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UNI-T

THERMAL CAMERAS

2024



MILESTONES



2023

Branch in U.S. becomes operational.



2022

Branch in Germany becomes operational.



2021

Manufacturing base in Heyuan becomes operational.



2021

Uni-Trend becomes publicly traded on Shanghai Stock Exchange with stock code: 688628

2012



Uni-Trend moved its headquarters to Songshan Lake Industrial Park.



2007

Opened the second R&D center in Chengdu for instruments.



2003

Moved to Humen to start diversified product line development.

1988



Company founded in Shenzhen.



ABOUT US

Uni-Trend Technology (China) Co., Ltd. is one of the well-known test and measurement solutions provider in Asia. Uni-Trend is an ISO9001 and ISO14001 certified company, with T&M products meeting certifications including CE, ETL, UL, GS, etc.

With R&D centers in Chengdu and Dongguan, Uni-Trend is capable of manufacturing innovative, reliable, safe to use, and user friendly T&M products. Uni-Trend has established collaborations with partners in over 80 countries for product distribution and services. With products meeting industry standards, Uni-Trend is able to fully satisfy product demands from around the world.

By constantly improving product technology and quality standards, Uni-Trend is able to stay competitive in the ever-changing global market. At Uni-Trend, our solid foundation allows us to maintain and strengthen our corporate culture, bringing high-quality, secure, and cost-effective products to global users. We are always seeking new paths and cooperation opportunities with partners around the world. Uni-Trend seeks to become a global T&M solutions provider one day.



NEW PRODUCTS



UTi720T

Pocket-sized Thermal Camera

- 3.5'' TFT Touch (640×480)
- 256×192 pixels
- -20˚C~550˚C
- T-Mix fusion algorithm
- Smart meter
- NFC



UTi722M

Smartphone Thermal Camera

- Manual focus
- 256×192 pixels
- -20˚C~450˚C
- Multi-languages
- Plug & Play with "Thermal Mobile" APP
- Industrial & EST screening modes



UTi640Q

Handheld Thermal Camera

- Manual focus
- 4.3" IPS Touch (800×480)
- 640×512 pixels
- -30˚C ~ 650˚C
- T-Mix fusion algorithm
- AI recognition
- Video & voice recording



UTi720V/UTi730V

Handheld Thermal Camera

- 3.5" IPS Touch (640×480)
- T-Mix fusion algorithm
- Laser ranging
- With 5MP digital camera
- Multi-languages
- Video & voice recording



UTx210W

Thermal Monocular

- 0.23" OLED (640×400)
- 256×192 pixels
- Stadiametric ranging
- Video recording
- Multi-languages



UTx313M/318M/325M

Thermal Monocular

- Pocket size
- 0.39" OLED (1024×768)
- 400×300 pixels
- Stadiametric ranging
- Smart standby
- Multi-languages



UTx625M/UTx635M

Thermal Monocular

- Pocket size
- 0.39" OLED (1024×768)
- 640×512 pixels
- Stadiametric ranging
- Smart standby
- Multi-languages

CONTENTS

01 Handheld Thermal Cameras

Portable Series

UTi120P 02
UTi120T 04
NEW UTi720T 04

Heavy Duty Series

UTi260B 10
UTi712S 13

Enhanced Series

UTi720E/UTi730E 17
NEW UTi720V/UTi730V 20
UTi256G/UTi384G 24
UTi740H 28
NEW UTi640Q 31
UTi32 34

Pro Series

UTi640D/UTi1024D 37

02 Smartphone Thermal Cameras

NEW UTi722M 41
UTi120M/UTi120MS/UTi720M/UTi721M 43

03 Thermal Monoculars

NEW UTx313M/UTx318M/UTx325M 47
UTx313/UTx318/UTx325 50
NEW UTx210W 53
NEW UTx625M/UTx635M 55

04 Accessories

UT-Z002 58
UT-Z003 58
UT-Z005 58
UT-Z004 59
UT-M17 59

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Handheld Thermal Cameras

Handheld thermal cameras are designed for a variety of industrial applications. These ergonomically designed products can minimize fatigue when using for long periods of time. This series uses high-performance Vox infrared detectors, allowing wide temperature measurement range and accurate data, suitable for professional analysis work.



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Handheld Thermal Cameras Model Selection

Models	UTi120P	UTi120T	UTi720T	UTi712S	UTi85A	UTi165A+	UTi120B	UTi220B	UTi260B	UTi720A	UTi32	UTi720E	UTi730E	UTi720V	UTi730V	UTi740H	UTi256G	UTi384G	UTi640Q	UTi640D	UTi1024D
Product Photo																					
Technical Data																					
Display	2.4" TFT(320×240)	3.5" TFT Touch (320×240)	3.5" TFT Touch (640×480)	2.4" TFT (320×240)	2.8" TFT (320×240)	2.8" TFT (320×240)	2.8" TFT (320×240)	2.8" TFT (320×240)	2.8" TFT (320×240)	2.8" TFT (320×240)	2.4" IPS (320×240)	3.5" IPS (640×480)	3.5" IPS (640×480)	3.5" IPS Touch (640×480)	3.5" IPS Touch (640×480)	4.3" IPS (800×480)	3.5" IPS Touch (640×480)	3.5" IPS Touch (640×480)	4.3" IPS Touch (800×480)	5" IPS Touch (1280×720)	5.8" IPS Touch (1280×720)
IR resolution(Pixels)	120×90	120×90	256×192	120×90	80×60	160×120	120×90	200×150	256×192	256×192	32×32	256×192	320×240	256×192	320×240	384×288	256×192	384×288	640×512	640×480	1024×768
Pixel size	17μm	17μm	12μm	17μm	17μm	12μm	17μm	12μm	12μm	12μm	17μm	12μm	12μm	12μm	12μm	17μm	17μm	17μm	12μm	17μm	17μm
Frame rate	≤25Hz	≤25Hz	≤25Hz	≤25Hz	≤9Hz	≤9Hz	≤25Hz	≤9Hz	≤25Hz	≤25Hz	≤9Hz	≤25Hz	≤9Hz	≤25Hz	≤9Hz	≤25Hz	≤30Hz	≤30Hz	≤50Hz	≤50Hz	≤50Hz
Thermal sensitivity(NETD)	≤60mK	≤60mK	≤50mK	≤60mK	≤150mK	≤50mk	≤60mK	≤100mk	≤60mK	≤50mK	≤150mK	≤50mK	≤65mK	≤50mK	≤65mK	≤60mK	≤40mK	≤40mK	≤60mK	≤45mK	≤45mK
Focus	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Manual focus	Manual focus	Manual focus	Manual focus	Manual/Electric/Automatic	Manual/Electric/Automatic
Field of view (FOV)	50°(H) × 38°(V)	50°(H) × 38°(V)	56°(H) ×42°(V)	50°(H) ×38°(V)	51°(H) ×38°(V)	56°(H) ×42°(V)	50°(H) ×38°(V)	35°(H) ×26°(V)	56°(H) ×42°(V)	56°(H) ×42.2°(V)	30°(H) ×30°(V)	56°(H) ×42.2°(V)	56°(H) ×42°(V)	56°(H) ×42°(V)	56°(H) ×42°(V)	28°(H) ×21°(V)	28°(H) ×20°(V)	42°(H) ×30°(V)	32.9°(H) × 26.6°(V)	24.5°(H) ×18.5°(V)	31°(H) ×23°(V)
Temperature measurement range	-20°C~400°C	-20°C~400°C	-20°C~550°C	-20°C~400°C	-10°C~400°C	-10°C~400°C	-20°C~400°C	-10°C~400°C	-20°C~550°C	-20°C~400°C	-20°C~1000°C	-20°C~550°C	-40°C~400°C	-20°C~550°C	-40°C~400°C	-30°C~650°C	-20°C~550°C	-20°C~550°C	-30°C~650°C	-40°C~650°C (Standard Lens) 650°C~2000°C(Optional Lens)	-40°C~650°C (Standard Lens) 650°C~2000°C(Optional Lens)
Accuracy	±2°C or ±2%	≥0°C , ±2°C or ±2% <0°C , ±5°C or ±5%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%	±2°C or ±2%
Functions																					
Image modes	Thermal	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion (T-Mix), PIP	Thermal	Thermal	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal,Visual image,Fusion,PIP	Thermal	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion,PIP	Thermal, Visual image, Fusion,PIP	Thermal, Visual image, Fusion (T-Mix), PIP	Thermal, Visual image, Fusion (T-Mix), PIP	Thermal, Visual image, Fusion (T-Mix), PIP	Thermal, Visual image, Fusion,PIP	Thermal, Visual image, Fusion,PIP	Thermal, Visual image, Fusion (T-Mix), PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP
On screen analyzer	–	1 Point/1 Rectangle	1 Point/1 Rectangle	–	–	3 Points	–	3 Points	3 Points	3 Points	–	5 Points/1 Line/ 3 Rectangles/ 3 Circles	5 Points/1 Line/ 3 Rectangles/ 3 Circles	5 Points/1 Line/ 3 Rectangles/ 3 Circles	5 Points/1 Line/ 3 Rectangles/ 3 Circles	5 Points/1 Line/ 5 Rectangles/ 5 Circles	3 Points/3 Lines/ 3 Rectangles/ 3 Circles	5 Points/5 Lines/ 5 Rectangles/ 5 Circles	10 Points/10 Lines/ 10 Rectangles/ 10 Circles	10 Points/5 Lines/ 10 Rectangles/ 10 Circles	10 Points/5 Lines/ 10 Rectangles/ 10 Circles
Isotherm	–	Auto/Manual	Auto/Manual/ Above/Below/ Section/Ratio	–	–	–	–	–	–	–	–	Auto/Ratio/Below/ Above/Section/ Manual	Auto/Ratio/Below/ Above/Section/ Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual/ Above/Below/ Section	Auto/Manual/ Above/Below/ Section	Auto/Manual	Above, Below	Above, Below
Hi/Lo temperature alarm	LCD animation	LCD animation & LED flashlight	LCD animation & LED flashlight	LCD animation, LED flashlight, Buzzer	LCD animation, LED flashlight, Buzzer	LCD animation & LED flashlight	LCD animation, LED flashlight, Buzzer	LCD animation, LED flashlight, Buzzer	LCD animation & LED flashlight	LCD animation & LED flashlight	LCD animation	LCD animation & LED flashlight	LCD animation & LED flashlight	LCD animation & LED flashlight	LCD animation & LED flashlight	LCD animation	LCD animation	LCD animation	LCD animation & Buzzer	LCD animation, Buzzer, LED flashlight	LCD animation, Buzzer, LED flashlight
Hi/Lo temperature tracking	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
Digital camera resolution(Pixels)	–	640x480	2MP	–	–	640x480	640x480	640x480	640x480	–	300,000	2MP	2MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP
Digital zoom	–	1.0~8x continuous	1.0~8x continuous	–	–	–	–	–	–	–	–	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x, 6x	1.1~10x continuous	1.1~10x continuous
Video/Voice recording	–	–	√	–	–	–	–	–	–	–	–	–	–	√	√	–	–/√	√	√	√	√
AI recognition	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	√	–	–
Wi-Fi/Wi-Fi live streaming	–	√/–	√	–	–	–	–	–	–	–	–	√/–	√/–	√	√	√/–	√	√	√	√/–	√/–
Bluetooth/GPS	–	–	√/–	–	–	–	–	–	–	–	–	–	–	–	–	√/–	√/–	√/–	√/–	√	√
NFC	–	–	√	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LED lighting	–	√	√	√	√	√	√	√	√	√	–	√	√	√	√	–	√	√	–	√	√
Laser pointer/ Laser distance measurement	–	–	–	√/–	–	–	–	–	–	–	–	–	–	√	√	–	–	–	–	√/–	√/–
Analysis software	PC	PC+APP	PC+APP	PC	PC	PC	PC	PC	PC	PC	–	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC	PC
General Characteristics																					
Battery	1350mAh rechargeable Li-ion battery	1800mAh rechargeable Li-ion battery	1800mAh rechargeable Li-ion battery	2600mAh rechargeable Li-ion battery	5000mAh rechargeable Li-ion battery	5000mAh rechargeable Li-ion battery	5000mAh rechargeable Li-ion battery	5000mAh rechargeable Li-ion battery	5000mAh rechargeable Li-ion battery	5000mAh rechargeable Li-ion battery	2600mAh rechargeable Li-ion battery	5200mAh detachable Li-ion battery pack (UT-M17)	5200mAh detachable Li-ion battery pack (UT-M17)	5200mAh detachable Li-ion battery pack (UT-M17)	5200mAh detachable Li-ion battery pack (UT-M17)	5200mAh detachable Li-ion battery pack (UT-M17)	5200mAh detachable Li-ion battery pack (UT-M17)	5200mAh detachable Li-ion battery pack (UT-M17)	5200mAh detachable Li-ion battery pack (UT-M17)	3400mAh detachable Li-ion battery pack	3400mAh detachable Li-ion battery pack
Operating time	≥3.5 hours	≥2 hours (with Wi-Fi off)	≥2.2 hours (with Wi-Fi off)	≥8 hours	≥6 hours	≥7 hours	≥6 hours	≥6 hours	≥6 hours	≥7 hours	≥7 hours	≥3 hours (with Wi-Fi off)	≥3 hours (with Wi-Fi off)	≥4 hours (with Wi-Fi off)	≥4 hours (with Wi-Fi off)	Approx. 5 hours (with Wi-Fi off)	Approx. 5 hours (with Wi-Fi off)	Approx. 5 hours (with Wi-Fi off)	Approx. 5 hours (with Wi-Fi off)	≥3 hours	≥2 hours
USB	Micro USB	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C & HDMI	Type-C & HDMI
Storage	32GB Micro SD card	4GB Internal	12GB Internal	32GB Micro SD card	32GB Micro SD card	32GB Micro SD card	32GB Micro SD card	32GB Micro SD card	32GB Micro SD card	32GB Micro SD card	16GB Micro SD card	32GB Micro SD card	32GB Micro SD card	32GB Micro SD card	32GB Micro SD card	32GB Micro SD card	8GB Internal & 32GB External	8GB Internal & 32GB External	32GB Micro SD card	16GB Internal & 16GB Micro SD card	16GB Internal & 16GB Micro SD card
Image/Video storage format	BMP	JPEG	JPEG/.avi	BMP	BMP	BMP	BMP	BMP	BMP	BMP	BMP	JPEG	JPEG	JPEG/AVI	JPEG/AVI	BMP	JPEG	JPEG/MP4 & .irgd	JPEG/MP4	JPEG/dat	JPEG/dat
Protection	1m	IP54 & 1m	IP54 & 1m	IP54 & 2m	IP65 & 2m	IP65 & 2m	IP65 & 2m	IP65 & 2m	IP65 & 2m	IP65 & 2m	–	IP54 & 2m	IP54 & 2m	IP54 & 2m	IP54 & 2m	IP54 & 2m	IP54 & 2m	IP54 & 2m	IP54 & 2m	IP54	IP54
Certificates	CE, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	–	–
Languages	ZH, EN	ZH, EN	ZH, EN	EN, FR, DE, ES, RU	ZH, EN, FR, DE, IT, ES_US, ES_EU, PT_EU	ZH, EN	ZH, EN	ZH, EN	ZH, EN	EN, FR, DE, IT, ES, SV	ZH, EN	EN, FR, DE, ES, RU	EN, FR, DE, ES, RU	EN, FR, DE, IT, ES, SV, PL, CZ	EN, FR, DE, IT, ES, SV, PL, CZ	EN, FR, DE, IT, ES, SV	EN, FR, DE, IT, ES, SV, PL, CZ, RU, PT, AR, JA, KO	EN, FR, DE, IT, ES, SV, PL, CZ, RU, PT, AR, JA, KO	EN, FR, DE, IT, ES, SV, PL, CZ	ZH	ZH
Weight	125g	213g	213g	310g	490g	490g	490g	490g	490g	490g	303g	654g	654g	654g	654g	806g	880g	880g	846g	<1.7kg	<1.7kg
Dimension	76x76x24mm	133x85x24mm	133x85x24mm	197x72x60mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	205x124x65mm	260x97x99mm	260x97x99mm	260x97x99mm	260x97x99mm	266x126x136mm	261x104x97mm	261x104x97mm	264x127x136mm	262.5x150.5x91.3mm	237x169.6x89.4mm

