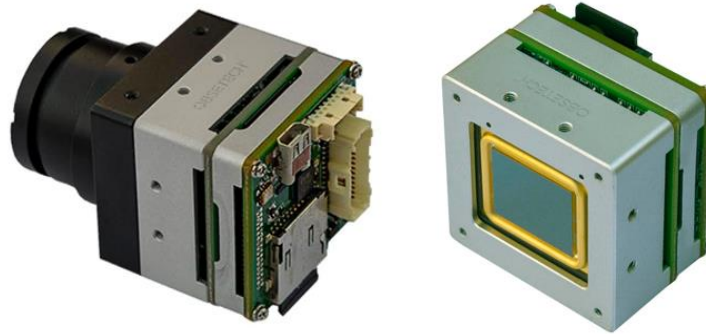


OBSETECH X-Core

Small and reliable uncooled LWIR shutterless thermal imaging core with excellent vibration resistance designed for multiple integrations: UAVs, UGVs, weapon sights, handheld and other systems. X-Core has SD Card slot for picture and video recording and optional micro HDMI digital video output.

Detector	
Type	Uncooled FPA Microbolometer (ULIS)
Pixel resolution	640×480
Pixel pitch	17µm
Spectral Range	8 ~ 14µm
NETD	≤50mk@30℃
Image	
Frame rate	25Hz or 50Hz
Noise reduction	Digital filtering
Image enhancement	TIE imaging enhance technology, Edgex
Digital zoom	2x, 4x, 8x, 16x / Smooth zoom
Polarity reversal	Available
Image flip	Horizontal, Vertical, 180° Flip
Startup	≤3s
NUC	NBT shutterless technology, Digital calibration
Display	
Video output	CVBS 50Hz (PAL) / 60Hz (NTSC)
Digital video	Micro HDMI (optional)
Palette	12 palettes
Gain/Brightness adjustment	Auto / Manual
Interface	
Serial port	3.3V TTL, 4 port PWM control
HDMI	Available
Storage	TF card slot (max 128GB)
Power	
Operating voltage	5.0 - 12.0 VDC
Power consumption	≤2.6W (9V)
Environment	
Operating temperature	-40℃ ~ +65℃
Storage temperature	-50℃ ~ +85℃
Humidity	5-95% non-condensing
Axial shock level	Axial: 100g/6ms, GJB 150-18
Lateral shock level	Lateral: 40g/11ms, GJB 150-18
Vibration	GJB 150-16 2.3.1

Physical Characteristic	
Dimension	32mm x 32mm x 41mm (W x H x L) (without lens)
Weight	< 45g (without lens)



Drawing:

