

Optroxa GMB 600

The Optroxa GMB 600 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 built-in RGB camera offers up to 18x optical zoom + 10x digital zoom and recording in HD which helps to capture and record vital details, maximizing 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 frame rates up to 60 Hz.



Optics

RGB Camera	Sony IMX 296C IMX296-C 1/2.9" CMOS sensor, color, SONY® Pregius 1440 x 1080 pixel, 1.6MP Trigger input/flash trigger output
Infrared camera	FLIR Boson 320 or FLIR Boson 640
FLIR Boson 320	6.3mm lens HFOV 34°
FLIR Boson 640	14mm lens HFOV 32°

Dimensions

Weight	1.32 lbs / 600 g
Dimension	4.1 x 3.4 x 5.35 inches / 104 x 86 x 136 mm

Image Processing

Features	Electronic stabilization Moving target detection Classification Continuous zoom Fusion Electronic Boresight alignment Custom integrations (through API)
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Computing

Board	Nvidia Jetson Xavier NX
AI Performance	21 TOPS (trillion (10 ¹²) Operations Per Second
GPU	384-core NVIDIA Volta™ GPU with 48 Tensor Cores
CPU	6-core NVIDIA Carmel ARM®v8.2 64-bit CPU 6MB L2 + 4MB L3
Memory/ram	8 GB 128-bit LPDDR4x 59.7GB/s
Power	20W

Electrical

Connector	ODU GK0WAM-P16UB00-000L
Voltage input	12-38V
Max Power consumption	34 W

Communication

Protocols	Ethernet Mavlink 2.0 out (bridged to ethernet) UART CANBUS
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Mechanical

IP Rating	54
Features	Gas filled head Direct drive Continuous rotation on yaw and pitch Absolute encoders Mechanical mounting 4x M4 in Square Ø60mm

Other

Non ITAR
BIS (Export controlled dependable on IR camera)
Pointing accuracy: 0.07 degrees