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Portable Series

Handheld Thermal Cameras



UTi120P

UTi120T/UTi720T

UNI-T Portable series thermal cameras are compact and pocket-sized in design, very convenient for users to carry. They are perfect tools for building & HVAC inspections, facilities maintenance, electrical repair and other troubleshooting applications.

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UTi120P

Pocket-sized Thermal Camera



-20°C~400°C

Easy to carry

120 × 90
IR resolution

Li-ion battery

PC analysis software

IP54
Waterproof and dustproof

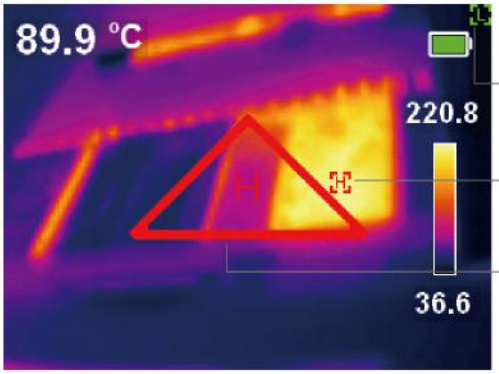
Compact & Pocket-sized

Users can put the thermal camera into pocket, very convenient to carry.





Auto Tracking and Alarm for High/Low Temperature



Low 36.6°C

High 220.8°C

Auto alarm

PC Software



- Photo viewing
- Photo analysis
- Report generation

Specifications

Model No.	UTi120P	
Product Photo		
Technical Data		
Display	2.4'' TFT (320×240)	
IR resolution(Pixels)	120×90	
Pixel size	17μm	
Frame rate	≤25Hz	
Thermal sensitivity(NETD)	≤60mK	
Focus	Focus Free	
Field of view(FOV)	50°(H) × 38°(V)	
Temperature measurement range	-20°C~400°C	
Accuracy	±2°C or ±2%	
Functions		
Image modes	Thermal	
Hi/Lo temperature alarm	LCD animation	
Hi/Lo temperature tracking	√	
Analysis software	PC	
General Characteristics		
Battery	1350mAh rechargeable Li-ion battery	
Operating time	≥3.5 hours	
USB	Micro USB	
Storage	32GB Micro SD card	
Image storage format	BMP	
Protection	1m	
Certificates	CE, RoHS	
Languages	ZH, EN	
Weight	125g	
Dimension	76mm×76mm×24mm	
Packing Details		
Standard accessories	Hand Strap, Cloth Bag, English Manual, Micro USB cable, Micro SD card	
Standard individual packing	Gift box	
Standard Qty per carton	5pcs	
Standard carton size	455mm×145mm×150mm	
Standard carton G.W.	2.2kg	

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UTi120T/UTi720T

Pocket-sized Thermal Camera



Wi-Fi

Easy to carry

Touch IPS screen

NFC (UTi720T)

PC analysis software

Waterproof and dustproof

- **IR resolution:** 120×90 (UTi120T)
  256×192 (UTi720T)
- **Temperature measurement range:**
  -20°C~400°C (UTi120T)
  -20°C~550°C (UTi720T)
- **Digital camera resolution:**
  640×480 (UTi120T)
  2MP (UTi720T)
- **Image modes:**
  Thermal, Visual image, Fusion, PIP (UTi120T)
  Thermal, Visual image, Fusion (T-Mix), PIP (UTi720T)
- **Thermal sensitivity(NETD):**
  ≤60mK (UTi120T)
  ≤50mK (UTi720T)

3.5" Large Touch Screen

Easy to operate.



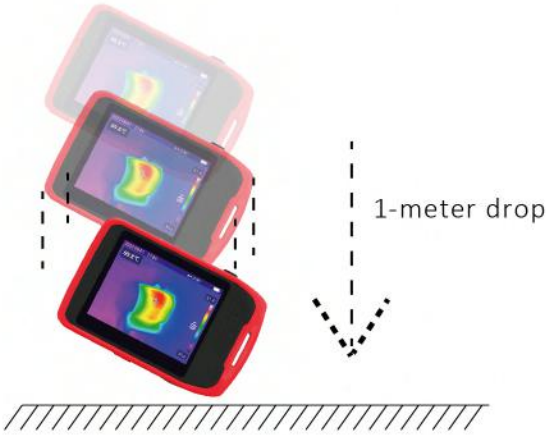
Compact & Pocket-sized

Pocket-sized, lightweight and portable.



1m Drop Proof

Can stand 1-meter drop and stands up to IP54 waterproof & dustproof.

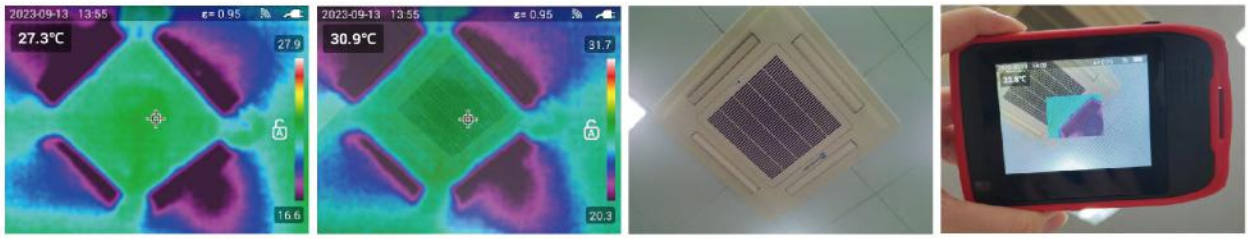


NFC(UTi720T)

Place NFC sensing area of your phone close to UTi720T's NFC logo to recognize & connect Wi-Fi automatically, save the operating time of manual connection.



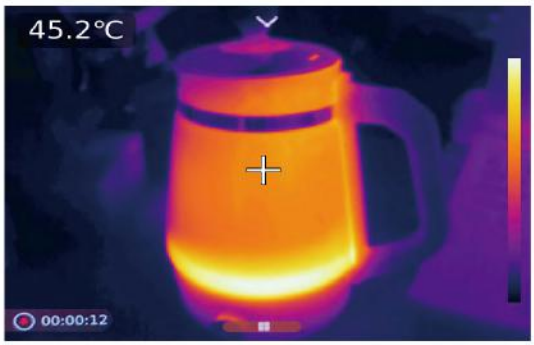
4 Image Modes



Thermal | Fusion | Visual image | Picture in picture

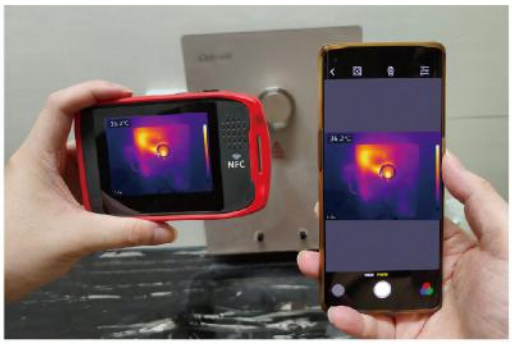
Video Recording

Long-press camera button to start video recording.



Wi-Fi Live Streaming(UTi720T)

Real-time images projection



Smart Meter

UTi720T can be combined with UT333BT through Bluetooth connection. Thermal images will be simultaneously captured by UTi720T when UT333BT measuring the temperature & humidity of the target, to better master the measuring status.



+



Note: Smart Meter function will be compatible with other multimeters products with Bluetooth function gradually.

PC Software/APP



Wi-Fi

UNI-T Mobile App

PC software

Scan QR code for full information of "iThermal"



Photo viewing only



- Photo viewing
- Photo analysis
- Report generation

Applications



PCBA inspection



Power distribution cabinet inspection



Motor inspection



Mechanical equipment inspection

Specifications

Model No.	UTi120T	UTi720T
Product Photo		
Technical Data		
Display	3.5'' TFT Touch (320×240)	3.5'' TFT Touch (640×480)
IR resolution(Pixels)	120×90	256×192
Pixel size	17μm	12μm
Frame rate	≤25Hz	≤25Hz
Thermal sensitivity(NETD)	≤60mK	≤50mK
Focus	Focus Free	Focus Free
Field of view(FOV)	50°(H) × 38°(V)	56°(H) × 42°(V)
Temperature measurement range	-20°C~400°C	-20°C~550°C
Accuracy	≥0°C, ±2°C or ±2% <0°C, ±5°C or ±5%	±2°C or ±2%
Functions		
Image modes	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion (T-Mix), PIP
On screen analyzer	1 Point/1 Rectangle	1 Point/1 Rectangle
Isotherm	Auto/Manual	Auto/Manual/Above/Below/Section/Ratio
Hi/Lo temperature alarm	LCD animation & LED flashlight	LCD animation & LED flashlight
Hi/Lo temperature tracking	√	√
Digital camera resolution	640×480	2MP
Digital zoom	1.0~8× continuous	1.0~8× continuous
Video recording	—	√
Wi-Fi/Wi-Fi live streaming	√/—	√
Bluetooth/GPS	—	√
NFC	—	√
LED lighting	√	√
Analysis software	PC+APP	PC+APP
General Characteristics		
Battery	1800mAh rechargeable Li-ion battery	1800mAh rechargeable Li-ion battery
Operating time	≥2 hours (with Wi-Fi off)	≥2.2 hours (with Wi-Fi off)
USB	Type-C	Type-C
Storage	4GB Internal	12GB Internal
Image/Video storage format	JPEG	JPEG / .avi
Protection	IP54 & 1m	
Certificates	CE, FCC, RoHS	
Languages	ZH, EN	
Weight	213g	
Dimension	133mm×85mm×24mm	
Packing Details		
Standard accessories	Hand Strap, Cloth Bag, English Manual, Type-C USB cable, Documents Download Operation Guide	
Standard individual packing	Gift box	
Standard Qty per carton	5pcs	
Standard carton size	370mm×250mm×170mm	
Standard carton G.W.	3.6kg	

Heavy Duty Series

Handheld Thermal Cameras

UNI-T heavy duty series thermal cameras are rugged and ergonomically designed. They have powerful features and very user friendly with great performance and attractive price, they are affordable professional tools for building & HVAC, electrical, mechanical, facilities maintenance and other applications.



