

eBee

VISION


Low acoustic signature


Low specular reflection

Real-time situational awareness UAS

Get HD live video insights into rapidly-changing environments, even in GNSS-denied conditions.

Ensure the success of your Intelligence, Surveillance, and Reconnaissance (ISR) missions.

eBee VISION can be easily carried, hand-launched and operated by a single pilot.

Light weight
4 lbs / 1.8 kg

Deployment
3 min

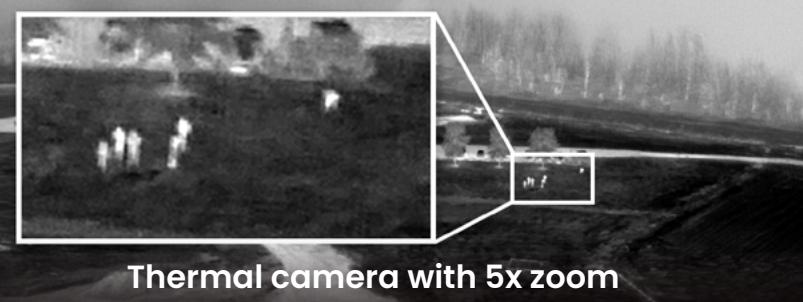
Flight time
90 min

Wireless range
Up to 12 mi / 20 km

Cyber-secure
AES-256 encryption



RGB camera with 32x zoom



Thermal camera with 5x zoom

Detect, track and geo-locate

Simultaneously capture, view and record HD video and imagery.



Flight plan
Define a flight plan and seamlessly adapt it during the flight.



Observation mode
Maintain observation from a safe distance.



Scouting mode
Explore and track moving targets.



Cursor-on-Target
Locate targets using image coordinates.



Manual flight
Control the drone for your specific flight maneuvers.



Mapping mode
Create circular or grid mapping patterns.



Drone specifications

Wingspan	46.4 in / 118 cm
Fuselage material	Expanded Polypropylene (EPP, 30 g/L)
Frame material	Carbon fiber & reinforced injected polymer
Weight	4 lbs / 1.8 kg
Transport case	Backpack and hardcase

Flight performance

Cruise speed	28 mph to 50 mph (45 km/h or 12.5 m/s to 80 km/h or 22.5 m/s)
Max speed	50 mph (80 km/h or 22.5 m/s)
Max wind resistance	38 mph (61 km/h or 17 m/s)
Max flight time	90 minutes
Service temperature	14°F, 120°F / -10°C, +49°C



Validated as
cyber-secure



Radio data link
encryption AES-256



Drone log file
suppression



Encrypted
SD card

eBee VISION is NDAA-compliant

Remote controller specifications

Screen	7" sunlight viewable screen with rain mode and glove touch
Video	Continuous HD video feed from RGB and thermal sensors
Battery	1h30 hours battery life with warm-swap capability

RGB sensor specifications

Sensor	2 sensors 1/2.4"
Resolution	5344 x 4016
Focal length	4mm / 16mm
Field of view (H x V)	72° x 45° / 21° x 12°
ISO range	100-3200
Zoom	16x optical / 2x digital
Video resolution	1920 x 1080 record / 1280 x 720 stream
Video format	MPEG-TS (H.264) + embedded STANAG 4609

Thermal sensor specifications

Sensor	FLIR BOSON
Resolution	640 x 512
Focal length	18mm
Field of view (H x V)	24° x 19°
ISO range	-
Zoom	5x digital
Video resolution	1280 x 720 record and stream
Video format	MPEG-TS (H.264) + embedded STANAG 4609

eBee VISION system includes

