



Reliant

Long-Range VTOL UAS

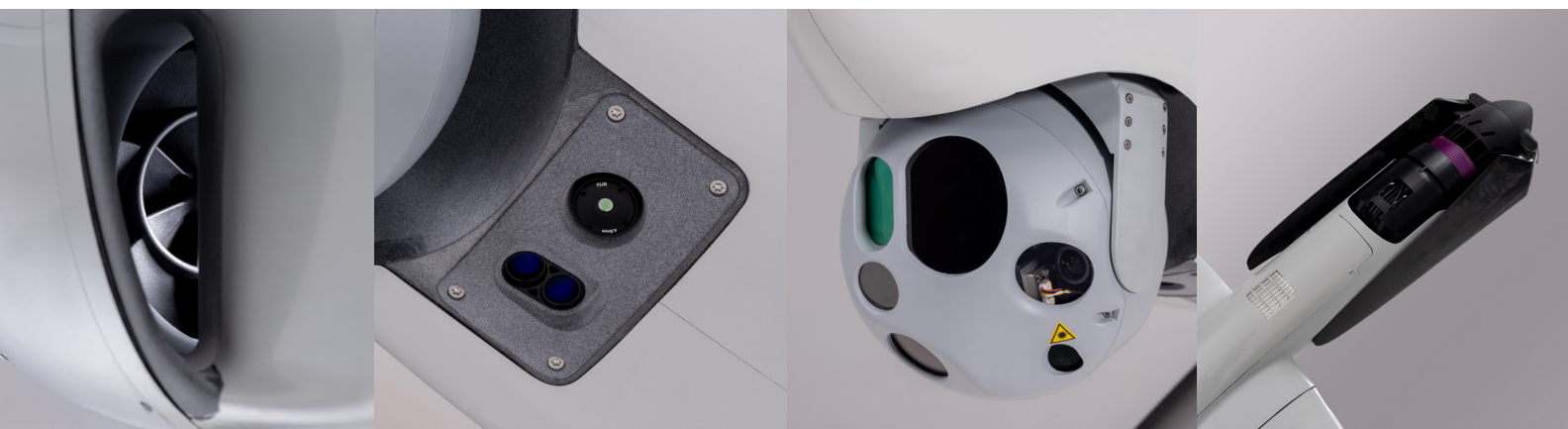
Group 3 ISR/RSTA platform for extended operations

Reliant is a cutting-edge fixed-wing VTOL UAS **designed for critical beyond-line-of-sight ISR/RSTA missions in contested and GNSS-denied environments.** Engineered for military and defense operations on land and sea, it delivers advanced automation, persistent aerial intelligence, and supports Multi-Domain Operations (MDO) and Software Defined Defense (SDD).

Delivering high-resolution EO/IR imagery and mission-critical intelligence in real time, Reliant provides AI-powered image analysis and tactical insights. Its hybrid-electric propulsion system combines long endurance with flexible deployment across diverse operational environments.

Fully integrated into the Quantum Systems MOSAIC UXS software platform, Reliant enables seamless mission planning, data integration, and coordinated multi-domain operations. Its open, interoperable architecture simplifies integration into existing command and intelligence workflows.

Reliant requires only a 10 × 10 m launch and recovery area. A two-person team can assemble the system, while a single operator can conduct missions. Its minimal footprint, modular design, and scalable training concepts enable rapid deployment and adaptation to evolving mission requirements.



Technical Specifications

Wingspan	4.3 m / 14.1 ft
Length	2.38 m / 7.8 ft
IP Rating	IP 55
Logistic Footprint	Transportable in a single vehicle
Data Link Range	160 km
Data Link Freq.	2.2 - 2.5 GHz 4.4 - 4.9 GHz
Data Encryption	AES 256
AI Processing	2x NVIDIA Jetson Orin

Flight Performance

MTOW	45 kg
Flight Endurance	10+ hours
Speed Range	~ 25 m/s
Wind Tolerance	15 m/s
Max. Take-Off Altitude (MSL)	3000 m
Max. Operating Altitude (MSL)	4500 m
Operating Mode	eVTOL



Payloads

- + Capacity 9kg
- + Gimbaled EO/IR sensor with additional options
 - Laser rangefinder
 - Laser designator
 - Laser illuminator
- + MOD payload system
 - SIGINT payloads
 - CRPA modules
 - Electronic Warfare (EW)
- + Additional payloads
 - SATCOM connectivity
 - Synthetic Aperture Radar (SAR)
 - CENTUM EasyCatcher: Airborne IMSI catcher
 - Other mounted payloads

Special Features

- + Precision landing and obstacle avoidance in day and night conditions
- + GNSS-denied operation through absolute and relative referencing
- + ADS-B In and optional TSO-certified ADS-B Out for air traffic awareness
- + Optional Mode 5 / IFF transponder
- + Swarm missions and distributed planning with minimal user intervention (MUM-T)
- + Relay system

