



# ZENMUSE XT

## GENERAL

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

## 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 μm
Spectral Band	7.5 - 13.5 μm
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 (NEΔT)	<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



## ZENMUSE XT

Photo Format JPEG, TIFF

Video Format MP4

### 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%

### GIMBAL

Angular Vibration Range  $\pm 0.03^\circ$

Mount Detachable

Controllable Range Tilt : +35° to -90°; Pan :  $\pm 320^\circ$ ; Roll :  $\pm 15^\circ$

Mechanical Range Tilt : +45° to -135° Pan :  $\pm 320^\circ$  Roll :  $\pm 45^\circ$

Max Controllable Speed 120°/s

### IMAGE PROCESSING & DISPLAY CONTROLS

NTSC/PAL (field switchable) yes

Image Optimization yes

Digital Detail Enhancement yes

Polarity Control (black hot/white hot) yes



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Color & Monochrome Palettes (LUTs)      yes

Digital Zoom      640 × 512:  
2x, 4x, 8x

336 × 256:  
2x, 4x

## LENS MODELS

Lens Models		6.8 mm	7.5 mm	9 mm	13 mm	19 mm
17μ 640×512	FoV iFoV	/	f/1.4 90° x 69° 2.267 mr	f/1.4 69° x 56° 1.889 mr	f/1.25 45° x 37° 1.308 mr	f/1.25 32° x 26° 0.895 mr
17μ 336×256	FoV iFoV	f/1.4 49.1° x 37.4° 2.519 mr	/	f/1.25 35° x 27° 1.889 mr	f/1.25 25° x 19° 1.308 mr	f/1.25 17° x 13° 0.895 mr
Min Focus Distance		2.3 cm	2.5 cm	3.2 cm	7.6 cm	15.3 cm
Hyperfocal Distance		1.2 m	1.2 m	2.1 m	4.4 m	9.5 m
Hyperfocal Depth of Field		0.6 m	0.6 m	1.1 m	2.2 m	4.8 m