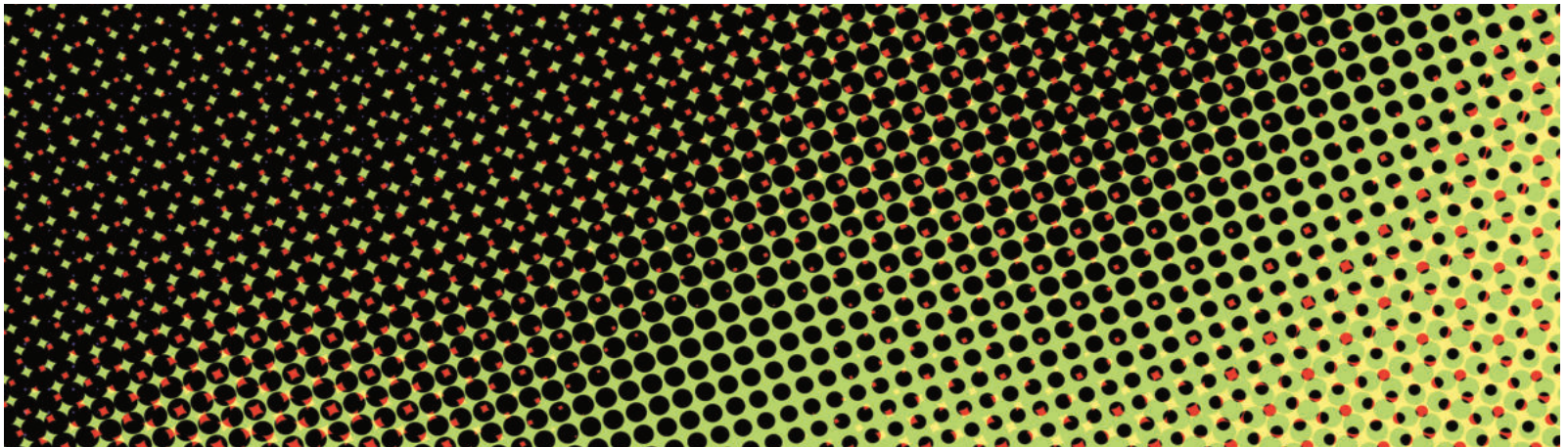


# Aerial intelligence when it matters.



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**QUANTUM  
SYSTEMS**



## Company Profile

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Founded in Munich in 2015, Quantum Systems has become one of the leading providers of aerial intelligence solutions. With the perfect blend of hardware, software and AI, the company is revolutionizing decision-making processes.

Quantum Systems is dedicated to delivering **high-quality aerial data** to commercial clients as well as government and defense organizations, setting new standards in the industry.

## Our Mission

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Quantum Systems commits to **enhancing decision-making processes** by offering real-time aerial data and consistently pushing the technological limits of aerial reconnaissance.

Our multi-sensor drones cater to both government agencies and commercial customers. This distinctive dual-use position allows us to leverage the rapid advancements in the commercial market for the benefit of the defense industry.

## Our Vision

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We want to fully automate data collection processes and emerge as the forefront provider of AI-powered real-time aerial intelligence. With a family of systems approach, we are consistently working on refining the synergy between hardware and software technologies. We invest in artificial intelligence, edge comput-

ing and robotics to enable users to carry out highly complex operations with just one. To facilitate **on-demand and remote access to aerial data** and real-time analysis, we are developing an automated network of "Nexus robotized arms."

## Our Values

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Our products are made in Germany and Europe, built on a reliable ITAR – Free supply chain to be a trustworthy partner at all times. "**Aerial intelligence when it matters**" is the fuel of our daily work at Quantum Systems and drives the priorities we set to ourselves. This is reflected by our early involvement in Ukraine and has resulted in the enhancement of our systems through

frontline deployment, **operator-focused updates** and achieving proven battlefield capability. With a first-class team and over a decade of experience in the fields of drones, robotics, and imaging, we have a proven technological foundation and a strong track record in building top-tier UAS (Unmanned Aerial Systems).