Specifications

Model No.	UTi712S	UTi85A	UTi165A+	UTi120B	UTi220B	UTi260B	UTi720A
Product Photo							
Technical Data							
Display	2.4'' TFT LCD (320×240)	2.8'' TFT (320×240)					
IR resolution(Pixels)	120×90	80×60	160×120	120×90	200×150	256×192	256×192
Pixel size	17μm	17μm	12μm	17μm	12μm	12μm	12μm
Frame rate	≤25Hz	≤9Hz	≤9Hz	≤25Hz	≤9Hz	≤25Hz	≤25Hz
Thermal sensitivity(NETD)	≤60mK	≤150mK	≤50mk	≤60mK	≤100mk	≤60mK	≤50mK
Focus	Focus Free						
Field of view(FOV)	50°(H) × 38°(V)	51°(H) × 38°(V)	56°(H) × 42°(V)	50°(H) × 38°(V)	35°(H) × 26°(V)	56°(H) × 42°(V)	56°(H) × 42.2°(V)
Temperature measurement range	-20°C~400°C	-10°C~400°C	-10°C~400°C	-20°C~400°C	-10°C~400°C	-20°C~550°C	-20°C~400°C
Accuracy	±2°C or ±2%						
Functions							
Image modes	Thermal	Thermal	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion, PIP	Thermal
On screen analyzer	—	—	3 Points	—	3 Points	3 Points	3 Points
Hi/Lo temperature alarm	LCD animation, LED flashlight, Buzzer	LCD animation, LED flashlight, Buzzer	LCD animation & LED flashlight	LCD animation, LED flashlight, Buzzer	LCD animation, LED flashlight, Buzzer	LCD animation & LED flashlight	LCD animation & LED flashlight
Hi/Lo temperature tracking	√						
Digital camera resolution	—	—	640×480	640×480	640×480	640×480	—
Laser pointer	√	—					
LED lighting	√						
Analysis software	PC						
General Characteristics							
Battery	2600mAh rechargeable Li-ion battery	5000mAh rechargeable Li-ion battery					
Operating time	≥8 hours	≥6 hours	≥7 hours	≥6 hours	≥6 hours	≥6 hours	≥7 hours
USB	Type-C						
Storage	32GB Micro SD card						
Image storage format	BMP						
Protection	IP54 & 2m	IP65 & 2m					
Certificates	CE, UKCA, FCC, RoHS	CE, FCC, RoHS					
Languages	EN, FR, DE, ES, RU	ZH, EN, FR, DE, IT, ES_US, ES_EU, PT_EU	ZH, EN	ZH, EN	ZH, EN	ZH, EN	EN, FR, DE, IT, ES, SV
Weight	310g	490g					
Dimension	197mm×72mm×60mm	236mm×75.5mm×86mm					
Packing Details							
Standard accessories	Type-C USB cable, Micro SD card, English Manual, Documents Download Operation Guide (Common) Adapter (UTi85A/UTi165A+/UTi220B/UTi260B only) Adapter Plug (UTi85A only) Hand Strap (UTi712S only)						
Standard individual packing	Gift box						
Standard Qty per carton	10pcs, 5pcs (UTi712S only)						
Standard carton size	500mm×315mm×295mm, 485mm×260mm×170mm (UTi712S only)						
Standard carton G.W.	10.1kg, 3.2kg (UTi712S only)						



UTi260B

Heavy Duty Thermal Camera

-20°C~550°C

256 × 192 IR resolution

25Hz Frame rate

Digital camera

On screen analyzer

PC analysis software

IP65 Waterproof and dustproof

2m drop proof

Temperature Measurement Range: -20°C~550°C





Sturdy and Durable



IP65 rating



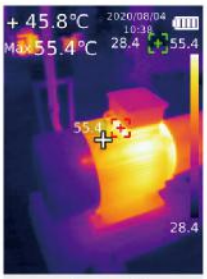
2m drop proof

PC Software

- Photo Viewing
- Secondary Analysis
- Report Generation
- Real-time Image Projection
- Temperature Alarm
- Auto Log Generation



4 Image Modes



Thermal



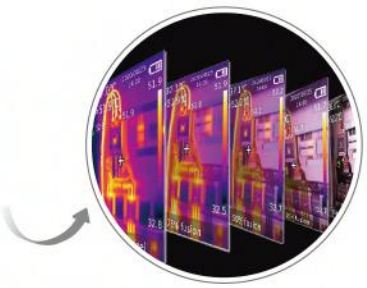
Visual image



Picture in picture



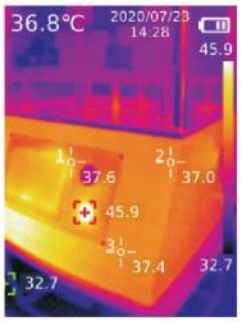
Fusion

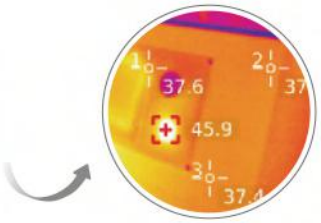


100% IR image, 75% fusion, 50% fusion, 25% fusion, 100% visual image

On Screen Analyzer

3 additional analysis points can be added for real-time monitoring the temperature changes of the areas you are interested on.





Applications


Power distribution cabinet inspection


Mechanical equipment inspection


Automobile inspection


Heating equipment inspection

Specifications

Model No.	UTi260B
Product Photo	
Technical Data	
Display	2.8'' TFT (320×240)
IR resolution(Pixels)	256×192
Pixel size	12μm
Frame rate	≤25Hz
Thermal sensitivity(NETD)	≤60mK
Focus	Focus Free
Field of view(FOV)	56°(H) × 42°(V)
Temperature measurement range	-20°C~550°C
Accuracy	±2°C or ±2%
Functions	
Image modes	Thermal, Visual image, Fusion, PIP
On screen analyzer	3 Points
Hi/Lo temperature alarm	LCD animation & LED flashlight
Hi/Lo temperature tracking	√
Digital camera resolution	640×480
LED lighting	√
Analysis software	PC
General Characteristics	
Battery	5000mAh rechargeable Li-ion battery
Operating time	≥6 hours
USB	Type-C
Storage	32GB Micro SD card
Image storage format	BMP
Protection	IP65 & 2m
Certificates	CE, FCC, RoHS
Languages	ZH, EN
Weight	490g
Dimension	236mm×75.5mm×86mm
Packing Details	
Standard accessories	Type-C USB cable, Micro SD card, English Manual, Adapter , Documents Download Operation Guide
Standard individual packing	Gift box
Standard Qty per carton	10pcs
Standard carton size	500mm×315mm×295mm
Standard carton G.W.	10.1kg



UTi712S

Cost Effective Thermal Camera



Multi-languages

English
French
German
Spanish
Russian

Laser Pointer/LED Flashlight



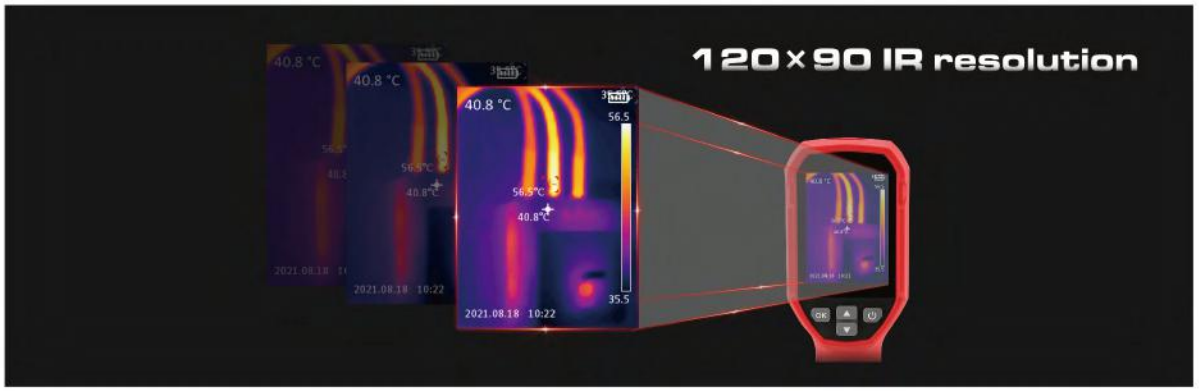
USB Type-C Interface



Long Operating Time

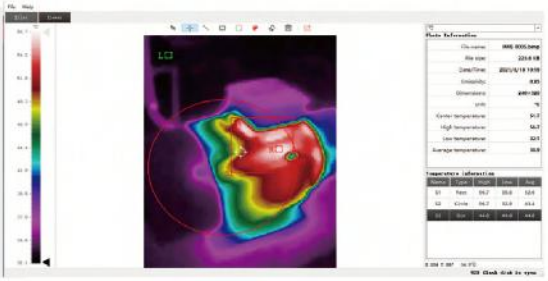
Supports to continuous operating more than 8 hours.



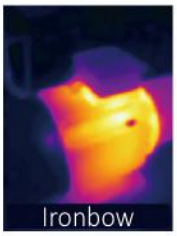


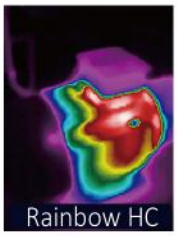
PC Software

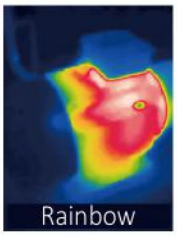
- Photo Viewing
- Secondary Analysis
- Report Generation

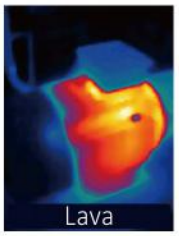


6 Color Palettes













Applications



HVAC inspection



Power distribution cabinet inspection



Motor inspection



Building inspection

Specifications

Model No.	UTi712S
Product Photo	
Technical Data	
Display	2.4'' TFT (320×240)
IR resolution(Pixels)	120×90
Pixel size	17μm
Frame rate	≤25Hz
Thermal sensitivity(NETD)	≤60mK
Focus	Focus Free
Field of view(FOV)	50°(H) × 38°(V)
Temperature measurement range	-20°C~400°C
Accuracy	±2°C or ±2%
Functions	
Image modes	Thermal
Hi/Lo temperature alarm	LCD animation, LED flashlight, Buzzer
Hi/Lo temperature tracking	√
Laser pointer	√
LED lighting	√
Analysis software	PC
General Characteristics	
Battery	2600mAh rechargeable Li-ion battery
Operating time	≥8 hours
USB	Type-C
Storage	32GB Micro SD card
Image storage format	BMP
Protection	IP54 & 2m
Certificates	CE,UKCA,FCC,RoHS
Languages	EN, FR, DE, ES, RU
Weight	310g
Dimension	197mm×72mm×60mm
Packing Details	
Standard accessories	Type-C USB cable, Micro SD card, Hand Strap, English Manual, Documents Download Operation Guide
Standard individual packing	Gift box
Standard Qty per carton	5pcs
Standard carton size	485mm×260mm×170mm
Standard carton G.W.	3.2kg



Enhanced Series

Handheld Thermal Cameras

Enhanced series products inherit sturdy & durable design, with an enlarged screen size providing a better visual experience. To extend the working time, a detachable battery is used. In addition, the built-in functions have also been expanded, such as on screen analyzer, isotherm, digital zoom, etc. With Wi-Fi connection, this series products support to connect “Thermal Link” APP to achieve functions such as real-time images projection, secondary analysis, and report generation.



Wi-Fi | IPS screen | Digital camera | On screen analyzer | Flexible isotherm | Digital zoom | Detachable battery

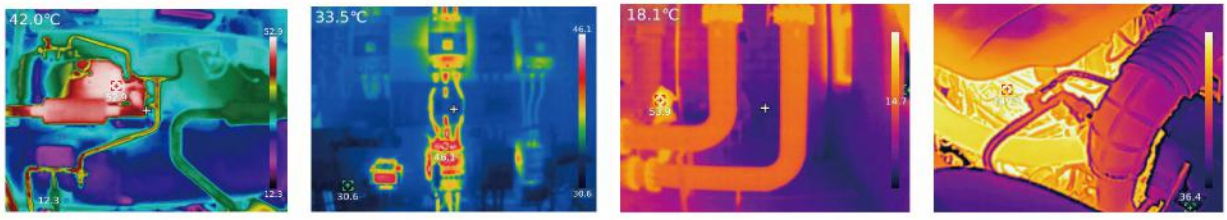
UTi720E/UTi730E

Handheld Thermal Camera



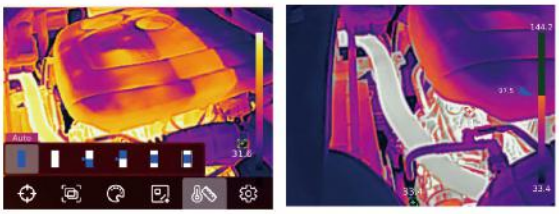
- **IR resolution:** 256x192 (UTi720E)
  320x240 (UTi730E)
- **Temperature measurement range:**
  -20°C~550°C (UTi720E)
  -40°C~400°C (UTi730E)
- **2MP** digital camera resolution
- **Digital zoom:** 2x, 4x
- **Image modes:** Thermal, Visual image, Fusion, PIP
- **On screen analyzer:** 5 Points/1 Line/ 3 Rectangles/3 Circles
- **7** color palettes
- Isotherm (Auto/Ratio/Below/Above/ Section/Manual)
- PC software
- **5200mAh** detachable battery pack
- **2m** drop proof

High IR Resolution Provides High-definition Color Clarity



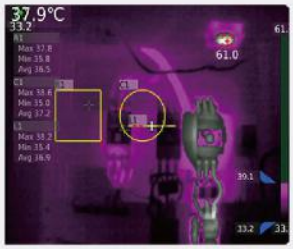
Flexible Isotherm

Isotherm is an effective way of alerting temperature. Users can quickly observe temperature of interest through setting the isotherm range. Including 6 Isotherm modes: Auto, Ratio, Below, Above, Section, Manual.



