



LYNX

MICRO-POWER. MACRO-INSIGHT.



Gremsy is a global leader in designing and manufacturing gimbal systems tailored to dual-use drones. With a commitment to revolutionizing multiple applications, Gremsy has consistently delivered high-quality, innovative solutions that empower professionals across industries.

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Night Vision



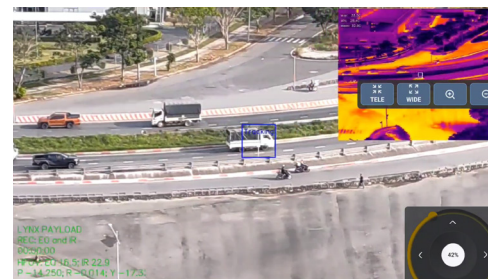
Light Weight
Standard: 235 gr
NDAA: 190 gr



Compact Size
W x D x H
60 x 75 x 92 mm



IP54 Certified



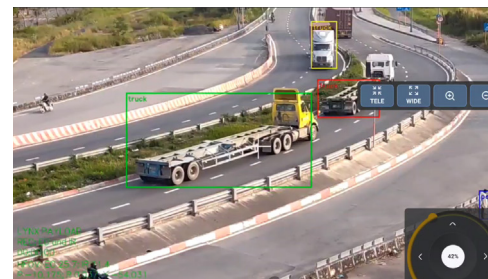
EO OBJECT TRACKING

Effortlessly locks onto and centers your chosen target, keeping it precisely framed even during zoom operations or gimbal adjustments



IR OBJECT TRACKING

Lynx uses thermal imagery to help operators follow heat-emitting targets in low-light or complex environments. It keeps the subject centered and reduces manual adjustments, providing steady support for missions like monitoring, inspection, or search tasks at night.

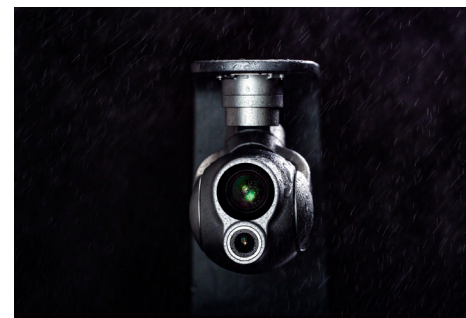


AUTOMATIC OBJECT DETECTION

Instantly identifies and categorizes objects in real-time. From vehicles to personnel, the AI provides crucial data for enhanced awareness and rapid decision-making

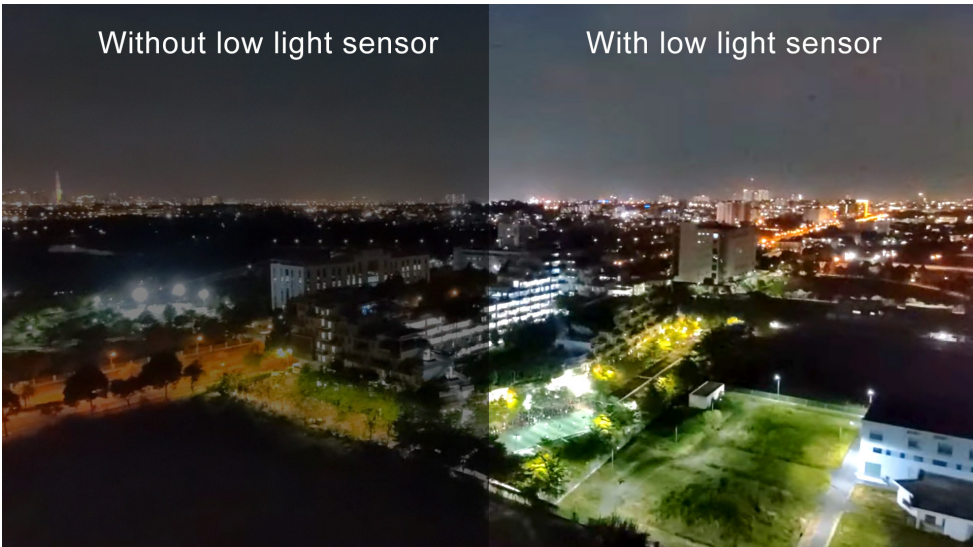
IP54 CERTIFIED - DUST AND WATER RESISTANT

Lynx is built with an IP54 rating, delivering solid protection against dust and water splashes. Its rugged construction ensures the system stays reliable in demanding outdoor environments, keeping missions on track even when conditions get tough.



