

IRTC500 Pocket Thermal Imaging Camera with 160 x 120 Resolution

Hot and cold temperature markers quickly indicate where potential issues are located.

Key Features

Display Modes

Infrared, Visible Light, Picture-in-Picture, and Fusion (Blends Thermal and Visual Image for clear details of the scene, like shapes or objects, in one image).

Thermal Resolution

160 x 120 (19,200 pixels) with $\leq 50\text{mk}$ Thermal Sensitivity (NETD).

Auto Fusion Technology

Automatically calculates the mix ratio between IR and visible images.

Screen

2.8" (71mm) focus-free color display with 320 x 240 resolution.

Temperature Markers

- Center spot
- 3 manual spots
- Auto hot/cold markers.

Multi-Language Menu

User-friendly interface in six languages—English, Italian, Spanish, French, German, and Chinese.

Real-Time Features

Includes a real-time clock and calendar.

On-Screen Gallery

Easily view captured videos and pictures directly on the device.

Power Management

Automatic shutdown (with the option to disable) to extend battery life.

Connectivity Options

USB interface or WiFi (Android OS only) for:

- Transferring videos (mp4) and images (jpg/HIR).
- Live streaming video to a PC.

Includes

Rechargeable Lithium Ion battery (installed), 8GB microSD card
USB cable, and a protective case.

Users

- Building inspectors
- Electricians
- Maintenance technicians



Applications

HVAC Inspections

Identifying heat loss, insulation gaps, and ductwork leaks.

Electrical Troubleshooting

Spotting overloaded circuits, loose connections, and hot spots.

Mechanical Maintenance

Monitoring equipment temperatures to prevent failures.

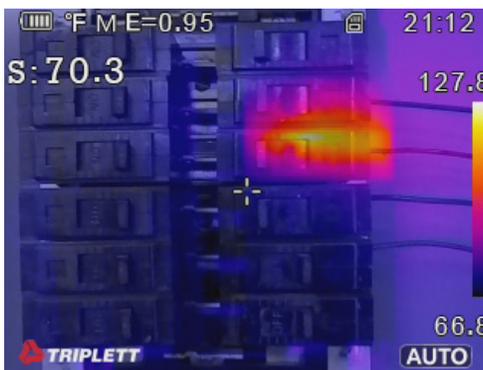
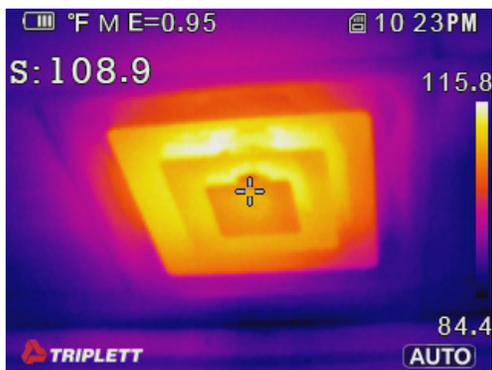
Basic Facility Maintenance

Routine inspections for minor temperature irregularities.



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Specifications

Temperature Range	-4 to 1022°F (-20 to 550°C)
IR Resolution	160 x 120 (19,200 pixels)
Thermal Sensitivity/NETD	≤50mk
Basic Accuracy	±2% or ±2°C (3.6°F)
FOV	42° x 32°
Minimum Focus Distance	19.7" (0.5m) Focus-free
Image Frequency	9Hz
Spectral Response	8-14μm
Emissivity	Adjustable 0.01 to 1.0
Visible Light Resolution	2MP (1600 x 1200)
Image Display Mode	Infrared/Visible Light/PIP/Fusion
Screen Size	2.8" (89mm) LCD
Display Resolution	320 x 240 pixels
Color Display Palettes	Iron, Rainbow, White hot, Black hot, Brown hot, Blue-Red, Hot-Cold, Feather
Video/Image Storage	(Built-in 3.4G) MP4/JPG or HIR, 8GB microSD card (included)
Image Gallery	Yes
PC Interface	USB/WiFi (Android OS only)
Power	Rechargeable Lithium Ion
Dimensions	3.5 x 3.4 x 1.0" (90 x 85.3 x 25mm)
Weight	6.3oz (180g)

Ordering Information:

IRTC500 Pocket Thermal Imaging Camera with 160 x 120 Resolution

What's in the Box?

- IRTC500
- Rechargeable Lithium Ion battery (installed)
- 8GB microSD card
- USB cable
- Case

