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 operatate with full autonomy in zero visability thanks to its integrated phased radar altimiter 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 guidence 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

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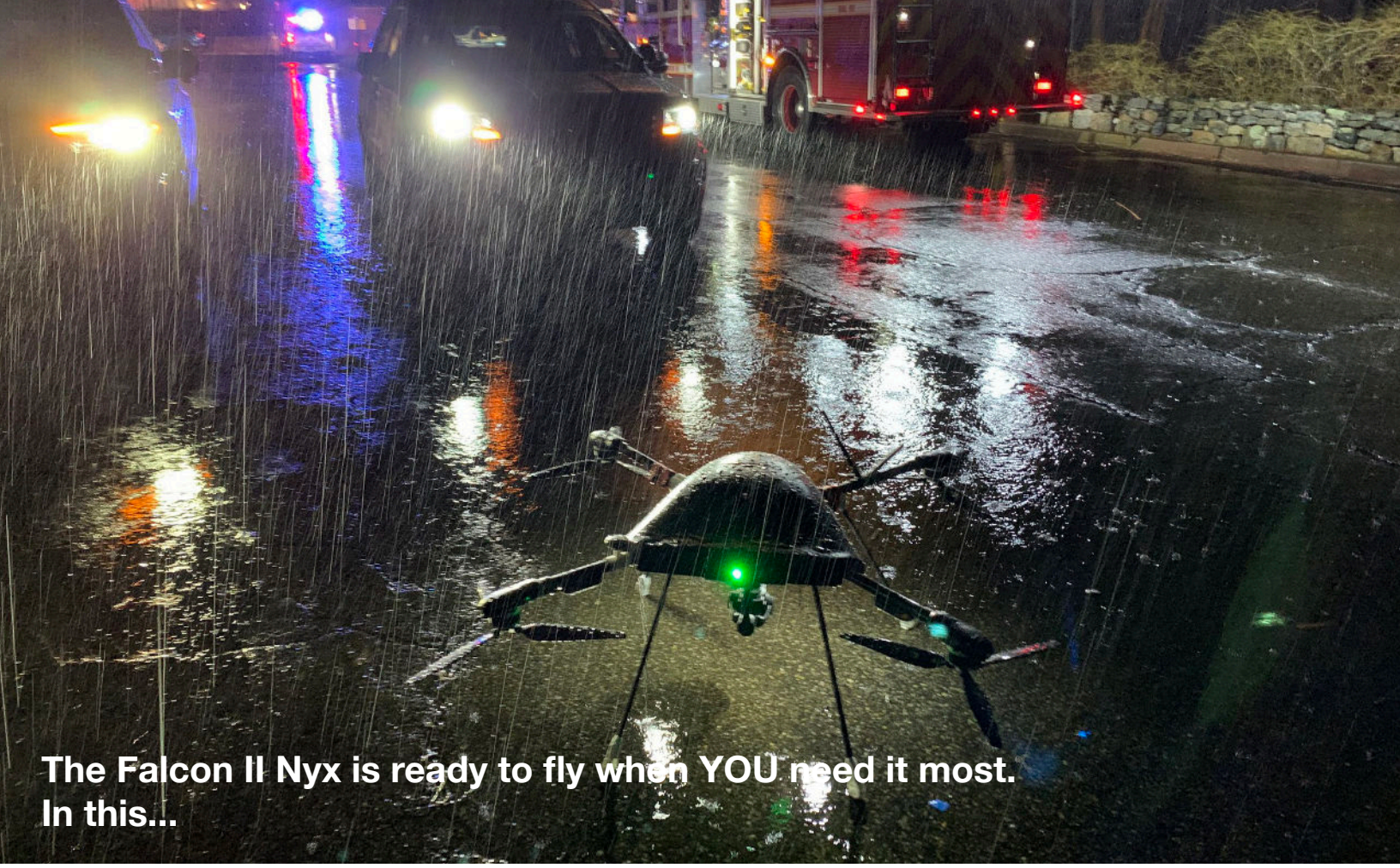

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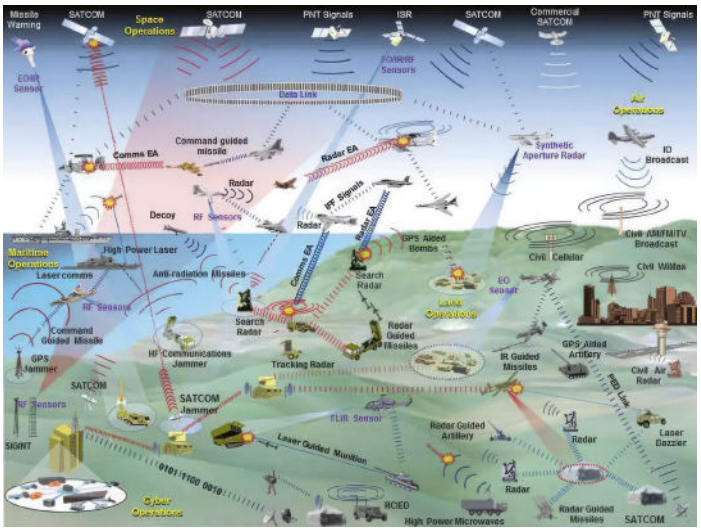
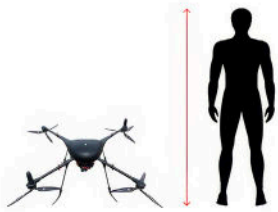


/ BEST IN CLASS MULTIROTOR sUAS

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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