

UNI-T®

THERMAL CAMERAS 2025



► MILESTONES



Branch in U.S. becomes operational.

2023



Manufacturing base in Heyuan becomes operational.

2021



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

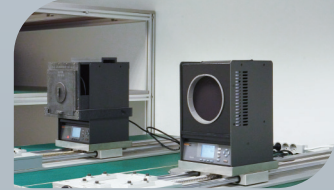
2012



Moved to Humen to start diversified product line development.

2003

2023



Temperature calibration and testing laboratory in Germany.

2022



Branch in Germany becomes operational.

2021



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

2007



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

1988



Company founded in Shenzhen.

UNI-T®

UNI-T
股票代码 688528

优利德科技(中国)股份有限公司
UNI-TREND TECHNOLOGY (CHINA) CO., LTD.

37 Years

289 R&D employees

476 Patents

100,000m² Manufacturing Base

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.

From 2022 to 2024, Uni-Trend established subsidiaries in Munich, Germany and Washington State, the United States respectively. It is committed to building an efficient customer service system and regional coverage, providing users with highly timely technical support and comprehensive product solutions. It provides an effective channel for the development of overseas business and accelerates the promotion of the company's international strategic business goals.

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

Handheld Thermal Camera



UTi740M

- 400×300 pixels
- Manual Focus
- T-Mix fusion & super resolution



UTi716S

- 2MP digital camera
- T-Mix fusion & super resolution
- Temperature measurement range up to 550 C



UTi165B Max/UTi260B Max

- Wi-Fi connection
- Video recording
- T-Mix fusion & super resolution



UTi384J/UTi640J

- Interchangeable lens
- Multiple focus modes
- Temperature measurement range up to 2000 C



UTi641C/UTi1020C/UTi1280C

- 5" Touch screen
- Dual-light video recording
- Temperature measurement range up to 2500 C

On-line Thermographic Camera



UTi591A

- Remote access data
- T-Mix fusion & super resolution
- Multiple installing methods
- Support multiple networking standard & protocol



UTi586A/UTi587A

- Interchangeable lens
- OTA update
- Web-based control
- Multiple installing methods
- Temperature measurement range up to 2000 C

Thermal Monocular



UTx313MR/UTx318MR/UTx325MR

- Compact design
- Featuring LRF function
- High performance infrared detector

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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.



• UTi120M



• UTi120MS



• UTi720M



• UTi721M



• UTi722M



• UTi730M

UTi120M/UTi120MS

Smartphone Thermal Camera

256
x
192

IR resolution



On screen
analyzer



Video recording

APP

Mobile APP



Temperature alert



Lightning

25Hz

Frame rate

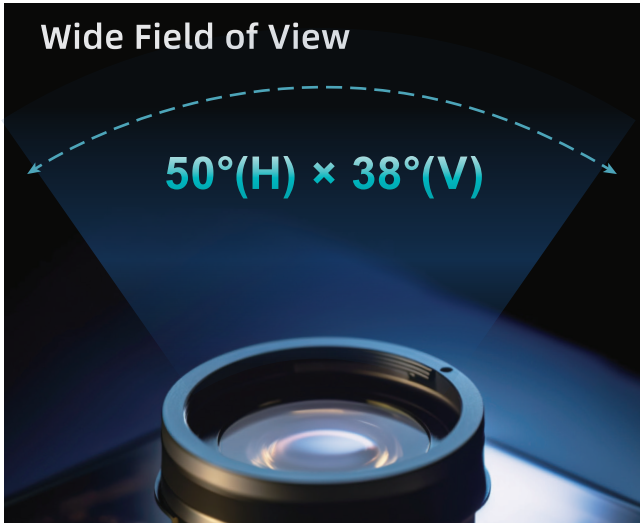


Compact design



Wide Field of View

50°(H) × 38°(V)



Wide Temperature Range



Android & iOS



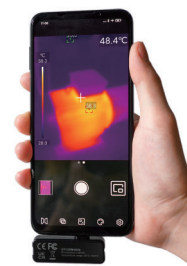
Multiple Connection Modes



1. Extension Cable Connection



2. Convert Adapter Connection



3. Plug in Directly



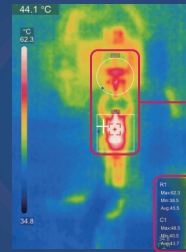
Camera Mode

Slide the white dots above camera button left or right to switch between photo capturing and video recording modes.



On Screen Analyzer



Support to add custom analysis graphics for temperature data monitoring & comparison.

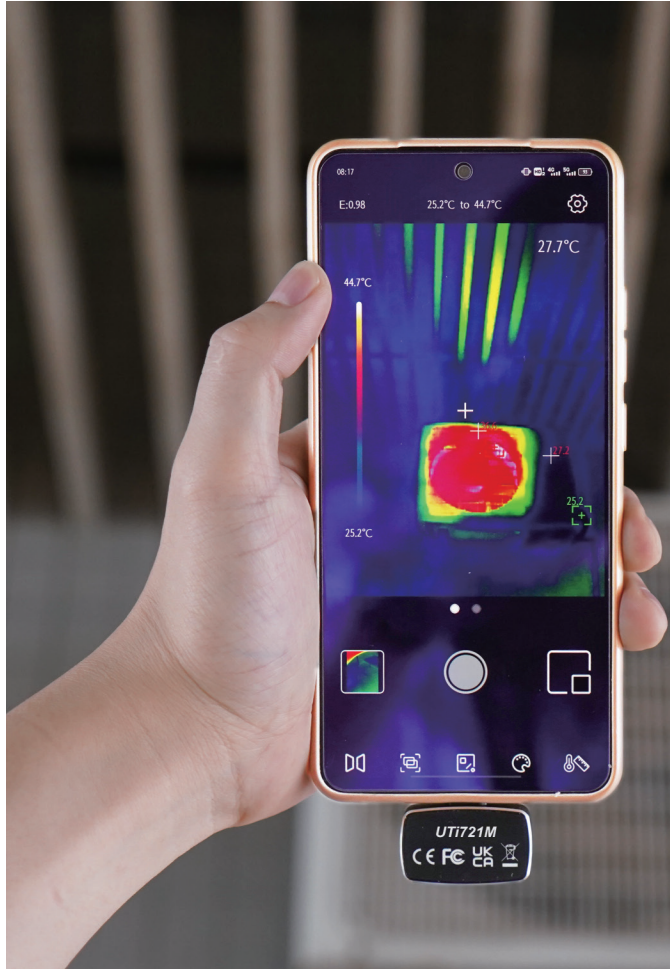


Analysis Graphics

Temperature Data

Specifications

Model No.	UTi120M	UTi120MS
Product Photo		
Technical Data		
IR resolution(Pixels)	120×90	
Pixel size	17μm	
Frame rate	≤25Hz	
Thermal sensitivity(NETD)	≤60mK @25°C	
Focus	Focus Free	
Field of view(FOV)	50°(H) × 38°(V)	
Measurement mode	Industrial	
Temperature measurement range	-20°C~400°C	
Accuracy	±2°C or ±2% whichever is greater	
Functions		
Color palette	Ironbow, White Hot, Black Hot, Red Hot, Lava, Rainbow, Rainbow HC	
On screen analyzer	6 Points/6 Lines/6 Rectangles/6 Circles	
HI/LO temperature alarm	LCD animation	
HI/LO temperature tracking	√	
Video recording	√	
General Characteristics		
USB	Type-C	Lightning
Image/video storage format	JPEG/MP4	
Certificates	CE, UKCA, FCC, RoHS	MFi, CE, UKCA, FCC, RoHS
Languages	ZH, EN	
Product net weight	25g	
Product size	53mm×18.2mm×18.5mm	
Packing Details		
Standard accessories	Micro USB adapter, Type-C extension cable, English Manual, Documents Download Operation Guide	English Manual, Documents Download Operation Guide
Standard individual packing	Gift Box	
Standard Qty per carton	20pcs	
Standard carton size	290mm×265mm×325mm	
Standard carton G.W.	4.8kg	3.9kg



UTi720M/UTi721M

Smartphone Thermal Camera



Compact design



Multi-languages



IR resolution



Frame rate



On screen analyzer



Flexible isotherm



Video recording



Mobile APP



Multi-language OS

Wide Temperature Range

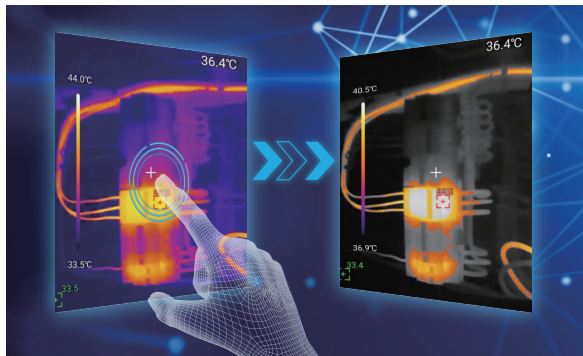
High-definition Detector

EST Screening Mode

Industrial Mode

Isotherm

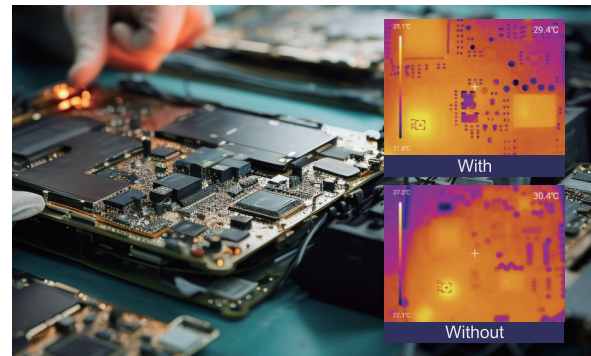
One-tap to switch isotherm modes to highlight the potential problems.





Marco Mode

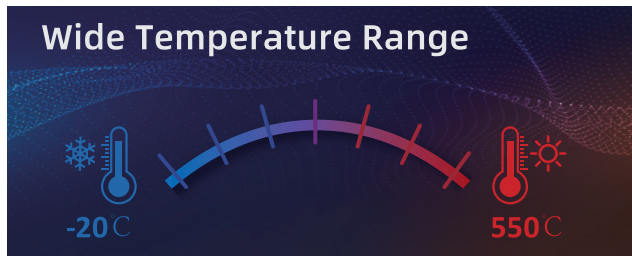
Marco Lens Model No.: **UT-Z005**

Optimal Distance: **40mm**

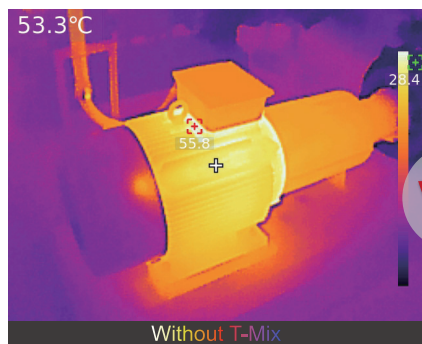


Specifications

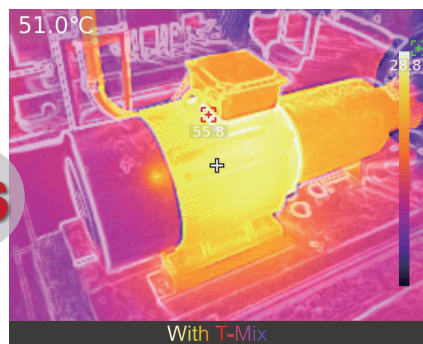
Model No.	UTi720M	UTi721M
Product Photo		
Technical Data		
IR resolution(Pixels)	256×192	
Pixel size	12μm	
Frame rate	≤25Hz	
Thermal sensitivity(NETD)	≤50mK @25°C	
Focus	Focus Free	
Field of view(FOV)	56°(H) × 42.2°(V)	
Measurement mode	Industrial	Industrial & EST screening
Temperature measurement range	-20°C~200°C	-20°C~550°C
Accuracy	±2°C or ±2% whichever is greater	Industrial: ±2° or ±2% whichever is greater (0°C~550°C) EST screening: ±0.5° (30°C~40°C)
Functions		
Color palette	Ironbow, White Hot, Black Hot, Red Hot, Lava, Rainbow, Rainbow HC	
On screen analyzer	3 Points/3 Lines/3 Rectangles	
HI/LO temperature alarm	LCD animation	
HI/LO temperature tracking	√	
Video recording	√	
Isotherm	Auto/Below/Above/Section/Manual	
General Characteristics		
USB	Type-C	
Image/video storage format	JPEG/MP4	
Certificates	CE, UKCA, FCC, RoHS	
Languages	ZH, EN, FR, DE, IT, ES, SV	
Product net weight	13g	
Product size	33mm×28.2mm×11.3mm	
Packing Details		
Standard accessories	Type-C extension cable, English Manual, Documents Download Operation Guide	
Standard individual packing	Gift Box	
Standard Qty per carton	20pcs	
Standard carton size	290mm×265mm×325mm	
Standard carton G.W.	4.4kg	



Inject the visible light details into thermal images without decreasing the transparency and weakening the quality.



VS



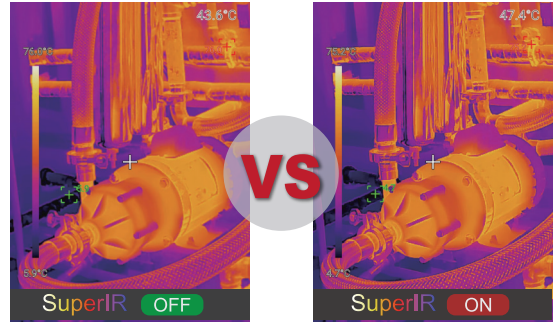
Manual Focus

Features an adjustable lens, rotate the focusing ring manually until the imaging gets clear, no fearless of different measurement distance.





Super Resolution

Tap "HD" icon on the APP to obtain an image with 4x increase in quality.



Specifications

Model No.	UTi722M	UTi740M
Product Photo		
Technical Data		
IR resolution(Pixels)	256×192	400×300
Super resolution	—	√(800×600)
Pixel size	12μm	
Frame rate	≤25Hz	
Thermal sensitivity(NETD)	≤50mK @25°C	≤45mK @25°C
Focus	Manual Focus	
Field of view(FOV)	44.92°(H) × 33.42°(V)	29°(H) × 21.5°(V)
Measurement mode	Industrial & EST screening	
Temperature measurement range	-20°C~450°C	-20°C~550°C
Accuracy	Industrial: ±2° or ±2% whichever is greater (0°C~450°C) EST screening: ±0.5° (30°C~40°C)	Industrial: ±2° or ±2% whichever is greater (-10°C~550°C) EST screening: ±0.5° (30°C~40°C)
Functions		
On screen analyzer	3 Points/3 Lines/3 Rectangles	5 Points/1 Lines/3 Rectangles/3 Circles
HI/LO temperature alarm	LCD animation & Buzzer	
HI/LO temperature tracking	√	
Video recording	√	
Isotherm	Auto/Below/Above/Section/Manual	
General Characteristics		
USB	Type-C	
Image/video storage format	JPEG/MP4	
Certificates	CE, UKCA, FCC, RoHS	CE, FCC, RoHS
Languages	ZH, EN, FR, DE, IT, ES, SV	ZH, EN, FR, DE, IT, ES, SV, PL, CZ
Product net weight	30g	46g
Product size	29.5mm×24.5mm×29.5mm	58mm×27mm×28.6mm
Packing Details		
Standard accessories	Type-C extension cable, Hand Strap, Cleaning Cloth, Cloth Bag, English manual, Documents Download Operation Guide	Type-C extension cable, Hand Strap, Cleaning Cloth, Cloth Bag, Quick Start Guide, 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	7.2kg

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.



