

UNI-T®



Thermal Cameras

2023

COMPANY HISTORY



Uni-Trend Technology (Heyuan) Limited was founded.

2021



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

2012



Uni-Trend moved its headquarters to Songshan Lake Industrial Park

2010



'UNI-T' brand and trademark has been recognized in more than 70 countries around the world

2007



Opened the second R&D center in Chengdu for instruments

2005



Products have obtained CE, ETL, UL, GS and other certifications

1998



Gained ISO 9001 Quality Verification Certificate from LRQA

1997



UNI-T brand was founded

1988



Jun Yi Electronics was founded in Shenzhen



I 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.

I THE ROAD AHEAD

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.



UTi256G/UTi384G

Industrial Enhanced Thermal Camera

UTi256G/UTi384G are enhanced thermal cameras that specially designed for industrial use with high IR resolution 256×192/384×288 and wide temperature range:-20°C~550°C. The professional manual focus lens can flexibly adjust the focal length according to different objective's distance and provide high quality image. The 3.5" large IPS touch screen provide efficient and convenient operation experience for users. UTi256G/UTi384G also support various outstanding functions: such as Wi-Fi, voice recording, laser pointer, on screen analyzer, Isotherm, QR Code for photo management, etc. They are perfect troubleshooting tools for many industrial applications.



Wi-Fi



Manual focus lens



3.5" IPS touch screen

■ UTi256G/UTi384G



-20°C~550°C



Manual focus



3.5" IPS touch screen



5MP digital camera



Wi-Fi



Video recording (UTi384G)



Voice recording



Flexible Isotherm



On screen analyzer



PC software analysis



Laser pointer



Replaceable battery



IP rating



2m drop proof

















UTi720V/UTi730V

Professional Enhanced Thermal Camera

UTi720V/UTi730V are professional enhanced thermal cameras with Wi-Fi capability. The 3.5" large IPS touch screen which are very convenient for users to operate. The 256x192/320x240 IR resolution and 5MP digital camera provide high definition image. UTi720V/UTi730V also provide various functions, such as voice recording, video recording, laser distance measurement, on screen analyzer, flexible Isotherm, QR Code for photo management, etc.



■ UTi720V/UTi730V

- | | | | | | | |
|---|---|--|--|---|---|--|
| 
-20°C~550°C
-40°C~400°C | 
3.5" IPS
touch screen | 
5MP digital
camera | 
Wi-Fi | 
Video
recording | 
Voice
recording | 
Laser distance
measurement |
| 
Flexible
Isotherm | 
On screen
analyzer | 
PC software
analysis | 
Laser pointer | 
5200mAh
Replaceable
battery | 
IP54 | 
2m drop proof |



■ UTi32

High Temperature Thermal Camera

- Temperature measurement range: -20°C to **1000°C**
- Image modes: Thermal, Visual image, Fusion
- Long operation time (≥7 hours after full charged)
- Auto-tracking for high/low temperature



■ UTi740H

Professional Enhanced Thermal Camera

- IR resolution: 384×288
- 4.3" large IPS screen
- With manual focus lens
- Temperature measurement range: -30°C~650°C
- Isotherm: 5 (Auto/Below/Above/Section/Manual)



■ UTi640D

Intelligent Pro-grade Thermal Camera

- 5" IPS Touch screen
- IR resolution: 640×480
- Temperature measurement range: -40°C~650°C (standard lens) 650°C~2000°C (optional lens)
- Digital camera resolution: 5MP
- Digital zoom: 1.0~10x continuous
- Bluetooth & Wi-Fi connection
- Support GPS, Voice recording, Video recording.



■ UTi1024D

Intelligent Pro-grade Thermal Camera

- 5.8" IPS Touch screen
- IR resolution: 1024×768
- Temperature measurement range: -40°C~650°C (standard lens) 650°C~2000°C (optional lens)
- Digital camera resolution: 5MP
- Digital zoom: 1.0~10x continuous
- Bluetooth & Wi-Fi connection
- Support GPS, Voice recording, Video recording.

