



Twister™

Short-Range eVTOL sUAS

Compact tactical ISR platform for dynamic small-scale operations



Technical Specifications

Wingspan	1.25 m / 4.1 ft
Length	0.6 m / 1.97 ft
IP Rating	IP54
Data Link Range	15 km
Data Link Freq.	2.2 - 2.5 GHz 4.4 - 4.9 GHz
Data Encryption	AES 256
AI Processing	NVIDIA Jetson Orin

Flight Performance

MTOW	3.8 kg
Flight Endurance	90 min
Speed Range	19 - 21 m/s
Wind Tolerance	10 m/s (ground) 12 m/s (air)
Max. Take-Off Altitude (MSL)	3200 m
Max. Operating Altitude (MSL)	3700 m
Operating Mode	eVTOL

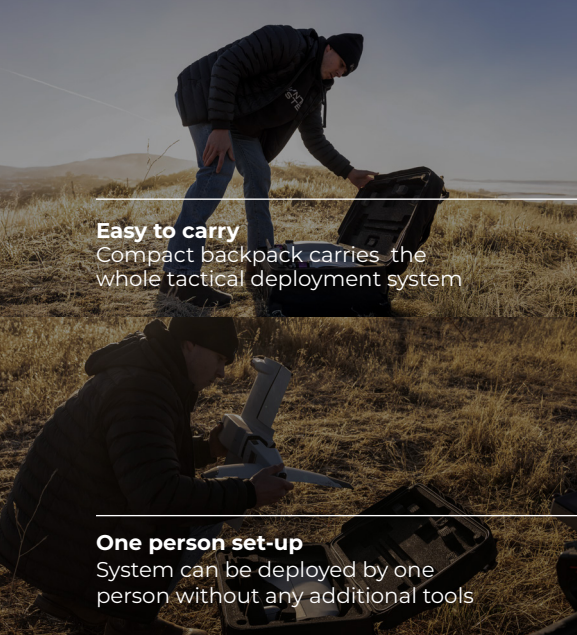
Twister™ is a compact eVTOL sUAS that delivers visual and acoustic aerial intelligence for **critical short-range ISR missions** in military, defense, and public safety sectors. It supports surveillance, artillery optimization, border security, reconnaissance, disaster management and law enforcement, **enabling better decision-making and operations.**

Payloads

- EO/IR gimbal (with laser illuminator option available)
- Acoustic sensor

At Quantum Systems, we innovate drone technology by integrating hardware, software, and AI to **redefine aerial intelligence**. Our Twister™ sUAS delivers exceptional solutions for **Multi-Domain Operations (MDO)** and **Software Defined Defense (SDD)**.





Easy to carry

Compact backpack carries the whole tactical deployment system



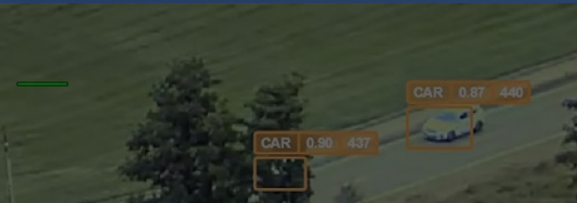
One person set-up

System can be deployed by one person without any additional tools



Minimal signature

Inaudible and almost invisible at operating altitude



Edge AI capabilities

Object detection, classification, and tracking (EO/IR)

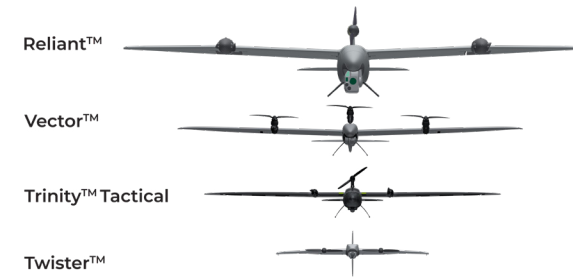


eVTOL tailsitter

Launchable from almost any location

Family of Systems (FoS)

Our family of systems, comprising four eVTOL drones and a drone-port solution, integrates hardware, software, and AI to deliver innovative aerial intelligence for Multi-Domain Operations and Software Defined Defense. Our scalable and functional solutions are the key to efficient and networked situational awareness in dynamic environments.



Digital Battlefield Capabilities

Gather Aerial Intelligence

- High-resolution EO/IR **visuals in real-time**
- **Tactical insights** and mission-critical information powered by onboard AI

Operate Anywhere

- Absolute & relative referencing for **uninterrupted GNSS-denied operations**
- Autonomous navigation and minimal footprint

Secure and Future-Ready System

- Scalable, modular design **adaptable** to evolving threats
- **Blended and modular training** concepts for efficient user enablement



Data Capturing

EO/IR Gimbaled Video Sensor

- High-resolution imaging for **mission-critical intelligence**
- Advanced encoding formats: H.265, AV1



Data Processing

ISR Tactical Edge

- Advanced **visual and acoustic intelligence** for surveillance and reconnaissance
- **Real-time decision-making** in dynamic environments



Data Sharing

Unified Operational Picture

- Integrated data streams for **real-time situational awareness**
- Comprehensive, actionable insights across domains

Navigation and Awareness Systems

- Precision landing and obstacle avoidance in **day/night conditions**

Platform Flexibility

- Modular ROS/Docker architecture for **scalability** and future-proofing
- Powered by NVIDIA Jetson Orin NX for **onboard AI** processing

EW-Resilient Communications

- **Dual-band connectivity** with automated frequency changes
- **Interoperable** APIs for battle management systems like SitaWare, FacNav, and Kropyva

Acoustic Data

- Detection of acoustic events such as gunshots, artillery fire, and other explosions
- **Precise localization** of acoustic events

Receptor AI Unified Software Suite

- **Sensor Fusion** for improved flight operations, tactical insights and predictive maintenance
- AI Capabilities
 - Advanced image processing (EO/IR)
 - Scene analysis for **immediate threat assessment**

Autonomous and Flexible Operations

- Swarm missions and distributed planning with **minimal user intervention**
- Enables **distributed mission planning** and swarm operations (MUM-T)



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