

PACKAGE

1 Long Range eVTOL Vector with fiberreinforced airframe

2 Changeable Payloads

3 Mesh IP Encrypted Data Link

The data link hardware consists of a robust handheld unit on the ground and an OEM module onboard the UAV. Sector antennas can boost the range to 25+ km (15.5+ mi). No tracking antenna or moving parts are necessary. This setup enables an 128/256 bit AES encrypted 10+ Mbit data stream and up to 25+ km (15.5+ mi) (sector antennas) video and command & control range.

The hardware is optimized for tactical applications and comes in ruggedized, IP 67 rated casings. It uses sophisticated MIMO mesh network technology. Data link control is fully integrated into QBBase 3D including link and power management.

4 Military Grade rugged GCS User Interface

- Ground control tablet platform (incl. two front side joysticks and left- and right-side toggle switches)
- 7" Active Matrix (TFT) colour LCD 1280x800 (WXGA) LCD with sun-light-viewable glove-enabled capacitive touchscreen

5 Mission Software QBBase 3D

Mission planning software with advanced UAS control overlay from Quantum-Systems (efficient flight paths, recording video and aircraft data)

6 Battery Pack + Battery Charger

7 Lightweight Box with Backpack Option

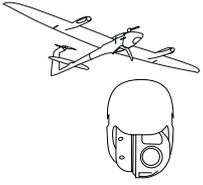
8 Warranty (1 year)

9 Technical Support

TECHNICAL DATA

Max. Take-off Weight	<6.5 kg (<13.2 lbs)
Max. Flight Time	120 minutes
Command and Control Range	15+ km (9.3 mi) optional 25+ km (15.5+ mi)
Payload (with compartment)	max. 550 g (1.2 lb)
Optimal Cruise Speed	15 m/s - 20 m/s (29 - 39 kn)
Wind Resistance (ground)	10 m/s (19.4 kn)
Wind Resistance (cruise)	12 m/s (23 kn)
Operating Temperature Range	-19°C to 44°C (66.2°F to 111.1°F)
Wingspan	2.80 m (9.2 ft)
Transport Case Dimension	800 mm x 540 mm x 345 mm (31.5" x 21.3" x 13.6")
Transport Case Weight	
Cover incl. foam inlay	9,2 kg / 20.3 lb
Case only	6,7 kg / 14.8 lb
Suspension system	2,5 kg / 5.5 lb

CONFIGURATION



Vector Package HD40-LV

- EO:**
- Zoom: 10x optical, 2x digital
 - Resolution: 1280 x 720
- IR:**
- Zoom: 4x digital
 - 640 x 480

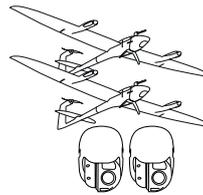
- Data rate: 5 Mb/s (H264)
- Power consumption: 15 W
- Weight: 550 g (1.2 lb)
- MISC: KLV-Stream, GeoLock, image stabilization



Vector Package NightHawk2

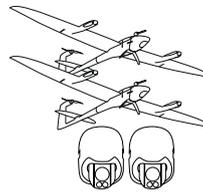
- EO:**
- Zoom: 20x optical, 2x digital
 - Resolution: 1280 x 720
- IR:**
- Zoom: 4x digital
 - 640 x 480

- Data rate: 5 Mb/s (H264)
- Power consumption: 7 W
- Weight: 320 g (0.7 lb)
- MISC: KLV-Stream, GeoLock, image stabilization, object tracking



Vector System Package HD40-LV

(2 complete flying units with HD40 LV)



Vector System Package NightHawk2

(2 complete flying units with NightHawk2)

OPTIONS

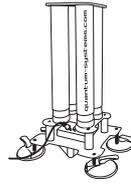


ADS-B ModeS out Transponder

ADS-B ModeS out Transponder

Subsequent upgrade

ACCESSORIES



Datalink - Streamcaster 4400

- Stationary modem for 25+ km range between QBase tablet & the UAV
- Incl. ethernet cable for the QBase tablet connection
- Incl. power cable



Niceframe BV2

(Backpack Carrier System)

SPARE PARTS



Airspeedsensor



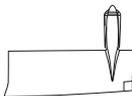
Rear Fuselage



Elevator



Outside Wing (left or right)



Inside Wing (left or right)



Propeller (2 pcs.)

(front left, front right or rear)

