

WINDRACERS ULTRA™ MK2



WINDRACERS
The low-cost logistics champion

WINDRACERS ULTRA™ MK2

Windracers **ULTRA MK2**, the next generation of aircraft launched in 2025, has been redesigned and advanced to better **deliver the mission** of our customers – more power, more payload, easier to use and more robust - while driving down the cost of operation and improving dependability.

- + POWER
- + PAYLOAD
- + EASE OF USE
- + ROBUST



WINDRACERS ULTRA™

The Problem

Find a low-cost way to deliver long-range emergency humanitarian support to remote communities or where road infrastructure is poor or non-existent.

The Solution

Windracers ULTRA™, a low-cost, dependable self-flying cargo aircraft powered and controlled by advanced autopilot and mission control software.

ULTRA Today and Next

Not only serving humanitarian needs, Windracers ULTRA is disrupting the middle-mile logistics market today through its low-cost, dependability and autonomous operation.



LOW-COST

Always in Our Name

ULTRA = **U**ncrewed
Low-Cost TRANsport

Windracers ULTRA™ is the world's most accomplished long-distance heavy-lift cargo UAV available today.

With application to a wide range of use cases – deliver, drop and detect.

Windracers ULTRA has flown countless BVLOS missions, including:

- Reconnaissance and resupply in Ukraine
- Geological and wildlife surveying in Antarctica
- Parcel delivery off the Scottish and English coasts
- Wildfire detection and suppression missions
- Dropped medical supplies by parachute

Windracers ULTRA Serves



British Antarctic Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL



**AVIATION
SANS FRONTIÈRES**
ASF INTERNATIONAL



**Ministry
of Defence**



NORCE



- + POWER
- + PAYLOAD
- + EASE OF USE
- + ROBUST

Windracers ULTRA™ is a **system** that combines our rugged cargo **aircraft**, integrated autopilot and mission control **software**, and **operational services** derived from civilian and military aviation best practices.

When you call on Windracers ULTRA to deliver your mission, these elements each play a critical role in delivering the outcome on time, in the place and at the cost that you set out to achieve.

Every aspect of Windracers ULTRA – aircraft, software and services - has been designed, constructed and deployed with high redundancy, ensuring minimal risk of failure so you can rely on it, no matter the circumstances.

Unlike other drone platforms that are still in testing, Windracers ULTRA is connecting people to the things they need and want **today** all over the world.





Lowering the cost of connecting
people to the things they need and
the things they want.



AIRCRAFT

ULTRA MK2 SPECIFICATIONS

Performance*

Cruise speed	77 knots/hour
Range	Up to 1,000 km**
Max climb rate	800 ft/min at 450 kg
Service Ceiling	13,000 ft
Nominal endurance	7/9 hours (Extended Endurance Fuel Tank)
Runway	Paved, grass, gravel & dirt

Powerplant

Power	2 HIRTH F23 45hp engines
Fuel	Unleaded fuel/oil mixture

Weights

Max take-off mass	510 Kg
Useful payload	150 Kg

Dimensions

Wingspan	9.3 m
Length	5.4 m
Width (wings off)	2.1 m
Height at tail	2.1 m
Payload volume	700 l

Communications

Internet	High-Speed Low-Latency SATCOM
Camera	1 HD Streaming Video Camera (on Tail)

* All performance estimates are at sea level conditions in a standard atmosphere (15 degrees C, 101325Pa). Deviation from these conditions could result in different performance results.

** With Extended Endurance Fuel Tank.

ADDITIONAL CAPABILITIES

Drop Doors

Windracers ULTRA™ can be fitted with 3 drop doors to provide the capability to drop (via parachute), essential supplies.



Equipment Integration

Windracers ULTRA payload floors can be customised to accommodate specialised scientific survey equipment and sensors.

Extended Endurance Fuel Tank

ULTRA can be fitted with an extended endurance fuel tank to remain in the air for longer periods of time.

Communications & Cameras

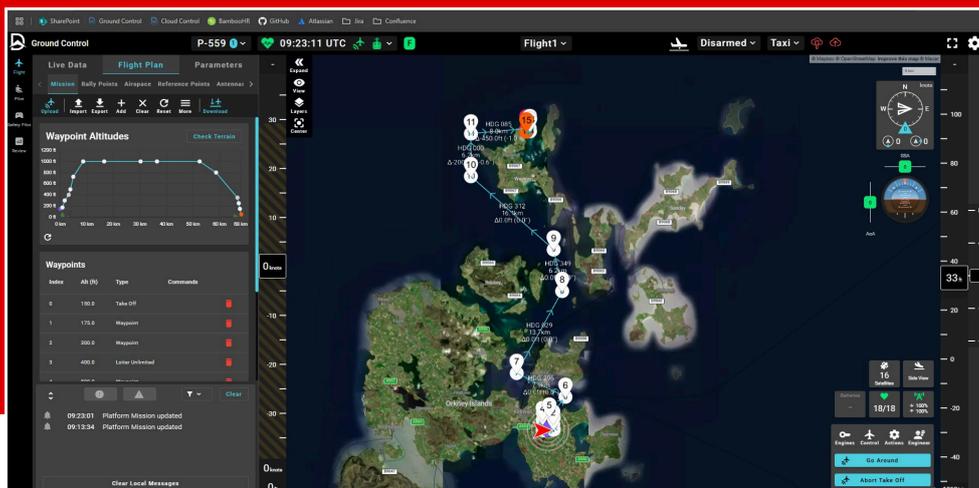
MPU5 and DTC radios and additional streaming HD cameras are available.



