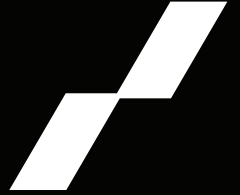


Quantum Systems

Our Products



Contents

04

About Us

08

Milestones

10

Operator Insights

12

Portfolio

01

About Us

About Us

Mission

To serve and protect frontline forces by providing world-class aerial intelligence.

Vision

To lead the way in aerial intelligence for frontline forces, consistently pushing the boundaries of technology to deliver innovative, reliable, and high-quality solutions.



History

Quantum Systems opened the doors to its Southern California-based facility in 2022 with the purpose of serving defense and security customers throughout North and South America.

The organization was initially founded in 2015 by a visionary team, led by Florian Seibel, in Gilching, Germany that developed a pioneering patent for a vertically launchable unmanned transition aircraft. The global company has achieved a compound annual growth rate of 112 percent over the last five years driven by a commitment to innovation and excellence.

QUANTUM SYSTEMS

Supporting Your Mission with Global Reach
and Local Expertise.



Locations

1. Munich
2. Los Angeles
3. Brisbane
4. Kyiv
5. Berlin
6. Madrid
7. Bucharest

Starting

2015

5 Employees

Founding of Quantum-Systems GmbH.
Granted first VTOL patent.

2019

42 Employees

Launches first defense-focused
product: Vector.

2023

194 Employees

Second Los Angeles, Calif. area manufacturing
facility opens to support growing demand.
Ukraine expansion: Quantum-Systems LLC.

2025

400+ Employees

North America expansion with
opening of 135,000 sq. ft. Los Angeles,
Calif. facility.

2018

35 Employees

Launches first commercial line
product: Trinity.

2022

129 Employees

North America Expansion:
Quantum-Systems Inc.

2024

382 Employees

Asia Pacific Expansion:
Quantum-Systems Pty Ltd.

Germany Expansion:
Berlin Office

9

Milestones

Operator Insights

”

[Vector] provides the NZ Army with a cutting edge piece of kit which means we can keep pace with the rest of the world in the ever evolving UAS realm. It also allows us to develop and grow our tactics and procedures so that we are more deployable more of the time.

APAC DoD Customer

”

Vector should absolutely be the asset that replaces the Raven. With its ISR capabilities, it's easier to detect targets during limited visibility operations and the thermal camera is very effective.

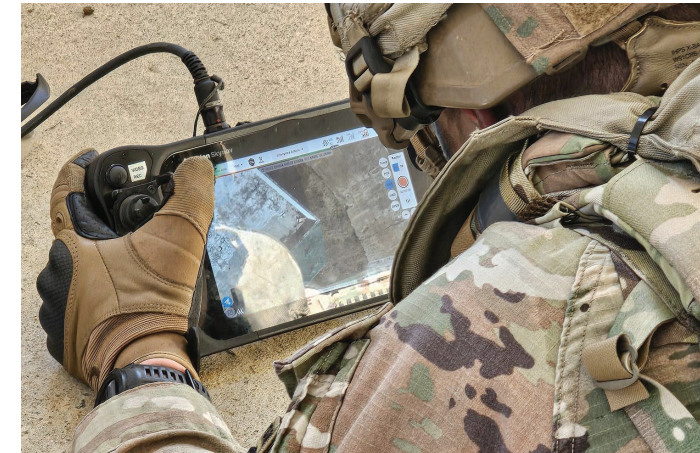
U.S. DoD Customer



”

Vector allows me, as the operator, to help my commander find and grid enemy troops and call for fire even before my guys get to that area. It also is great for recon and fire missions because it provides a constant set of eyes on the battlefield, which can be beneficial if we need to quickly plan or adjust mission execution.

U.S. DoD Customer



02

Portfolio

Family of Systems

The Family of Systems—featuring the runway-independent Twister (short-range), Vector AI (mid-range), and Reliant (long-range) VTOL UAS—ensures warfighters at every echelon have the right ISR asset at the right time. Designed for seamless cross-platform interoperability, these UAS bridge the decision-making gap between small unit operators and higher command by delivering real-time, actionable intelligence across the battlespace.

As a technology leader in aerial intelligence, Quantum Systems continuously equips its Family of Systems with advanced embedded AI capabilities. This enables these platforms to autonomously detect and track targets, visually navigate in GPS-denied environments, and execute swarming maneuvers for real-time coordinated operations. Future-proof by design, our UAS are engineered to evolve with mission needs.





