

# IR-PAD 640 S SERIES GEN 2 IR CAMERA



Ideal for both preventive and ongoing care, ICI's IR-Pad 640 S Series IR Camera Gen 2 infrared tablet system serves as an all-in-one solution for capturing 640 x 512 high-resolution images and generating quality PDF reports. With an integrated 640 x 512 ICI Helios thermal camera, the system is designed to meet non-contact thermography requirements of health professional. Includes FREE trial of IR Flash Pro software.

## Features

- IR camera + tablet system
- Unparalleled image resolution
- Widescreen viewing
- Heavy duty tablet case
- Bluetooth® & WiFi connectivity
- Indoor/outdoor use
- Free trial of IR Flash software
- Type cover and built-in stand for desks
- IR Flash version 1.0 Software

## Applications

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

## Options & Accessories

- Optional: 30 Hz S-Series
- Optional: 1/4"-20 tripod
- Optional: Wireless touch pen
- Temperature reference source
- Detachable type cover
- Device charger
- Integrated visible camera

## Specifications

- **Pixel Resolution:** 640 x 512
- **Accuracy:**
  - Medical:  $\pm 0.2^{\circ}\text{C}$  ( $0.36^{\circ}\text{F}$ )
  - Standard:  $\pm 2^{\circ}\text{C}$  ( $\pm 3.6^{\circ}\text{F}$ ) or  $\pm 2\%$
- **Temperature Range:**
  - Medical:  $25^{\circ}\text{C}$  to  $45^{\circ}\text{C}$  ( $77^{\circ}\text{F}$  to  $113^{\circ}\text{F}$ )
  - Standard:  $-20^{\circ}\text{C}$  to  $150^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $302^{\circ}\text{F}$ )
- **Operation Range:**  $-40^{\circ}\text{C}$  to  $80^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $176^{\circ}\text{F}$ )
- **Storage Range:**  $-45^{\circ}\text{C}$  to  $70^{\circ}\text{C}$  ( $-49^{\circ}\text{F}$  to  $158^{\circ}\text{F}$ )
- **Detector Array:** UFPA (VOx)
- **Pixel Pitch:** 14  $\mu\text{m}$
- **Focal Length:** 12.5 mm
- **FOV:**  $39.4^{\circ}$  x  $31.9^{\circ}$
- **Spectral Band:** 8  $\mu\text{m}$  to 14  $\mu\text{m}$
- **Thermal Sensitivity (NETD):** < (20 mK)  $0.02^{\circ}\text{C}$  at  $30^{\circ}\text{C}$  ( $86^{\circ}\text{F}$ )
- **Frame Rate:** 7.5 Hz P-Series
- **Dynamic Range:** 14-bit
- **Humidity:** 5% to 95% non-condensing
- **Pixel Operability:** > 99 %
- **Shock/Vibration:** 75 G/2 G
- **Dimensions:**
  - 287 mm x 208 mm x 9.3 mm (L x W x D  $\pm 0.5$  mm)
  - (11.3 in x 8.2 in x 0.37 in (L x W x H  $\pm 0.02$  in))
- **Power:** 12 V DC 2.58 A, < 36 W
- **Battery:** Lithium battery, built-in, rechargeable
- **Weight (without lens):** 1660 g (3.66 lbs)
- **Interface:** USB-C
- **Video:** Radiometric IR and MP4 Visible
- **Video Format:** MP4, 1920 x 1080 @ 30 fps
- **Image Format:** JPG
- **Image Polarity:** Iron, White Hot, Black Hot, Rainbow, IR11, IR256, Research, Rainbow Percentage, Invert
- **Emissivity Correction:** 0.01 to 1.0
- **IP Rating:** IP54
- **Operating System:** Windows 11
- **Processor:** 11th Gen Intel Core i5
- **Storage:** 128 GB
- **RAM:** 8 GB
- **Screen size:** 13 in
- **Screen resolution:** 2880 x 1920, 3:2
- **Touch:** multi-touch enabled
- **Visible cameras:** rear facing 10.0MP at 1080p HD and 4k, front facing 5 MP at 1080p full HD
- **Wi-Fi 6:** 802.11ax compatible
- **Bluetooth®** Wireless 5.1
- Stereo microphone and stereo speakers w/ Dolby™ Audio
- Ambient light sensor
- Accelerometer, Gyroscope, and Magnetometer
- Internal non-uniformity correction (NUC)

**THIS DEVICE IS INTENDED FOR ADJUNCTIVE USE WITH OTHER CLINICAL DIAGNOSTIC PROCEDURES TO MEASURE HUMAN BODY TEMPERATURE VIA NON-CONTACT SKIN MEASUREMENTS VISUALIZED FROM THE HUMAN FACE. NOT MEANT FOR STANDALONE CLINICAL DIAGNOSTIC PROCEDURES OR TO TREAT OR DIAGNOSE PATIENTS.**