

FALCON II Nyx

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



Named for the Greek goddess of night, the Nyx is WaveAerospace's most advanced Group 1 sUAS. Purpose-built on our proven Falcon platform, the Falcon II Nyx is available now. Designed to fly in any weather up to Force 10 ocean state conditions, day or night, the Nyx can outperform any rotorcraft its scale in the world. The Nyx can even operate with full autonomy in zero visibility thanks to its integrated phased radar altimeter and inertial navigation system.

/ ADVANCED FEATURES

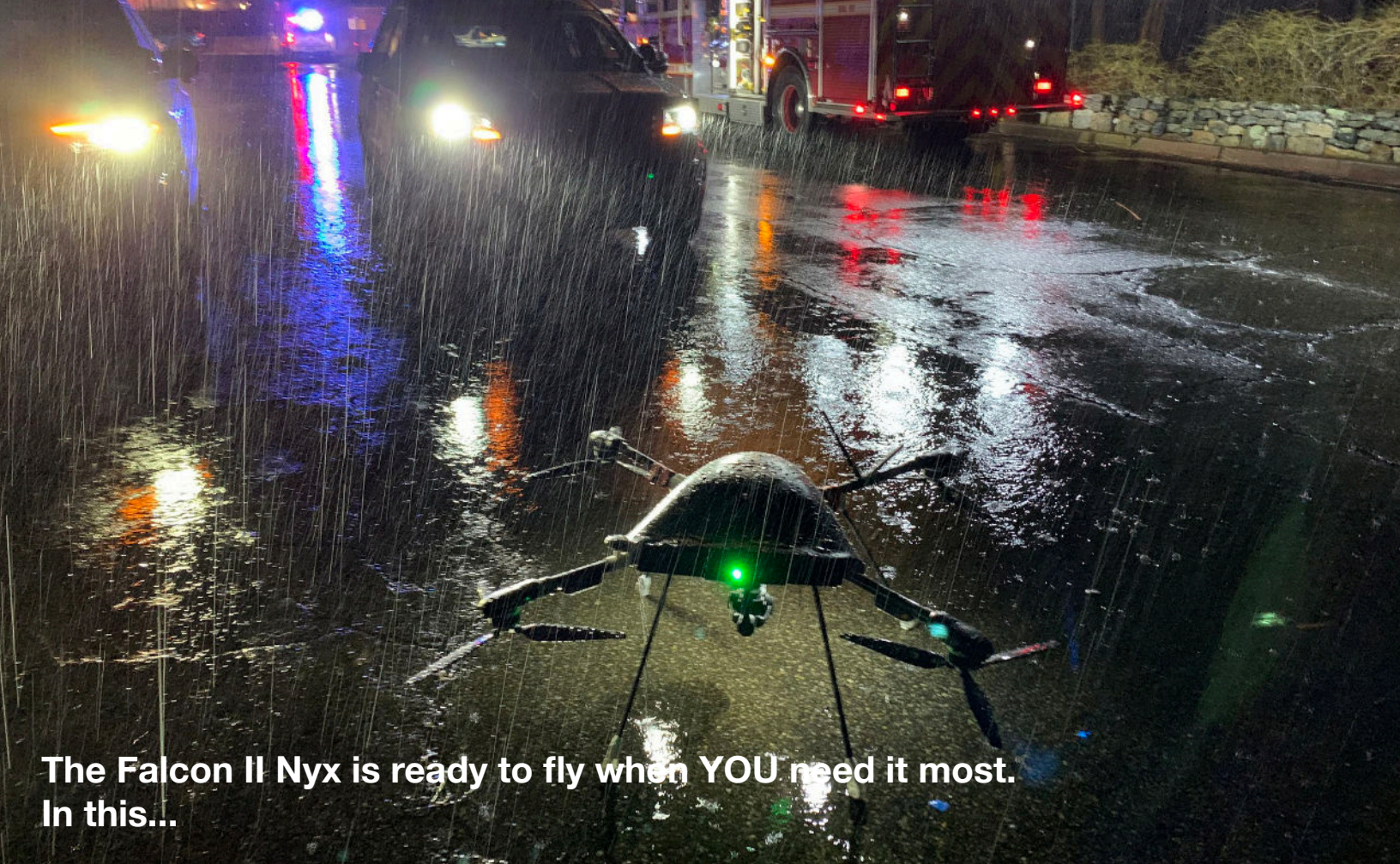
- » RF and EMI shielded against EW defenses.
- » Strategic use of Kevlar resulting in masked Doppler signature.
- » Phased radar altimetry for terminal guidance on pitching LZs.
- » Inertial navigation for autonomous operations in zero visibility.
- » Redundant magnetic and non-magnetic heading calculation.
- » Multiband amplified GNSS with anti-spoofing.



All Falcon II models may be outfitted with EO/IR payloads.

/ AIRCRAFT SPECIFICATIONS

DIMENSIONS	1270mm (50in) span diagonal - engine to engine
RECOMMENDED MAXIMUM TAKEOFF WEIGHT (MTOW)	20 kg (44 lbs)
AIRCRAFT WEIGHT WITH BATTERY	10.4 kg (22.9 lbs)
MAX ANGULAR VELOCITY	300°/s roll & pitch, 200°/s yaw
OPERATING TEMPERATURE RANGE	-17°C to 50°C (0°F - 122°F)
MAX WINDSPEED FOR AUTONOMOUS OPERATIONS	30.8 m/s (60 knots) continuous
MAX OPERATIONAL ALTITUDE (WITH HIGH-ALTITUDE PROPS)	5,000m (16,400 ft)
POWER SUPPLY	48-volt (nominal) Solid State Lithium battery providing up to 1-hour flight time
PROPELLERS	3-blade, 470 mm (18.5 in) dynamically balanced Carbon Fiber or Kevlar
ENCRYPTION	AES-256 control, telemetry, and media encryption
GPS	Multi-constellation anti-spoofing GNSS receiver with redundant antennas



The Falcon II Nyx is ready to fly when YOU need it most. In this...

or this.



/ BEST IN CLASS MULTIROTOR sUAS

ENDURANCE
60+ MINUTES

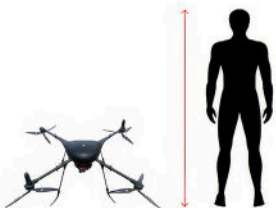
ALL-WEATHER
IP66
WEATHERPROOF

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

MAXIMUM PAYLOAD CAPACITY
9 KG (20 LBS)

MAXIMUM AIRSPEED
70 KNOTS
(80 MPH, 36 M/S)

LINK RANGE
20 KM (12.5 MILES)



The Falcon II Nyx is a versatile, all-weather, high-wind multicopter designed for exceptional performance, ready to fly when you need it most—when nothing else can.



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