-240V, 47Hz-63Hz
Display	4.3-inch TFT LCD		4.3-inch TFT LCD
Product net weight	4.0kg		4.5kg
Product size (W×H×D)	215mm×88mm×373.7mm		215mm×88mm×373.7mm
Standard quantity per carton	1pcs		1pcs

Ordering Information	
UDP6900 Series	UDP6922B: Programmable Switching DC Power Supply (1-Channel, 60V, 5A, 100W)
	UDP6932B: Programmable Switching DC Power Supply (1-Channel, 60V, 10A, 200W)
	UDP6942B: Programmable Switching DC Power Supply (1-Channel, 60V, 15A, 360W)
	UDP6933B: Programmable Switching DC Power Supply (1-Channel, 150V, 5A, 200W)
	UDP6952B: Programmable Switching DC Power Supply (1-Channel, 60V, 25A, 600W)
	UDP6953B: Programmable Switching DC Power Supply (1-Channel, 150V, 10A, 600W)
Standard Accessories	Power cord conforming to the standard of the destination country 1
	USB data cable 1



UDP6900 Series

UDP6720 Series **NEW**

Programmable Switching Power Supplies



UDP6720 series are programmable wide range DC switching power supplies. This series of power supply is characterized by wide output range, high precision and powerful function, etc.. The maximum output power can be up to 1500 W. With 4.3-inch LCD display, the parameters are intuitive and the operation is fast. It can be used in automatic test system, product development and debugging, production measurement, laboratory, teaching experiment, phone and household appliance maintenance and other fields.

- Wide range output
- 4.3-inch TFT-LCD display
- High precision and low ripple
- OVP/OCP/OTP
- Remote compensation function
- List, Delayer function, simulate a variety of loading conditions
- Voltage, current and power waveform display

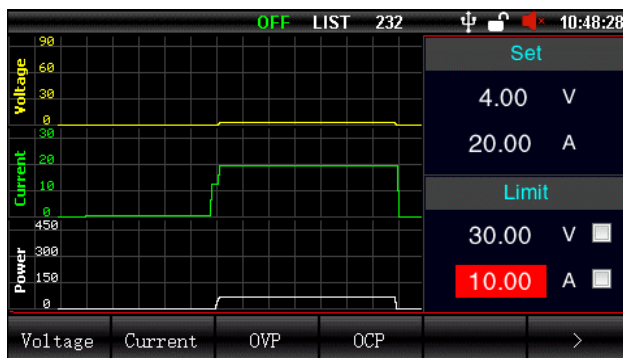
- Fan intelligent adjustment
- Abundant interfaces: RS232, RS485, LAN, USB Host, USB Device
- Supports SCPI/MODBUS Protocol
- Supports host computer software to realize remote operation and monitoring

OFF LIST 232 10:45:31					
SETUP	LIST	DELA	No.	Volt/V	Curr/A
FileNum	File:1		0	6.00	1.00
Start	000		1	4.00	1.00
Group	008		2	6.00	1.00
Repeat	0001		3	10.00	1.00
Finish	Stop		4	3.30	1.00
Enable	On		5	10.00	20.00
			6	6.00	20.00
			7	4.00	20.00
			8	3.30	1.00
			9	1.00	1.00
Basic	Reset	Step	Voltage	Current	Time

- The list mode provides a sequence output of up to 200 steps to suit various output needs.

0.00 V 0.00 A OFF DELA 232 10:56:31					
SETUP	LIST	DELA	No.	On/Off	Time/s
FileNum	File:0		0	On	0.1
Start	000		1	Off	3.0
Group	009		2	On	1.0
Repeat	0001		3	Off	3.0
Finish	Stop		4	On	1.0
Enable	On		5	Off	3.0
			6	On	1.0
			7	Off	3.0
			8	On	1.0
			9	Off	3.0
Basic	Reset	Step	On/Off	Time	

- The delayer mode provides a sequence output of up to 200 steps to realize automatic multiple power-on/off operations.



- Intuitive voltage, current, power waveform display



- 4.3 inch true color LCD display

Key Specifications		UDP6722	UDP6723	UDP6724	UDP6723B	UDP6724B	UDP6723G	UDP6724G
Output voltage		0~80V	0~80V	0~80V	0~150V	0~150V	0~600V	0~600V
Output current		0~20A	0~40A	0~40A	0~20A	0~20A	0~5A	0~5A
Output power		400W	850W	1500W	850W	1500W	850W	1500W
Load regulation	CV	<0.01%+10mV	<0.03%+70mV	<0.03%+70mV	<0.01%+40mV	<0.01%+40mV	<0.01%+100mV	<0.01%+100mV
	CC	<0.1%+5mA	<0.1%+10mA	<0.1%+10mA	<0.1%+10mA	<0.1%+10mA	<0.1%+10mA	<0.1%+10mA
Line regulation	CV	<0.01%+2.5mV	<0.01%+10mV	<0.01%+10mV	<0.01%+30mV	<0.01%+30mV	<0.01%+50mV	<0.01%+50mV
	CC	<0.1%+2.5mA	<0.1%+10mA	<0.1%+10mA	<0.1%+10mA	<0.1%+10mA	<0.1%+10mA	<0.1%+10mA
Resolution	Voltage	10mV	10mV	10mV	100mV	100mV	100mV	100mV
	Current	10mA	10mA	10mA	10mA	10mA	10mA	10mA
Programming accuracy	Voltage	<0.01%+20mV	<0.03%+20mV	<0.03%+20mV	<0.03%+100mV	<0.03%+100mV	<0.03%+200mV	<0.03%+200mV
	Current	<0.1%+10mA	<0.1%+40mA	<0.1%+40mA	<0.1%+20mA	<0.1%+20mA	<0.1%+20mA	<0.1%+20mA
Readback accuracy	Voltage	<0.01%+20mV	<0.03%+20mV	<0.03%+20mV	<0.03%+200mV	<0.03%+200mV	<0.03%+200mV	<0.03%+200mV
	Current	<0.1%+20mA	<0.1%+40mA	<0.1%+40mA	<0.1%+20mA	<0.1%+20mA	<0.1%+20mA	<0.1%+20mA
Ripple and noise	Voltage	<50mVrms	<100mVpp	<100mVpp	<150mVpp	<150mVpp	<300mVpp	<300mVpp
	Current	<15mA _{rms}	<50mA _{rms}	<50mA _{rms}	<30mA _{rms}	<30mA _{rms}	<30mA _{rms}	<30mA _{rms}
Temperature coefficient	Voltage	0.02%/°C+10mV	0.02%/°C+10mV	0.02%/°C+10mV	0.02%/°C+100mV	0.02%/°C+100mV	0.02%/°C+100mV	0.02%/°C+100mV
	Current	0.03%/°C+10mA	0.03%/°C+20mA	0.03%/°C+20mA	0.03%/°C+20mA	0.03%/°C+20mA	0.03%/°C+20mA	0.03%/°C+20mA
Communication Protocol		SCPI, MODBUS	SCPI, MODBUS	SCPI, MODBUS	SCPI, MODBUS	SCPI, MODBUS	SCPI, MODBUS	SCPI, MODBUS
Standard interfaces		RS232, RS485, USB Host, USB Device, LAN						

General Characteristics				
Power	AC 220V±10%, 47~63Hz			
Display	4.3-inch TFT LCD			
Product net weight	4.65kg	5.9kg	6.1kg	7kg
Product size (W×H×D)	214mm×88mm×393mm	215mm×88mm×475mm	215mm×88mm×475mm	215mm×88mm×475mm
Standard quantity per carton	1pcs			

Ordering Information	
UDP6720 Series	UDP6722:Programmable Switching DC Power Supply (1-Channel, 80V,20A,400W)
	UDP6723:Programmable Switching DC Power Supply (1-Channel, 80V,40A,850W)
	UDP6724:Programmable Switching DC Power Supply (1-Channel, 80V,40A,1500W)
	UDP6723B:Programmable Switching DC Power Supply (1-Channel,150V,20A,850W)
	UDP6724B:Programmable Switching DC Power Supply (1-Channel, 150V,20A,1500W)
	UDP6723G:Programmable Switching DC Power Supply (1-Channel, 600V,5A,850W)
	UDP6724G:Programmable Switching DC Power Supply (1-Channel, 600V,5A,1500W)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 communication cable
	USB communication cable



UDP6720 Series

UDP6700 Series

Programmable Switching Power Supplies



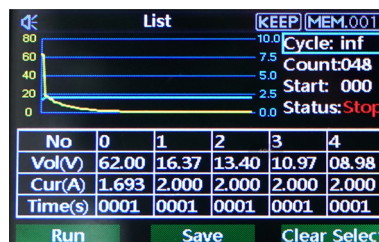
UDP6700 Series switching DC power supply has a wide range of voltage and current utilization, leading the same type of power supply. The power ratio reaches 3.0. One machine can replace multiple small power supplies to reduce your repeated investment. It is equipped with RS232 communication interface as standard and supports SCPI protocol to facilitate remote control. It has the functions of list and delayer. The remote compensation module can avoid the inaccurate test caused by the voltage drop on the load line. LCD display brings better experience to measurement and debugging.

- Fully digital control
- Full scale high resolution: 10 mV/1mA
- Low ripple and noise
- Software correction function
- Minimum overall dimension
- 2.8inch LCD display
- Remote compensation
- Support RS232 communication

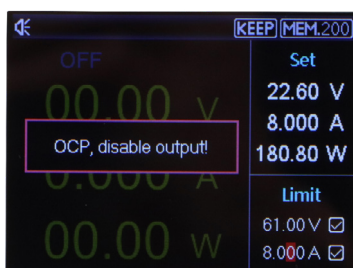
- Fan intelligent regulation
- Constant voltage and constant current output
- High reliability: overvoltage / overcurrent / overtemperature protection function
- List & delayer function
- The output is controlled by a switch
- High quality and high cost performance
- Multiple groups of output voltage / current can be preset: 3 × 200 groups



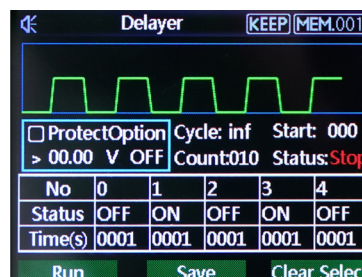
- 2.8inch LCD provides more interactive content and displays more real-time information.



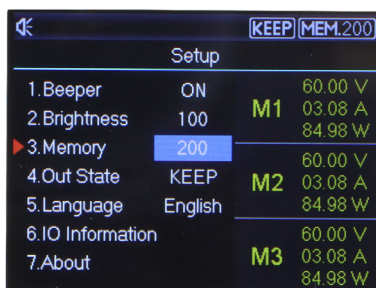
- The list function can preset the power output curve to facilitate the automatic test.



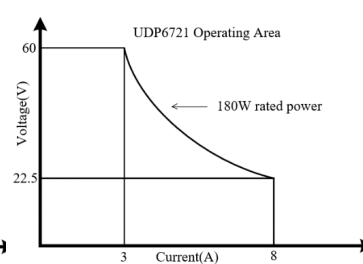
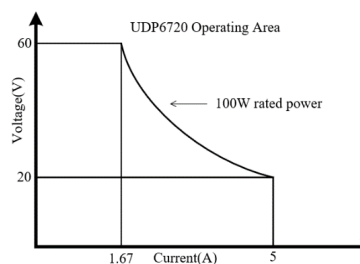
- Provide OVP / OCP / OTP protection function. The protection values of current and voltage can be set.



- Delayer function, set the delay output of the power supply. It can help you with on-off test or related test.



- 3 × 200 sets of setting values can be saved. It can better adapt to diversified and rapid automation applications.



- With high power ratio and wide range output, you can save the purchase of multiple small power supplies.

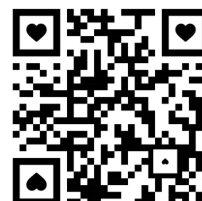
Key Specifications		UDP6720	UDP6721	UDP6730	UDP6731
Output voltage		0-60V	0-60V	0-40V	0-80V
Output current		0-5A	0-8A	0-30A	0-15A
Output power		100W	180W	360W	360W
Load regulation	CV	< 0.01%+3mV	< 0.01%+5mV	<0.03%+30mV	<0.03%+30mV
	CC	< 0.01%+3mA	< 0.01%+5mA	<0.03%+30mA	<0.03%+15mA
Line regulation	CV	< 0.01%+3mV	< 0.01%+5mV	<0.03%+15mV	<0.03%+30mV
	CC	< 0.1%+3mA	< 0.1%+5mA	<0.1%+15mA	<0.1%+10mA
Resolution	Voltage	10mV	10mV	10mV	10mV
	Current	1mA	1mA	1mA	1mA
Programming accuracy	Voltage	< 0.05%+10mV	< 0.05%+10mV	<0.1%+30mV	<0.1%+10mV
	Current	< 0.2%+2mA	< 0.3%+5mA	<0.3%+2mA	<0.3%+10mA
Readback accuracy	Voltage	< 0.05%+10mV	< 0.05%+10mV	<0.1%+10mV	<0.1%+10mV
	Current	< 0.2%+2mA	< 0.3%+5mA	<0.3%+30mA	<0.3%+10mA
Ripple and noise	Voltage	< 2.0mVrms	< 5.0mVrms	<12mVrms	<12mVrms
	Current	< 5.0mA _{rms}	< 8.0mA _{rms}	<72mA _{rms}	<27mA _{rms}
Temperature coefficient	Voltage	≤100ppm/°C	≤100ppm/°C	≤300ppm/°C	≤300ppm/°C
	Current	≤200ppm/°C	≤200ppm/°C	≤300ppm/°C	≤300ppm/°C
Standard interfaces		RS232,Remote compensation	RS232,Remote compensation	RS232,Remote compensation	RS232,Remote compensation

General Characteristics

Power	AC:110(±10%)V/220(±10%)V, 50Hz/60Hz
Display	2.8-inch LCD,4-digit display
Product net weight	2.5kg
Product size (W×H×D)	87mm x 174mm x 255mm
Standard quantity per carton	1pcs

Ordering Information

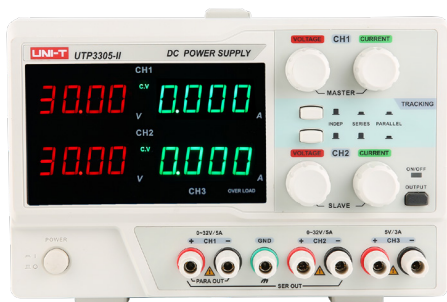
UDP6700 Series	UDP6720:Programmable Switching DC Power Supply (1-Channel, 60V, 5A)
	UDP6721:Programmable Switching DC Power Supply (1-Channel, 60V, 8A)
	UDP6730:Programmable Switching DC Power Supply (1-Channel, 40V,30A)
	UDP6731:Programmable Switching DC Power Supply (1-Channel, 80V, 15A)
Standard Accessories	Power cord conforming to the standard of the destination country
Optional Accessories	Alligator clip test line:1pair



UDP6700 Series

UTP3300-II Series

Non-Programmable Linear Power Supplies



UTP3300 /3300-II Series are three-channel linear DC power supplies of adjustable dual channel and fixed single-channel output, featuring tracking, constant voltage/current, series/parallel output, temperature controlled cooling fan, and over voltage/current protection.

- 3-channel linear DC power supplies feature
- High-precision four-digit voltage and current display, 10mV/1mA(UTP3300-II Series)
- Low ripple/noise
- Constant voltage/current, OVP, OCP, OTP, reverse polarity protection
- Parallel/series output function
- Output on/off control
- Intelligent temperature control fan (only for UTP3300-II Series)



● Parallel mode



● Series mode

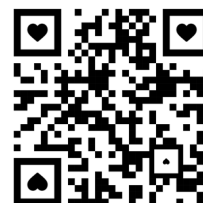
Key Specifications		UTP3305-II
Output voltage		0-32V(CH1, CH2),5V(CH3)
Output current		0-5A(CH1, CH2),3A(CH3)
Output power		335W
Load regulation	CV	<0.01%+3mV
	CC	≤0.2%+3mA
Ripple and noise	CV	≤1mVrms
	CC	≤3mA _{rms}
Output regulate resolution	CV	10mV (typical)
	CC	1mA (typical)
Tracking bias	CV	±(0.1% of reading+30mV)
	CC	±(0.3% of reading+10mA)
Display mode		4-bit voltage and current dual display

General Characteristics

Power	Input voltage: 115V AC/230V AC; Frequency: 47Hz-63Hz
Display	4 windows,LED
Product net weight	10.5kg
Product size (W×H×D)	319mm×146mm×226mm
Standard quantity per carton	1pcs
Standard carton size	465mm×345mm×280mm
Standard carton gross weight	11.1kg

Ordering Information

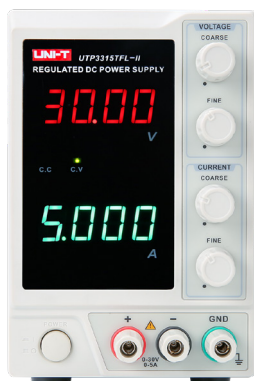
UTP3000 Series	UTP3305-II:Non-Programmable Linear DC Power Supply (3-Channel, 32V, 5A, 10mV, 1mA)
Standard Accessories	Power cord conforming to the standard of the destination country
	Test output line



UTP3300-II Series

UTP3300TFL-II Series

Non-Programmable Linear Power Supplies



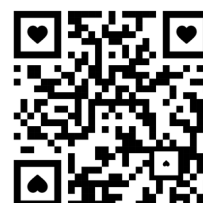
UTP3000TFL-II series single-channel linear DC power supplies are economical benchtop tools for DIY electronics hobbyists, electronics manufacturing and testing, and other applications.

- Light weight and concise interface
- 1-channel linear DC power supplies feature
- High-precision 4-digit voltage and current display, 10mV/1mA
- Low ripple/noise
- Auto conversion of constant voltage and current with current limit protection

Key Specifications		UTP3315TFL-II
Output voltage		0-30V
Output current		0-5A
Output power		150W
Load regulation	CV	$\leq 0.01\% + 5\text{mV}$
	CC	$\leq 0.1\% + 10\text{mA}$
Programming accuracy (25° C $\pm$ 5° C)	Voltage	$< 0.5\% + 20\text{mV}$
	Current	$< 0.5\% + 10\text{mA}$
Ripple and noise		$\leq 2\text{mVrms}$
Output regulate resolution	CV	10mV (typical)
	CC	1mA (typical)
Reliability		MTBF(e): $\geq 2000\text{hrs}$

General Characteristics	
Power	Input voltage: 110V/220V $\pm$ 5% AC, Frequency: 50Hz/60Hz
Display	4 digits LED
Product net weight	4kg
Product size (W×H×D)	105mm x 165mm x 249mm
Standard quantity per carton	4pcs
Standard carton size	330mm x 285mm x 460mm
Standard carton gross weight	17kg

Ordering Information	
UTP3300TFL-II Series	UTP3315TFL-II: Linear DC Power Supply (1-Channel, 30V, 5A, 10mV, 1mA)
Standard Accessories	International standard power cord
	Alligator clip test line



UTP3300TFL-II Series

UTP1000 Series

Programmable Switching Power Supplies



UTP1300 series power supply is an economical switch-type DC regulated power supply with single output. It has a pure output, excellent performance indicators, and can meet diverse testing needs. Used in product debugging and maintenance, quality control and testing, production automation testing, teaching experiments, etc.

