

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



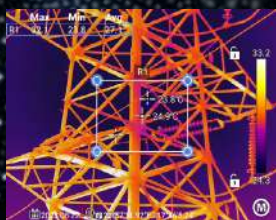
AI Voice



Laser Rangefinder



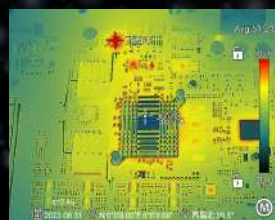
OTA Upgrade



Power Tower



Electrical Equipment



PCB R&D



Pipeline Inspection

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/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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