

# 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.

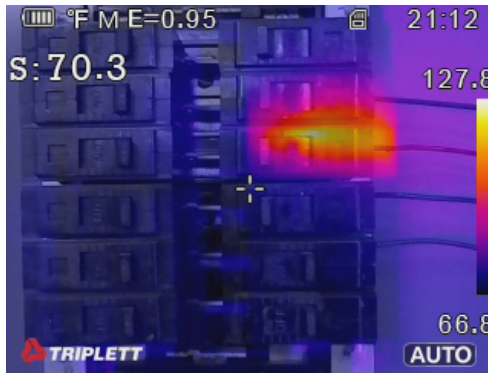
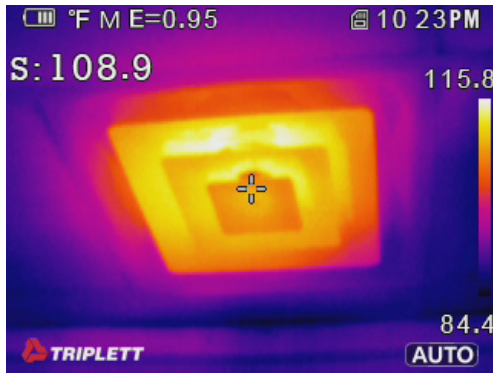
### Basic Facility Maintenance

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

