

Critical Logistics

You can't provide critical logistics if you can't fly when it's critical.

WaveAerospace's X-5A Falcon II heavy weather platform is built to reliably operate when other aircraft can't even takeoff due to wind and weather.

Payload agnostic, the Falcon II carries a variety of sensors. BVLOS operations and 60-minute flight time allow precise vectors inbound and outbound of complex or congested areas.



WaveAerospace X-5A Falcon II
(Var. USCG)

Don't Fly Blind

Just because your aircraft may be beyond line-of-sight doesn't mean you should be. WaveAerospace's integrated Mesh Rider® communications system securely provides pilots and others* with continuous, real time telemetry and high-definition video from takeoff to landing on a private network over 110 km, regardless of geography and obstacles.

Need to go further? Even global? WaveAerospace seamlessly integrates with US FCC licensed and unlicensed bands through an encrypted FIPS 140-3 compliant link with cellular and LAN services.

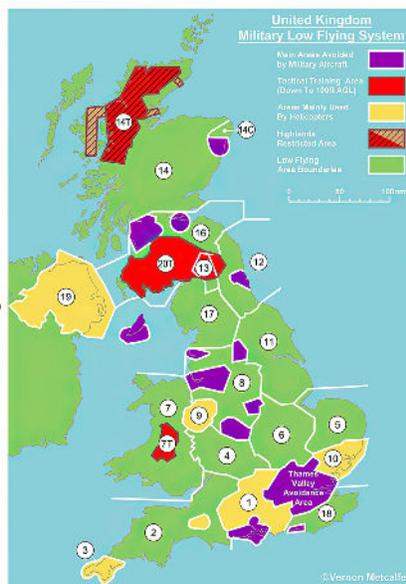


Restricted Airspace

Sometimes the shortest route from point 'A' to point 'B' is NOT a straight line. The Falcon II aircraft's extended range and geography-independent, low altitude communication allow it to navigate around any level of restricted airspace safely and predictably. Furthermore, should a conflict be detected, the aircraft may be redirected by the direct intervention of its pilot.

As our aircraft itself functions as a node in its communication system, in the unlikely loss of a node in the network, the aircraft itself, or any other registered WaveAerospace aircraft within approximately 20 km, will seamlessly reroute communications without interruption.

While the aircraft may be flown via its ground station alone, the base Mesh Rider® system can support up to 250 individual nodes. These nodes can be other aircraft, ground stations, vehicle/boat mounted, and wearable nodes.



Falcon II Feature Highlights:

- Span (unfolded): 1270 mm (50 inches)
- Propellers: Four, 3-blade, 470 mm (18.5 inch) pre-balanced carbon fiber
- Power Source: Solid State lithium-based electric power system
- Flight Time (standard payload): 60 Minutes
- Takeoff Weight (MTOW): 20 kg (44 lbs)
- Payload Capacity: 9 kg (20 lbs)
- Cruise Speed (maximum): 32 m/s (72 mph)
- Service Ceiling: 5000 meters MSL
- All-Weather Ingress Protection: IP66
- Wind Resistance (VTOL): 26 m/s (58 mph)
- FAA Approved Lighting for Nighttime Flight
- Integrated, automatic fire suppression
- Redundancies, 2 GPS, 3 magnetometers, 5 IMUs, and 3 temperature-controlled flight computing units
- AES-256 encrypted Mesh Rider® communication system
- Realtime HD 1080P video with onboard AI-based object tracking
- Handheld IP68 ground station with 10-inch touchscreen

