

Zenmuse XT SPECS

General

- **Model**
 - Zenmuse XT
- **Dimensions**
 - 103 mm x 74 mm x 102 mm
- **Weight**
 - 270 g

Gimbal

- **Angular Vibration Range**
 - $\pm 0.03^\circ$
- **Mount**
 - Detachable
- **Controllable Range**
 - Tilt: $+35^\circ$ to -90° ; Pan: $\pm 320^\circ$; Roll: $\pm 15^\circ$
- **Mechanical Range**
 - Tilt: $+45^\circ$ to -135° Pan: $\pm 320^\circ$ Roll: $\pm 45^\circ$
- **Max Controllable Speed**
 - $120^\circ/\text{s}$

Camera

- **Thermal Imager**
 - Uncooled VOx Microbolometer
- **FPA/Digital Video Display Formats**
 - - 640×512
 - 336×256
- **Analog Video Display Formats**
 - 720×480 (NTSC); 720×576 (PAL)
- **Pixel Pitch**
 - $17 \mu\text{m}$
- **Spectral Band**
 - $7.5 - 13.5 \mu\text{m}$

- **Full Frame Rates**
 -
 - 640×512 : 30 Hz (NTSC) 25 Hz (PAL)
 - 336×256 : 30 Hz (NTSC) 25 Hz (PAL)
- **Exportable Frame Rates**
- 7.5 Hz NTSC; 8.3 Hz PAL
- **Sensitivity (NE Δ T)**
- <50 mK at f/1.0
- **Scene Range (High Gain)**
 -
 - 640×512 : -13° to 275°F (-25° to 135°C)
 - 336×256 : -13° to 212°F (-25° to 100°C)
- **Scene Range (Low Gain)**
- -40° to 1022°F (-40° to 550°C)
- **Spot Meter**
- Temperatures measured in central 4×4
- **File Storage**
- Micro SD Card
- **Photo Format**
- JPEG, TIFF
- **Video Format**
- MP4

Image Processing & Display Controls

- **NTSC/PAL (field switchable)**
- yes
- **Image Optimization**
- yes
- **Digital Detail Enhancement**
- yes
- **Polarity Control (black hot/white hot)**
- yes
- **Color & Monochrome Palettes (LUTs)**
- yes
- **Digital Zoom**
- 640×512 :

2x, 4x, 8x

336 × 256:

2x, 4x

Environmental

- **Operating Temperature Range**
- 14° to 104°F (-10° to 40 °C)

- **Non-Operating Temperature Range**
- -22° to 158°F (-30° to 70 °C)

- **Temperature Shock**
- 5 °C/min

- **Humidity**
- 5% to 95%