Portable Thermal Camera



UTI120P



UTI120T



UTI720T

Models			
Technical Data			
Temperature measurement range	-20 C~400 C	-20 C~400 C	-20 C~550 C
Accuracy	±2 C or ±2% whichever is greater	≥0 C, ±2 C or ±2% whichever is greater <0 C, ±5 C or ±5% whichever is greater	±2 C or ±2% whichever is greater
Functions			
Display	2.4" TFT (320×240)	3.5" TFT Touch (320×240)	3.5" TFT Touch (640×480)
IR resolution(Pixels)	120×90	120×90	256×192
Image mode	Thermal	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, T-Mix fusion, PIP
On screen analyzer	—	1 Point/1 Rectangle	5 Points/1 Line/ 3 Rectangles/ 3 Circles
Isotherm	—	Auto/Manual	Auto/Manual/Above/Below/Section/Ratio
HI/LO temperature alarm	LCD animation	LCD animation & LED flashlight	LCD animation & LED flashlight
HI/LO temperature tracking	√	√	√
Digital camera resolution	—	640×480	2MP
Video recording	—	—	√
Digital zoom	—	1.0~8× continuous	1.0~8× continuous
Wi-Fi/Wi-Fi live streaming	—	√/—	√
Smart meter	—	—	√
LED lighting	—	√	√
NFC	—	—	√
Analysis software	PC	PC+APP	PC+APP
General Characteristics			
Battery	1350mAh Rechargeable Li-ion battery	1800mAh Rechargeable Li-ion battery	1800mAh Rechargeable Li-ion battery
Operating time	≥3.5 hours	≥2 hours (with Wi-Fi off)	≥2.2 hours (with Wi-Fi off)
USB	Micro USB	Type-C	Type-C
Storage	32GB Micro SD card	Built-in 4GB	Built-in 12GB
Image storage format	BMP	JPG	JPG
Video storage format	—	—	AVI
Protection	1m drop proof	IP54 & 1m drop proof	IP54 & 1m drop proof
Certificates	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS
Languages	ZH,EN	ZH,EN	EN, FR, DE, ES, IT, SV, PL, CZ
Weight	125g	213g	213g
Dimension	76mm×76mm×24mm	133.05mm×85.4mm×24.1mm	133.05mm×85.4mm×24.1mm
Packing Details			
Standard accessories	Micro USB cable, Micro SD card, Hand Strap, Cloth Bag, English Manual	Type-C USB cable, Hand Strap, Cloth Bag, English Manual, Documents Download Operation Guide	Type-C USB cable, Hand Strap, Cloth Bag, Quick Start Guide, Documents Download Operation Guide
Standard individual packing	Gift box	Gift box	Gift box
Standard Qty per carton	5pcs	5pcs	5pcs
Standard carton size	455mm×145mm×150mm	370mm×250mm×170mm	370mm×250mm×170mm
Standard carton G.W.	2.2kg	3.6kg	3.6kg

Heavy Duty Thermal Camera



UTI712S



UTI716S

Models

Technical Data		
Display	2.4" TFT (320×240)	2.4" TFT (320×240)
IR resolution(Pixels)	120×90	160×120
Super resolution(Pixels)	—	√ (640×480)
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)	40°(H) × 30°(V)
Temperature measurement range	-20 C ~ 400 C	-20 C ~ 550 C
Accuracy	±2 C or ±2% whichever is greater	±2 C or ±2% whichever is greater
Functions		
Image mode	Thermal	Thermal, Visual image, T-Mix fusion, PIP
On screen analyzer	—	—
Temperature compensation	√	—
HI/LO temperature alarm	LCD animation, LED flashlight, Buzzer	LCD animation, LED flashlight, Buzzer
HI/LO temperature tracking	√	√
Digital camera resolution	—	2MP
Laser pointer/LED lighting	√	√
Analysis software	PC	PC
General Characteristics		
Battery	2600mAh rechargeable Li-ion battery	2600mAh rechargeable Li-ion battery
Operating time	≥8 hours	≥6 hours
USB	Type-C	Type-C
Storage	External SD card 32GB	Built-in 32GB
Image storage format	BMP	JPG
Protection	IP54 & 2m drop proof	IP54 & 2m drop proof
Certificates	CE, UKCA, FCC, RoHS	CE, FCC, RoHS
Languages	EN,FR,DE,ES,RU	EN,FR,DE,ES,IT,SV,PL,CZ
Weight	316g	326g
Dimension	197mm×72mm×60mm	197mm×72mm×60mm

Heavy Duty Thermal Camera



UTi85A



UTi165A



UTi165A+



UTi720A

Models

Technical Data				
Display	2.8" TFT (320×240)	2.8" TFT (320×240)	2.8" TFT (320×240)	2.8" TFT (320×240)
IR resolution(Pixels)	80×60	160×120	160×120	256×192
Super resolution(Pixels)	—	—	—	—
Pixel size	17μm	12μm	12μm	12μm
Frame rate	≤9Hz	≤9Hz	≤9Hz	≤25Hz
Thermal sensitivity(NETD)	≤150mK	≤50mk	≤50mk	≤50mK
Focus	Focus Free	Focus Free	Focus Free	Focus Free
Field of view(FOV)	51°(H) × 38°(V)	56°(H) × 42°(V)	56°(H) × 42°(V)	56°(H) × 42.2°(V)
Temperature measurement range	-10℃~400℃	-10℃~400℃	-10℃~400℃	-20℃~400℃
Accuracy	±2℃ or ±2% whichever is greater	±2℃ or ±2% whichever is greater	±2℃ or ±2% whichever is greater	±2℃ or ±2% whichever is greater
Functions				
Image mode	Thermal	Thermal	Thermal, Visual image, Fusion	Thermal
On screen analyzer	—	—	3 Points	3 Points
Temperature compensation	—	—	—	—
HI/LO temperature alarm	LCD animation, LED flashlight, Buzzer	LCD animation & LED flashlight	LCD animation & LED flashlight	LCD animation & LED flashlight
HI/LO temperature tracking	√	√	√	√
Digital camera resolution	—	—	640×480	—
Laser pointer/LED lighting	—/√	—/√	—/√	—/√
Analysis software	PC	PC	PC	PC
General Characteristics				
Battery	5000mAh rechargeable Li-ion battery	5000mAh rechargeable Li-ion battery	5000mAh rechargeable Li-ion battery	5000mAh rechargeable Li-ion battery
Operating time	≥6 hours	≥6 hours	≥7 hours	≥7 hours
USB	Type-C	Type-C	Type-C	Type-C
Storage	External SD card 32GB	External SD card 32GB	External SD card 32GB	External SD card 32GB
Image storage format	BMP	BMP	BMP	BMP
Protection	IP65 & 2m drop proof	IP65 & 2m drop proof	IP65 & 2m drop proof	IP65 & 2m drop proof
Certificates	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS
Languages	ZH,EN,FR,DE,IT,ES_US,ES_EU,PT_EU	ZH,EN	ZH,EN	EN,FR,DE,IT,ES,SV
Weight	490g	490g	490g	490g
Dimension	236mm×75.5mm×86mm	236mm×75.5mm×86mm	236mm×75.5mm×86mm	236mm×75.5mm×86mm

Heavy Duty Thermal Camera



UTI120B



UTI220B



UTI165B Max



UTI260B



UTI260B Max

Models					
	UTI120B	UTI220B	UTI165B Max	UTI260B	UTI260B Max
Technical Data					
Display	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)
IR resolution(Pixels)	120×90	200×150	160×120	256×192	256×192
Super resolution(Pixels)	—	—	√	—	√
Pixel size	17μm	12μm	12μm	12μm	12μm
Frame rate	≤25Hz	≤9Hz	≤25Hz	≤25Hz	≤25Hz
Thermal sensitivity(NETD)	≤60mK	≤100mK	≤50mK	≤60mK	≤50mK
Focus	Focus Free	Focus Free	Focus Free	Focus Free	Focus Free
Field of view(FOV)	50°(H) × 38°(V)	35°(H) × 26°(V)	50°(H) × 38°(V)	56°(H) × 42°(V)	56°(H) × 42°(V)
Temperature measurement range	-20 C ~400 C	-10 C ~400 C	-20 C ~550 C	-20 C ~550 C	-20 C ~550 C
Accuracy	±2 C or ±2% whichever is greater	±2 C or ±2% whichever is greater	±2 C or ±2% whichever is greater	±2 C or ±2% whichever is greater	±2 C or ±2% whichever is greater
Functions					
Image mode	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, T-Mix fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, T-Mix fusion, PIP
On screen analyzer	—	3 Points	3 Points	3 Points	3 Points
HI/LI temperature alarm	LCD animation, LED flashlight, Buzzer	LCD animation, LED flashlight, Buzzer	LCD animation, LED flashlight, Buzzer	LCD animation & LED flashlight	LCD animation, LED flashlight, Buzzer
HI/LO temperature tracking	√	√	√	√	√
Digital camera resolution	640×480	640×480	2MP	640×480	2MP
Video recording	—	—	√	—	√
Wi-Fi/Wi-Fi live streaming	—	—	√	—	√
LED lighting	√	√	√	√	√
Analysis software	PC	PC	PC+APP	PC	PC+APP
General Characteristics					
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
Operating time	≥6 hours	≥6 hours	≥8 hours	≥6 hours	≥7 hours
USB	Type-C	Type-C	Type-C	Type-C	Type-C
Storage	External SD card 32GB	External SD card 32GB	Built-in 16GB	External SD card 32GB	Built-in 32GB
Image/video storage format	BMP	BMP	JPG/MP4	BMP	JPG
Protection	IP65 & 2m drop proof	IP65 & 2m drop proof	IP65 & 2m drop proof	IP65 & 2m drop proof	IP65 & 2m drop proof
Certificates	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS
Languages	ZH, EN	ZH, EN	ZH, EN	ZH, EN	EN, FR, DE, IT, ES, SV, PL, CZ
Weight	490g	490g	600g	490g	600g
Dimension	236mm×75.5mm×86mm	236mm×75.5mm×86mm	236mm×75.5mm×86mm	236mm×75.5mm×86mm	236mm×75.5mm×86mm

Enhanced Thermal Camera



UTi32



UTi720E



UTi730E



UTi720V



UTi730V

Technical Data					
Display	2.4" TFT (320×240)	3.5" IPS (640×480)	3.5" IPS (640×480)	3.5" IPS Touch (640×480)	3.5" IPS Touch (640×480)
IR resolution(Pixels)	32×32	256×192	320×240	256×192	320×240
Pixel size	17μm	12μm	12μm	12μm	12μm
Frame rate	≤9Hz	≤25Hz	≤9Hz	≤25Hz	≤9Hz
Thermal sensitivity(NETD)	≤150mK	≤50mK	≤65mK	≤50mK	≤65mK
Focus	Focus Free	Focus Free	Focus Free	Focus Free	Focus Free
Field of view(FOV)	30°(H) × 30°(V)	56°(H) × 42.2°(V)	56°(H) × 42.2°(V)	56°(H) × 42.2°(V)	56°(H) × 42.2°(V)
Temperature measurement range	-20℃~1000℃	-20℃~550℃	-40℃~400℃	-20℃~550℃	-40℃~400℃
Accuracy	±2℃ or ±2% whichever is greater	±2℃ or ±2% whichever is greater	±2℃ or ±2% whichever is greater	±2℃ or ±2% whichever is greater	±2℃ or ±2% whichever is greater
Functions					
Image mode	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, T-Mix fusion, PIP	Thermal, Visual image, T-Mix fusion, PIP
On screen analyzer	—	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
Isotherm	—	Auto/Ratio/Below /Above/Section/Manual	Auto/Ratio/Below /Above/Section/Manual	Auto/Manual	Auto/Manual
HI/LO temperature alarm	LCD animation & LED flashlight	LCD animation & LED flashlight	LCD animation & LED flashlight	LCD animation & LED flashlight	LCD animation, LED flashlight, Buzzer
HI/LO temperature tracking	√	√	√	√	√
Digital camera resolution	300,000 pixels	2MP	2MP	5MP	5MP
Digital zoom	—	2x, 4x	2x, 4x	2x, 4x	2x, 4x
Video/voice recording	—	—	—	√	√
Wi-Fi/Wi-Fi live streaming	—	√/—	√/—	√	√
Laser pointer/LRF	—	—	—	√	√
LED lighting	√	√	√	√	√
Analysis software	—	PC+APP	PC+APP	PC+APP	PC+APP
General Characteristics					
Battery	2600mAh rechargeable Li-ion battery	5200mAh rechargeable Li-ion battery	5200mAh rechargeable Li-ion battery	5200mAh rechargeable Li-ion battery	5200mAh rechargeable Li-ion battery
Operating time	≥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)
USB	Type-C	Type-C	Type-C	Type-C	Type-C
Storage	16G Micro SD card	32GB Micro SD card	32GB Micro SD card	32GB Micro SD card	32GB Micro SD card
Image/video storage format	BMP	JPG	JPG	JPG/AVI	JPG/AVI
Protection	—	IP54 & 2m drop proof	IP54 & 2m drop proof	IP54 & 2m drop proof	IP54 & 2m drop proof
Certificates	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	EN, FR, DE, IT, ES, SV, PL, CZ	EN, FR, DE, IT, ES, SV, PL, CZ
Languages	ZH,EN	EN, FR, DE, ES, RU	EN, FR, DE, ES, RU	ZH,EN	EN,FR,DE,IT,ES,SV,PL,CZ
Weight	303.7g	654g	654g	654g	654g
Dimension	205mm×124mm×65mm	260mm×97mm×99mm	260mm×97mm×99mm	260mm×97mm×99mm	260mm×97mm×99mm
General Characteristics					
Standard accessories	Type-C USB cable, SD card, English Manual, Documents Download Operation Guide	Type-C USB cable, Micro SD card, Li-ion battery pack, English Manual, Documents Download Operation Guide	Type-C USB cable, Micro SD card, Li-ion battery pack, English Manual, Documents Download Operation Guide	Type-C USB cable, Micro SD card, Li-ion battery pack×2, Quick Start Guide, Documents Download Operation Guide	Type-C USB cable, Micro SD card, Li-ion battery pack×2, Quick Start Guide, Documents Download Operation Guide
Standard individual packing	Gift box	Toolbox & Gift box	Toolbox & Gift box	Toolbox & Gift box	Toolbox & Gift box
Standard Qty per carton	5pcs	1pcs	1pcs	1pcs	1pcs
Standard carton size	500mm×275mm×190mm	400mm×185mm×345mm	400mm×185mm×345mm	400mm×185mm×345mm	400mm×185mm×345mm
Standard carton G.W.	3.4kg	3.7kg	3.7kg	4kg	4kg

