

NEXT GENERATION THERMAL IMAGING

PROFESSIONAL RELIABILITY

The ICI IR-Pad 640 Industrial Gen 2 infrared tablet system, featuring the integrated ICI Helios thermal camera, is an all-in-one solution designed for thermal imaging and report building in industrial settings. This advanced device captures high-resolution infrared images and offers temperature measurement capabilities up to 500°C (932°F) with an accuracy of $\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or $\pm 2\%$, whichever is greater. With its user-friendly 13" multi-touch enabled screen, the Gen 2 tablet aims to meet the specific thermographic requirements of industrial inspectors, enabling them to maximize their fieldwork efficiency.



IR-Pad 640 Industrial Gen 2



HIGH-PERFORMANCE THERMAL CAMERA

The Gen 2 device has an integrated ICI Helios thermal camera and is capable of capturing 640 x 512 resolution infrared images. This high-performance camera ensures detailed and accurate thermal imaging, providing valuable insights into temperature variations within industrial environments. With a temperature measurement range extending up to 500°C (932°F), the Gen 2 tablet facilitates precise monitoring and analysis of heat patterns, assisting in identifying potential issues or anomalies.



ENHANCED IMAGING CAPABILITIES

The IR-Pad Gen 2 tablet not only excels in thermal imaging but also offers enhanced visual imaging capabilities. It is equipped with built-in 1080p visible cameras and a rear-facing camera capable of capturing images with 4k resolution. This combination allows inspectors to obtain clear and detailed visual images alongside the thermal data, providing a comprehensive view of the inspected area. Furthermore, the device supports 1080p MP4 video recording, enabling the capture of dynamic processes or events for later analysis or documentation.



RUGGED AND FUNCTIONAL

Designed to withstand demanding industrial conditions, the IR-Pad Gen 2 tablet has an IP54 ingress rating, providing dust and water resistance. This ruggedness ensures reliable operation in harsh environments, allowing inspectors to confidently perform tasks. The tablet includes a USB-C port as well as Bluetooth® and Wi-Fi connectivity for efficient data transfer, enabling seamless connectivity with other devices or systems for data management and sharing. The IR-Pad also comes with a free trial of the IR Flash Pro software, further enhancing its functionality and providing comprehensive thermal analysis and reporting capabilities.



ICI's IR-Pad 640 Industrial Gen 2 infrared tablet system, with integrated 640 x 512 ICI Helios thermal camera, serves as an all-in-one solution for thermal imaging and report building. With its rugged design and large screen, the Gen 2 is specifically designed to meet industrial thermographic requirements and allow inspectors to spend more time in the field and less time in the office. Built-in 1080p visible cameras with 4k resolution on the rear-facing camera provide enhanced imaging capabilities. Includes 1 USB-C port as well as Bluetooth® and Wi-Fi connectivity for efficient data transfer and management. Comes with a free trial of the 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

Applications

- Process control
- Robotics
- Industrial vision systems
- Aerial radiometric imaging
- Scientific research
- Building automation
- Security monitoring
- Electrical inspection

Options & Accessories

- Optional: 0 °C to 500 °C (32°F to 932 °F)
- Optional: 7.5 Hz S-Series
- Wireless touch pen
- Detachable type cover
- Device charger
- Adjustable neckstrap
- Integrated visible camera

Specifications

- **Pixel Resolution:** 640 x 512
- **Accuracy:** ± 2°C (± 3.6°F) or ± 2%
- **Temperature Range:**
 - Standard: -20°C to 150°C (-4°F to 302°F)
 - Hi-Temp (optional): 0°C to 500°C (32°F to 932°F)
- **Operation Range:** -40°C to 80°C (-40°F to 176°F)
- **Storage Range:** -45°C to 70°C (-49°F to 158°F)
- **Detector Array:** UFPA (VOx)
- **Pixel Pitch:** 14 µm
- **FOV:** lens dependent
- **Measurement Distance:** lens dependent
- **Spectral Band:** 8 µm to 14 µm
- **Thermal Sensitivity (NETD):**
 - < (20 mK) 0.02 °C at 30 °C (86°F)
- **Frame Rate:** 30 Hz P-Series or 7.5 Hz S-Series
- **Dynamic Range:** 14-bit
- **Humidity:** 5% to 95% non-condensing
- **Pixel Operability:** > 99%
- **Shock/Vibration:** 25 G/2.5 G
- **Dimensions:**
 - 287 mm x 208 mm x 9.3 mm (L x W x D ± 0.5 mm)
 - (11.3 in x 8.2 in x 0.37 in (L x W x H ± 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)