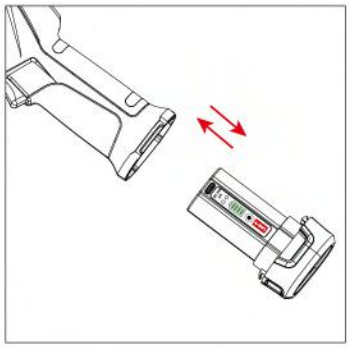
On Screen Analyzer



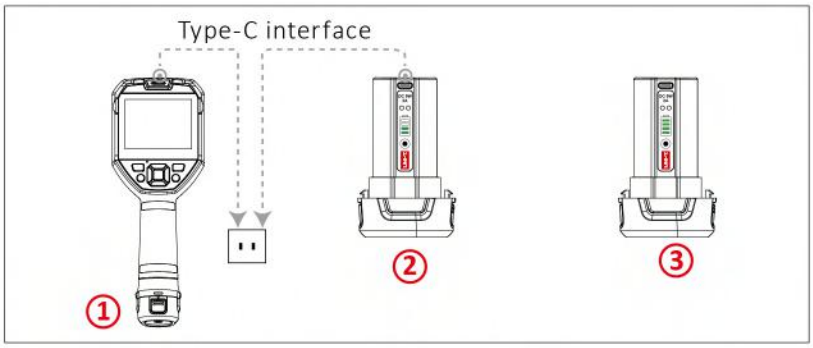


- 5 Points
- 1 Line
- 3 Rectangles
- 3 Circles

5200mAh Detachable Li-ion Battery Pack (UT-M17)



Snap-on design



1. Device charging
2. Charging the battery pack separately
3. Battery indicator light

Applications



Electricity facilities inspection



Solar panel inspection



Mechanical equipment inspection



Automotive maintenance

Specifications

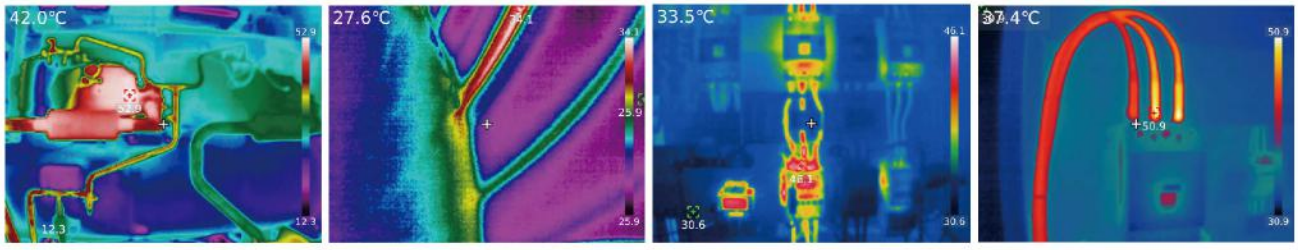
Model No.	UTi720E	UTi730E
Product Photo		
Technical Data		
Display	3.5" IPS (640×480)	
IR resolution(Pixels)	256×192	320×240
Pixel size	12μm	
Frame rate	≤25Hz	≤9Hz
Thermal sensitivity(NETD)	≤50mK	≤65mK
Focus	Focus Free	
Field of view(FOV)	56°(H) × 42.2°(V)	56°(H) × 42°(V)
Temperature measurement range	-20°C~550°C	-40°C~400°C
Accuracy	±2°C or ±2%	
Functions		
Image modes	Thermal, Visual image, Fusion, PIP	
On screen analyzer	5 Points/1 Line/3 Rectangles/3 Circles	
Isotherm	Auto/Ratio/Below/Above/Section/Manual	
Hi/Lo temperature alarm	LCD animation & LED flashlight	
Hi/Lo temperature tracking	√	
Digital camera resolution	2MP	
Digital zoom	2x, 4x	
Wi-Fi	√	
LED lighting	√	
Analysis software	PC+APP	
General Characteristics		
Battery	5200mAh detachable Li-ion battery pack (UT-M17)	
Operating time	≥3 hours (with Wi-Fi off)	
USB	Type-C	
Storage	32GB Micro SD card	
Image storage format	JPEG	
Protection	IP54 & 2m	
Certificates	CE, UKCA, FCC, RoHS	
Languages	EN, FR, DE, ES, RU	
Weight	654g	
Dimension	260mm×97mm×99mm	
Packing Details		
Standard accessories	Type-C USB cable, Micro SD card, Li-ion battery pack, English Manual, Documents Download Operation Guide	
Standard individual packing	Toolbox & Gift box	
Standard Qty per carton	1pcs	
Standard carton size	400mm×185mm×345mm	
Standard carton G.W.	3.7kg	

UTi720V/730V

Professional Enhanced Thermal Camera



- **IR resolution:** 256x192 (UTi720V)
  320x240 (UTi730V)
- **Temperature measurement range:**
  -20°C~550°C (UTi720V)
  -40°C~400°C (UTi730V)
- **5MP** digital camera resolution
- **Digital zoom:** 2x, 4x
- **Image modes:** Thermal, Visual image, Fusion(T-Mix), PIP
- **3.5"** IPS Touch screen (640×480)
- **On screen analyzer:** 5 Points/1 Line/ 3 Rectangles/3 Circles
- **7** color palettes
- Isotherm (Auto/Manual)
- PC software
- **5200mAh** detachable battery pack
- **2m** drop proof



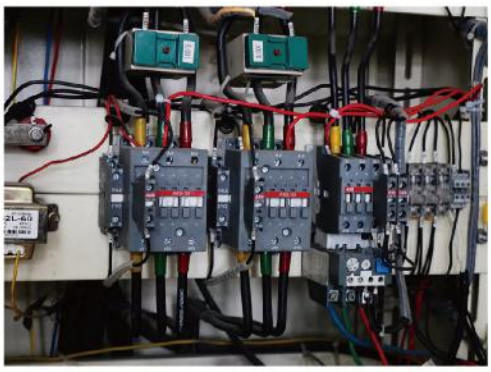
3.5" IPS Touch Screen

Touch screen makes operating work more flexible.



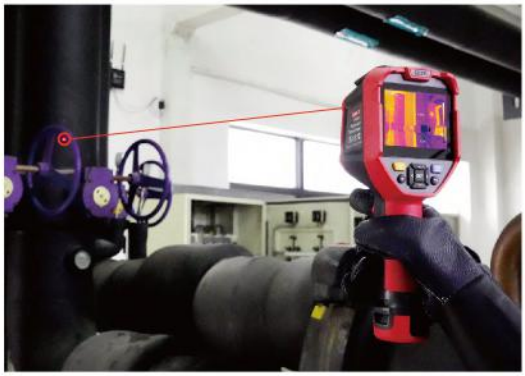
Digital Camera Resolution: 5MP

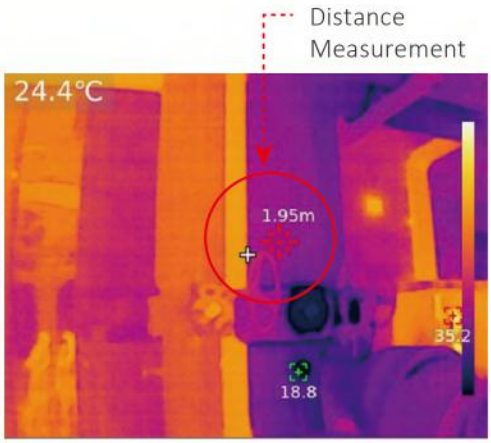
Provides a better visual experience.



Laser Ranging

Measurement distance is up to 30m





T-Mix Fusion Algorithm

Highlight the outline & edge of the objects. Location of thermal image and visual image will be registered automatically.



Without T-Mix



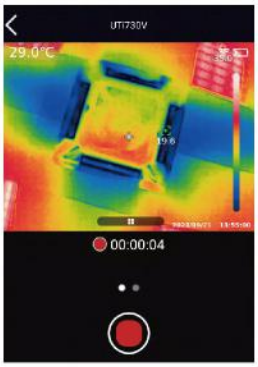
With T-Mix

Video Recording

Recording the temperature data continuously for trend analysis of the temperature changes.



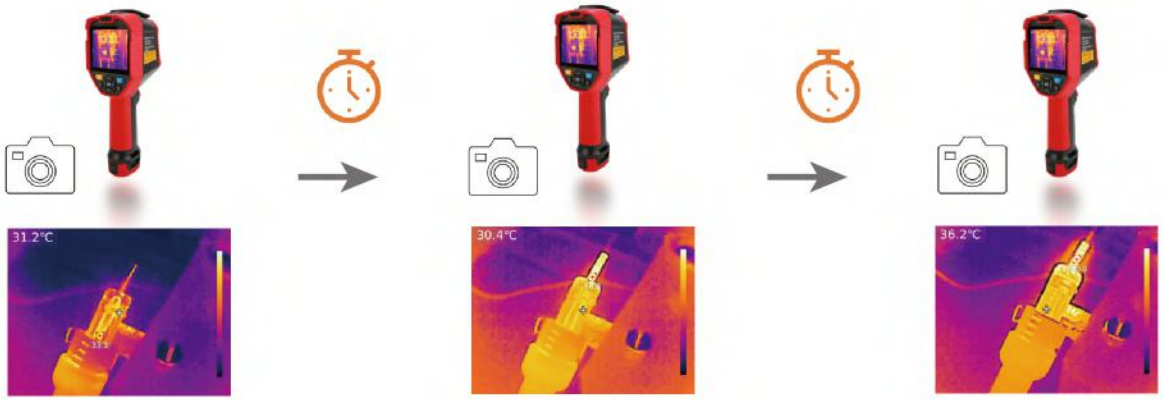
Device interface



App interface

Automagical Routine Inspection

Users can customize the time of routine inspection, taking photos & recording the temperature data automatically to monitor the temperature change of the target.



Reverse Operation

Reversely operate the device through mobile App or PC software. Measurement operation is within safe range to avoid any danger caused by high voltage and high temperature or other risks.



PC software



Mobile App

Specifications

Model No.	UTi720V	UTi730V
Product Photo		
Technical Data		
Display	3.5" IPS Touch (640×480)	
IR resolution(Pixels)	256×192	320×240
Pixel size	12μm	
Frame rate	≤25Hz	≤9Hz
Thermal sensitivity(NETD)	≤50mK	≤65mK
Focus	Focus Free	
Field of view(FOV)	56°(H) × 42.2°(V)	56°(H) × 42°(V)
Temperature measurement range	-20°C~550°C	-40°C~400°C
Accuracy	±2°C or ±2%	
Functions		
Image modes	Thermal, Visual image, Fusion (T-Mix), PIP	
On screen analyzer	5 Points/1 Line/3 Rectangles/3 Circles	
Isotherm	Auto/Manual	
Hi/Lo temperature alarm	LCD animation, LED flashlight, Buzzer	
Hi/Lo temperature tracking	√	
Digital camera resolution	5MP	
Digital zoom	2x, 4x	
Video/Voice recording	√	
Wi-Fi/Wi-Fi live streaming	√	
LED lighting	√	
Laser pointer/Laser distance measurement	√	
Analysis software	PC+APP	
General Characteristics		
Battery	5200mAh detachable Li-ion battery pack (UT-M17)	
Operating time	≥4 hours (with Wi-Fi off)	
USB	Type-C	
Storage	32GB Micro SD card	
Image/Video storage format	JPEG/AVI	
Protection	IP54 & 2m	
Certificates	CE, UKCA, FCC, RoHS	
Languages	EN, FR, DE, IT, ES, SV, PL, CZ	
Weight	654g	
Dimension	260mm×97mm×99mm	
Packing Details		
Standard accessories	Type-C USB cable, Micro SD card, Li-ion battery pack×2, Quick Start Guide, English Manual, Documents Download Operation Guide	
Standard individual packing	Toolbox & Gift box	
Standard Qty per carton	1pcs	
Standard carton size	400mm×185mm×345mm	
Standard carton G.W.	4kg	

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UTi256G/UTi384G

Industrial Enhanced Thermal Camera



-20°C~550°C

Manual focus

3.5" IPS touch screen

5MP digital camera

Wi-Fi live streaming

Laser pointer

Bluetooth

PC software analysis

Manual Focus

With a manual focus camera, you can precisely focus on targets and get more accurate results from further away.



Laser Pointer & LED Lighting

Equipped with dual LED lights and laser pointer, which assists the users to locate the targets and take visual images in the environment with low brightness.



Storage Upgrade

Support internal storage up to 8GB.



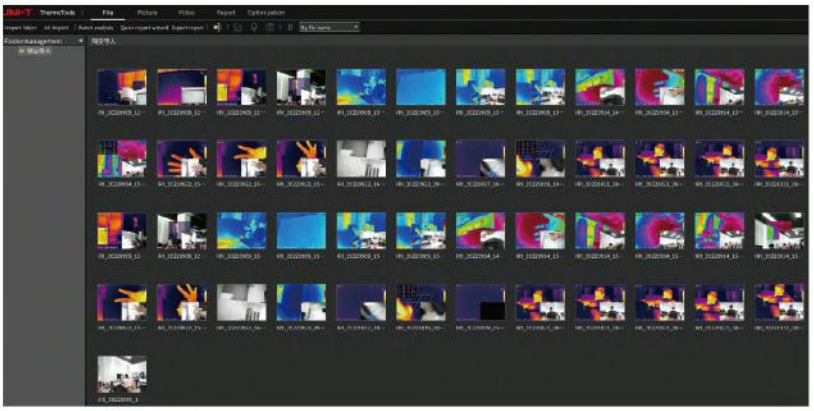
Analysis Software

Air Import

Realize data transmission in a wireless connection way, quickly import photos & videos on thermal imager, improve efficiency of data analysis.







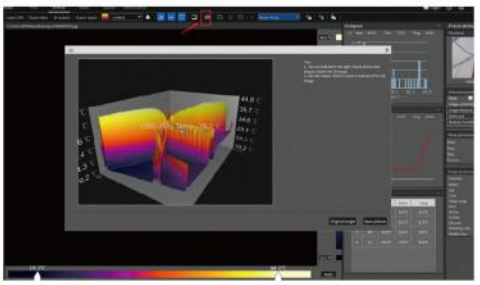
Wi-Fi Live Streaming

Transmitting real-time image to multipledevices simultaneously.



