

# ICI | PC 160 P-Series



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# ICI | PC 160 P-Series

The ICI PC 160 provides continuous temperature monitoring, hot spot detection, and alarming capabilities to protect against critical equipment failures. Compact and easy to install, the system features a 160x120 thermal imaging camera and a built-in 640x480 visible camera. The PC 160 is suitable for a wide variety of applications including monitoring high voltage cabinets as well as gasification reactors, process control, electrical inspections, short range surveillance, iron and steel processing, scientific research, fire-fighting, building inspections, overseeing the health of livestock and crops, and more. Includes IR Flash Pro Software.



## Specifications

- **Detector Array:** UFP A Microbolometer
- **Pixel Pitch:** 25  $\mu\text{m}$
- **Pixel Resolution:** 160x120
- **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)
- **Accuracy:**  $\pm 2$   $^{\circ}\text{C}$
- **Frame Rate:** 50 Hz P-Series
- **Dynamic Range:** 14-bit
- **Temperature Range:** -20  $^{\circ}\text{C}$  to 150  $^{\circ}\text{C}$
- **Operation Range:** -20 $^{\circ}\text{C}$  to 50  $^{\circ}\text{C}$
- **Storage Range:** -40 $^{\circ}\text{C}$  to 70  $^{\circ}\text{C}$
- **Digital Camera:** Built-in, 640x480
- **Focus:** Fixed
- **Image Format:** JPG
- **Image Modes:** IR and Visible
- **Image Polarity:** Black Hot, White Hot, Inverted, Iron
- **Video Format:** MP4, 640x480
- **Media Storage:** Built-in memory
- **Ethernet:** Yes, 100 Mbps
- **Emissivity:** Variable, 0.01 to 1.0
- **Alarm:** Automatic alarms, Max 5 alarms
- **Spotmeter:** 6
- **Areas:** 6 boxes with max. / min. / average
- **External Input:** DC 12V to 24V
- **Pixel Operability:** > 99 %
- 25 G Shock / 2 G Vibration
- **Environment:** IP67
- **Dimensions:** 25 x 54 x 79 mm (H x W x D  $\pm$  .5 mm)
- **Weight:** < 226 g

## Features

- Unmatched image sensitivity
- Compact
- Easy to Install
- Can be Fixed Mounted
- Native Wide Dynamic Range
- Aluminum Enclosure
- Includes IR Flash Pro Software

## Applications

- High Voltage Cabinet Monitoring
- Semiconductor Manufacturing
- Process Control & 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