Enhanced Thermal Camera



UTI256G



UTI384G



UTI740H



UTI384J



UTI640J

Models	UTI256G	UTI384G	UTI740H	UTI384J	UTI640J
Technical Data					
Display	3.5" IPS Touch (640×480)	3.5" IPS Touch (640×480)	4.3" IPS (800×480)	4.3" LCD Touch (800×480)	4.3" LCD Touch (800×480)
IR resolution(Pixels)	256×192	384×288	384×288	384×288	640×480
Super resolution(Pixels)	—	—	—	√(768×576)	√(1280×960)
Pixel size	17μm	17μm	17μm	12μm	12μm
Frame rate	≤30Hz	≤30Hz	≤25Hz	≤30Hz	≤30Hz
Thermal sensitivity(NETD)	≤40mK	≤40mK	≤60mK	≤40mK	≤40mK
Focus	Manual Focus	Manual Focus	Manual Focus	Manual / Automatic / Touch autofocus / Continuous autofocus	Manual / Automatic / Touch autofocus / Continuous autofocus
Field of view(FOV)	50°(H) × 38°(V)	50°(H) × 38°(V)	35°(H) × 26°(V)	56°(H) × 42°(V)	56°(H) × 42°(V)
Temperature measurement range	-20 °C ~550 °C	-20 °C ~550 °C	-30 °C ~ 650 °C	Support auto-switching: -40°C~150°C, 0°C ~650°C 500°C ~2000°C (Optional Hi-temp. Lens)	Support auto-switching: -40°C~150°C, 0°C ~650°C 500°C ~2000°C (Optional Hi-temp. Lens)
Accuracy	±2 °C or ±2% whichever is greater	±2 °C or ±2% whichever is greater	±2 °C or ±2% whichever is greater	±2 °C or ±2% whichever is greater	±2 °C or ±2% whichever is greater
Functions					
Image mode	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, T-Mix fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP
On screen analyzer	3 Points/3 Lines /3 Rectangles/3 Circles	5 Points/5 Lines /5 Rectangles/5 Circles	5 Points/1 Line /5 Rectangles/5 Circles	10 Points/10 Lines /10 Rectangles/10 Circles	16 Points/16 Lines /16 Rectangles/16 Circles
Isotherm	Auto/Manual /Above/Below/Section	Auto/Manual /Above/Below/Section	Auto/Manual	Automatic, Semi-automatic, Manual	Automatic, Semi-automatic, Manual
Level & Span	—	—	—	√	√
Image outline	—	—	—	√	√
Panoramic stitching	—	—	—	√	√
HI/LO temperature alarm	LCD animation	LCD animation	LCD animation	LCD animation, LED flashlight, Buzzer	LCD animation, LED flashlight, Buzzer
HI/LO temperature tracking	√	√	√	√	√
All-round voice assistant	—	—	—	√	√
Annotation	Text & Voice	Text & Voice	—	Text, Voice, Image	Text, Voice, Image
Digital camera resolution	5MP	5MP	5MP	8MP	13MP
Digital zoom	2x, 4x	2x, 4x	2x, 4x	1.1x~10x	1.1x~20x
Video/voice recording	— / √	√	—	√	√
Wi-Fi / Wi-Fi live streaming	√	√	√ / —	√	√
Bluetooth/GPS	√ / —	√ / —	—	√	√
Laser pointer / LRF	—	—	—	√	√
LED lighting	√	√	—	√	√
Analysis software	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP
General Characteristics					
Battery	5200mAh rechargeable Li-ion battery	5200mAh rechargeable Li-ion battery	5200mAh rechargeable Li-ion battery	3350mAh rechargeable Li-ion battery	3350mAh rechargeable Li-ion battery
Operating time	Approx. 5 hours (with Wi-Fi off)	Approx. 5 hours (with Wi-Fi off)	Approx. 5 hours (with Wi-Fi off)	≥5 hours (with Wi-Fi off)	≥4 hours (with Wi-Fi off)
USB	Type-C	Type-C	Type-C	Type-C	Type-C
Storage	Built-in 8GB & 32GB Micro SD card	Built-in 8GB & 32GB Micro SD card	32GB Micro SD card	Built-in 64GB & 64GB Micro SD card	Built-in 64GB & 64GB Micro SD card
Image/video storage format	JPG	JPG/MP4 & IRGD	BMP	JPG/MP4 & .irgd	JPG/MP4 & IRGD
Protection	IP54 & 2m drop proof	IP54 & 2m drop proof	IP54 & 2m drop proof	IP54 & 2m drop proof	IP54 & 2m drop proof
Certificates	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS
Languages	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	CN, TC, EN, FR, DE, ES, IT, RU, PL, KR, PT, TR, TH, NO, CZ, HU, JP, AR	CN, TC, EN, FR, DE, ES, IT, RU, PL, KR, PT, TR, TH, NO, CZ, HU, JP, AR
Weight	880g	880g	806g	≤1.15KG (included standard lens & battery)	≤1.15KG (included standard lens & battery)
Dimension	261mm×104mm×97mm	261mm×104mm×97mm	266mm×126.7mm×136mm	292mm×125mm×125mm	292mm×125mm×125mm

Professional Thermal Camera



UTi641C



UTi1020C



UTi1280C

Models		UTi641C	UTi1020C	UTi1280C
Technical Data				
Display	5" LCD Touch (1920×1080)			
Eyepiece	OLED screen, 1920×1080			
IR resolution(Pixels)	640×512	1024×768	1280×1024	
Pixel size	12μm			
Frame rate	30Hz			
Thermal sensitivity(NETD)	≤30mK	≤25mK		
Focus	Manual / Automatic / Touch AF / Continuous AF			
Field of view(FOV)	25°(H) × 19°(V)			
Lens recognition	Automatic			
Temperature measurement range	Support auto-switching: -40°C~150°C, 0°C ~650°C 400°C ~2500°C (Optional HI Temp. Lens)	Support auto-switching: -40°C~150°C, 0°C ~800°C 400°C ~2500°C (Optional HI Temp. Lens)		
Accuracy	±1°C or ±1% whichever is greater			
Functions				
Image mode	Thermal, Visual image, Fusion, PIP			
On screen analyzer	30 Points/30 Lines /30 Rectangles/30 Circles	35 Points/35 Lines /35 Rectangles/35 Circles		
Level & Span	Automatic, Semi-automatic, Manual			
Image outline	√			
Panoramic stitching	√			
NFC connection	√			
Customized auxiliary button	√			
HI/LO temperature alarm	LCD animation, LED flashlight, Buzzer			
HI/LO temperature tracking	√			
All-round voice assistant	√			
Annotation	√			
Digital camera resolution	8MP+13MP	8MP+16MP		
Digital zoom	1.1x~40x	1.1x~50x		
Video/voice recording	√			
Wi-Fi/Wi-Fi live streaming	√			
Bluetooth	√			
GPS/E-compass	√			
Laser pointer/LRF	√			
LED lighting	√			
Analysis software	PC+APP			
General Characteristics				
Battery	Lithium-ion rechargeable battery			
Operating time	4 hours			
External interface	Type-C, DC (12V) , SD card slot, Micro HDMI, UNC ¼"-20 (Tripod mounting)			
Storage	Built-in (64 GB) and external SD card (128 GB and up to 256 GB)			
Image/video storage format	JPG (with temp info) / MP4 (without temp info) & Irgd (with temp info)			
Protection	IP54			
Weight	1.86kg (with battery)			
Dimension	191mm×171mm×118mm			
General Characteristics				
Standard accessories	Lens front and back cover, Lithium-ion battery (2 pcs), Desktop charger, Power adapter, Adapter plug (5 pcs) , TYPE-C USB cable, Micro HDMI cable, Type C to GE cable, SD card (128 GB) , Wrist strap, Shoulder strap, Carrying case, Safety box, Packaging list, Quick Start Guide, Data download card (analysis software & user manual), Certificate of approval, Factory certificate			
Standard individual packing	Toolbox & Gift box			
Standard Qty per carton	1pcs			

Portable Series

Handheld Thermal Cameras



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.

UTi120T/UTi720T

Pocket-sized Thermal Camera



Wi-Fi



Easy to carry



Touch screen



NFC



PC analysis software



Waterproof and dustproof



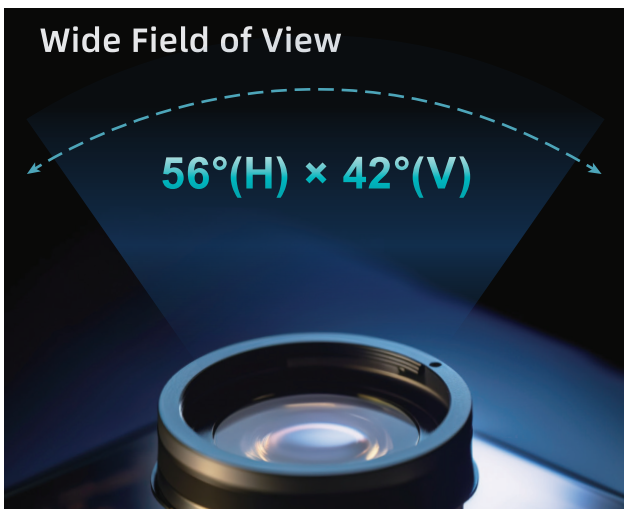
3.5" Large Touch Screen



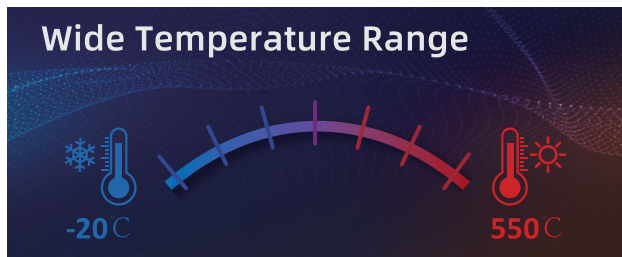
Compact & Pocket-sized



Wide Field of View



Wide Temperature Range

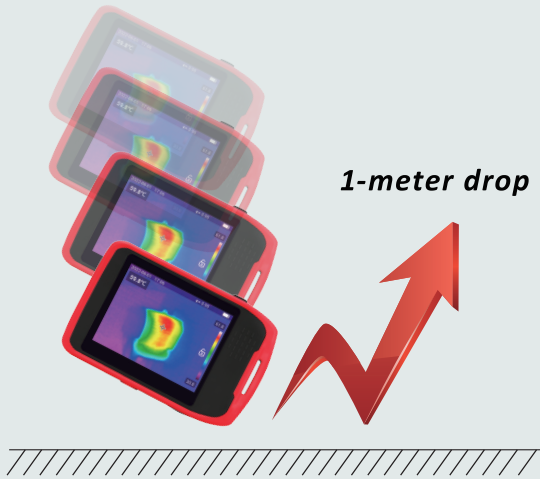


Frame Rate



1m Drop Proof

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



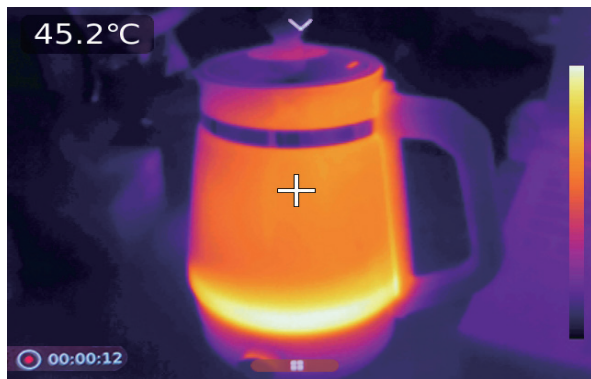
NFC

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.



Video Recording

Long-press camera button to start video recording.

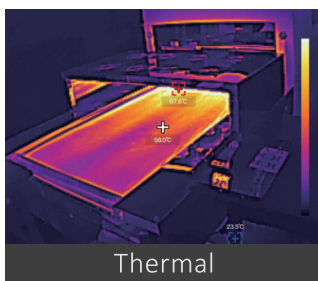


Wi-Fi Live Streaming

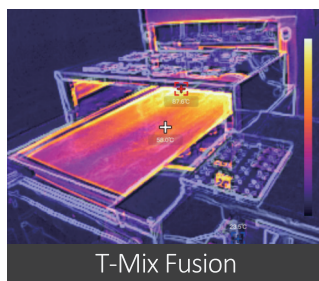
Real-time images projection



4 Image Modes



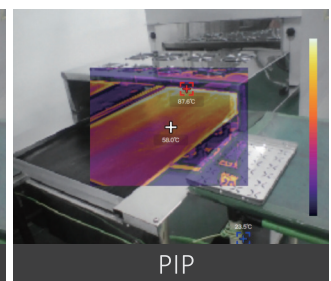
Thermal



T-Mix Fusion



Visual Image



PIP

Analysis Software

Connect PC software & mobile APP via USB cable and Wi-Fi connection to complete the analysis works.

- Photo Viewing & Download
- Data Analysis (PC only)
- Report Generation (PC only)

GET IT ON
Google Play

Download on the
App Store

QR codes for downloading the app:

- Android UTi120T
- Android UTi720T
- Apple UTi720T

Smart Meter

UTi720T supports to connect Clamp meter, Multimeter, and Humidity & temperature meter via Bluetooth, and the measurement data such as current, voltage, and humidity will simultaneously display on the display screen of thermal camera product.

Adapation Product List

- Clamp Meter: UT202BT
- Multimeter: UT61+ Series
- Humidity & temperature meter: UT333BT

Applications



PCBA Inspection

Motor Inspection

Mechanical Equipment

Electrical Equipment

Specifications

Model No.	UTi120T	UTi720T
Product Photo		
Technical Data		
Display	3.5" TFT Touch (320x240)	3.5" TFT Touch (640x480)
IR resolution(Pixels)	120x90	256x192
Pixel size	17μm	12μm
Frame rate	≤25Hz	
Thermal sensitivity(NETD)	≤60mK	≤50mK
Focus	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% whichever is greater <0°C, ±5°C or ±5% whichever is greater	±2°C or ±2% whichever is greater
Functions		
Image mode	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, T-Mix fusion, PIP
On screen analyzer	1 Point/1 Rectangle	5 Points/1 Line/ 3 Rectangles/ 3 Circles
Isotherm	Auto/Manual	Auto/Manual/Above/Below/Section/Ratio
HI/LO temperature alarm	LCD animation & LED flashlight	
HI/LO temperature tracking	√	
Digital camera resolution	640x480	2MP
Digital zoom	1.0~8× continuous	
Video recording	—	√
Wi-Fi/Wi-Fi live streaming	√/—	√
Smart meter	—	√
NFC	—	√
LED lighting	√	
Analysis software	PC+APP	
General Characteristics		
Battery	1800mAh rechargeable Li-ion battery	
Operating time	≥2 hours (with Wi-Fi off)	
USB	Type-C	
Storage	Built-in 4GB	Built-in 12GB
Image/video storage format	JPEG	JPEG / AVI
Protection	IP54 & 1m	
Certificates	CE, FCC, RoHS	
Languages	ZH, EN	EN, FR, DE, ES, IT, SV, PL, CZ
Weight	213g	
Dimension	133mm×85mm×24mm	
Packing Details		
Standard accessories	Type-C USB cable, Hand Strap, Cloth Bag, English Manual, Documents Download Operation Guide	Type-C USB cable, Hand Strap, Cloth Bag, Quick Start Guide, 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 are affordable professional tools for building & HVAC, electrical, mechanical, facilities maintenance and other applications.