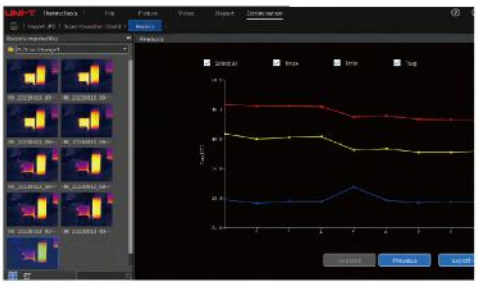
3D Mode

Convert IR image to 3D mode directly.



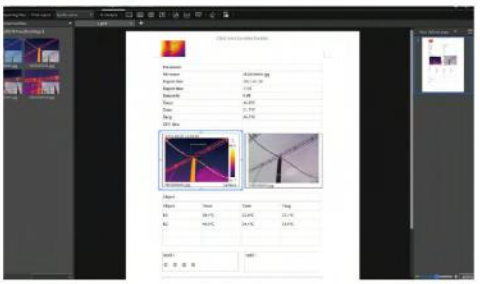
Trend Analysis

Generate the corresponding trend analysis charts.



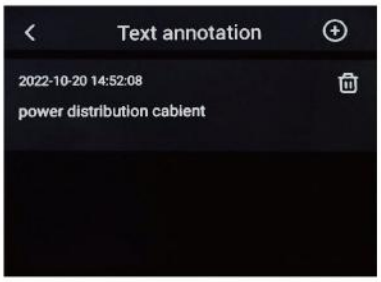
Report Generation & Printing

One-click to generate analysis reports, and support to exporte reports in **.word** & **.pdf** format.

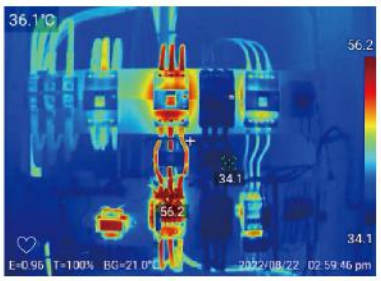


Text & Audio Annotation

Stored photos can be added text or audio annotation, also, supported to be added into favorites, convenient for photos management & traceback.







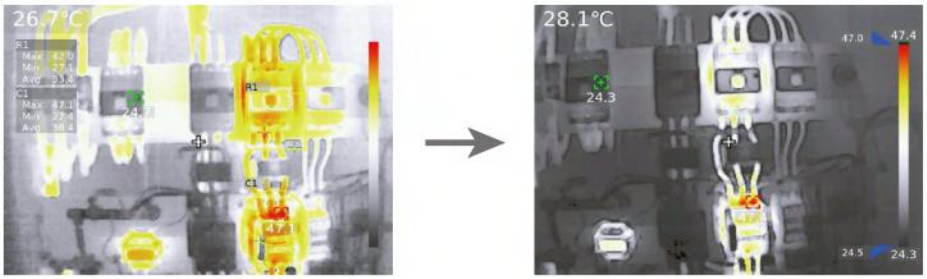
Video Recording

Supported **MP4** and **.irgd** format, which is convenient for real-time data recording & analysis.

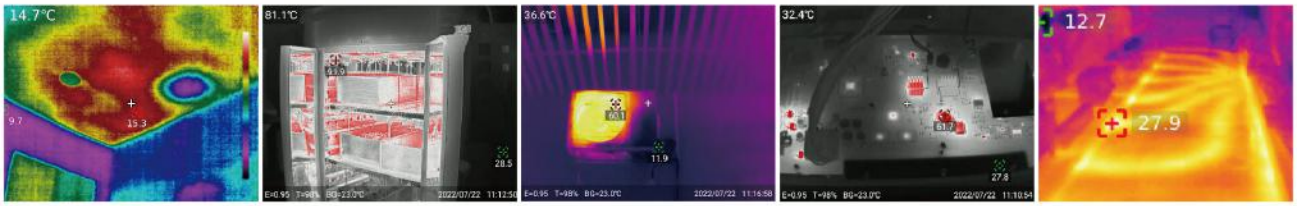


Flexible Isotherm

Manual adjustment and fully automatic operation. Lock the target quickly, and highlight the problem of the measured target.



Applications



Celling Leakage | Machine Inspection | HVAC Inspection | Defective Pixel Analysis | Underfloor Heating

Specifications

Model No.	UTi256G	UTi384G
Product Photo		
Technical Data		
Display	3.5" IPS Touch (640×480)	
IR resolution(Pixels)	256×192	384×288
Pixel size	17μm	
Frame rate	≤30Hz	
Thermal sensitivity(NETD)	≤40mK	
Focus	Manual Focus	
Field of view(FOV)	28°(H) × 20°(V)	42°(H) × 30°(V)
Temperature measurement range	-20°C~550°C	
Accuracy	±2°C or ±2%	
Functions		
Image modes	Thermal, Visual image, Fusion, PIP	
On screen analyzer	3 Points/3 Lines/3 Rectangles/3 Circles	5 Points/5 Lines/5 Rectangles/5 Circles
Isotherm	Auto/Manual/Above/Below/Section	
Hi/Lo temperature alarm	LCD animation	
Hi/Lo temperature tracking	√	
Digital camera resolution	5MP	
Digital zoom	2x, 4x	
Video/Voice recording	—/√	√
Wi-Fi/Wi-Fi live streaming	√	
Bluetooth	√	
LED lighting	√	
Analysis software	PC+APP	
General Characteristics		
Battery	5200mAh detachable Li-ion battery pack (UT-M17)	
Operating time	Approx. 5 hours (with Wi-Fi off)	
USB	Type-C	
Storage	8GB Internal & 32GB Micro SD card	
Image/Video storage format	JPEG	JPEG/MP4 & irgd
Protection	IP54 & 2m	
Certificates	CE, UKCA, FCC, RoHS	
Languages	EN, FR, DE, IT, ES, SV, PL, CZ, RU, PT, AR, JA	
Weight	880g	
Dimension	261mm×104mm×97mm	
Packing Details		
Standard accessories	Type-C USB cable, Micro SD card, Li-ion battery pack×2, English Manual, Documents Download Operation Guide	
Standard individual packing	Toolbox & Gift box	
Standard Qty per carton	1pcs	
Standard carton size	400mm×185mm×345mm	
Standard carton G.W.	3.9kg (UTi256G) / 4kg (UTi384G)	

UTi740H

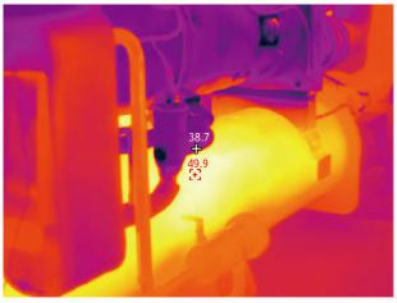
Professional Thermal Camera



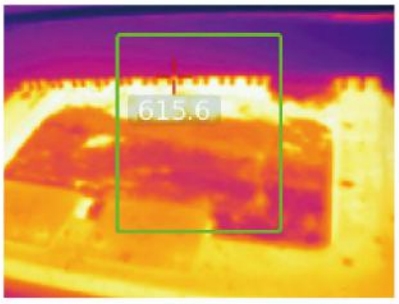
-30°C~650°C | IR resolution | 4.3" IPS screen (800×480) | Manual focus

5MP digital camera | Wi-Fi live streaming | On screen analyzer | Detachable battery

- **IR Resolution:** 384×288



- **Temperature Measurement Range:** -30°C~650°C



- **4.3" IPS Display Screen Manual Focus**

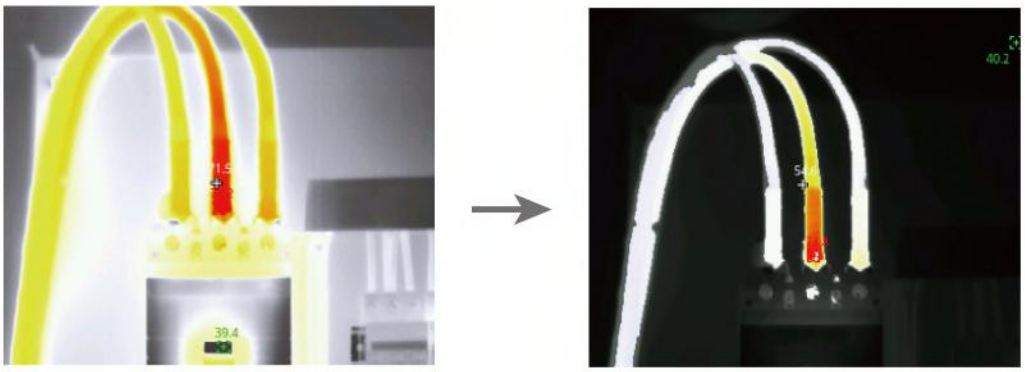


- **Digital Camera Resolution:** 5MP



Flexible Isotherm

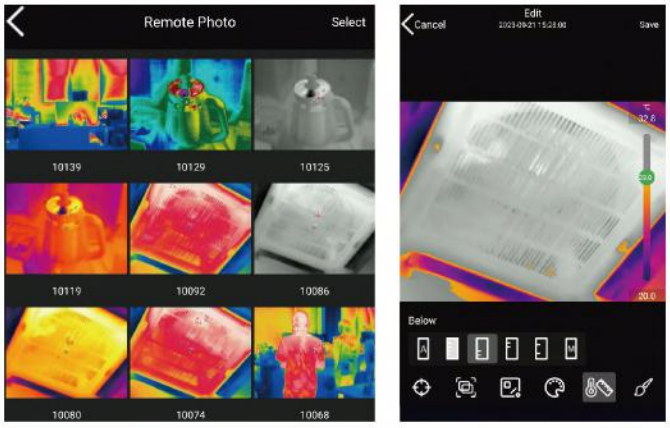
Selecting the suitable isotherm mode based on your measuring demand and the actual measuring conditions. The targets with the specific temperature range that you are interested in will be quickly located and highlighted.



PC Software/APP

Connecting the device to mobile/PC analysis software via Wi-Fi or wired connection.

Functions like Photo viewing, Secondary editing & analysis and Report generation are supported.



Applications



Energy storage battery inspection



Solar panel inspection



Power distribution cabinet inspection



Electric power tower inspection

Specifications

Model No.	UTi740H
Product Photo	
Technical Data	
Display	4.3" IPS (800×480)
IR resolution(Pixels)	384×288
Pixel size	17μm
Frame rate	≤25Hz
Thermal sensitivity(NETD)	≤60mK
Focus	Manual Focus
Field of view(FOV)	28°(H) × 21°(V)
Temperature measurement range	-30°C ~ 650°C
Accuracy	±2°C or ±2%
Functions	
Image modes	Thermal, Visual image, Fusion (T-Mix), PIP
On screen analyzer	5 Points/1 Line/5 Rectangles/5 Circles
Isotherm	Auto/Manual
Hi/Lo temperature alarm	LCD animation
Hi/Lo temperature tracking	√
Digital camera resolution	5MP
Digital zoom	2x, 4x
Wi-Fi	√
Bluetooth	√
Analysis software	PC+APP
General Characteristics	
Battery	5200mAh detachable Li-ion battery pack (UT-M17)
Operating time	Approx. 5 hours (with Wi-Fi off)
USB	Type-C
Storage	32GB Micro SD card
Image storage format	BMP
Protection	IP54 & 2m
Certificates	CE, UKCA, FCC, RoHS
Languages	EN, FR, DE, IT, ES, SV
Weight	806g
Dimension	266mm×126mm×136mm
Packing Details	
Standard accessories	Type-C USB cable, Micro SD card, Li-ion battery pack×2, Hand Strap, English Manual, Documents Download Operation Guide
Standard individual packing	Toolbox & Gift box
Standard Qty per carton	1pcs
Standard carton size	400mm×185mm×345mm
Standard carton G.W.	4.1kg

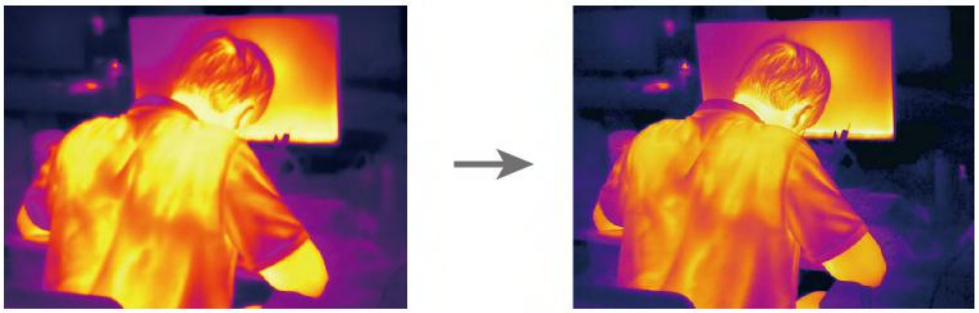


UTi640Q

Professional Enhanced Thermal Camera



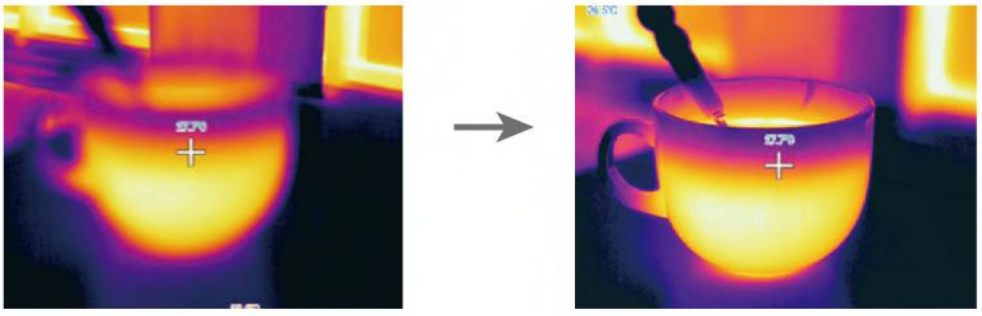
IR Resolution Upgrade



384×288 → 640×512

Manual Focus

No matter the measuring distance, image gets more clear.



