



# Scorpion™

## Short-Range Multicopter UAS

### **Agile platform for urban and stationary ISR missions.**

Scorpion is an electric vertical take-off and landing (eVTOL) short-range multicopter sUAS that provides real-time situational awareness via high-resolution video. With intelligent cruise speed control between 0 and 29 knots and the ability to continually hover, perch and stare, operators can rely on Scorpion to

perform missions in dense urban environments with ease. Onboard artificial intelligence performs object detection, classification, and tracking of incoming video, reducing the cognitive load on the operators. GNSS-denied navigation is also supported.

# Flight Performance

Max. Flight Time	45 minutes	Max. Wind Tolerance (ground)	19 kn / 22 mph
Speed Range	0-29 kn / 0-33 mph	Max. Wind Tolerance (air)	23 kn / 26 mph
IP Rating	IP54	Max. Take-Off Altitude (MSL)	3,000 m / 9,843 ft
Operating Temperature	-20 °C to +45 °C / -4 °F to 113 °F	Max. Operating Altitude (MSL)	4,500 m / 14,764 ft

# Technical Specifications



**Take-off Weight**  
7 kg / 15.4 lbs



**AI/Mission Processor**  
NVIDIA Jetson ORIN NX 16 GB



**Encrypted IP Mesh**  
AES-256



**Wingspan**  
1.37 m / 4.5 ft



**Ground Control Station**  
Auterion Skynav or Toughbook



**Frequency**  
2.2-2.5 GHz (encrypted)\*



**Length**  
1.42 m / 4.6 ft



**Mission Control Software**  
QBase Tactical



**C2 & Video Range**  
40 km with Short Range Antenna (SRA)\*\*

\*Dual S & C-Band options available  
\*\*80 km Mid-Range Antenna (MRA) option available

# Sensors



**NextVision Raptor**



**Trillium HD40-LV**

EO Zoom	40x optical 2x digital	10x optical 2x digital
EO Resolution	1280 x 720 px	1280 x 720 px
IR Zoom	8x digital	4x digital
IR Resolution	1280 x 720 px	640 x 480 px

**Additional Capabilities** GeoLock. Object Tracking. KLV-Stream. 360° Continuous Rotation. Image Stabilization. Optional Laser Illuminator.

# 2-in-1 System

The alternative configuration of the Vector 2-in-1 system, Scorpion uses the same main fuselage, avionics hardware, ground controller, data link, sensors, and AI capabilities as Vector. The operator can easily swap from the fixed-wing configuration to multicopter in a matter of seconds by removing the wings and tail, and attaching front and tail booms.