SOFTWARE

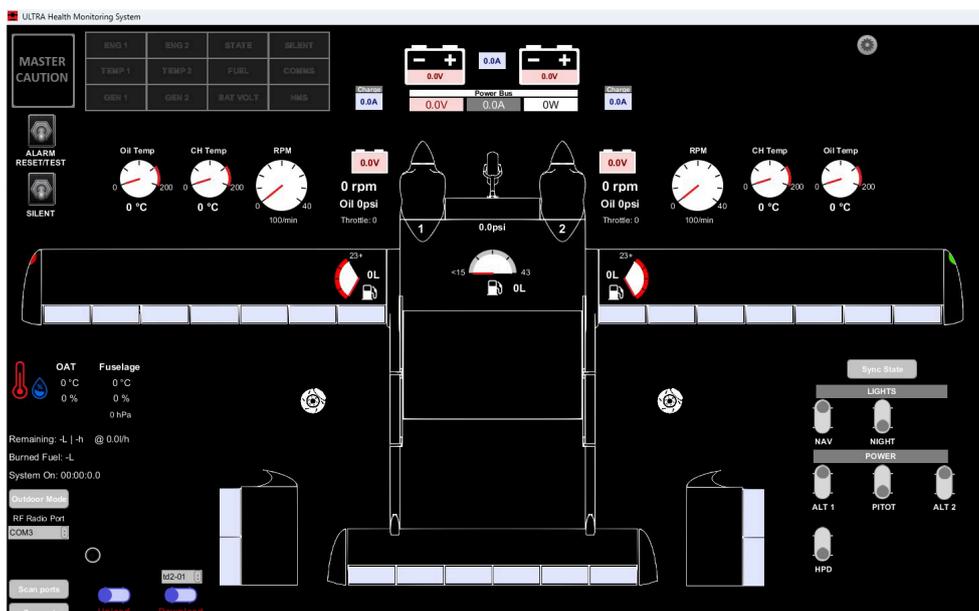
WINDRACERS AUTOPILOT™

Windracers Autopilot™ onboard software guarantees that ULTRA MK2 safely and reliably carries out complex missions. The software is powered by Windracers Masterless™ that utilises a Zero Single Point of Failure philosophy.



WINDRACERS MISSION CONTROL™

Windracers Mission Control™ plans the mission, works with Windracers Autopilot to provide real-time feedback on the aircraft's status, and controls the mission. Windracers Mission Control enables operators to modify or change missions as needed quickly even during the flight.





OPERATIONAL SERVICES

Windracers understands while many aircraft could fulfil a mission, you need to know that Windracers ULTRA™ will fulfil your mission. Windracers gives you options.

ULTRA AS A SERVICE™

If you don't want to operate ULTRA directly, there is ULTRA as a Service™ where Windracers Operations, a team of operational experts with civilian and military aviation backgrounds, assess, plan, set up and carry out operations to complete your mission.

ULTRA DIRECT™

If you or a trusted partner have the capability to operate ULTRA, there is ULTRA Direct™. Windracers Operations trains your team on the aircraft, software and maintenance procedures as well as supplying spares packages and providing on-going oversight as your teams utilise ULTRA.





AVIATION AUTHORITY PERMISSIONS

UNITED STATES (FAA)

UNITED KINGDOM (CAA)

AFRICA

EASA (PENDING)

ANTARCTICA



Windracers is the low-cost logistics champion whose mission is to make self-flying cargo aircraft an everyday reality. Using Windracers ULTRA™ as a solution for middle-mile logistics, Windracers brings prosperity to those that need it by connecting people to the things they need and want. Windracers ULTRA is the world's most accomplished long-distance heavy-lift cargo UAV available today. With a useful payload of 150 kg and a range of 1,000 km, Windracers ULTRA has flown countless BVLOS missions including reconnaissance and resupply in Ukraine, geological and wildlife surveying in Antarctica, parcel delivery off the Scottish and English coasts, wildfire detection, and dropping medical supplies by parachute. Available as a service or direct purchase, Windracers ULTRA has flown in Antarctica, North America, the United Kingdom, Europe and will soon operate in Africa.

Learn more at [windracers.com](https://www.windracers.com) Follow on [LinkedIn](#) to keep up with latest news from Windracers.

