

FIELD-READY

VULCAN SX + LYNX NDAA

See what the eye can't.

Thermal imaging for infrastructure inspection — electrical, oil & gas, solar, and industrial assets.

- **Thermal and visual in a single 0.43 kg payload.**

The Gremsy Lynx NDAA pairs a FLIR Boson 640 thermal core with a 4K EO camera — two sensors, one lightweight payload. Inspect thermally. Confirm visually. No second flight, no second system.



- **The thermal sensor field operators trust.**

The FLIR Boson 640 delivers 640×512 thermal resolution at 60Hz with NETD below 50mK — enough sensitivity to find anomalies that lower-grade sensors miss. Proven in energy, utility, and industrial inspection programs.

- **Geotagged anomaly data, ready when you land.**

Every thermal capture pairs with Vulcan SX's RTK-capable GNSS — each anomaly carries a precise location from the moment of capture, not assigned in post. Your inspection report starts

building itself in flight.

- **Steady acquisition in real field conditions.**

The Vulcan SX tricopter holds its line in wind that makes quadcopters drift — so your thermal sensor sees what it needs to, not what the wind allows.



Blue/Green UAS
Pending Cert

Made in Montana
148 Village Center Ln, Bozeman, MT

Schedule a demo: visionaerial.com/demo-vulcan
(406) 333-1795 • info@visionaerial.com • visionaerial.com

[47 min]

Continuous thermal inspection pass on a single charge.

Vulcan SX

Flight Time / Endurance	65 min no payload, 47 min with LYNX NDAA flying hover/cruise optimized mission profile
Extended Flight Kit	2 min smart battery swap, continuous operations
Operating Temp	-15°F to 115°F
Wind Resistance	14 m/s (32 mph)
Weather Rating	IP55
Max Payload	3.0 kg
GNSS	RTK-capable, dual-band L1/L5, built in
Collision Avoidance	Forward radar, active in flight
Terrain Following	Active
EMI/RFI	Armored design
Mission Software	Flight Deck — no subscription

Gremsy LYNX NDAA

Payload / Camera Weight	0.43 kg / 190 g
Thermal Sensor	FLIR Boson 640
Thermal Resolution	640 × 512
Frame Rate	60 Hz
NETD	<50 mK
Thermal FOV	32° HFOV
EO Camera	4K, 10× optical zoom
AI Detection (EO only)	5 fps, Default Human/Car
Gimbal	Gremsy, fully integrated
Photogrammetry Software (optional)	PIX4Dmatic

Workflow

01 Plan



Plan your inspection route using Vision Aerial Flight Deck. Set altitude and coverage for the equipment or infrastructure you're inspecting.

02 Fly



Fly Vulcan SX with the Gremsy Lynx NDAA — FLIR Boson 640 thermal + 4K EO camera + AI detection (optional). RTK GNSS and terrain following run automatically.

03 Detect



Thermal anomalies appear in real time on the GCS. Confirm findings visually with the integrated 4K EO camera — no second flight required.

04 Report



Download inspection results with GPS coordinates and thermal imagery already compiled. Your anomaly report is ready when you land.

Designed, manufactured, assembled, tested, and serviced in the USA.

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Rev A.1