



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 |
| Cruise Speed | ~56 mph / 25 m/s |
| Wind Tolerance | 30 kn / 15 m/s |
| Max. Take-Off Altitude (MSL) | 9,843 ft / 3,000 m |
| Max. Operating Altitude (MSL) | 14,764 ft / 4,500 m |
| Operating Mode | Hybrid VTOL |

Reliant is a Group 2 fixed-wing hybrid VTOL UAS built for long-range ISR, RSTA, and target acquisition in GNSS-denied and austere environments. With 10+ hours of endurance and a heavy-fuel internal combustion engine, it delivers persistent overwatch without runways or launch equipment.

Designed for beyond-line-of-sight missions, Reliant features dual swappable payload bays for ISR, SIGINT, or EW. Onboard edge AI processing enables real-time

threat detection and autonomous rerouting—even without connectivity.

Packaged in two rugged cases, Reliant is deployable by two operators in under 10 minutes from a 10×10 m footprint—including rooftops, ships, and remote terrain.

With IP55-rated all-weather protection, GNSS-denied navigation, and resilience, Reliant gives operators the flexibility, reach, and survivability required to dominate complex, contested battlespaces.

Sensors



Merio
MILVUS 16D

| | |
|-------------------------|---|
| Size | Height: 9.1 in Diameter: 6.3 in |
| Weight | 4.4 lbs / 2,000 g |
| Resolution | EO: 1920x1080 LWIR: 1280x1024 |
| 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 | 6.1 lbs / 2.8 kg |
| Resolution | EO: 1920x1080 MWIR: 640x512 |
| Zoom | EO: 30x Optical; 12x Digital MWIR: 15x Optical; 8x 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. Gimbaled 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

