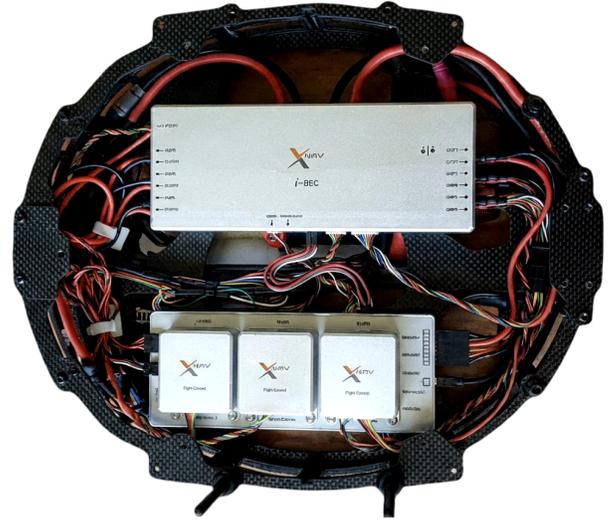


xNav™ AI Platform

Autonomous flight control ecosystem.

xNav™ is Kaizen™ Aerospace's proprietary autonomous flight control ecosystem, designed to power heavy-lift UAVs across defense, industrial, and emergency response missions. Built as a fully modular system, xNav™ consists of three integrated components – xNav™ GS (Ground Station), xNav™ Air (Onboard System), and xNav™ AI (Autonomy Engine) – delivering unmatched situational awareness, reliability, and control. The ground station provides real-time fleet management, mission planning, and telemetry visualization, while the onboard system handles redundant flight control with integrated sensor fusion across GPS, LiDAR, and computer vision inputs. The AI engine enables fully autonomous mission execution, dynamic obstacle avoidance, and collaborative swarm operations, continuously learning and adapting from operational data to improve performance across successive deployments. xNav serves as the common autonomy backbone across the entire xFold platform family, providing a unified software ecosystem that reduces training requirements and simplifies fleet-wide maintenance and upgrades.



TECHNICAL SPECIFICATIONS

XNAV™ GS	Mission planning, fleet management, real-time telemetry, payload management, mission re-tasking
XNAV™ AIR	Redundant flight control, integrated sensor fusion (GPS, LiDAR, vision), modular payload control, power management
XNAV™ AI	Adaptive AI for autonomous execution, object avoidance, dynamic rerouting, collaborative swarm logic, data-driven learning
SYSTEM SUPPORT	BVLOS, swarm, and hybrid system support
ENDURANCE	Scalable with battery, hybrid, or tethered power
SECURITY	Encrypted communications, modular architecture
APPLICATIONS	Fire response, cargo transport, defense operations, industrial inspection