LUMIRA

EON SPACE LABS

Compact and Light Weight Payload

Dual Sensor Electro-Optical (EO) & Infrared (IR)

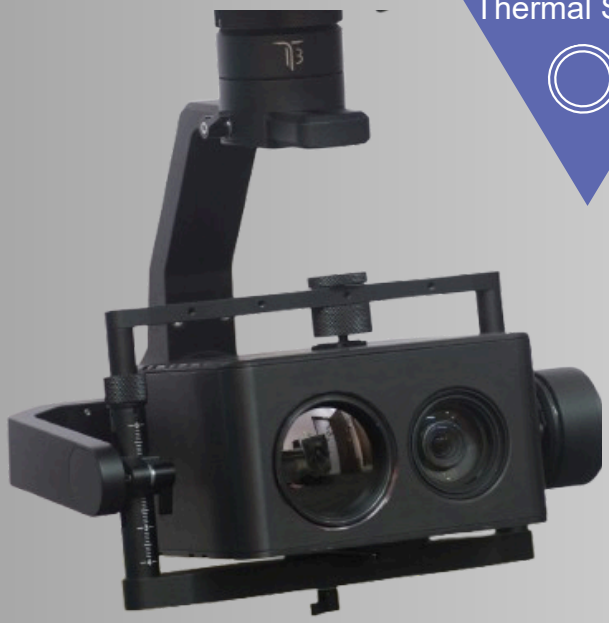
MIL CERTIFIED
MIL- STD 810H
MIL- STD 461E

MADE IN INDIA

40x Optical Zoom (EO) 65mm LWIR Thermal Sensor

The EO-IR camera is expertly designed for drone developers who aim to utilize their onboard processing capabilities by integrating camera vision directly with their primary computer systems, such as the NVIDIA Jetson Single Board Computer (SBC).

Featuring two USB outputs, this camera seamlessly connects to the drone's main computer, effectively reducing overall weight and eliminating the need for additional computing resources.



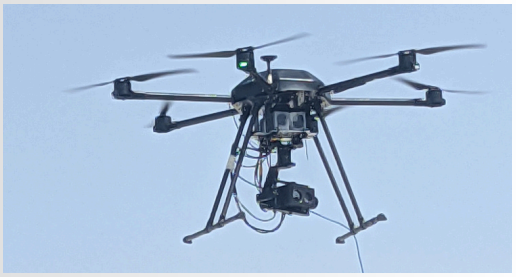
Object	Sensor	D	R	I
	EO	4.2 Kms	0.8 Kms	0.4 Kms
	IR	1.7 Kms	0.6 Kms	0.3 Kms
	EO Class A EO Class B	11.7Kms 28.1 Kms	2.3 Kms 5.6 Kms	1.2 Kms 2.8 Kms
	IR Class A IR Class B	4.8 Kms 11.5 Kms	1.7 Kms 4.2 Kms	0.8 Kms 2 Kms
	EO	1.2 Kms	0.2 Kms	2 Kms
	IR	0.5 Kms	0.2 Kms	0.1 Kms

Contact us at: info@eonspacelabs.com

www.eonspacelabs.com

EON SPACE LABS

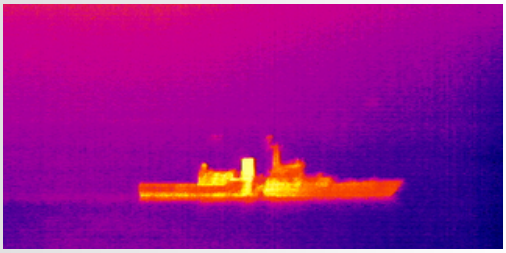
LUMIRA



Specifications

CAMERA

Feature	OptiZoom 40x	IR- NAGA
Array Format	1920 × 1080 (Full HD	640 × 480
Optical Zoom	40x	Nil
Digital Zoom	Up to 32x	3x (via EON software)
Spectral Range (µm)	Visible spectrum	8 – 12 µm



SYSTEM INTEGRATION

Communication	USB 3.1, UART
Network Support	Compatible with NVIDIA Jetson SBC and embedded systems

