



Professional Handheld Industry Inspection Thermal Imaging Camera

ThermalTronix

TT-4T-HTI

TT-8T-HTI



TT-4T-HTI TT-8T-HTI

Newly released "TT-4T-HTI/TT-8T-HTI", using a new ergonomic design concept, are a kind of handheld IR Thermal Imaging Camera designed for Electric & Industrial predictive maintenance with pixel of 160×120 /384×288. They will give a fusion display with the 3 million pixel daylight image and IR thermal image through a convenient 3.6" touch screen at your fingertips. Importantly, Network real-time transmission of pictures and video features play an excellent role in the field of scientific research and industrial control.



2-meters drop resistant



3 million daylight image



3.6" touch screen



Dual LED fill lights make clearer shot



Fusion display of IR & daylight image



Bluetooth audio transmission



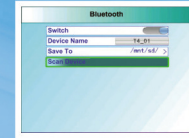
Developed with user friendly and easy operating " GUI " system



Standby interface



Main menu



Bluetooth setting



Internet setting



Real-time transmission of pictures and infrared videos



Real-time video tranfering to professional IR Video Analyse Software on your computer

INTELLISYSTEM TECHNOLOGIES
THERMAL IMAGING CAMERA MANUFACTURER

Drop-resistant



3.6" touch screen

7.4V/1800mAh rechargeable lithium batteries inside, this is battery cap open button



Dual LED fill lights make clearer shot

300 million pixel CMOS camera modules inside

160×120/384×288 pixel

Laser locator



EXCELLENT IMAGE QUALITY

384 x 288 Pixel

ThermalTronix

**TT-4T-HTI
TT-8T-HTI**

Technical Parameter

Items		TT-4T-HTI	TT-8T-HTI
Detector characteristics	Detector type	Un-cooled FPA micro-bolometer	
	Array size/format	160x120	384x288
Field of view/min focus distance	Field of view/min focus distance	25°x19°/0.5m	
	Spatial resolution (IFOV)	2.72mrad	1.32mrad
	Thermal sensitivity	≤0.06°C@30°C	≤0.04°C@30°C
	Frame frequency	50Hz	
Image characteristics	Focus	Manual	
	Zoom	2X , 4X	
	Spectral range	8-14μm	
	Built-in CCD camera	3 million pixels, COMS camera modules, 2 LED lights	
LCD	LCD	3.6" TFT LCD, 640 x 480	
	Image display	IR and Visual image can be shifted fast; image fusion.	
Image processing	Image processing	Automatic / manual/ auto-enhancement	
	Temperature ranges	-20°C~+350°C(can expanded to 1200°C)	-20°C~+650°C(can expanded to 1200°C or 2000°C)
Accuracy	Accuracy	± 2°C or ± 2% of reading, Whichever is greater	
	Measurement correction	Automatic / manual	
Measurement mode	Measurement mode	Up to 5 movable spots. Up to 5 movable areas. Up to 2 movable lines (maximum, minimum and average temperatures). Line profile. Isotherms. Temperature difference. Alarm(voice, color)	
	Image control	Color palette 11palettes changeable Image adjustment Auto/manual gain and brightness	
Setup functions	Setup functions	Date/time, temperature unit, language	
	Emissivity correction	Variable from 0.01 to 1.0	
Background temperature correction	Background temperature correction	Automatic corrections according to user input	
	Atmospheric transmission correction	Automatic correction according to user input object distance, humidity and temperature	
Storage card	Storage card	8G SD card, max 32G	
	Storage mode	Manual/Auto single file saving, IR and Visual image link saving, fusion recording Thermal: JPEG with original thermal measurement data included; H.264 in network recording Visual: JPEG, H.264 with fusion.	
File format	File format	Input via built-in microphone up to 60 seconds of digital voice clip per image stored with image	
	Voice annotation	Input via built-in microphone up to 60 seconds of digital voice clip per image stored with image	
Laser pointer	Laser locator	Class 2, 1mw/635nm(red), IEC 60 285	
	Battery type	Li-Ion, rechargeable	
Battery operating time	Battery operating time	3 hours continuous operation	
	Battery charging mode	Intelligent charger or car power adaptor 12V(optional)	
Power saving	Power saving	Auto-sleep and auto-shut down	
	External power	12V DC	
Operating temperature	Operating temperature	-15°C~+50°C	
	Humidity	≤95% non-condensing	
Encapsulation	Encapsulation	IP54	
	Drop test	2m	
Weight	Weight	1kg	
	Dimension (W×H×D)	105×245×230mm	
SD card slot	SD card slot	Micro SD card cassette	
	External network input	With function of IP address real-time image transferring setup	
Video output	Video output	YES	
	Audio / data transfer	Bluetooth (earphone/RS232)	

▲ The information contained in this document is subject to change without notice

Application Gallery



Application in power industry

- Clamps & transmission equipment detection
- Power transformation & distribution equipment detection



Application in construction

- Underground heating system
- Insulation trouble
- Hollowing detection
- Water stain damage
- Window airtightness
- Radiators and pipes



Application in technology

- Temperature distribution measurement
- Temperature change analysis
- Temperature differences judgement



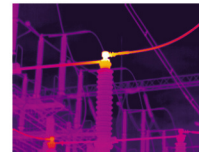
Application in electrical and mechanical industry

- Security detection
- Insulation failure
- Loose interface detection
- HVAC acror
- Components malfunction
- Repair verification

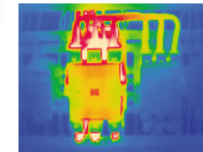


New energy application

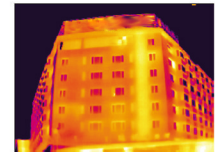
- Measurement of LED chips and lights temperature and cooling process
- Detection of Solar components hot spots, solar cells welding process, inverter and circuit
- Analysis of high and low temperature distribution, temperature uniformity and differences in manufacturing



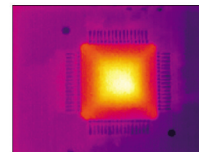
Connector overheating inspection



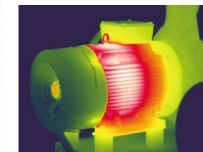
Power Distribution cabinet inspection



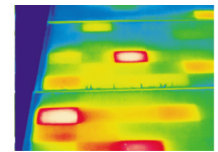
Chimney Inside Wall



Chip Overheat check



Motor inspection



Solar components with polysilicon

Intellisystem Technologies S.r.l.

Via Augusto Murri, 1 - 96100 Siracusa

Phone +39 (0)931-1756256 / +39 (0)2-87167549 - Mobile (+39) 335 1880035
em@il: info@intellisystem.it WEB: <http://www.intellisystem.it>