

# NEXT GENERATION THERMAL IMAGING

## PROFESSIONAL RELIABILITY

Presenting the ICI IR-Pad 640 Electrical Gen 2— an all-in-one tablet system meticulously crafted for professional electrical inspections. Our cutting-edge IR-Pad device stands as a pinnacle of innovation, offering high-resolution infrared imaging and ensuring 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 built for electrical system analysis and report generation, empowering comprehensive preventative maintenance programs and enhancing safety protocols. Includes a complimentary trial of the IR Flash Pro software. Elevate your inspections with the precision and convenience of the Gen 2 thermal tablet system.



IR-Pad 640 Electrical Gen 2



## HIGH-PERFORMANCE THERMAL CAMERA

Seamlessly integrated into the ICI IR-Pad 640 Electrical 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 substation, transformer, and various electrical inspections. 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 embodies excellence in thermal imaging for electrical inspectors, integrating cutting-edge visual capabilities. Equipped with built-in 1080p visible cameras and a rear-facing camera offering 4k resolution, this tablet empowers thermographers to capture precise, high-detail images. Furthermore, the device supports 1080p MP4 video recording, offering flexibility to capture dynamic processes or events for subsequent in-depth analysis and documentation.



## RUGGED AND FUNCTIONAL

Engineered to withstand demanding electrical environments, the IR-Pad Gen 2 tablet features an IP54 ingress rating, ensuring resilience against dust and water. This robust design ensures reliable performance in challenging settings, empowering electrical inspectors to execute tasks with unwavering confidence. Equipped with a USB-C port, as well as Bluetooth® and Wi-Fi connectivity, the tablet facilitates seamless data transfer between devices or systems, fostering streamlined data management and sharing.



Introducing the ICI IR-Pad 640 Electrical Gen 2— a state-of-the-art infrared camera/tablet system that seamlessly integrates thermal imaging and report creation, featuring ICI's custom Helios 640 thermal camera to capture high-resolution 640 x 512 images. Tailored exclusively for electrical inspections, this exceptional design includes a complimentary trial of IR Flash Pro software. Elevate your predictive maintenance programs and enhance safety with the unparalleled precision and efficiency of the IR-Pad Electrical Gen 2 thermal camera.

## 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

- Electrical inspections
- Predictive maintenance
- Electrical poles/cabinets
- Dry transformers
- Underground electrical
- Substations
- HVAC/cold storage
- Scientific research
- Home contractor inspections

## 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:** ± 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
- **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:** 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)