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Handheld Thermal Cameras

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



Handheld Thermal Cameras Model Selection

Models	UT1120P	UT1120T	UT185A	UT1165A+	UT1120B	UT1220B	UT1260B	UT1720A	UT1712S	UT132	UT1720E	UT1730E	UT1740H	UT1720V	UT1730V	UT1256G	UT1384G	UT1192M	UT1384M	UT1640C	UT1640D	UT1024D																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Technical Data																								IR resolution (Pixels)	120×90	120×90	80×60	160×120	120×90	200×150	256×192	256×192	120×90	32×32	256×192	320×240	384×288	256×192	320×240	256×192	384×288	192×144	384×288	640×480	640×480	1024×768	Display	2.4" TFT LCD (320×240)	3.5" TFT Touch (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.4" TFT LCD (320×240)	2.4" IPS (480×320)	3.5" IPS (640×480)	3.5" IPS (640×480)	4.3" IPS (800×480)	3.5" IPS Touch (640×480)	3.5" IPS Touch (640×480)	3.5" IPS Touch (640×480)	3.5" IPS Touch (640×480)	4" LCD Touch (800×480)	4" LCD Touch (800×480)	5" TFT LCD Touch (1280×720)	5" IPS Touch (1280×720)	5.8" IPS Touch (1280×720)	Field of view (FOV)	50°×38°	50°×38°	51°×38°	56°×42°	50°×38°	35°×26°	56°×42°	56°×42.2°	50°×38°	30°×30°	56°×42.2°	56°×42°	28°×21°	56°×42°	56°×42°	28°×20°	42°×30°	37.8°×28.8°	28.4°×21.5°	24.6°×18.5°	24.5°×18.5°	31°×23°	Thermal sensitivity (NETD)	≤60mK	≤60mK	≤150mK	≤50mK	≤60mK	≤100mK	≤50mK	≤50mK	≤60mK	0.15°C	≤50mK	≤65mK	≤60mK	≤50mK	≤50mK	≤40mK	≤40mK	≤50mK	≤45mK	≤30mK	≤45mK	≤45mK	Spatial resolution (IFOV)	7.3mrad	7.6mrad	11.1mrad	6.1mrad	7.3mrad	3.1mrad	3.8mrad	3.8mrad	7.3mrad	—	3.8mrad	3mrad	1.3mrad	3mrad	3mrad	1.91mrad	1.91mrad	3.45mrad	1.29mrad	0.67mrad	0.68mrad	0.68mrad	Frame rate	≤25Hz	≤25Hz	≤9Hz	≤9Hz	≤25Hz	≤9Hz	≤25Hz	≤25Hz	≤25Hz	≤9Hz	≤25Hz	≤9Hz	≤25Hz	≤30Hz	≤9Hz	≤30Hz	≤25Hz	≤25Hz	≤25Hz	≤25Hz/9Hz	≤50Hz	≤50Hz	Focus	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Manual focus	Focus free	Focus free	Manual focus	Manual focus	Manual focus	Manual focus	Electric/Automatic	Manual/Electric/Automatic	Manual/Electric/Automatic	Temperature measurement range	-20°C~400°C	-20°C~400°C	-10°C~400°C	-10°C~400°C	-20°C~400°C	-10°C~400°C	-20°C~550°C	-20°C~400°C	-20°C~400°C	-20°C~1000°C	-20°C~550°C	-40°C~400°C	-30°C~650°C	-20°C~550°C	-40°C~400°C	-20°C~550°C	-20°C~550°C	-20°C~650°C (standard lens) 650~1500°C (optional lens)	-20°C~650°C (standard lens) 650~1500°C (optional lens)	-20°C~150°C, 150°C~800°C (standard lens) 800°C~2000°C (optional lens)	130°C~650°C (standard lens) 650°C~2000°C (optional lens)	130°C~650°C (standard lens) 650°C~2000°C (optional 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	±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	±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	±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 (standard lens) ±1°C or ±1% whichever is greater (optional lens)	±2°C or ±2% whichever is greater	±2°C or ±2% whichever is greater	Emissivity	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	Functions																								Color palettes	3 (Ironbow, Grey, Rainbow)	6 (White hot, Black hot, Ironbow, Hot iron, Arctic, Medical)	5 (White hot, Red hot, Ice blue, Ironbow, Rainbow)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	5 (White hot, Black hot, Red hot, Ironbow, Rainbow)	7 (Ironbow, White hot, Black hot, Tyrian, Amber, Cool, Rainbow)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	6 (White hot, Black hot, Ironbow, Rainbow HC, Rainbow, Lava)	3 (Ironbow, Rainbow, Black hot)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	8 (White hot, Fulgurite, Ironbow, Hot iron, Medical, Arctic, Rainbow 1, Rainbow 2)	8 (White hot, Fulgurite, Ironbow, Hot iron, Medical, Arctic, Rainbow 1, Rainbow 2)	10 (White hot, Lava, Ironbow, Hot iron, Medical, North pole, Rainbow 1, Red, Rainbow 2, Black hot)	7 (Ironbow, White hot, Black hot, Rainbow, Ironbow 2, Blue orange, Brown yellow)	7 (Ironbow, White hot, Black hot, Rainbow, Ironbow 2, Blue orange, Brown yellow)	Image modes	Thermal	Thermal, Visual image, Fusion, PIP	Thermal	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion, PIP	Thermal	Thermal	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	On screen analyzer	—	1 Point/1 Rectangle	—	3 Points	—	3 Points	3 Points	3 Points	—	—	5 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/5 Rectangles/5 Circles	5 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/3 Rectangles/3 Circles	3 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/5 Rectangles/5 Circles	5 Points/2 Lines/5 Rectangles/5 Circles	5 Points/2 Lines/5 Rectangles/5 Circles	10 Points/5 Lines/5 Rectangles/5 Circles	10 Points/5 Lines/5 Rectangles/5 Circles	10 Points/5 Lines/5 Rectangles/5 Circles	Digital camera resolution	—	640x480	—	640x480	640x480	640x480	640x480	—	—	640x480	2MP	2MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	Digital zoom	—	1.0~8x continuous	—	—	—	—	—	—	—	—	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	1.0~4x continuous	1.0~4x continuous	1.0~10x continuous	1.0~10x continuous	1.0~10x continuous	Hi/Lo temperature alarm	Icon	Icon, LED flashlight	Icon, LED flashlight	Icon, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, LED flashlight	Icon, LED flashlight	Icon, Buzzer, LED flashlight	Icon	Icon, LED flashlight	Icon, LED flashlight	Icon	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon	Icon	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Isotherm	—	—	—	—	—	—	—	—	—	—	6 (Auto/Ratio/Below/Above/Section/Manual)	6 (Auto/Ratio/Below/Above/Section/Manual)	2 (Auto/Manual)	2 (Auto/Manual)	2 (Auto/Manual)	5 (Auto/Manual/Above/Below/Section)	5 (Auto/Manual/Above/Below/Section)	2 (Above, Below)	2 (Above, Below)	2 (Above, Below)	2 (Above, Below)	2 (Above, Below)	Software analysis	PC	PC+APP	PC	PC	PC	PC	PC	PC	PC	PC	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC	PC	PC	PC	PC	Video recording	—	—	—	—	—	—	—	—	—	—	—	—	—	√	√	—	√	√	√	√	√	√	Voice recording	—	—	—	—	—	—	—	—	—	—	—	—	—	√	√	—	√	√	√	√	√	√	Wi-Fi/Bluetooth	—	√/—	—	—	—	—	—	—	—	—	√/—	√/—	√/—	√/—	√/—	—	√	√	√	√	√	√	GPS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Laser pointer	—	—	—	—	—	—	—	—	√	—	—	—	—	√	√	√	√	√	√	√	√	√	Laser distance measurement	—	—	—	—	—	—	—	—	—	—	—	—	—	√	√	—	—	—	—	—	—	—	General Characteristics																								Battery	Fixed Li-ion battery (3.7V 1350mAh)	Fixed Li-ion battery (3.7V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.7V 2600mAh)	Fixed Li-ion battery (3.7V 2600mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (7.2V 2300mAh)	Detachable Li-ion battery pack (7.2V 2300mAh)	Detachable Li-ion battery pack (11.1V 2900mAh)	Detachable Li-ion battery pack (7.4V 3400mAh)	Detachable Li-ion battery pack (7.4V 3400mAh)	Battery operation time	≥3.5 hours	≥2 hours (with Wi-Fi off)	≥6 hours	≥7 hours	≥6 hours	≥6 hours	≥6 hours	≥7 hours	≥8 hours	≥7 hours	≥3 hours (with Wi-Fi off)	≥3 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	≥4 hours	≥4 hours	≥4 hours	≥3 hours	≥2 hours	USB	Micro USB	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	HDMI, Micro USB	HDMI, Micro USB	HDMI, Micro USB	Type-C, HDMI	Type-C, HDMI	IP rating	—	IP54	IP65	IP65	IP65	IP65	IP65	IP65	IP54	—	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	Drop proof	1m	1m	2m	2m	2m	2m	2m	2m	2m	—	2m	2m	2m	2m	2m	2m	2m	—	—	—	—	—	Storage	Up to 32GB Micro SD card	4GB Internal	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	16GB Micro SD card	16GB Micro SD card	16GB Micro SD card	16GB Micro SD card	32GB Micro SD card	16GB Micro SD card	16GB Micro SD card	8GB Internal, 32GB External	8GB Internal, 32GB External	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	Image/Video storage format	BMP	JPEG	BMP	BMP	BMP	BMP	BMP	BMP	BMP	BMP	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	Pic: JPEG Video: irgd & MP4	Picture: JPEG Video: irgd	Picture: JPEG Video: irgd	Picture: JPEG Video: dat	Picture: JPEG Video: dat	Certificates	CE, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	—	—	—	Languages	ZH, EN	ZH, EN	ZH, EN, FR, DE, IT, ES, US, ES, EU, PT, EU	ZH, EN	ZH, EN	ZH, EN	ZH, EN	ZH, EN	EN, FR, DE, IT, ES, SV	ZH, EN	EN, FR, DE, ES, RU	EN, FR, DE, ES, RU	EN, FR, DE, IT, ES, SV	EN, FR, DE, IT, ES, SV, PL, CZ	EN, FR, DE, IT, ES, SV, PL, CZ	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	ZH, EN, FR, DE, IT, ES, SV, PL, CZ, PT, RU, JA, KO, NL, HU	ZH, EN, FR, DE, IT, ES, SV, PL, CZ, PT, RU, JA, KO, NL, HU	—	ZH	ZH	Product net weight	125g	212g	490g	490g	490g	490g	490g	490g	310g	301g	654g	654g	806g	654g	654g	880g	880g	840g	840g	1350g	<1.7kg	<1.7kg	Product size	76x76x24mm	205x124x65mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	197x72x60mm	205x124x65mm	260x97x99mm	260x97x99mm	266x126.66x136mm	260x97x99mm	260x97x99mm	261x104x97mm	261x104x97mm	274x106x78mm	274x106x78mm	206x145x135mm	262.5x150.5x91.3mm	237x169.6x89.4mm
IR resolution (Pixels)	120×90	120×90	80×60	160×120	120×90	200×150	256×192	256×192	120×90	32×32	256×192	320×240	384×288	256×192	320×240	256×192	384×288	192×144	384×288	640×480	640×480	1024×768																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Display	2.4" TFT LCD (320×240)	3.5" TFT Touch (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.4" TFT LCD (320×240)	2.4" IPS (480×320)	3.5" IPS (640×480)	3.5" IPS (640×480)	4.3" IPS (800×480)	3.5" IPS Touch (640×480)	3.5" IPS Touch (640×480)	3.5" IPS Touch (640×480)	3.5" IPS Touch (640×480)	4" LCD Touch (800×480)	4" LCD Touch (800×480)	5" TFT LCD Touch (1280×720)	5" IPS Touch (1280×720)	5.8" IPS Touch (1280×720)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Field of view (FOV)	50°×38°	50°×38°	51°×38°	56°×42°	50°×38°	35°×26°	56°×42°	56°×42.2°	50°×38°	30°×30°	56°×42.2°	56°×42°	28°×21°	56°×42°	56°×42°	28°×20°	42°×30°	37.8°×28.8°	28.4°×21.5°	24.6°×18.5°	24.5°×18.5°	31°×23°																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Thermal sensitivity (NETD)	≤60mK	≤60mK	≤150mK	≤50mK	≤60mK	≤100mK	≤50mK	≤50mK	≤60mK	0.15°C	≤50mK	≤65mK	≤60mK	≤50mK	≤50mK	≤40mK	≤40mK	≤50mK	≤45mK	≤30mK	≤45mK	≤45mK																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Spatial resolution (IFOV)	7.3mrad	7.6mrad	11.1mrad	6.1mrad	7.3mrad	3.1mrad	3.8mrad	3.8mrad	7.3mrad	—	3.8mrad	3mrad	1.3mrad	3mrad	3mrad	1.91mrad	1.91mrad	3.45mrad	1.29mrad	0.67mrad	0.68mrad	0.68mrad																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Frame rate	≤25Hz	≤25Hz	≤9Hz	≤9Hz	≤25Hz	≤9Hz	≤25Hz	≤25Hz	≤25Hz	≤9Hz	≤25Hz	≤9Hz	≤25Hz	≤30Hz	≤9Hz	≤30Hz	≤25Hz	≤25Hz	≤25Hz	≤25Hz/9Hz	≤50Hz	≤50Hz																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Focus	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Focus free	Manual focus	Focus free	Focus free	Manual focus	Manual focus	Manual focus	Manual focus	Electric/Automatic	Manual/Electric/Automatic	Manual/Electric/Automatic																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Temperature measurement range	-20°C~400°C	-20°C~400°C	-10°C~400°C	-10°C~400°C	-20°C~400°C	-10°C~400°C	-20°C~550°C	-20°C~400°C	-20°C~400°C	-20°C~1000°C	-20°C~550°C	-40°C~400°C	-30°C~650°C	-20°C~550°C	-40°C~400°C	-20°C~550°C	-20°C~550°C	-20°C~650°C (standard lens) 650~1500°C (optional lens)	-20°C~650°C (standard lens) 650~1500°C (optional lens)	-20°C~150°C, 150°C~800°C (standard lens) 800°C~2000°C (optional lens)	130°C~650°C (standard lens) 650°C~2000°C (optional lens)	130°C~650°C (standard lens) 650°C~2000°C (optional 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	±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	±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	±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 (standard lens) ±1°C or ±1% whichever is greater (optional lens)	±2°C or ±2% whichever is greater	±2°C or ±2% whichever is greater																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Emissivity	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Functions																								Color palettes	3 (Ironbow, Grey, Rainbow)	6 (White hot, Black hot, Ironbow, Hot iron, Arctic, Medical)	5 (White hot, Red hot, Ice blue, Ironbow, Rainbow)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	5 (White hot, Black hot, Red hot, Ironbow, Rainbow)	7 (Ironbow, White hot, Black hot, Tyrian, Amber, Cool, Rainbow)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	6 (White hot, Black hot, Ironbow, Rainbow HC, Rainbow, Lava)	3 (Ironbow, Rainbow, Black hot)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	8 (White hot, Fulgurite, Ironbow, Hot iron, Medical, Arctic, Rainbow 1, Rainbow 2)	8 (White hot, Fulgurite, Ironbow, Hot iron, Medical, Arctic, Rainbow 1, Rainbow 2)	10 (White hot, Lava, Ironbow, Hot iron, Medical, North pole, Rainbow 1, Red, Rainbow 2, Black hot)	7 (Ironbow, White hot, Black hot, Rainbow, Ironbow 2, Blue orange, Brown yellow)	7 (Ironbow, White hot, Black hot, Rainbow, Ironbow 2, Blue orange, Brown yellow)	Image modes	Thermal	Thermal, Visual image, Fusion, PIP	Thermal	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion, PIP	Thermal	Thermal	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	On screen analyzer	—	1 Point/1 Rectangle	—	3 Points	—	3 Points	3 Points	3 Points	—	—	5 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/5 Rectangles/5 Circles	5 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/3 Rectangles/3 Circles	3 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/5 Rectangles/5 Circles	5 Points/2 Lines/5 Rectangles/5 Circles	5 Points/2 Lines/5 Rectangles/5 Circles	10 Points/5 Lines/5 Rectangles/5 Circles	10 Points/5 Lines/5 Rectangles/5 Circles	10 Points/5 Lines/5 Rectangles/5 Circles	Digital camera resolution	—	640x480	—	640x480	640x480	640x480	640x480	—	—	640x480	2MP	2MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	Digital zoom	—	1.0~8x continuous	—	—	—	—	—	—	—	—	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	1.0~4x continuous	1.0~4x continuous	1.0~10x continuous	1.0~10x