# Deep Vertical Technology Integration

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## Hardware, Software and AI

Our portfolio is the perfect marriage of Hardware, Software and AI – developed and manufactured **in-house from end-to-end**. To ensure optimal interplay between our components and subsystems, we have **vertically integrated** our technology stack. Like other category-defining tech companies, we develop the hardware, control

software and AI systems for sensing, navigation, object recognition etc. in house. Our platform supports seamless interoperability across our family of systems and third-party manufacturers, increasingly autonomous operation and continuous capability updates to fully support every customer and use case.

# Family of Systems

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## A solution for every requirement

Our eVTOL systems are characterized by industry-leading flight times, ease of operation, reliability, and state-of-the-art technology.



### Twister

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Short-Range Reconnaissance  
3.8 kg / 1.25 m / 90+ min / 15+ km  
Available



### Vector AI

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Mid-Range Reconnaissance  
9.5 kg / 2.8 m / 180+ min / 60+ km  
Available



### Reliant

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Long-Range Reconnaissance  
33 kg / 3.4 m / 10+ h / 100 km  
Available: 2025



### Trinity Tactical

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Mapping Drone  
5.75 kg / 2.4 m / 90 min / 7.5 km  
Available



### Nexus

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Stand alone  
Stationary use  
Available: 2025

UGV - UAV  
Mobile use  
Available: 2025



Vehicle - UAV  
Mobile use  
Available: 2025

Naval - UAV  
Mobile use  
Available: 2026

# Innovation & Integration

Quantum Systems combines the **best-in-class hardware** with **cutting-edge software**, to set new standards in avionics and revolutionize aerial reconnaissance. Combat-proven and reliable under extreme conditions, including in GNSS-denied environments, our drones shield democracy on the Ukrainian front. Quantum Systems solutions expand in a family of systems logic and seamlessly integrate with Battle Management

Systems such as ATAK, Sitaware, Kropyvara, Facnav and Delta guaranteeing armed forces access to the full range of aerial reconnaissance capabilities to support decision-making and dominate the battlefield. Our modular technology and R&D roadmap benefit from experienced end-users' direct feedback, allowing us to continuously adapt and meet the highest demands in record time.

# Receptor AI: Our Onboard Software Suite

## Onboard Intelligence for Autonomous Operations

All our systems are equipped with an NVIDIA Orin chip and our Receptor AI suite to enable high automation on the edge, even when jammed, operating without datalink or in GNSS-denied environ-

ments. This is the basis for swarm operations and allows AI-functionality updates to be rolled out concurrently across all UAS. Receptor AI provides functionality in three pillars:

### Operator Usability

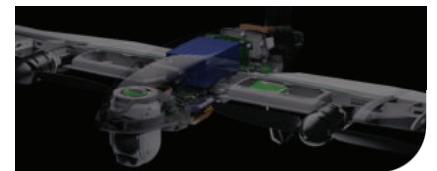
When controlling the UAV, Receptor AI offers sensor stabilization, tracking, optimized video encoding and geolock.

### Aircraft Support

Receptor AI supports precise landing through visual tracking as well as GNSS-denied, sensor-based navigation.

### Autonomy

Full autonomy is enabled through object detection, obstacle avoidance, and intra-drone swarming communication.



# MOSAIC UXS

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## What is MOSAIC UXS?

MOSAIC UXS delivers real-time, scalable mission control across air, land, and sea by seamlessly integrating unmanned systems into one operational ecosystem. This unmanned layer empowers faster and smarter decision-making with clarity, control, and confidence, even in the most complex environments. By bridging unmanned assets with existing command systems, MOSAIC UXS combines intuitive control, AI-powered data fusion, and open interfaces into a resilient, future-ready mission platform.