PAN/TILT PERFORMANCE

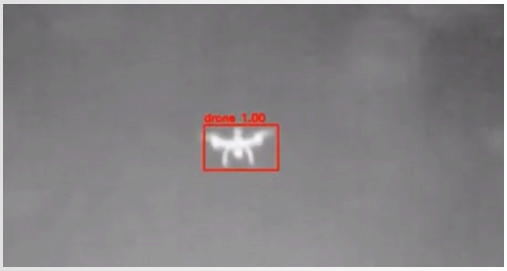
Pan Angle Range	±345°
Tilt Angle Range	±120°
Roll Range	±45°
Pan/Tilt Speed	Up to 180°/s
Programmable Presets	Yes

ENVIRONMENTAL

Operating Temperature	-10°C to +55°C
Storage Temperature	-20°C to +65°C
Ingress Protection	IP5X

GENERAL SPECIFICATIONS

Input Voltage	15–52V (Gimbal), 5V (Camera Modules)
Power Consumption	<10W (cameras), Gimbal up to 3.5A (locked at 14.5V)
Weight	< 2.5 kg (including gimbal)
Size (L×W×H)	237 × 184 × 288 mm (with gimbal)



LUMIRA NEURA

EON SPACE LABS

Compact and Light Weight Payload

Dual Sensor Electro-Optical (EO) & Infrared (IR)

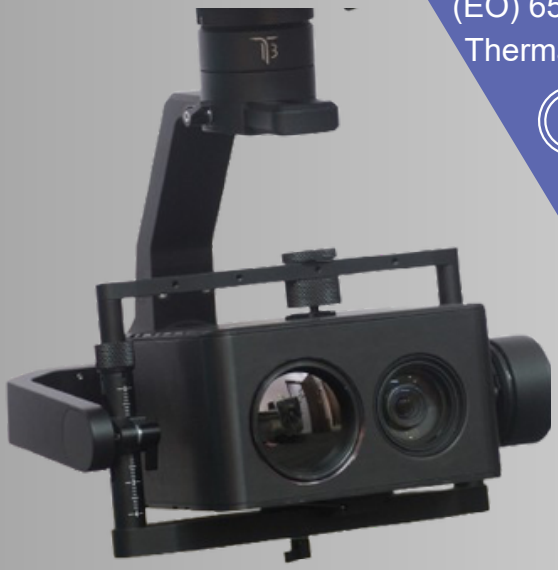
MIL CERTIFIED
MIL- STD 810H
MIL- STD 461E

AI-Powered Tracking & Detection

40x Optical Zoom (EO) 65mm LWIR Thermal Sensor

Introducing the new EON Lumira Neura—a breakthrough model designed with advanced object detection and selective tracking capabilities for superior surveillance and monitoring. Powered by integrated NVIDIA computing, this standalone system simplifies operations while delivering robust performance.

Equipped with micro HDMI display connectivity, and versatile control options via UART, SBUS, and CAN, Lumira Neura ensures seamless integration with standard video telemetry devices for enhanced system control. Although the upgrade introduces a slight increase in weight and cost, it delivers an overall more streamlined and user-friendly experience..



MADE IN INDIA

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	EO	1.2 Kms	0.2 Kms	2 Kms
	IR	0.5 Kms	0.2 Kms	0.1 Kms

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LUMIRA v2 NEURA

Specifications

CAMERA

Feature	OptiZoom 40x	IR- NAGA
Sensor	1/2.8" Sony CMOS	VOx Microbolometer
Zoom	40x (Optical), 32x (Digital)	3x (via EON software)
HFOV	-	6 Deg
Focal Length	4.25 mm – 170 mm (F1.6 – F4.95)	65 mm

SYSTEM INTEGRATION

Video Output	Micro HDMI
Control Interfaces	UART, SBUS, CAN
AI Capability	Onboard NVIDIA compute for AI tracking & detection
Integration	Compatible with standard GCS & telemetry setups

PAN/TILT PERFORMANCE

Pan Angle Range	±345°
Tilt Angle Range	±120°
Roll Range	±45°
Pan/Tilt Speed	Up to 180°/s

ENVIRONMENTAL

Operating Temperature	-10°C to +55°C
Storage Temperature	-20°C to +65°C
Ingress Protection	IP4X

GENERAL SPECIFICATIONS

Input Voltage	15–52V (Gimbal), 5V (Camera Modules)
Power Consumption	<10W (cameras), Gimbal up to 3.5A (locked at 14.5V)
Weight	< 2.8 kg (including gimbal)
Size (L×W×H)	237 × 184 × 288 mm (with gimbal)