NIGHT VISION SUPPORT FOR LOW-LIGHT OPERATIONS

Lynx delivers crisp, high-quality footage even in low-light or near-dark conditions, capturing fine details with remarkable clarity. This makes it ideal for a wide range of applications - from security surveillance to operations in dark environments.



LYNX redefines aerial intelligence for critical operations. It integrates ultra-compact design, dual-spectrum EO/IR imaging with up to 4K/60fps HDR, and intelligent AI for autonomous detection and tracking. This unparalleled synergy delivers macro-insight from previously impossible angles, empowering decisive action in the most challenging environments.



TYPICAL APPLICATIONS

PUBLIC SAFETY

DRONE AS FIRST RESPONDER

INSPECTION SURVEILLANCE

LYNX MAINBOARD SOLUTION

Example diagram with Cube Pilot and Herelink integration



- MAINBOARD KEY FEATURES**
- PIP Streaming over HDMI/Ethernet.
 - Control Camera and Gimbal via MAVLink.
 - AI Object Detection and Tracking.
 - Equipped with built-in internal storage (memory) and external SD card support for payload data.

FIND THE RIGHT LYNX FOR EVERY MISSION

LYNX is offered in two distinct versions, engineered to meet diverse operational demands and regulatory compliance. Each variant provides core capabilities with specific optimizations for performance or adherence to strict U.S. defense authorization laws. Choose the configuration that best aligns with your mission requirements.



LYNX NDAA

- 1/2.3-type CMOS Sensor
- 10x Digital Zoom
- 4K @30 FPS video

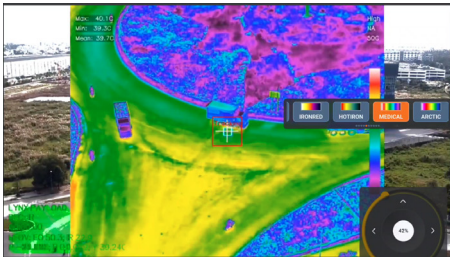
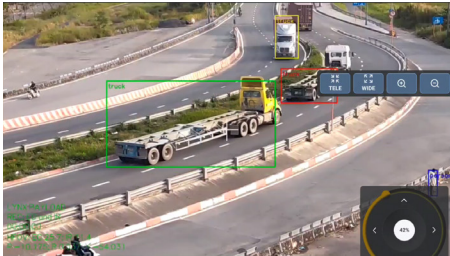
Payload Weight 190 Grams



