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Top-end IR Thermographic Camera ThermoPro™ TP8

The new standard for professional infrared cameras
The first voice-control IR camera in the world

ThermoPro™ TP8

The first time for nine advanced technologies used in IR industry:

- New-generation high-performance IR detector (384× 288 pixels, 35μm)
- Intuitive detachable touch screen & remote control handle
- Intelligent auto speech control of the camera
- Bluetooth voice recording technology
- Ultra-compact, light & durable magnalium casing
- High-resolution 640× 480 OLED viewfinder & 1280×1024 visual camera
- Ultra-large capacity 2GB SD memory card
- Real-time radiometric video recording & data transfer & control of camera via USB2.0
- Synchronous video output on VGA LCD screen, OLED viewfinder, VGA display device & TV display device
- Windows-style man-machine interface

New!

Offering your unimaginable benefits:

- Crisp vivid thermal & visual imaging
- High thermal sensitivity & precise temperature measurement
- Easy, fast, safe & hand-free operation
- Flexible high-quality image & video presentation
- Intelligent radiometric onboard analysis & storage
- High-speed data transfer & robust post processing
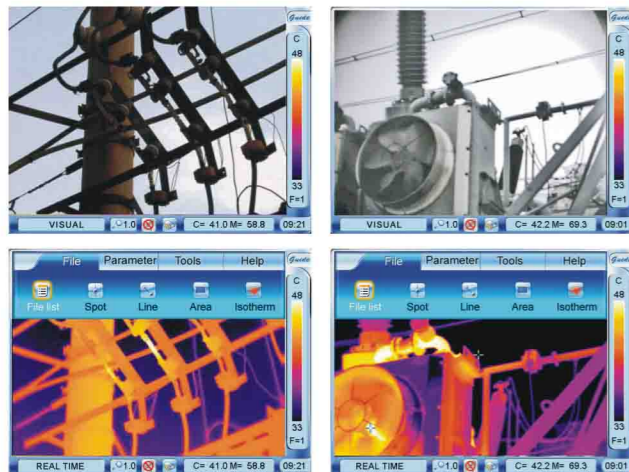- The unparalleled pleasure never available from any other IR camera

Improved on the most advanced IR package available now, integrating multiple technologies never used in the industry, ThermoPro™ TP8 is another ingenious solution Guide IR provides for professional IR thermographers around the world. In a rugged, compact and durable magnalium casing, ThermoPro™ TP8 offers a wide assortment of unexpected features that enable thermographers to work with unprecedented efficiency and productivity. Exceeding all the existing IR radiometric cameras, it sets another new standard of the first-class products for the whole industry.

Standard Configuration

- IR camera with visual camera, laser locator
- 35mm IR lens
- 3.5″ VGA LCD Screen, 0.6″ OLED viewfinder, touch pen
- 0.6″ OLED viewfinder
- 2GB SD card and card reader
- Bluetooth wireless headset
- Two rechargeable Li-ion batteries
- Battery charger
- AC adapter
- VGA cable
- USB extension cable
- RS232 communication & TV Video cable
- RS232 communication protocol
- USB driver
- Guide IrAnalyser® Software
- User manual
- Carry case & strap

Imaging Performance

THERMAL

Detector Type:	Uncooled FPA microbolometer (384× 288 pixels, 35μm)
Spectral Range:	8-14μm
Thermal Sensitivity:	0.08℃ at 30℃ (Frame averaging algorithm)
Field of View/ Focus:	22°× 16° / 35mm
Focus:	Automatic or motorized
Electronic Zoom:	×1 to ×10 continuous zoom

VISUAL

Built-in Digital Video:	CMOS Sensor, 1280× 1024 pixels, 2¹⁵colors

Image Presentation

External Display:	3.5″ high resolution color VGA LCD, 640× 480 pixels
Viewfinder	0.6″ built-in high resolution color OLED, 640× 480 pixels
Video Output:	VGA/PAL/ NTSC switchable
Image Display:	Thermal image alone/ Visual image alone/ Picture in picture

Man-Machine Communication

Touch Screen:	Present and receive operator's commands given by touch
Auto Speech Recognition System:	Automatically recognize and react to operators' voice commands
Remote Control Handle (optional):	Respond as per operators' operation
Joystick & Buttons:	Respond as per operators' operation
Menu:	Microsoft® Windows style

Measurement

Temperature Range:	-20℃- +800℃ (up to +2000℃ optional)
Accuracy:	±1℃ or ±1% of reading
Measurement Modes:	Auto hot spot & auto alarm in live/ zoomed image & video; 8 movable spots, 8 movable & changeable areas displaying either max, min, or average, vertical & horizontal line profile, histogram & isotherm in live/zoomed/frozen/saved image & video
Emissivity Correction:	Variable from 0.01 to 1.00 (in 0.01 increment)
Measurement Features:	Automatic correction based on distance, relative humidity, atmospheric transmission and external optics
Optics Transmission Correction:	Auto, based on signals from sensors

Image Storage

Type:	Removable 2GB SD card or built-in flash memory
File Format:	JPEG (An individual file consists of infrared image, visual image, voice annotation and text annotation if any)
Voice Annotation:	Up to 30 seconds per file (more than 30 seconds optional) Bluetooth wireless headset
Text Annotation:	Selected from preset texts

Live Video Recording & Measurement & Storage

Recording:	Thermal video recording to PC via USB2.0
Measurement:	The same as image
Storage:	In PC, capacity dependent on PC hard disk capacity

Optional Lenses

Field of View/ Focus:	7.7°× 5.8° / 100mm 45.6°× 35° / 16mm

Laser Locator

Classification Type:	Class 2 semiconductor laser

Power System

Battery Type:	Rechargeable Li-ion Camcorder battery, field- replaceable
Charging System:	In camera or in battery charger
Battery Operating Time:	Over 2.5 hours continuous operation
External Power Operation:	AC adapter 110/ 220 VAC, 50/ 60Hz

Environmental

Operating Temperature:	-20℃- +60℃
Storage Temperature:	-20℃- +60℃
Humidity:	Operating and storing 10% to 95%, non- condensing
Encapsulation:	IP54 IEC 529 housing
Shock :	Operational: 25G, IEC 68-2-29
Vibration:	Operational: 2G, IEC 68-2-6

Interfaces

USB 2.0:	Real-time data transfer to PC & real-time control of the camera on PC
RS232 communication:	Control of camera on PC

Physical Characteristics

Housing:	Magnalium
Weight:	0.85kg (excluding battery & LCD); 1.1kg(including battery & LCD)
Size:	186mm× 106mm× 83mm (standard model)
Tripod interface:	1/4″ - 20