- Single output
- Output: 32V, 10A
- Resolution: 10mV/1mA
- Over voltage/current protection
- 3 groups of one-key recall of stored datas
- Over current/voltage protection value settable
- Independent output switch



- Overvoltage and overcurrent protection



- 3 groups of one-key recall of stored values and Key lock

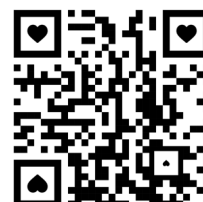
Key Specifications		UTP1310
Output voltage		0-32V
Output current		0-10A
Output power		320W
Load regulation	CV	$\leq 0.1\% + 5\text{mV}$
	CC	$\leq 0.2\% + 3\text{mA}$
Power regulation	CV	$\leq 0.01\% + 5\text{mV}$
	CC	$\leq 0.2\% + 3\text{mA}$
Output regulate resolution	CV	10mV (typical)
	CC	1mA (typical)
MTBF(e):		$\geq 2000\text{hrs}$
Programming accuracy (25° C $\pm$ 5° C)	Voltage	$\leq 0.1\% + 1\text{digit}$
	Current	$\leq 0.2\% + 3\text{mA}$
Ripple and noise (20Hz-20MHz)	Voltage	$\leq 10\text{mVrms}$
	Current	$\leq 5\text{mA rms}$

General Characteristics

Power	Input voltage: 110V AC/220V AC, 50Hz-60Hz
Display	4 digits LED
Product net weight	2.5kg
Product size (W×H×D)	80mm x 150mm x 230mm
Standard quantity per carton	6pcs
Standard carton size	455mm x 295mm x 450mm
Standard carton gross weight	16.2kg

Ordering Information

UTP1000 Series	UTP1310: Switching DC Power Supply (1-Channel, 32V, 10A)
Standard Accessories	International standard power cord
	Alligator clip test line



UTP1000 Series

DC Electronic Loads

Selection Guide

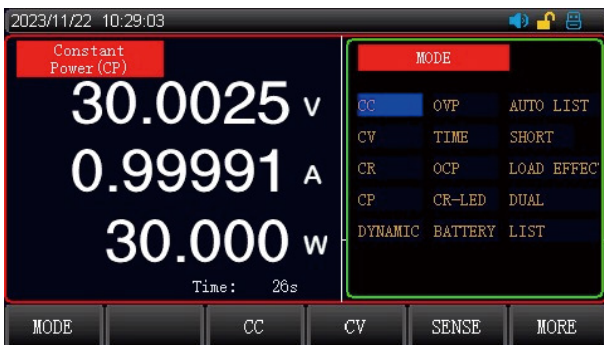
Series	Model	Total Power	Voltage	Current	Max Dynamic Frequency	Current Slew Rate	Resolution
UTL8500X+	UTL8513B+	600W	500V	60A	50kHz	0.0006A/μs~6A/μs	1mV 0.1mA
	UTL8513A+		150V	120A		0.0006A/μs~12A/μs	
	UTL8512B+	400W	500V	30A		0.0006A/μs~3A/μs	0.1mV 0.01mA
	UTL8512A+		150V	30A			
	UTL8511B+	200W	500V	15A			
	UTL8511A+		150V	30A			
UTL8500+	UTL8512+	300W	150V	30A	50kHz	0.0006A/μs~3A/μs	0.1mV 0.01mA
	UTL8511+	150W					
UTL8200+	UTL8212+	200W×2CH	150V	40A	5kHz	0.08A/mS~0.4A/μs	1mV 1mA
	UTL8211+	400W		20A		0.04A/mS~0.2A/μs	

UTL8500X+ Series

Programmable DC Electronic Loads



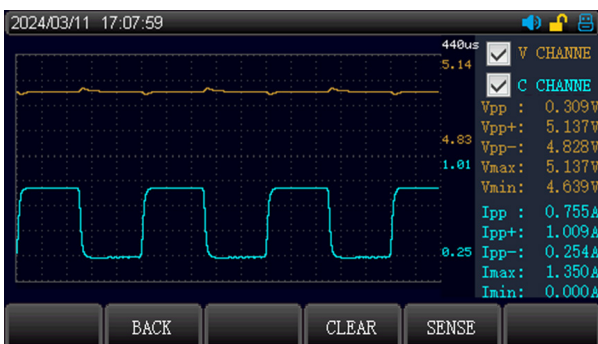
UTL8500X+ series DC electronic load is a new generation of intelligent large-screen and cost-effective electronic load. Up to 500KHz synchronous sampling, high-performance DSP processing. The fast, efficient and intuitive LIST programmable automatic test mode meets most R&D and testing needs.



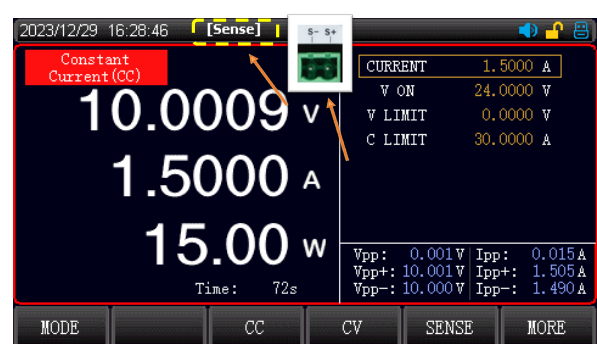
- 15 test modes are available to arrange your tests freely

LIST NAME	No.	MODE	VALUE	TIMING	EXAMI	LOWER LIMIT	UPPER LIMIT
MODE CONTINUOUS	1	CC	0.100	500	Curr	0.095	0.105
	2	CC	0.500	500	Curr	0.495	0.505
	3	CP	60.000	1000	POWER	59.000	60.000
	4	CR	100.000	1000	Curr	0.110	0.130
	5	CC	1.000	1000	Volt	11.000	12.000
	6	SHORT	6.000	1000	Curr	5.900	6.100
	7	OPEN	0.000	500	Volt	11.000	12.000
	8	CV	8.000	500	Volt	7.900	8.100

- Freely edit test items in List mode to help you implement automated measurement



- Ripple measurement & waveform display for better power testing



- Remote compensation solves the problem of inaccurate display in long-distance tests

Key Specifications		UTL8511A+		UTL8511B+		UTL8512A+		UTL8512B+		UTL8513A+		UTL8513B+	
Input ratings 0-40°C	Input voltage	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V
	Input current	0-3A	0-30A	0-1.5A	0-15A	0-3A	0-30A	0-3A	0-30A	0-12A	0-120A	0-6A	0-60A
	Input power	200W		200W		400W		400W		600W		600W	
	Min. operating voltage	1.4±0.1V at 30A		2.8V±0.2V at 15A		1.4±0.1V at 30A		2.8V±0.2V at 30A		1.4V±0.1V at 120A		2.8V±0.2V at 60A	
CV mode	Range	0.1-15V	0.1-150V	0.1-50V	0.1-500V	0.1-15V	0.1-150V	0.1-50V	0.1-500V	0.1-15V	0.1-150V	0.1-50V	0.1-500V
	Resolution	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	0.1mV	1mV	1mV	10mV	1mV	10mV
	Accuracy	±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)	
CC mode	Range	0-3A	0-30A	0-1.5A	0-15A	0-3A	0-30A	0-3A	0-30A	0-12A	0-120A	0-6A	0-60A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)		±(0.03+0.05%FS)	
CR mode	Range	0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ		0.05Ω-10kΩ	
	Resolution	16-bit		16-bit		16-bit		16-bit		16-bit		16-bit	
	Accuracy	(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%		(0.1+0.01R)%	
CP mode	Range	200W		200W		400W		400W		600W		600W	
	Resolution	10mW		10mW		10mW		10mW		10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)	
Dynamic mode (CC mode)	T1&T2	10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS		10μS-50S/Res:1μS	
	Accuracy	1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm		1μS/1mS±100ppm	
	Rise/fall slope	0.0006A/μs-3A/μs		0.0006A/μs-3A/μs		0.0006A/μs-3A/μs		0.0006A/μs-3A/μs		0.0006A/μs-12A/μs		0.0006A/μs-6A/μs	
	Min rise time	10us		10us		10us		10us		10us		10us	
Readback voltage	Range	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V	0-15V	0-150V	0-50V	0-500V
	Resolution	0.01mV	0.1mV	0.01mV	0.1mV	0.01mV	0.1mV	0.01mV	0.1mV	0.1mV	1mV	0.1mV	1mV
	Accuracy	±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)		±(0.02%+0.03%FS)	
Readback current	Range	0-3A	0-30A	0-1.5A	0-15A	0-3A	0-30A	0-3A	0-30A	0-12A	0-120A	0-6A	0-60A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.01mA	0.1mA	0.1mA	1mA	0.1mA	1mA
	Accuracy	±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)		±(0.03%+0.05%FS)	
Readback power	Range	200W		200W		400W		400W		600W		600W	
	Resolution	10mW		10mW		10mW		10mW		10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)		±(0.1%+0.1%FS)	
Over-power protection		≥202W delayed protection, ≥220W immediate protection		≥202W delayed protection, ≥220W immediate protection		≥404W delayed protection, ≥440W immediate protection		≥404W delayed protection, ≥440W immediate protection		≥606W delayed protection, ≥660W immediate protection		≥606W delayed protection, ≥660W immediate protection	
Over-current protection		≥30.3A delay protection, ≥33A immediate protection		≥15.2A delay protection, ≥16.5A immediate protection		≥30.3A delay protection, ≥33A immediate protection		≥30.3A delay protection, ≥33A immediate protection		≥121.2A delay protection, ≥132A immediate protection		≥60.6A delay protection, ≥66A immediate protection	
Over-voltage protection		≥152V delay protection, ≥165V immediate protection		≥505V delay protection, ≥550V immediate protection		≥152V delay protection, ≥165V immediate protection		≥505V delay protection, ≥550V immediate protection		≥152V delay protection, ≥165V immediate protection		≥505V delay protection, ≥550V immediate protection	
Over-temperature protection		≥85°C		≥85°C		≥85°C		≥85°C		≥85°C		≥85°C	
Short circuit	Current (CC)	≤3A	≤30A	≤1.5A	≤15A	≤3A	≤30A	≤3A	≤30A	≤12A	≤120A	≤6A	≤60A
	Voltage (CV)	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V
	Resistance (CR)	60mΩ	60mΩ	200mΩ	200mΩ	50mΩ	50mΩ	120mΩ	120mΩ	35mΩ	35mΩ	105mΩ	105mΩ

Key Specifications	UTL8511A+	UTL8511B+	UTL8512A+	UTL8512B+	UTL8513A+	UTL8513B+
Ripple display	yes	yes	yes	yes	yes	yes
Test mode	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list A total of 14 test modes
Input terminal resistance	300KΩ	1MΩ	300KΩ	1MΩ	300kΩ	1MΩ
Interface&protocol	RS232 interface and SCPI protocol	RS232 interface and SCPI protocol	RS232 interface and SCPI protocol	RS232 interface and SCPI protocol	RS232 interface and SCPI protocol	RS232 interface and SCPI protocol

General Characteristics			
Power	110V/220V, 50/60Hz		110V/220V, 50/60Hz
Display	4.3 inch LCD		4.3 inch LCD
Product size (W×H×D)	215mm x 88mm x 372mm		215mm x 88mm x 475mm
Product net weight	3.73kg	4.49kg	6.72kg
Standard quantity per carton	1pcs		
Standard carton size	515mmX365mmX220mm		650mmX365mmX220mm

Ordering Information	
UTL8500X+ Series	UTL8511A+:Programmable DC Electronic Load (150V, 30A, 200W)
	UTL8511B+:Programmable DC Electronic Load (500V, 15A, 200W)
	UTL8512A+:Programmable DC Electronic Load (150V, 30A, 400W)
	UTL8512B+:Programmable DC Electronic Load (500V, 30A, 400W)
	UTL8513A+:Programmable DC Electronic Load (150V, 120A, 600W)
	UTL8513B+:Programmable DC Electronic Load (500V, 60A, 600W)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 data cable
	2P connecting terminal
	5P connecting terminal
	Fuse



UTL8500X+ Series

UTL8500+ Series

Programmable DC Electronic Loads



UTL8500+ series DC electronic load is a new generation of intelligent large-screen and cost-effective electronic load. Up to 500KHz synchronous sampling, high-performance DSP processing. The fast, efficient and intuitive LIST programmable automatic test mode meets most R&D and testing needs.



- 15 test modes are available to arrange your tests freely

LIST NAME	No.	MODE	VALUE	TIMING	EXAM	LOWER LIMIT	UPPER LIMIT
	1	CC	0.100	500	Curr	0.095	0.105
	2	CC	0.500	500	Curr	0.495	0.505
MODE	3	CP	60.000	1000	POWER	59.000	60.000
CONTINUOUS	4	CR	100.000	1000	Curr	0.110	0.130
STEP	5	CC	1.000	1000	Volt	11.000	12.000
REPEAT	6	SHORT	6.000	1000	Curr	5.900	6.100
1	7	OPEN	0.000	500	Volt	11.000	12.000
V ON	8	CV	8.000	500	Volt	7.900	8.100
0.00V							

- Freely edit test items in List mode to help you implement automated measurement



- Various parameters of the battery mode are adjustable, and the battery discharge curve is provided. Help you complete battery testing excellently

SYSTEM CONFIG	LANGUAGE	MEASURE RATE
	ENGLISH	HIGH
DATE SETTING	2023 / 11 / 22	COM BUS RS232
TIME SETTING	10 : 16 : 09	COM MODE SCPI
KEY BEEP	OFF	BRIGHTNESS 100%
WARNING BEEP	ON	ADDR 1
REAL RECORDING	ON	BPS 9600
KNOB ACTIVE	ON	FACTORY SET RESET

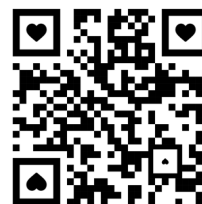
- 4.3inch LCD display, clear parameter and status display

Key Specifications		UTL8511+		UTL8512+	
Input ratings 0-40° C	Input voltage	0-15V	0-150V	0-15V	0-150V
	Input current	0-3A	0-30A	0-3A	0-30A
	Input power	150W		300W	
	Min. operating voltage	1.4V±0.1V at 30V			
CV mode	Range	0.1-15V	0.1-150V	0.1-15V	0.1-150V
	Resolution	0.1mV	1mV	0.1mV	1mV
	Accuracy	±(0.03%+0.05%FS)		±(0.03%+0.05%FS)	
CC mode	Range	0-3A	0-30A	0-3A	0-30A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	±(0.03+0.05%FS)		±(0.03+0.05%FS)	
CR mode	Range	0.05Ω-10kΩ		0.05Ω-10kΩ	
	Resolution	16-bit		16-bit	
	Accuracy	(0.1+0.01R)%		(0.1+0.01R)%	
CP mode	Range	150W		300W	
	Resolution	10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.1%FS)	
Dynamic mode (CC mode)	T1&T2	10μs-50S/Res:1μs		10μs-50S/Res:1μs	
	Accuracy	1μs/1mS±100ppm		1μs/1mS±100ppm	
	Rise/fall slope	0.0006A/μS-3A/μS		0.0006A/μs-3A/μs	
	Min rise time	10μS		10μs	
Readback voltage	Range	0-15V	0-150V	0-15V	0-150V
	Resolution	0.01mV	0.1mV	0.01mV	0.1mV
	Accuracy	±(0.02%+0.03%FS)		±(0.02%+0.03%FS)	
Readback current	Range	0-3A	0-30A	0-3A	0-30A
	Resolution	0.01mA	0.1mA	0.01mA	0.1mA
	Accuracy	±(0.03%+0.05%FS)		±(0.03%+0.05%FS)	
Readback power	Range	150W		300W	
	Resolution	10mW		10mW	
	Accuracy	±(0.1%+0.1%FS)		±(0.1%+0.1%FS)	
Over-power protection		≥152W delayed protection, ≥165W immediate protection		≥303W delayed protection, ≥330W immediate protection	
Over-current protection		≥30.3A delay protection, ≥33A immediate protection		≥30.3A delay protection, ≥33A immediate protection	
Over-voltage protection		≥152V delay protection, ≥165V immediate protection		≥152V delay protection, ≥165V immediate protection	
Over-temperature protection		≥85° C		≥85° C	
Short circuit	Current (CC)	≤3A	≤30A	≤3A	≤30A
	Voltage (CV)	0V	0V	0V	0V
	Resistance (CR)	60mΩ	60mΩ	50mΩ	50mΩ

Key Specifications	UTL8511+	UTL8512+
Ripple display	yes	yes
Waveform record	no	no
Test mode	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list	15 test modes: CC, CV, CR, CP, dynamic, OVP, time, OCP, CR-LED, battery, automatic list, short circuit, load effect, combination, list
Input terminal resistance	300KΩ	300KΩ
Interface&protocol	RS232 interface and SCPI protocol	RS232 interface and SCPI protocol

General Characteristics		
Power	110V/220V, 50/60Hz	
Display	4.3 inch LCD	
Product size (W×H×D)	215mm x 88mm x 372mm	
Product net weight	3.73kg	4.49kg
Standard quantity per carton	1pcs	
Standard carton size	515mmX365mmX220mm	

Ordering Information	
UTL8500+ Series	UTL8511+: Programmable DC Electronic Load (150V, 30A,150W)
	UTL8512+: Programmable DC Electronic Load (150V, 30A,300W)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 data cable
	2P connecting terminal
	5P connecting terminal
	Fuse



UTL8500+ Series

UTL8200+ Series

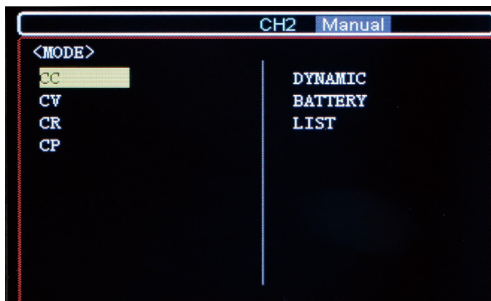
Programmable DC Electronic Loads



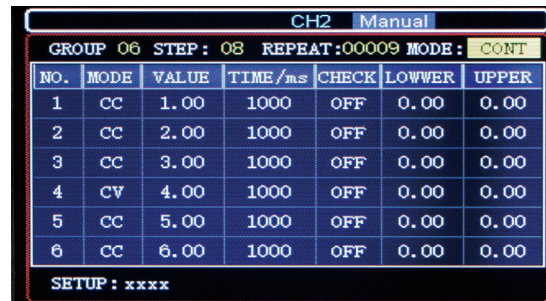
UTL8200+ series electronic load is equipped with a 2.8-inch LCD display, which is easy to operate and stylish in appearance. Its test resolution is up to 1mV/1mA. Equipped with rich test functions and modes for you to choose. The equipment is equipped with RS232 communication module, which can flexibly meet various on-site test conditions, and is convenient for seamless connection with automated production lines and automatic test systems (ATS). The electronic load operates stably and has a wide range of applications, adapting to various testing requirements.

- UTL8211+:150V /40A, 400W
- UTL8212+:150V/2x150V/20A,2x200W
- CC/CV/CR/CP four basic modes
- Up to 1mV/1mA resolution
- Up to 4.8MHz voltage and current Sample rate
- Multi-mode battery discharge test
- List mode, support automatic test
- Independent short circuit test function

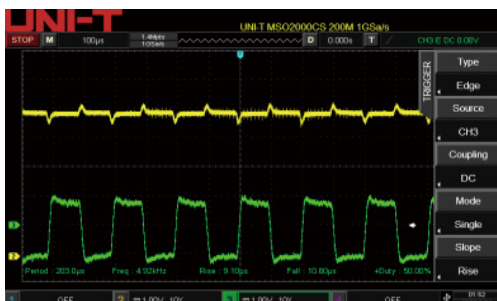
- Various protections such as overvoltage, low voltage, overcurrent, overpower, overheating, and anti-reverse connection
- RS232 communication interface, support SCPI protocol
- Supporting host computer software to realize remote operation and monitoring
- Power off memory function
- Intelligent temperature control fan



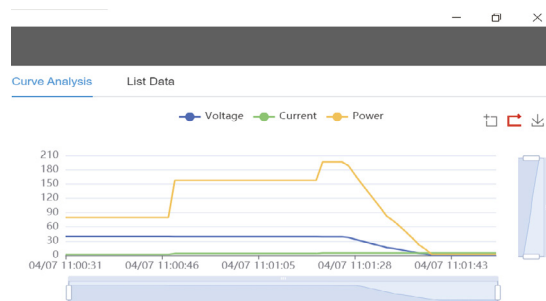
- 7 test modes to help you complete the test work better



- List mode to help you automate



- Dynamic load is up to 5kHz



- The upper computer is equipped as standard to realize remote control and data acquisition.