Twister™

Short-Range eVTOL sUAS



Twister™

Portable ISR for the mobile warfighter

Twister is a rucksack-portable, rugged eVTOL sUAS that delivers rapid, real-time intelligence for squad, platoon, and company-level operations. Combining portability with advanced capabilities, it provides high-resolution video and AI-powered object detection, tracking, and classification, enabling actionable intelligence to enhance situational awareness and accelerate decision-making at every echelon. Deployable in under two minutes with minimal logistical demands, Twister is built to go wherever the operator does. Equipped with the open-interface Quantum Bluenode module, Twister offers full MAVLINK and ATAK compatibility via Cursor on Target (CoT), ensuring interoperability with third-party systems and future-proof customization.

Sensors



NextVision
NIGHTHAWK2-UZ
Zoom 20x Optical /
2x Digital



AVT Australia
CM62 SERIES
Zoom 23x @720p /
2x Digital

Endurance	90 minutes
Link Range	15 km
Wingspan	4.1 ft / 1.25 m
Max. Take-off Weight	8.4 lbs / 3.8 kg
Max. Take-Off Altitude (MSL)	10,500+ ft / 3,200+ m
Max. Operating Altitude (MSL)	12,140+ ft / 3,700+ m
Wind Tolerance	22 mph (ground) 27 mph (air)
Speed Range	42.5 to 47 mph / 19 to 21 m/s
Operating Temperature	-4 °F to 113 °F / -20 °C to 45 °C
Data Link Frequency	2.2 to 2.5 GHz 4.4 to 4.9 GHz



Key Features

- Rucksack-ready and lightweight design enables easy transport and operation by a single user, optimizing for mobility in tactical scenarios
- Low acoustic noise and visual signature at altitude for operational discretion
- Force multiplier across tactical units with swarm capability, providing overlapping ISR coverage in larger, distributed operations



Vector™ AI

Next-Gen Mid-Range
eVTOL sUAS





Vector™ AI

Mission-flexible UAS for contested environments

The next-generation Vector eVTOL sUAS, Vector AI, is engineered based on previous combat-tested and proven iterations to deliver real-time intelligence and rapid deployment to forward operators in contested environments. Its rugged airframe, increased endurance, and modular payloads enhance mission flexibility. Integrated dual NVIDIA Jetson Orin SOMs for real-time AI/ML processing supports advanced object detection and tracking data that can be shared in real time via ATAK and other mission-integrated platforms. Portable and mission-adaptive, Vector AI endures, evolves, and delivers intelligence anywhere.

Key Features

- Dual-operation design allows operators to switch between multicopter mode for agile reconnaissance and fixed-wing mode for extended ISR as the mission evolves
- Enables real-time object tracking and seamless integration of advanced ISR and EW sensors with cutting-edge AI processing and an open payload bay
- Anti-jam GPS, VIO, and SLAM mapping deliver anti-jamming, autonomous navigation, and resilient communication for EW environments

Sensors



NextVision
RAPTOR
Zoom 40x Optical /
2x Digital



Trillium
HD-40LV
Zoom 10x Optical /
2x Digital

Endurance	180+ minutes
Link Range	40 km (SRA) / 80+ km (MRA)
Wingspan	9.2 ft / 2.8 m
Max. Take-off Weight	21 lbs / 9.5 kg
Max. Take-off Altitude (MSL)	9,843+ ft / 3,000+ m
Max. Operating Altitude (MSL)	13,123+ ft / 4,000+ m
Wind Tolerance	22 mph (ground); 27 mph (air)
Speed Range	34 to 45 mph / 15 to 20 m/s
Operating Temperature	-4 °F to 122 °F / -20 °C to 50 °C
Data Link Frequency	2.2 to 2.5 GHz; 4.4 to 4.9 GHz





Reliant™

Long-Range VTOL UAS



Reliant™

Force-multiplying ISR for extended operations

Reliant is a fixed-wing VTOL UAS built for warfighters operating beyond friendly lines, delivering 10+ hours of persistent ISR for deep reconnaissance, target acquisition, and force protection in contested environments. This Group 2 UAS requires no runways or launch equipment and is operational in under 10 minutes, ensuring rapid deployment in austere environments. It provides covert, real-time intelligence to support rapid, informed decision-making across echelons, ensuring commanders and operators share a common operating picture to close the kill chain faster. With a low-signature profile and AI-powered target recognition, Reliant enables warfighters to detect, identify, and track threats before committing forces, enhancing situational awareness and force protection.

