



— ALL-WEATHER —
FALCON II Nyx

The Falcon II Nyx UAS is a RF and magnetically shielded versatile, all-weather, high-wind multi-copter designed for exceptional performance. The Nyx can fly missions with real-time communications or autonomously in complete darkness and radio silence. All communications are encrypted, and the seven-system GNSS hardware is protected from spoofing. The Nyx also fuses a redundant AHRS with a dedicated Inertial Navigation Unit for unparalleled reliability in GNSS-denied and highly contested environments. Payload agnostic, the Nyx can carry a wide range of sensors and avionics. Full BVLOS capabilities and a flight time over 60 minutes allow shrewd tactical vectors for both inbound and outbound incursion.

In addition to its shielding and ability to fly in GPS contested areas - the Nyx boast impressive performance features such as a flight time exceeding 60 minutes with a camera payload, a top speed of 80MPH, 60 knot wind resistance, the capacity to carry a 20lb payload for 20 minutes, and a line-of-sight range of over 20 km. With readiness paramount, the Falcon II Nyx stands ready for operation when needed most.



FALCON II Nyx

ALL-WEATHER, HIGH-WIND MULTI-COPTER DESIGNED FOR EXCEPTIONAL PERFORMANCE

WAVE AEROSPACE

/ BEST IN CLASS

ENDURANCE
60+ MINUTES

ALL-WEATHER
IP66
WEATHERPROOF

WIND RESISTANCE
60 KNOTS
(69 MPH, 31M/S)

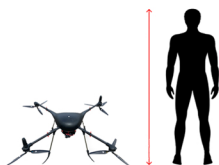
MAXIMUM PAYLOAD CAPACITY
9 KG (20 LBS)

MAXIMUM AIRSPEED
80 KNOTS
(92MPH, 41 M/S)

LINK RANGE
30 KM (18.6 MILES)

/ SPECIFICATIONS

DIMENSIONS	1770 x 1770 x 415 mm (69.5 x 69.5 x 16.5 inches)
DIMENSIONS UNFOLDED	620 x 620 x 415 mm (24.5 x 24.5 x 16.5 inches)
MAX RECOMMENDED TAKEOFF WEIGHT	20 kg (44 lbs)
AIRCRAFT WEIGHT W/ 1X 1443 WH BATTERY	10.4 kg (22.9 lbs)
PAYLOAD CAPACITY W/ 1X 1443 WH BATTERY	9 kg (20 lbs)
MAX ANGULAR VELOCITY TILT	300°/s, Yaw: 200°/s
OPERATING TEMPERATURE RANGE	-17°C to 50°C (0°F - 122°F)
MAX ALTITUDE	5,000m (16,400 ft)
POWER SUPPLY	30,000 mAh, 1443 Wh, 48 V Solid State Lithium Polymer 13S1P
PROPELLERS	3-blade, 470 mm (18.5 in) prebalanced Carbon Fiber
ENCRYPTION	AES 256 Hardware Accelerated Encryption
GPS	Versatile GNSS receiver with 1.5m horizontal accuracy



The Falcon II Nyx is a versatile, all-weather, high-wind multi-copter designed for exceptional performance, ready to fly when you need it the most.

/ MISSION PROFILES

- » ISR, RIF, Search and Rescue
- » Low-level incursion
- » Electronic Sensing and Scouting
- » Command, Control, Communication Support
- » Long duration camera platform
- » Marine operations
- » Embedded, all-weather reconnaissance
- » BVLOS operations (where allowed)

/ FLIGHT IN GPS DENIED AIRSPACE

- » Shielded, reduced radar cross section
- » Fully autonomous, capable of “dark” missions from takeoff to landing without communication
- » Seven-system GNSS protected against spoofing
- » On-board Inertial Navigation Unit
- » RF and EMI are shielded to limit the aircraft’s electromagnetic signature and mitigate the impact of EW attack.

/ KEY FEATURES

- » Set up and operational in less than 5 mins
- » Autonomous Take off and Landing
- » Low Level Terrain tracking for smooth landing in all conditions
- » FAA approved lighting for night operation
- » Space-Efficient Carrying Case Size

/ FALCON II Nyx PAYLOAD VERSATILITY



Additional camera/payload options available at customer request.