

# 9320 P SERIES IR CAMERA



The ICI P Series IR Camera offers unmatched image sensitivity and accuracy in a 320 x 240 radiometric imager. With less than 2 in<sup>3</sup> in overall dimension the camera fits in the tightest of areas. The ICI P Series operates on less than 1 W of power, via a USB 2.0 connection, providing real time radiometric data streamed directly to any desktop, laptop, tablet or embedded system. Windows and Linux software, drivers and SDK are available for any and all custom applications. Includes IR Flash version 1.0 Software.

## Features

- Unmatched image sensitivity
- Multi-device linking
- Radiometric data streaming
- Integrates into embedded systems
- Windows and Linux software
- Small size
- Light weight
- Low power < 1 W by USB
- Drivers and SDK available

## Specifications

- **Detector Array:** UFPA (VOx)
- **Pixel Pitch:** 17  $\mu$ m
- **FOV:** lens dependent
- **Measurement Distance:** lens dependent
- **Pixel Resolution:** 320 x 240
- **Spectral Band:** 7  $\mu$ m to 14  $\mu$ m
- **Thermal Sensitivity (NETD):** < 0.02 °C at 30 °C (20 mK)
- **Frame Rate:** 60 Hz
- **Dynamic Range:** 14-bit
- **Temperature Range:** -40 °C to 120 °C
- **Operation Range:** -40 °C to 80 °C
- **Storage Range:** -40 °C to 70 °C
- **Humidity:** 5% to 95% non-condensing
- **Accuracy:**  $\pm$  0.2 °C
- **Pixel Operability:** > 99 %
- **Dimensions (without lens):** 30 mm x 30 mm x 34 mm (L x W x H  $\pm$  .5 mm)
- **Power:** < 1 W
- **Weight (without lens):** 29 g
- **Interface:** USB 2.0
- **Video:** raw data
- **Emissivity Correction:** 0.1 to 1.0
- **IP Rating:** IP 54
- Built in shutter
- Aluminum enclosure
- **ICI IR Flash 1.0 Software Requirements:**
  - Processor:** i5 or above
  - RAM:** 4 GB or above
  - OS:** Windows 8/8.1/10
  - Hard Drive:** 256 GB or above

## Applications

- Skin temperature measurement
- Hospital healthcare procedures
- Healthcare robotics
- Radiometric imaging
- Scientific research
- Breast imaging
- Airport screening
- Sub-acute healthcare settings

## Options & Accessories

- Optional: 1/4"-20 tripod
- Temperature reference source
- 8 mm Manual focus lens (40° x 30° FOV, +50 g)
- 12.5 mm Manual focus lens (25° x 18.8° FOV, +64 g)



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**THESE SYSTEMS ARE INTENDED TO BE USED ADJUNCTIVELY AND NOT AS STANDALONE DEVICES.**