

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



» WIND RESISTANCE

» ENDURANCE



» MAXIMUM AIRSPEED



» LINK RANGE

5

» ALL-WEATHER

INGRESS PROTECTION

IP66

» USABLE PAYLOAD CAPACITY

9KG (20 LBS)

WEATHERPROOF



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

WaveAerospace, Inc | 1-203-392-1400 | sales@waveaerospace.com | www.waveaerospace.com // © 2023 WaveAerospace, its product names and the WaveAerospace logo are protected trademarks of WaveAerospace Inc. All other company, product names, logos, and brands are property of their respective owners and are for identification purposes only. Use of these names, logos, and brands does not imply endorsement. Screen images may be simulated. All specifications are subject to change. This data sheet consists of WaveAerospace, Inc. general capabilities information that does not contain controlled technical data as defined within the International Traffic in Arms Regulations (ITAR) Part 120.10 or Export Administration Regulations (EAR) Part 734.7-11.