### 360° Link

MOSAIC UXS is connected to all BMS (Battle Management Systems), MGCS (Main Ground Combat Systems), and FCAS (Future Combat Air Systems), ensuring seamless interoperability between all layers of the battlefield.

### Open, Modular System

MOSAIC UXS offers open interfaces for seamless integration of third-party unmanned systems across air, land, and sea, as well as modular AI algorithms. This significantly reduces system complexity and training efforts, because operators can use one interface across all domains and mission scales.

### Sensor Data Fusion

MOSAIC UXS merges data from various sensors, sources, and systems into a unified stream. It reduces the operator's cognitive load by keeping them focused on mission-critical information while maintaining access to the full spectrum of battlefield data.

### Scalable Command for Every Mission Layer

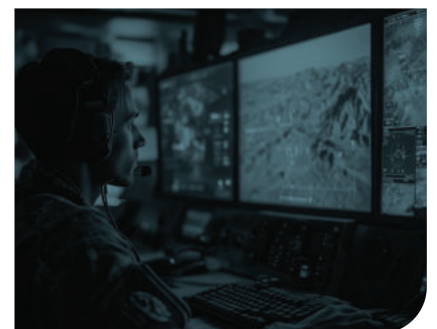
Operate a single unmanned system on the front lines with a compact, rugged smartphone, or command entire teams and swarms from a control room with multiple screens. The same software powers all levels of command, enabling seamless transitions from 1:1-piloting to full swarm orchestration.

### AI-Powered Mission Planning and Execution

MOSAIC UXS supports AI-driven planning and evaluation throughout the entire mission lifecycle. It creates a 3D digital clone of the mission area and translates high-level mission objectives into precise commands for each unmanned unit's autopilot, empowering every decision with real-time intelligence.

### Multi-Domain by Design

MOSAIC enables the seamless orchestration of unmanned systems across air, ground, and sea. From ISR drones, to ground vehicles, to integrated ground sensorics, and maritime drones — MOSAIC connects them all. The system is open to collaboration and integration with future platforms and partners.



# Deliver Support Integrate

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We offer solutions that can adjust to the customers' evolving needs. Our systems are designed with an open architecture for future capability integration, and our approach focuses on creating a local and enduring impact.

We've learned that meeting our customers' needs goes beyond delivering cutting-edge systems; it involves staying connected with the customer throughout the entire lifespan of our products. Moreover, we believe that we only remain on the **forefront of technological sophistication** when we listen to our customers and integrate new capabilities due to operative needs but also cooperate with other innovators and technological leaders in the field of aerial intelligence and defense technology.

**Our approach to satisfy our customers' needs is to deliver solutions, support holistically and integrate new capabilities, cooperations and production elements.**

## 01 Deliver

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We believe that delivery is about more than the physical handover of systems - it is about **providing trust** and transparency from the very first interaction. Our approach starts long before the contract is signed: through live demonstrations, in-depth discussions and honest assess-

ments of capabilities and development roadmaps. We see every touchpoint as an opportunity to build mutual understanding. Once engaged, we commit to reliable, on-time delivery of tailored solutions that reflect our customers' unique mission requirements.



## 02 Support

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Sustainable success requires proximity and partnership. That's why our support model prioritizes the establishment of **local service centers** that go beyond technical support. These centers become an extension of our global team, providing local training, maintenance, and

operational guidance. By embedding ourselves locally, we ensure faster response times and actively participate in fostering regional ecosystem growth. Our support is not a one-time service, but an ongoing commitment to operational excellence.