UTi260B

Heavy Duty Thermal Camera

25Hz

Frame rate



Digital camera



On screen analyzer



Buzzer



LED lighting



PC software analysis



Waterproof and dustproof



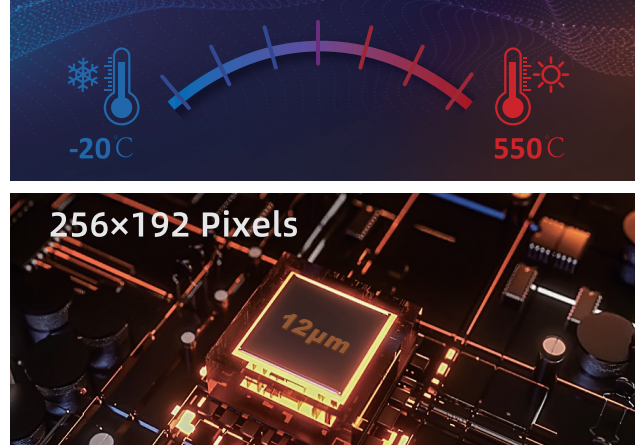
2m drop proof



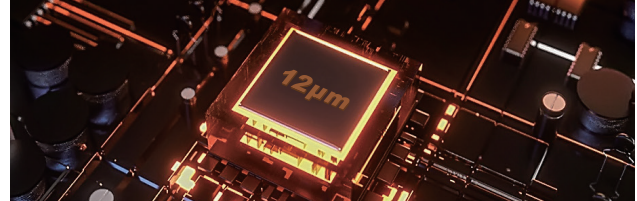
Wide Field of View



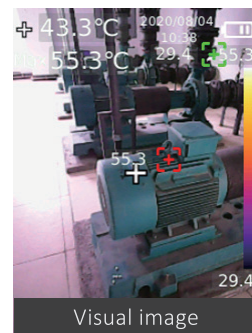
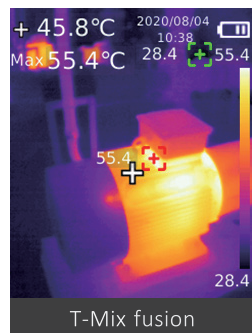
Wide Temperature Range



256×192 Pixels



4 Image Modes



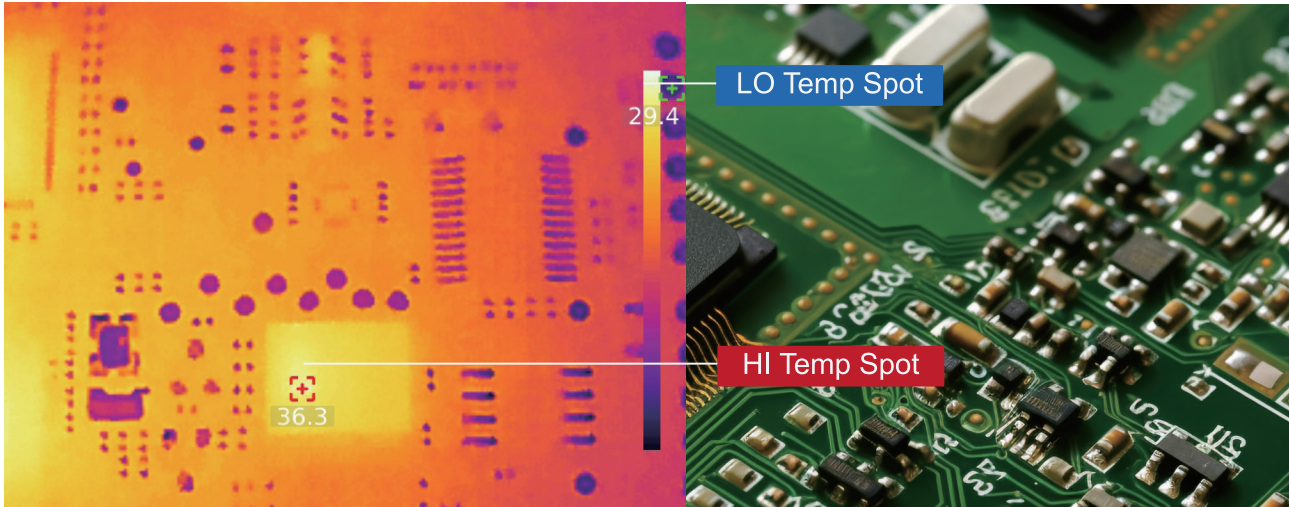
Analysis Software

Providing you with one-stop functionality to meet the data analysis workflow.

- Photo Browsing
- Secondary Editing & Analysis
- Real-time Images Projection
- Temperature Alert
- Auto Log Capturing
- Report Generation



Marco Mode



LO Temp Spot

HI Temp Spot

36.3


29.4

Marco Lens Model No.: **UT-Z002**
Optimal distance: **40mm**

Applications



Specifications

Model No.	UTi260B
Product Photo	
Technical Data	
Display	2.8" TFT (320×240)
IR resolution(Pixels)	256×192
Super resolution(Pixels)	X
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% whichever is greater
Functions	
Image mode	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
Video recording	X
Wi-Fi/Wi-Fi live streaming	X
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/video storage format	JPG/MP4
Protection	IP65 & 2m drop proof
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, 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

UTi165B Max/UTi260B Max

Heavy Duty Thermal Camera



Super resolution



Video recording



T-Mix



Digital camera



Wi-Fi



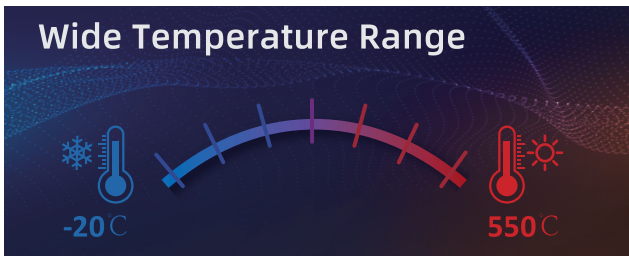
Multi-languages



Waterproof and dustproof

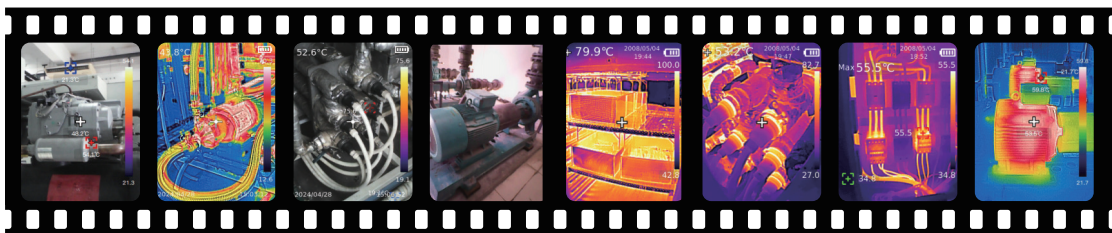


2m drop proof



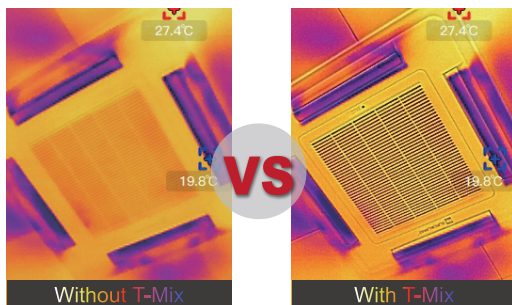
Video Recording

Support to take videos in MP4 format for real-time monitoring the temperature changes of the targets. Allows to check videos on the device local.



Wi-Fi Connectivity

Connect mobile devices to "Thermal Link" APP via Wi-Fi to complete one-stop operation E.g. photo browsing & download, real-time image projection, secondary editing & analysis, reverse control, and report generation.



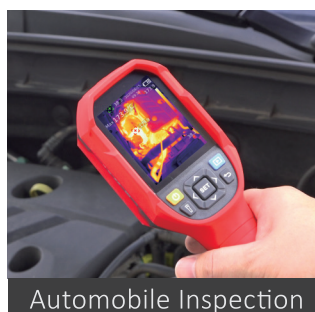
Adopting the brand new self-developed T-Mix 2.0 adaptive dual-light image fusion algorithm technology. Extracting the details such as text & outline from the visual image and injecting into thermal image for obtaining a visualized image, improving troubleshooting efficiency.

Super Resolution


Enable Super resolution to obtain images with improved quality.



Applications



Specifications

Model No.	UTi165B Max	UTi260B Max
Product Photo		
Technical Data		
Display	2.8" TFT (320×240)	
IR resolution(Pixels)	160×120	256×192
Super resolution(Pixels)	√	
Pixel size	12μm	
Frame rate	≤25Hz	
Thermal sensitivity(NETD)	≤50mK	
Focus	Focus Free	
Field of view(FOV)	40°(H) × 30°(V)	56°(H) × 42°(V)
Temperature measurement range	-20C~550C	
Accuracy	±2C or ±2% whichever is greater	
Functions		
Color palettes	White Hot, Black Hot, Red Hot, Ironbow, Lava, Rainbow, Rainbow HC	
Image mode	Thermal, Visual image, T-Mix fusion, PIP	
On screen analyzer	3 Points	
HI/LO temperature alarm	LCD animation, LED flashlight & Buzzer	
HI/LO temperature tracking	√	
Digital camera resolution	2MP	
Video recording	√	
Wi-Fi/Wi-Fi live streaming	√	
LED lighting	√	
Analysis software	PC+APP	
General Characteristics		
Battery	5000mAh rechargeable Li-ion battery	
Operating time	≥8 hours	≥7 hours
USB	Type-C	
Storage	Built-in 16GB	Built-in 32GB
Image/video storage format	JPG / MP4	
Protection	IP65 & 2m drop proof	
Certificates	CE, FCC, RoHS	
Languages	EN, FR, DE, IT, ES, SV, PL, CZ	
Weight	600g	
Dimension	236mm×75.5mm×86mm	
Packing Details		
Standard accessories	Type-C USB cable, Quick Start Guide, Download Operation Guide	
Standard individual packing	Gift box	
Standard Qty per carton	10pcs	
Standard carton size	500mm×315mm×295mm	
Standard carton G.W.	11.2kg	

UTi712S/UTi716S

Cost Effective Thermal Camera



-20°C~550°C



Multi-languages



Laser pointer



Buzzer alarm



Ultra-Long operating time



PC software analysis



Waterproof and dustproof



2m drop proof

Multi-language OS



Wide Temperature Range



Frame Rate



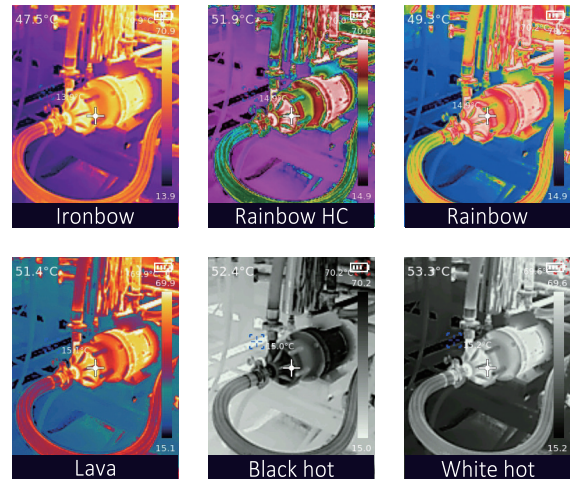
4-Buttons Design

Easy to use, and convenient for one-handed operation

Laser Pointer & LED Lighting

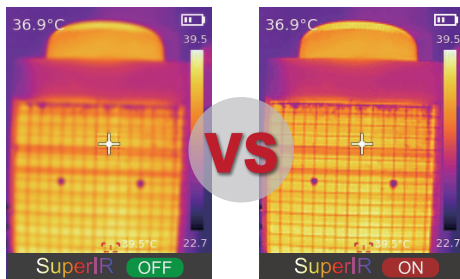


6 Color Palettes



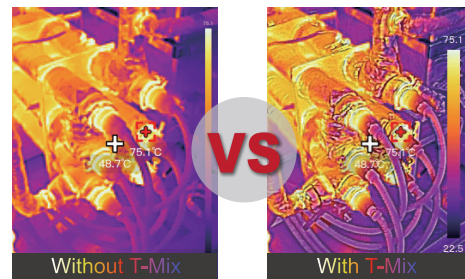
Super Resolution

With the blessing of Super resolution technology, the quality of infrared image can be improved in 4x.

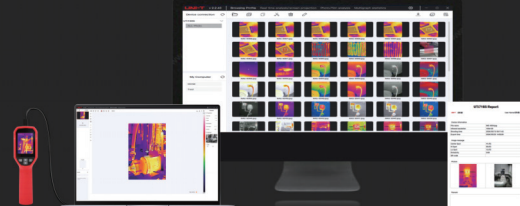


T-Mix Fusion Algorithm

Inject the visible light details without weakening the quality of thermal image.




Connect "UTi Thermal" PC analysis software for photo browsing, secondary editing & analysis, and report generation. Helps users to draw up a targeted solution.



Applications



Specifications

Model No.	UTi712S	UTi716S
Product Photo		
Technical Data		
Display	2.4" TFT (320×240)	
IR resolution(Pixels)	120×90	160×120
Super resolution(Pixels)	—	√ (320×240)
Pixel size	17μm	12μm
Frame rate	≤25Hz	
Thermal sensitivity(NETD)	≤60mK	≤50mK
Focus	Focus Free	
Field of view(FOV)	50°(H) × 38°(V)	40°(H) × 30°(V)
Temperature measurement range	-20°C~400°C	-20°C~550°C
Accuracy	±2°C or ±2% whichever is greater	
Functions		
Image mode	Thermal	Thermal, Visual image, T-Mix fusion, PIP
HI/LO temperature alarm	LCD animation, LED flashlight, Buzzer	
HI/LO temperature tracking	√	
Digital camera resolution	—	2MP
Temperature compensation	√	—
Laser pointer	√	
LED lighting	√	
Analysis software	PC	
General Characteristics		
Battery	2600mAh rechargeable Li-ion battery	
Operating time	≥8 hours	≥6 hours
USB	Type-C	
Storage	32GB Micro SD card	Built-in 32GB
Image storage format	BMP	JPG
Protection	IP54 & 2m drop proof	
Certificates	CE, UKCA, FCC, RoHS	CE, FCC, RoHS
Languages	EN, FR, DE, ES, RU	EN, FR, DE, ES, IT, SV, PL, CZ
Weight	316g	326g
Dimension	197mm×72mm×60mm	
Packing Details		
Standard accessories	Type-C USB cable, Hand Strap, English Manual, Micro SD card, Documents Download Operation Guide	Type-C USB cable, Hand Strap, Quick Start Guide, 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. Features a high-definition large screen, providing a superior visual experience. It comes with the detachable batteries to ensure the products last for extended period of use. The built-in system functions have been significantly enhanced, with additions such as isotherm, digital zoom, video recording, laser ranging, etc. All aimed at improving work efficiency. Furthermore, supports to connect Thermal Link via the built-in WiFi module to realize various functions E.g. photo browsing, secondary editing, data analysis, and report generation. Enhanced series products are the handy tools widely used in industrial scenarios.