Key Specifications		UTL8211+	UTL8212+
Number of channel		1	2
Input ratings 0-40° C	Voltage	0-150V	0-150V
	Current	0-4A, 0-40A	0-2A, 0-20A
	Power	400W	2×200W
CV mode	Range	0-150V	
	Accuracy	±(0.05%+0.1% FS)	
CC mode	Range	0-4A, 0-40A	0-2A, 0-20A
	Accuracy	±(0.1% + 0.1%FS)	
CR mode	Range	0.05Ω-7.5KΩ	
	Accuracy	±(0.3%Vin/Rset+0.2%IF.S)	
CP mode	Range	400W	200W
	Accuracy	0.1% + 0.5%FS	
Dynamic mode	T1&T2	100μS-50S/Res:100μS	
	Accuracy	5 μS±100 ppm	
	Slope	0.08A/mS-0.4A/μS	0.04A/mS-0.2A/μS
Readback voltage	Range	0-18V, 0-150V	
	Accuracy	± (0.1% + 0.1%FS)	
Readback current	Range	0-4A, 0-40A	0-2A, 0-20A
	Accuracy	± (0.1% + 0.1%FS)	
Readback power	Range	400W	200W
	Accuracy	± (0.1% + 0.5%FS)	
Over-power protection		Delay protection, immediate protection	
Over-current protection		Delay protection, immediate protection	
Over-voltage protection		Delay protection, immediate protection	
Over-temperature protection		≥85° C	
Resolution		1mV/1mA	
Basic mode		CC/CV/CR/CP	
Test mode		Dynamic mode, list mode, battery test	
Protections		Protections of over-voltage/under-voltage/over-current/over-power/over-temperature/anti-reverse connection	
System setup		Language: Chinese/English, key tone setting	
Interface & protocol		RS232,RS485(optional) and SCPI protocol	
PC software		√	

General Characteristics	
Power	110V±10%/220V±10% Frequency 50/60Hz
Display	2.8 inches LCD
Product net weight	3.42kg
Product size (W×H×D)	88mm x 174.6mm x 230mm
Standard quantity per carton	2pcs
Standard carton size	360mm x 170mm x 280mm 375X350X290
Standard carton gross weight	9kg

Ordering Information	
UTL8200+ Series	UTL8212+:DC electronic load (2-Channel, 20A, 200W)
	UTL8211+:DC electronic load (1-Channel, 40A, 400W)
Standard Accessories	International standard power cord
	RS232C communication line
	Spare fuses



UTL8200+ Series

AC Power Sources

Selection Guide

Series	Model	Capacity	Number of phases	Voltage Range	Frequency Range	Current Range	Resolution
UAP500/1000A	UAP1000A	1000VA	1Φ2W	0-300VAC	45-250Hz	8.4A	0.01V 0.01Hz 0.001A
	UAP500A	500VA				4.2A	

UAP500/1000A Series

Programmable AC Power Source



UAP500 / 1000A series programmable AC variable frequency power supply is equipped with digital display screen, with wide measurement range and resolution of 10mV / 1mA. UAP500 / 1000A series has the characteristics of desk type and system type. It can be combined with other instruments at will and integrated into a test system with special functions to meet the measurement requirements in different occasions. The program can be edited through the panel keyboard, which brings great convenience to users. It is a replacement product of ordinary programmable power supply, with high cost performance advantages.



- Four windows display



- 9 groups of presets



- Remote control

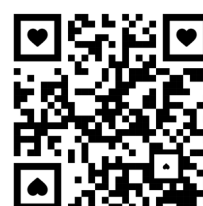


- Numeric keys

Key Specifications		UAP500A	UAP1000A
Capacity		500VA	1KVA
Generation mode		SPWM(Sinusoidal pulse width modulation)	
Input	Phase number	1 ϕ 2W	
	Voltage	220V $\pm$ 10%	
	Frequency	47Hz - 63Hz	
Output	Phase number	1 ϕ 2W	
	Voltage	0-150VAC / 0-300VAC AUTO	
	Frequency	45-250Hz(0.01Step)	
Maximum current	L=120V	4.2A	8.4A
	H=240V	2.1A	4.2A
load Stability		0.1%	
Waveform distortion T.H.D		3% (low grade 120V, high grade 240V, with pure resistive load)	
Frequency stability		0.01%	
Resolution	Voltage	0.01V	
	Frequency	0.01Hz	
	Current	0.001A	
Measurement accuracy	Voltage	$\pm$ 0.5%FS+5dgt	
	Current	$\pm$ 0.5%FS+5dgt	
	Frequency	$\pm$ 0.01%FS+5dgt	
	Power	$\pm$ 0.5%FS+5dgt	
Setting accuracy	Voltage	$\pm$ 1%FS	
	Frequency	$\pm$ 0.1%FS	
Display		Voltage Vrms,Current Arms,Frequency Fre,Power Wattage,Power factor PF	
Storage Memory		M1-M9(V_F_A)	
Current limiting setting		0-Max Current(maximum current: maximum capacity / 240V, i.e. P / 240))	
Output protection		Over Current, Over Temp, Over Load,Short Circuit	
Communication interface		RS232C	

General Characteristics			
Power		AC 220V $\pm$ 10% ,47Hz-63Hz	
Display		VA code breaking screen	
Product net weight		17.5kg	20.7kg
Product size		430mm $\times$ 132mm $\times$ 483mm	
Standard quantity per carton		1pcs	

Ordering Information		
UAP500A/1000A Programmable AC Power	UAP500A:500VA,10mV/1mA,1 ϕ 2W	
	UAP1000A:1000VA,10mV/1mA,1 ϕ 2W	
Standard Accessories	Power cord conforming to the standard of the destination country	
	RS232 interface cable	



UAP500/1000A Series

Bench Meters

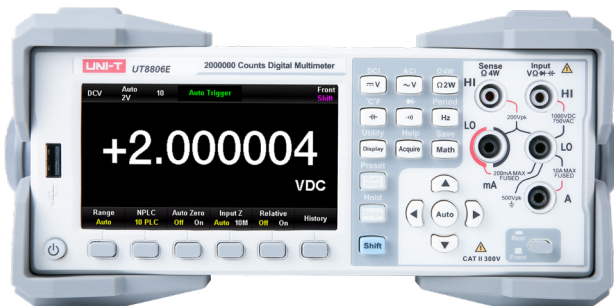
Digital Multimeters

Selection Guide

Series	Model	Display Accuracy	DCV Annual Accuracy	Fastest TestRate
UT8000E	UT8806E	6%	0.0035%	10k rdgs/s
	UT8806EG	6%	0.0035%	10k rdgs/s
	UT8805E	5%	0.01%	5k rdgs/s
	UT8804E	4%	0.025%	3 rdgs/s
	UT8803E	3%	0.3%	3 rdgs/s

UT8806E NEW

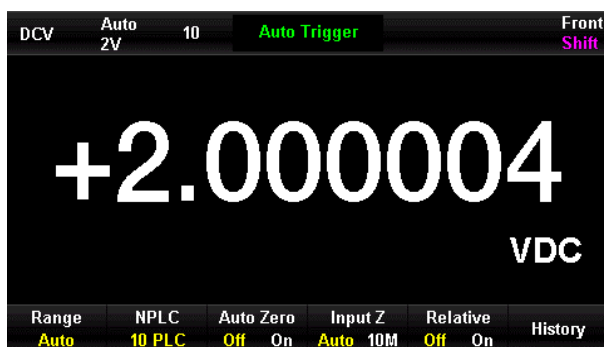
6½ Digital Multimeter



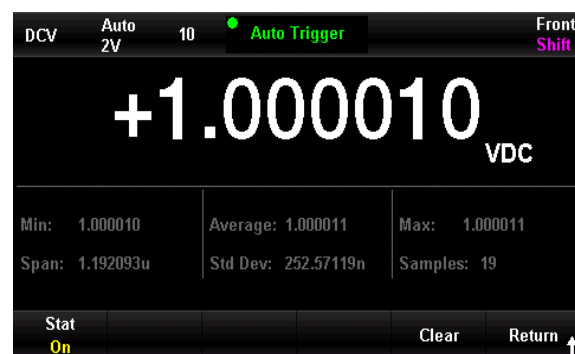
UT8806E is a 6½ digit dual display digital multimeter. It has outstanding read rate and accuracy. It is a product designed to meet customers' multi-functional, high-precision, and automatic measurement requirements.

- 4.3" TFT-LCD, display resolution 480x272
- 6½ digit reading
- Measurement speed up to 10,000 rdgs/s
- True RMS AC voltage and current measurement
- 32Gb Nand Flash, mass storage instrument setting files and data files
- Built-in thermocouple cold junction compensation

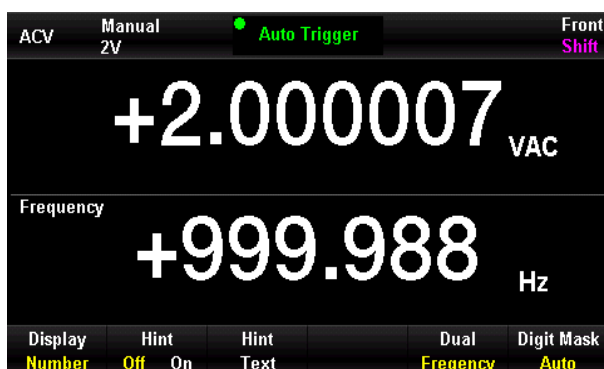
- Support standard SCPI remote control commands, PC software, compatible with the latest mainstream multimeter command set
- Support dual display, built-in help system, easy to obtain information
- Configuration interface: USB Host, USB Device, LAN, RS-232C, GPIB
- Measurement data and settings can be imported or exported through VXI-11, USBTMC, U disk, so that users can modify, view and backup conveniently



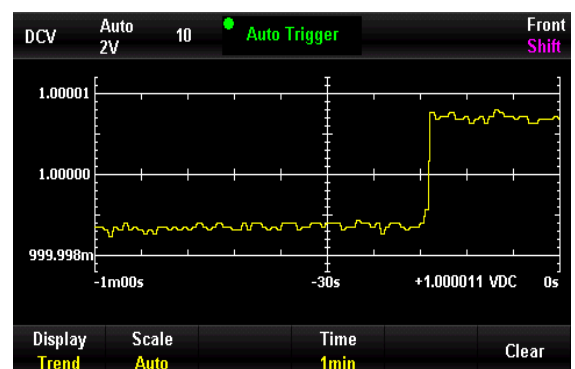
- 1999999 count, 4.3 inch TFT LCD display



- Various mathematic operations



- Support the display of main and auxiliary parameters on the same screen. AC true RMS



- UT8806E supports multiple display modes. Users can observe measurement data through numbers, bar graphs, trend graphs and histograms.

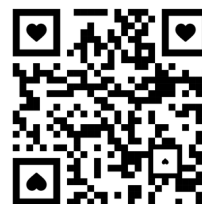
Key Specifications	UT8806E/UT8806EG	
	Range	Accuracy (1 year)
DC voltage (V)	200mV/2V/20V/200V/1000V	±(0.0035%+0.0006%)
AC voltage (V)	200mV/2V/20V/200V/750V	±(0.06%+0.03%)
DC current (A)	2μA/20μA/200μA/2mA/20mA/200mA/2A/10A	±(0.05%+0.002%)
AC current (A)	200μA/2mA/20mA/200mA/2A/10A	±(0.1%+0.04%)
Resistance (Ω)	20Ω/200Ω/2kΩ/20kΩ/200kΩ/2MΩ/10MΩ/100MΩ/1GΩ	±(0.01%+0.001%)
Capacitance (F)	2nF/20nF/200nF/2μF/20μF/200μF/2mF/20mF/100mF	±(1%+0.1%)
Frequency (Hz)	3Hz-1MHz	±0.007%
Temperature (°C)	-270°C-1760°C	Probe accuracy +0.16°C
Display count	1999999	
DCV Accuracy	0.0035%	
Sample rate	10k rdgs/s	
Auto range	√	
True RMS	√	
Data storage	10k data record; 32GB Nand Flash total storage	
Frequency response (Hz)	300kHz	
Diode/triode test	√	
Continuity buzzer	√	
Data hold	√	
Mathematical operations	Pass/Fail, Relative, minimum/maximum/average, standard deviation, dBm, dB, histogram, trend chart and bar chart	
Input resistance	≥10GΩ or 10MΩ	
Standard interface	USB Host, USB Device, LAN, RS-232C, GPIB(only 8806EG)	

General Characteristics

Power	AC 90V-110V,45-440Hz; AC 110V-132V,45-440Hz; AC 200V-240V,45-66Hz; AC 216V-264V,45-66Hz
Display	4.3 inches TFT LCD
Product net weight	4.4kg
Product size (W×H×D)	256mm×113.2mm×378.2mm
Standard quantity per carton	1pcs
Standard carton size	510mm×195mm×340mm
Standard carton gross weight	5.5kg

Ordering Information

UT8000E Series	UT8806E:6½ bit reading resolution,accuracy 0.0035%,10k rdgs/s,Standard (USB , LAN, RS232)
	UT8806EG:6½ bit reading resolution,accuracy 0.0035%,10k rdgs/s,Standard (USB , LAN, RS232,GPIB)
Standard Accessories	International standard power cord
	USB interface cable
	Test leads
	RS-232C interface cable
	Simple test lead with alligator



UT8806E

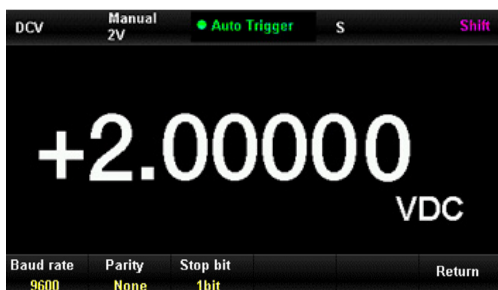
UT8805E

5½ Digital Multimeter

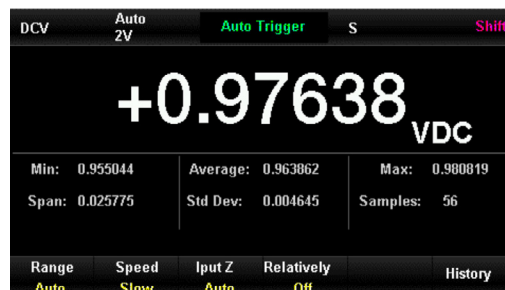


UT8805E is an auto-ranging, true RMS desktop digital multimeter with 199999 counts, up to 5K rdgs/s, 300kHz frequency response, and a 4.3-inch TFT LCD. Pass/Fail, maximum value/minimum value/average value/relative value measurement, etc., 10K reading history data record, 1GB Nand Flash total capacity. It is a superior electrical measuring instrument. It is suitable for measurement in electronics, communications, manufacturing, petroleum, national defense, electric power, chemical and other industries. It is an indispensable experimental tool for various colleges and universities.

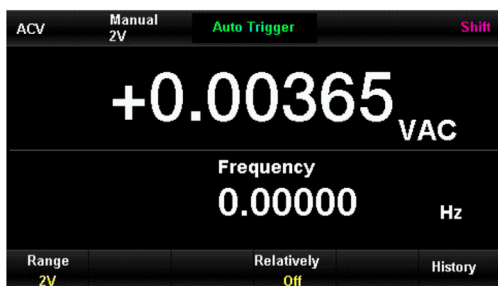
- 200000 count resolution
- Measuring speed: 2.5/10/5k reading per second
- AC true RMS measurement.
- 2-line and 4-line resistance measurement
- Continuity and diode test
- Temperature measurement with built-in thermocouple cold junction compensation
- Various mathematic operations: maximum, minimum, average value, standard deviation, pass/fail, dBm, dB, relative measurement, histogram, trend chart, bar chart
- USB drive store data and configuration
- Supports interface of USB, RS-232C and LAN, USB-TMC, IEEE 488.2 standard, VXI11 and SCPI language
- History data record and storage
- 1GB NAND FLASH storage, mass storage system and test data
- PC control software of upper computer



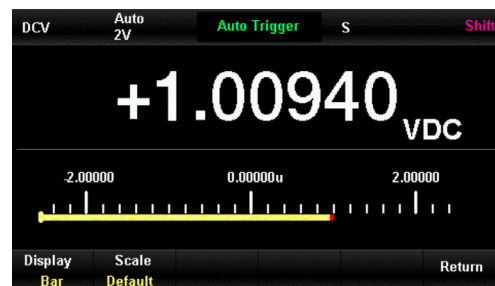
- 199999 count, 4.3 inch TFT LCD display



- Various mathematic operations: maximum, minimum, average value, standard deviation, pass/fail, dBm, dB, relative measurement, histogram, trend chart, bar chart



- Support the display of main and auxiliary parameters on the same screen. AC true RMS



- 3 kinds of display formats are supported by UT8805E. User can check the measured data by number, bar chart, trend chart, and histogram.

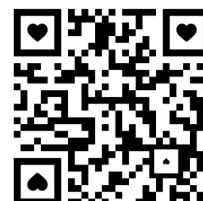
Key Specifications	UT8805E	
	Range	Accuracy (1 year)
DC voltage (V)	200mV/2V/20V/200V/1000V	±(0.01%+0.003%)
AC voltage (V)	200mV/2V/20V/200V/750V	±(0.2%+0.05%)
DC current (A)	200μA/2mA/20mA/200mA/2A/10A	±(0.055%+0.005%)
AC current (A)	2mA/20mA/200mA/2A/10A	±(0.5%+0.1%)
Resistance (Ω)	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/10MΩ/100MΩ	±(0.02%+0.003%)
Capacitance (F)	2nF/20nF/200nF/2μF/20μF/200μF/2mF	±(1%+0.5%)
Frequency (Hz)	20Hz-1MHz	±(0.01%+0.003%)
Temperature (°C)	-270°C-1760°C (thermocouple and thermal resistance sensor supported)	±0.5°C
Display count	199999	
DCV Accuracy	0.010%	
Sample rate	5k rdgs/s	
Auto range	√	
True RMS	√	
Data storage	10k data record; 1GB Nand Flash total storage	
Frequency response (Hz)	100kHz	
Diode/triode test	√	
Continuity buzzer	√	
Data hold	√	
Mathematical operations	Pass/Fail, relative value, minimum/maximum/average, standard deviation, dBm, dB, Hold, histogram, trend chart and bar chart	
Input resistance	≥10GB or 10MΩ	
Standard interface	USB Host, USB Device, LAN, RS-232	

General Characteristics

Power	AC 100V-120V, 45Hz-440Hz; AC 200V-240V, 45Hz-66Hz
Display	4.3 inches TFT LCD
Product net weight	4.4kg
Product size (W×H×D)	239mm×100mm×344mm
Standard quantity per carton	2pcs
Standard carton size	380mm x 330mm x 320mm
Standard carton gross weight	10.5kg

Ordering Information

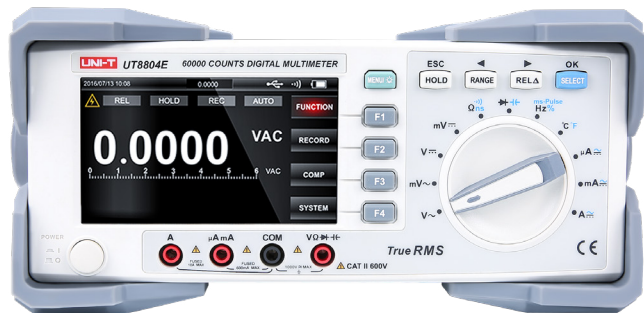
UT8000E Series	UT8805E:Benchtop Digital Multimeter (199999, Auto)
Standard Accessories	International standard power cord
	USB interface cable
	Test leads
	RS-232C interface cable
	Simple test lead with alligator



UT8805E

UT8804E

4½ Digital Multimeter



- Reading resolution: 4½, maximum reading 59999
- Measuring rate: 2 reading/s
- DC voltage range: 60mV-1000V
- DC current range: 600μA-10A
- AC voltage range: 60mV-1000V (True-RMS)
- AC current range: 600μA-10A (True-RMS)
- Resistance range: 600Ω-60MΩ
- Capacitance range: 6nF-60mF
- Conductivity range: 60ns

UT8804E is an automatic range of 59999 counts, a true RMS desktop digital multimeter, 100kHz frequency response, and a 4.3-inch TFT LCD. VFC low-pass filtering function, reduce the interference of high-frequency signals on the measurement results, NCV non-contact voltage sensing, maximum/minimum/average/relative value measurement, 20000 sets of output storage, making it a more superior electrician gauge

- Frequency measurement range: 60Hz-60MHz
- Duty cycle measurement range: 10%-90%
- Mathematical operation: maximum, minimum, average, peak, comparative measurement, trend chart
- Interface: USB device, it can be connected to the upper computer control software
- Frequency response: 100KHz
- Data record: 20000 groups
- LPF low pass filter function



- UT8804E digital multimeter can display 4½ digits (59999), it can provide you high-precision and accurate result display. Its simulation bar makes the display of measurement results more intuitive. 4.3 inch full-color display, giving you a better visual experience.



