

# ICI | FM 640 C-Series



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# ICI | FM 640 C-Series

The ICI FM 640 C-Series is an uncooled FPA thermal imaging camera system which features ultra-high resolution in 640x488 pixels. The FM 640 C features accurate temperature measurement, 2x & 4x Digital Zoom, up to 8 channels, and can save by RAW, avi and csv formats. The FM 640 is suitable for a wide variety of applications including electrical inspections, petrochemical, iron and steel, scientific research, fire-fighting, building inspections, process control, medical, veterinarian and more. Optional high temperature calibration available up to 500 °C.



## Features

- Color Alarm (Isotherm)
- Recording Video Clip (AVI)
- Hot/Cold Spot Tracker
- Various Color Palettes
- Ethernet (RJ 45)
- 2x & 4x Digital Zoom
- 8 Channels

## Specifications

- **Detector Array:** Uncooled FPA
- **Pixel Resolution:** 640x488
- **Spectral Band:** 8  $\mu\text{m}$  to 14  $\mu\text{m}$
- **Thermal Sensitivity (NETD):** < 0.08 °C at 30 °C (80 mK)
- **Frame Rate:** 50 Hz to 60 Hz P-Series, or 9 Hz S-Series
- **Dynamic Range:** 14-bit
- **Temperature Range:**  
Standard: -20 °C to 120 °C  
Optional: 0 °C to 500 °C
- **Operation Range:** -15°C to 50°C
- **Storage Range:** -40 °C to 70 °C
- **Analog Output:** NTSC and PAL
- **Video:** RAW, AVI, and CSV
- **Accuracy:**  $\pm 2^\circ\text{C}$
- **Pixel Operability:** > 99 %
- **Dimensions (without lens):** 183 x 78 x 68 mm (H x W x D  $\pm .5\text{mm}$ )
- **Weight (without lens):** 500 g
- **Battery:** DC 12V : 5 W
- Ethernet

## Applications

- Insulation Inspections
- Scientific Research
- Predictive Maintenance
- Reliability Engineering
- Medical Imaging
- Robotics
- HVAC
- Security
- Electrical



## Lens & Software Options

- Outdoor Housing Germanium Window
- Encapsulation: IP 66 (optional)
- 500 °C High Temp. Mode (optional)
- Motorized (optional)
- Athermalized (optional)
- Optic Zoom lens (optional)

