



ALL-WEATHER ***FALCON II LE***

The all-weather Falcon II LE is purpose-built for Emergency Management and Law Enforcement. No other Part-107 UAS in its class can operate in conditions the Falcon can— strong winds, rain, or snow. Don't let the weather dictate your operations. The Falcon is ready to fly when you need it most, and WaveAerospace's unmatched US support & maintenance means that the aircraft is always safe and airworthy.

FAA-approved night lighting and optional police strobes indicate the aircraft is under official control, day or night. Mission ready, easy to fly, and fast enough to read the license plate of a fleeing car on the highway! With over 60 minutes flight time on a single battery with its military-grade EO/IR stabilized camera payload, like you, the Falcon is built to serve.

FALCON II LE

TRUE ALL-WEATHER, HIGH WIND VTOL



DISTINCTIONS

» ENDURANCE



» ALL-WEATHER INGRESS PROTECTION



» WIND RESISTANCE



» USABLE PAYLOAD CAPACITY



» MAXIMUM AIRSPEED



» LINK RANGE



SPECIFICATIONS

DIMENSIONS	1270mm (50in) span diagonal - engine to engine
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
WIND RESISTANCE	30.8 m/s (60 knots) continuous
MAX SPEED	35.7 m/s (80 mph)
OPERATING TEMPERATURE RANGE	-17°C to 50°C (0°F ~ 122°F)
MAX FLIGHT TIME	60+ minutes with camera payload
MAX ALTITUDE	5,000m (16,400ft)
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

MISSION PROFILES

- » Marine operations
- » Embedded, all-weather recon
- » Search and rescue
- » BVLOS operations (where allowed)
- » Long duration camera platform

KEY FEATURES*

- » True all-weather, high-wind VTOL
- » Low-level, terrain tracking
- » Weatherproof - water and high wind resistance
- » Set up and operational in less than 5 minutes
- » FAA Approved Lighting for Nighttime Flight
- » Optional Red/Blue police strobe lights with on/off control available)
- » Autonomous Take off and Landing

***Additional camera/payload options available at customer request.**

OPTICAL & IR SPECS

» OPTICAL

Zoom : x20 + x2 digital, (total x40)

» THERMAL

Resolution: 640 x 480

» FIELD OF REGARD

Pitch: -90° to +135°, YAW: -165° to +165°,
ROLL: -45° to +45°

» FEATURES

Electronic Stabilization, EO/IR object tracking, Geo location, Video compression, License plate recognition capabilities