Large display



Digital camera



Manual focus



Wi-Fi



Interchangeable Lens



Isotherm



Digital zoom



Snap-on battery

UTi720E/UTi730E

Handheld Thermal Camera



3.5" IPS screen
(640x480)



IR resolution
320 x 240



-40°C~400°C



Wi-Fi



Snap-on battery



Multi-languages



Flexible Isotherm



On screen analyzer



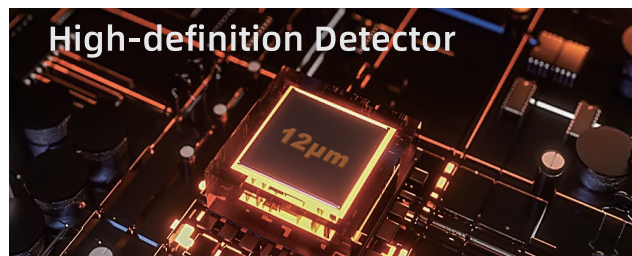
Large Display Screen



Wide Temperature Range



High-definition Detector



Scan QR code below to download & install "Thermal Link" APP for photos transmission, secondary editing, data analysis, and report generation.



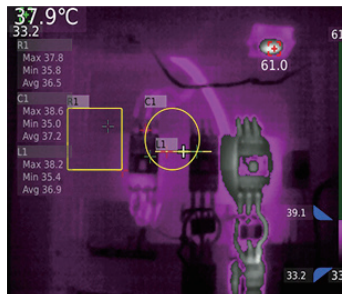
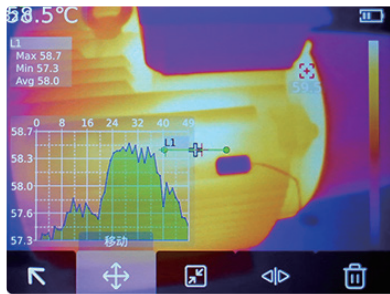
GET IT ON
Google Play



Download on the
App Store

Flexible Isotherm

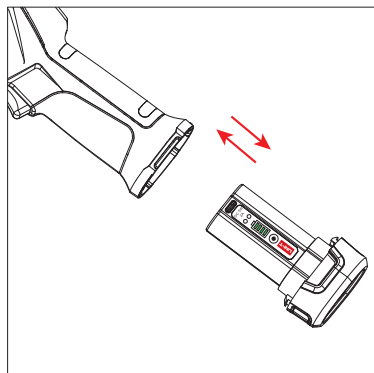
Isotherm is an effective way of alerting temperature. Users can quickly observe temperature of interest through setting the isotherm range. Including 6 Isotherm modes:Auto, Ratio, Below, Above, Section, Manual.



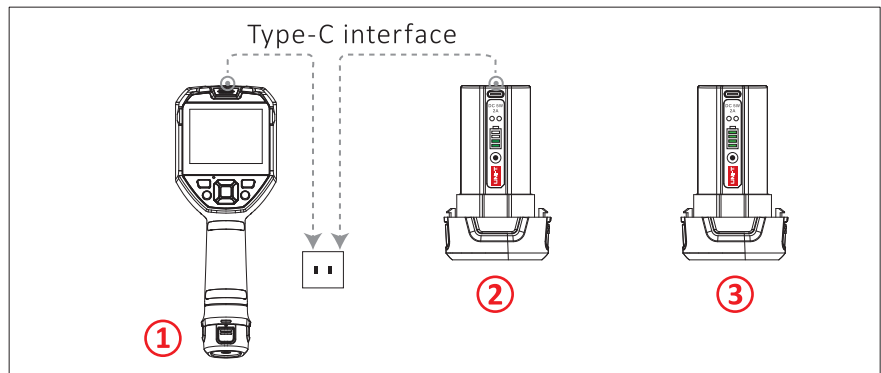
On Screen Analyzer

User-defined measurement tools, supports to add extra 5 points/1 line/3 rectangles/3 circles analysis graphics

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



Electrical Equipment



Mechanical Equipment




Solar panel 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% whichever is greater	
Functions		
Image mode	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

Handheld Thermal Camera



Touch screen



5MP digital camera



Wi-Fi live streaming



Laser ranging



On screen analyzer



Video recording



Voice recording



Buzzer alarm

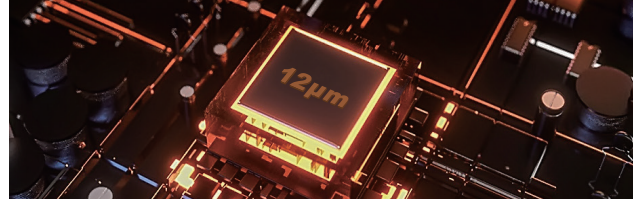
3.5" Capacitive Touch Screen



Wide Temperature Range



High-definition Detector



Supports to reversely control the device through mobile APP. Complete the measurement work within the safe range to avoid any danger caused by high voltage/temperature.



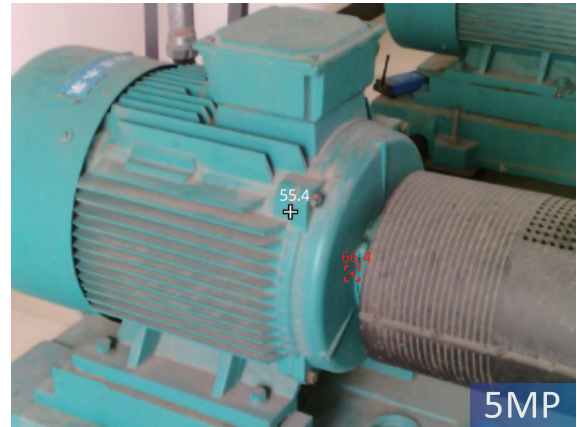
GET IT ON
Google Play



Download on the
App Store



Imaging Effect



Laser Ranging

With a built-in laser pointer for target positioning and distance measurement



T-Mix Fusion Algorithm

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

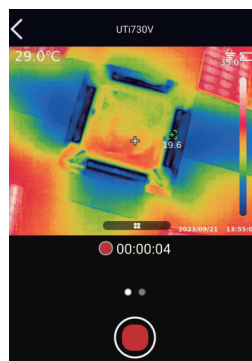


Video Recording

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



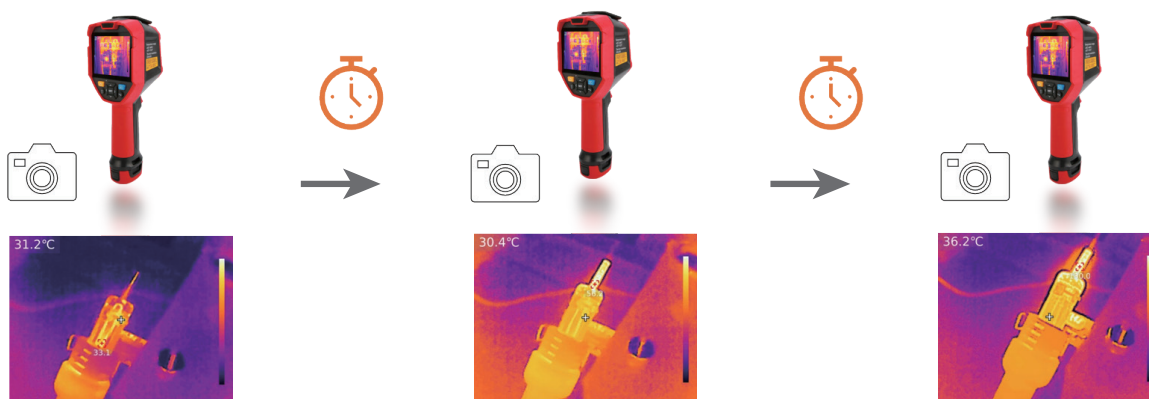
Device interface



APP interface

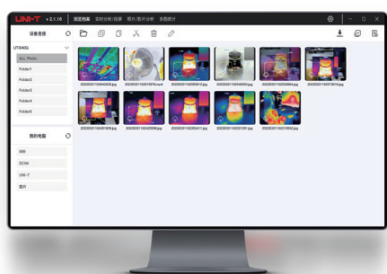
Automagical Routine Inspection

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



Reverse Control

Reversely control 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% whichever is greater	
Functions		
Image mode	Thermal, Visual image, T-Mix fusion, 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/LRF	√	
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	

UTi256G/UTi384G

Handheld Thermal Camera



Manual focus



3.5" IPS touch screen



5MP digital camera



Laser pointer



Annotation



Video recording



Wi-Fi live streaming



PC software analysis



Manual Focus

Features a focusing ring for obtaining more accurate results, fearless of different measurement distance.



Laser Pointer & LED Lighting

For overcoming the difficulties of target positioning and insufficient lighting in harsh situations.



Storage Upgrade

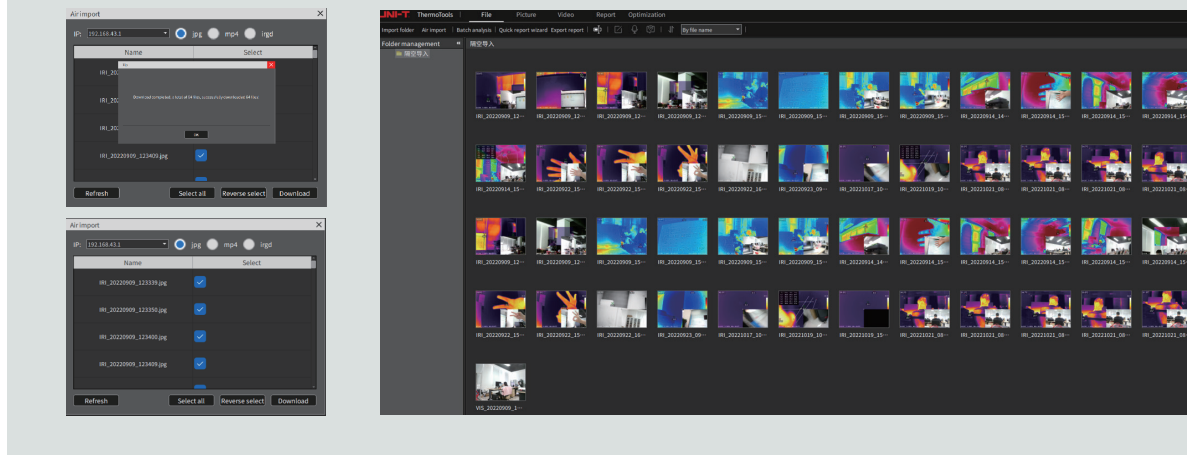
With built-in 8GB and external 32GB SD card



Analysis Software

Air Import

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



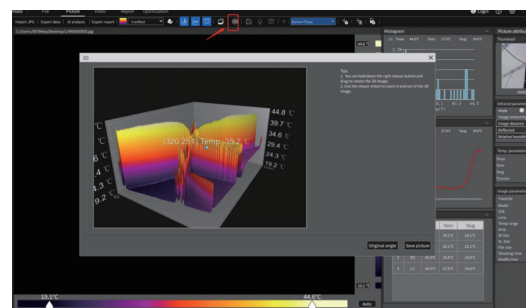
Wi-Fi Live Streaming

Transmitting real-time image to multiple devices simultaneously.



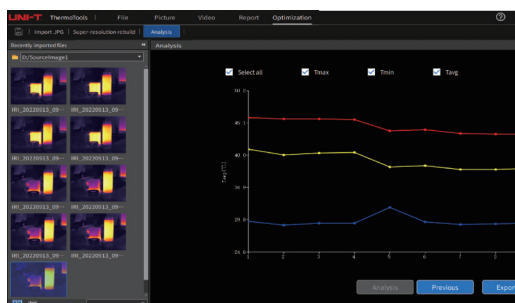
3D Mode

Convert IR image to 3D mode directly.



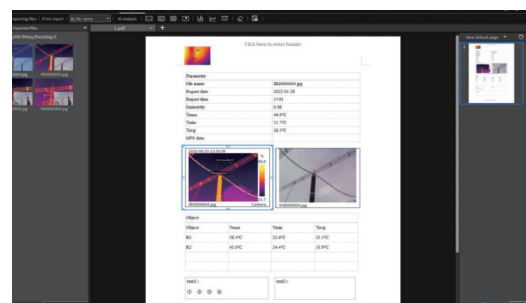
Trend Analysis

Generate the corresponding trend analysis charts.



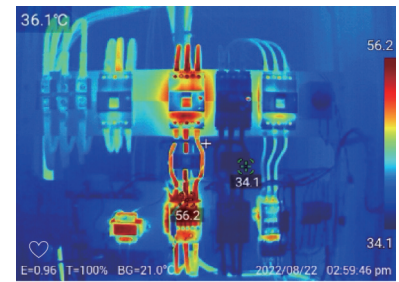
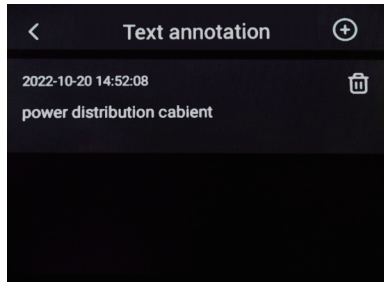
Report Generation & Printing

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



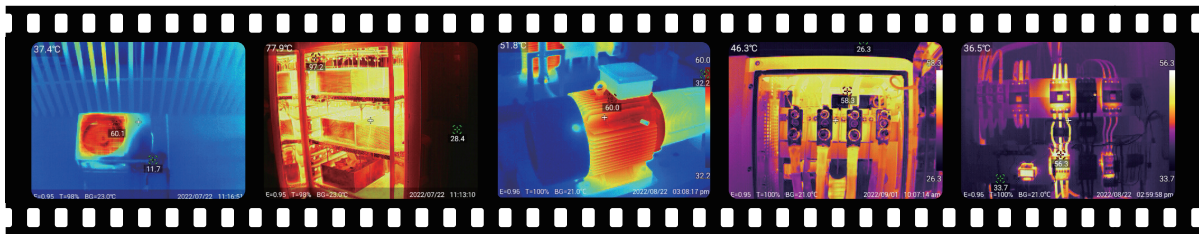
Text & Audio Annotation

Adding text or audio annotations to get rid of the complexity of taking notes by hand, improving the working efficiency.



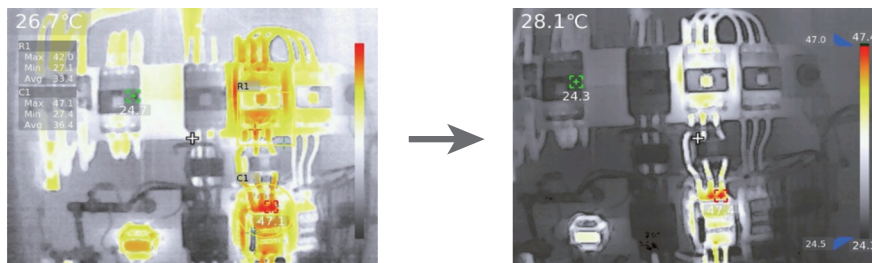
Video Recording

Take videos in MP4 or .irgd (with radiometric data) format. Providing accurate measurement result support for drawing up the targeted solution.



