

# IRTC550 Compact Thermal Imaging Camera with 160 x 120 Resolution

Portable, high-sensitivity thermal imager with intuitive touchscreen for fast and accurate analysis.



## 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  $\leq 40\text{mk}$  Thermal Sensitivity (NETD).

### Auto Fusion Technology

Automatically calculates the optimal mix ratio between IR and visible images.

### Touchscreen Display

3.5" (89mm) focus-free color touchscreen with 640 x 480 resolution.

### Temperature Markers

- Center spot.
- 3 manual spots.
- 3 areas.
- 2 line analysis.
- Auto hot/cold markers.

### Digital Zoom

1 to 32X continuous zoom.

### User-Friendly Menu

Intuitive interface available in six languages—English, Italian, Spanish, French, German, and Chinese.

### Real-Time Features

Includes a real-time clock and calendar.

### On-Screen Gallery

Built-in gallery for reviewing captured videos and images.

### Power Management

Automatic shutdown with disable option to extend battery life.

### Connectivity Options

- USB interface or WiFi (Android OS only).
- Supports transferring videos (mp4) and images (jpg/HIR).
- Enables live stream viewing on a PC.

### Includes

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

## Users

- General contractors
- Energy auditors
- Residential inspectors



## Applications

### Energy Auditing

Enhanced resolution and sensitivity for detecting insulation issues.

### Plumbing Inspections

Identifying pipe blockages or leaks.

### Electrical Testing

Locating overheating components in residential and small commercial setups.

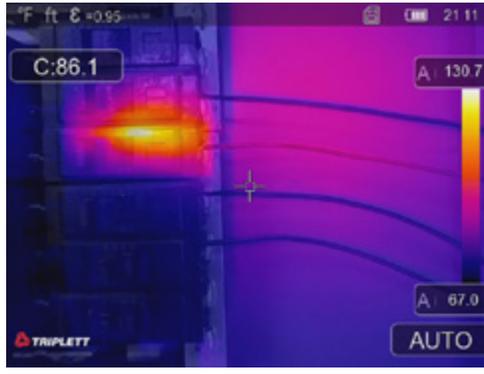
### Roof Inspections

Detecting water intrusion and poor insulation.



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## Specifications

Temperature Range	-4 to 752°F (-20 to 400°C)
IR Resolution	160 x 120 (19,200 pixels)
Thermal Sensitivity/NETD	≤40mK
Basic Accuracy	±2% or ±2°C (3.6°F)
FOV	0.5ms
Minimum Focus Distance	42° x 42°
Image Frequency	19.7" (0.5m) Focus-free
Spectral Response	9Hz
Emissivity	8-14μm
Visible Light Resolution	Adjustable 0.01 to 1.0
Image Display Mode	2MP (1600 x 1200)
Screen Size	Infrared/Visible Light/PIP/Fusion
Display Resolution	3.5" (89mm) Color Touchscreen / 640 x 480 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
Power	Rechargeable Lithium Ion
Dimensions	5.2 x 3.4 x 1.0" (133 x 87 x 24mm)
Weight	7.2oz (200g)

## Ordering Information:

**IRTC550** Compact Thermal Imaging Camera with 160 x 120 Resolution

### What's in the Box?

- IRTC550
- Rechargeable Lithium Ion battery (installed)
- 8GB microSD card
- USB cable
- Lanyard
- Case

