

QUANTUM SYSTEMS



Vector™

Mid-Range/
Mid-Endurance
eVTOL UAS

Vector is an eVTOL (electric vertical take-off and landing) fixed-wing sUAS that delivers real-time, high-resolution video for intelligence, surveillance and reconnaissance missions. Designed with operational efficiency and flexibility in mind, Vector is a rucksack portable solution that can be operational in three minutes and take-off and land autonomously in confined spaces without the need for additional tools or equipment. Onboard artificial intelligence supports and enables GNSS-denied navigation, as well as object detection, classification, and tracking to reduce the cognitive load of the operator.

Key Features



FLIGHT ENDURANCE
180 minutes



AI PROCESSOR
NVIDIA Jetson Orin



COMMAND & CONTROL RANGE
18.6 mi (30 km)
w/ laptop



DATA ENCRYPTION
AES-256

Technical Specifications

Wingspan	9.2 ft (2.8 m)	Max. Launch Altitude	9,843 ft (3,000 m) MSL
Speed	29 to 39 kn (15 m/s to 20 m/s)	Max. Operating Altitude	14,764 ft (4,500 m) MSL
Take-off Weight	18.8 lbs (8.5kg)	Wind Tolerance (ground)	19.4 kn (10 m/s)
Operating Temperature	-4 °F to 113 °F (-20 °C to 45 °C)	Wind Tolerance (cruise)	23 kn (12 m/s)
GCS	Skynav or Toughbook	Mission Control Software	QBase Tactical or Auterion Mission Control (AMC)

Payloads



RAPTOR

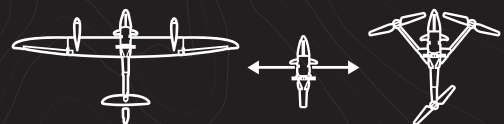


HD40-LV

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

2-in-1 System

Operators can easily swap from the Vector configuration to the Scorpion multicopter, depending on their mission needs. The main fuselage, ground controller, data link, sensors and AI capabilities remain while the wings and tail are exchanged for a boom and props.



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Scorpion™

eVTOL multicopter sUAS

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, 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 operator. GNSS-denied navigation is also supported.

Key Features



FLIGHT ENDURANCE
35 minutes



AI PROCESSOR
NVIDIA Jetson Orin



COMMAND & CONTROL RANGE
18.6 mi (30 km)
w/ laptop



DATA ENCRYPTION
AES-256

Technical Specifications

Wingspan	4.5 ft (1.37 m)	Wind Tolerance (ground)	19.4 kn (10 m/s)
Speed	0 to 29 kn (0 m/s to 15 m/s)	Wind Tolerance (cruise)	23 kn (12 m/s)
Take-off Weight	15.4 lbs (7 kg)	Mission Control Software	QBase Tactical or Auterion Mission Control (AMC)
Operating Temperature	-4 °F to 113 °F (-20 °C to 45 °C)	GCS	Skynav or Toughbook

Payloads



RAPTOR



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

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 swap from fixed-wing to multicopter by removing the wings and tail, and attaching the boom and props.