- function. For the index range required by batch device test, UT8804E will help you automatically identify unqualified devices and give an alarm.



- The UT8804E digital multimeter has the function of maximum and minimum value statistics. At the same time, it has the function of reference value, and the calculation results relative to the reference value can be obtained.



- UT8804E digital multimeter has recording function. Historical data records can be presented in statistics and trend charts.



- Additional secondary parameters can be added to make the measurement more specific, while displaying the main parameters.

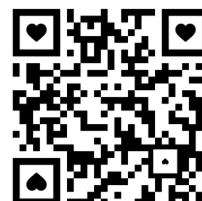
Key Specifications	UT8804E	
	Range	Accuracy (90 days)
DC voltage (V)	1000V	±(0.025%+5)
AC voltage (V)	1000V (45Hz-100kHz)	±(0.3%+30)
DC current (A)	10A	±(0.08%+10)
AC current (A)	10A (45Hz-10kHz)	±(0.6%+20)
Resistance (Ω)	60MΩ	±(0.05%+2)
Capacitance (F)	60mF	±(2%+5)
Conductance (nS)	60nS	±(2%+10)
Frequency (Hz)	60MHz	±(0.01%+5)
Duty cycle (%)	10%-90% (10Hz-2kHz)	±(1.2%+30)
Temperature (°C/°F)	-40° C-1000° C	±(1%+30)
	-40 °F -1832 °F	±(1.5%+50)
Display count	59999	
DCV Accuracy	0.30%	
Sampling speed	2-3rdgs/s	
Range	Auto, manual	
True RMS	√	
Date display	√	
Frequency response (Hz)	100kHz	
Diode/transistor test	√	
Data storage	20000	
On-off beep	√	
Data hold	√	
Standard interface	USB Device	

General Characteristics

Power	100V/120V/220V/240V ±10%, 47Hz-63Hz
Display	4.3 inches TFT LCD
Product net weight	3.7kg
Product size (W×H×D)	239mm x 109m x 344m
Standard quantity per carton	2pcs
Standard carton size	380mm x 330mm x 320mm
Standard carton gross weight	9.5kg

Ordering Information

UT8000E Series	UT8804E:Benchtop Digital Multimeter (59999, Auto)
Standard Accessories	International standard power cord
	USB interface cable
	Test leads
	Simple test lead with alligator
	K-type temperature probe



UT8804E

UT8803E

3% Digital Multimeter



UT8803E is a 6000 count 3% digital, automatic range, portable desktop, AC powered digital multimeter. Large screen large character display with backlight, more clear and easy to read. With full function test, full range overload protection and unique appearance design, it has become an electrical test instrument with better performance. This instrument can be used to measure : AC / DC voltage, AC / DC current, resistance, frequency, capacitance, inductance, triode HFE, diode (LED), thyristor (SCR) and circuit on-off. Meet the measurement needs of users with multi-function, high precision and automation.

- Reading resolution:3%,maximum reading 5999
- Measuring rate:2-3 reading/s
- DC voltage range:600mV-1000V
- DC current range:600μA-10A
- AC voltage range:600mV-750V(True-RMS)
- AC current range:600μA-10A (True-RMS)
- Resistance range:600Ω-60MΩ
- Capacitance range:6nF-6mF
- Inductance range:600μH-100H
- Frequency measurement range:600Hz-20MHz
- Duty cycle measurement range:5%-95%
- Mathematical operation:maximum, minimum, relative value, analog bar
- Interface:USB device,It can be connected to the upper computer control software
- Frequency response:100KHz
- It can measure triode and thyristor



- Reading resolution 3%,maximum reading 5999



- D / Q parameters of capacitance and inductance can be measured



- Multiple measurement items optional



- Extreme value operation and reference value operation function, with analog bar

Key Specifications	UT8803E	
	Range	Accuracy (90 days)
DC voltage (V)	1000V	±(0.3% +2)
AC voltage (V)	750V	±(0.6% +5)
DC current (A)	10A	±(0.8% +3)
AC current (A)	10A	±(1% +5)
Capacitance (F)	6mF	±(1.5% +5)
Resistance (Ω)	60MΩ	±(0.8%+5)
Inductance (H)	100H	±(2% +5)
Temperature (°C/°F)	-40° C-1000° C	±(1% +5)
Frequency (Hz)	600Hz-20MHz	±(0.1% +10)
Duty cycle (%)	5%-95%	Only for reference
Display count	5999	
DCV Accuracy	0.30%	
Sampling speed	2-3 rdgs/s	
Frequency response (Hz)	100kHz	
Range	Manual,Auto	
Input impedance for DCV	10MΩ	
True RMS	√	
Diode/triode	√	
SCR test	√	
Continuity buzzer/data hold	√	
LCD backlight	√	
Interface	USB Device	

General Characteristics	
Power	100V/120V/220V/240V ±10%, 47Hz-63Hz
Display	EBTN LCD
Product net weight	3.09kg
Product size	265mm x 110mm x 320mm
Standard quantity per carton	2pcs
Standard carton measurement	380mm x 330mm x 320mm
Standard carton gross weight	9kg

Ordering Information	
UT8000E Series	UT8803E:Benchtop Digital Multimeter(Display:5999,0.3%,Range:Manual)
Standard Accessories	International standard power cord
	USB interface cable
	Test leads
	simple test lead with alligator
	temperature probe



UT8803E

LCR Meters

Selection Guide

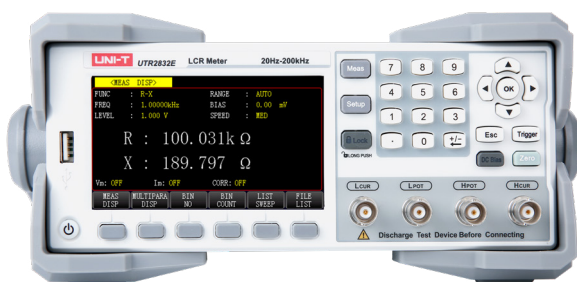
Series	Model	Highest Frequency	Basic Accuracy	Display Count	Measurement Rate	DCR	Display
UTR2830	UTR2833E	300kHz	0.05%	999999	80 /s	yes	4.3" TFT LCD
	UTR2832E	200kHz					
	UTR2830E	100kHz					
UTR2810+	UTR2810E+	10kHz	0.10%	999999	23 /s	no	2.8" TFT LCD
	UTR2811E+						
UT622	UT622E	100kHz	0.10%	99999	20 /s	yes	2.8" TFT LCD
	UT622C					no	
	UT622A	10kHz					

Accessories

Model	Picture	Information	Certification	Series
UTR-L100k-H		Four-terminal Kelvin test line, frequency:100KHz	ROW	UT622
UTR-L100kS-H		SMD Kelvin Test Pliers, frequency:100KHz		UT622
UTR-L10KE		UTR-L10KE:Kelvin test cable with crocodile clip		UTR2810+
UTR-L1ME		Kelvin test cable with crocodile clip		UTR2830; UTR2810+
UTR-S100KE		4-wire test box for UTR2810+ Series, UTR2830E Series		UTR2830; UTR2810+
UTR-L1MSE		DC-15 MHz,0.8m,4-wire SMD component test fixture		UTR2830
UTR-S120MS		DC-120MHz,SMD test box fixture		UTR2830

UTR2830 Series

Benchtop LCR Meters



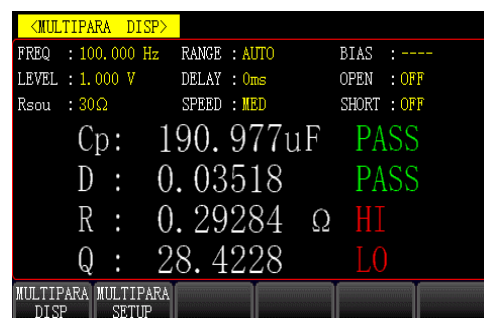
UTR2830 series is a new generation of low-cost, high-performance compact LCR digital bridge. Concentrate the essence of large LCR tester, compact and small. 0.05% basic accuracy and good test stability. Equipped with a 4.3-inch LCD display and a newly upgraded interface system. Beautiful and generous, easy to operate. The instrument provides rich interfaces. Various test systems can be easily formed to meet the various needs of inspection, production and scientific research.

- 4.3-inch TFT-LCD display and simple panel operation
- Test frequency 20Hz-300kHz
- Basic accuracy 0.05%
- Test speed 12.5ms/time

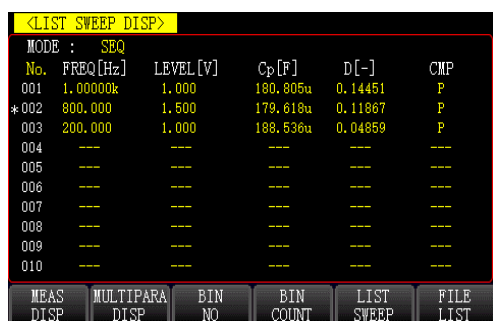
- Internal resistance 30Ω, 50Ω, 100Ω optional
- 10-level sorting, counting, PASS/FAIL display
- Soft power switch
- Rich interfaces, supporting SCPI protocol



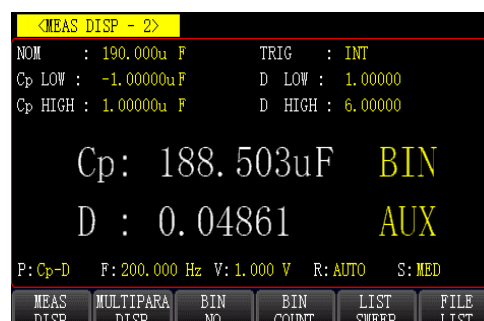
- 4.3-inch full-color LCD display, clear measurement parameters and data



- Multi-parameter display, multiple parameter measurement results can be seen at the same time



- List scan for automatic measurement at multiple frequencies and voltages



- 10-level comparator can group the tested products into batches

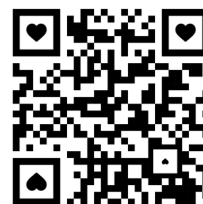
Key Specifications		UTR2830E	UTR2832E	UTR2833E
Test frequency	Frequency range	20Hz-100kHz	20Hz-200kHz	20Hz-300kHz
	Minimum resolution	100mHz		
	Accuracy	±0.02%		
AC level	Voltage range	10mVrms-2Vrms		
	Accuracy	±10%×Set value+2mV		
Internal resistance of AC source	ISO ON	100Ω		
	ISO OFF	30Ω / 50Ω / 100Ω Optional		
Measurement parameters		L,C,R, Z ,D,Q, Y ,G,X,θd,θr,RDC,Vm,Im, Δ %		
Display range		R, X, Z :0.00001Ω - 99.9999MΩ; G, B, Y :0.00001μS - 99.9999S; L:0.00001uH - 99.9999kH; C:0.00001pF - 9.99999F; D:0.00001 - 9.99999; Q:0.00001 - 99999.9; θd:-179.999° - 179.999°; θr:-3.14159 - 3.14159; DCR:0.00001Ω - 999.999MΩ; Δ%:-999.999% - 999.999%		
Test speed (mS / time)		Fast: 12.5ms; Medium speed: 83 ms; Slow speed: 167 ms		
Test side configuration		5		
Clearing mode		Open circuit, short circuit, load		
List Scan		201 points, scanning parameters: test frequency, AC voltage, AC current, DC BIAS voltage, DC BIAS current		
Equivalent mode		Series, parallel		
Range mode		Auto, hold		
Trigger mode		Internal, manual, external, bus		
Average times		1-255 times		
Math operation		Direct reading, Δ ABS, Δ %		
Delayed		Trigger delay, step delay: 0 - 60.000s, 1ms step		
Comparator		10 bins sorting, BIN1-BIN9, NG, AUX, bin counting function, PASS, FALL front panel LED display		
Storage		Internal: 100 sets of instrument built-in test setting files, 201 test results,USB memory: configuration files, GIF images, CSV data files		
Interface		RS232,HANDLER,USB HOST,USB DEVICE,LAN		

General Characteristics

Power	AC 110V/220V 43-63Hz
Display	4.3" TFT LCD 480×272
Product size (W×H×D)	215mm×88mm×350mm
Product net weight	4.65kg
Standard quantity per carton	1pcs

Ordering Information

UTR2830 Series LCR Meters	UTR2830E:Benchtop LCR Meters (100kHz, 0.05%)
	UTR2832E:Benchtop LCR Meters (200kHz, 0.05%)
	UTR2833E:Benchtop LCR Meters (300kHz, 0.05%)
Standard Accessories	Power cable
	Four-wire test clamp
	Four-terminal Kelvin test line
	Short circuit board
	USB data cable
	RS232 data cable



UT2830 Series

UTR2810+ Series

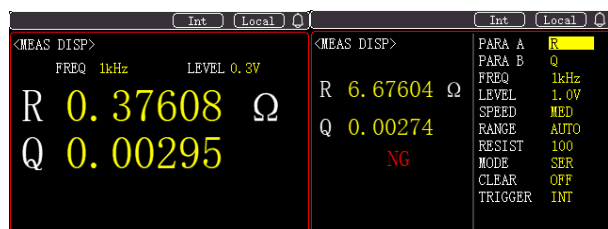
Benchtop LCR Meters



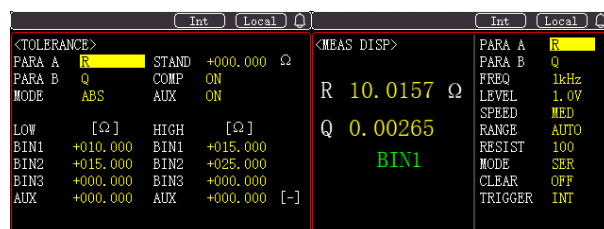
UTR2810+ series LCR digital bridge is a new generation of low frequency components measuring instrument launched by UNI-T. Small size, light weight, beautiful appearance, simple operation, ultra-high cost performance and good test stability. It can meet the needs of production line quality assurance, incoming inspection and automatic production.

- Test frequency: 100 / 120 / 1K / 10kHz
- Basic accuracy 0.1%
- Test level: 0.1/0.3/1Vrms
- Measurement parameters: C, L, Z, R, X, G, B, Y, Q, D, θ
- 30 Ω and 100 Ω output impedance

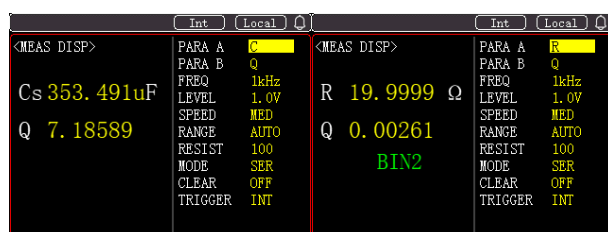
- Comparator: four gear, BIN1/BIN2/BIN3/NG
- Fast test speed (30ms/time)
- 2.8-inch TFT LCD display, all measurement results and parameters are clear at a glance
- RS232 communication, following the standard SCPI communication protocol



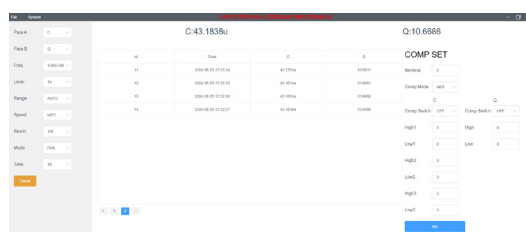
- 2.8inch TFT LCD, full-color display more content. Supports full-screen display for clearer measurement results



- The comparator function can realize 4-gear sorting



- The basic test accuracy is 0.1%, which can test a variety of electronic components

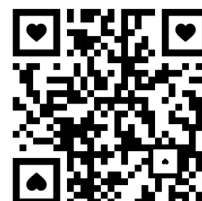


- Support remote control. PC can set, view and analyze data

Key Specifications		UTR2810E+	UTR2811E+
Test frequency	Frequency range	100Hz,120Hz,1kHz,10kHz	
	Minimum resolution	Four digit display	
	Accuracy	0.02%	
AC level	Voltage range	0.1V,0.3V,1V	
	Accuracy	±10%×Set value	
Internal resistance of AC source	Resistance	30Ω / 100Ω Optional	
	Output impedance accuracy	±5%	
Measurement parameters		Cs-Rs, Cs-D, Cp-Rp, Cp-D, Lp-Rp, Lp-Q, Ls-Rs, Ls-Q, Rs-Q, Rp-Q, R-X, Z-θr, Z-θd, Z-D, Z-Q, Auto LCZ	
Display range		R, X, Z :0.00001Ω - 99.9999MΩ; G, B, Y :0.01nS - 999.999S; L:0.00001uH - 9999.99H; C:0.00001pF - 9999.99mF; D; 0.00001 - 9.99999; Q:0.00001 - 99999.9; θd: -179.999° - 179.999°; θr:-3.14159 - 3.14159;	
Test speed (mS / time)		Fast: 43ms; Medium speed: 185ms; Slow speed: 350ms	
Test end configuration		Open circuit, short circuit, load	
Equivalent mode		Series, parallel	
Range mode		Auto, hold	
Trigger mode		Internal, manual, external(only UTR2810E+), bus UTR2810E+	
Mathematical operation		Direct reading, Δ ABS, Δ %	
Comparator		4-gear sorting, BIN1-BIN3, NG, AUX	
Interface		RS232,HANDLER	--

General Characteristics	
Power	AC 110V/220V 50/60Hz
Display	2.8" TFT LCD 240×320
Product size (W×H×D)	174 mm× 88 mm× 267 mm
Product net weight	2.15kg
Standard quantity per carton	1pcs
Standard carton size	375mm×270mm×200mm

Ordering Information	
UTR2810+ Series Benchtop LCR Meters	UTR2810E+:Benchtop LCR Meters (10kHz, 0.1%)
	UTR2811E+:Benchtop LCR Meters (10kHz, 0.1%)
Standard Accessories	UTR-001:Short circuit board (UTR2810E+)
	UTR-L10kE:Kelvin test cable with crocodile clip
	UTR-S100KE:4-wire test box (UTR2810E+)
	RS232 Communication cable (UTR2810E+)



UTR2810+ Series

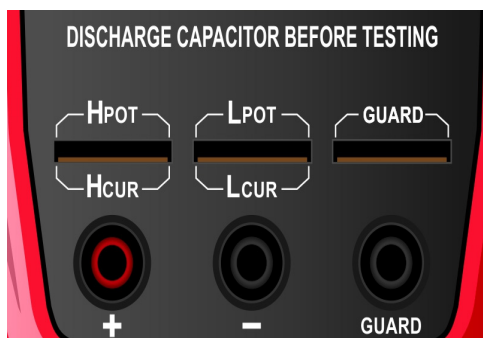
UT622 Series

Handheld LCR Meters



UT622 Series Handheld LCR meters feature powerful functions, high accuracy, fast speed, and long standby time. With a clear and intuitive 2.8-inch TFT LCD display, large-capacity rechargeable battery, and up to 100kHz test frequency, the meters can be used for longstanding accurate and convenient measurement in any occasion. They are suitable for the measurement and screening of inductance, capacitance, and resistance in laboratories, production lines, maintenance points, etc.

