

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.

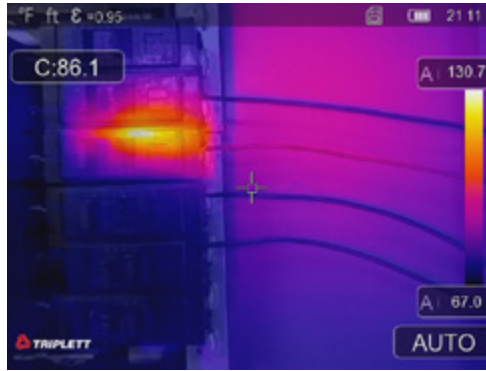
Roof Inspections

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	18oz (500g)

Ordering Information:

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What's in the Box?

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

