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 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)

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

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

Contact our sales representative at sales@uxvtechnologies.com