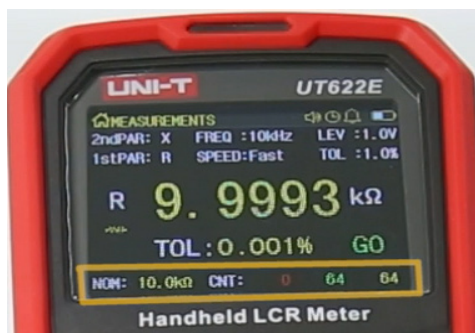
- Up to 100kHz test frequency
- Up to 0.1% measurement accuracy
- High-brightness white backlight
- Max reading of primary parameters: 99999 counts; D/Q resolution: 0.0001
- Ultra-low power consumption and long battery life (8 hours)
- Maximum test speed: 20 times/s (UT622E)
- Constant 100Ω output impedance
- Tolerance range: 1%-20%
- Open/short circuit clear function
- Data hold and recording mode
- Standard Mini-USB interface, SCPI command set



- 3-terminal and 5-terminal test ports



- L/C/R/Z main parameter component test



- Tolerance mode used for component sorting

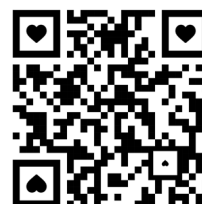


- Recording mode used for statistics

Key Specifications	UT622A	UT622C	UT622E
Test frequency	100Hz, 120Hz, 1kHz, 10kHz	100Hz, 120Hz, 1kHz, 10kHz, 100kHz	100Hz, 120Hz, 1kHz, 10kHz, 100kHz
Test signal level	0.1Vrms, 0.3Vrms, 1Vrms		
Output impedance	100Ω		
Measurement parameters	Primary: L/C/R/Z Secondary: D/Q/θ/ESR		Primary: L/C/R/Z/DCR Secondary: D/Q/θ/ESR
Auto LCR	√		
Test terminals	Three-terminal test jacks, five-terminal test sockets		
Test rate	Fast (20 times/s), medium (5 times/s), or slow (2 times/s)		
DCR test rate	--	--	Fast (20 times/s), medium (5 times/s), or slow (2 times/s)
Ranging mode	Auto/hold		
Tolerance range	1%-20%		
Testing circuit mode	Series/parallel mode		
Clearing correction	Open/short circuit		
Communication interface	Mini-USB		
LED alarm for tolerance	(pass: green; fail: red)		
Display range			
Display count	99999		
Minimum resolution	0.0001		
Maximum accuracy	0.1%		
L	0.001μH-9999.9H		
C	0.001pF-99.999mF		
Z/R	0.0001Ω-99.999MΩ		
ESR	0.01mΩ-999.99Ω		
D	0.0001-9.9999		
Q	0.0001-99999		
θ	-179.9°-179.9°		
DCR	--		0.01mΩ-999.99kΩ

General Characteristics	
Power	3.7V 1800mAh lithium polymer battery
Display	2.8 inches TFT LCD 320×240
Product size (W×H×D)	90mm×190mm×44mm
Product net weight	305g
Standard quantity per carton	5pcs
Standard carton size	335mm×245mm×245mm
Standard carton gross weight	3.9kg

Ordering Information	
UT622 Series	UT622E:Handheld LCR Meters (100kHz, 0.1%, DCR)
	UT622C:Handheld LCR Meters (100kHz, 0.1%)
	UT622A:Handheld LCR Meters (10kHz, 0.1%)
Standard Accessories	UTR-001:Short circuit board
	UTR-002:Alligator clip test leads with rubber plugs (UT622A)
	UTR-L100k-H:Four-terminal Kelvin test leads (UT622C/E)
	USB interface cable
	5V 1A power adapter
Optional Accessories	UTR-L100kS-H:SMD Kelvin test tweezers
	UTR-L100k-H:Four-terminal Kelvin test leads
	UTR-002:Alligator clip test leads with rubber plugs



UT622 Series

Battery Testers

Selection Guide

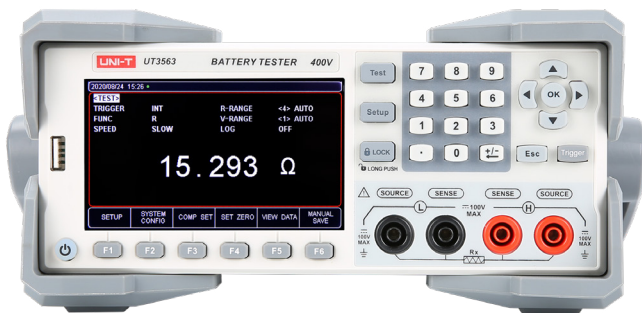
Series	Model	Voltage Range	Resistance Range	Accuracy	On-line Measurement	Display
UT3560	UT3563	0.00001V-400.000V	0.0001mΩ-3.2000kΩ	V:0.01%R:0.5%	No	4.3inch TFT LCD
	UT3562	0.00001V-100.000V				
UT3550	UT3550	0.0001V-100.00V	0.001mΩ-30.00Ω	V:0.05%R:0.5%	Yes	3.5inch TFT LCD

Accessories

Model	Picture	Information	Certification	Series
UT-L80		Crown probe test lines (Four terminal connection type)	ROW	UT3560
UT-L81		Kelvin Clips Test Wire (four-terminal wiring type)		UT3560; UT3550
UT-L82		Kelvin test lead (four-terminal wiring type)		UT3560
UT-L87		Kelvin test lead (four-terminal wiring type)		UT3560; UT3550
UT-L86		Crown probe test lines (Four terminal connection type)		UT3560; UT3550

UT3560 Series

Battery Tester



The UT3560 Series Battery Testers contain 2 models: UT3562 and UT3563, which are used to detect the battery internal resistance, include battery module test, battery R&D measurement, high-voltage battery set test, and high-speed assembly line tests of lithium battery, lead-acid battery and button battery.

- 31,000-count AC resistance reading, 606,000-count DC voltage reading
- Resistance: 0.0001mΩ-3.2kΩ
- Voltage: 0.00001V-400.000V DC
- Manual range, automatic range switching function
- 0.5% resistance accuracy, 0.01% high precision voltage accuracy

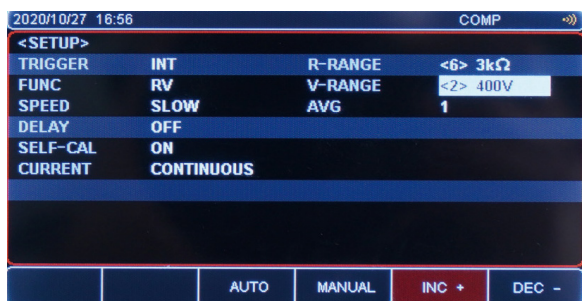
- Handler, RS-232, USB Device interfaces, SCPI and Modbus protocol
- With recording and statistics functions, up to 10,000 sets of data can be calculated
- 4.3 inch large screen LCD display



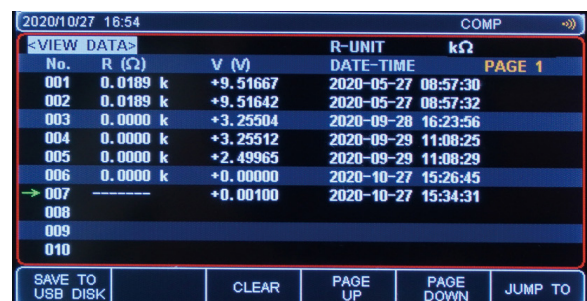
- 5 Resistance readings, 6 voltage readings, high precision and high resolution accuracy



- Can set the impedance and voltage upper and lower limit comparison function



- Manual range, automatic range switching function



- The instrument has record and statistical file management functions

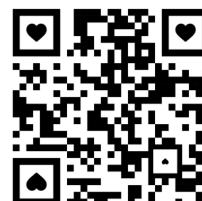
Key Specifications	UT3562	UT3563
Voltage range	6V/60V/100V	6V/60V/100V/400V
Resolution	Resistance: 0.1μΩ, Voltage: 10μV	
Speed	Slow/Medium/Rapid/High-speed	
Resistance range	3mΩ/30mΩ/300mΩ/3Ω/30Ω/300Ω/3kΩ	
Temperature coefficient	Voltage: (±0.001%rdg,±0.3dgt)/°C; Resistance: (±0.05%rdg,±0.5dgt)/°C	
Basic accuracy	Resistance: 0.5%, Voltage: 0.01%	
Range mode	Auto and manual (resistance and voltage)	
Calibration	Short-circuit full range zeroing	
Sorting function	2 types of sorting result output: PASS/FAIL	
Beeper	OFF, PASS, FAIL	
Comparing method	Absolute tolerance, percentage tolerance, direct-reading comparison	
Button functions	Lock -keyboard lock, Print Sc -screenshot	
System setup	Language: Chinese/English, key tone setting	
Storage	FAT storage function (supports USB disk storage, mobile hard disk drive is not supported)	
Interfaces & protocols	Handler interface, RS-232 and USB communication interface, SCPI and Modbus protocol	
PC software	√	

General Characteristics

Power	AC 100-240V,50/60Hz
Display	4.3 inch LCD
Product size (W×H×D)	340mm x 214mm x 89mm
Product net weight	2.6kg
Standard quantity per carton	2pcs
Standard carton size	420mm x 360mm x 405mm
Standard carton gross weight	8.6kg

Ordering Information

UT3560 Series	UT3563: Battery Testers (400V, 3.2kΩ)
	UT3562: Battery Testers (100V, 3.2kΩ)
Standard Accessories	International standard power cord
	UT-L82: Kelvin test lead x1
	UT-L80: Crowd test lead x1
Optional Accessories	UT-L81: alligator clip test lead



UT3560 Series

UT3550 Series

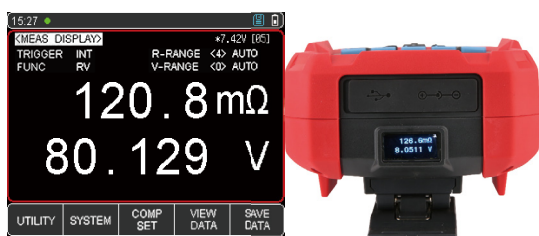
Battery Tester



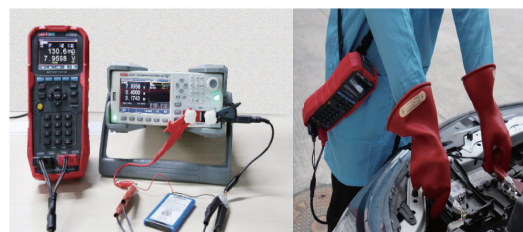
The UT3550 is a hand-held battery tester with automatic real-time detection. The portable handheld design allows flexible test scenarios. It is a measuring instrument with high accuracy and high resolution. Equipped with USB type C interface for remote control and data acquisition and analysis. Support SCP protocol. It is mainly used in the quality inspection of various batteries. UPS can be directly measured online with high accuracy.

- High-accuracy: Resistance 0.5%/Voltage 0.05%
- Internal resistance measurement range: 0.001 mΩ - 30.00Ω
- Voltage measurement range: 0.0001V - 100.00V
- Resolution: 0.001 mΩ (resistance), 0.1 mV (voltage)
- Comparison mode: SEO, PER, ABS
- The new AC internal resistance test method, measures almost all types of batteries
- 3.5 inch LCD main display

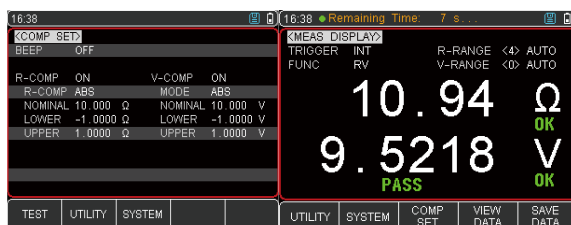
- 0.96 inch auxiliary display screen
- UPS can be measured directly online
- USB data storage and screenshot saving function
- Lithium battery power supply (2000mAh)
- Provide type C interface to realize remote control
- Support SCPI protocol
- Protection grade IP65



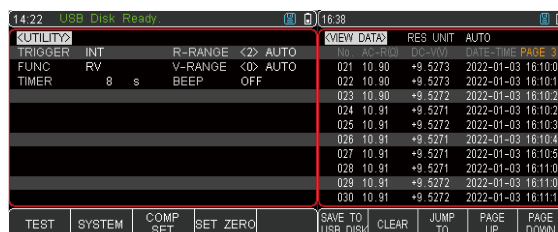
- 3.5 inch LCD, full-color display more content. 0.96 inch auxiliary screen provides convenience for outdoor operation.



- Support online testing, fixed and mobile scenario testing.



- Three comparison modes: direct reading value, percentage and absolute value. Help you with quick battery screening.



- Set the interval time to automatically record the measurement data. Up to 500 sets of data can be saved. Exportable CSV format documents to USB flash disk to facilitate data analysis.

Key Specifications	UT3550
Voltage range	10V,100V
Voltage resolution	100μV,1mV
Voltage accuracy	±0.05%rdg ±5dgt
Resistance range	3mΩ,30mΩ,300mΩ,3Ω,30Ω
Resistance resolution	1μΩ,10μΩ,100μΩ,1mΩ,10mΩ
Resistance accuracy	±0.5%rdg ±5dgt
Range Mode	Auto and Manual(resistance and voltage)
Calibration	Short circuit full range to zeroed
Testing Speed	1/s(manual range)
Filter function	low limit and conform.Sorting result has two output situations: PASS and FAIL.
Beeper	OFF, OK, NG
Comparison Mode	Absolute deviation(ABS), Relative deviation(PER),Directreading(SEQ)
Other Function	Lock keypad, U disk storage, keypad tone, Chines/English language, screenshot
Test Terminal	Four-terminal test method
Trigger	Internal, manual and remote trigger
Storage	Internal 500 groups, exportable CSV files
Interface	Type-c interface (communication)/USB DEVICE (storage)/charge interface
Upper-computer Software	SCPI

General Characteristics	
Power	AC 100-240V, 50/60Hz
Display	3.5 inch LCD display +0.96 inch OLED on the top
Product size (W×H×D)	114.5mm×251.9mm×85.3mm
Product net weight	0.84kg
Standard quantity per carton	2pcs
Standard carton size	285mm× 240mm × 325mm
Standard carton gross weight	2.1kg

Ordering Information	
UT3550 Series	UT3550:Battery Testers (100V, 30Ω)
Standard Accessories	Power adapter
	Soft carrying pouch 1pc
	Shoulder belt 1pc
	USB communication cable-Type-C 1pc
	Magnetic strap 1pc
	UT3550 kelvin clips wire 1pc
Optional Accessories	UT3550 crown pen test line



UT3550 Series

Micro Ohm Meters

Selection Guide

Series	Model	Display Count	Number of channels	Resistance Range	Accuracy	Measurement Rate	Display
UT3515-Sx	UT3515-S30	4½	Rear Panel: 30 CH Front Panel: 1 CH	1μ - 200kΩ , 2 MΩ (Front panel single channel)	0.05%	High speed: 230ms/10 chs	4.3" TFT LCD
	UT3515-S20	4½	Rear Panel: 20 CH Front Panel: 1 CH		0.05%	High speed: 230ms/10 chs	4.3" TFT LCD
	UT3515-S10	4½	Rear Panel: 10 CH Front Panel: 1 CH		0.05%	High speed: 230ms/10 chs	4.3" TFT LCD
UT3510+	UT3516+	4½	1 CH	1μΩ~2MΩ	0.05%	100/s	4.3" TFT LCD
	UT3513+	4½	1 CH	1μΩ~20kΩ	0.05%	100/s	4.3" TFT LCD

UT3515-Sx Series **NEW**

Micro Ohm Meter



The UT3515-Sx series of benchtop Micro Ohm Meter includes the UT3515-S10, UT3515-S20 and UT3515-S30 models. 4.3-inch LCD display. With high precision, high resolution and high speed measurement characteristics, with the highest accuracy of 0.05%, the minimum resolution of 1 $\mu\Omega$. UT3515-Sx series standard RS-232C, RS485, LAN port and HANDLER communication interface, support for SCPI and MODBUS RTU protocols, and can be with the computer, PLC or WINCE device communication, and efficiently complete the remote control and data acquisition functions.

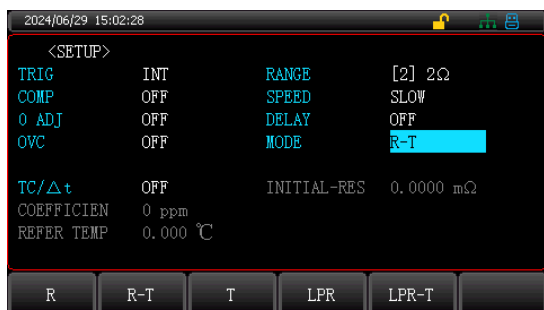
- 4.3-inch TFT LCD display
- 0.05% accuracy
- Minimum resolution 1 $\mu\Omega$, 4 1/2 digit data display
- 10,20,30 channels scan measurement
- Measuring range: 1 $\mu\Omega$ - 200k Ω , 2M Ω (single mode)
- Combination of R,LPR,T multiple test functions
- Low voltage (LRP) test mode
- Temperature compensation function (TC)
- Temperature conversion function (Δt)
- With U drive data storage and screenshot saving function
- Comparator sorting and beeping functions
- Support data saving and data viewing
- Test speed: High speed: 230ms/10 chs; Fast speed: 350ms/10 chs; Medium speed: 850ms/10 chs; Slow speed: 3400ms/10 chs
- Built-in temperature compensation interface



- One-touch switching in the setup menu, flexible application of front-end single mode testing or rear-panel multi-channel scanning.



- 30-channel high-speed scanning measurement. Synchronized display. Measurement results can be sorted in three levels.



- Multiple test modes (only single mode)

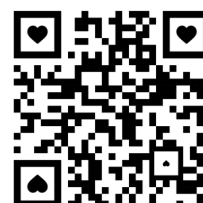


- Logging: Up to 10000 groups of data can be recorded

Technical Specifications	UT3515-S10	UT3515-S20	UT3515-S30
Number of channels	10	20	30
Resistance range	1μΩ - 200kΩ, 2 MΩ (single mode)		
Resolution	1μΩ/10μΩ/100μΩ/1mΩ/10mΩ/100mΩ/1Ω/10Ω/100Ω		
Test current	1A/1A/100mA/10mA/1mA/1mA/100μA/10μA/1μA		
Open-circuit Voltage on Test End	<1V/<1V/<1V/<2.7V/<2.7V/<2.7V/<2.7V/<2.7V/<2.7V		
Test mode	R,T,R-T,LPR,LPR-T		
Basic accuracy	0.05%		0.05%
Reading resolution	4½		
Range mode	Auto/manual/nominal		
Test speed	Multi-Channel Test speed: High speed: 230ms/10 chs; Fast speed: 350ms/10 chs; Medium speed: 850ms/10 chs; Slow speed: 3400ms/10 chs		
Calibration	Short-circuit full range zeroing		
Comparator	6-BIN sorting(single mode), 3-BIN sorting (multi-channel)		
Statistics and logging	10000	10000	10000
Bias voltage compensation	Yes	Yes	Yes
Temperature compensation	Yes	Yes	Yes
Temperature conversion	Yes	Yes	Yes
Communication interface	RS232,RS485,HANDLER,LAN	RS232,RS485,HANDLER,LAN	RS232,RS485,HANDLER,LAN

General Characteristics	
Power	AC 100~240V, 50/60Hz
Display	4.3 inch LCD
Product size (W×H×D)	215mm x 88mm x 348.5mm
Product net weight	2.65kg
Standard quantity per carton	1pcs
Standard carton size	515mm x 365mm x 220mm
Standard carton gross weight	8.5kg

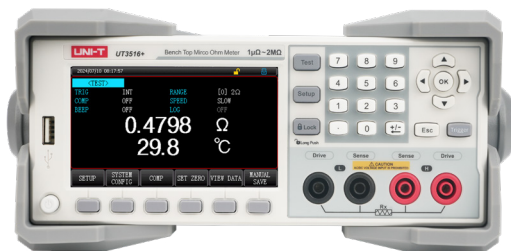
Ordering Information	
UT3515-Sx Series	UT3515-S30:30CH, 4½ display count, R: 1 μΩ-2 MΩ, Accuracy: 0.05%, Test speed: 230ms/10CH, RS232/RS485, LAN, Handler, USB Host, Wide voltage
	UT3515-S20:20CH, 4½ display count, R: 1 μΩ-2 MΩ, Accuracy: 0.05%, Test speed: 230ms/10CH, RS232/RS485, LAN, Handler, USB Host, Wide voltage
	UT3515-S10:10CH, 4½ display count, R: 1 μΩ-2 MΩ, Accuracy: 0.05%, Test speed: 230ms/10CH, RS232/RS485, LAN, Handler, USB Host, Wide voltage
Standard Accessories	International standard power cord 1pcs
	RS232 dual-female communication cable 1pcs
	Kelvin test cable 1pcs
	3.81-4P plug 10/20/30 pcs
	PT1000 temperature sensor test cable 1pcs



UT3515-Sx Series

UT3510+ Series

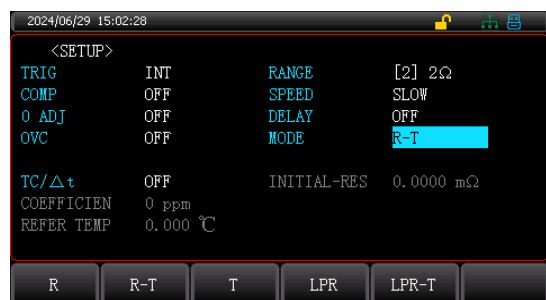
Micro Ohm Meter



The UT3510+ series of benchtop Micro Ohm Meter includes the UT3513+ and UT3516+ models. 4.3-inch LCD display. With high precision, high resolution and high speed measurement characteristics, with the highest accuracy of 0.05%, the minimum resolution of 1 $\mu\Omega$. UT3513 + and UT3516 + standard RS-232C, RS485, LAN port and HANDLER communication interface, support for SCPI and MODBUS RTU protocols, and can be with the computer, PLC or WINCE device communication, and efficiently complete the remote control and data acquisition functions.