continuous	1.0~10x continuous	Hi/Lo temperature alarm	Icon	Icon, LED flashlight	Icon, LED flashlight	Icon, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, LED flashlight	Icon, LED flashlight	Icon, Buzzer, LED flashlight	Icon	Icon, LED flashlight	Icon, LED flashlight	Icon	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon	Icon	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Isotherm	—	—	—	—	—	—	—	—	—	—	6 (Auto/Ratio/Below/Above/Section/Manual)	6 (Auto/Ratio/Below/Above/Section/Manual)	2 (Auto/Manual)	2 (Auto/Manual)	2 (Auto/Manual)	5 (Auto/Manual/Above/Below/Section)	5 (Auto/Manual/Above/Below/Section)	2 (Above, Below)	2 (Above, Below)	2 (Above, Below)	2 (Above, Below)	2 (Above, Below)	Software analysis	PC	PC+APP	PC	PC	PC	PC	PC	PC	PC	PC	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC	PC	PC	PC	PC	Video recording	—	—	—	—	—	—	—	—	—	—	—	—	—	√	√	—	√	√	√	√	√	√	Voice recording	—	—	—	—	—	—	—	—	—	—	—	—	—	√	√	—	√	√	√	√	√	√	Wi-Fi/Bluetooth	—	√/—	—	—	—	—	—	—	—	—	√/—	√/—	√/—	√/—	√/—	—	√	√	√	√	√	√	GPS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Laser pointer	—	—	—	—	—	—	—	—	√	—	—	—	—	√	√	√	√	√	√	√	√	√	Laser distance measurement	—	—	—	—	—	—	—	—	—	—	—	—	—	√	√	—	—	—	—	—	—	—	General Characteristics																								Battery	Fixed Li-ion battery (3.7V 1350mAh)	Fixed Li-ion battery (3.7V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.7V 2600mAh)	Fixed Li-ion battery (3.7V 2600mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (7.2V 2300mAh)	Detachable Li-ion battery pack (7.2V 2300mAh)	Detachable Li-ion battery pack (11.1V 2900mAh)	Detachable Li-ion battery pack (7.4V 3400mAh)	Detachable Li-ion battery pack (7.4V 3400mAh)	Battery operation time	≥3.5 hours	≥2 hours (with Wi-Fi off)	≥6 hours	≥7 hours	≥6 hours	≥6 hours	≥6 hours	≥7 hours	≥8 hours	≥7 hours	≥3 hours (with Wi-Fi off)	≥3 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	≥4 hours	≥4 hours	≥4 hours	≥3 hours	≥2 hours	USB	Micro USB	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	HDMI, Micro USB	HDMI, Micro USB	HDMI, Micro USB	Type-C, HDMI	Type-C, HDMI	IP rating	—	IP54	IP65	IP65	IP65	IP65	IP65	IP65	IP54	—	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	Drop proof	1m	1m	2m	2m	2m	2m	2m	2m	2m	—	2m	2m	2m	2m	2m	2m	2m	—	—	—	—	—	Storage	Up to 32GB Micro SD card	4GB Internal	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	16GB Micro SD card	16GB Micro SD card	16GB Micro SD card	16GB Micro SD card	32GB Micro SD card	16GB Micro SD card	16GB Micro SD card	8GB Internal, 32GB External	8GB Internal, 32GB External	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	Image/Video storage format	BMP	JPEG	BMP	BMP	BMP	BMP	BMP	BMP	BMP	BMP	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	Pic: JPEG Video: irgd & MP4	Picture: JPEG Video: irgd	Picture: JPEG Video: irgd	Picture: JPEG Video: dat	Picture: JPEG Video: dat	Certificates	CE, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	—	—	—	Languages	ZH, EN	ZH, EN	ZH, EN, FR, DE, IT, ES, US, ES, EU, PT, EU	ZH, EN	ZH, EN	ZH, EN	ZH, EN	ZH, EN	EN, FR, DE, IT, ES, SV	ZH, EN	EN, FR, DE, ES, RU	EN, FR, DE, ES, RU	EN, FR, DE, IT, ES, SV	EN, FR, DE, IT, ES, SV, PL, CZ	EN, FR, DE, IT, ES, SV, PL, CZ	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	ZH, EN, FR, DE, IT, ES, SV, PL, CZ, PT, RU, JA, KO, NL, HU	ZH, EN, FR, DE, IT, ES, SV, PL, CZ, PT, RU, JA, KO, NL, HU	—	ZH	ZH	Product net weight	125g	212g	490g	490g	490g	490g	490g	490g	310g	301g	654g	654g	806g	654g	654g	880g	880g	840g	840g	1350g	<1.7kg	<1.7kg	Product size	76x76x24mm	205x124x65mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	197x72x60mm	205x124x65mm	260x97x99mm	260x97x99mm	266x126.66x136mm	260x97x99mm	260x97x99mm	261x104x97mm	261x104x97mm	274x106x78mm	274x106x78mm	206x145x135mm	262.5x150.5x91.3mm	237x169.6x89.4mm																																																																																																																																																																																																																																																														
Color palettes	3 (Ironbow, Grey, Rainbow)	6 (White hot, Black hot, Ironbow, Hot iron, Arctic, Medical)	5 (White hot, Red hot, Ice blue, Ironbow, Rainbow)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	5 (White hot, Black hot, Red hot, Ironbow, Rainbow)	7 (Ironbow, White hot, Black hot, Tyrian, Amber, Cool, Rainbow)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	6 (White hot, Black hot, Ironbow, Rainbow HC, Rainbow, Lava)	3 (Ironbow, Rainbow, Black hot)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	8 (White hot, Fulgurite, Ironbow, Hot iron, Medical, Arctic, Rainbow 1, Rainbow 2)	8 (White hot, Fulgurite, Ironbow, Hot iron, Medical, Arctic, Rainbow 1, Rainbow 2)	10 (White hot, Lava, Ironbow, Hot iron, Medical, North pole, Rainbow 1, Red, Rainbow 2, Black hot)	7 (Ironbow, White hot, Black hot, Rainbow, Ironbow 2, Blue orange, Brown yellow)	7 (Ironbow, White hot, Black hot, Rainbow, Ironbow 2, Blue orange, Brown yellow)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Image modes	Thermal	Thermal, Visual image, Fusion, PIP	Thermal	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion, PIP	Thermal	Thermal	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP	Thermal, Visual image, Fusion, PIP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
On screen analyzer	—	1 Point/1 Rectangle	—	3 Points	—	3 Points	3 Points	3 Points	—	—	5 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/5 Rectangles/5 Circles	5 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/3 Rectangles/3 Circles	3 Points/1 Line/3 Rectangles/3 Circles	5 Points/1 Line/5 Rectangles/5 Circles	5 Points/2 Lines/5 Rectangles/5 Circles	5 Points/2 Lines/5 Rectangles/5 Circles	10 Points/5 Lines/5 Rectangles/5 Circles	10 Points/5 Lines/5 Rectangles/5 Circles	10 Points/5 Lines/5 Rectangles/5 Circles																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Digital camera resolution	—	640x480	—	640x480	640x480	640x480	640x480	—	—	640x480	2MP	2MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP	5MP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Digital zoom	—	1.0~8x continuous	—	—	—	—	—	—	—	—	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	2x, 4x	1.0~4x continuous	1.0~4x continuous	1.0~10x continuous	1.0~10x continuous	1.0~10x continuous																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Hi/Lo temperature alarm	Icon	Icon, LED flashlight	Icon, LED flashlight	Icon, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, LED flashlight	Icon, LED flashlight	Icon, Buzzer, LED flashlight	Icon	Icon, LED flashlight	Icon, LED flashlight	Icon	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon	Icon	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight	Icon, Buzzer, LED flashlight																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Isotherm	—	—	—	—	—	—	—	—	—	—	6 (Auto/Ratio/Below/Above/Section/Manual)	6 (Auto/Ratio/Below/Above/Section/Manual)	2 (Auto/Manual)	2 (Auto/Manual)	2 (Auto/Manual)	5 (Auto/Manual/Above/Below/Section)	5 (Auto/Manual/Above/Below/Section)	2 (Above, Below)	2 (Above, Below)	2 (Above, Below)	2 (Above, Below)	2 (Above, Below)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Software analysis	PC	PC+APP	PC	PC	PC	PC	PC	PC	PC	PC	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC+APP	PC	PC	PC	PC	PC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Wi-Fi/Bluetooth	—	√/—	—	—	—	—	—	—	—	—	√/—	√/—	√/—	√/—	√/—	—	√	√	√	√	√	√																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Laser pointer	—	—	—	—	—	—	—	—	√	—	—	—	—	√	√	√	√	√	√	√	√	√																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Laser distance measurement	—	—	—	—	—	—	—	—	—	—	—	—	—	√	√	—	—	—	—	—	—	—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
General Characteristics																								Battery	Fixed Li-ion battery (3.7V 1350mAh)	Fixed Li-ion battery (3.7V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.7V 2600mAh)	Fixed Li-ion battery (3.7V 2600mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (7.2V 2300mAh)	Detachable Li-ion battery pack (7.2V 2300mAh)	Detachable Li-ion battery pack (11.1V 2900mAh)	Detachable Li-ion battery pack (7.4V 3400mAh)	Detachable Li-ion battery pack (7.4V 3400mAh)	Battery operation time	≥3.5 hours	≥2 hours (with Wi-Fi off)	≥6 hours	≥7 hours	≥6 hours	≥6 hours	≥6 hours	≥7 hours	≥8 hours	≥7 hours	≥3 hours (with Wi-Fi off)	≥3 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	≥4 hours	≥4 hours	≥4 hours	≥3 hours	≥2 hours	USB	Micro USB	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	HDMI, Micro USB	HDMI, Micro USB	HDMI, Micro USB	Type-C, HDMI	Type-C, HDMI	IP rating	—	IP54	IP65	IP65	IP65	IP65	IP65	IP65	IP54	—	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	Drop proof	1m	1m	2m	2m	2m	2m	2m	2m	2m	—	2m	2m	2m	2m	2m	2m	2m	—	—	—	—	—	Storage	Up to 32GB Micro SD card	4GB Internal	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	16GB Micro SD card	16GB Micro SD card	16GB Micro SD card	16GB Micro SD card	32GB Micro SD card	16GB Micro SD card	16GB Micro SD card	8GB Internal, 32GB External	8GB Internal, 32GB External	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	Image/Video storage format	BMP	JPEG	BMP	BMP	BMP	BMP	BMP	BMP	BMP	BMP	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	Pic: JPEG Video: irgd & MP4	Picture: JPEG Video: irgd	Picture: JPEG Video: irgd	Picture: JPEG Video: dat	Picture: JPEG Video: dat	Certificates	CE, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	—	—	—	Languages	ZH, EN	ZH, EN	ZH, EN, FR, DE, IT, ES, US, ES, EU, PT, EU	ZH, EN	ZH, EN	ZH, EN	ZH, EN	ZH, EN	EN, FR, DE, IT, ES, SV	ZH, EN	EN, FR, DE, ES, RU	EN, FR, DE, ES, RU	EN, FR, DE, IT, ES, SV	EN, FR, DE, IT, ES, SV, PL, CZ	EN, FR, DE, IT, ES, SV, PL, CZ	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	ZH, EN, FR, DE, IT, ES, SV, PL, CZ, PT, RU, JA, KO, NL, HU	ZH, EN, FR, DE, IT, ES, SV, PL, CZ, PT, RU, JA, KO, NL, HU	—	ZH	ZH	Product net weight	125g	212g	490g	490g	490g	490g	490g	490g	310g	301g	654g	654g	806g	654g	654g	880g	880g	840g	840g	1350g	<1.7kg	<1.7kg	Product size	76x76x24mm	205x124x65mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	197x72x60mm	205x124x65mm	260x97x99mm	260x97x99mm	266x126.66x136mm	260x97x99mm	260x97x99mm	261x104x97mm	261x104x97mm	274x106x78mm	274x106x78mm	206x145x135mm	262.5x150.5x91.3mm	237x169.6x89.4mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Battery	Fixed Li-ion battery (3.7V 1350mAh)	Fixed Li-ion battery (3.7V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.6V 5000mAh)	Fixed Li-ion battery (3.7V 2600mAh)	Fixed Li-ion battery (3.7V 2600mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (3.7V 5200mAh)	Detachable Li-ion battery pack (7.2V 2300mAh)	Detachable Li-ion battery pack (7.2V 2300mAh)	Detachable Li-ion battery pack (11.1V 2900mAh)	Detachable Li-ion battery pack (7.4V 3400mAh)	Detachable Li-ion battery pack (7.4V 3400mAh)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Battery operation time	≥3.5 hours	≥2 hours (with Wi-Fi off)	≥6 hours	≥7 hours	≥6 hours	≥6 hours	≥6 hours	≥7 hours	≥8 hours	≥7 hours	≥3 hours (with Wi-Fi off)	≥3 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	About 5 hours (with Wi-Fi off)	≥4 hours	≥4 hours	≥4 hours	≥3 hours	≥2 hours																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
USB	Micro USB	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	Type-C	HDMI, Micro USB	HDMI, Micro USB	HDMI, Micro USB	Type-C, HDMI	Type-C, HDMI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
IP rating	—	IP54	IP65	IP65	IP65	IP65	IP65	IP65	IP54	—	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Drop proof	1m	1m	2m	2m	2m	2m	2m	2m	2m	—	2m	2m	2m	2m	2m	2m	2m	—	—	—	—	—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Storage	Up to 32GB Micro SD card	4GB Internal	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	Up to 32GB Micro SD card	16GB Micro SD card	16GB Micro SD card	16GB Micro SD card	16GB Micro SD card	32GB Micro SD card	16GB Micro SD card	16GB Micro SD card	8GB Internal, 32GB External	8GB Internal, 32GB External	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card	16GB Internal, 16GB Micro SD card																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Image/Video storage format	BMP	JPEG	BMP	BMP	BMP	BMP	BMP	BMP	BMP	BMP	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	JPEG	Pic: JPEG Video: irgd & MP4	Picture: JPEG Video: irgd	Picture: JPEG Video: irgd	Picture: JPEG Video: dat	Picture: JPEG Video: dat																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Certificates	CE, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, UKCA, FCC, RoHS	CE, FCC, RoHS	CE, FCC, RoHS	—	—	—																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Languages	ZH, EN	ZH, EN	ZH, EN, FR, DE, IT, ES, US, ES, EU, PT, EU	ZH, EN	ZH, EN	ZH, EN	ZH, EN	ZH, EN	EN, FR, DE, IT, ES, SV	ZH, EN	EN, FR, DE, ES, RU	EN, FR, DE, ES, RU	EN, FR, DE, IT, ES, SV	EN, FR, DE, IT, ES, SV, PL, CZ	EN, FR, DE, IT, ES, SV, PL, CZ	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	ZH, EN, FR, DE, IT, ES, SV, PL, CZ, PT, RU, JA, KO, NL, HU	ZH, EN, FR, DE, IT, ES, SV, PL, CZ, PT, RU, JA, KO, NL, HU	—	ZH	ZH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Product net weight	125g	212g	490g	490g	490g	490g	490g	490g	310g	301g	654g	654g	806g	654g	654g	880g	880g	840g	840g	1350g	<1.7kg	<1.7kg																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Product size	76x76x24mm	205x124x65mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	236x75.5x86mm	197x72x60mm	205x124x65mm	260x97x99mm	260x97x99mm	266x126.66x136mm	260x97x99mm	260x97x99mm	261x104x97mm	261x104x97mm	274x106x78mm	274x106x78mm	206x145x135mm	262.5x150.5x91.3mm	237x169.6x89.4mm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