4.3" IPS Touch Screen

The LCD touchscreen allows for image manipulation right on the camera-edit emissivity and do markers.



Human Face Detection

Automatically recognizes & trace human face, generates a temperature measuring frame, and shows the Hi & Lo temperature data.



PC Software

USB storage mode: Realize photos viewing, editing & analysis function.

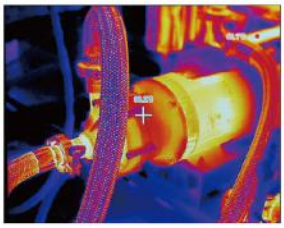
USB projection mode: Realize real-time image projection function.



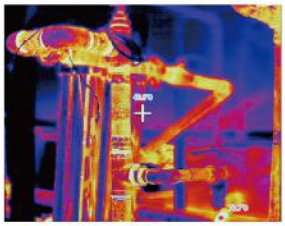




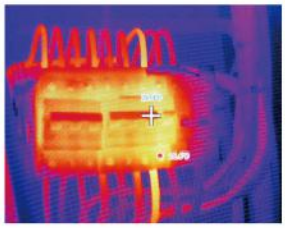
Applications



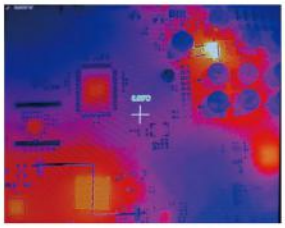
Energy storage battery cabinet inspection



Mechanical equipment inspection



Electric power tower inspection



PCBA inspection

Specifications

Model No.	UTi640Q
Product Photo	
Technical Data	
Display	4.3" IPS Touch (800×480)
IR resolution(Pixels)	640×512
Pixel size	12μm
Frame rate	≤50Hz
Thermal sensitivity(NETD)	≤60mK
Focus	Manual Focus
Field of view(FOV)	32.9°(H) × 26.6°(V)
Temperature measurement range	-30°C ~ 650°C
Accuracy	±2°C or ±2%
Functions	
Image modes	Thermal, Visual image, Fusion (T-Mix), PIP
On screen analyzer	10 Points/10 Lines/10 Rectangles/10 Circles
Isotherm	Auto/Manual
Hi/Lo temperature alarm	LCD animation & Buzzer
Hi/Lo temperature tracking	√
Digital camera resolution	5MP
Digital zoom	2x, 4x, 6x
Video/Voice recording	√
AI recognition	√
Wi-Fi/Wi-Fi live streaming	√
Bluetooth	√
Analysis software	PC+APP
General Characteristics	
Battery	5200mAh detachable Li-ion battery pack (UT-M17)
Operating time	Approx. 4 hours (with Wi-Fi off)
USB	Type-C
Storage	32GB Micro SD card
Image/Video storage format	JPEG/MP4
Protection	IP54 & 2m
Certificates	CE, UKCA, FCC, RoHS
Languages	EN, FR, DE, IT, ES, SV, PL, CZ
Weight	846g
Dimension	264mm×127mm×136mm
Packing Details	
Standard accessories	Type-C USB cable, Micro SD card, Li-ion battery pack×2, Hand Strap, Quick Start Guide Documents, Download Operation Guide
Standard individual packing	Toolbox & Gift box
Standard Qty per carton	1pcs
Standard carton size	400mm×185mm×345mm
Standard carton G.W.	4kg



UTi32

High Temperature Thermal Camera

UTi32 is specially designed for measuring ultra-high temperature scenarios, measuring temperature up to 1000C. Also, it features a digital camera with 300,000 pixels and LED light, which meets the different requirements for measuring work.

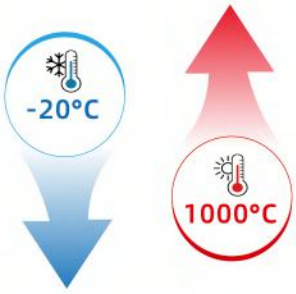


-20°C~1000°C | Digital camera | LED lighting

The max. 1000°C

>7h
Ultra-long battery life | Temperature alarm

Temperature Measurement Range:
-20°C~1000°C

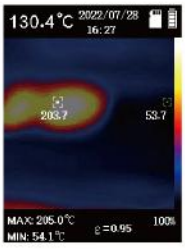


Temperature Alarm



Image Modes

UTi32 features an infrared camera and digital camera to meet the requirements of switching image modes in different measuring scenarios.





Ultra-long Battery Life

Fully charged for 7 hours



Applications


Forging


Smelter furnace


Ceramic manufacturing


Glass processing

Specifications

Model No.	UTi32
Product Photo	
Technical Data	
Display	2.4" IPS (320×240)
IR resolution(Pixels)	32×32
Pixel size	17μm
Frame rate	≤9Hz
Thermal sensitivity(NETD)	≤150mK
Focus	Focus Free
Field of view(FOV)	30°(H) × 30°(V)
Temperature measurement range	-20°C ~ 1000°C
Accuracy	±2°C or ±2%
Functions	
Image modes	Thermal, Visual image, Fusion
Hi/Lo temperature alarm	LCD animation
Hi/Lo temperature tracking	√
Digital camera resolution	300,000 pixels
General Characteristics	
Battery	2600mAh rechargeable Li-ion battery
Operating time	≥7 hours
USB	Type-C
Storage	16G Mirco SD card
Image storage format	BMP
Certificates	CE, UKCA, FCC, RoHS
Languages	ZH, EN
Weight	303g
Dimension	205mmx124mmx65mm
Packing Details	
Standard accessories	Type-C USB cable, SD card, English Manual, Documents Download Operation Guide
Standard individual packing	Gift box
Standard Qty per carton	5pcs
Standard carton size	500mm×275mm×190mm
Standard carton G.W.	3.4kg



Pro Series

Handheld Thermal Cameras

Intelligent High-end Infrared Thermal Camera. IR resolution of UTi640D & UTi1024D high-end infrared thermal cameras are 640×480 and 1024×768 respectively, equipped with a 5MP digital camera and 5"/5.8" touch display screen(1280×720 pixels) , making it easier for you to detect the subtle changes of the temperature differences, and also support to replace the camera lenses to meet your requirements of measurement in various scenarios.



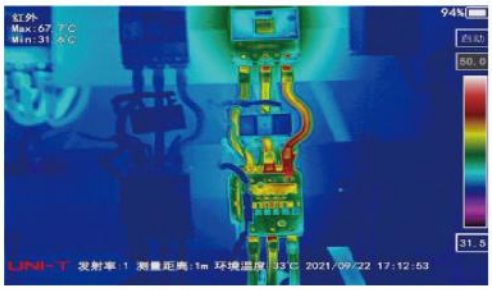
- 640 × 480 — IR resolution (UTi640D)
- 1024 × 768 — IR resolution (UTi1024D)
- -20°C~550°C
- Touch screen
- 50Hz — Frame rate
- Video recording
- PC software analysis
- Eyepiece observation

UTi640D/UTi1024D

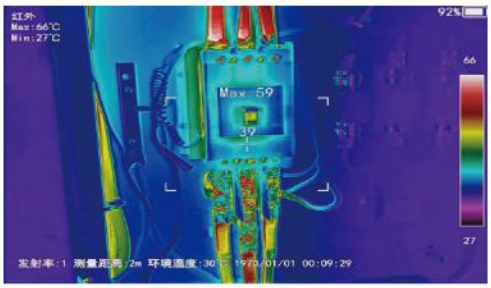
Intelligent High-end Infrared Thermal Camera



Imaging Comparison



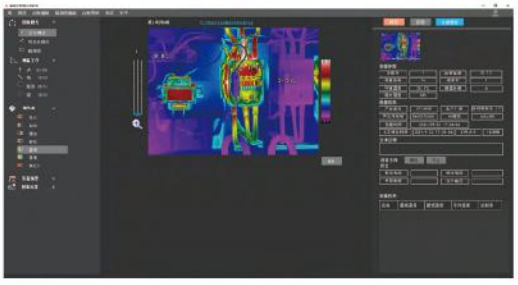
UTi640D: Able to detect the subtle temperature changes of the objects.
IR resolution: 640×480
With 5" touch display screen



UTi1024D: Able to detect the subtle temperature changes and corrosion situation of the objects.
IR resolution: 1024×768
With 5.8" touch display screen

Analysis Software & HDMI Connection

PC software provides numerous powerful functions like Photo viewing, Parameter changing, Report generation, Video editing, Photos analysis, and Analysis object adding.





Optional Camera Lens

Wide-angle lens: With a wider imaging range (0.5x, 46°)

Medium tele lens: Suitable for distant observation (2x, 12°)

Tele lens: Suitable for distant observation (4x, 7°)

Marco lens



Optional Viewfinder

Aftered installed the optional viewfinder, activate viewfinder observation function in settings, and users can directly obtain images through the viewfinder to save battery power, and overcome the difficults of viewing the display screen under the strong light.



Applications

Power equipment inspection & fault diagnosis

- Various types of conductive joints, clamps, wiring pile heads oxidation corrosion and poor connection defects.
- Various types of high-voltage switch internal center contact poor contact defects.
- Defects in the isolation of the knife blade and contact piece, as well as the poor combination between the rotating cap and the ball head.
- Various CT primary inner and outer center connection defects, poor body and oil insulation defects, and abnormal inner center core and coil overheating collapse.
- Various types of PT insulation defects, lack of oil, and abnormal inner center core and coil overheating defects.
- Overheating of various types of capacitors, poor oil insulation of coupling capacitors and lack of oil (low oil level) Defects.



High voltage wiring pile head inspection



PCB board temperature field analysis and research

Specifications

Model No.	UTi640D	UTi1024D
Product Photo		
Technical Data		
Display	5'' IPS Touch (1280×720)	5.8'' IPS Touch (1280×720)
IR resolution(Pixels)	640×480	1024×768
Pixel size	17μm	
Frame rate	≤50Hz	
Thermal sensitivity(NETD)	≤45mK	
Focus	Manual/Electric/Automatic	
Field of view(FOV)	24.5°(H) × 18.5°(V)	31°(H) × 23°(V)
Temperature measurement range	-40°C~650°C (Standard Lens)	650°C~2000°C(Optional Lens)
Accuracy	±2°C or ±2%	
Functions		
Image modes	Thermal, Visual image, Fusion, PIP	
On screen analyzer	10 Points/5 Lines/10 Rectangles/10 Circles	
Isotherm	Above & Below	
Hi/Lo temperature alarm	LCD animation, LED flashlight, Buzzer	
Hi/Lo temperature tracking	√	
Digital camera resolution	5MP	
Digital zoom	1.1~10x continuous	
Video/Voice recording	√	
Wi-Fi	√	
Bluetooth/GPS	√	
LED lighting	√	
Laser pointer	√	
Analysis software	PC	
General Characteristics		
Battery	3400mAh detachable Li-ion battery	
Operating time	≥3 hours	≥2 hours
USB	Type-C & HDMI	
Storage	16GB Internal & 16GB Micro SD card	
Image/Video storage format	JPEG/dat	
Protection	IP54	
Languages	ZH	
Weight	<1.7kg	
Dimensions	262.5mm×150.5mm×91.3mm	237mm×169.6mm×89.4mm
Packing Details		
Standard accessories	Hand Strap, Lithium Battery pack×2, Adapter, SD card, Card Reader, USB cable, HDMI cable, Earphone, Shoulder Girdle, Lens Cloth, Lens Cap, Rubber Suction Bulb, CD-ROM, User Manual	
Standard individual packing	Toolbox & Gift box	
Standard Qty per carton	1pcs	
Standard carton size	675mm×460mm×295mm	
Standard carton G.W.	7.8kg	

Smartphone Thermal Cameras

Smartphone thermal cameras are small sized and lightweight in design, converting mobile devices into professional thermal cameras. A user-friendly Mobile App is also included for photo viewing, download and analysis.





UTi722M

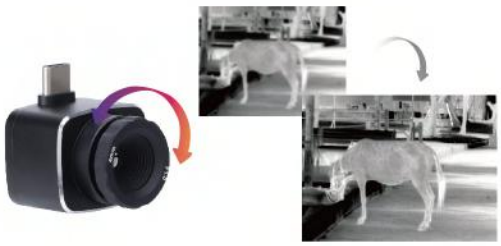
Smartphone Thermal Camera

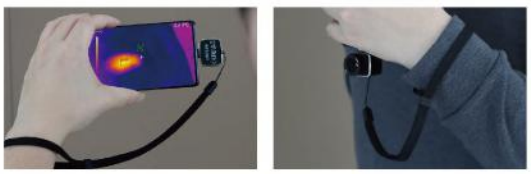


- Portable & Convenient
- Manual focus
- On screen analyzer
- Temperature alarm
- 256 × 192 IR resolution
- APP Mobile APP

Manual Focus

UTi722M is an affordable & professional thermal camera designed for Android devices. The aluminum alloy shell makes the product more durable. The most prominent bright feature is the 4.0mm adjustable lens. It can meet your needs of measuring the targets near or far.





