



Reliant

Long-Range VTOL UAS

Group 2 ISR/RSTA platform for extended operations



Technical Specifications

Wingspan	14.1 ft / 4.3 m
Length	7.8 ft / 2.38 m
IP Rating	IP55
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	73 lbs / 33 kg
Flight Endurance	10+ hours
Speed	~ 56 mph
Wind Tolerance	34 mph
Max. Take-Off Altitude (MSL)	9,843 ft / 3,000 m
Max. Operating Altitude (MSL)	14,764 ft / 4,500 m
Operating Mode	eVTOL

Reliant is a fixed-wing VTOL UAS for long-range ISR, RSTA, and target acquisition in GNSS-denied and austere environments. With over 10 hours of endurance, it delivers persistent overwatch for land and maritime operations, enabling forces to detect, identify, and track threats before committing assets.

Designed for beyond-line-of-sight missions, Reliant features dual interchangeable payload bays that support ISR, SIGINT, and EW, offering

mission-specific flexibility while maintaining a shared operating picture across echelons.

Packaged in two compact, rugged cases, Reliant is easily transported in a pickup or JLTV for rapid deployment and sustained operations in any environment.

Sensors



Merio
MILVUS 16D

Size	Height: 8.7 in Diameter: 6.3 in
Weight	4.4 lbs / 2,000 g
Resolution	EO: 1920x1080 LWIR: 640x480
Zoom	EO: 30x Optical; 12x Digital IR: 8x Digital
Additional Capabilities	Laser Designator; Laser Range Finder; Laser Pointer



CONTROP
MICRO-STING-D

Size	Height: 8.9 in Diameter: 4.9 in
Weight	4.1 lbs / 1,850 g
Resolution	LWIR: 1280x1024 5MP Sensors: 2480x2400
Zoom	4x Digital
Additional Capabilities	Laser Designator; MIR Illuminator; Inertial Navigation



Merio
MILVUS 16MW

Size	Height: 9.1 in Diameter: 6.7 in
Weight	5.3 lbs / 2,400 g
Resolution	EO: 1920x1080 MWIR: 640x512
Zoom	EO: 30x Optical; 36x Optional IR: 15x Digital
Additional Capabilities	Laser Range Finder; Laser Pointer

Key Features

RAPID DEPLOYMENT

Minimal footprint, takes off and lands in 10 x 10 m area with no launch or recovery equipment required. Modular, tool free design allowing for assembly in under 10 minutes.



MODULAR PAYLOAD COMPLIANT

Modular third-party payload capability for operational flexibility. Gimballed EO/IR sensor with additional payload options such as a laser rangefinder, designator, or illuminator, aperture radar, CRPA modules, SIGINT and EW payloads, and additional data links.



AI-DRIVEN AERIAL INTELLIGENCE

Tactical insights and mission-critical information for ISR powered by 2 NVIDIA Jetson Orin NX for onboard AI. Dual-band connectivity with automated frequency changes and AI-driven anti-jamming algorithms for uninterrupted GNSS-denied operations.



Family of Systems

Built for scalability, interoperability, and dominance, our Family of Systems integrates three VTOL platforms for AI-powered situational awareness in multi-domain operations. With autonomous UAS ready for any ISR mission, this aerial intelligence toolkit ensures warfighters have the right asset at the right time, enabling swift decisions and mission success in dynamic environments.

Reliant

Vector AI

Twister

