

Øi Lite

A market-leading, compact thermal and RGB camera gimbal for effective operations with professional aerial platforms where flight time and performance are key elements for success.



The Øi Lite sets new standards for the weight, size, and performance of professional thermal and RGB camera gimbals. It utilizes a built-in video encoder to enable advanced image processing and several industry-standard communication interfaces while keeping the weight and power consumption low.

The Øi Lite offers state-of-the-art, low-light-receptive zoom and a thermal camera enabling operations in even the most challenging conditions. As with our other products, easy integration a key factor and therefore, the camera is easily integrated with your platform through Ethernet and controlled through CAN and UART. The Øi Lite features a built-in image processor that encodes and transmits the image through Ethernet which enables you to transmit the signal and view and store images using standard components and software.

The built-in RGB camera offers up to 10x zoom and recording in FULL HD (1920x1080) which helps to capture and record vital details which maximize the value of your operations. In addition to the RGB camera, the high-performance thermal camera (RGB) is built into the module offering a resolution of 640x512 and framerates up to 60 Hz (see specifications).

Technical specifications

RGB Camera, MP1110M-VC

Sensor	Sensor 1/3-type CMOS
Resolution	Full HD, 1080p (1920 x 1080)
Lens	f = 3.3 mm (wide) - 33 mm (tele), f/1.8 to f/3.4
Zoom ratio	10x
Horizontal FOV	1080p: 59.2° (wide end) to 6.7° (tele end)
Sensitivity	0.5 Lx @ f/1.8, 1/30s
Wide-D Dynamic range	120 dB
Signal to noise ratio	Better than 50dB
Auto exposure modes	Auto, Manual, Aperture priority, Shutter priority
Physical size	
Diameter	92 mm
Height	115 mm
Width	73 mm
Base diameter	74.4 mm

Thermal camera, Flir Boson

Spectrum	Long wave infrared, 7.5µm-13.5µm
Resolution	640 x 512 or 320 x 256
Lens	f=4.9 mm, f/1.1
Digital zoom	Up to 8x
Frame rates	60 Hz, 30 Hz for approved end-users, else 9 Hz.

Electronical interface

Video	10/100/1000 BASE-T Ethernet
Control	CAN UART
Power input	10-60 V, 20W approx.



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