- 4.3-inch TFT LCD display
- 0.05% accuracy
- Minimum resolution 1 $\mu\Omega$, 4½ digit data display
- UT3513+ Measuring range: 1 $\mu\Omega$ - 20k Ω
- UT3516+ Measuring range: 1 $\mu\Omega$ - 2M Ω
- Combination of R,LPR,T multiple test functions
- Low voltage (LRP) test mode

- Temperature compensation function (TC)
- Temperature conversion function (Δt)
- With U drive data storage and screenshot saving function
- Comparator sorting and beeping functions
- Support data saving and data viewing
- Maximum test speed 10ms/time
- Built-in temperature compensation interface



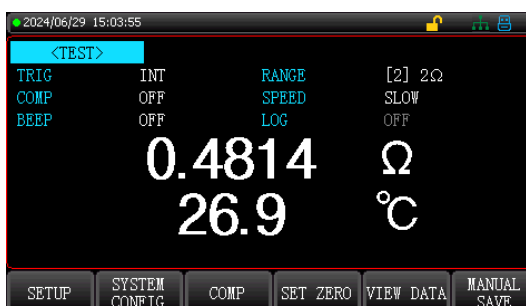
- R/R-T/T/LPR/LPR-T five modes can be selected, LPR is a low-voltage test mode, can effectively protect the DUT



- 6 bins comparator



- Logging: Up to 10000 groups of data can be recorded;
- Statistics: up to 10,000 sets of data, process capability index calculation possible

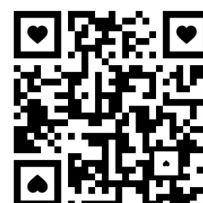


- Temperature correction and conversion

Key Specifications	UT3513+	UT3516+
Resistance range	1μΩ - 20 kΩ	1μΩ - 2 MΩ
Resolution	1μΩ/10μΩ/100μΩ/1mΩ/10mΩ/100mΩ/1Ω/10Ω/100Ω	
Test current	1A/1A/100mA/10mA/1mA/1mA/100μA/10μA/1μA	
Open-circuit Voltage on Test End	" <1V/<1V/<1V/<2.7V/<2.7V/<2.7V/<2.7V/<2.7V/<2.7V LPR mode:<40mV"	
Test mode	R,T,R-T,LPR,LPR-T	
Basic accuracy	0.05%	0.05%
Reading resolution	4½	
Range mode	Auto/manual/nominal	
Test speed	High speed 10 ms/time, fast speed 17 ms/time, medium speed 56 ms/time, slow speed 334 ms/time	
Calibration	Short-circuit full range zeroing	
Comparator	6-BIN sorting	6-BIN sorting
Statistics and logging	10000	10000
Bias voltage compensation	Yes	Yes
Temperature compensation	Yes	Yes
Temperature conversion	Yes	Yes
Communication interface	RS232,RS485,HANDLER,LAN	RS232,RS485,HANDLER,LAN

General Characteristics	
Power	AC 100-240V, 50/60Hz
Display	4.3 inches LCD
Product size (W×H×D)	215mm x 88mm x 348.5mm
Product net weight	2.5kg
Standard quantity per carton	1pcs
Standard carton size	515mm x 365mm x 220mm
Standard carton gross weight	8.5kg

Ordering Information	
UT3510+ Series	UT3516+:Micro Ohm Meter (2MΩ, accuracy: 0.05%)
	UT3513+:Micro Ohm Meter (20kΩ, accuracy: 0.05%)
Standard Accessories	International standard power cord
	RS232 dual-female communication cable
	Kelvin test cable
	PT1000 temperature sensor test cable (only UT3516+)



UT3510+ Series

Power Meters

Selection Guide

Series	Model	Voltage Range	Current Range	Frequency Range	Accuracy	Wiring Method	Measurement Mode	Harmonic Analysis
UTE300	UTE323	75mV-600V	2.5mA-20A	DC,0.1Hz~300kHz	±(0.1%reading+0.05%range)	1P3W, 3P3W, 3P4W, 3V3A	DC RMS VMean	yes
	UTE323G							
	UTE310H	75mV-1000V	5mA-50A	DC,0.1Hz~300kHz	±(0.1%reading+0.05%range)	1P2W	DC RMS MN	yes
	UTE310HG							
	UTE310	75mV-600V	25µA-20A	DC,0.1Hz~300kHz	±(0.1%reading+0.05%range)	1P2W	DC RMS MN	yes
	UTE310G							
UTE9800+	UTE9802+	3.0V-600V	0.5mA-20.0A	DC, 40Hz~400Hz	±(0.4% reading + 0.1%range+1digit)	1P2W	AC DC AC+D-C(T-RMS)	no
	UTE9806+	0.5V-600V	0.05mA-10.0A	40Hz~400Hz			AC	
	UTE9811+	3.0V-600V	5mA-20.0A	40Hz~70Hz				yes

Accessories

Model	Picture	Information	Certification	Series
UTE-L10A		10A AC plug to banana head power connecting wire, 16A Connecting wire with alligator clip	ROW	UTE9800+
UTE-M01-EU		Power Meter Test Fixture (French elbow two-pronged round plug)	CE	UTE300
UTE-M01-US		Power Meter Test Fixture (American three-pronged plug)		

UTE300 Series **NEW**

Power Meter

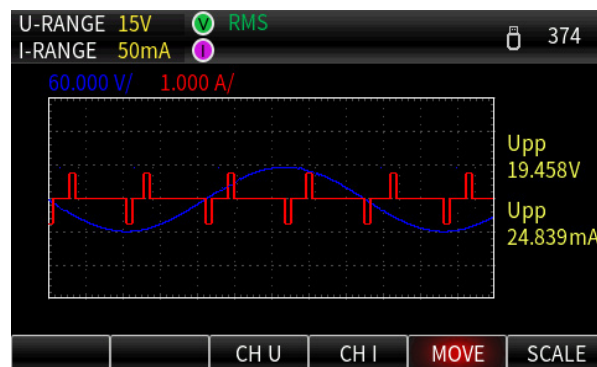


- Supports single-phase and three-phase measurement
- 4.3"/5" TFT-LCD display
- Measuring range of voltage and current RMS: 25 μ A~50A / 75mV~1000V
- Voltage and current highest resolution: 1mV/0.1 μ A
- Basic accuracy of voltage, current and power: 0.1%
- Highest power resolution: 0.001mW

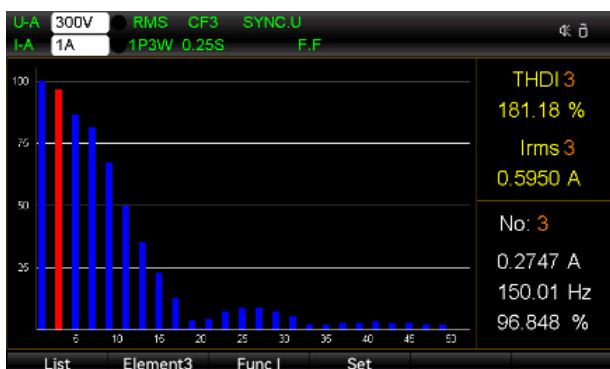
- Measurement bandwidth: 0.1Hz~300kHz
- Sampling rate: 1MS/s
- Abundant communication interfaces: USB, RS-232 or GPIB, LAN
- Can support both Modbus and SCPI communication protocols
- Voltage and current waveform display, harmonic graph display, D/A output for measurement recording, comparator function, current sensor input, USB data storage



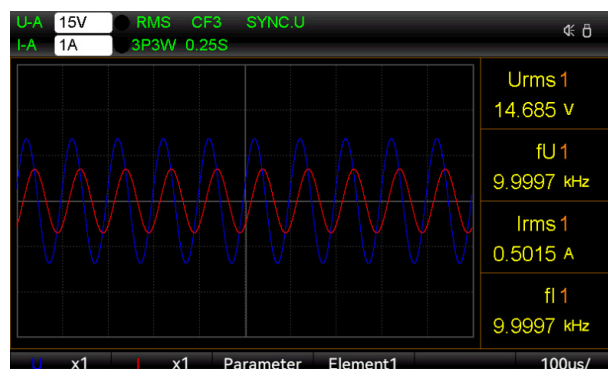
- 5" TFT color screen, multi-parameter display



- 1MS/s sample rate, more accurate transient signal measurement



- 50th harmonic Support IEC61000-4-7 standard

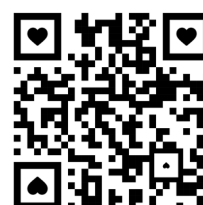


- 300 kHz analog bandwidth for capturing higher frequency signals

Key Specifications		UTE310	UTE310G	UTE310H	UTE310HG	UTE323	UTE323G
Bandwidth		DC,0.1Hz~300kHz		DC,0.1Hz~300kHz		DC,0.1Hz~300kHz	
Input channels		1		1		3	
Sample rate		1MS/s		1MS/s		300kS/s	
Voltage	Range	CF=3,15V/30V/60V/ 150V/300V/600V CF=6 or 6A, 7.5V/15V/ 30V/75V/150V/300V		CF=3, 15V/30V/60V/150V/300V/600V/ /1000V CF=6 or 6A, 7.5V/15V/30V/ 75V/150V/300V/500V		CF=3,15V/30V/60V/ 150V/300V/600V CF=6 or 6A, 7.5V/15V/ 30V/75V/150V/300V	
	Resolution	0.001V/0.01V		0.001V/0.01V/0.1V		0.001V/0.01V	
Current	Range	CF=3, 5mA/10mA/20mA/ 50mA/100mA/ 200mA/500mA/1A/ 2A/5A/10A/20A CF=6 or 6A, 2.5mA/ 5mA/10mA/25mA/ 50mA/100mA/250mA/ 0.5A/1A/2.5A/5A/10A		CF=3, 1A/2A/ 5A/10A/20A/50A CF=6 or 6A, 0.5A/1A/ 2.5A/5A/10A/25A		CF=3, 500mA/1A/2A/ 5A/10A/20A CF=6 or 6A, 250mA/ 0.5A/1A/2.5A/5A/10A	
	Resolution	0.0001mA/0.001mA/ 0.01mA/0.1mA/1mA		0.1mA/1mA		0.01mA/0.1mA/1mA	
Sensor channel Ext1 & Ext2	Range	CF=3, 50mV/ 100mV/200mV/ 500mV/1V/2V/5V/10V CF=6 or 6A, 25mV/50mV/ 100mV/250mV/ 500mV/1V/2.5V/5V		CF=3, 50mV/100mV/200mV/500m- V/1V/2V/5V/10V CF=6 or 6A, 25mV/50mV/100m- V/250mV/500mV/1V/2.5V/5V		CF=3, 50mV/ 100mV/200mV/500mV/ 1V/2V/2.5V/5V/10V CF=6 or 6A, 25mV/50mV/ 100mV/250mV/0.5V/ 1V/1.25V/2.5V/5V	
Power	Range	75mW~12000W		15mW~50000W		750mW~12000W	
Frequency	Range	Different data refresh rates, different frequency ranges 0.1 S: 20Hz≥f≤300kHz 0.25 S: 10Hz≥f≤300kHz 0.5 S: 5.0Hz≥f≤300kHz 1 S: 2.0Hz≥f≤300kHz 2 S: 1.0Hz≥f≤300kHz 5 S: 0.5Hz≥f≤300kHz 10 S: 0.2Hz≥f≤300kHz 20 S: 0.1Hz≥f≤300kHz Auto: 0.1Hz≥f≤300kHz		Different data refresh rates, different frequency ranges 0.1 S: 20Hz≥f≤300kHz 0.25 S: 10Hz≥f≤300kHz 0.5 S: 5.0Hz≥f≤300kHz 1 S: 2.0Hz≥f≤300kHz 2 S: 1.0Hz≥f≤300kHz 5 S: 0.5Hz≥f≤300kHz 10 S: 0.2Hz≥f≤300kHz 20 S: 0.1Hz≥f≤300kHz Auto: 0.1Hz≥f≤300kHz		Different data refresh rates, different frequency ranges 0.1 S: 20Hz≥f≤300kHz 0.25 S: 10Hz≥f≤300kHz 0.5 S: 5.0Hz≥f≤300kHz 1 S: 2.0Hz≥f≤300kHz 2 S: 1.0Hz≥f≤300kHz 5 S: 0.5Hz≥f≤300kHz 10 S: 0.2Hz≥f≤300kHz 20 S: 0.1Hz≥f≤300kHz Auto: 0.1Hz≥f≤300kHz	
Waveform display		U and I		U and I		U and I	
Line filter		yes		yes		yes	
Frequency filter		yes		yes		yes	
Harmonic measurement		1-50 times,IEC61000-4-7		1~50 times,IEC61000-4-7		1-50 times,IEC61000-4-7	
Integral function		Average active power integration, current integration		Average active power integration, current integration		Average active power integration, current integration	
Math operation		yes		yes		yes	
DA output and control		yes		yes		yes	
Interface		RS-232, LAN,USB	GPIO, LAN,USB	RS-232, LAN,USB	GPIO, LAN,USB	RS-232, LAN,USB	GPIO, LAN,USB
Support protocol		Support SCPI ,Modbus		Support SCPI ,Modbus		Support SCPI ,Modbus	

General Characteristics	UTE310	UTE310G	UTE310H	UTE310HG	UTE323	UTE323G
Power	110V-220VAC, 50/60Hz				110V/220VAC, 50/60Hz	
Display	4.3inch TFT-LCD (480×272)				5-inch TFT-LCD (800×480)	
Product net weight	2.7kg				4kg	
Product size	254.2mm×113.2mm×403.08mm				225mm×158mm×400mm	
Standard quantity per carton	1pcs				1pcs	
Standard carton size	510mm×195mm×340mm				560mm×345mm×295mm	
Standard carton cross weight	4.3kg				5.3kg	

Ordering Information	UTE310	UTE310G	UTE310H	UTE310HG	UTE323	UTE323G
UTE300 Series Power Meter	UTE310: 1CH, 600V, 20A, 300kHz, Digital Power Meter					
	UTE310G: 1CH, 600V, 20A, 300kHz, Digital Power Meter, with GPIB					
	UTE310H: 1CH, 1000V, 50A, 300kHz, Digital Power Meter					
	UTE310HG: 1CH, 1000V, 50A, 300kHz, Digital Power Meter, with GPIB					
	UTE323: 3CH, 600V, 20A, 300kHz, Digital Power Meter					
	UTE323G: 3CH, 600V, 20A, 300kHz, Digital Power Meter, with GPIB					
Standard Accessories	Power cord conforming to the standard of the destination country				Power cord conforming to the standard of the destination country	
	Double banana head test line 1 pair				Double banana head test line 3 pair	
	Fork-type pre-insulated cold-pressed terminals 1 pair				Fork-type pre-insulated cold-pressed terminals 3 pair	
	Crocodile clip 1 pair				Banana plug-U-shaped terminal line 3 pair	
Optional Accessories	UTE-M01-US: Power Meter Test Fixture(American three-pronged plug)					
	UTE-M01-EU: Power Meter Test Fixture(French elbow two-pronged round plug)					



UTE300 Series

UTE9800+ Series

Power Meter



UTE9800+ Series is an economical portable intelligent electric parameter measuring instrument. Multifunctional measuring instrument integrating voltage, current, power, power factor and frequency. High cost performance, widely used in production, measure, quality and scientific research and other fields.

