

TopX Series

TopX series are adopted self-developed ceramic package uncooled infrared detector, with the high performance DSP circuit and image processing algorithm, which can output defined image. TopX is equipped with the tiny dimension, lower power consumption and high reliability features.



Tiny size and light weight

Compact size with 25.4x25.4 for easy integration with third party.



Multiple image algorithms

Advanced NUC/3DNR/DNS/DDE image algorithm for more defined image at the heavy weather.



Friendly application interface

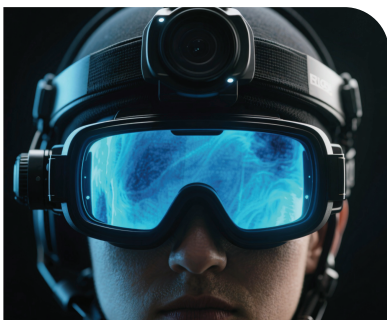
Support analog & USB2.0 & MIPI image output suitable for diverse surroundings, and to be integrated crosshairs function is used in special scenario.



Thermal image resolution up to 640*512

Adopt high sensitivity sensor with the NETD less than 30mk, and resolution with 640*512.

Applications



Head mounted



Rescue

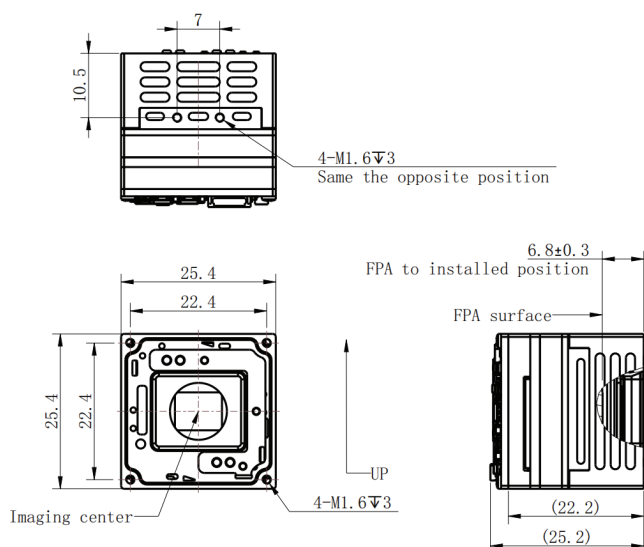


FPV pod

Specifications

Model	TopX6
Infrared Detector	
Resolution	640×512
Pixel pitch	12μm
Spectral range	8μm~14μm
NETD	≤ 30mK@25°C
Image Effect	
Frame rate	50Hz
Starting time	≤15s
Image interface	Analog thermal core:CVBS & USB Digital thermal core: MIPI & USB/DVP & USB
Palette	13 types option (white heat,lava,red iron,light green, black heat etc)
Image algorithm	NUC/3DNR/DNS/DDE
Digital zoom	1.0~4.0x (step size 0.1)
Mirror image	Right & left, up & down, diagonal line
Crosshairs	Show, blank, moving
General	
Communication mode	USB2.0/UART
Power supply	DC3.9~5.5V(5V commonly)
Mini power consumption	≤1.2W
尺寸 (mm)	25.4x25.4 (w/o lens)
Weight	27.5±1g (w/o lens)
Working temperature	-40°C~+60°C
Storage temperature	-45°C~+85°C
Antivibration	Random vibration: 5.35grms, 3 axis
shock resistance	Half sinusoid: 40g/11ms, 3 axis
Optical lens	
Optional lens	Athermalization: 9.1mm/13mm/19mm/25mm/35mm/50mm/75mm

Dimension



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