

UNI-T

UTi760X

Expert Thermal Imager



reddot winner 2026



Interchangeable
Lens



Automatic Lens
Calibration



Multiple Focus
Modes



Super resolution



T-Mix



High-accuracy
Measurement



5" Touch Screen



-20°C~2200°C



Smart Meter



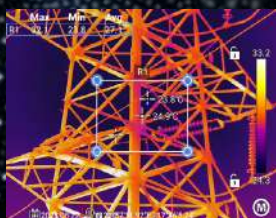
AI Voice



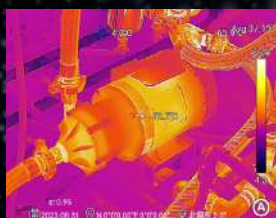
Laser Rangefinder



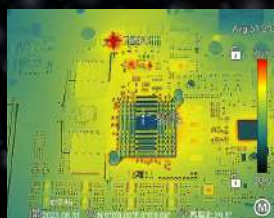
OTA Upgrade



Power Tower



Electrical Equipment



PCB R&D



Pipeline Inspection

Specifications

Model No.		UTi760X				
Technical Data						
Display	5" IPS Touch (1280×720)					
IR resolution(Pixels)	640×512					
Super resolution(Pixels)	1280×1024					
Spectral range	7.5~14μm					
Pixel size	12μm					
Frame rate	30Hz					
Thermal sensitivity(NETD)	<35mK					
Focus mode	Touch AF/Continuous AF/Contrast AF/Laser AF/Manual					
Focusing time	<2s					
Lens recognition	√					
Lens calibration	Automatic					
Lens model	UT-Z042	UT-Z043	UT-Z044	UT-Z045	UT-Z046	UT-Z047
Lens	Standard	Wide-angle	Telephoto	Ultra Telephoto	High Temperature	Marco
Lens focal length	18mm	9.6mm	36mm	62.8mm	18mm	18mm
Aperture	F1.0	F1.0	F1.0	F1.3	F1.0	F1.1
Field of view(FOV)	24°(H)×19.3°(V)	46°(H)×37°(V)	12°(H)×9.6°(V)	7°(H)×5.6°(V)	24°(H)×19.3°(V)	—
Spatial resolution(IFOV)	0.66mrad	1.28mrad	0.33mrad	0.19mrad	0.66mrad	—
Minimum imaging distance	0.15m (Min)	0.1m (Min)	1m (Min)	2m (Min)	0.15m (Min)	20~38mm
Temperature measurement range	Conventional Lens: -20 ℃ ~ 1200 ℃ High Temp. Lens: 1000 ℃ ~ 2200 ℃ (select model No.: UTi760XH)					
Accuracy	For -20 ℃ ~120 ℃ , ±1.0 ℃ /±1.0% (0 ℃ ~120 ℃) , ±2.0 ℃ (-10 ℃ ~0 ℃) For 0 ℃ ~600 ℃ , ±1.5 ℃ /±1.5% (20 ℃ ~600 ℃) For 500 ℃ ~1200 ℃ , ±1.5% For -20 ℃ ~100 ℃ , ±2.0 ℃ (-10 ℃ ~100 ℃) For 1000 ℃ ~2200 ℃ , ±1.5% (whichever is greater, room temperature of 25 ℃ , conventional lens)					
Functions						
Color palettes	White Hot, Black Hot, Red Hot, Ironbow, Rainbow, Rainbow HC, Lava. Customized palette & color inversion are supported					
Image modes	Thermal, Visual image, Fusion, T-Mix, PIP, dual-channel image					
On screen analyzer	Points/Lines/Rectangles/Circles. At most 16. T-select is supported					
Level & span	Auto/Manual/Touch					
HI/LO temperature alarm	LCD animation, LED flashlight, Buzzer					
ROI correction	Supports regional emissivity correction					
Digital camera resolution	13MP					
Digital zoom	√	Photo capturing/video recording			√	
Full-screen thermal radiometric video stream	√	QR code scanning			√	
T-Sharp	√	T-Contrast			√	
AI voice	√	Text/voice annotation			√	
Smart meter	√	OTA upgrade			√	
HDMI display extension	√	WiFi/Wi-Fi live streaming			√	
Bluetooth/GPS	√	Laser pointer/LED lighting			√	
LRF	0.1~50m (Class 2, red)					
Analysis software	PC+APP					
General Characteristics						
Battery	7.2V/5000mAh rechargeable & detachable Li-ion battery pack(UT-M25)					
Operating time	≥5 hours					
Charging system	Type-C direct charging / Independent charging of the battery pack					
Charging time	Charging to 90% in 2.5 hours (Power off charging or independent charging of the battery pack)					
USB	Type-C USB, Micro HDMI					
Storage	Built-in 128G, support SD expansion					
Image storage format	JPG					
Video storage format	MP4/UIR					
Working temperature	-20℃~55℃					
Storage temperature	-40℃~60℃					
Working humidity	10%~95%RH, noncondensing					
Protection	IP54 & 2m drop proof					
Certificates	CE, FCC, RoHS					
Languages	EN, FR, DE, IT, ES, SV, PL, CS					



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