

# ICI | T-Cam 160 XT



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We are IR™

# ICI | T-Cam 160 XT

Our T-Cam 160 XT is perfect for Home Contractors, Building Inspectors, Electricians, Police, and more. Locate air leaks and deteriorating insulation to save on energy costs. Inspect critical infrastructure, roofs, and perform general maintenance on homes and businesses. Search Buildings, Fence Lines, Sidewalks, and Parking lots. Track Hiding Criminals, day or night. Avoid Light blindness from holding a Infrared Thermal Monocular Viewer to your eye. A selection of color palettes also enhances thermal image viewing. Features ICI Dual Vision to overlay Visible and Infrared Images. Employs a simple four-button design with intuitive interface. Comes with Voice / Text annotation and ICI Reporting Software for accurate report building.

## Features

- ICI Dual Vision - IR and Visible
- Dual Temperature Range
- Single-Handed Operation
- Simple Four-Button Design
- Intuitive Interface
- 32X continuous zoom
- Customizable Emissivity + Presets
- Hot/Cold spot markers
- HDMI video out
- Built in Shutter
- Voice / Text annotation
- Light Weight / Portable
- Multiple Color Palettes
- Withstands Light Weather

## Applications

- Insulation Inspections
- Air Leakage / Energy Saving
- Home Contractor Inspections
- Roof Inspections
- HVAC / Cold Storage
- Electrical / General Maintenance
- Security Monitoring
- Home / Building Security
- Airport / Airfield Surveillance
- Port / Coastal Surveillance
- Critical Infrastructure

## Options & Accessories

- Heavy Duty Soft Carrying Case
- Handstrap
- Sun visor (Optional)
- AC charger/power supply
- Battery charger
- Micro SD Card, 8 GB
- WiFi Connectivity (Optional)
- ICI Reporter Software

## Specifications

- **Detector Array:** Microbolometer
- **Pixel Resolution:** 160x120
- **Spectral Band:** 8  $\mu$ m to 14  $\mu$ m
- **Thermal Sensitivity (NETD):** < 0.1  $^{\circ}$ C at 30  $^{\circ}$ C (100 mK)
- **Accuracy:**  $\pm$  2 $^{\circ}$ C
- **FOV:** 17 $^{\circ}$  x 17 $^{\circ}$
- **Focal Length:** 9mm
- **Minimum Focal Distance:** 0.5m
- **Frame Rate:** 50Hz P-Series
- **Dynamic Range:** 14-bit
- **Temperature Range:**  
Range 1: 0  $^{\circ}$ C to 350  $^{\circ}$ C  
Range 2: -20  $^{\circ}$ C to 150  $^{\circ}$ C
- **Operation Range:** -15  $^{\circ}$ C to 50  $^{\circ}$ C
- **Storage Range:** -40  $^{\circ}$ C to 70  $^{\circ}$ C
- **Display:** 2.8" Color LCD, 240x320
- **Digital Camera:** 5 MP
- **Focus:** Manual
- **Zoom:** 1-32X continuous, digital zoom
- **Voice Annotation:** 60 Seconds/image
- **Text Annotation:** 60 Seconds/image
- **Video Format:** MP4, > 60 minutes  
1280x960 @ 30 fps
- **Video Out:** Micro HDMI
- **Image Format:** JPG, > 6,000 images
- **Image Polarity:** White Hot, Black Hot, Iron, Rainbow
- **Data Transfer:** USB-mini 2.0
- **Memory Card:** MicroSD Card, 8 G
- **Battery:** Li-ion, rechargeable
- **Operation Time:** 4 Hours
- **External Input:** DC 5V
- **Interface:** USB-mini, Micro HDMI, Audio
- **Drop Test:** 2 m
- 25 G Shock / 2 G Vibration
- **Environment:** IP54
- **Dimensions (with battery):** 224 x 77 x 96mm (H x W x D  $\pm$  .5mm)
- **Weight (with battery):** 500 g
- **Languages:** Multinational
- **Pixel Operability:** > 99 %
- Attached Camera Lens Cap
- Earphone Jack



# T-Cam 160 Series Specifications

Models	P	XT
Temperature Range	-20 $^{\circ}$ C to 150 $^{\circ}$ C or 0 $^{\circ}$ C to 400 $^{\circ}$ C	0 $^{\circ}$ C to 350 $^{\circ}$ C or -20 $^{\circ}$ to 150 $^{\circ}$ C
Thermal Sensitivity (NETD)	< .08 $^{\circ}$ C at 30 $^{\circ}$ C (80 mK)	< 0.1 $^{\circ}$ C at 30 $^{\circ}$ C (100 mK)
Detector Type	Uncooled FPA Microbolometer	
Focal Plane Array	160x120	
Focus	Manual	
Dynamic Range	14-bit	
Focal Length	7.5 mm	9 mm
Frame Rate	50 Hz	
Field of View / FOV	17 $^{\circ}$ x 17 $^{\circ}$	29.8 $^{\circ}$ x 22.6 $^{\circ}$
Spectral Range	8 $\mu$ m to 14 $\mu$ m	
Display	3.5", Color LCD, 320x240, Touchscreen	2.8", Color LCD, 240x320
Battery Type	Li-Polymer, Rechargeable	Li-ion, Rechargeable
Operation Time	4.5 hours continuous	4 hours continuous
Drop Resistance	2 m	
Dimensions	< 243 x 103 x 160 mm	< 224 x 77 x 96 mm
Weight	920 g	500 g
Environment Rating	IP65	IP54
Charging System	In Camera (AC Adapter)	
External DC Input	DC 9V to 12V (Micro USB)	DC 5V (Micro USB)
Languages	Multinational	
Waterproof	No, Water Resistant	
Submersible	No	
Bluetooth	No	Optional
WiFi	Optional	
Cross Hair	Yes	
Laser Indicate	Yes	
Image Polarity	White Hot, Black Hot, Iron, Iron Invert Rainbow, Feather	White Hot, Black Hot, Iron, Rainbow
Image Format	JPG, > 1,000 images	JPG, > 6,000 images
Video Format	MP4, 640x480 @ 30 fps	MP4, 1280x960 @ 30 fps
Voice Annotation	Yes, 60 Seconds per Image	
Text Annotation	Yes, 60 Seconds per Image	
Zoom	1-20x Continuous	1-32x Continuous
Shock / Bump	25 G	
Vibration	2 G	
Humidity	10 % ~ 90 %	