Portable Series

Handheld Thermal Cameras

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.



UTi120P



UTi120T

UTi120P

Pocket-sized Thermal Camera

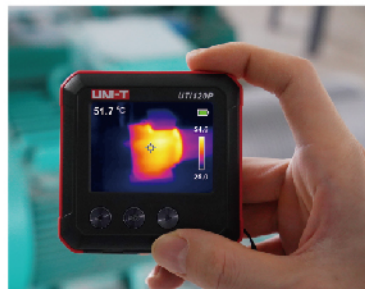
UTi120P thermal camera is mini and portable in size, users can put it into pocket to go anywhere to identify and troubleshoot problems, which can automatically track and alarm high and low temperature. It can be widely used in many applications.



■ UTi120P

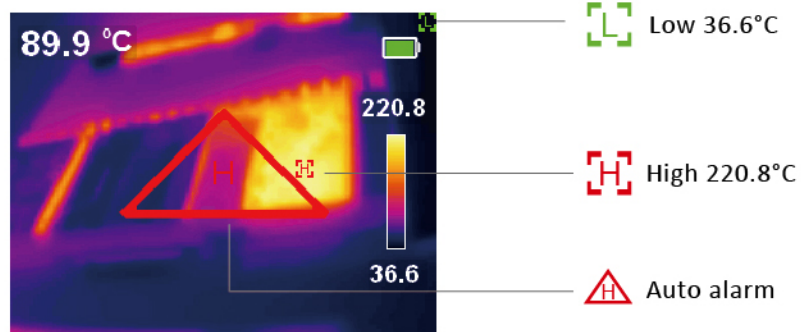
- IR resolution: 120×90
- Temperature range: -20°C~400°C
- Color palettes: 3 (Ironbow, Grey, Rainbow)
- PC software
- Auto-tracking and alarm for high/low temperature
- 1/4" tripod mounting hole
- IP54

» Compact & pocket-sized



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

» Auto tracking and alarm for high/low temperature



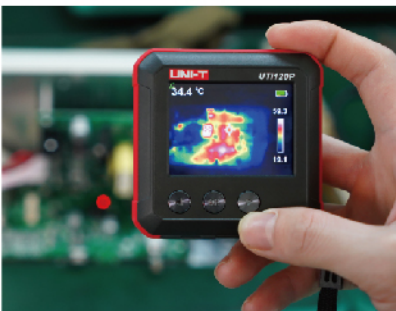
» PC software

- Image review
- Image analysis
- Report sharing




Applications

PCBA inspection, motor inspection, pipeline inspection, house water leakage inspection, power distribution cabinet inspection, automotive maintenance, electricity facilities inspection, mechanical equipment inspection, heating equipment inspection, building & HVAC inspection, etc.



Specifications

Model No.	UTi120P	
Product Photo		
Technical Data		
IR resolution (Pixels)	120×90	
Spatial resolution (IFOV)	7.3mrad	
Thermal sensitivity (NETD)	≤60mK	
Temperature measurement range	-20°C~400°C	
Frame rate	≤25Hz	
Display	2.4" TFT LCD (320×240)	
Field of view (FOV)	50°×38°	
Focus	Focus free	
Accuracy	±2°C or ±2% whichever is greater	
Emissivity	0.01~1.00 adjustable (0.95 default)	
Functions		
Color palettes	3 (Ironbow, Grey, Rainbow)	
Image modes	Thermal	
Hi/Lo temperature alarm	Icon	
Software analysis	PC	
General Characteristics		
Battery	Fixed Li-ion battery (3.7V 1350mAh)	
Battery operation time	≥ 3.5 hours	
USB	Micro USB	
Drop proof	1m	
Storage	Up to 32G Micro SD card	
Image/Video storage format	BMP	
Certificates	CE, RoHS	
Languages	ZH, EN	
Product net weight	125g	
Product size	76mm×76mm×24mm	
Packing Details		
Standard accessories	Hand strap, Carrying bag, Micro SD card, Micro USB cable, English manual, Documents download operation guide card	
Standard individual packing	Gift box	
Standard Qty per carton	5	
Standard carton size	455mm×145mm×150mm	
Standard carton G.W.	2.8kg	



UTi120T

Pocket-sized Thermal Camera

UTi120T is a pocket-sized and compact thermal camera, it can be easily put into pocket, which is very portable for users. Its 3.5" large LCD touch display screen is convenient for users to operate easily. It can automatically track the objective's temperature from $-20^{\circ}\text{C}\sim 400^{\circ}\text{C}$. It also supports Wi-Fi connection through UNI-T Mobile App. With this UTi120T thermal camera in the pocket, users will be ready anytime to diagnose electrical, mechanical, building problems and other potential issues.



■ UTi120T

- 3.5" large touch TFT screen
- IR resolution: 120x90
- Wide temperature range: -20°C to 400°C
- Wi-Fi
- PC software
- With 640x480 digital camera and 1.0~8x continuous digital zoom
- IP54

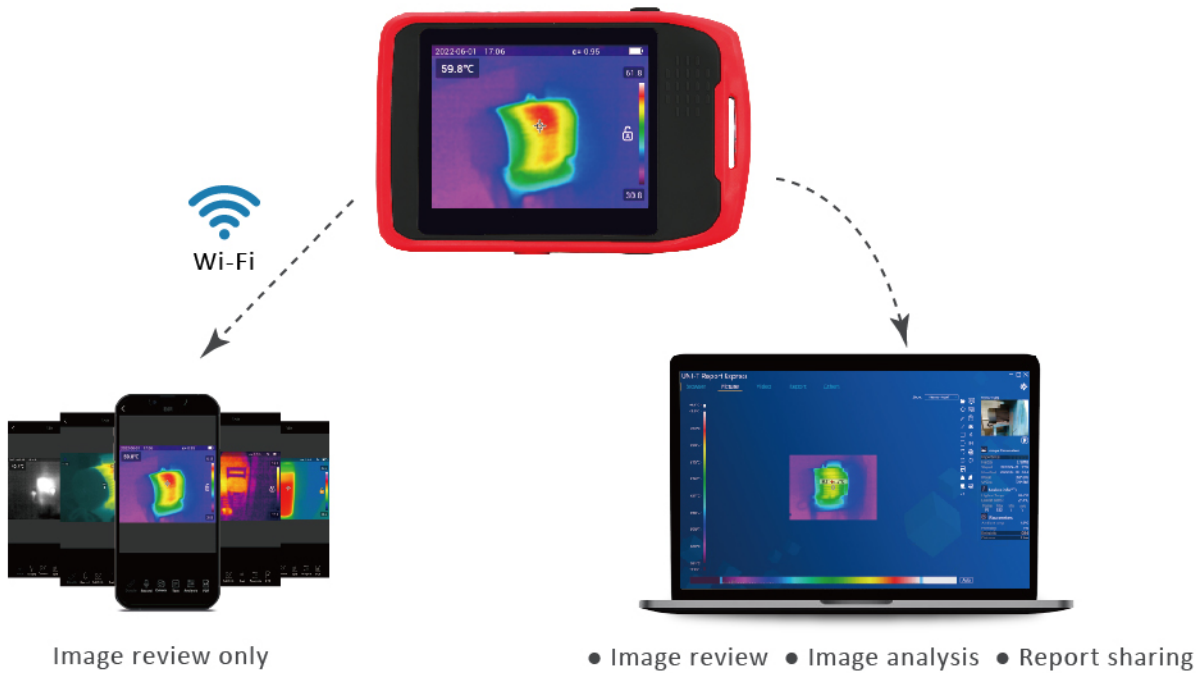


➤ 3.5" large touch screen, easy to operate



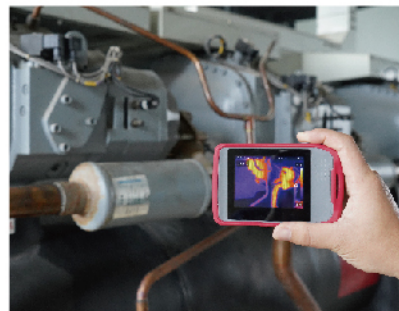
➤ Pocket-sized, lightweight and portable

» Support Wi-Fi connection through UNI-T Mobile App and PC software





Applications

PCBA inspection, motor inspection, pipeline inspection, house water leakage inspection, power distribution cabinet inspection, automotive maintenance, electricity facilities inspection, mechanical equipment inspection, heating equipment inspection, building & HVAC inspection, etc.



