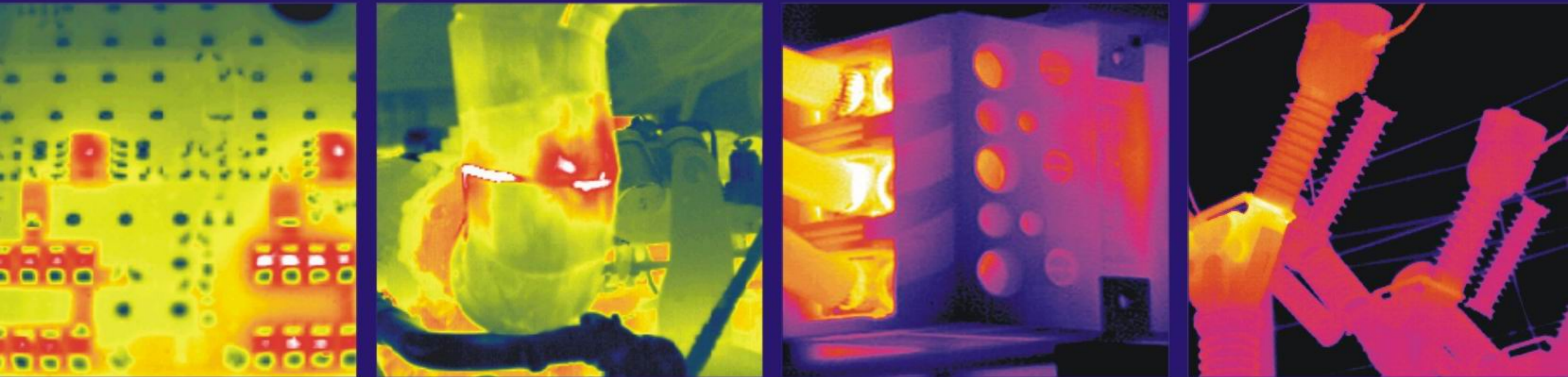




Thermal Imaging Camera TI 160

ULIRvision TI series are the compact, ergonomical and affordable thermal imaging camera in the market, easy to operate and requires no former relative experience for examiners. they can scan high resolution thermal images to give you infrared information you need, and diagnose surface abnormal hot or cold areas or components in variety of industries, building, verification after repair. with ULIRvision thermal imaging cameras, can help you detect hidden problems and make quick damage assessments.

TI 160 is an affordable, easy-to-use thermal imaging camera. with the new generation of focal plane detector, TI 160 thermal imaging camera produces crisp thermal image, accurate temperature measurement, increases predictive and preventative system maintenance quality and efficiency in the following industries: civil building, electrical power plant, Industrial manufacture, science research, fire prevention, oil Industry, transportation, and security application.



Features:

- New generation high performance IR detector 160x120 pixels 25 μm : Improve image quality and increase thermal sensitivity
- Crisp thermal images: Users can locate the scene easier and rapidly with integrated images.
- Accurate temperature measurement: Help to detect and address problems quickly and clearly.
- Bright 3.5"Color LCD: Produce sharper and clearer images
- Unique button design: Unique one-click design for easier operation
- 50Hz real-time Imaging: Smooth and crisp thermal images
- 40sec voice annotation: Allow users take quick notes on every image taken
- Auto-detecting hot/cool spot, voice and color alarm: Improve system maintenance efficiency
- Customized functions: Optional lenses and temperature range



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Technical Specifications:

Detector Data	
Detector type	Focal plane array(FPA), uncooled microbolometer
IR resolution	160 x 120 pixels
Pixel pitch	25 μm
Spectral range	8-14 μm
Imaging and Optical Data	
Field of view (FOV)	18° × 13.5° /0.15m
	12° × 9° /0.2m
	6° × 4.5° /0.8m
	45° × 33.75° /0.15m
Spatial resolution (IFOV)	1.4mrad (18° × 13.5°)
Thermal sensitivity	100mk at 30°C
Image frequency	50/60Hz
Focus	Manual
Electronic zoom	2x
Image Presentation	
Display	3.5" color LCD
Measurement	
Temperature range	-20°C~+120°C
	-20°C~+600°C
	-20°C~+2000°C
Accuracy	±2°C or ±2% of reading
Measurement spot	Up to 4 moveable spots
Measurement area	Up to 3 moveable areas, automatically capture maximum, minimum, average temperature
Line profile	Horizontal, vertical
Isotherms analysis	Yes
High temperature alarm	Voice, color
Emissivity correction	Adjustable from 0.01 to 1.0
Temperature correction	Auto
Image Storage	
Storage card	Built-in flash card, up to 1500 images
File formats	Standard JPEG, 14 bit measurement data included
Voice comments	40s digital voice record, stored with per image via built-in microphone.
Laser Indication	
Classification type	Class 2, 1mW/635nm red
Power System	
Battery type	Rechargeable Li-ion battery
Battery operating time	Approx 2 hours
Power saving	User defined
Power operation	7-9V DC
Environment Data	
Operating temperature range	-20°C - +50°C
Storage temperature range	-40°C - +70°C
Humidity(operating and storage)	≤90%non-condensing
IP rating	IP54 IEC529
Shock test	25G IEC68-2-29
Vibration	2G IEC68-2-26
Physical Data	
Size, L x W x H	330mm X 95mm X 86mm
Weight	650g
Tripod mounting	1/4"-20
Interfaces	
External DC input	Yes
Audio output	Yes
Video output	PAL / NTSC
PC	USB
Camera Includes	
Standard	Thermal Imaging camera with 18° standard lens, 2 Li-ion batteries, Battery charger, Adapter, Video cable, USB cable, Software CD, Manual, Warranty card, Transport case
Options	Tripod, Li-ion battery, Infrared lens

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