

PROFESSIONAL RELIABILITY

Presenting the ICI IR-Pad 640 Electrical Gen 2— an all-in-one tablet system designed for professional research and development, this device offers high-resolution infrared capture, providing precise temperature measurements up to 500°C (932°F) with an impressive accuracy of $\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) or $\pm 2\%$. The 13" user-friendly multi-touch screen is tailored to researchers' thermographic needs, empowering them to unlock tomorrow's discoveries today. Includes a complimentary trial of the IR Flash Pro software. Experience the precision and convenience of the Gen 2 Thermal Tablet System, elevating your research to new heights.

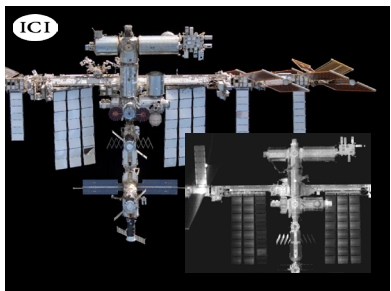


IR-Pad 640 Electrical Gen 2



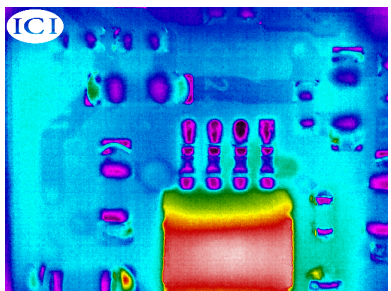
HIGH-PERFORMANCE THERMAL CAMERA

Seamlessly integrated into the ICI IR-Pad 640 Research is an ICI Helios thermal camera capable of capturing high-resolution 640 x 512 infrared images. This advanced camera guarantees meticulous thermal imaging for accurate insights during research and development projects. With a temperature measurement range of up to 500°C (932°F), the Gen 2 tablet enables precise monitoring and analysis of heat patterns, aiding in the early identification of potential issues or anomalies.



ENHANCED MEDIA CAPABILITIES

The IR-Pad Gen 2 tablet not only has superior thermal imaging but also advanced visual capabilities. With built-in 1080p visible cameras and a rear-facing camera capable of 4k resolution, it empowers researchers and robotics experts to capture crisp, high-detail images. This dual capability ensures a holistic view of the research area by seamlessly integrating visual images with thermal data. Additionally, the device supports 1080p MP4 video recording, providing the flexibility to capture dynamic processes or events for subsequent in-depth analysis or documentation.



RUGGED AND FUNCTIONAL

Crafted to endure rigorous research and development settings, the IR-Pad Gen 2 tablet has an IP54 ingress rating, safeguarding against dust and water. This rugged design guarantees dependable performance in challenging settings, empowering researchers to execute tasks with confidence. Featuring a USB-C port along with Bluetooth® and Wi-Fi connectivity, the tablet facilitates efficient data transfer between devices or systems for streamlined data management and sharing.



Introducing the ICI IR-Pad 640 Research—a cutting-edge infrared camera/tablet system seamlessly integrating thermal imaging and report creation. Featuring a custom Helios 640 thermal camera, it captures vivid 640 x 512 resolution images. Crafted exclusively for thermography research and development, this unbeatable design comes with a complimentary trial of IR Flash Pro software. Elevate your research capabilities with unmatched precision and efficiency.

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
- Optional: Wireless touch pen
- Detachable type cover
- Device charger
- Adjustable neckstrap
- Integrated visible camera

Specifications

- **Pixel Resolution:** 640 x 512
- **Accuracy:** $\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$) or $\pm 2\%$
- **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
- **Focal Length:** 12.5 mm
- **FOV:** 39.4° x 31.9°
- **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 of Thermal Camera:** 40 G/4.3 G
- **Dimensions:**
 - 225 mm x 397 mm x 93 mm (L x W x D ± 0.5 mm)
 - (8.86" x 15.63" x 3.66" (L x W x H ± 0.02 "))
- **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)