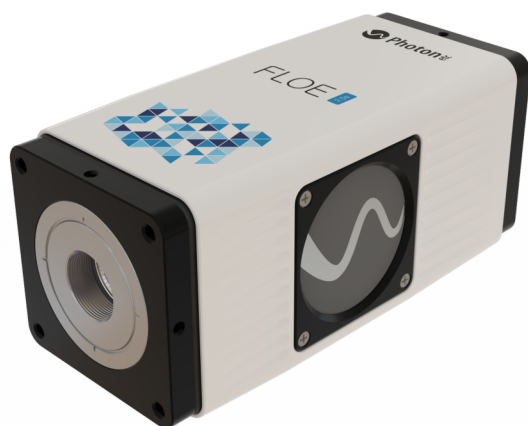


FLOE™ 2.5s

INFRARED CAMERA



The FLOE 2.5s is an extended shortwave infrared (eSWIR) camera utilizing advanced HgCdTe (MCT) sensor technology to deliver high-resolution 640×512 imaging across a 0.8 to 2.5-micron spectral range. This lightweight, low-noise system combines high-speed acquisition capabilities with thermoelectric cooling for extended operational longevity, optimized for seamless integration into demanding defense, industrial, and OEM applications.

TECHNICAL SPECIFICATIONS

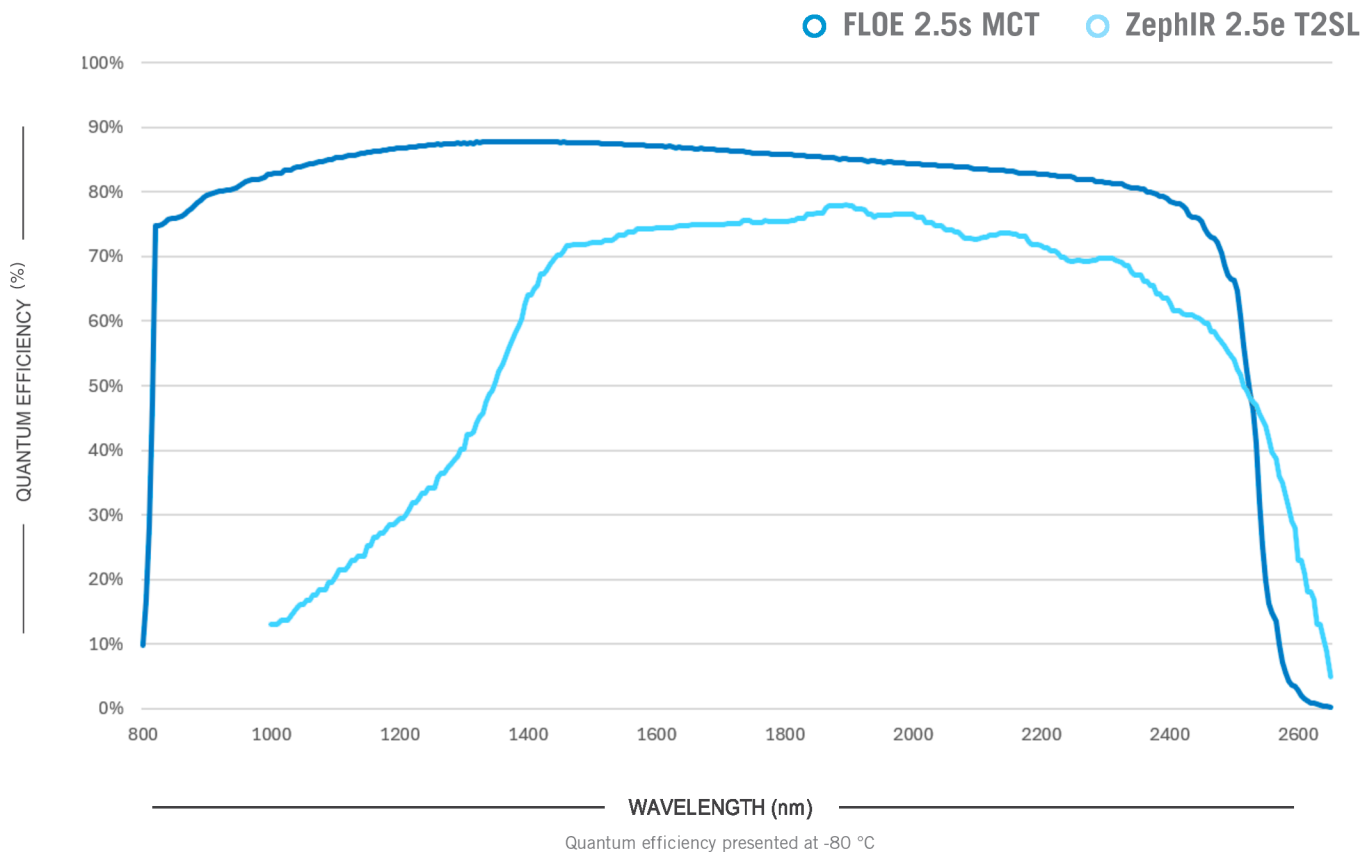
Sensor	MCT (HgCdTe)	
Sensor Format	640 x 512	
Pixel size	15 μm	
Spectral range	800 - 2550 nm	
Peak Quantum Efficiency	88%	
Typical operability	> 99.5%	
Cooling Temperature	-80 °C	
Cooling method	5-TEC + forced air	
Typical Dark Current	1 M ϵ /px/s	
	Low Noise	High Speed
Typical Gain setting (ϵ /ADU)	65	65
Typical readout noise (ϵ)	215	280
Typical Full well capacity (M ϵ)	1	1
Readout modes	ITR, IWR	
Frame Rate	170	235
ROI Frame Rate Integration	Up to 5200	Up to 6900
Integration time range	from 50 μs to full well capacity	
Bit Depth	14 bits	
Image Format	16 bits HDF5, FITS and TIFF	
Computer Interface	USB 3.0 and CameraLink™	
External Control	Trigger IN/OUT	
Software	PHYSpec™ control and analysis software, SDK (C/C++, Python)	
Image Correction	2 or 3 points NUC and pixel correction	
Ambient temperature range	-20 °C to 50 °C	
Power Supply	24 VDC	
Dimensions	84 mm x 84 mm x 160 mm	
Weight	1.9 kg	

OEM version available

MAIN ADVANTAGES OF TEC + AIR SYSTEM

- » Compact
- » Highly reliable
- » Long lifetime
- » No maintenance
- » Low dark current
- » Low readout noise





KEY INDUSTRY APPLICATIONS

- Space & defense
- Industrial Vision
- OEM applications
- Scientific Research