Specifications

Model No.	UTi120T	
Product Photo		
Technical Data		
IR resolution (Pixels)	120×90	
Spatial resolution (IFOV)	7.6mrad	
Thermal sensitivity (NETD)	≤60mK	
Temperature measurement range	-20°C~400°C	
Frame rate	≤25Hz	
Display	3.5" TFT Touch (320x240)	
Field of view (FOV)	50°×38°	
Focus	Focus free	
Accuracy	±2°C or ±2% whichever is greater	
Emissivity	0.01~1.00 adjustable (0.95 default)	
Functions		
Color palettes	6 (White hot, Black hot, Ironbow, Hot iron, Arctic, Medical)	
Image modes	Thermal, Visual image, Fusion, PIP	
On screen analyzer	1 Point/1 Rectangle	
Digital camera resolution	640×480	
Digital zoom	1.0~8x continuous	
Hi/Lo temperature alarm	Icon, LED flashlight	
Software analysis	PC+APP	
Wi-Fi	√	
General Characteristics		
Battery	Fixed Li-ion battery (3.7V 5000mAh)	
Battery operation time	≥2 hours (with Wi-Fi off)	
USB	Type-C	
IP rating	IP54	
Drop proof	1m	
Storage	4GB Internal	
Image/Video storage format	JPEG	
Certificates	CE, FCC, RoHS	
Languages	ZH, EN	
Product net weight	212g	
Product size	205mm×124mm×65mm	
Packing Details		
Standard accessories	Hand strap, Carrying Bag, Micro SD card, Type-C USB cable, English manual, Documents download operation guide card, Quick reference guide	
Standard individual packing	Gift box	
Standard Qty per carton	5	
Standard carton size	370mm×250mm×170mm	
Standard carton G.W.	3.6kg	

Heavy Duty Series

Handheld Thermal Cameras

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



Specifications

Model No.	UTi85A	UTi165A+	UTi120B	UTi220B	UTi260B	UTi720A	UTi712S
Product Photo							
Technical Data							
IR resolution (Pixels)	80×60	160×120	120×90	200×150	256×192	256×192	120×90
Display	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.8" TFT LCD (320×240)	2.4" TFT LCD (320×240)
Field of view (FOV)	51°×38°	56°×42°	50°×38°	35°×26°	56°×42°	56°×42.2°	50°×38°
Thermal sensitivity (NETD)	≤150mK	≤50mk	≤60mK	≤100mk	≤50mK	≤50mK	≤60mK
Spatial resolution (IFOV)	11.1mrad	6.1mrad	7.3mrad	3.1mrad	3.8mrad	3.8mrad	7.3mrad
Frame rate	≤9Hz	≤9Hz	≤25Hz	≤9Hz	≤25Hz	≤25Hz	≤25Hz
Temperature measurement range	-10°C~400°C	-10°C~400°C	-20°C~400°C	-10°C~400°C	-20°C~550°C	-20°C~400°C	-20°C~400°C
Focus	Focus free						
Accuracy	±2°C or ±2% whichever is greater						
Emissivity	0.01~1.00 adjustable (0.95 default)						
Functions							
Color palettes	5 (White hot, Red hot, Ice blue, Rainbow, Ironbow)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	5 (White hot, Black hot, Red hot, Ironbow, Rainbow)	7 (Ironbow, White hot, Black hot, Tyrian, Amber, Cool, Rainbow)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	6 (White hot, Black hot, Ironbow, Rainbow HC, Rainbow, Lava)
Image modes	Thermal	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion	Thermal, Visual image, Fusion, PIP	Thermal	Thermal
On screen analyzer	—	3 Points	—	3 Points	3 Points	3 Points	—
Digital camera resolution	—	640×480	640×480	640×480	640×480	—	—
Temperature compensation	—	—	—	—	—	—	√
Laser pointer	—	—	—	—	—	—	√
Hi/Lo temperature alarm	Icon, LED flashlight	Icon, LED flashlight	Icon, LED flashlight, Buzzer	Icon, LED flashlight, Buzzer	Icon, LED flashlight	Icon, LED flashlight	Icon, LED flashlight, Buzzer
Software analysis	PC	PC	PC	PC	PC	PC	PC
General Characteristics							
Battery operation time	≥6 hours	≥7 hours	≥6 hours	≥6 hours	≥6 hours	≥7 hours	≥8 hours
Battery	Fixed Li-ion battery (3.6V 5000mAh)						Fixed Li-ion battery (3.7V 2600mAh)
USB	Type-C						Type-C
IP rating	IP65						IP54
Drop proof	2m						2m
Storage	Up to 32GB Micro SD card						16GB Micro SD Card
Image/Video storage format	BMP						BMP
Certificates	CE, FCC, RoHS						CE, UKCA, FCC, RoHS
Languages	ZH, EN, FR, DE, IT, ES_US, ES_EU, PT_EU	ZH, EN	ZH, EN	ZH, EN	ZH, EN	EN, FR, DE, IT, ES, SV	EN, FR, DE, ES, RU
Product net weight	490g						310g
Product size	236mm×75.5mm×86mm						197mm×72mm×60mm

UTi260B

Heavy Duty Thermal Camera

UTi260B is a featured product of UNI-T heavy duty series thermal cameras. It is cost effective and with wide temperature range: $-20^{\circ}\text{C}\sim 550^{\circ}\text{C}$. It has higher IR resolution: 256x192 pixels than other heavy duty models, and includes 7 color palettes and four display modes: thermal, visual image, fusion, and picture in picture. It is also user friendly and rugged enough to pass IP65 and 2m drop test.

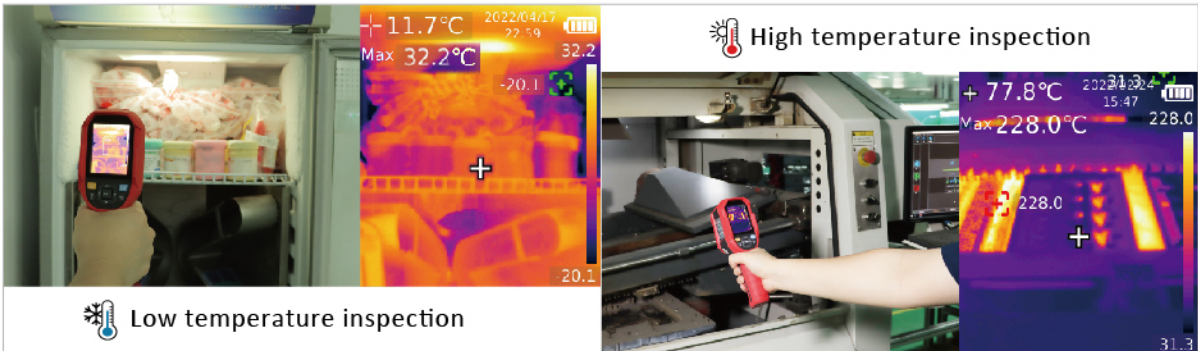


■ UTi260B

- Durable and user-friendly
- IR resolution: 256x192
- Temperature measurement range: $-20^{\circ}\text{C}\sim 550^{\circ}\text{C}$
- Display modes: Thermal, Visual image, Image fusion, Picture in picture
- PC software
- Color palettes: 7(White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)
- IP rating: IP65
- Drop proof: 2m

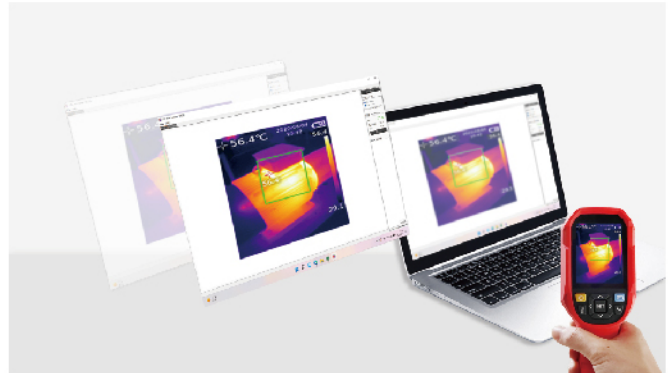


» Wide temperature measurement range: -20°C~550°C



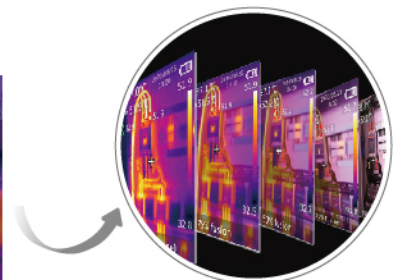
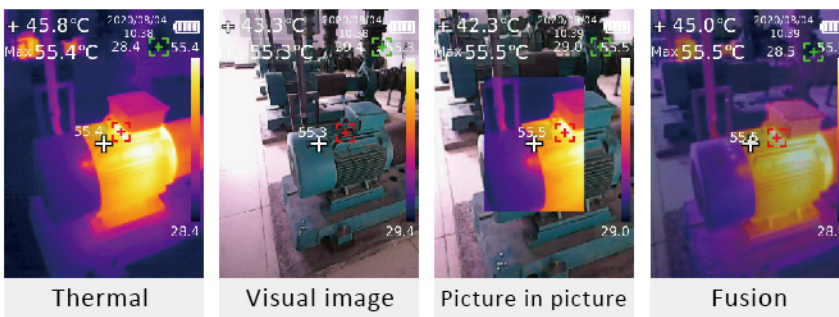
» PC software

- Image review
- Image analysis
- Report sharing



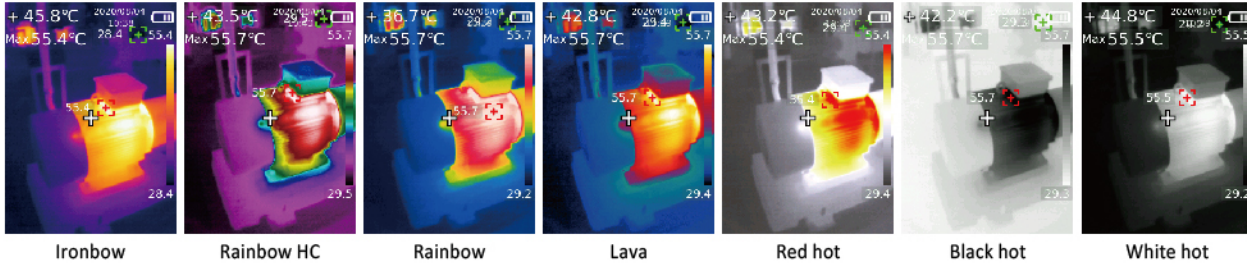
» Real-time image projection

» Four image modes



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

» 7 color palettes



» Solid and durable



IP65 rating



2m drop proof

Applications

PCBA inspection, motor inspection, pipeline inspection, house water leakage inspection, automotive maintenance, solar panel inspection, power distribution cabinet inspection, electricity facilities inspection, mechanical equipment inspection, heating equipment inspection, building & HVAC inspection, etc.



Specifications

Model No.	UTi260B	
Product Photo		
Technical Data		
IR resolution (Pixels)	256×192	
Display	2.8" TFT LCD (320x240)	
Field of view (FOV)	56°×42°	
Thermal sensitivity (NETD)	≤50mK	
Spatial resolution (IFOV)	3.8mrad	
Frame rate	≤25Hz	
Temperature measurement range	-20°C~550°C	
Focus	Focus free	
Accuracy	±2°C or ±2% whichever is greater	
Emissivity	0.01~1.00 adjustable (0.95 default)	
Functions		
Color palettes	7 (White hot, Black hot, Red hot, Ironbow, Lava, Rainbow, Rainbow HC)	
Image modes	Thermal, Visual image, Fusion, PIP	
On screen analyzer	3 Points	
Digital camera resolution	640×480	
Hi/Lo temperature alarm	Icon, LED flashlight	
Software analysis	PC	
General Characteristics		
Battery	Fixed Li-ion battery (3.6V 5000mAh)	
Battery operation time	≥6 hours	
USB	Type-C	
IP rating	IP65	
Drop proof	2m	
Storage	Up to 32GB Micro SD card	
Image/Video storage format	BMP	
Certificates	CE,FCC,RoHS	
Languages	ZH, EN	
Product net weight	490g	
Product size	236mm×75.5mm×86mm	
Packing Details		
Standard accessories	Micro SD card, Type-C USB cable, Adapter, English manual, Documents download operation guide card	
Standard individual packing	Gift box	
Standard Qty per carton	10	
Standard carton size	500mm×315mm×295mm	
Standard carton G.W.	10.1kg	

UTi712S

Cost Effective Thermal Camera

UTi712S is a cost-effective thermal camera with quality build. Some special features include: temperature compensation (allows more accurate readings under different temperature environment), laser pointer, longer battery operation time (more than 8 hours). This rugged thermal camera has IP54 protection and can withstand 2 meters drop. UTi712S also supports 5 languages: English, German, French, Russian, and Spanish.



Laser pointer



LED flashlight

■ UTi712S



Temperature compensation



Long operation time



Buzzer alarm

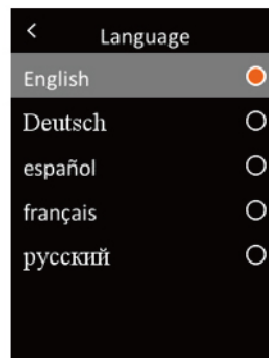
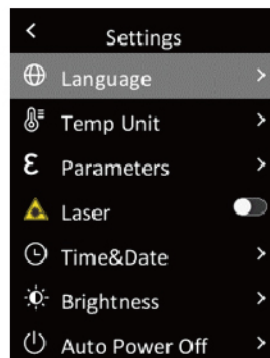


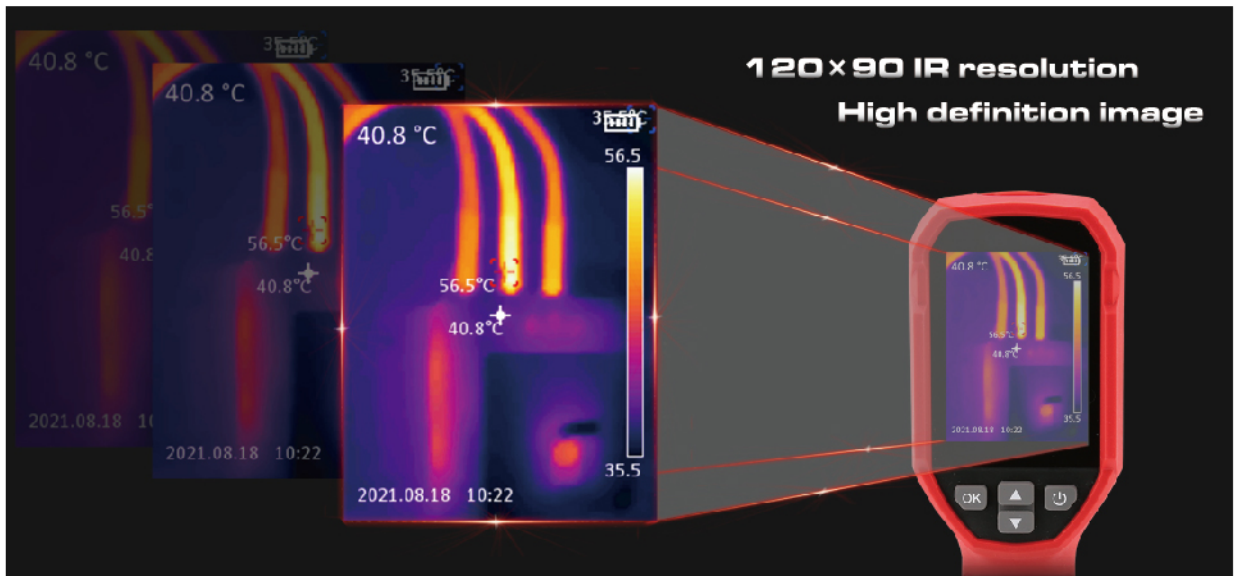
PC software analysis



Laser pointer

» Multi-languages





» Long operation time

More than 8 hours continuous operation time after full charged

» USB Type-C interface




Applications

PCBA inspection, motor inspection, pipeline inspection, house water leakage inspection, automotive maintenance, solar panel inspection, power distribution cabinet inspection, electricity facilities inspection, mechanical equipment inspection, heating equipment inspection, building & HVAC inspection, etc.



Specifications

Model No.	UTi712S	
Product Photo		
Technical Data		
IR resolution (Pixels)	120×90	
Display	2.4" TFT LCD (320×240)	
Field of view (FOV)	50°×38°	
Thermal sensitivity (NETD)	≤60mK	
Spatial resolution (IFOV)	7.3mrad	
Frame rate	≤25Hz	
Focus	Focus free	
Temperature measurement range	-20°C~400°C	
Accuracy	±2°C or ±2% whichever is greater	
Emissivity	0.01~1.00 adjustable (0.95 default)	
Functions		
Color palettes	6 (White hot, Black hot, Ironbow, Rainbow HC , Rainbow, Lava)	
Image modes	Thermal	
Hi/Lo temperature alarm	Icon, LED flashlight, Buzzer	
Software analysis	PC	
Temperature compensation	√	
Laser pointer	√	
General Characteristics		
Battery	Fixed Li-ion battery (3.7V 2600mAh)	
Battery operation time	≥8 hours	
USB	Type-C	
IP rating	IP54	
Drop proof	2m	
Storage	16GB Micro SD Card	
Image/Video storage format	BMP	
Certificates	CE, UKCA, FCC, RoHS	
Languages	EN, FR, DE, ES, RU	
Product net weight	310g	
Product size	197mm×72mm×60mm	
Packing Details		
Standard accessories	Hand strap, Micro SD card, Type-C USB cable, English manual, Documents download operation guide card	
Standard individual packing	Gift box	
Standard Qty per carton	5	
Standard carton size	485mm×260mm×170mm	
Standard carton G.W.	3.2Kg	



Enhanced Series

Handheld Thermal Cameras

UNI-T enhanced thermal cameras provide various functions, such as Wi-Fi capability, multiple measurement tools (include 5 Points, 1 Line, 3 Rectangles, 3 Circles), with 2MP digital camera and flexible Isotherm function. The 3.5" large IPS display screen offers excellent display quality, the detachable 5200mAh Li-ion battery pack is convenient for easy and quick battery change, allowing continuously work for long periods of time.



Wi-Fi



Replaceable
battery



3.5" IPS screen



On screen
analyzer



Flexible
Isotherm



2MP digital
camera



<https://thermal.uni-trend.com>



3.5" IPS display screen

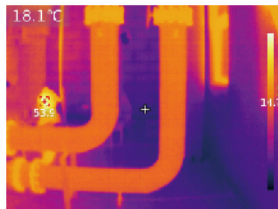
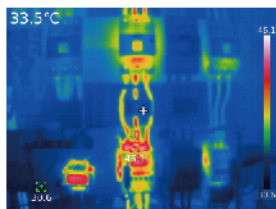
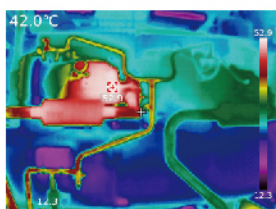


Lens cover

■ UTi720E/UTi730E

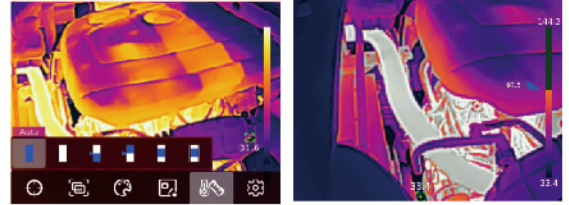
- IR resolution: 256x192 (UTi720E)
320x240 (UTi730E)
- Temperature measurement range:
-20°C~550°C (UTi720E)
-40°C~400°C (UTi730E)
- Digital camera resolution: 2MP
- Digital zoom: 2x, 4x
- Image modes: Thermal, Visual image, Fusion, PIP
- On screen analyzer: 5 Points/1 Line/3 Rectangles/3 Circles
- Color palettes: 7
- Isotherm (Auto/Ratio/Below/Above/Section/Manual)
- PC software
- 3500mAh detachable battery pack
- Drop proof: 2m

» High IR resolution provides high-definition color clarity

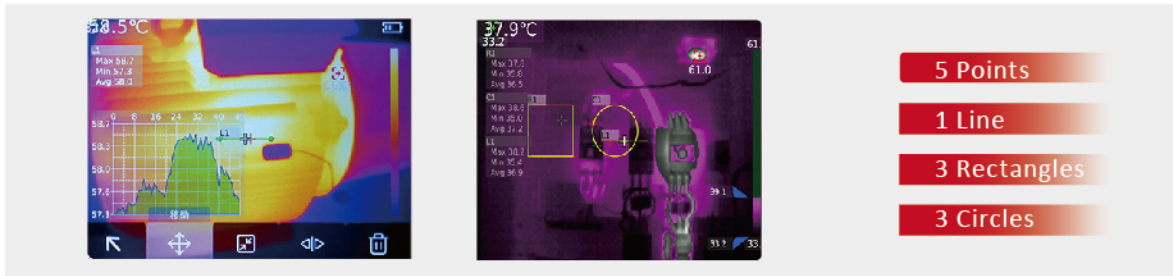


» **Flexible Isotherm**

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



» **On screen analyzer**



» **5200mAh detachable Li-ion battery pack**

- Detachable battery pack with snap-on design
- One click to check battery capacity
- Type-C port
- Two charging modes:
The thermal camera can be charged directly;
The battery pack is detachable to charge separately.



Applications

PCBA inspection, motor inspection, pipeline inspection, house water leakage inspection, automotive maintenance, solar panel inspection, power distribution cabinet inspection, electricity facilities inspection, mechanical equipment inspection, heating equipment inspection, building & HVAC inspection, etc.



Specifications

Model No.	UTI720E	UTI730E
Product Photo		
Technical Data		
IR resolution (Pixels)	256×192	320×240
Spatial resolution (IFOV)	3.8mrad	3mrad
Thermal sensitivity (NETD)	≤50mK @25°C	≤65mK @25°C
Temperature measurement range	-20°C~550°C	-40°C~400°C
Frame rate	≤25Hz	≤9Hz
Field of view (FOV)	56°×42.2°	56°×42°
Display	3.5"IPS (640×480)	
Focus	Focus free	
Accuracy	±2°C or ±2% whichever is greater	
Emissivity	0.01~1.00 adjustable (0.95 default)	
Functions		
Color palettes	7 (White hot, Black hot, Red hot, Ironbow, Rainbow HC, Rainbow, Lava)	
Image modes	Thermal, Visual image, Fusion, PIP	
On screen analyzer	5 Points/1 Line/3 Rectangles/3 Circles	
Digital camera resolution	2MP	
Digital zoom	2x, 4x	
Hi/Lo temperature alarm	Icon, LED flashlight	
Isotherm	6 (Auto/Ratio/Below/Above/Section/Manual)	
Software analysis	PC	
Wi-Fi	√	
General Characteristics		
Battery	Detachable Li-ion battery pack(3.7V 5200mAh)	
Battery operation time	≥3 hours (with Wi-Fi off)	
USB	Type-C	
IP rating	IP54	
Drop proof	2m	
Storage	16GB Micro SD card	
Image storage format	JPEG	
Certificates	CE, UKCA, FCC, RoHS	
Languages	EN, FR, DE, ES, RU	
Product net weight	654g	
Product size	260mm×97mm×99mm	
Packing Details		
Standard accessories	Micro SD card, Type-C USB cable, English manual, Li-ion battery pack, Documents download operation guide card	
Standard individual packing	Toolbox, Gift box	
Standard Qty per carton	1	
Standard carton size	400mm×185mm×345mm	
Standard carton G.W.	3.6kg	



Pro Series

Handheld Thermal Cameras

UNI-T Pro series thermal cameras come with various advanced functions compared to other series, such as Wi-Fi, Bluetooth, GPS, voice recording, video recording, higher measurement temperature range (some models can measure low temperature down to -40°C and high temperature up to 2000°C with optional lens). With these outstanding features and functions, Pro series can be widely used in many industrial applications and help engineers to obtain necessary data for troubleshooting.



UTi192M/UTi384M

Intelligent Pro-grade Thermal Camera

UTi192M/UTi384M inherits the classic functions of high-end infrared thermal imagers, with simple appearance and ergonomic design. The touch-display screen menu navigation interface is convenient for users to operate easily. There are professional tips for each step, so that first-time users can also become experts! UTi192M/UTi384M is equipped with a high intensity light, so that users can easily take clear visible light and infrared contrast pictures, easier to find abnormalities. We also offer a wide range of high quality optional infrared lenses with higher temperature (1500°C) for different applications.