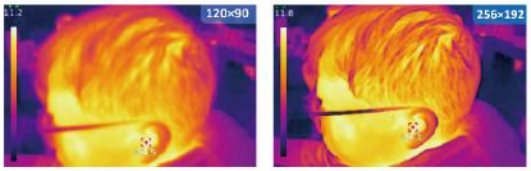
Appearance Design

- Approx. **30g**, design in pocket size
- Size: 29.5×24.5×29.5mm
- Easy to use



Better Resolution

- Upgraded from 120×90 to 256×192



Mobile APP

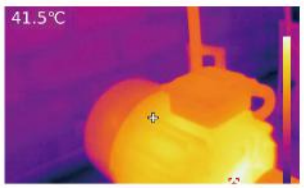
- Plug & Play with "Thermal Mobile"
- Battery-free design with low power consumption



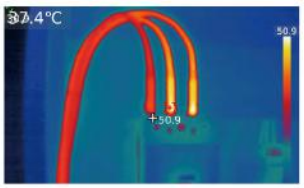
UNI-T Thermal Mobile

GET IT ON Google Play

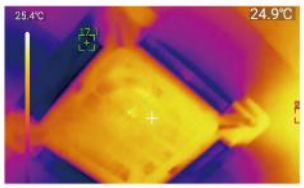
Applications



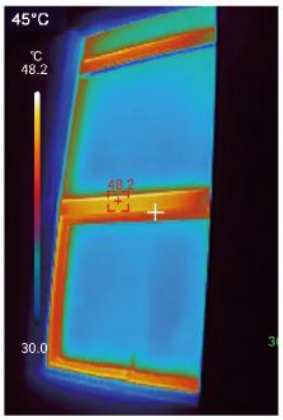
Industrial inspection



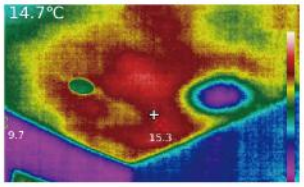
Electrical inspection



HVAC inspection



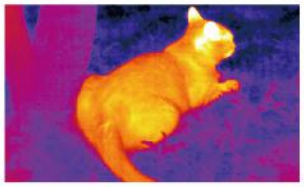
Insulation inspection



Moisture leakage inspection



EST screening


Outdoor

Specifications

Model No.	UTi722M
Product Photo	
Technical Data	
IR resolution(Pixels)	256×192
Pixel size	12μm
Frame rate	≤25Hz
Thermal sensitivity(NETD)	≤50mK @25°C
Focus	Manual Focus
Field of view(FOV)	44.92°(H) × 33.42°(V)
Measurement modes	Industry & EST screening
Temperature measurement range	-20°C~450°C
Accuracy	Industry: ±2°C or ±2% (0°C~450°C) EST: ±0.5°C (30°C~40°C)
Functions	
On screen analyzer	3 Points/3 Lines/3 Rectangles
Isotherm	Auto/Below/Above/Section/Manual
Hi/Lo temperature alarm	LCD animation & Buzzer
Hi/Lo temperature tracking	√
Video recording	√
General Characteristics	
USB	Type-C
Image/Video storage format	JPEG/MP4
Certificates	CE, UKCA, FCC, RoHS
Languages	ZH, EN, FR, DE, IT, ES, SV
Weight	30g
Dimension	29.5mm×24.5mm×29.5mm
Packing Details	
Standard accessories	Type-C extension cable, Hand Strap, Cleaning Cloth,, Cloth Bag, English manual, Documents Download Operation Guide
Standard individual packing	Gift box
Standard Qty per carton	20pcs
Standard carton size	515mm×315mm×335mm
Standard carton G.W.	6.8kg



UTi120M/UTi120MS/UTi720M/UTi721M

Smartphone Thermal Camera





- **IR resolution:**
  120x90 (UTi120M/UTi120MS)
  256x192 (UTi720M/UTi721M)
- **Temperature measurement range:**
  -20°C to 400°C (UTi120M/UTi120MS)
  -20°C to 200°C (UTi720M)
  -20°C to 550°C (UTi721M)
- Video recording
- Auto alarm and tracking for high/ low temperature
- **Operating system:**
  Android (UTi120M/UTi720M/UTi721M)
  iOS (UTi120MS)
- **USB:** Type-C (UTi120M/UTi720M/UTi721M)
  Lightning (UTi120MS)
- **On screen analyzer:**
  6 Points/6 Lines/6 Rectangles/6 Circles (UTi120M/UTi120MS)
  3 Points/3 Lines/3 Rectangles (UTi720M/UTi721M)

Two Measurement Modes of UTi721M



EST screening mode



Industry mode

UNI-T Thermal Mobile

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Multiple Connection Modes for UTi120M



1 Type-C extention USB cable connection

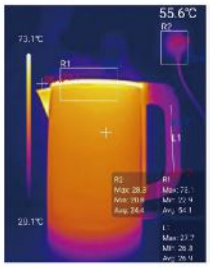


2 Mircro USB adpter connection



3 Direct connection (Type-C interface)

On Screen Analyzer



- 3 Points
- 3 Lines
- 3 Rectangles

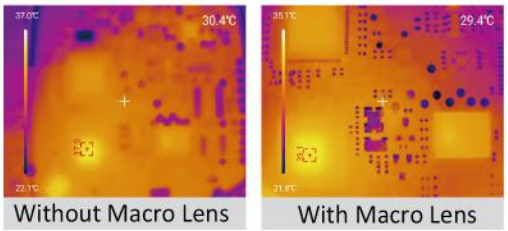
Photo Capturing & Video Recording



Optional Marco Lens(UT-Z005)

Applicable for UTi720M/UTi721M





Without Macro Lens | With Macro Lens

Applications



Pipeline inspection



Industrial inspection



Electrical inspection



HVAC inspection

Specifications

Model No.	UTi120M	UTi120MS	UTi720M	UTi721M	UTi722M
Product Photo					
Technical Data					
IR resolution(Pixels)	120×90		256×192		256×192
Pixel size	17μm		12μm		12μm
Frame rate	≤25Hz		≤25Hz		≤25Hz
Thermal sensitivity(NETD)	≤60mK @25°C		≤50mK @25°C		≤50mK @25°C
Focus	Focus Free		Focus Free		Manual Focus
Field of view(FOV)	50°(H) × 38°(V)		56°(H) × 42.2°(V)		44.92°(H) × 33.42°(V)
Measurement modes	Industry		Industry	Industry & EST screening	Industry & EST screening
Temperature measurement range	-20°C~400°C		-20°C~200°C	-20°C~550°C	-20°C~450°C
Accuracy	±2° or ±2%		±2° or ±2%	Industry: ±2° or ±2% (0°C~550°C) EST: ±0.5° (30°C~40°C)	Industry: ±2° or ±2% (0°C~450°C) EST: ±0.5° (30°C~40°C)
Functions					
On screen analyzer	6 Points/6 Lines/6 Rectangles/6 Circles		3 Points/3 Lines/3 Rectangles		
Isotherm	—		Auto/Below/Above/Section/Manual		
Hi/Lo temperature alarm	LCD animation		LCD animation & Buzzer		
Video recording	√		√		
Hi/Lo temperature tracking	√		√		
General Characteristics					
USB	Type-C	Lightning	Type-C		
Image/Video storage format	JPEG/MP4	JPEG/MP4	JPEG/MP4		
Certificates	CE,UKCA,FCC,RoHS	MFi, CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS		
Languages	ZH, EN		ZH, EN, FR, DE, IT, ES, SV		
Product net weight	25g		13g		30g
Product size	53mm×18.2mm×18.5mm		33mm×28.2mm×11.3mm		29.5mm×24.5mm×29.5mm
Packing Details					
Standard accessories	English Manual, Documents Download Operation Guide (Common) Type-C extension cable (Excepted UTi120MS) Micro USB adapter (UTi120M only) Hand Strap, Cleaning Cloth,, Cloth Bag (UTi722M only)				
Standard individual packing	Gift Box				
Standard Qty per carton	20pcs				
Standard carton size	290mm×265mm×325mm (UTi120M/UTi120MS/UTi720M/UTi721M) 515mm×315mm×335mm (UTi722M)				
Standard carton G.W.	4.8kg (UTi120M) 3.9kg (UTi120MS) 4.4kg (UTi720M/UTi721M) 6.8kg (UTi722M)				



UTi720M/UTi721M

Thermal Monoculars

Thermal monoculars are tailored to outdoor lovers, designed with convenience and easy of use. This series products are also ergonomic and lightweight, with excellent imaging, they are good choices for search and rescue, hunting, and other outdoor activities.



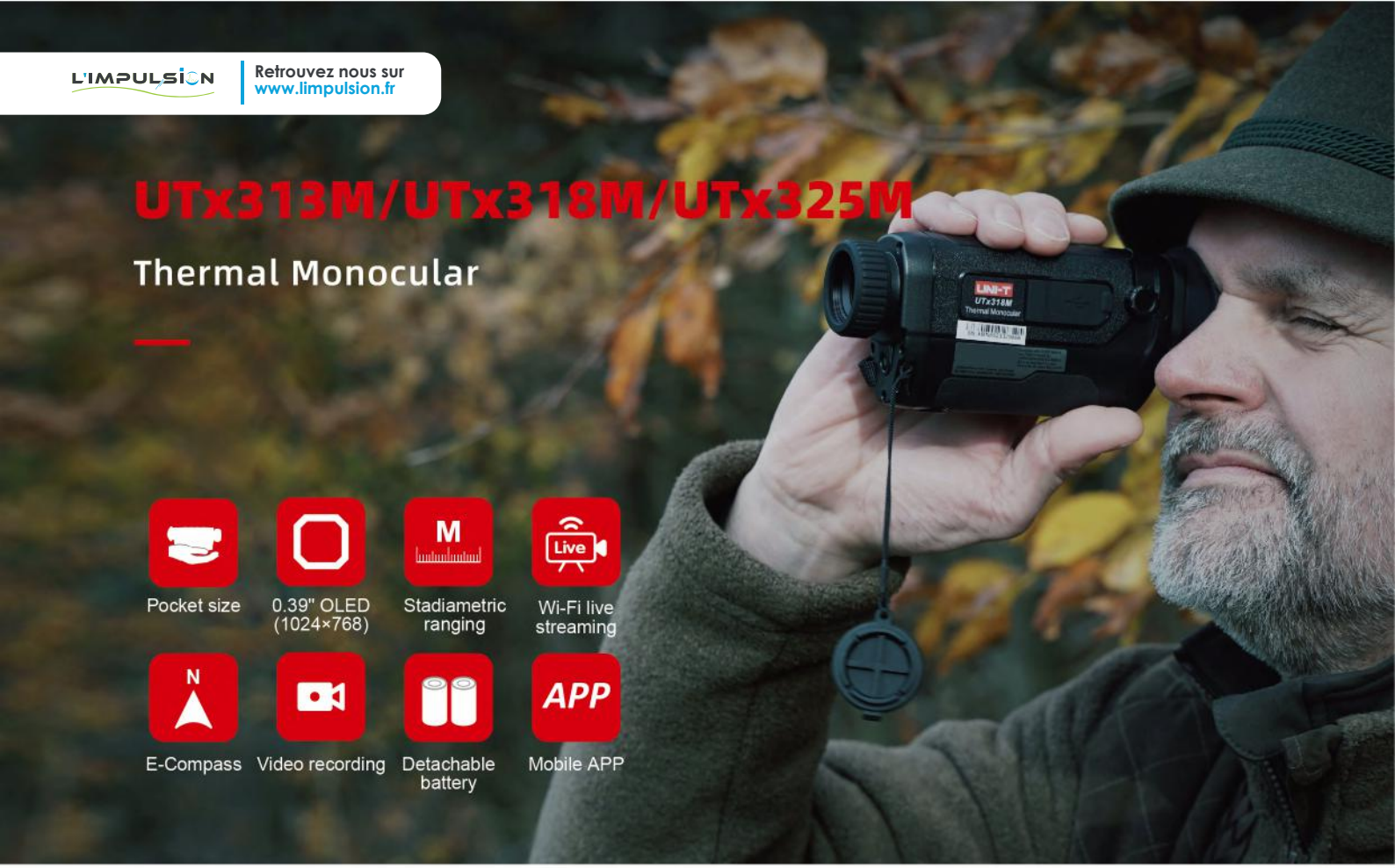
Thermal Xplorer

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UTx313M/UTx318M/UTx325M

Thermal Monocular



Pocket Size

Easy to carry on the go in a pocket or cloth bag. Its structure conforms to the design of human body mechanics, which is convenient for one-handed operation.





Large OLED Display

0.39" large display screen, high-definition (1024×768), more details come into view, providing an excellent observation experience.

Scene Modes

To meet the requirements of different usage scenarios, UTx318M offers 3 scene modes:

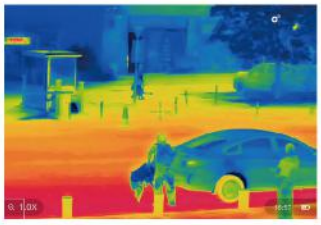
- **Bird mode:** Find a target with small heat sources. It's suitable for bird observation.
- **Forest mode:** Providing more details of the observed target and landscape. It's suitable for observation and searching in forest.
- **Rock mode:** Show more details in the complex scene. It's suitable for sunny days or urban environments.



Bird mode



Forest mode



Rock mode



Smart Standby



Display screen automatically lights up when the device closes to the eyes. If you place the device for 30s above without any operations, the device automatically switches to standby mode for saving power.