Key Features

- Modular payload compliant, supporting third-party ISR, SIGINT, and EW payloads that enable warfighters to detect, identify, and track threats in real time
- Low-signature profile enables covert ISR over land and sea for real-time intelligence to support time-sensitive targeting and force protection
- Easily transportable in a pickup or JLTV with two compact cases for rapid deployment and sustained operations in austere conditions

Sensors



CONTROP
MULTI-STAMP

Weight 3.74 lbs / 1,700 g
Zoom 10x Optical / 4x Digital
Additional Capabilities Laser Designator; Target Recognition; Geo-location; EO/IR Surveillance



Trillium
HD59-MLVS

Weight 4.2 lbs / 1,900 g
Zoom 10x Optical / 4x Digital
Additional Capabilities Laser Pointer; Laser Rangefinder; Laser Designator; Scene Tracking; Geo Tracking; Target Tracking



Hood Tech Vision
Alticam 06EOIR2

Weight 5.57 lbs / 2,530 g
Zoom 10x (MWIR) / 40x (EO)
Additional Capabilities Laser Pointer; Image Stabilization; Target Tracking; VMT; ATR



Endurance 10+ hours
Link Range 160+ km / LRTA
Optional: SATCOM BLOS
Wingspan 14.1 ft / 4.3 m
Max. Payload Capacity 11.2 lbs / 5 kg at max. fuel capacity
Max. Take-off Weight 72.8 lbs / 33 kg
Max. Take-Off Altitude (MSL) 9,843 ft / 3,000 m
Approx. Cruise Speed 56 mph / 25 m/s
Data Link Frequency 2.2 to 2.5 GHz
4.4 to 4.9 GHz



Connectivity

Extended command &
control at the tactical edge



Connectivity

An antenna for all your operational needs



Standard Range Antenna (SRA)

Link Range	40 km	Radio Type	Silvus SC42A0
Antenna Gain	4dBi @ 2.2 to 2.5 GHz 6dBi @ 4.4 to 4.94 GHz	Native TX Power (variable)	1mW to 8W
Frequency	2.2 to 2.5 GHz 4.4 to 4.94 GHz	Effective TX Power w/ Beamforming	up to 32W
Scan	Azimuth: 360° Elevation: 42°	Encryption	DES, AES/GCM 128/256 (FIPS 140-2), Suite B



Mid-Range Tracking Antenna (MRTA)

Link Range	60+ km	Radio Type	Silvus SC42A0
Power Source	Vector™ Battery or 24V DC plug	Frequency	2.2 to 2.5 GHz 4.4 to 4.94 GHz
Scan Range	Azimuth: 360° continuous Elevation: -45° to +95°	Encryption	DES, AES/GCM 128/256 (FIPS 140-2), Suite B

Mid-Range Antenna (MRA)

Link Range	80 km	Radio Type	Silvus SC4480
Antenna Gain	12 dBi	Native TX Power (user adjustable)	1mW to 8W
Frequency	2.2 to 2.5 GHz	Effective TX Power w/ Beamforming	up to 32W
Scan	Azimuth: 117° Elevation: 18°	Encryption	AES-256; DES-56; FIPS 140-3 Level 2