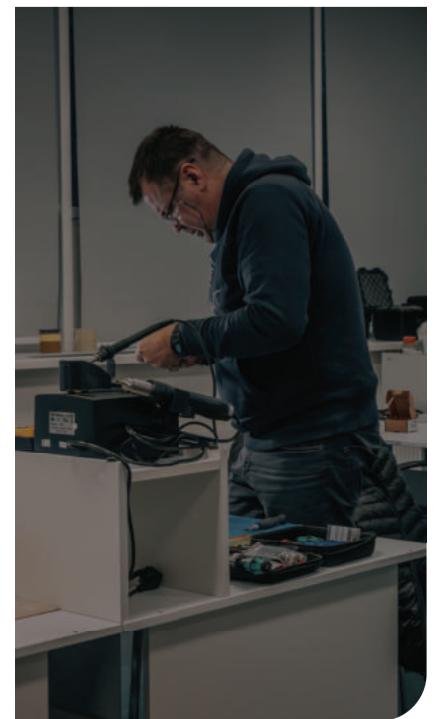
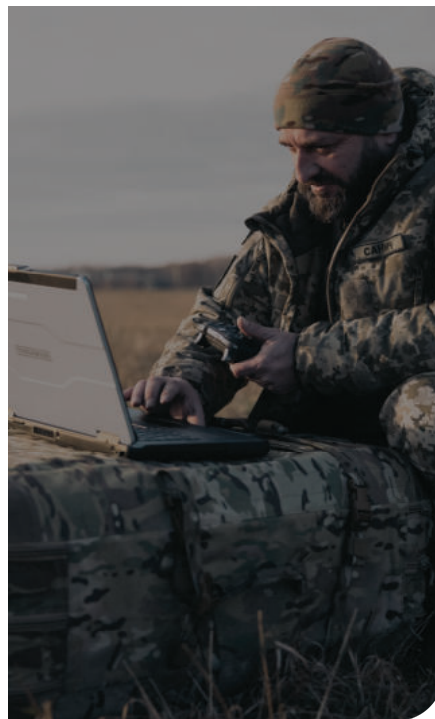
# 03 Integrate

We integrate our clients' needs into our capability roadmap from the project's inception. Our solutions are customized to meet your specific requirements, incorporating military training concepts, logistical and maintenance frameworks, Battle Management Systems, and ensuring compliance with all necessary certifications.

Through **close collaboration** between our engineers and local users, we gather valuable operational feedback to continuously improve our solutions and

ensure they evolve in parallel with our customers' operational environments.

A key pillar of our integration approach is leveraging local partners to build in-country production capabilities and **strengthen regional supply chains**. This approach not only expands our global network but also supports the customer's industrial growth and sovereignty. Additionally, we ensure interoperability with allied systems, future-proofing our solutions for joint operations and evolving mission needs.



## The Ukrainian Model

This approach has proven successful in Ukraine. Quantum-Systems GmbH is the only Western UAV manufacturer with a presence in Ukraine. Since 2023, we have established our **Service-Training-Support and Logistics (SSTLC)** Center which has enabled us to provide first-hand technical support while gaining experienced end-users' direct feedback for continuous adaptation of our solutions.

In the beginning of 2024, we have opened a production plant to secure future deliveries, meet the demand for spare parts and further strengthen our R&D cooperation with the General Staff of Ukraine. Thanks to these investments, Quantum Systems is already able to double its production capacity in Ukraine after one year.



Deliver



Support



Integrate

# What's Next?

The nature of the battlefield is evolving, with a shift towards autonomy shaping its future.

*"Drones are a key capability that must be taken into account in order to increase the effectiveness and assertiveness of modern armed forces."  
(General Carsten Breuer, Inspector General of the Bundeswehr)*

Advancements in military technology increasingly rely on user-friendly engineering and computing rather than traditional tank and aircraft design.

Drawing on our insights from Ukraine and our expertise in drone technology, we are ready to transform aerial intelligence for our clients.

## Customers

### MoD



**MANATŪ KAUPAPA WAONGA**  
NEW ZEALAND  
MINISTRY OF DEFENCE



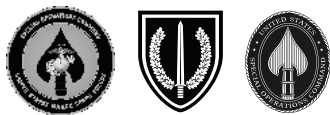
**Australian Government**  
Defence



Ministerie van Defensie



### Special Forces



### Police Forces



Bundesministerium  
des Innern  
und für Heimat

Homeland  
Security

## Global Presence