Charging Base

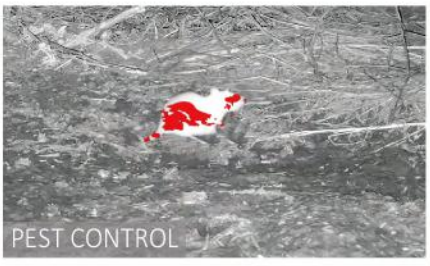
- Supply power for detachable batteries and mobile devices.
- Charging via Type-C interface





- Charging indicator light







Specifications

Model No.	UTx313M	UTx318M	UTx325M
Product Photo			
Technical Data			
Display	0.39" OLED (1024×768)		
IR resolution(Pixels)	400×300		
Pixel size	12μm		
Frame rate	≤50Hz		
Thermal sensitivity(NETD)	≤25mK		
Focus	Manual focus		
Lens focal length	13mm	18mm	25mm
Field of view(FOV)	20°(H) × 15°(V)	14.6°(H) × 11°(V)	10.5°(H) × 7.9°(V)
Diopter adjustment	-4D~+5D		
Functions			
Digital zoom	2x, 4x, 8x / 1.0~8x continuous		
Scene modes	Bird, Forest, Rock		
Calibration modes	Auto, Manual, Background		
Stadiametric ranging	√		
Smart standby	√		
Hot trace	√		
E-Compass	√		
PIP	√		
Video recording	√		
Photo viewing	Device Local, PC, APP		
Wi-Fi download photo	√		
Wi-Fi live streaming	√		
Video output	Type-C interface		
Analysis software	APP (Android & iOS)		
General Characteristics			
Battery	3200mAh detachable Li-ion battery (UT-M20)		
Operating time	≥4 hours		
USB	Type-C		
Storage	16GB Internal		
Image/Video storage format	PNG/MP4		
Protection	IP67 & 2m drop proof		
Certificates	EAC, CE, FCC, RoHS, FDA		
Languages	EN, FR, DE, ES, IT, RU, UA		
Weight	357g		
Dimensions	160mm×71.5mm×38.5mm		
Packing Details			
Standard accessories	Type-C USB cable, Hand Strap, Cloth Bag, Charging Base, Rechargeable Li-ion battery×2, Quick Start Guide, Tool Box		
Standard individual packing	Gift box		
Standard Qty per carton	1pcs		
Standard carton size	305mm×135mm×265mm		
Standard carton G.W.	2kg		

UTx313/UTx318/UTx325

Thermal Monocular



- 0.4" LCOS (1280×960)
- Hot trace
- 384 × 288 IR resolution
- IP67 Waterproof and dustproof
- Photo viewing
- 2m drop proof

384×288 IR Resolution

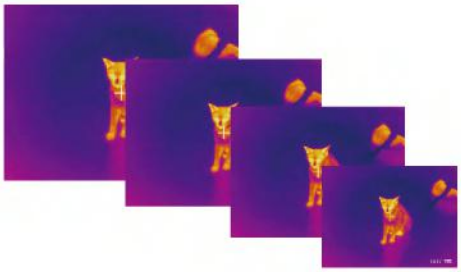


Photo Viewing

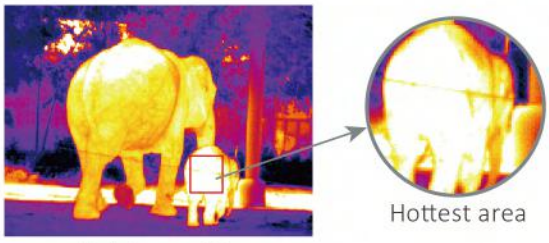


Center Spot Mark



Hot Trace

Thermal monocular can automatically detects and marks the hot spot of highest temperature.



Hot trace - On

Digital Details Enhancement



DDE is an improved algorithm, which remains details on the images with high dynamic range, assists users to collect more details in scenarios with extreme dynamic range.

Digital Zoom

2x, 4x / 1.0~4x continuous



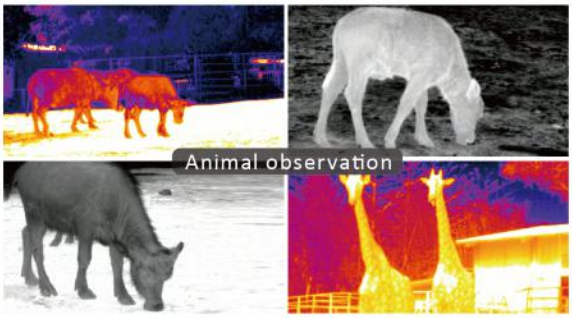
Product Range Performance

Detection Range
Recognition Range
Identification Range

	UTx313	UTx318	UTx325
Rabbit (Height: 0.3m, Width: 0.3m)	225 / 56 / 28	299 / 75 / 37	417 / 104 / 52
Wild boar (Height: 0.6m, Width: 1.1m)	609 / 152 / 76	808 / 202 / 101	1128 / 282 / 141
Human (Height: 1.8m, Width: 0.5m)	711 / 178 / 89	944 / 236 / 118	1318 / 329 / 165
Vehicle (Height: 2.3m, Width: 2.3m)	1723 / 431 / 215	2289 / 572 / 286	3194 / 799 / 399

Applications

Animal observation, hunting, navigation, security, camping &search, law enforcement, firefighting, etc.





Specifications

Model No.	UTx313	UTx318	UTx325
Product Photo			
Technical Data			
Display	0.4'' LCOS (1280×960)		
IR resolution(Pixels)	384×288		
Pixel size	12μm		
Frame rate	≤50Hz		
Thermal sensitivity(NETD)	≤40mK		
Focus	Manual focus		
Lens focal length	13.5mm	18mm	25mm
Field of view(FOV)	20.3°(H) × 15.2°(V)	14.6°(H) × 11°(V)	10.5°(H) × 7.9°(V)
Diopter adjustment	-5D~+3D		
Functions			
Digital zoom	2x, 4x / 1.0~4x continuous		
Calibration modes	Auto, Manual, Background		
Hot trace	√		
Photo viewing	Device Local & PC		
Video output	MCX interface		
General Characteristics			
Battery	4000mAh rechargeable Li-ion battery		
Operating time	≥8 hours		
USB	Type-C		
Storage	16GB Internal		
Image storage format	PNG		
Protection	IP67 & 2m drop proof		
Certificates	UL, CE, UKCA, RoHS		
Languages	ZH, EN		
Weight	428g		
Dimensions	207.6mm×62mm×62mm		
Packing Details			
Standard accessories	Type-C USB cable, English Manual, Tool Box		
Standard individual packing	Gift box		
Standard Qty per carton	1pcs		
Standard carton size	370mm×140mm×275mm		
Standard carton G.W.	1.9kg		

UTx210W

Thermal Monocular



- 0.23" OLED (640×400)
- 256 × 192 IR resolution
- 50Hz Frame rate
- M Stadiametric ranging
- Live Wi-Fi live streaming
- 1x 8x Digital zoom
- Video recording
- APP Mobile APP

OLED 640×400 Display

0.23" display screen, high-definition (640×400), more details come into view, providing an excellent observation experience.

640×400 OLED

Waterproof & Dustproof

The whole machine is waterproof (IP67) and dustproof, which can be used in harsh conditions.

IP67



Wi-Fi

Wi-Fi hotspot and Type-C interface provide easy connectivity options, making it a great choice for hunters looking for a high-tech hunting monocular.

Wi-Fi

16GB Built-in Memory

Built-in 16GB memory make it easy to store and share your outdoor adventures with this thermal imaging monocular.

16GB

Specifications

Model No.	UTx210W
Product Photo	
Technical Data	
Display	0.23" OLED (640×400)
IR resolution(Pixels)	256×192
Pixel size	12μm
Frame rate	≤50Hz
Thermal sensitivity(NETD)	≤50mK
Focus	Focus free
Lens focal length	10mm
Field of view(FOV)	17.5°(H) × 13.1°(V)
Diopter adjustment	-5D~+5D
Functions	
Digital zoom	2x, 4x, 8x / 1.0~8x continuous
Calibration modes	Auto, Manual, Background
Stadiametric ranging	√
Hot trace	√
E-Compass	√
PIP	√
Video recording	√
Photo viewing	Device Local, PC, APP
Wi-Fi download photo	√
Wi-Fi live streaming	√
Video output	Type-C interface
Analysis software	APP (Android & iOS)
General Characteristics	
Battery	4000mAh rechargeable Li-ion battery
Operating time	≥6 hours
USB	Type-C
Storage	16GB Internal
Image/Video storage format	PNG/MP4
Protection	IP67 & 2m drop proof
Certificates	CE, FCC, RoHS
Languages	EN, FR, DE, ES, IT, RU, UA
Weight	410g
Dimensions	185.5mm×63.7mm×62mm
Packing Details	
Standard accessories	Type-C USB cable, English Manual, Tool Box
Standard individual packing	Gift box
Standard Qty per carton	1pcs
Standard carton size	370mm×140mm×275mm
Standard carton G.W.	1.9kg



UTx625M/UTx635M

Thermal Monocular



640×512 High IR Resolution

With 640×512 high IR resolution, and high-gamut 0.39-inch display brings better image quality and visual effects.

640×512 IR Resolution | **0.39 inch** OLED | **1024×768** Display

Thermal Sensitivity (NETD): <25mk

Uses a 25 mK NETD high sensitivity thermal detector to provide clear and detailed thermal images.



Charging Base

- Supply power for detachable batteries and mobile devices.
- Charging via Type-C interface



Specifications

Model No.	UTx625M	UTx635M
Product Photo		
Technical Data		
Display	0.39" OLED (1024×768)	
IR resolution(Pixels)	640×512	
Pixel size	12μm	
Frame rate	≤50Hz	
Thermal sensitivity(NETD)	≤25mK	
Focus	Manual focus	
Lens focal length	25mm	35mm
Field of view(FOV)	17.4°(H) × 14°(V)	12.5°(H) × 10°(V)
Diopter adjustment	-4D~+5D	
Functions		
Digital zoom	2x, 4x, 8x / 1.0~8x continuous	
Scene modes	Bird, Forest, Rock	
Calibration modes	Auto, Manual, Background	
Stadiametric ranging	√	
Smart standby	√	
Hot trace	√	
E-Compass	√	
PIP	√	
Video recording	√	
Photo viewing	Device Local, PC, APP	
Wi-Fi download photo	√	
Wi-Fi live streaming	√	
Video output	Type-C interface	
Analysis software	APP (Android & iOS)	
General Characteristics		
Battery	3200mAh detachable Li-ion battery (UT-M20)	
Operating time	≥3.5 hours	
USB	Type-C	
Storage	16GB Internal	
Image/Video storage format	PNG/MP4	
Protection	IP67 & 2m drop proof	
Certificates	EAC, CE, FCC, RoHS	
Languages	EN, FR, DE, ES, IT, RU, UA	
Weight	357g	
Dimensions	160mm×71.5mm×38.5mm	
Packing Details		
Standard accessories	Type-C USB cable, Hand Strap, Cloth Bag, Charging Base, Rechargeable Li-ion battery×2, Quick Start Guide, Tool Box	
Standard individual packing	Gift box	
Standard Qty per carton	1pcs	
Standard carton size	305mm×135mm×265mm	
Standard carton G.W.	2kg	

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Accessories



UT-Z002

Macro Lens



** Applicable for UTi260B/UTi720A*

UT-Z003

Macro Lens



** Applicable for UTi730E/UTi720E/ UTi730V/UTi720V*

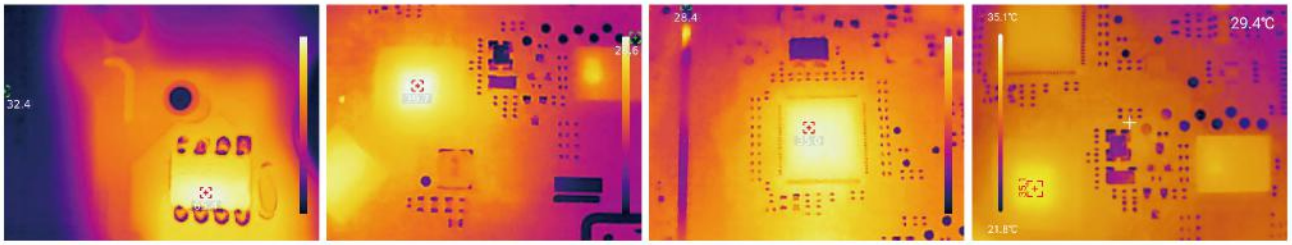
UT-Z005

Macro Lens





** Applicable for UTi721M/UTi720M*



UT-Z004

Charging Base

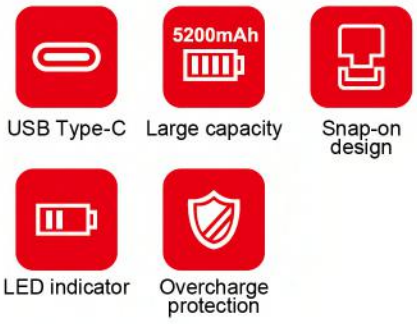


- Supply power for detachable batteries and mobile devices.
- Charging via Type-C interface

** Available on UTx313M/UTx318M/UTx325M/UTx625M/UTx635M*

UT-M17

Li-ion Battery Pack





** Applicable for UNI-T E/V/H/Q/G series thermal camera*

Specification	
Charging current/voltage	1.5A/5V
Battery capacity	5200mAh 19.2Wh
Overcurrent protection	√
Short-circuit protection	√
Overcharge & discharge protection	√
Charging interface protection	Overvoltage protection
Charging interface	USB Type-C
Charging time	<4h
Status indicator	Dual colour LED indicator (Green/Red)
Certificate	UN38.3/UL

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