

Lightweight EO/IR Gimbal Camera

A compact three-axis gimbal combining a 640 x 512 thermal detector with an 8 MP visible-light camera. Its listed weight is no more than 133 g, with 4K visible-light recording and Ethernet video output.



Thermal Imaging

Detector	Uncooled focal-plane detector
Native detector resolution	640 x 512
Spectral band	8-14 um
Pixel pitch	12 um
NETD	<=50 mK
Thermal lens	13 mm
Thermal field of view	32.9 x 26.6 degrees (+/-5%)
Optional super-resolution output	1280 x 1024; not native detector resolution

Visible-Light Camera

Sensor	8 MP, 1/2.8-inch CMOS
Lens	3 mm, F2.4
Field of view	95 degrees
Photo	3840 x 2160, JPG
Video	3840 x 2160 at 30 fps, MP4
Encoding	H.264 / H.265

Gimbal and Interfaces

Stabilization	Three-axis
Control interfaces	TTL serial / SBUS / TCP network control

Gimbal and Interfaces (continued)

Video interface	100 Mbps Ethernet
Storage support	MicroSD card up to 512 GB; supplied card not specified

Physical and Electrical

Listed weight	<=133 g; included mounting hardware and cables not specified
Dimensions	50 x 60 x 85 mm
Input voltage	DC 10-18 V; nominal DC 12 V
Steady-state power	<=8 W
Operating temperature	-20 to +55 C
Storage temperature	-40 to +60 C

Configuration notes

Temperature-measurement capability and radiometric file export are not specified for this model.

Aircraft compatibility requires review of the platform, mounting, power, control and data requirements.