



The ICI IR-Pad 640 Builder infrared camera/tablet system is an all-in-one thermal imager and report building device. It utilizes a custom 8640 infrared camera to capture 640 x 512 resolution images. Search for water damage, air leaks, or deteriorating insulation. Find overheating electrical lines and fuses. Intuitive touch screen interface. Features Bluetooth® and Wi-Fi connectivity. Includes IR Flash Pro Software.

Features

- IR camera + tablet system
- Unparalleled Image resolution
- Widescreen viewing
- Heavy duty tablet case
- Bluetooth® & WiFi connectivity
- Indoor/outdoor use
- Adjustable neckstrap and built in stand
- IR Flash software
- IR Reporter software
- Intuitive interface
- Multiple color palettes

Applications

- Building/home inspections
- Insulation inspections
- Electrical inspections
- Air leakage
- Roof inspections
- HVAC inspections
- Real estate appraisals
- Plumbing/swimming pools

Options & Accessories

- Optional: 0 °C to 500 °C (32°F to 932 °F)
- Optional: 7.5 Hz S-Series
- Optional: touch pen
- 12.5 mm manual focus lens (50° x 37.5° FOV, +64 g (2.26 oz))
- 13 mm Fixed focus lens (45° x 37° FOV, +45 g (1.59 oz))
- 19 mm Fixed focus lens (32° x 26° FOV, +25 g (0.88 oz))
- 25 mm Fixed focus lens (25° x 20° FOV, +50 g (1.76 oz))
- 30 mm Manual focus lens (20° x 15° FOV, +100 g (3.52 oz))
- 35 mm Fixed focus lens (18° x 14° FOV, +100 g (3.52 oz))
- 50 mm Fixed focus lens (12.4° x 9.9° FOV, 230 g (8.11 oz))
- 60 mm Fixed focus lens (10.4° x 8.3° FOV, 460 g (16.23 oz))
- 100 mm Fixed focus lens (6.2° x 5° FOV, 460 g (16.23 oz))
- Integrated visible camera

Specifications

- **Pixel Resolution:** 640 x 512
- **Accuracy:** ± 1 °C (± 1.8 °F) or ± 1%
- **Temperature Range:**
 - Standard: -40 °C to 140 °C (-40 °F to 284 °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:** -40 °C to 70 °C (-40 °F to 158 °F)
- **Detector Array:** UFPA (VOx)
- **Pixel Pitch:** 17 µm
- **FOV:** lens dependent
- **Measurement Distance:** lens dependent
- **Spectral Band:** 7 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 %
- **Dimensions:**
 - 211 mm x 303 mm x 54 mm (L x W x D ± 0.5 mm)
 - (8.31" x 11.93" x 2.13" (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 2.0
- **Video:** Radiometric IR and MP4 Visible
- **Video Format:** MP4, 1920 x 1080 @ 30 fps
- **Video Out:** USB-C
- **Image Format:** JPG
- **Image Polarity:** Iron, White Hot, Black Hot, Rainbow, IR11, IR256, Research, Rainbow Percentage
- **Emissivity Correction:** 0.01 to 1.0
- **IP Rating:** IP 54
- Internal non-uniformity correction (NUC)
- **Operating System:** Windows 10
- **Processor:** 10th Gen Intel Core i5
- **Storage:** 128 GB
- **RAM:** 8 GB
- **Screen size:** 12.3"
- **Screen resolution:** 2736 x 1824, 3:2
- **Touch:** multi-touch enabled
- **Visible cameras:** rear facing 8 MP at 3264 x 2448, front facing 5 MP at 2560 x 1920
- Wi-Fi 802.11ax/ac/n/g/b/a
- Bluetooth® Wireless 5.0
- Stereo microphone and stereo speakers w/ Dolby™ Audio
- Ambient light sensor
- Accelerometer, Gyroscope, and Magnetometer