

ICI | FM 160 P-Series



www.infraredcamerasinc.com | sales@infraredcamerasinc.com

INFRARED CAMERAS INC.
2105 W. Cardinal Dr.
Beaumont, TX 77705

Phone: (409) 861-0788
Toll Free: (866) 861-0788

We are IR™

ICI | FM 160 P-Series

The FM 160 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. The thermal imaging camera system has a 160x120 pixel resolution. Features highly accurate temperature measurement, 2x & 4x Digital Zoom, up to 8 channels, and can save in RAW, AVI and CSV formats. Monitor high voltage cabinets as well as gasification reactors, and oversee the health of livestock and crops. Includes IR Flash Pro Software.



Features

- Unmatched image sensitivity
- Can be Fixed Mounted
- Dual Temperature Range
- 2x & 4x Digital Zoom
- Native Wide Dynamic Range
- Aluminum Enclosure
- Save Multiple Video Formats
- Includes IR Flash Research Software



Specifications

- **Detector Array:** UFPA Microbolometer
- **Pixel Pitch:** 25 μm
- **Pixel Resolution:** 160x120
- **Spectral Band:** 8 μm to 14 μm
- **Thermal Sensitivity (NETD):** < 0.08 $^{\circ}\text{C}$ at 30 $^{\circ}\text{C}$ (80 mK)
- **Frame Rate:** 50 Hz to 60 Hz
- **Dynamic Range:** 14-bit
- **Temperature Range:**
Range 1: -20 $^{\circ}\text{C}$ to 150 $^{\circ}\text{C}$
Range 2: 0 $^{\circ}\text{C}$ to 400 $^{\circ}\text{C}$
- **Operation Range:** -20 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$
- **Storage Range:** -40 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$
- **Analog Output:** NTSC and PAL
- **Accuracy:** ± 1 $^{\circ}\text{C}$
- **Alarm:** 2 relay output
- **Pixel Operability:** > 99 %
- 75 G Shock / 4 G Vibration
- **Dimensions (without lens):** 92 x 73 x 76 mm (H x W x D $\pm .5$ mm)
- **Weight (without lens):** < 499 g
- Ethernet

Applications

- High Voltage Cabinet Monitoring
- Electronics Manufacturing
- Industrial Process Imaging
- Laser Instrumentation
- Short Range Surveillance
- Temperature Measurement
- Gasification Reactors
- Scientific Research
- PCB Imaging
- Robotics
- Food Monitoring
- Livestock Health



Software Options

- IR Flash Research Software
- Windows 32-bit SDK
- Linux SDK (x86, x64 and ARM)