

IRTC900 Professional Thermal Imaging Camera with 384 x 288 Resolution

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

Key Features

Thermal Resolution

384 x 288 (110,592 pixels) with $\leq 50\text{mk}$ Thermal Sensitivity (NETD).

Auto Fusion Technology

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

Touchscreen Display

3.5" (89mm) manual focus touchscreen LCD with 640 x 480 resolution.

Temperature Markers

- Center spot marker.
- 3 manual spots.
- 3 areas of interest
- 2 line analysis.
- Auto hot/cold markers for rapid issue detection.

Digital Zoom

1 to 16X continuous zoom.

User-Friendly Menu

Available in six languages—English, Italian, Spanish, French, German, and Chinese.

Real-Time Features

Built-in real-time clock and calendar.

On-Screen Gallery

Integrated gallery for viewing recorded videos and images.

Power Management

Automatic shutdown with disable option to extend battery life.

Connectivity Options

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

Includes

Rechargeable Lithium Ion battery (installed), 120/240VAC adapter/charger with 4 plugs (US, UK, EU, AU), 8GB microSD card, Software CD, USB cable, and a protective case.

Users

- Advanced maintenance professionals
- Industrial safety engineers
- Energy consultants
- Professional electricians
- Commercial electricians
- Professional building inspectors
- Utilities technicians



Applications

Advanced Condition Monitoring

Laser distance meter helps with precise measurements of critical systems.

Energy Efficiency Studies

Detailed analysis for commercial and industrial energy audits.

Predictive Maintenance

Voice and text annotation enable detailed records for recurring inspections.

Infrared Research

High sensitivity and annotation make it useful for detailed thermal studies.

Utility Infrastructure Maintenance

Scanning transformers, switchgear, and substations to identify wear, damage, or overheating components.

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Specifications

Temperature Range	-4 to 1022°F (-20 to 550°C)
IR Resolution	384 x 288 (110,592 pixels)
Thermal Sensitivity/NETD	≤50mk
Basic Accuracy	±2% or ±2°C (3.6°F)
FOV	41.5° x 31.1°
Minimum Focus Distance	19.7" (0.5m) Manual Focus
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	3.5" (89mm) Touchscreen
Display Resolution	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, Wifi (Android OS only)
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?

IRTC900
Rechargeable Lithium Ion battery (installed)
120/240VAC adapter/charger with 4 plugs (US, UK, EU, AU)
8GB microSD card
Software CD
USB cable
Protective carrying case