31



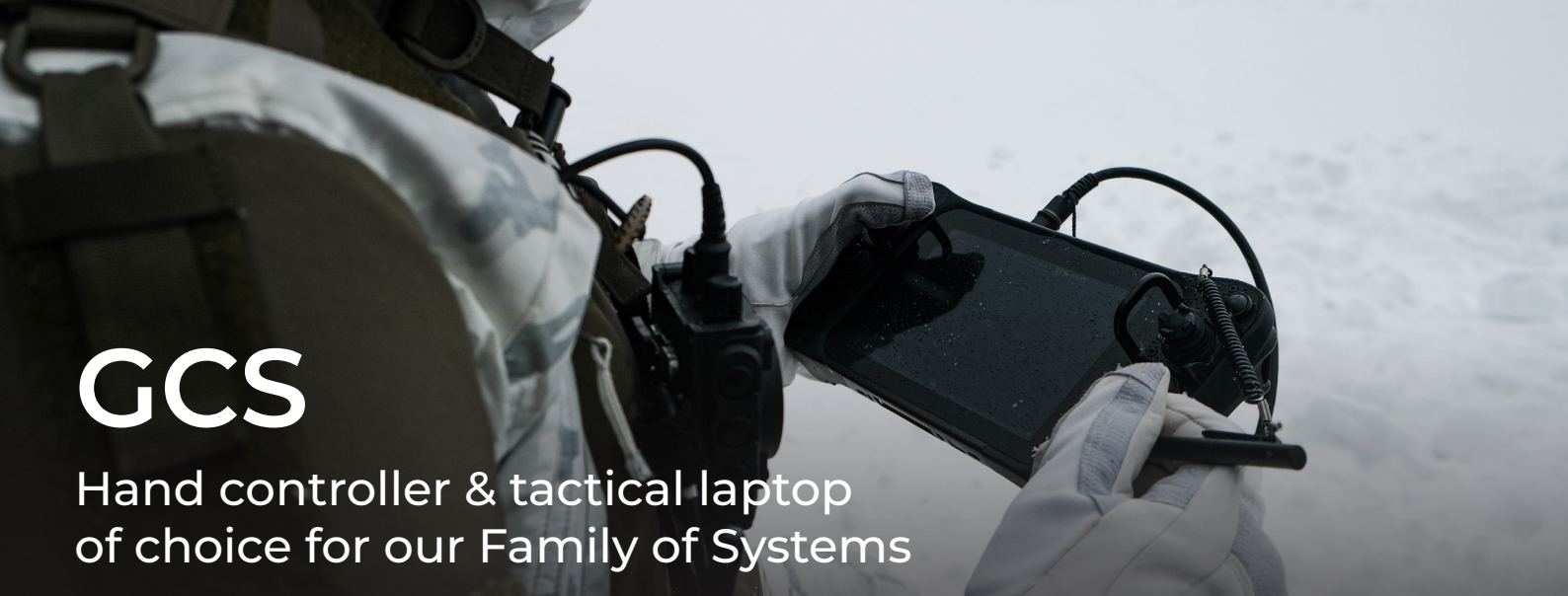
Long-Range Tracking Antenna (LRTA)

Link Range	160 km	Radio Type	Silvus SC44KO
Antenna Gain	S-Band: 24 dBi	Native TX Power (user adjustable)	1mW to 20W
Frequency	2.2 to 2.5 GHz	Effective TX Power w/ Beamforming	up to 80W
Scan Range	Azimuth: -180° to 180° Elevation: -10° to 130°	Encryption	AES-256; DES-56; FIPS 140-3 Level 2



GCS

Rugged mission control
for mobile operations



GCS

Hand controller & tactical laptop of choice for our Family of Systems



SRoC 7" by UXV Technologies

The SRoC 7" Windows is the universal ground control station for Quantum Systems' Family of Systems, enabling seamless operation across our unmanned platforms. Designed for ultimate reliability, the GCS empowers operators with a compact, modular solution to control assets.

Operating System	Windows 11	Weight	2.04 lbs / 927 g
Display	7 in WUXGA 1920 X 1200 (323 ppi)	Dimensions	10.08 x 5.11 x 2.55 in / 256 x 140 x 65 mm
Graphics	Intel® Iris® XE Graphics	Memory	16/32GB In Band ICC (LPDDR5x)
CPU	Intel® Core™ i5-1345URE 12 MB cache Intel® Core™ i7-1365URE 12 MB cache (13 gen)	Mounting Types	Chest Mount / 4 Point Harness / Vehicle Mounting



Getac X600

The Getac X600 is a fully rugged, high-performance laptop designed for commanding Quantum Systems' Family of Systems in the most demanding environments. Featuring a large sunlight-readable display, Intel® Core™ processing power, and expansive connectivity options, it delivers seamless control of unmanned platforms in real time.

Operating System	Windows 11 Pro	Weight	9.72 lbs / 4.41 kg
Display	Intel® UHD Graphics	Dimensions	16.22 x 12.68 x 2.07 in / 412 x 322 x 52.5 mm
Graphics	AC adapter (150W, 100-240VAC, 50/60Hz)	Memory	16GB DDR4 Optional: 32GB / 64GB / 128GB
CPU	Intel® Core™ i5-11500HE vPro® Processor / AC adapter	Power	Battery (10.8V, 6900mAh; min. 6600mAh) x2





© 2025 Quantum-Systems Inc. All rights reserved. Subject to changes and errors.
Quantum-Systems Inc. | 11943 Discovery Ct. | Moorpark, CA 93021 | USA

1st Edition, March 2025
quantum-systems.com/us