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

CERTIFIED

MADE IN INDIA

AI-Powered Tracking & Detection

40x Optical Zoom (EO) 65mm LWIR Thermal Sensor
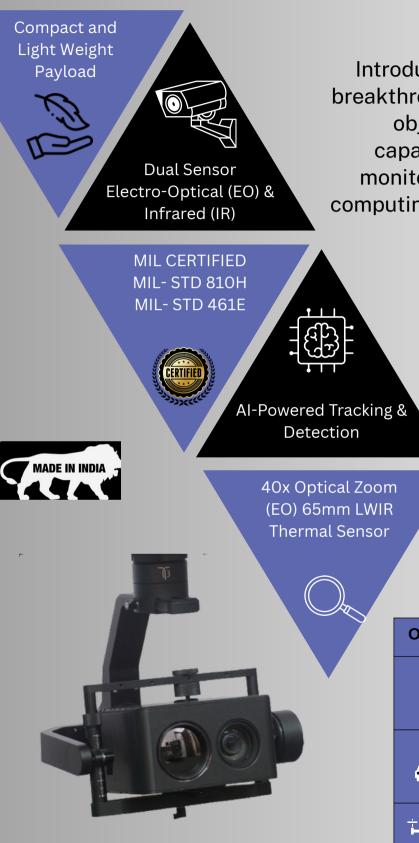
Introducing the new EON Lumira Neura — a breakthrough model designed with advanced object detection and selective tracking capabilities for superior surveillance and monitoring. Powered by integrated NVIDIA computing, this standalone system simplifies operations while delivering robust performance.

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..

Object	Sensor	D	R	I
👥	EO	2 Kms	1 Kms	0.4 Kms
	IR	1Kms	0.3 Kms	0.15 Kms
🚗	EO	8 Kms	2 Kms	1 Kms
	IR	4 Kms	1.1 Kms	0.65 Kms
🛸	EO	2 Kms	0.5 Kms	0.25 Kms
	IR	0.8 Kms	0.2 Kms	0.1 Kms

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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)