

ThermoTRACK-IR 10

Infrared Thermal Imaging Camera



- Ergonomically designed for extended use
- 384 x 288 uncooled detector
- Super-high thermal sensitivity (0.06°C@30°C)
- Pivoting LCD display for improved image display
- Alarm in voice & light
- 40 second voice annotation
- SD card storage

Features



Large LCD display

A large, bright LCD display screen with a few simple buttons will help you fine-tune / analyze images and perform your inspection easily and quickly.

Accurate temperature measurement and high image quality

ThermoTRACK-IR offers you unmatched temperature measurement accuracy with thermal sensitivity of 0.1°C as well as clear, noise-free, high resolution images displaying on the camera's 2.5" color LCD .

Multi temperature measurement mode

ThermoTRACK-IR cameras integrate the analysis process with 'multi-measurement' mode: movable spot and areas with average/max/min temperature tracing, line profile, isotherms and temperature difference, all of which enable the operator to get clear target temperature information quickly. The function of visible and audible alarms allows the camera to assist operators to observe select area automatically.

Built-in flash memory

Built in flash memory stores up to 1000 image of JPEG images along with 40 seconds digital voice clip record per image; the extra memory permits the operator to refresh the images as often as he likes or needs.

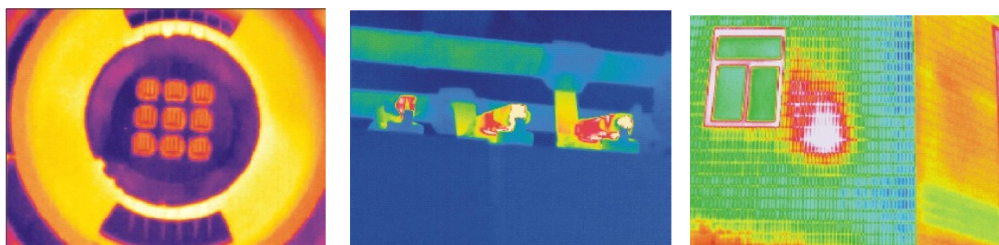
Intelligent power control system

Automatic shutdown and sleep mode are designed for saving the battery power, which when activated can provide up to 3 hours of continuous operation.



Application

Non-destructive testing for industrial equipment such as power industry including transmission and distribution systems, railway, petroleum and petrochemical industry, industrial inspection, processing piping, tank farms, manufacturing, as well as the building inspection.



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Technical Specification

Items		ThermoTRACK-IR 10	
Detector characteristics	Detector type	uncooled FPA microbolometer	
	Array size/format	384×288	
Image characteristics	Field of view/min focus distance	16°×12°/0.5m	
	Spatial resolution (IFOV)	0.88 mrad	
	Thermal sensitivity	0.06°C@30°C	
	Frame rate	50/60Hz	
	Focus	Manual	
	Electronic zoom	2x	
	Spectral range	8-14um	
	LCD	Built-in high-resolution color 2.8" LCD	
	Temperature ranges	-20°C- +500°C	
	Accuracy	± 2 °C or ± 2% of reading, Whichever is greater	
	Measurement correction	Automatic/manual	
		Up to 4 movable spots. Up to 3 movable areas (maximum, minimum and	
	Image controls	Color palette	11 palettes changeable (Iron, Rainbow, Grey and Grey inverted, etc.)
		Image adjustment	Auto/manual gain and brightness
		Setup functions	Date/time, temperature unit, language
		Emissivity correction	Variable from 0.01 to 1.0
		Ambient temperature correction	Automatic correction according to user input
	Atmospheric transmission correction	Automatic correction according to user input object distance, relative humidity , ambient temperature	
Image storage	Type	Storage card	Built-in flash memory, SD card (2G), Up to 4000 images
		Storage mode	Automatic/manual single image saving
	File format-thermal	JPEG, 14 bit thermal image with measurement data	
	Voice annotation	Input via built-in microphone up to 40 seconds of digital voice per image stored with image	
Laser pointer	Laser pointer	Class 2, 1mw/635nm(red)	
Power supply	Battery type	Li-Ion, rechargeable	
	Battery operating time	3 hours continuous operation	
Power supply	Charging system	Intelligent charger or power supply adaptor(optional) online charge	
	Power saving	YES	
	External power	10-15V DC	
Environment	Operating temperature	-15°C-+50°C	
	Humidity	≤90% non-condensing	
	Encapsulation	IP54	
Physical characteristics	Weight	0.91Kg	
	Dimensions	303mm×123mm×85mm	
Interface	External DC input	Yes	
	Audio output	Yes	
	Video output	PAL/NTSC	
	USB	Image, measurement data and voice transfer to PC	

Spectrum Instruments Ltd has collectively over 40 years of experience with infrared thermal imaging and thermal imaging products; need assistance? Contact us today to:

REVIEW YOUR APPLICATION

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INFRARED PROGRAM IMPLEMENTATION

TRAINING ON CAMERA OPERATION AND IMAGE ANALYSIS

COORDINATING CAMERA REPAIR

INFRARED CAMERA RENTAL

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