- Four windows simultaneously display.
- Adjustable data refresh rate to improve test efficiency
- Accuracy of voltage, current and power: $\pm (0.4\% \text{ reading} + 0.1 \text{ range} + 1 \text{ digit})$
- UTE9811+ maximum harmonic analysis 50 times
- UTE9802+ true RMS measurement
- Support average function, the reading is more stable
- RS-232/RS-485 serial communication interface, which can communicate with computer or PLC
- Support both SCPI and Modbus communication protocols
- The upper and lower limit alarm parameters of current and power can be set freely. It has audible and visual alarm indication, and can set delay alarm



- Four windows simultaneously display voltage, current, power, power factor / frequency, voltage wave crest ratio and current wave crest ratio. 5-digit high-precision display



- UTE9811+ adopts phase locked loop (PLL) synchronization method, and the maximum harmonic analysis is 50 times



- UTE9802+ true RMS measurement. Can measure AC,DC,AC+DC



- The upper and lower limit alarm parameters of current and power can be set freely. It has audible and visual alarm indication, and can set delay alarm

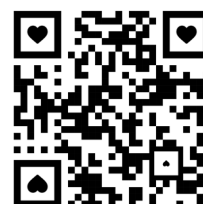
Key Specifications		UTE9802+	UTE9811+	UTE9806+
Measurements		V,A,W,PF/HZ	V,A,W,PF/HZ/THD/CF	V,A,P,VA,PF,HZ, Vpeak,Apeak
Measurement method		AC DC AC+DC(T-RMS)	AC	AC
Voltage	Range	3.0V-600V (75V/150V/300V/600V)	3.0V-600V	0.5V-600V(60V/600V)
	Accuracy	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)
	Resolution	0.01V/0.1V	0.01V/0.1V	0.01V/0.1V
Current	Range	0.5mA-20.0A (500mA/2A/8A/20A)	5.0mA-20.0A	0.05mA-10.0A (0.05A/0.1A/10A)
Current	Accuracy	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)
Current resolution	Resolution	0.0001A /0.001A	0.001A	0.01mA /0.1mA/1mA
Power	Range	1W-12kW	1W-12kW	1W-6kW
Power accuracy	Accuracy	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)	± (0.4% reading + 0.1% range + 1 digit)
Power Resolution	Resolution	0.001W/0.01W/0.1W/1W	0.01W/0.1W/1W	0.001W/0.01W/0.1W/1W
Power factor	Range	-1.000-1.000	-1.000-1.000	-1.000-1.000
	Accuracy	± (0.004+0.001 * reading+1 digit)	± (0.004+0.001 * reading+1 digit)	± 0.01
Frequency	Range	DC, 40Hz-400Hz	40Hz-70Hz	40Hz-400Hz
Frequency accuracy	Accuracy	±(0.1%reading+1digit)	±(0.1%reading+1digit)	±0.1%reading
Harmonic analysis	Times	–	1-50times	–
Harmonic accuracy	Accuracy	–	± (0.3 %range + 5 %reading+1 digit)	–
Range switching		Auto / manual	Auto	Auto / manual
Preheating time		>30min	>30min	>30min
Peak current		Maximum display 24A	Maximum display 24A	Maximum display 12A
Maximum input allowed for connection		Voltage700V,Current 24A	Voltage700V,Current 24A	Voltage700V,Current 14A
Instantaneous allowable maximum input		1000V,40A(1min)	1000V,40A(1min)	1000V,20A(1min)
Input impedance		Voltage: > 5 MΩ, current: < 0.02 Ω	Voltage: > 2 MΩ, current: < 0.02 Ω	Voltage: > 5 MΩ, current: < 0.02 Ω
Upper and lower limit function		Four settings for upper and lower limits of power and current:		
		P Hi (Power high),		
		P Lo(Power low),		
		A Hi(Current high),		
		A Lo(Current low)		
Interface		RS232,RS485		
		4800,9600,19200,38400,57600,115200		1200,2400,4800,9600,19200,38400, 57600,115200 optional
Support protocol		Support SCPI ,Modbus		
Display hold		Yes		
loudspeaker mute		Yes		
Key lock		Yes		

General Characteristics

Power	AC 100V-240V ,50/60Hz
Display	VA Broken code screen, 5 digits, four windows
Product net weight	3.2kg
Product size	214mm×88mm×340mm
Standard quantity per carton	2pcs
Standard carton size	410mm×330m×410mm
Standard carton cross weight	7kg

Ordering Information

UTE9800+ Series	UTE9802+:600V, 20A, 40Hz-400Hz,T-RMS
	UTE9811+:600V, 20A, 40Hz-70Hz,Harmonic analysis
	UTE9806+:600V, 10A, 40Hz-400Hz,AC
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 interface cable
Optional Accessories	UTE-L10A: 10A AC three-pin plug to banana head connection cable×1, 16A alligator clip connection cable×1, Power adapter×1



UTE9800+ Series

Safety Testers

Hipot Testers

Selection Guide

Series	Model	Channel	Voltage Range		Current Range		Resistance Range	Accuracy
			AC	DC	AC	DC		
UT5320R-SxA	UT5320R-S8A	8	0.050kV-5.000kV	0.050 kV–6.000kV	0.001mA-20mA	0.1μA-10.00mA	0.1MΩ-10GΩ	V:±(1.0%reading+5V); A:±(2.0%reading+5digits)
	UT5320R-S4A	4						
UT5300+	UT5320R+	1	0.050kV-5.000kV	0.050 kV–6.000kV	0.001mA-20mA	0.1μA-10.00mA	0.1MΩ-10GΩ	V:±(1.0%reading+5V); A:±(2.0%reading+5digits)
	UT5310R+				0.001mA-10mA	0.1μA-5.00mA	0.2MΩ- 10GΩ	
	UT5310D+						-	
	UT5310A+			-	-			

UT5320R-SxA Series

Hipot Testers



- 4.3 inch TFT true color LCD
- 4/8 channels, multiple outputs
- Support AC/DC withstand voltage test, IR insulation test, contact test
- Fully isolated and floating output
- AC withstand voltage (ACW): 5kV/20mA
- DC withstand voltage (DCW): 6kV/10mA
- Insulation resistance (IR): 2.5kV/10GΩ (optional to 5kV)
- Rise up time/slope down time/test time/compensation return to zero, multiple functions can be set flexibly

UT5320R-SxA series is an instrument that integrates multiple testing functions of electrical strength (AC/DC withstand voltage) and insulation resistance. It can be widely used in the safety performance inspection of household appliances, transformers, electrical equipment and components.

- Intelligent judgment: over-upper limit/over-lower limit/arc/over-charging lower limit (sound and light indication)
- Overvoltage/short circuit protection/rapid discharge/earth failure multiple protection
- Anti-electric wall technology detects the circuit at any time to prevent electric shock and ensure personnel safety
- Overvoltage, overcurrent protection, current base reset function
- Can store 100 test files, each file can store 20 test steps, test modes can be combined arbitrarily
- Comply with standard SCPI and Modbus communication protocols
- Equipped with Handler (PLC) interface, RS-232C and LAN interface

<RESULT LIST> Use the ▲/▼ key to turn page					
STEPS	Test Type	Dwell Time	VOLT	DATA	JUDGE
01	ACW	000.5 s	0.049 kV	0.005 mA	PASS
02	ACW	000.5 s	0.050 kV	0.005 mA	PASS
03	DCW	005.0 s	6.001 kV	0.1 uA	PASS
04	IR	005.0 s	2.500 kV	>10.0 GΩ	PASS
05					
06					
07					
08					
09					
10					

- Multiple test modes

(LOCAL) (LAN) DEFAULTS		Meas Setup
Test Step: 01/01 Test Type: DCW		System Setup
Voltage: 2.800 kV Arc Sense: OFF		COM Setup
Dwell Time: 001.0 s HI-Limit: 5.000 mA		File Setup
CH HI LO		
①		
②		
③		
④		
2.695 kV		
5.554 mA		
HI-Limit T: 001.0 s		

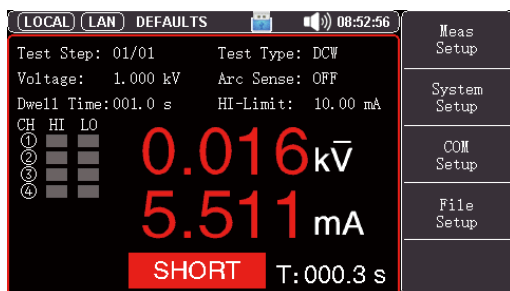
- Intelligent judgment: Provide a good prompt for the measurement work, and broadcast the results immediately.

(LOCAL) (232) DEFAULTS		Meas Setup
Test Step: 02/02 Test Type: IR		System Setup
Voltage: 2.500 kV Range: AUTO		COM Setup
Dwell Time: 000.5 s LO-Limit: 0.1 M		File Setup
CH HI LO		
①		
②		
③		
④		
⑤		
⑥		
⑦		
⑧		
2.501 kV		
>10.0 GΩ		
PASS T: 000.0 s		

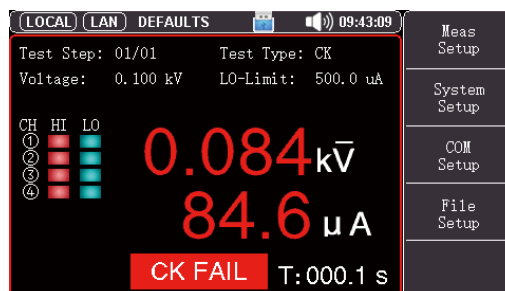
- Insulation resistance test voltage is 2.5kV as standard, 5.0kV is optional, suitable for more test occasions.

(LOCAL) (232) DEFAULTS		SCPI
<SYSTEM 2>		MODBUS
语言设置: English		
Data/Time: 2022-08-25 10:46:02		
Remote: RS232		
Protocol: SCPI		
Baud: 9600		
Result: AUTO		
InterLock: OFF		
Auto Save: OFF Default: RESET		

- Equipped with Handler (PLC), RS485 (option), RS-232C and LAN interface. Support SCPI and Modbus RTU dual protocols.



- Multiple protection functions provide you with a safer test environment



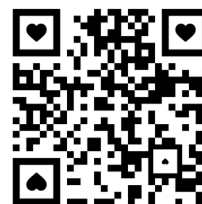
- Unique hardware contact test, fast and reliable

Key Specifications		UT5320R-S4A	UT5320R-S8A
Channel		4	8
Withstand voltage			
Output voltage(AC)	Voltage range	0.050kV-5.000kV	0.050kV-5.000kV
	Voltage wave-form	Sine wave	Sine wave
	Distortion degree	< 3%	< 3%
	Operating Frequency	50/60Hz	50/60Hz
	Frequency accuracy	±1%	±1%
	Output power	100VA(5.000kV 20mA)	100VA(5.000kV 20mA)
	Voltage regulation	±(1.0%+50V)(Rated power)	±(1.0%+50V)(Rated power)
Output voltage(DC)	Voltage range	0.050 kV-6.000kV	0.050 kV-6.000kV
	Signal source frequency	600Hz	600Hz
	Output power	60VA(6.000kV 10mA)	60VA(6.000kV 10mA)
	Voltage regulation	±(1.0% +100V) (Rated power)	±(1.0% +100V) (Rated power)
Voltage resolution		1V	1V
Voltage output accuracy	Voltage output accuracy	±(1.0%Set value+5V) (No load)	±(1.0%Set value+5V) (No load)
Voltage test accuracy	Voltage test accuracy	±(1.0%Reading+5V)	±(1.0%Reading+5V)
Insulation resistance			
Maximum output current		10mA	10mA
Maximum output power		25VA(2500V/10mA)	25VA(2500V/10mA)
Output instantaneous short-circuit current		>20mA(Set output voltage>500V)	>20mA(Set output voltage>500V)
Load regulation		≤1% (Rated power)	≤1% (Rated power)
Ripple(1kV)		≤3% (1kV,No load)	≤3% (1kV,No load)
Discharge function		Automatic discharge after test	Automatic discharge after test
Resistance measurement range		0.1MΩ- 10GΩ	0.1MΩ- 10GΩ
Resistance display range (1000V)		10mA 0.1 MΩ-0.5MΩ 2mA 0.5 MΩ-5 MΩ 200μA 5MΩ-50MΩ 20μA 50 MΩ-500MΩ 2μA 500MΩ-10GΩ	10mA 0.1 MΩ-0.5MΩ 2mA 0.5 MΩ-5 MΩ 200μA 5MΩ-50MΩ 20μA 50 MΩ-500MΩ 2μA 500MΩ-10GΩ
Accuracy of resistance measurement		≥500V 1MΩ- 1GΩ ±(5%Reading+5digits) 1GΩ- 10GΩ ±(10%Reading+5digits) < 500V 0.1MΩ-1GΩ ±(10%Reading+5digits) 1GΩ- 10GΩ For reference only, no accuracy requirements	≥500V 1MΩ- 1GΩ ±(5%Reading+5digits) 1GΩ- 10GΩ ±(10%Reading+5digits) < 500V 0.1MΩ-1GΩ ±(10%Reading+5digits) 1GΩ- 10GΩ For reference only, no accuracy requirements

Key Specifications		UT5320R-S4A	UT5320R-S8A
Current measurement accuracy		±(1.5%reading+5digits) (after clearing)	±(1.5%reading+5digits) (after clearing)
ARC Detector			
Measuring range	AC	Off, level 1 - 9	
	DC	Off, level 1 - 9	
Comparator			
Discrimination mode		Window comparison mode Current lower limit ON: pass when I lower limit < Ix < I upper limit; When Ix ≤ I lower limit or Ix ≥ I upper limit, fail. (I lower limit < I upper limit) Current lower limit OFF: when Ix < I upper limit, pass; When Ix ≥ I upper limit, fail. The discrimination method of insulation resistance is the same as above	
Current upper limit setting	AC	0.001mA - 20mA	0.001mA - 20mA
	DC	0.1μA - 10mA	0.1μA - 10mA
Current lower limit setting (LOWER OFF)	AC	0.001mA - 20mA	0.001mA - 20mA
	DC	0.1μA -10mA	0.1μA -10mA
Resistance upper limit setting		OFF, 0.1MΩ - 10GΩ	OFF, 0.1MΩ - 10GΩ
Resistance lower limit setting		0.1MΩ- 10GΩ	0.1MΩ- 10GΩ
Discriminant output		PASS/FAIL LCD and LED display respectively and sound alarm	
Interface & protocol		USB host,HANDLER,RS232C,Optional RS485,LAN. SCPI and Modbus RTU protocol	
Upper computer software		Yes	

General Characteristics		
Power	AC 110V/220V $\pm$ 10% 50-60Hz	
Display mode	4.3-inch LCD screen	
Product size(W×H×D)	280mm×88mm×428mm	280mm×88mm×428mm
Product net weight	16.27kg	16.87kg
Standard quantity per carton	1pcs	1pcs
Standard carton size	440mm×240mm×595mm	440mm×240mm×595mm
Standard carton gross weight	20.12kg	20.72kg

Ordering Information	
UT5320R-SxA Series	UT5320R-S8A: 8CH, AC / DC / IR programmable insulation withstand voltage tester (20mA)
	UT5320R-S4A: 4CH, AC / DC / IR programmable insulation withstand voltage tester (20mA)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 communication cable
	Red black test clip 1 pair
	High voltage rod test line (small type & no switch)
	Double-ended high-voltage test line (with clipse) 1 pair
	Double-ended high-voltage test line 8pcs/4pcs



UT5320R-SxA Series

UT5300+ Series

Hipot Testers



UT5310+ series can not only carry out AC withstand voltage test, DC withstand voltage test and insulation resistance test independently, but also carry out multi item test through the project setting of the test scheme. At the same time, UT5310+ series is equipped with HANDLER for industrial control, RS-232C for connecting computer and USB for data backup, so that the instrument can adapt to the automatic test system with high security and reliability.

- 4.3-inch TFT LCD, WVGA(800×480)
- Four test modes: AC/DC/IR/OS
- Withstand voltage test: AC 5kV/10mA, DC 6kV/5mA
- Measurement accuracy: 3%±2digits
- ARC detection function
- Comparator judgment function

- Support storage of up to 10000 test items
- USB host interface, supporting storage and screenshot
- Provide PLC interface, standard RS-232C interface and support SCPI protocol
- Provide upper computer software to support remote control

<RESULT LIST> Use the ▲/▼ key to turn page

STEPS	Test Type	Dwell Time	VOLT	DATA	JUDGE
01	ACW	000.5 s	0.049 kV	0.005 mA	PASS
02	ACW	000.5 s	0.050 kV	0.005 mA	PASS
03	DCW	005.0 s	6.001 kV	0.1 uA	PASS
04	IR	005.0 s	2.500 kV	>10.0 GΩ	PASS
05					
06					
07					
08					
09					
10					

- Multiple test modes

(LOCAL) (232) DEFAULTS 11:01:50

<FILE> Use the arrow keys in the list to select

NO.	File Name	Save Time	LOAD
94			
95			
96			
97			
98			
99			
100	DEFAULTS	CREATED BY SYSTEM	YES

SAVE
RECALL
ERASE
RENAME

- Programmable 100 groups of test files, each group can contain 20 steps of test operations.

(LOCAL) (232) DEFAULTS 11:18:21

Test Step: 01/01	Test Type: ACW
Voltage: 5.000 kV	Arc Sense: OFF
Dwell Time: 005.0 s	HI-Limit: 1.000 mA

5.002 kV
0.006 mA
PASS T: 000.0 s

Meas Setup
System Setup
COM Setup
File Setup

- Intelligent judgment:
Provide a good prompt for the measurement work, and broadcast the results immediately.

(LOCAL) (232) DEFAULTS 10:57:38

Test Step: 04/04	Test Type: IR
Voltage: 2.500 kV	Range: AUTO
Dwell Time: 005.0 s	LO-Limit: 500.1 M

2.500 kV
>10.0 GΩ
PASS T: 000.0 s

Meas Setup
System Setup
COM Setup
File Setup

- IR measurement
Insulation resistance test voltage is 2.5kV as standard, 5.0kV is optional, suitable for more test occasions.

Key Specifications		UT5310A+	UT5310D+	UT5310R+	UT5320R+
Channel		1	1	1	1
Withstand voltage					
Output voltage(AC)	Voltage range	0.050kV-5.000kV	0.050kV-5.000kV	0.050kV-5.000kV	0.050kV-5.000kV
	Voltage wave-form	Sine wave	Sine wave	Sine wave	Sine wave
	Distortion degree	< 3%	< 3%	< 3%	< 3%
	Operating Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
	Frequency accuracy	±1%	±1%	±1%	±1%
	Output power	50VA (5.000kV 10mA)	50VA (5.000kV 10mA)	50VA (5.000kV 10mA)	100VA (5.000kV 20mA)
	Voltage regulation	±(1.0%+50V) (Rated power)	±(1.0%+50V) (Rated power)	±(1.0%+50V) (Rated power)	±(1.0%+50V) (Rated power)
Output voltage(DC)	Voltage range	–	0.050 kV-6.000kV	0.050 kV-6.000kV	0.050 kV-6.000kV
	Signal source frequency	–	600Hz	600Hz	600Hz
	Output power	–	30VA (6.000kV 5mA)	30VA (6.000kV 5mA)	60VA (6.000kV 10mA)
	Voltage regulation	–	±(1.0% +100V) (Rated power)	±(1.0% +100V) (Rated power)	±(1.0% +100V) (Rated power)
Voltage resolution		1V	1V	1V	1V
Voltage output accuracy	Voltage output accuracy	±(1.0%Set value+5V)(No load)	±(1.0%Set value+5V) (No load)	±(1.0%Set value+5V) (No load)	±(1.0%Set value+5V) (No load)
Voltage test accuracy	Voltage test accuracy	±(1.0%Reading+5V)	±(1.0%Reading+5V)	±(1.0%Reading+5V)	±(1.0%Reading+5V)
Insulation resistance					
Maximum output current		–	–	5mA	10mA
Maximum output power		–	–	12.5VA(2500V/5mA)	25VA(2500V/10mA)
Output instantaneous short-circuit current		–	–	>10mA(Set output voltage>500V)	>20mA(Set output voltage>500V)
Load regulation		–	–	≤1% (Rated power)	≤1% (Rated power)
Ripple(1kV)		–	–	≤3% (1kV,No load)	≤3% (1kV,No load)
Discharge function		–	–	Automatic discharge after test	Automatic discharge after test
Resistance measurement range		–	–	0.2MΩ- 10GΩ	0.1MΩ- 10GΩ
Resistance display range (1000V)		–	–	5mA 0.2 MΩ-1 MΩ 1mA 1 MΩ-10 MΩ 100μA 10 MΩ-100 MΩ 10μA 100 MΩ-1GΩ 1μA 1GΩ-10GΩ	10mA 0.1 MΩ-0.5MΩ 2mA 0.5 MΩ-5 MΩ 200μA 5MΩ-50MΩ 20μA 50 MΩ-500MΩ 2μA 500MΩ-10GΩ
Accuracy of resistance measurement		–	–	≥500V 1MΩ- 1GΩ: ±5%±5 digits, 1GΩ-10GΩ : ±10%±5digits; < 500V 0.2MΩ-1GΩ: ±10%±5 digits	≥500V 1MΩ- 1GΩ ±(5%Reading+5digits) 1GΩ- 10GΩ ±(10%Reading+5digits) < 500V 0.1MΩ- 1GΩ ±(10% Reading+5digits) 1GΩ- 10GΩ For reference only, no accuracy requirements

Key Specifications		UT5310A+	UT5310D+	UT5310R+	UT5320R+
Current measurement accuracy		—	—	±(1.5%reading+5digits) (after clearing)	±(1.5%reading+5digits) (after clearing)
ARC Detector					
Measuring range	AC	Off, level 1 - 9			
	DC	Off, level 1 - 9			
Comparator					
Discrimination mode		Window comparison mode Current lower limit ON: pass when I lower limit < Ix < I upper limit; When Ix ≤ I lower limit or Ix ≥ I upper limit, fail. (I lower limit < I upper limit) Current lower limit OFF: when Ix < I upper limit, pass; When Ix ≥ I upper limit, fail. The discrimination method of insulation resistance is the same as above			
Current upper limit setting	AC	0.001mA - 10mA	0.001mA - 10mA	0.001mA - 10mA	0.001mA - 20mA
	DC	0.1μA - 5mA	0.1μA - 5mA	0.1μA - 5mA	0.1μA - 10mA
Current lower limit setting (LOWER OFF)	AC	0.001mA - 10mA	0.001mA - 10mA	0.001mA - 10mA	0.001mA - 20mA
	DC	0.1μA -5mA	0.1μA -5mA	0.1μA -5mA	0.1μA -10mA
Resistance upper limit setting		OFF,0.1MΩ - 10GΩ	OFF,0.1MΩ - 10GΩ	OFF,0.1MΩ - 10GΩ	OFF, 0.1MΩ - 10GΩ
Resistance lower limit setting		0.1MΩ- 10GΩ	0.1MΩ- 10GΩ	0.1MΩ- 10GΩ	0.1MΩ- 10GΩ
Discriminant output		PASS/FAIL LCD and LED display respectively and sound alarm			
Interface & protocol		USB host,HANDLER,RS232C,Optional RS485. SCPI and Modbus RTU protocol		USB host,HANDLER,RS232C,Optional RS485,LAN. SCPI and Modbus RTU protocol	
Upper computer software		Yes			

