

# ICI | IR-Pad 640



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We are IR™

# ICI | IR-Pad 640

The ICI IR-Pad 640 infrared camera/tablet system is a winning combination for capturing images in 640x480 pixel resolution quality. It is perfect for indoor and outdoor field research or routine inspections. This ultra rugged IR-Pad 640 uses our custom ICI 8640 infrared camera to capture your thermal images and store them on a 128 GB hard drive. The unbeatable design was manufactured for all thermography research and development applications. Includes real-time analysis with our IR Flash Pro software.

## Features

- IR Camera + Tablet System
- Unparalleled Image Resolution
- Widescreen Viewing
- Heavy Duty Tablet Case
- Bluetooth Connectivity
- Indoor/Outdoor Use
- Adjustable Neckstrap and Stand
- IR Flash Touch Software
- Analysis/Report Building Software
- Portable
- 8 Palettes including B&W

## Applications

- Process Control
- Robotics
- Industrial Vision Systems
- Aerial Radiometric Imaging
- Scientific Research
- Building Automation
- Security Monitoring
- Electrical Inspection

## Specifications

- **Detector Array:** UFPA (VOx)
- **Pixel Pitch:** 17  $\mu$ m
- **Pixel Resolution:** 640x480
- **Spectral Band:** 7  $\mu$ m to 14  $\mu$ m
- **Thermal Sensitivity (NETD):** < 0.02 °C at 30 °C (20 mK)
- **Frame Rate:** 30 Hz P-Series or 9 Hz S-Series
- **Dynamic Range:** 14-bit
- **Temp. Range:** -40 °C to 140 °C
- **Operation Range:** -40 °C to 80 °C
- **Storage Range:** -40 °C to 70 °C
- **Accuracy:**  $\pm$  1 °C
- **Pixel Operability:** > 99 %
- 75 G Shock / 4 G Vibration
- **Dimensions (without lens):** 209 x 311 x 19 mm (H x W x D  $\pm$  .5 mm)
- **Weight (without lens):** 1400 g
- USB 2.0 for Power & Data
- USB, HD Video Out
- Built in Shutter
- Internal NUC
- **Power:** Built-in, Rechargeable
- **Operating System:** Windows 10
- ICI IR Flash Pro Software
- **Screen Size:** 12"
- **Screen Resolution:** 2160x1440 16:9 (widescreen)
- **Processor:** 4th Gen Intel Core i5
- **Storage:** 128 GB
- **RAM:** 4 GB
- **Touch:** Multi-touch
- Wi-Fi 802.11ac/802.11 a/b/g/n
- Bluetooth® 4.0 Low Energy
- Digital Compass
- **Digital Cameras:** 5 MP Rear Facing Camera 5 MP Front Facing Camera
- **Video Format:** MP4, > 60 minutes 1280x960 @ 30 fps
- **Video Out:** Micro HDMI
- **Image Format:** JPG
- **Image Polarity:** Iron, White Hot, Black Hot, Rainbow, IR11, IR256 Research, Rainbow Percentage
- Stereo Microphone
- Stereo Speakers w/ Dolby™ Sound
- 3-axis Accelerometers
- 3-axis Gyroscope
- Magnetometer
- Surface Pen
- E-Mail

## Options & Accessories

- 12.5 mm Manual Focus Lens (50° x 37.5° FOV, +64 g)
- 13 mm Fixed Focus Lens (45° x 37° FOV, +45 g)
- 19 mm Fixed Focus Lens (32° x 26° FOV, +25 g)
- 25 mm Fixed Focus Lens (25° x 20° FOV, +50 g)
- 30 mm Manual Focus Lens (20° x 15° FOV, +100 grams)
- 35 mm Fixed Focus Lens (18° x 14° FOV, +100 g)
- 50 mm Fixed Focus Lens (12.4° x 9.9° FOV, 230 g)
- 60 mm Fixed Focus Lens (10.4° x 8.3° FOV, 460 g)
- 100 mm Fixed Focus Lens (6.2° x 5° FOV, 460 g)