4" LCD Touch screen

■ UTi192M/UTi384M



Manual focus



Video recording



Voice recording



Bluetooth



Laser pointer



5MP digital camera



Wi-Fi



» Professional lens



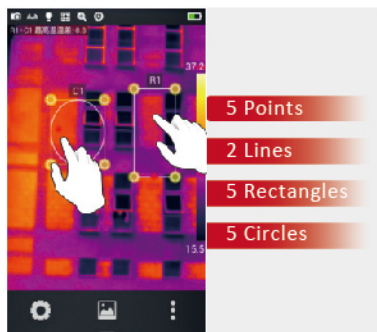
With 1.0~4x continuous digital zoom, support manual focus, the standard lens can measure the temperature range from -20°C to 650°C, optional high temperature lens can measure 650°C~1500°C.

» PC Software & Wi-Fi connection

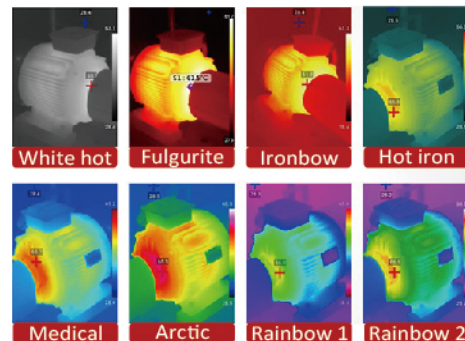
- Image review
- Image analysis
- Report sharing
- Real-time display



» On screen analyzer

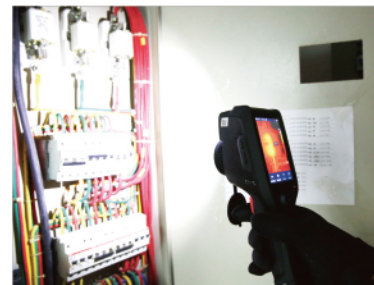
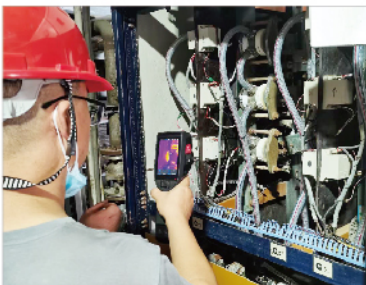


» 8 Color palettes




Applications

Solar panel inspection, electric power tower inspection, electricity facilities inspection, mechanical equipment inspection, heating equipment inspection, building & HVAC inspection and other wide range applications: petrochemical, metallurgy, industry, etc.



Specifications

Model No.	UTi192M	UTi384M
Product Photo		
Technical Data		
IR resolution (Pixels)	192×144	384×288
Display	4" LCD Touch (800×480)	4" LCD Touch (800×480)
Field of view (FOV)	37.8°×28.8°	28.4°×21.5°
Thermal sensitivity (NETD)	≤50mk	≤45mK
Spatial resolution (IFOV)	3.45mrad	1.29mrad
Frame rate	≤25Hz	
Focus	Manual focus	
Temperature measurement range	-20~650°C (Standard Lens) 650~1500°C (optional Lens)	
Accuracy	±2°C or ±2% whichever is greater	
Emissivity	0.01~1.00 adjustable (0.95 default)	
Functions		
Color palettes	8 (White hot, Fulgurite, Ironbow, Hot iron, Medical, Arctic, Rainbow 1, Rainbow 2)	
Image modes	Thermal, Visual image, Fusion, PIP	
On screen analyzer	5 Points/2 Lines/5 Rectangles/5 Circles	
Digital camera resolution	5MP	
Digital zoom	1.0~4x continuous	
Hi/Lo temperature alarm	Icon, LED flashlight, Buzzer	
Isotherm	2 (Above, Below)	
Software analysis	PC	
Video recording	√	
Voice recording	√	
Wi-Fi	√	
Bluetooth	√	
Laser pointer	√	
General Characteristics		
Battery	Detachable Li-ion battery pack (7.2V 2300mAh)	
Battery operation time	≥ 4 hours	
USB	HDMI, Micro USB	
IP rating	IP54	
Storage	16GB Internal, 16GB Micro SD card	
Image/Video storage format	Picture: JGEG Video: irgd	
Certificates	CE, FCC, RoHS	
Languages	ZH, EN, FR, DE, IT, ES, SV, PL, CZ, PT, RU, JA, KO, NL, HU	
Product net weight	840g	
Product size	274mm×106mm×78mm	
Packing Details		
Standard accessories	Lithium battery, Adapter, Adapter plugs, USB cable, Wristband, HDMI cable, CTP gloves, Quick start guide, English manual, TF card	
Standard individual packing	Toolbox, Gift box	
Standard Qty per carton	1	
Standard carton size	480mm×370mm×235mm	
Standard carton G.W.	4kg	

UTi640C

Intelligent Pro-grade Thermal Camera

UTi640C is the flagship model for UNI-T brand. Like smartphones, it is specially designed for the users who work in the infrared temperature measurement industry. UTi640C adopts infrared sensors with high sensitivity and resolution, which provides crystal clear infrared images along with higher temperature measurement range and accuracy. Other features include Android operating system, large display screen display, and rotating lens structure.

UTi640C can also synchronously collect visible and infrared images, and display key observation positions by PIP and MIF methods. At the same time, through the open Android platform application, it can be extended to a multi-purpose mobile infrared thermal image application platform. Giving users more outstanding visual effects and convenient operation experience.



■ UTi640C



Video recording



Voice recording



Bluetooth



Laser pointer



5MP Digital
Camera



Wi-Fi



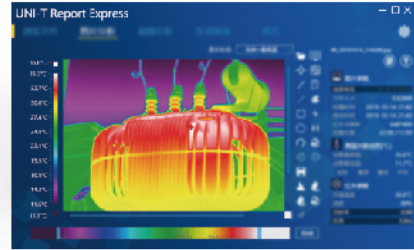
GPS

» PC Software & Wi-Fi connection

- Image review
- Image analysis
- Report sharing
- Real-time display



Wi-Fi



» Rotatable screen and lens



180° horizontal rotation



270° vertical rotation



70° upward rotation of lens

» Optional lens for different applications



Wide-angle lens



Macro lens



Telephoto lens





High temperature lens
(Temperature can reach 2000°C)

Applications

Solar panel inspection, electric power tower inspection, electricity facilities inspection, mechanical equipment inspection, heating equipment inspection, building&HVAC inspection and other wide range applications: petro chemical, metallurgy, industry, etc.



Specifications

Model No.	UTi640C	
Product Photo		
Technical Data		
IR resolution (Pixels)	640×480	
Display	5" TFT LCD Touch (1280×720)	
Field of view (FOV)	24.6°×18.5°	
Thermal sensitivity (NETD)	≤30mk	
Spatial resolution (IFOV)	0.67mrad	
Frame rate	≤25Hz/9Hz	
Focus	Electric/Automatic	
Temperature measurement range	-20°C~150°C, 150°C~800°C (standard lens), 800°C~2000°C (optional lens)	
Accuracy	±2°C or ±2% whichever is greater (standard lens) ±1°C or ±1% whichever is greater (optional lens)	
Emissivity	0.01~1.00 adjustable (0.95 default)	
Functions		
Color palettes	10 (White hot, Lava, Ironbow, Hot iron, Medical, North pole, Rainbow1, Rainbow2, Black hot, Red)	
Image modes	Thermal, Visual image, Fusion, PIP	
On screen analyzer	10 Points/5 Lines/5 Rectangles/5 Circles	
Digital camera resolution	5MP	
Digital zoom	1.0~10x continuous	
Hi/Lo temperature alarm	Icon, LED flashlight, Buzzer	
Isotherm	2 (Above, Below)	
Software analysis	PC	
Video recording	√	
Voice recording	√	
Wi-Fi	√	
Bluetooth	√	
GPS	√	
Laser pointer	√	
General Characteristics		
Battery	Detachable Li-ion battery pack (11.1V 2900mAh)	
Battery operation time	≥ 4 hours	
USB	HDMI, Micro USB	
IP rating	IP54	
Storage	16GB Internal, 16GB Micro SD card	
Image/Video storage format	Picture: JGEG Video: irgd	
Languages	ZH, EN, FR, DE, IT, ES, SV, PL, CZ, PT, RU, JA, KO, NL, HU	
Product net weight	1350g	
Product size	206mm×145mm×135mm	
Packing Details		
Standard accessories	Li-ion battery, Adapter, Adapter plug (5 pcs), 16GB SD Card, Shoulder strap, USB cable, HDMI cable, Ethernet cable, CD-ROM, User Manual, Quick operation manual, Parts list	
Standard individual packing	Toolbox, Gift box	
Standard Qty per carton	1	
Standard carton size	480mm×370mm×235mm	
Standard carton G.W.	7.6kg	

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 image viewing, download and analysis.



UTi120M/UTi120MS/UTi720M/UTi721M

Smartphone Thermal Camera

UTi120M/UTi120MS/UTi720M/UTi721M are professional thermal camera modules for smartphones, which are compact, portable, and easy to operate through connecting with mobile phones. They are with different specifications for different user's requirements. UTi120M/UTi120MS are the based models with 120×90 IR resolution and -20°C~400°C temperature range, UTi120M is for Android and UTi120MS is for iOS. UTi720M/UTi721M are with higher IR resolution 256×192 for Android, UTi720M's temperature range is -20°C~200°C, UTi721M is -20°C~550°C. UTi721M also includes two measurements modes for both elevated skin temperature inspection and industry applications. They are perfect tools for DIY homeowners, outdoor lovers, engineers, contractors and builders, etc.



- IR resolution:
 - 120x90 (UTi120M/UTi120MS)
 - 256x192 (UTi720M/UTi721M)
- Temperature measurement range:
 - 20°C to 400°C (UTi120M/UTi120MS)
 - 20°C to 200°C (UTi720M)
 - 20°C to 550°C (UTi721M)
- Video recording
- Auto alarm and tracking for high/low temperature
- Color palettes: 7
- Operating system:
 - Android (UTi120M/UTi720M/UTi721M)
 - iOS (UTi120MS)
- USB: Type-C (UTi120M/UTi720M/UTi721M)
Lightning (UTi120MS)
- On screen analyzer:
 - 6 Points/6 Lines/6 Rectangles/6 Circles (UTi120M/UTi120MS)
 - 3 Points/3 Lines/3 Rectangles (UTi720M/UTi721M)
- 1m extension cable (UTi120M/UTi720M/UTi721M)

» Multiple connection modes (UTi120M)



1 Type-C extension USB cable connection

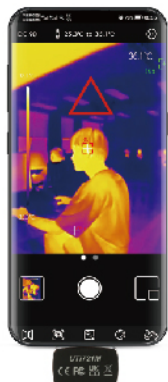


2 Micro USB adapter connection

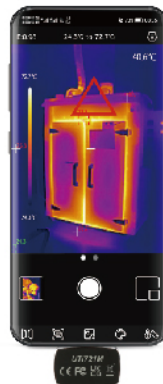


3 Direct connection (Type-C interface)

» Two measurement modes of UTi721M



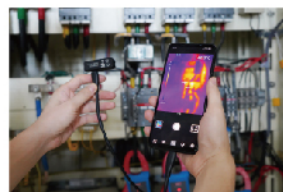
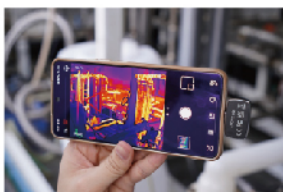
For Elevated Skin Temperature



For Industry

Applications

PCBA inspection, power distribution cabinet inspection, house water leakage inspection, pipeline inspection, HVAC & Building, outdoor & night vision, elevated skin temperature, etc.



