

# ICI | FM 320 C-Series



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# ICI | FM 320 C-Series

The ICI FM 320 C-Series is an uncooled FPA thermal imaging camera system which features ultra-high resolution in 384x288 pixels. The FM 320 C features accurate temperature measurement, 2x & 4x Digital Zoom, up to 8 channels, and can save by RAW, avi and csv formats. The FM 320 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.

## Features

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

## Specifications

- **Detector Array:** Uncooled FPA
- **Pixel Resolution:** 384x288
- **Spectral Band:** 8  $\mu\text{m}$  to 14  $\mu\text{m}$
- **Thermal Sensitivity (NETD):** < 0.08  $^{\circ}\text{C}$  at 30  $^{\circ}\text{C}$  (80 mK)
- **Frame Rate:** 50 Hz to 60 Hz P-Series, or 9 Hz S-Series
- **Dynamic Range:** 14-bit
- **Temperature Range:**  
Standard: -15  $^{\circ}\text{C}$  to 50  $^{\circ}\text{C}$   
Optional: 0  $^{\circ}\text{C}$  to 500  $^{\circ}\text{C}$
- **Operation Range:** -15  $^{\circ}\text{C}$  to 50  $^{\circ}\text{C}$
- **Storage Range:** -40  $^{\circ}\text{C}$  to 70  $^{\circ}\text{C}$
- **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  $^{\circ}\text{C}$  High Temp. Mode (optional)
- Motorized (optional)
- Athermalized (optional)
- Optic Zoom lens (optional)

