T100

Thermal Imaging Camera

T100 is the latest expert-level thermal imaging camera of ULIRVISION. Product adopts 1024×768 high-pixel aSi microthermal detector, manual & auto integrated lens, 120° rotation, excellent imaging quality, and meets the strict requirements of scientific research institutions for high-end thermal camera.

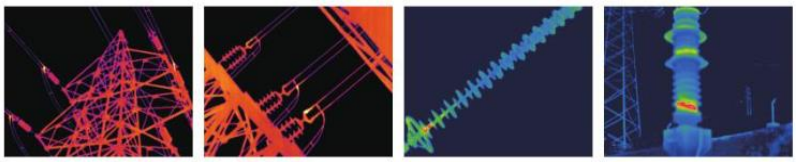
Features

- 1024×768 Uncooled detector
- Manual & auto integrated lens, continuous autofocus
- Automatic lens recognition, 120 ° rotation
- DSX Visible light and infrared image fusion and overlay
- 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
- Bluetooth, WIFI transmission



Applications

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



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Technical Specifications

Item	T100
Detector Data	
Type	Uncooled FPA
IR resolution	1024×768
Pixel pitch	17μm
Spectral range	7.5～14μm
NETD/Sensitivity	30mK
Lens Data	
FOV	28°×21°
Minimum imaging distance	1m
IFOV	0.48mrad
Focus	Auto/Motor/Manual
Image Performance	
LCD	5" touch screen, LCD with 1280×720 pixels
Viewfinder	0.5 color OLED display, support manual zoom, 1024×768
Visual camera	5 megapixel CMOS, autofocus, LED fill light
Frequency	50Hz/60Hz
Amplification	1X～10X continuous
Palette	12 palettes (including iron red, rainbow, black hot and white hot, etc.)
Contrast/Brightness	Auto/Manual
Measurement	
Temperature range	-20℃～+600℃(can be extended to 1200℃)
Measurement accuracy	±2℃/±2%(reading), take the larger value
Measurement mode	Real-time 10 movable spots, 5 movable rectangular areas and 3 circular areas (max./min. temp capture, avg. temp measure), 3 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 ℃/℉/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 (PIP)
Text annotation	Support 30 preset text annotations(editable)
Voice annotation	60s voice record, stored with per image via built-in microphone
Laser indicator	
Laser classification	Class 2
Laser power	1mW
Laser wavelength	635nm red
Interface	
Power interface	Yes
SD card slot	Yes
Video output	HDMI
Audio output	Yes
USB interface	USB2.0, image, video, real-time video
WIFI	Yes
Bluetooth	Yes
#N/A	Yes
Tripod	1/4” -20
Power System	
Battery type	Lithium battery (rechargeable)
Battery operating time	4h continuous (room temperature)
External power	DC: 10V～15V
Charging type	Two-seater charger or in camera (AC adapter or 12V car charger)
Power saving	Yes
Environment Parameters	
Operating temperature range	-20℃～+50℃
Storage temperature range	-40℃～+70℃
Humidity	≤95%(non-condensing)
Vibration	2G(IEC60068-2-6)
Shock	25G(IEC60068-2-29)
Protection level	IP54(IEC60529)
Physical data	
Size	186mm×106mm×141mm
Weight	≤1.7kg(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