Flexible Isotherm


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



Applications



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% whichever is greater	
Functions		
Image mode	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	Built-in 8GB and external 32GB 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

Handheld Thermal Camera



-30°C~650°C



IR resolution



4.3" IPS screen
(800×480)



Manual focus



5MP digital camera



Wi-Fi



Multi-languages



Snap-on battery

Large Display Screen



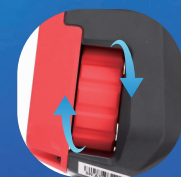
Wide Temperature Range



High-definition Detector



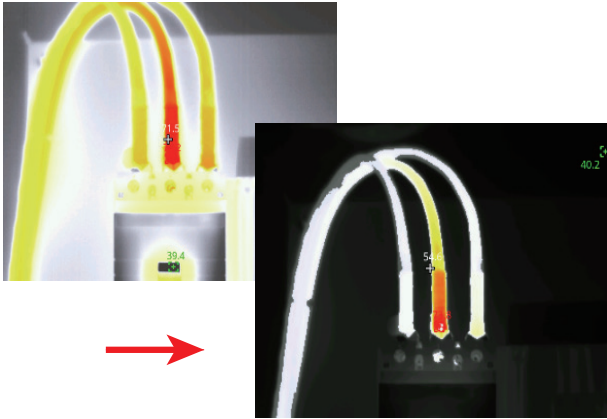
Adjust the focusing ring manually until the imaging gets clear, meet the measurement requirements at different distances, more accurate results obtained.



Manual Focus

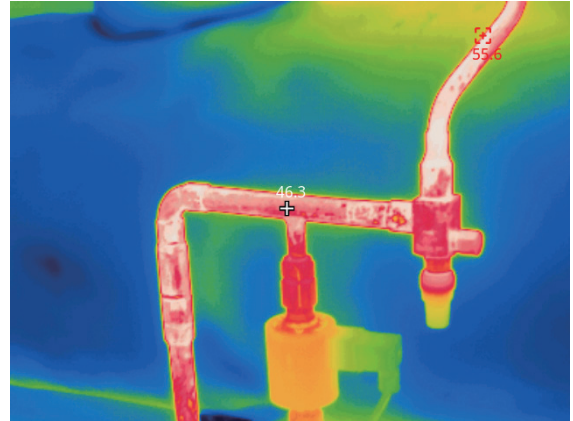
Flexible Isotherm

Customize temperature span to highlight the areas that you wanna focus on to quickly locate and recognize the potential problems.



Brilliant Image Quality

Features a high-definition Vox detector with 384×288 pixels and 25Hz refresh rate, providing smooth and vivid images.



PC Software/APP

Scan QR code below to download & install "Thermal Link" APP for photos transmission, secondary editing, data analysis, and report generation.



Applications



Power Equipment



Solar panel inspection




Welding



Electrical Equipment










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% whichever is greater
Functions	
Image mode	Thermal, Visual image, T-Mix fusion, 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

UTi384J/UTi640J

Handheld Thermal Camera



-  Interchangeable Lens
-  Multiple focus modes
-  Super resolution
-  Laser ranging
-  Color palettes
-  Digital zoom
-  Video recording
-  Annotation
-  AI voice
-  Wi-Fi

4.3" Capacitive Touch Screen

Wide Temperature Range

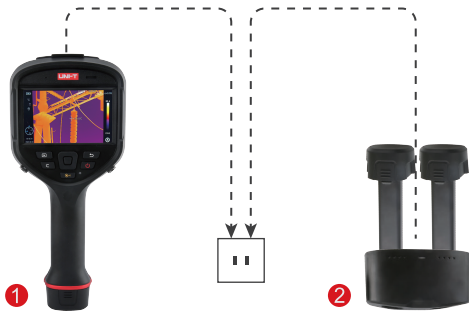
High-definition Detector

Dual-light Video Recording

- Supports recording visual & infrared videos simultaneously.
- Videos recorded in MP4 & Irgd (with radiometric data) format.
- Hi-res digital camera for clearer image quality.

Charging Modes

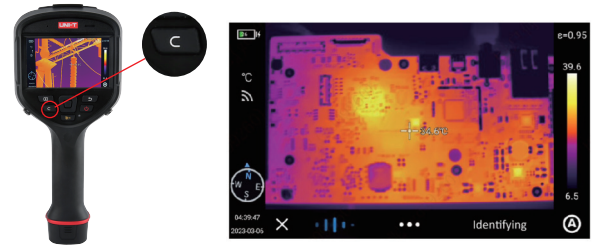
- 1 Charging the device directly
- 2 Charging the battery independently



Intelligent Assistant

Auxiliary Button--Quickly call up functions through pressing "C" button slightly.

All-around Voice Assistant--Perform operations through identifying AI voice command.

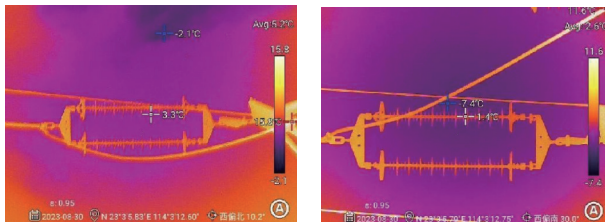


Auxiliary Button

All-around Voice Assistant

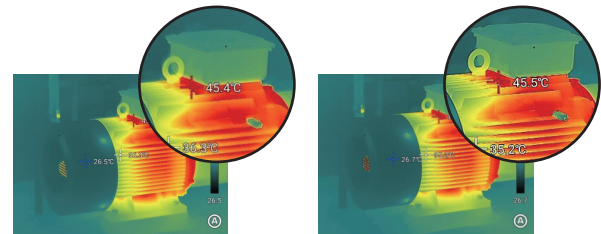
Focus Modes

Focusing the targets in different measurement distances at a breakneck speed, saving operating time and improving the working efficiency by obtaining sharper images with accurate temperature data.



Super Resolution

Enhance image details via the algorithm, the image quality can be improved in 4x after Super-resolution is enabled.



Original Resolution (640×480)

Super-resolution (1280×960)

Laser Raging

An integrated laser distance meter is a tool that can estimate the straight-line distance between the machine and the target, which can be analyzed for various purposes.



Interchangeable lens

UTi384J

UT-Z018



6.0mm, F/1.0
Wide-angle Lens 44°×34°

UT-Z019



17.5mm, F/1.0
Medium-tele Lens 15°×11°

UT-Z020



37.5mm, F/1.0
Tele Lens 7°×5°

UT-Z021



500 C-2000 C
HI Temp Lens 25°×19°

UT-Z022



10.5mm, F/1.0
Standard Lens 25°×19°



UTi640J

UT-Z006



16.2mm, F/1.1
Marco Lens

UT-Z007



10.0mm, F/1.1
Wide-angle Lens 44°×34°

UT-Z008



29.0mm, F/1.1
Medium tele Lens 15°×11°

UT-Z009



62.9mm, F/1.3
Tele Lens 7°×5°

UT-Z010



500 C-2000 C, F/1.0
High-Temp Lens 25°×19°

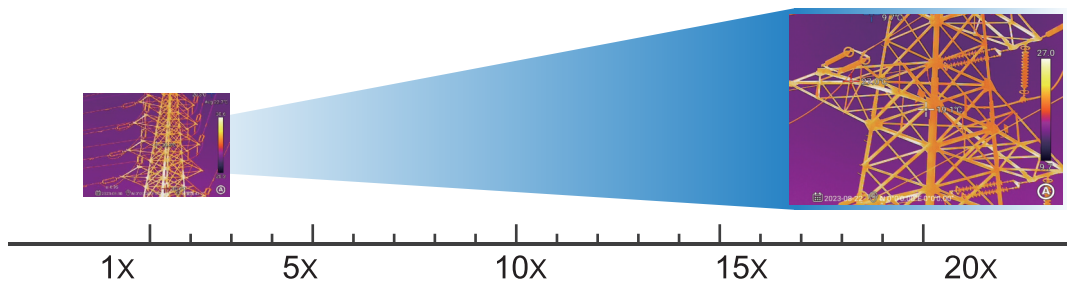
UT-Z011



17.7mm, F/1.0
Standard Lens 25°×19°

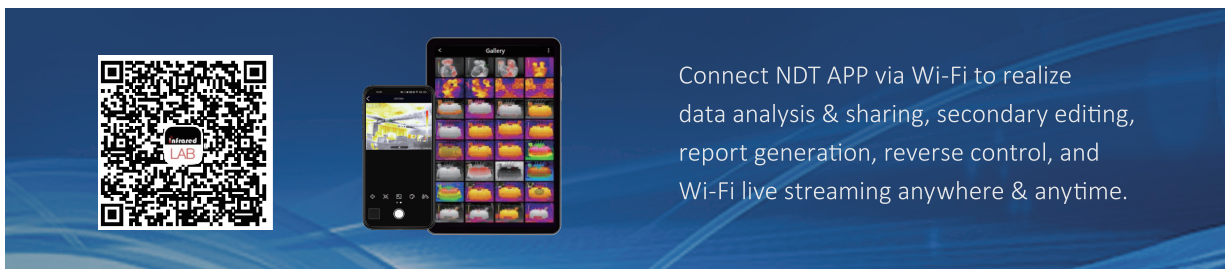
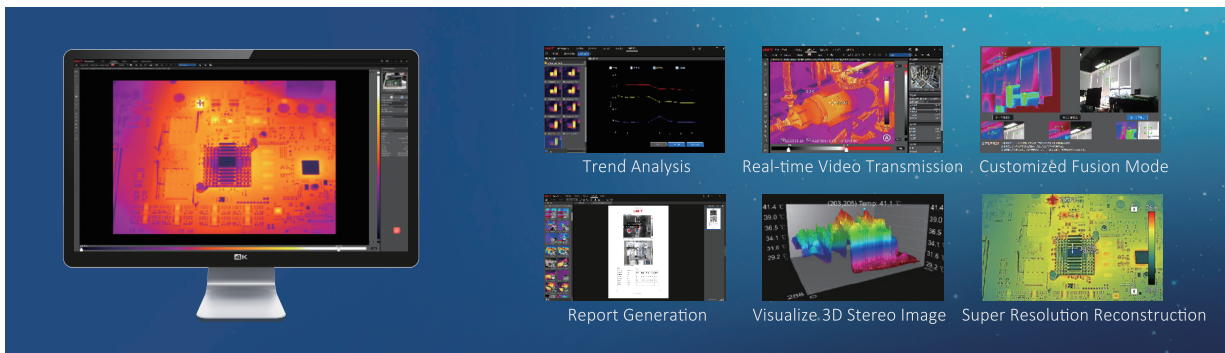
Digital Zoom

Swipe outward on the screen via two fingers to zoom in image, magnification times up to 20x.



Diversified Workflow

UNI-T Analyzer is a professional software for PC analysis. It has a user-friendly interface and allows users to perform in-depth analysis and batch processing of collected data. The analysis report provided by the software is convincing and helps users to draw up a targeted solution.



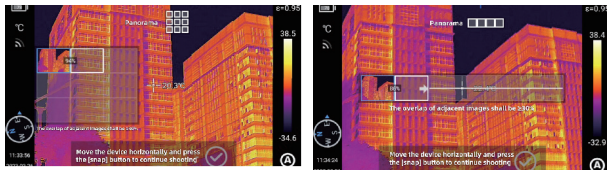
Annotation

Rapidly notes the important information through the methods such as text annotation, voice annotation, and QR code scanning instead of the handwritten records, for better reviewing & analyzing data at the late stage.



Panoramic Stitching

On the basis of retaining the image quality and details, multiple IR images are combined into a panoramic image, assisting users to globally observe the temperature differences.



Gridview Stitching

Horizontal Stitching

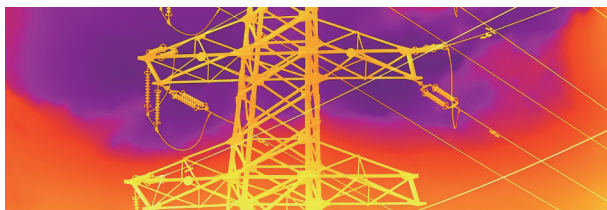
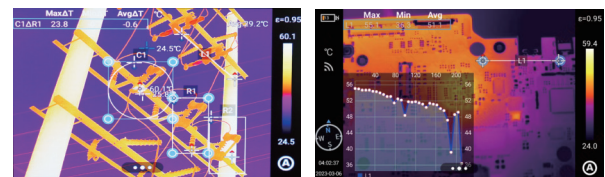


Image Analysis

On Screen Analyzer

Add custom analysis tools for monitoring the areas you are interested in.



Real-time Analysis

Temperature Differences Comparison

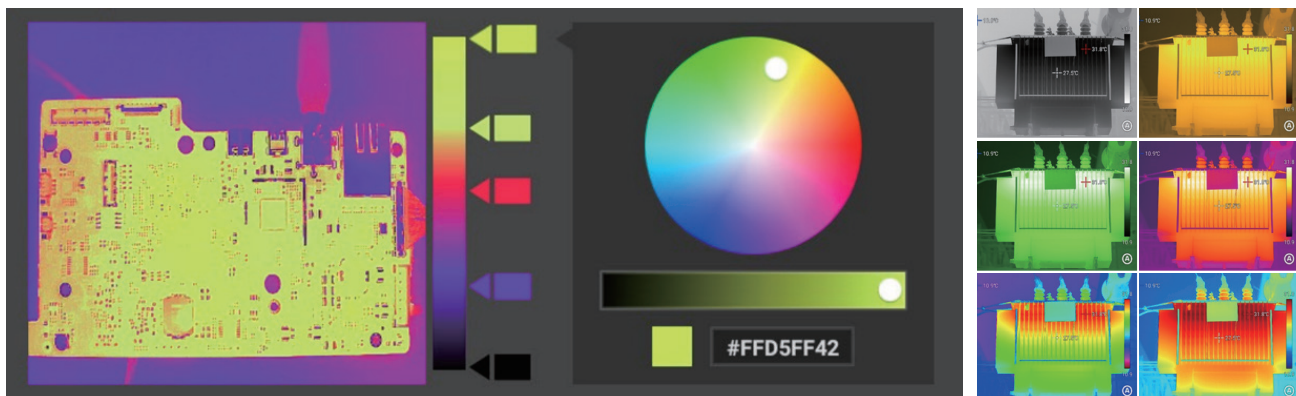
Image Outline

Manually draw the outline for the areas, and system will automatically align & enclose it for more accurate results.




Rich Color Palettes

With 15 sets built-in standard color palettes, supports to customize color palette scheme.