Specifications

Model No.	UTi120M	UTi120MS	UTi720M	UTi721M
Product Photo				
Technical Data				
IR resolution (Pixels)	120×90	120×90	256×192	256×192
Field of view (FOV)	50°×38°	50°×38°	56.0°×42.2°	56.0°×42.2°
Thermal sensitivity (NETD)	≤60mK @25°C	≤60mK @25°C	≤50mK @25°C	≤50mK @25°C
Spatial resolution (IFOV)	7.3mrad	7.3mrad	3.8mrad	3.8mrad
Frame rate	≤25Hz	≤25Hz	≤25Hz	≤25Hz
Focus	Focus free	Focus free	Focus free	Focus free
Lens focal length	2.28mm	2.28mm	3.2mm	3.2mm
Temperature measurement range	-20°C~400°C	-20°C~400°C	-20°C~200°C	-20°C~550°C
Measurement modes	Industry	Industry	Industry	Industry, EST(Elevated Skin Temperature)
Accuracy	±2° or ±2% whichever is greater	±2° or ±2% whichever is greater	±2° or ±2% whichever is greater	Industry: ±2° or ±2% whichever is greater (0°C~550°C) EST: ±0.5° (30°C~40°C)
Emissivity	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)	0.01~1.00 adjustable (0.95 default)
Functions				
Color palettes	7 (White hot, Lava, Ironbow, Black hot, Red hot, Rainbow, Rainbow HC)			
On screen analyzer	6 Points/6 Lines/6 Rectangles/6 Circles		3 Points/3 Lines/3 Rectangles	
Auto alarm for high/low temperature	√		√	
Video recording	√		√	
General Characteristics				
USB	Type-C	Lightning	Type-C	Type-C
Drop proof	2m	1m	1m	1m
Image/Video storage format	Picture: JPEG Video: MP4	Picture: JPEG Video: MP4	Picture: JPEG Video: MP4	Picture: JPEG Video: MP4
Certificates	CE,UKCA,FCC,RoHS	CE,UKCA,FCC,RoHS,MFi	CE,UKCA,FCC,RoHS	CE,UKCA,FCC,RoHS
Languages	ZH, EN	ZH, EN	ZH, EN, FR, DE, IT, ES, SV	ZH, EN, FR, DE, IT, ES, SV
Product net weight	25g	25g	12g	12g
Product size	53mm×18.2mm×18.5mm	53mm×18.2mm×18.5mm	33mm×28.2mm×11.3mm	33mm×28.2mm×11.3mm
Packing Details				
Standard accessories	UTi120M: Micro USB adapter, USB cable, English manual, Documents download operation guide card UTi120MS: English manual, Documents download operation guide card UTi720M/UTi721M: USB cable, English manual, Documents download operation guide card		(UTi120M) (UTi720M/UTi721M)	
Standard individual packing	Gift Box			
Standard Qty per carton	20pcs			
Standard carton size	290mm×265mm×325mm			
Standard carton G.W.	4.8kg(UTi120M/UTi120MS); 4.4kg (UTi720M/UTi721M)			

Thermal Imaging Monoculars

Thermal imaging monoculars are tailored to outdoor lovers, designed with convenience and ease of use in mind. This series is also ergonomic and lightweight, with excellent imaging, making it a perfect tool for hunting and search and rescue.



UTx313/UTx318/UTx325

Thermal Imaging Monoculars

UTx313/UTx318/UTx325 are lightweight and portable thermal imaging monoculars that equipped with 384×288 infrared detector and 1280×960 0.4"LCOS display. The thermal imaging monocular can take photos, storage and connect to the external screen for viewing. The 50Hz frame frequency enables users to observe moving objects without delay. With laser pointer and hot spot tracking take accurately location and tracking. It can be widely used in many applications: outdoor observation, hunting, navigation, security, camping & search, law enforcement, firefighting etc.



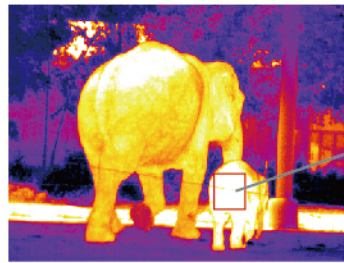
Optional external display



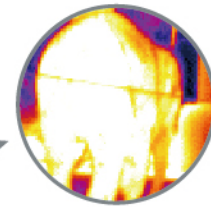
- IR resolution: 384×288
- Display: 0.4"LCOS (1280×960)
- Hot trace
- Laser pointer
- Lightweight and portable
- Color palettes: 5(Blackhot, Whitehot, Hottest, Ironbow, Rainbow)
- With optional external display
- IP67
- Drop proof: 2m

» **Hot trace**

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



Hot trace - On



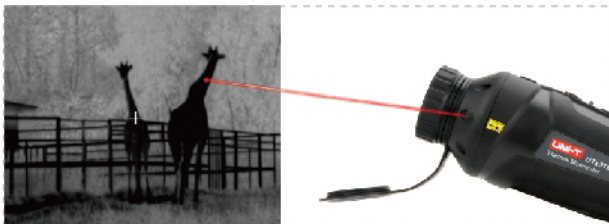
Hottest area

» **Digital Details Enhancement**

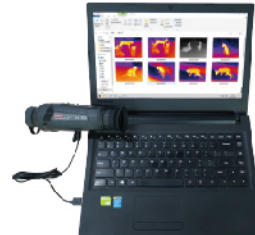


DDE is an improved algorithm, which remains details on the images with high dynamic range, assists users to collect more details in scenarios with extreme dynamic range.

» **Laser pointer & Center spot mark**



» **Photo review**



Applications

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



Specifications

Model No.	UTx313	UTx318	UTx325
Product Photo			
Technical Data			
Lens focal length	13.5mm/F1.0	18mm/F1.0	25mm/F1.0
Field of view(FOV)	20.3°×15.2°	14.6°×11°	10.5°×7.9°
Detector type	UFPA (Vanadium oxide)		
IR resolution	384×288		
Pixel size	12μm		
Spectral range	8-14μm		
Thermal sensitivity(NETD)	≤40mK		
Focus	Manual focus		
Frame rate	≤50Hz		
Display	0.4"LCOS		
Display resolution	1280×960		
Storage	16GB Internal		
USB	Type-C		
Battery	3.6V/4000mAh Li-ion battery		
Battery operation time	≥8 Hours		
IP rating	IP67		
Drop proof	2m		
Certificates	UL,RoHS,CE,UKCA		
Languages	ZH, EN		
Product net weight	428g		
Product Size	207.6mm×62mm×62mm		
Function			
Digital zoom	2x, 4x/1.0~4x continuous		
Color palettes	5 (Blackhot, Whitehot, Hottest, Ironbow, Rainbow)		
Hot trace	√		
Calibration modes	Shutter, Background, Auto		
DDE (Digital Detail Enhancement)	Details & Edge		
Laser pointer	√ (650nm)		
Photo capture	√		
Photo review	√		
Video output	MCX interface		
Packing Details			
Standard accessories	Type-C USB cable, English Manual		
Standard individual packing	Gift Box		
Standard Qty per carton	1pcs		
Standard carton size	370mm×140mm×275mm		
Standard carton G.W.	1.9kg		

Elevated Skin Temperature Thermal Cameras

UNI-T EST thermal cameras can quickly and effectively measure surface temperatures to identify elevated body temperature. These ergonomic devices can also be mounted on a tripod and set in public locations, such as schools, shopping malls, airport and other high traffic areas. These thermal cameras are with PC software (support data review, analysis and report sharing), they also support real-time projection to display the image and data on a large monitor and automatically track and alarm for high temperature.



Elevated Skin Temperature Thermal Cameras

UNI-T®

UTi85H+/UTi165K/UTi220K/UTi260K EST (Elevated Skin Temperature) Thermal Cameras

- Durable and user-friendly
- 2.8" TFT display screen (320x240)
- Temperature measurement range: 30°C to 45°C
- Auto alarm for high temperature
- Image modes: Thermal, Visual image, Fusion
- PC software analysis
- Real-time image projection
- ROI
- LED flashlight
- Rechargeable Li-ion battery
- 1/4" tripod mount hole



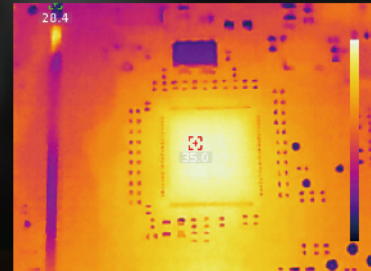
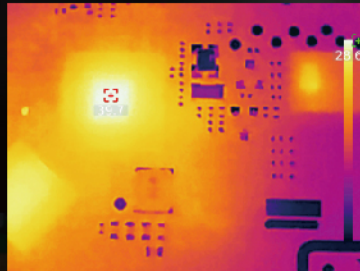
■ UTi260K

Models	UTi85H+	UTi165K	UTi220K	UTi260K
Technical Data				
IR resolution (Pixels)	80×60	160×120	200×150	256×192
Field of view(FOV)	51°×38°	56°×42°	35°×26°	56°×42°
Thermal sensitivity(NETD)	≤150mk	≤50mk	≤100mk	≤60mk
Spatial resolution(IFOV)	11.1mrad	6.1mrad	3.1mrad	3.8mrad
Frame rate	≤9Hz	≤9Hz	≤9Hz	≤25Hz
Display	2.8" TFT LCD (320×240)			
Temperature measurement range	30°C~45°C (86°F~113°F)			
Accuracy	±0.5° (@25°C ambient temperature)			
Functions				
Color palettes	5 (White hot, Red hot, Ice blue, Rainbow, Ironbow)	7 (Ironbow, Rainbow, White hot, Black hot, Red hot, Lava, Rainbow HC)	7 (Ironbow, Rainbow, White hot, Black hot, Tyrian, Amber, Cool)	7 (Ironbow, Rainbow, White hot, Black hot, Red hot, Lava, Rainbow HC)
Image modes	Thermal	Thermal, Visual Image, Fusion	Thermal, Visual Image	Thermal, Visual Image, Fusion, PIP
Digital camera resolution	—	640x480	640x480	640x480
Auto alarm for high/ low temperature	Icon, LED flashlight, Buzzer	Icon, LED flashlight	Icon, LED flashlight, Buzzer	Icon, LED flashlight
Software analysis	PC			
General Characteristics				
Battery	Fixed Li-ion battery (3.6V 5000mAh)			
Battery operation time	≥ 6 hours			
USB	Type-C			
Storage	32G Micro SD card			
Image/Video storage format	BMP			
Certificates	CE, FCC, RoHS			
Languages	ZH, EN, FR, DE, IT, ES_US, ES_EU, PT_EU	ZH, EN	ZH, EN	ZH, EN
Product net weight	910g			
Product Size	236mm×75.5mm×86mm			
Packing Details				
Standard accessories	Type-C USB cable, Micro SD card, English manual			
Standard individual packing	Gift Box			
Standard Qty per carton	10pcs			
Standard carton size	500mm×315mm×295mm			
Standard carton G.W.	2.2kg			

Accessories

UT-Z002 Macro Lens

Applicable to UTi260B/UTi720A



UT-Z003 Macro Lens

Applicable to UTi730E/UTi720E/UTi730V/UTi720V



UT-M17 Li-ion battery pack

Applicable to UNI-T E/V/H/G series thermal camera



USB Type-C



Large capacity



Snap-on design



LED indicator



Overcharge protection



The battery pack is detachable.



The battery can be charged directly.

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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Website: <https://thermal.uni-trend.com/> (for thermal cameras products)

Please visit UNI-T's group website: www.uni-trend.com to know about full product listing.

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