ThermoTRACK-IR 10

Infrared Thermal Imaging Camera

- **Ergonomically designed for extended use**
- **384 x 288 uncooled detector**
- **Super-high thermal sensitivity (0.06℃@30℃)**
- **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

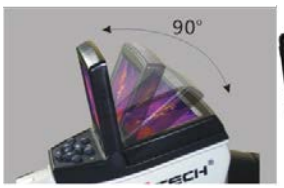
ThermoTRACK-IR cameras integrate the analysis process with 'multi-measurement' mode: movable spot and areas with average/max/min temperature tracing, line profile, isotherms and temperature difference, all of which enable the operator to get clear target temperature information quickly. The function 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.

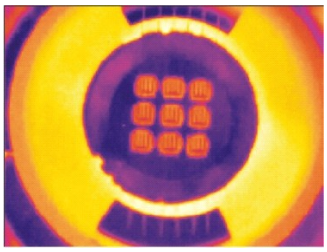
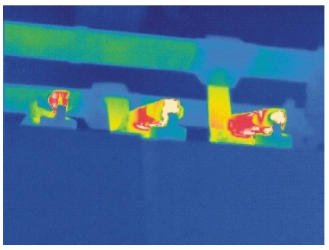
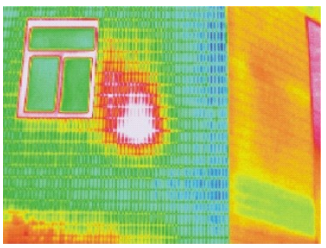
Intelligent power control system

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℃@30℃
	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℃- +500℃
	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℃-+50℃
	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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COORDINATING CAMERA REPAIR

INFRARED CAMERA RENTAL

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