General Characteristics				
Power	AC 110V/220V±10% 50-60Hz			
Display mode	4.3-inch LCD screen			
Product size(W×H×D)	280mm×88mm×428mm	280mm×88mm×428mm	280mm×88mm×428mm	280mm×88mm×428mm
Product net weight	10.7kg	10.7kg	10.7kg	12.9kg
Standard quantity per carton	1pcs	1pcs	1pcs	1pcs
Standard carton size	440mm×240mm×595mm	440mm×240mm×595mm	440mm×240mm×595mm	440mm×240mm×595mm
Standard carton gross weight	13.8kg	13.8kg	13.8kg	16.0kg

Ordering Information	
UT5300+ Series	UT5320R+: 1CH, AC / DC / IR programmable insulation withstand voltage tester (20mA)
	UT5310R+: 1CH, AC / DC / IR programmable insulation withstand voltage tester (10mA)
	UT5310D+: 1CH, AC / DC programmable withstand voltage tester (10mA)
	UT5310A+: 1CH, AC programmable withstand voltage tester (10mA)
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 communication cable
	Red black test clip 1 pair
	High voltage rod test line (small type & no switch)



UT5300+ Series

Insulation Resistance Testers

Selection Guide

Series	Model	Voltage Range	Measurement Range	Measurement Rate	Display	Connectivity
UT5583	UT5583	1V-1000V (DC)	10kΩ-10TΩ	33/s	4,3" TFT LCD	RS232C,USB HOST, HANDLER,FOOT, LAN,RS485

Ground Bond Testers

Selection Guide

Series	Model	Voltage Range	Current Range	Impedance Range	Display	Connectivity
UT5140	UT5140	3.00 V~ 8.00 V	1.00 A~ 40.00 A	0 mΩ~100 mΩ	4.3" TFT LCD	USB Host, HANDLER, 232/485, LAN

Multi-channel Temperature Loggers

Selection Guide

Series	Model	Channel	Temperature Range	Resolution	Scanning Speed	Display	Connectivity
UT3200+	UT3248+	48	-200~1800°C	0.01°C	2/s	4.3inch TFT LCD	RS-232,LAN
	UT3240+	40					
	UT3232+	32					
	UT3224+	24					
	UT3216+	16					
	UT3208+	8					

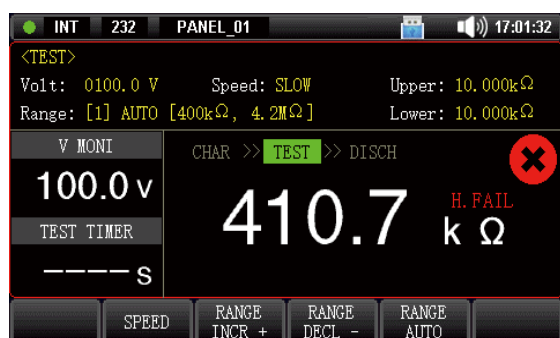
UT5583 Series

Insulation Resistance Tester

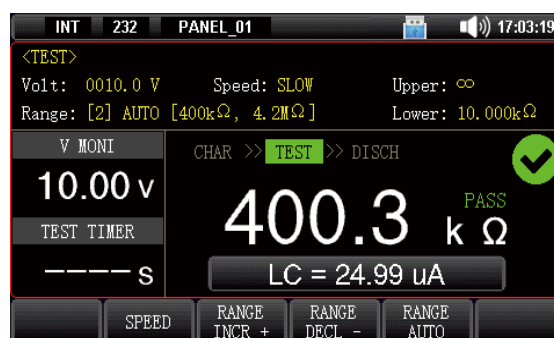


UT5583 Insulation Resistance Tester is a miniature desktop instrument with high performance and real-time detection. The instrument adopts a 4.3-inch true-color LCD display, a full digital keyboard, and a real-time operating system to make the display clearer and the operation more convenient. It can be used to measure the insulation resistance and leakage current of various electronic components, equipment, dielectric materials and wires and cables.

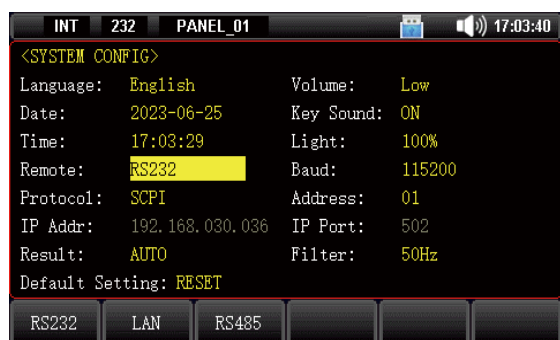
- 4.3 inch TFT-LCD display
- Real-time monitoring of output voltage
- Dual display of insulation resistance and leakage current
- Charging time, testing time and discharging time are adjustable
- Calibration function, full range open circuit reset
- Contact check function for capacitive materials
- Select digit display function (5 digits/4 digits)
- Comparator function to realize qualified and unqualified sorting
- Sorting judgment sound setting function
- Quick discharge function
- U disk data recording
- Can store 100 test files, support U disk file access
- Rich interface, support SCPI and MODBUS two protocols



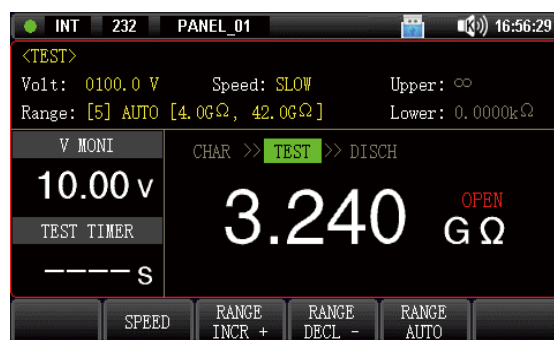
- Insulation resistance, leakage current double measurement and double display



- Contact check, OPEN alarm when the test loop is open



- Comparator sorting function

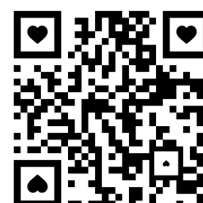


- Support multiple communication interfaces, two communication protocols

Key Specifications	UT5583	
Measurement parameters	Insulation resistance, leakage current	
Output voltage	program control 1V-1000V(DC): ≥10V, step 1V <10V, step 0.1V	
Voltage accuracy	≥10V, 1%±1V <10V, 10%±0.1V	
Measurement range	Resistance:10kΩ-10TΩ Current:100pA-250μA	
Measurement accuracy	1V≤voltage<10V	5% (<1M); 1% (1M-100M); 5% (100M-10G); 10%(>10G)
	10V≤voltage≤1000V	5%(<1M); 1% (1M-1G); 3% (1G-10G); 5%(10G-100G); 10%(100G-1T); 15%(>1T);
Test speed	Fast: 30ms/time, medium speed: 100ms/time, slow speed: 500ms/time	
Range mode	Auto, Locked, Nominal (select best range based on comparator setting)	
Max. charge current	25mA±5mA	
Show result	Voltage, current, resistance, sorting results, sound and light alarm	
Trigger mode	Internal, manual, external, bus	
Charge time	0-999s	
Test time	0-999s	
Discharge time	0-999s	
Comparator function	1 set of records, judging UFAIL, pass (PASS), and LFAIL	
Calibration function	Full range open circuit reset	
Interface	RS232C,USB HOST,LAN,RS485; HANDLER ,FOOT	

General Characteristics	
Power	AC 110V/220V 47-63Hz
Display mode	4.3-inch LCD screen
Product size(W×H×D)	215mm×88mm×382.3mm
Product net weight	3.32kg
Standard quantity per carton	1pcs
Standard carton size	515mm×365mm×220mm
Standard carton gross weight	4.5kg

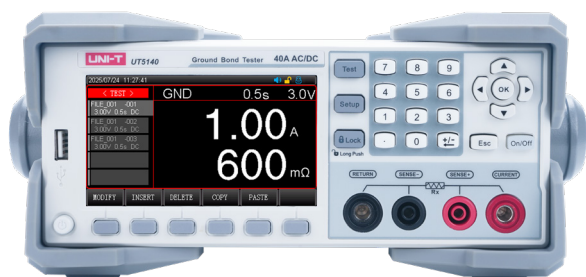
Ordering Information	
UT5583	1V-1000V,25mA,10kΩ-10TΩ Insulation Resistance Tester
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 Communication line
	Test line (red, green and black each 1)
	Spare fuse



UT5583 Series

UT5140 Series

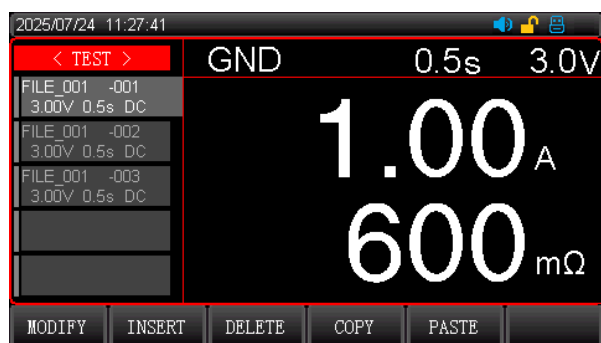
Ground Bond Testers



The UT5140 is a AC/DC ground bond tester featuring a 4.3-inch TFT-LCD display in a compact and lightweight design. With a maximum test current of 40 A, it delivers stable current output for both AC and DC ground testing and adopts a four-terminal configuration to ensure accurate and efficient measurements. Its adjustable open-circuit voltage enhances safety for both operators and the device under test. Equipped with versatile communication interfaces, the UT5140 is an ideal solution for automated systems and production line testing.

- Compliant with major safety standards, including CCC, IEC, EN, VDE, BS, UL, and JIS
- 4.3-inch TFT-LCD display
- Maximum test current up to 40 A
- Adopts four-wire (Kelvin) measurement to eliminate lead resistance and enhance measurement accuracy

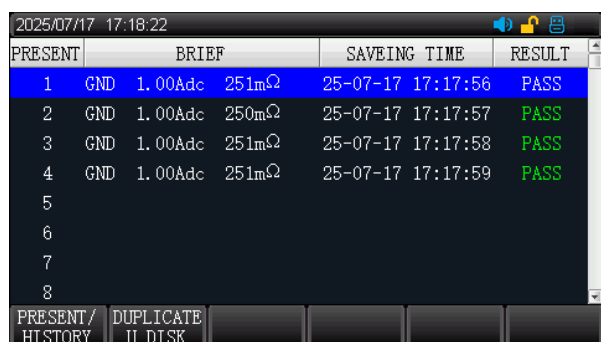
- Preset upper/lower limit with automatic pass/fail judgment and audible/visual alarms
- Built-in memory for storing up to 100 test files
- Easy file and data import/export via USB interface
- Support SCPI and MODBUS protocols



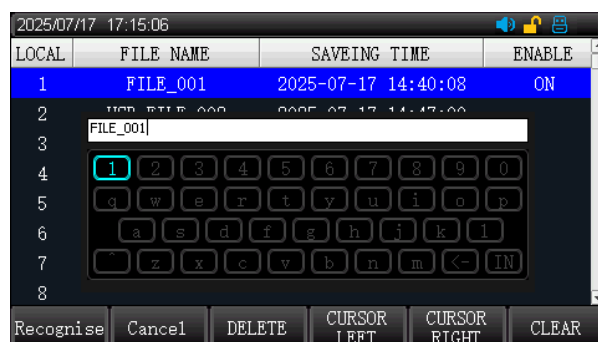
- 4.3-inch TFT-LCD display with an intuitive panel layout; test results and parameters are clearly visible.



- Preset upper/lower limit with automatic pass/fail judgment and audible/visual alarms.



- Multiple test steps can be set, and all test results can be displayed.

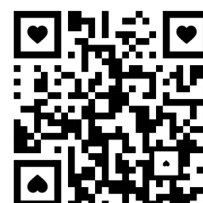


- Built-in memory for storing up to 100 test files, each containing up to 100 test steps.

Key Specifications		UT5140
Output voltage	Range	3.00 - 8.00 V AC/DC
	Resolution	0.01 V
	Accuracy	± (3% of setting + 3 counts)
Output frequency		50Hz/60Hz, or users could change to DC mode
Output current	Range	0-150 mΩ: 30.01-40.00 A
		0-200 mΩ: 10.01-30.00 A
		0-600 mΩ: 1.00-10.00 A
	Resolution	0.01 A
		Accuracy ± (3% of setting + 3 counts)
Maximum loading	Range	0 - 150 mΩ (30.01 to 40.00 A)
		0 - 200 mΩ (10.01 to 30.00 A)
		0 - 600 mΩ (1.00 to 10.00 A)
	Resolution	1 mΩ
		Accuracy ± (2% of setting + 2 counts)
Dwell time	Range	0, 0.5 to 999.9 s (0 = continuous)
Interface		USB Host, HANDLER, RS232/RS485, LAN

General Characteristics	
Power	100 to 120 VAC / 200 to 240 VAC 50 /60 Hz ± 5%
Display mode	4.3-inch LCD screen
Product size(W×H×D)	214 mm×88 mm×349 mm
Product net weight	5.3 kg
Standard quantity per carton	1pcs
Standard carton size	515mm×365mm×220mm
Standard carton gross weight	5.5kg

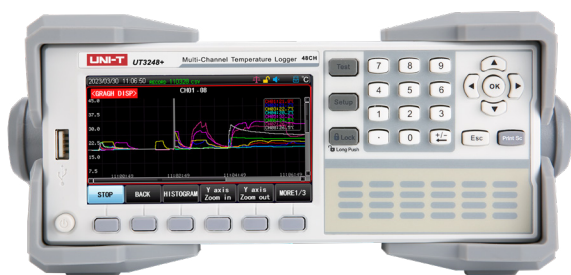
Ordering Information	
UT5140	8 V,40 A, 600 mΩ AC/DC Ground Bond Tester
Standard Accessories	Power cord conforming to the standard of the destination country
	RS232 Communication Cable
	Ground Impedance Output Wire (One red, one black)
	Interlock Terminal
	Spare fuse



UT5140 Series

UT3200+ Series

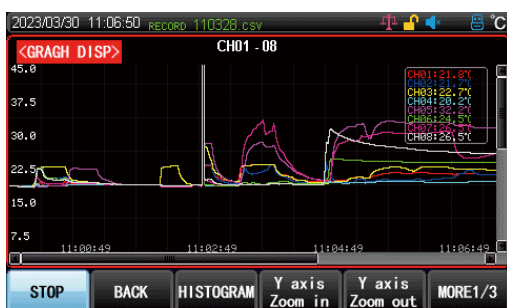
Multi-channel Temperature Loggers



UT3200+ series multi-channel temperature tester has 6 models of 8, 16, 24, 32, 40, 48 channels. 4.3-inch LCD color screen display, beautiful interface. Multiple channels of temperature data can be collected at the same time. The response speed is fast and the data is stable. It is suitable for multi-point temperature monitoring by manufacturers and quality inspection departments in industries such as home appliances, motors, electric heating appliances, thermostats, transformers, ovens, thermal protectors, power supplies, lighting, electric power, and LEDs.

- 4.3 inch LCD true color display
- Main parameter 6-digit display
- Supports K/N/E/J/T/R/S/B type thermocouples.
- Test range: -200° C-1800° C
- Temperature test resolution to 0.01 ° C
- Two scan speeds: fast, slow
- Automatic detection of broken thermocouples
- Intuitive data display, column chart and graph display mode

- Cold junction compensation
- Standard USB Host interface, 8G U disk, support U disk storage
- File management, the current settings will not be lost when power off
- Standard K-type thermocouple, 2m, can measure the temperature range of 0-200° C
- Temperature upper and lower limit overrun alarm, overrun reading color change
- Standard RS-232C, LAN interface, support SCPI and Modbus protocol



- Graph, histogram, and number display modes provide a better representation of temperature trends



- Comparator function. Color differentiation and alarm tone prompt



- Standard data acquisition software for data acquisition and analysis on the PC



- Configure RS232 and LAN ports, support SCPI and MODBUS dual protocols

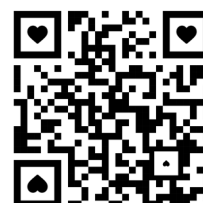
Key Specifications	UT3208+	UT3216+	UT3224+	UT3232+	UT3240+	UT3248+
Display mode	Direct numerical reading, curve chart, histogram					
Type	Thermocouple: J,K,T,E,S,N,B,R					
Measuring range	-200.0° C-1800.0° C (the range will change with different thermocouple model)					
Resolution	0.01° C					
Number of channel	8	16	24	32	40	48
Scanning speed	Fast, slow					
Sorting function	Build-in data sorting, can set upper/lower temperature limit alarm for each channel					
Alarm function	Upper/lower temperature limit alarm					
User calibration	User calibration of each channel is allowed					
Button functions	Lock -- keyboard lock, Print Sc -- screenshot					
System setup	Language: Chinese/English, key tone setting					
Storage	FAT: user can creat the file with the suffixal [.csv] and save the data of each channel into USB (not support mobile hard disk)					
Interface & protocol	RS232 and LAN communication interface, SCPI protocol					
Upper computer software	√					
Sensor Model	Test temperature range				accuracy(° C)	
T-type Thermocouple	-150° C - 0° C				±1.0° C	
	0° C - 400° C		±0.8° C		±0.8° C	±0.8° C
K-type Thermocouple	-100° C - 0° C		±1.2° C		±1.2° C	±1.2° C
	0° C - 1350° C		±0.8° C		±0.8° C	±0.8° C
J-type Thermocouple	-100° C - 0° C		±1.0° C		±1.0° C	±1.0° C
	0° C - 1200° C		±0.7° C		±0.7° C	±0.7° C
N-type Thermocouple	-100° C - 0° C		±1.5° C		±1.5° C	±1.5° C
	0° C - 1300° C		±0.9° C		±0.9° C	±0.9° C
E-type Thermocouple	-100° C - 0° C		±0.9° C		±0.9° C	±0.9° C
	0° C - 850° C		±0.7° C		±0.7° C	±0.7° C
S-type Thermocouple	-100° C - 0° C		±4.5° C		±4.5° C	±4.5° C
	100° C - 300° C		±3.0° C		±3.0° C	±3.0° C
	300° C - 1750° C		±2.2° C		±2.2° C	±2.2° C
R-type Thermocouple	0° C-100° C		±4.5° C		±4.5° C	±4.5° C
	100° C - 300° C		±3.0° C		±3.0° C	±3.0° C
	300° C - 1750° C		±2.2° C		±2.2° C	±2.2° C
B-type Thermocouple	600° C -800° C		±5.5° C		±5.5° C	±5.5° C
	800° C -1000° C		±3.8° C		±3.8° C	±3.8° C
	1000° C -1800° C		±2.5° C		±2.5° C	±2.5° C

General Characteristics

Power	AC 100-240V 50/60Hz
Display mode	4.3-inch LCD screen
Product size(W×H×D)	214mm×88.2mm×330.3mm
Product net weight	3.4kg
Standard quantity per carton	1pcs
Standard carton size	500X365mmX220MM
Standard carton gross weight	5kg

Ordering Information

UT3200+ Series	UT3248+: Multi-channel Temperature Logger(48 channels)
	UT3240+: Multi-channel Temperature Logger(40 channels)
	UT3232+: Multi-channel Temperature Logger(32 channels)
	UT3224+: Multi-channel Temperature Logger(24 channels)
	UT3216+: Multi-channel Temperature Logger(16 channels)
	UT3208+: Multi-channel Temperature Logger(8 channels)
Standard Accessories	Power cord conforming to the standard of the destination country
	USB interface cable x1
	8G U-disk x1
	8-channel Temperature Test Module: UT3208+/16+/24+/32+/40+/48+ is respectively equipped with 1/2/3/4/5/6 group.
	RS232 Communication line



UT3200+ Series



Headquarter

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