T50|T70

Thermal Imaging Camera

T50|T70 is the latest expert-level thermal imaging camera of ULIRVISION.
Product adopts 384×288 | 640×480 high-pixel aSi microthermal detector, manual & auto integrated lens, 180° rotation, laser assisted focusing, excellent imaging quality, and meets the strict requirements of industrial market for high-end thermal camera.

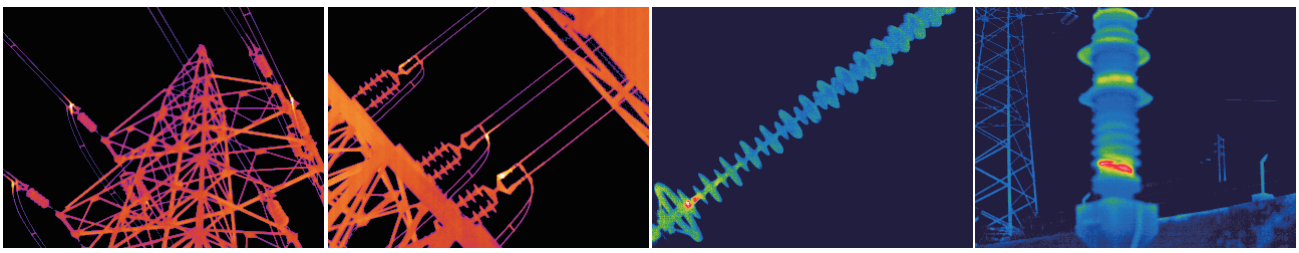


PRODUCT FEATURE

- **384×288 | 640×480** Uncooled detector
- Continuous auto focusing | laser assisted focusing
- Automatic lens recognition, **180°** rotation
- Infrared | Visible Light | PIP | DSX, multiple image modes
- Multiple measure modes: high and low temp auto tracking, line temp measure, isothermal analysis, area temp measure
- **5"** Touch screen, HD viewfinder, clearly visible in the sun
- **GPS**, **Compass** azimuth information is saved with the image

APPLICATION CASE

- Building Diagnostics
- Automation Applications
- Electrical / Mechanical Inspection
- Preventative & Predictive Maintenance
- Research & Development



TECHNICAL SPECIFICATIONS

Item	T50	T70
Detector Data		
Type	Uncooled FPA	
IR resolution	384 × 288	640 × 480
Pixel pitch	17μm	
Spectral range	7.5~14μm	
NETD / Sensitivity	50mK	30mK
Lens Data		
FOV	24° x 18°	
Minimum imaging distance	0.3m	
IFOV	1.13mrad	0.68mrad
Focus	Manual / Motor / Continuous autofocus / Laser assisted focusing	
Image Performance		
LCD	HD 5" color digital LCD, 1280 × 720	
Viewfinder	0.5" color OLED display, supporting manual zoom, 1024×768	
Visual camera	13 megapixel CMOS, autofocus, LED fill light	
Frequency	50Hz / 60Hz	
Amplification	1X~35X continuous	
Palette	12 palettes (including iron red, rainbow, black hot and white hot, etc.)	
Contrast / brightness	Auto / Manual	
Measurement		
Temperature range	-20°C~+600°C(can be extended to 1200°C)	
Measurement accuracy	5°C ~ 150°C, accuracy is ±1°C or ±1% of reading; for other temperature ranges, the accuracy is ±2°C or ±2% of reading, take the larger value	
Measurement mode	Real-time 20 movable spots, 10 movable rectangular areas and 10 circular areas (max./min. temp capture, avg. temp measure), 20 movable line temp measure, isothermal analysis, temp difference measure, temp alarm (sound, color)	
Measurement correction	Auto/Manual	
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials	
Background temperature correction	Auto (according to the input background temp)	
Atmospheric transmissivity correction	Auto (according to the input distance, relative humidity, ambient temp)	
Setting function	Date/time, temp unit °C / °F / K, language	
Alarm		
Sound and light alarm	Yes	
Image Storage		
Memory card	64G	
Storage method	Auto/manual store image in frame	
Single frame infrared image format	JPEG, with 14-Bit measured data image	
Single frame visible image format	JPEG or stored with single frame image	
Text annotation	Support 30 preset text annotations(editable)	
Voice annotation	60s voice record, stored with per image via built-in microphone	
Laser Indicator		
Grade/Type	Class2,1mW,650nm Red	
Laser Ranging	Measuring distance: 0.1m-50m	
Interfaces		
Power interface	Yes	
SD card slot	Yes	
Video output	HDMI	
Audio output	Yes	
USB interface	USB TypeC: Data transmission, radiometric video streaming	
WIFI	Yes	
Bluetooth	Yes	
4G	Optional	
GPS	Yes	
Compass	Yes	
Tripod	1/4″ _20	
Power System		
Battery type	Lithium battery (rechargeable)	
Battery operating time	4h continuous (room temperature)	
External power	DC: 5V	
Charging system	Two-seater charger or in camera (AC adapter or 12V car charger)	
Power saving	Yes	
Enviroment Parameters		
Operation temperature range	-20°C~+50°C	
Storage temperature range	-40°C~+70°C	
Humidity	≤95% (INon- condense)	
Vibration	2G (IEC60068-2-6)	
Shock	25G (IEC60068-2-29)	
Enclosulation	IP54 (IEC60529)	
Physical Data		
Size	200mm×110mm×156mm	
Weight	≤1.5kg(with battery and standard lens)	
Packing		
Standard	Thermal imaging camera, 2 lithium batteries, battery charger, adapter, USB cable, SD card, video cable, card reader, USB flash drive, warranty card, certificate, calibration book, carrying case	
Optional accessories	Laptop, SLR camera	

*This manual is for reference only. Due to product updates and improvements, contents and parameters are subject to change without notice.

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