Specifications

Model No.	UTi384J	UTi640J
Product Photo		
Technical Data		
Display	4.3" LCD Touch (800x480)	
IR resolution(Pixels)	384x288	640x480
Super resolution(Pixels)	√(768x576)	√(1280x960)
Pixel size	12μm	
Frame rate	30Hz	
Thermal sensitivity(NETD)	≤40mK	
Focus	Manual / Automatic / Touch AF / Continuous AF	
Lens focal length	10.5mm	17.7mm
Field of view(FOV)	25°(H) × 19°(V)	
Temperature measurement range	Support auto-switching: -40°C~150°C, 0°C ~650°C 500°C ~2000°C (Optional HI-temp. Lens)	
Accuracy	±2°C or ±2% whichever is greater	
Functions		
Image mode	Thermal, Visual image, Fusion, PIP	
On screen analyzer	10 Points/10 Lines/10 Rectangles/10 Circles	16 Points/16 Lines/16 Rectangles/16 Circles
Isotherm	Automatic, Semi-automatic, Manual	
Level & Span	√	
Image outline	√	
Panoramic stitching	√	
HI/LO temperature alarm	LCD animation, LED flashlight, Buzzer	
All-round voice assistant	√	
Annotation	Text, Voice, Image	
Digital camera resolution	8MP	13MP
Digital zoom	1.1x~10x	1.1x~20x
Video/voice recording	√	
Wi-Fi/Wi-Fi live streaming	√	
Bluetooth/GPS	√	
Laser pointer/LRF	√	
LED lighting	√	
Analysis software	PC+APP	
General Characteristics		
Battery	3350mAh detachable Li-ion battery pack	
Operating time	≥5 hours (with Wi-Fi off)	≥4 hours (with Wi-Fi off)
USB	Type-C	
Storage	Built-in 64GB & 64GB Micro SD card	
Image/video storage format	JPEG/MP4 & .irgd	
Protection	IP54 & 2m drop proof	
Certificates	CE, UKCA, FCC, RoHS	
Languages	CN, TC, EN, FR, DE, ES, IT, RU, PL, KR, PT, TR, TH, NO, CZ, HU, JP, AR	
Weight	≤1.15KG (included standard lens & battery)	
Dimension	292mm×125mm×125mm	
Packing Details		
Standard accessories	Li-ion battery pack x2, Charging Base, Lens front and back cover, Power adapter (US/CN), Adapter plug (EU/UK/AU), Wrist strap, Shoulder strap, Type-C to C charger cable, Type-C USB cable, Ethernet cable, Type-C to RJ45, SD card (64GB), Quick start guide, Accessories list card	
Standard individual packing	Toolbox & Gift box	
Standard Qty per carton	1pcs	
Standard carton size	500mm×260mm×420mm	

UTi32

High Temperature Thermal Camera

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



-20°C~1000°C



Digital camera



Ultra-long battery life



Temperature alert



LED lighting

The max.
1000°C

Temperature Alert

Display an alert animation on screen while the measured data exceeds the preset alert threshold.



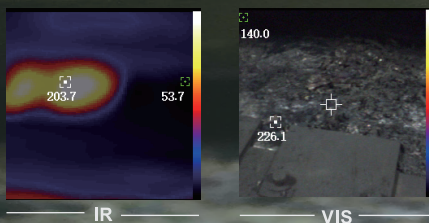
LED Lighting

Supplement lighting for low-brightness environment, help users recognize the actual situations.



Dual-light Image

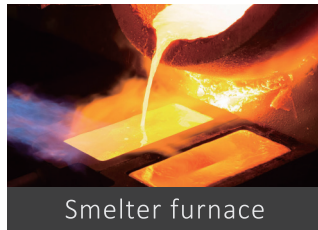
Equipped with a 300,000 pixels visible light lens and an infrared lens for taking visual images and thermal images simultaneously, convenient for post analysis and comparison of the measurement results.



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% whichever is greater
Functions	
Image mode	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	205mm×124mm×65mm
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

C series intelligent high-end infrared thermal cameras feature a high-definition Vox infrared detector. This series products have A/M-focus system to provide much more crisp images. 5" LCD touch screen makes the operation more handy. The built-in numerous practical functions enhance working efficiency and meet the requirements of various harsh measurement environments.



UTi641C/UTi1020C/UTi1280C

Professional Thermal Camera



Interchangeable Lens



Eyepiece observation



Dual digital camera



Focus mode



Laser ranging



AI outline



Panorama stitching



AI voice



Customized palettes



Bluetooth



Wi-Fi



NFC transmission



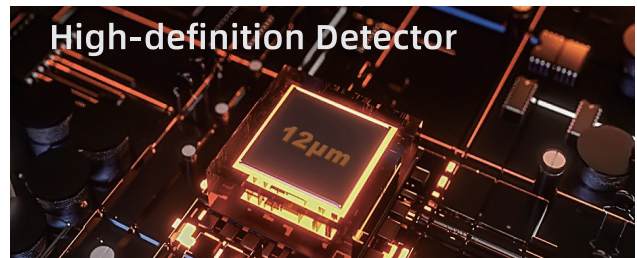
5" Capacitive Touch Screen



Wide Temperature Range



High-definition Detector



Dual-light Video Recording

- Equips dual digital camera (Telephoto & Wide-angle), up to 16MP.
- Videos can be stored in MP4 format (without temp info) and Irgd format (with temp info)
- Video refresh rate up to 20Hz (optional)



Rotatable Lens

Lens can be rotated up to 90°, easy to change and calibration-free.



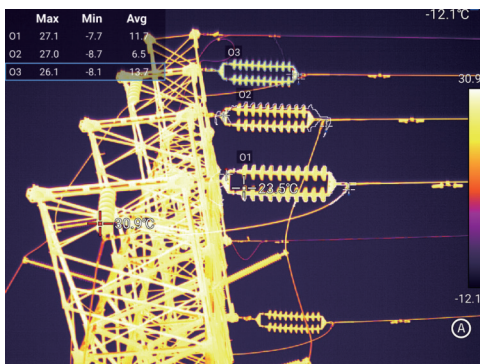
NFC Transmission

Ultra-fast experience with data transmission in an instant.



AI Outline

Manually draw the outline for the targets, and system will automatically align & enclose it to obtain more accurate measurement results.



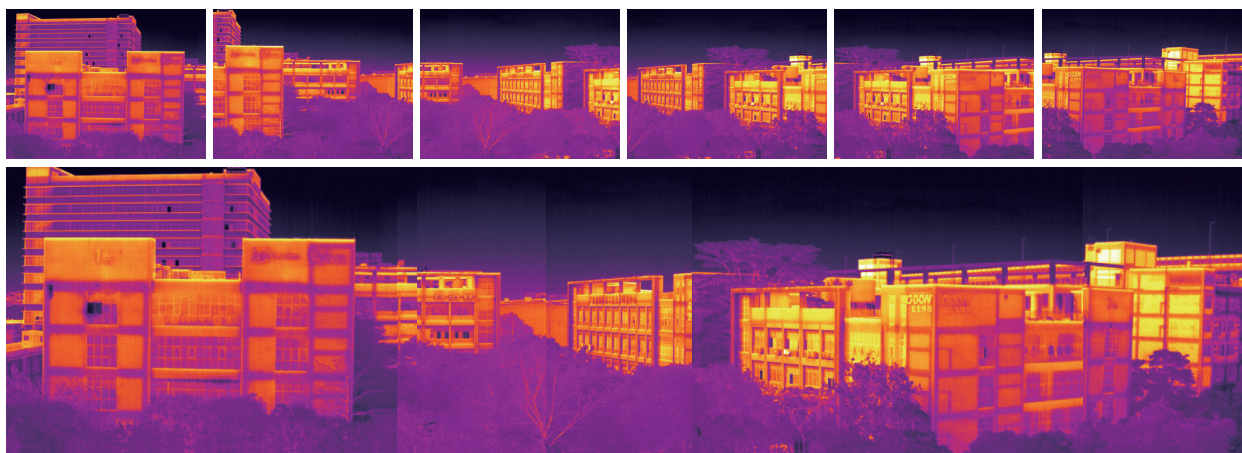
All-round Voice Assistant

Frees up your hands and realize remote control via the built-in all-round voice assistant.



Panorama Stitching

Without decreasing the details of the image, multiple thermal images can be stitched into a panoramic image through panoramic stitching function, which is convenient for panoramic analysis and improves working efficiency. It is extremely useful for monitoring complex scenes such as large equipment, buildings, and construction sites.



Self-adaptive Interchangeable Lens



UTi641C

UT-Z033



17mm, 25°×19°
Standard Lens

UT-Z034



10.0mm, 45°×34°
Wide-angle Lens

UT-Z035



30mm, 15°×11°
Medium-tele Lens

UT-Z036



64mm, 7°×5°
Tele Lens

UT-Z037



33.5mm, 3x magnification
Marco Lens

UT-Z011



400~2500 C, 25°×19°
HI Temp. Lens

UTi1020C

UT-Z023



28mm, 25°×19°
Standard Lens

UT-Z024



35.8mm, 3x magnification
Marco Lens

UT-Z025



15mm, 45°×34°
Wide-angle Lens

UT-Z026



47mm, 15°×11°
Medium-tele Lens

UT-Z027



100mm, 7°×5°
Tele Lens

UT-Z028



400~2500 C, 25°×19°
HI Temp. Lens

UTi1280C

UT-Z024



35.8mm, 3x magnification
Marco Lens

UT-Z028



400~2500 C, 25°×19°
HI Temp. Lens

UT-Z029



35mm, 25°×19°
Standard Lens

UT-Z030



19mm, 45°×34°
Wide-angle Lens

UT-Z031



60mm, 15°×11°
Medium-tele Lens

UT-Z032



130mm, 7°×5°
Tele Lens

Focus Modes

Continuous AF

Semi-auto Focus

Touch AF

Laser Assisted Focus

Manual Focus

Data Import


Batch Analysis

Trend Analysis

Real-time Image Projection

Report Generation

Specifications

Model No.	UTi641C	UTi1020C	UTi1280C
Product Photo			
Technical Data			
IR resolution(Pixels)	5" LCD Touch (1920×1080)		
Eyepiece	OLED screen, 1920×1080		
IR resolution(Pixels)	640×512	1024×768	1280×1024
Pixel size	12μm		
Frame rate	30Hz		
Thermal sensitivity(NETD)	≤30mK	≤25mK	
Focus	Manual / Automatic / Touch AF / Continuous AF		
Lens focal length	17mm	28mm	35mm
Field of view(FOV)	25°×19°		
Lens recognition	Automatic		
Temperature measurement range	Support auto-switching: -40°C~150°C, 0°C~650°C 400°C~2500°C (Optional HI Temp. Lens)	Support auto-switching: -40°C~150°C, 0°C~800°C 400°C~2500°C (Optional HI Temp. Lens)	
Accuracy	±1°C or ±1% whichever is greater		
Functions			
Image mode	Thermal, Visual image, Fusion, PIP		
On screen analyzer	30 Points/30 Lines/30 Rectangles/30 Circles	35 Points/35 Lines/35 Rectangles/35 Circles	
Level & Span	Automatic, Semi-automatic, Manual		
Image outline	√		
Panoramic stitching	√		
NFC transmission	√		
Customized auxiliary button	√		
All-round voice assistant	√		
Annotation	√		
Digital camera resolution	8MP+13MP	8MP+16MP	
Digital zoom	1.1x~40x	1.1x~50x	
Video/voice recording	√		
Wi-Fi/Wi-Fi live streaming	√		
Bluetooth	√		
GPS/E-compass	√		
Laser pointer/LRF	√		
LED lighting	√		
Analysis software	PC+APP		
General Characteristics			
Battery type	Lithium-ion rechargeable battery		
Operating time	4 hours		
External interface	Type-C, DC (12V) , SD card slot, Micro HDMI, UNC ¼"-20 (Tripod mounting)		
Storage	Built-in (64 GB) and external SD card (128 GB and up to 256 GB)		
Image/video storage format	JPG (with temp info) / MP4 (without temp info) & Irgd (with temp info)		
Protection	IP54		
Weight	1.86kg (with battery)		
Dimension	191mm×171mm×118mm		
Packing Details			
Standard accessories	Lens front and back cover, Lithium-ion battery (2 pcs), Desktop charger, Power adapter, Adapter plug (5 pcs) , TYPE-C USB cable, Micro HDMI cable, Type C to GE cable, SD card (128 GB) , Wrist strap, Shoulder strap, Carrying case, Safety box, Packaging list, Quick Start Guide, Data download card (analysis software & user manual), Certificate of approval, Factory certificate		
Standard individual packing	Toolbox & Gift box		
Standard Qty per carton	1pcs		



UTi591A

On-line Thermographic Camera

Overview

UTi591A is an on-line thermographic camera integrating an infrared thermal imager and a digital camera. Its small size breaks through the installation limitations of narrow spaces, allowing for flexible deployment. It is particularly suitable for deployment in narrow and enclosed spaces such as power distribution cabinets and data centers, providing continuous temperature data collection, analysis, and alerts for uninterrupted state monitoring of critical electromechanical equipment.

