

IRTC650 Advanced Thermal Imaging Camera with 256 x 192 Resolution

Infrared / Visible Light / Picture in Picture / Fusion display modes

Key Features

Thermal Resolution

256 x 192 (49,152 pixels) with $\leq 40\text{mk}$ Thermal Sensitivity (NETD).

Auto Fusion Technology

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

Display

3.2" (81mm) focus-free color screen with 320 x 240 resolution.

Temperature Indicators

- Center spot marker.
- Auto hot/cold markers for quick identification of potential issues.

Digital Zoom

1 to 16X continuous zoom.

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

Built-in picture gallery for reviewing captured videos and images.

Power Management

Automatic shutdown with disable option to conserve battery life.

Connectivity Options

- USB interface for transferring videos (mp4) and images (jpg/HIR).
- Supports live streaming to a PC.

Includes

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



Applications

Industrial Equipment Monitoring

Tracking motors, pumps, and electrical panels for overheating.

Utility Inspections

Scanning power lines, transformers, and substations for wear and damage.

Building Diagnostics

Comprehensive thermal analysis for large structures.

Professional Diagnostics

Touchscreen and enhanced resolution allow detailed data collection.

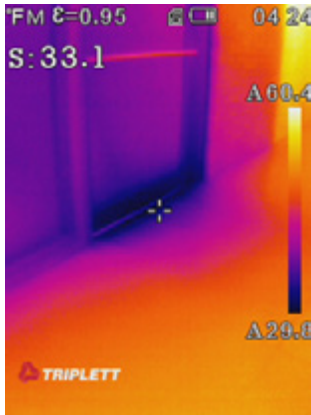


Users

- Industrial maintenance engineers
- Professional thermographers
- Utilities technicians

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Specifications

Temperature Range	-4 to 1022°F (-20 to 550°C)
IR Resolution	256 x 192 (49,152 pixels)
Thermal Sensitivity/NETD	≤40mk
Basic Accuracy	±2% or ±2°C (3.6°F)
FOV	62° x 48°
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	3.2" (81mm) 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
Power	Rechargeable Lithium Ion
Dimensions	8.8 x 3 x 3.8" (224 x 77 x 96mm)
Weight	1.1lbs (500g)

Ordering Information:

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What's in the Box?

IRTC650
Rechargeable Lithium Ion battery (installed)
8GB microSD card
USB cable
Case

