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

#### **Technical Specifications**



Take-off Weight 15.4 lbs / 7 kg



**Wingspan** 4.5 ft / 1.37 m



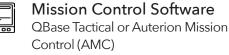
\*Dual S & C-Band options available

Sensors





Ground Control Station Auterion Skynav or Toughbook





Encrypted IP Mesh AES-256

Frequency 2.2-2.5 GHz (encrypted)\*

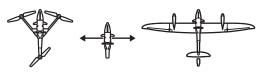


C2 & Video Range
40 km with Short Range Antenna (SRA)

	NextVision Raptor	Trillium HD40-LV
EO Zoom	40x optical 2x digital	10x optical 2x digital
EO Resolution	1280 х 720 рх	1280 х 720 рх
IR Zoom	8x digital	4x digital
IR Resolution	1280 х 720 рх	640 х 480 рх
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.





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