

# IRTC450 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 ≤50mk Thermal Sensitivity (NETD).

### Auto Fusion Technology

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

### Display

2.4" (61mm) 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.

### User-Friendly Menu

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 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).
- Enables live streaming to a PC.

### Includes

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

## Users

- Home inspectors
- Technicians needing a portable solution



## Applications

### Quick Spot Checks

Small screen and compact design ideal for fast temperature assessments.

### Residential Maintenance

Detecting minor issues such as poor sealing in windows or thermal leaks.

### Light-Duty Inspections

Affordable option for occasional use in basic thermal imaging applications.



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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	≤50mk
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	2.4" (61mm) 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	9.2 x 3 x 4" (235 x 76 x 100mm)
Weight	1.1lbs (500g)

## Ordering Information:

**IRTC450** Advanced Thermal Imaging Camera with 256 x 192 Resolution

### What's in the Box?

IRTC450  
Rechargeable Lithium Ion battery (installed)  
8GB microSD card  
USB cable  
Lanyard  
Case

