

## 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 processor 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 gimbal offers a laser camera and a high-performance thermal camera, 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	14mm lens HFOV 32° Resolution: 320x256, 12u
FLIR Boson 640	14mm lens HFOV 32° Resolution: 640x512, 12u

### Dimensions

Weight	1.32 lbs / 600 g
Dimension	4.92 x 3.86 x 3.27 inches / 125 x 98 x 83 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 <sup>12</sup> ) 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

## Mechanical

IP Rating	54
Features	Gas filled head
	Direct drive
	Continuous rotation on yaw and pitch
	Absolute encoders
	Mechanical mounting 4x M4 in Square Ø68mm

## Other

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