



The ICI IR-Pad 320 Builder infrared camera/tablet system is the perfect all-in-one device for thermal imaging and report building. Utilizes a customized ICI 8320 infrared camera to capture all of your thermal images. Switch between visible and infrared modes; multiple color palettes available to enhance viewing. Intuitive touch screen interface. Features Bluetooth® and WiFi Connectivity. The ultra rugged design is unbeatable and is applicable to any situation that a builder or building inspector may encounter. Includes FREE trial of IR Flash Pro software.

Features

- IR camera + tablet system
- Unparalleled Image resolution
- Widescreen viewing
- Heavy duty tablet case
- Bluetooth® & WiFi connectivity
- Analysis and report building capabilities
- Intuitive interface
- 8 color palettes including B&W

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
- 5 mm Fixed focus lens (58° x 44.5° FOV, +35 g (1.23 oz))
- 8 mm Fixed focus lens (40° x 30° FOV, +40 g (1.41 oz))
- 9 mm Fixed focus lens (69° x 56° FOV, +40 g (1.41 oz))
- 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))
- 33 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:** 336 x 256
- **Accuracy:** $\pm 1\text{ }^{\circ}\text{C}$ ($\pm 1.8\text{ }^{\circ}\text{F}$) or $\pm 1\%$
- **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:** 60 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 Infrared Camera:** 200 G/4.3 G
- **Dimensions:**
 - 225 mm x 397 mm x 93 mm (L x W x D $\pm 0.5\text{ mm}$)
 - (8.86" x 15.63" x 3.66" (L x W x H $\pm 0.02"$))
- **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:** 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)