

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



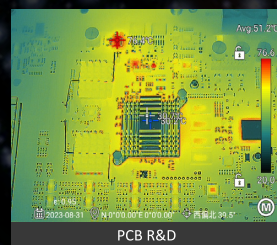
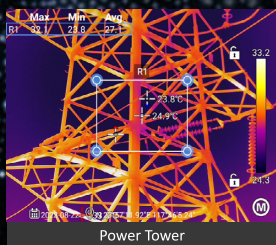
AI Voice



Laser Rangefinder



OTA Upgrade



Specifications

Model No.		UTi740X					
Technical Data							
Display	5" IPS Touch (1280×720)						
IR resolution(Pixels)	384×288						
Super resolution(Pixels)	768×576						
Spectral range	7.5~14μm						
Pixel size	12μm						
Frame rate	30Hz						
Thermal sensitivity(NETD)	35mK						
Focus mode	Continuous AF/Semi-auto Focus/Laser Assisted Focus/Touch AF/Manual Focus						
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	50μm	
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 C ~ 1200 C High Temp. Lens: 1000 C ~ 2200 C						
Accuracy	For -20 C~120 C, ±1.0 C/±1.0% (0 C~120 C), ±2.0 C (-10 C~0 C) For 0 C~600 C, ±1.5 C/±1.5% (20 C~600 C) For 500 C~1200 C, ±1.5% For -20 C~100 C, ±2.0 C (-10 C~100 C) For 1000 C~2200 C, ±1.5% (whichever is greater, room temperature of 25 C, 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	16 Points/16 Lines/16 Rectangles/16 Circles. 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°C~55°C						
Storage temperature	-40°C~60°C						
Working humidity	10%~95%RH, noncondensing						
Protection	IP54 & 2m drop proof						
Certificates	CE, FCC, RoHS						
Languages	EN, FR, DE, IT, ES, SV, PL, CZ						