LYNX STANDARD

- 1/2.3-type CMOS Sensor
- 10x Digital Zoom
- 4K @30 FPS video

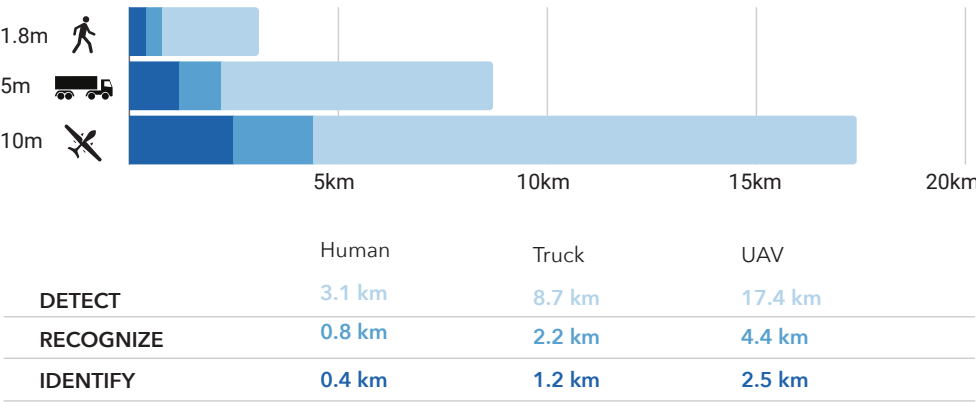
Payload Weight 235 Grams



DRI PERFORMANCE

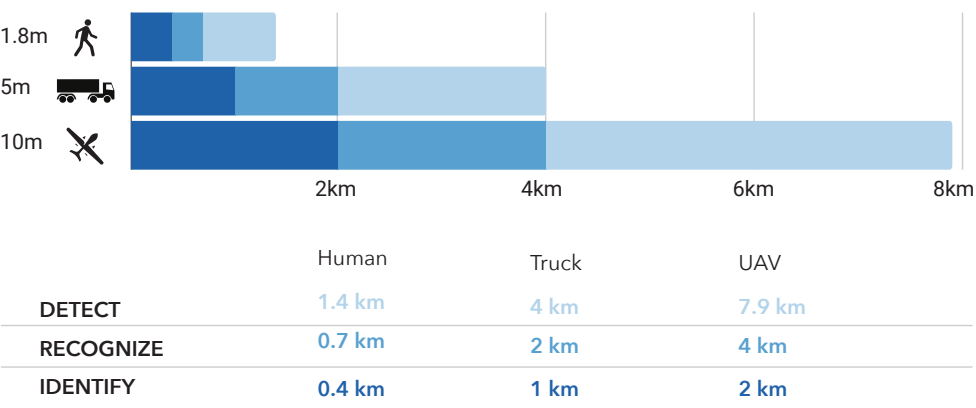
EO SENSOR

- Detect:** An object is present (2 pixels on target)
- Recognize:** The type of object can be discerned (8 pixels on target)
- Identify:** A specific object can be discerned (14 pixels on target)



IR SENSOR

- Detect:** An object is present (2 pixels on target)
- Recognize:** The type of object can be discerned (4 pixels on target)
- Identify:** A specific object can be discerned (8 pixels on target)



All values are calculated based on the Johnson Criteria using a simplified analysis in ideal condition
Actual range performance may vary

SPECIFICATION

General Information

Specification	LYNX	LYNX NDAA
Payload Weight (Full System)	320 – 365 g	320 – 365 g
Payload Weight	235 g	190 g
Dimensions (DxWxH)	80 x 60 x 96 mm	80 x 60 x 96 mm
Damping System	3-Ball Rubber	3-Ball Rubber
IP Rating	IP54	IP54
Flight Speed	Up to 80 km/h	Up to 80 km/h
Input Voltage (Mainboard)	15 – 52 VDC	15 – 52 VDC
Payload Power Input	12 VDC @ 5A	12 VDC @ 5A
Operating Current	Static: 15W (12V @ 1.25A)	Static: 13W (12V @ 1.1A)
	Dynamic: 18W (12V @ 1.5A)	Dynamic: 15W (12V @ 1.25A)
	Locked Motor (Peak): 40W (12V @ 3.3A)	Locked Motor (Peak): 40W (12V @ 3.3A)
Operating Temperature	-20°C ~ 50°C	-20°C ~ 50°C
Storage Temperature	-20°C ~ 60°C	-20°C ~ 60°C

Platform Compatibility

Category	Supported
Drone Platforms	Pixhawk / CubePilot / Skynode
Autopilot Platforms	ArduPilot / PX4
Controllers & Ground Stations	Remote Controller - Ground Station with: + QGroundControl App + Gremsy Payload Plus App
SDK Support	Gremsy Payload SDK

EO Camera Specifications

Specification	LYNX / LYNX NDAA
Sensor	1/2.3" CMOS – 12.3 MP
Resolution	4056 x 3040
Pixel Size	1.55 µm × 1.55 µm
Field of View (HFOV/VFOV/DFOV)	60.4° / 32° / 72.4°
Aperture	f/2.8
Focal Length (EFL)	5.4 mm
Digital Zoom	1x to 10x
HDR	DOL-HDR @ 30 fps
Distortion	<3%

IR Camera Specifications

Specification	LYNX	LYNX NDAA (Boson 640R)
Sensor Type	Vanadium Oxide	VOx Microbolometer (FLIR)
Array Format	640 × 512	640 × 512
Frame Rate	25Hz / 30Hz	60Hz
Pixel Size	12 µm	12 µm
Spectral Range	8 – 14 µm	8 – 14 µm
Scene Temperature Range	To 150°C (high gain), 500°C (low)	To 150°C (high gain), 500°C (low)
Lens	19 mm EFL (Fixed Athermal)	14 mm EFL (Fixed Focus)
HFOV	~32°	32°
Digital Zoom	1x to 8x	1x to 8x
Thermal Sensitivity (NETD)	≤ 50 mK	≤ 50 mK