Features

- Infrared resolution: 120×90 pixels (upgrades to 480×360)
- Frame rate: 30Hz
- Temperature measurement range covers -20 °C ~400 °C
- Unified interface, compatible with Ethernet/IP standard protocol, which is conducive to networking
- Remote access to real-time video and temperature data
- Multiple installation methods: Hoisting/Vertical Mounting/Wall Mounting/Tripod Mounting/Magnetic etc.
- Features T-Mix 2.0 algorithm
- Automatic lighting supplement
- Compact & light-weight design, low power consumption

Applications



Transformer



Battery Storage




High-tension Switch Cabinet



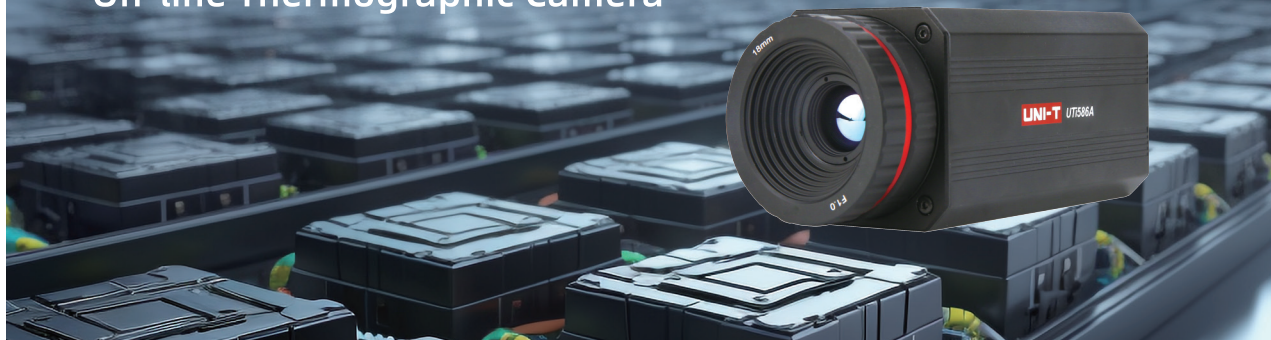
Machine Room Monitoring

Specifications

Model No.	UTi591A
Product Photo	
Technical Data	
Infrared resolution	120×90 pixels, can be upgrared to 480×360 pixels
Pixel size	17μm
Frame rate	30Hz
NETD	≤60mK
Infrared lens	2.28mm, 50°
Digital camera lens	3.2mm, 76°×50°
Digital camera resolution	1920×1080
Focus	Focus free
Temperature measurement range	-20~400℃
Accuracy	±2℃ or ±2% whichever is greater
Functions	
Image mode	Thermal, Visual image, T-Mix fusion
On screen analyzer	Point/Line/Circle/Rectangle
HI/LO temperature tracking	√
HI/LO temprature alm	Audible and visual alarm, I/O output, Log, Image save, File sending (FTP), Email (SMTP), Notice
Data record	Photo capturing & video recording (built-in storage)
Networking	Support to connect with different types of UT on-line thermographic products
General Characteristics	
Data interface	Ethernet, I/O alarm, RS485
Protocol/standard	ONVIF, GB28181, Modbus TCP/RTU, MQTT, etc
SDK	Windows/Linux
Video compression standard	4K@30fps H.264 standard
Image storage format	JPEG
Power supply	Ethernet POE/DC12V-24V
Power dissapation	≤3.6W
Working temperature	-10℃~50℃
Storage temperature	-40℃~70℃
Working humidity	<85%RH
IP rating	IP67
Installing method	Hoisting/Vertical Mounting/Wall Mounting/Tripod Mounting/Magnetic, etc.
Dimension	105mm×65mm×30mm

UTi586A/UTi587A

On-line Thermographic Camera



Interchangeable Lens



6mm
(UTi586A only)



62.8mm
(UTi587A only)



9.6mm



18mm



36mm

Features

- IR resolution: 400×300/640×512 pixels
- Interchangeable Lens
- Temperature measurement range from -20 °C to 650 °C (up to 2000 °C, HI Temp lens is required)
- Smooth image, up to 30Hz
- Heat-resistant mechanism
- Comprehensive data output, convenient for secondary analysis
- 2D & 3D noise reduction
- Practical functions (Manual focus/Mirror/Digital zoom/Local video output)
- Adjustable color palettes
- DDE algorithm
- OTA update
- Remote access real-time videos & temperature data
- PoE/DC power supply
- Multiple installation methods: Hoisting/Vertical Mounting/Wall Mounting/Tripod Mounting etc.

Applications



Warehousing Industry



Metal Smelting




Petrochemical Industry



Scientific Research Testing

Specifications

Model No.	UTI586A	UTI587A
Product Photo		
Technical Data		
Infrared resolution	400×300 pixels	640×512 pixels
Pixel size	12μm	
Frame rate	30Hz	
NETD	≤45mK	
Lens focal length	6mm/9.6mm/18mm/36mm	9.6mm/18mm/36mm/62.8mm
FOV	46°(H)×34°(V), (D)58°@f 6mm 28.8°(H)×21.5°(V), (D)36.2°@f 9.6mm 15.2°(H)×11.4°(V), (D)19°@f 18mm 7.6°(H)×5.6°(V), (D)9.4°@f 36mm	46°(H)×37°(V), (D)61.4°@f 9.6mm; 24°(H)×19.3°(V), (D)30.5°@f 18mm 12(H)°×9.6°(V), (D)15.5°@f 36mm; 7°(H)×5.6°(V), (D)9°@f 62.8mm
I FOV	2mrad@f 6mm; 1.25mrad@f 9.6mm 0.66mrad@f 18mm 0.33mrad@f 36mm	1.25mrad@f 9.6mm 0.66mrad@f 18mm 0.33mrad@f 36mm 0.19mrad@f 62.8mm
Focus	Manual focus	
Temperature measurement range	-20~650 C (up to 2000 C, HI temp lens is required)	
Accuracy	±2 C or ±2% whichever is greater	
Functions		
Image mode	Thermal	
HI/LO temprature tracking	√	
HI/LO temprature alm	I/O output, Log, Image save, File sending (FTP), Email (SMTP), Notice	
Data record	Photo capturing & video recording (built-in storage)	
Networking	Support to connect with different types of UT on-line thermographic products	
Browsing	WEB & PC analysis software	
User management	√	
General Characteristics		
Data interface	Ethernet, I/O alarm, RS485	
Protocol/standard	ONVIF, GB28181, Modbus TCP/RTU, MQTT, etc	
SDK	Windows/Linux	
Video compression standard	4K@30fps H.264 standard	
Image storage format	JPEG	
Power supply	Ethernet POE/DC12V-24V	
Power dissipation	≤3.6W	
Working temperature	-20℃~60℃	
Storage temperature	-40℃~70℃	
Working humidity	< 95%RH noncondensing	
Installing method	Hoisting/Vertical Mounting/Wall Mounting/Tripod Mounting, etc.	
Dimension	120mm×65mm×65mm (without lens)	

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



Download on the
App Store



GET IT ON
Google Play



UTx313M/UTx318M/UTx325M

Thermal Monocular



Pocket size



0.39" OLED
(1024×768)



Stadiametric
ranging



Wi-Fi live
streaming



E-Compass



Video recording



Detachable
battery



Mobile APP



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, 3 scenes are offered:

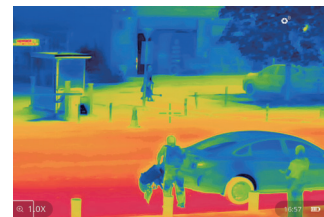
- **Bird mode:** Find a target with small heat sources. It's suitable for bird observation.
- **Forest mode:** Providing more details of the observed target and landscape. It's suitable for observation and searching in forest.
- **Rock mode:** Show more details in the complex scene. It's suitable for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



Bird mode



Forest mode



Rock mode

357_g



Lightweight and convenient to carry

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

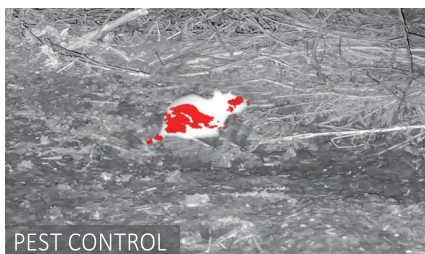
- Supply power for detachable batteries and mobile devices.
- Charging via Type-C interface



- Charging indicator light



OUTDOOR OBSERVATION




PEST CONTROL



NIGHT PATROL

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 mode	Bird, Forest, Rock		
Calibration mode	Auto, Manual, Background		
Distance Measurement	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	Built-in 16GB		
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		

UTx313MR/UTx318MR/UTx325MR

Thermal Monocular



Pocket size



0.39" OLED
(1024×768)



Laser ranging



Wi-Fi live
streaming



E-Compass



Video recording



Detachable
battery



Mobile APP



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, 3 scenes are offered:

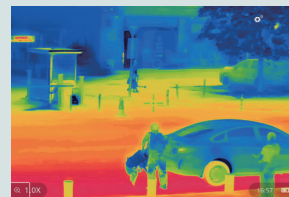
- Bird mode: Find a target with small heat sources. It's suitable for bird observation.
- Forest mode: Providing more details of the observed target and landscape. It's suitable for observation and searching in forest.
- Rock mode: Show more details in the complex scene. It's suitable for sunny days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



Bird mode



Forest mode



Rock mode



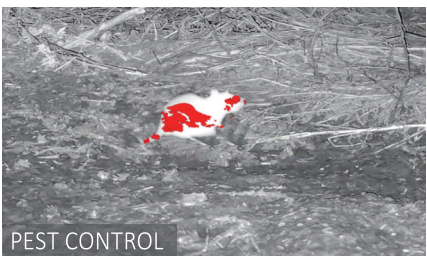
Smart Standby

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.	UTx313MR	UTx318MR	UTx325MR
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 mode	Bird, Forest, Rock		
Calibration mode	Auto, Manual, Background		
Distance Measurement	Laser ranging (up to 1000m)		
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	Built-in 16GB		
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



IR resolution



Waterproof
and dustproof



Photo viewing



2m drop proof

384x288 IR Resolution

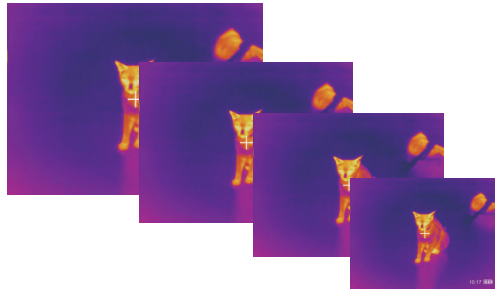
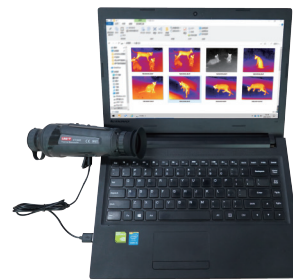


Photo Viewing

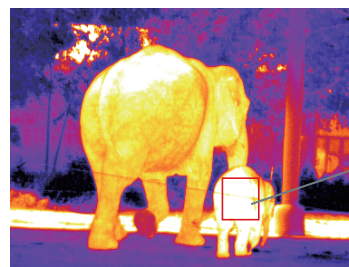


Center Spot Mark

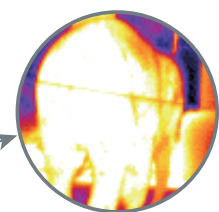


Hot Trace

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



Hot trace - On



Hottest area

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.

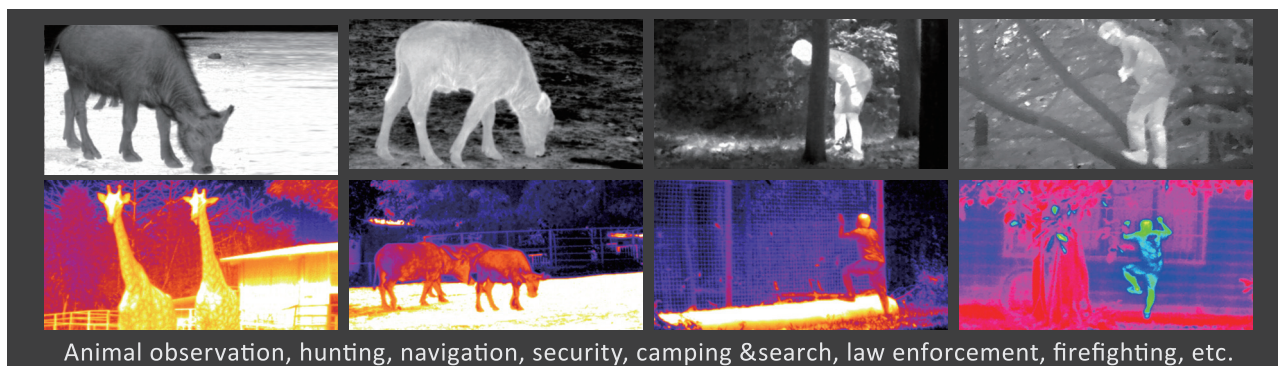
Digital Zoom

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



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 mode	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	Built-in 16GB		
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)



IR resolution



Frame rate



Stadiametric
ranging



Wi-Fi
live streaming



Digital zoom



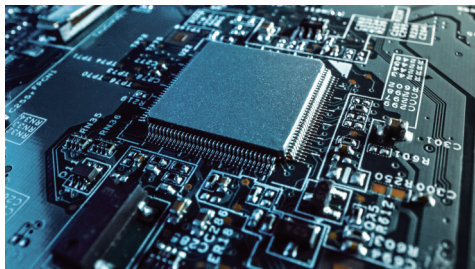
Video
recording



Mobile APP

16GB Built-in Memory

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



Waterproof & Dustproof

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



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.




OLED 640×400 Display

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



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 mode	Auto, Manual, Background
Distance Measurement	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	Built-in 16GB
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



Pocket size



0.39" OLED
(1024x768)



IR resolution



Stadiametric
ranging



Wi-Fi
live streaming



Video
recording



Detachable
battery



Mobile APP



640x512 High IR Resolution

With 640x512 high IR resolution, and high-gamut 0.39-inch display brings better image quality and visual effects.



640x512
IR Resolution



0.39 inch
OLED

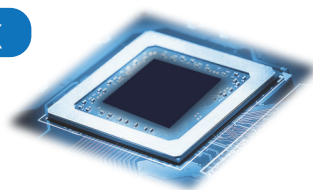


1024x768
Display

Thermal Sensitivity (NETD): <25mk

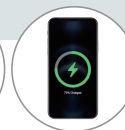
Uses a 25 mK NETD high sensitivity thermal detector to provide clear and detailed thermal images.

<25mk




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 mode	Bird, Forest, Rock	
Calibration mode	Auto, Manual, Background	
Distance Measurement	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-M21)	
Operating time	≥3.5 hours	
USB	Type-C	
Storage	Built-in 16GB	
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	

Accessories



Without installing a macro lens, thermal imaging quality gets blurry when measuring targets within the minimum imaging distance. After installing a macro lens, thermal imaging quality remains clear even though focusing on targets at a close distance. Please be subject to user manual for the optimum measurement distance.

UT-Z005
Macro Lens



* Applicable for UTi721M/UTi720M

UT-Z002
Macro Lens

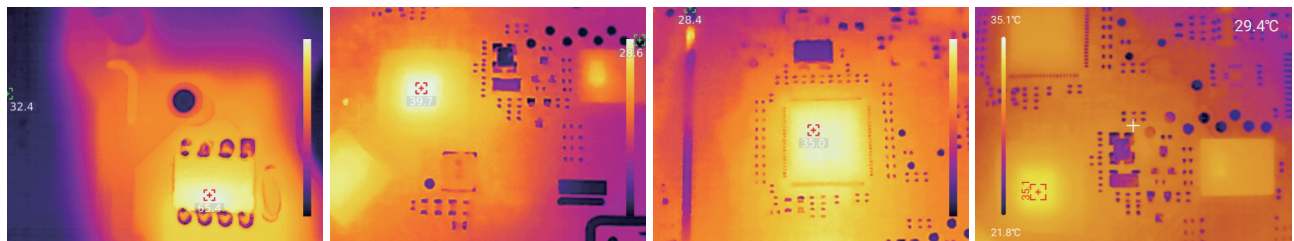


* Applicable for UTi260B/UTi260B Max/UTi720A

UT-Z003
Macro Lens



* Applicable for UTi730E/UTi720E/UTi730V/UTi720V



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



USB Type-C



Large capacity



LED indicator



Overcharge protection



Snap-on battery



* Applicable for UNI-T E/V/H/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

UNI-T®



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UNI-TREND TECHNOLOGY (CHINA) CO., LTD.

No.6, Gong Ye Bei 1st Road, Songshan Lake National High-Tech Industrial Development Zone,
Dongguan City, Guangdong Province, China
Post Code: 523 808
Tel: (86-769) 8572 3888

UNI-TREND TECHNOLOGY (HONG KONG) LIMITED

Rm 901, 9/F, Nanyang Plaza, 57 Hung To Road, Kwun Tong,
Kowloon, Hong Kong

UNI-TREND TECHNOLOGY EU GMBH

Affinger Str. 12
86167 Augsburg
Germany

UNI-TREND TECHNOLOGY US INC.

STE 104
3171 MERCER AVE
BELLINGHAM WA 98225-8474

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