

UNI-T

UTi740X

Expert Thermal Imager



Interchangeable
Lens



Automatic Lens
Calibration



Multiple Focus
Modes



Super resolution



T-Mix



High-accuracy
Measurement



5" Touch Screen



-20°C~2200°C



Smart Meter



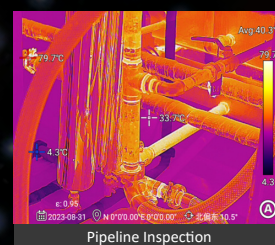
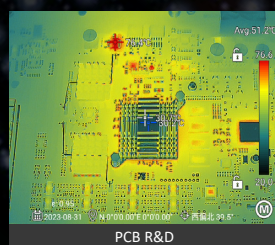
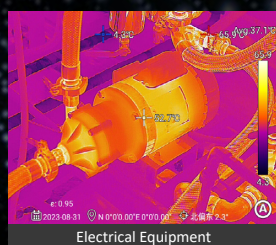
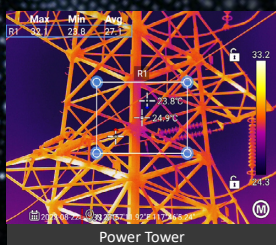
AI Voice



Laser Rangefinder



OTA Upgrade



Specifications

Model No.		UTi740X				
Technical Data						
Display	5" IPS Touch (1280×720)					
IR resolution(Pixels)	400×300					
Super resolution(Pixels)	800×600					
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-Z048	UT-Z049	UT-Z050	UT-Z051	UT-Z052	UT-Z053
Lens	Standard	Wide-angle	Telephoto	Ultra Telephoto	High Temperature	Marco
Lens focal length	9.6mm	6mm	18mm	36mm	18mm	18mm
Aperture	F1.0	F1.0	F1.0	F1.3	F1.0	F1.1
Field of view(FOV)	27.7°(H)×20.6°(V)	46°(H)×34°(V)	14.6°(H)×10.9°(V)	7.2°(H)×5.5°(V)	14.6°(H)×10.9°(V)	—
Spatial resolution(IFOV)	1.28mrad	2.1mrad	0.66mrad	0.33mrad	0.66mrad	—
Minimum imaging distance	0.1m (Min)	0.1m (Min)	0.15m (Min)	1m (Min)	0.15m (Min)	24~42mm
Temperature measurement range	Conventional Lens: -20℃ ~ 1200℃ High Temp. Lens: 1000℃ ~ 2200℃ (select model No.: UTi740XH)					
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	√	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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