

NIVO V7 PRO

Industrial Drone for Professional Aerial Surveying

NIVO V7 PRO is a professional VTOL (vertical take-off and landing) fixed-wing aircraft designed for surveying, corridor mapping, inspection, and public-safety missions in areas with limited runway space. It can take off and land vertically like a multicopter, then transition into efficient fixed-wing flight for longer coverage and extended missions.

Built with composite EPO reinforced by carbon fiber and aviation-grade aluminum, the airframe provides strong rigidity, reduced vibration, and stable performance even in Level 5 wind conditions. With a maximum payload of 5.0 kg, up to 230 minutes of endurance, and a flight range of 290 km, the Pioneer 3200mm delivers reliable long-range performance. It also supports dual RTK mounting and features a large battery bay with quick-release design for efficient field operations.

Key Features

Durable and Reinforced Airframe

Built with composite EPO reinforced by carbon fiber (CFRP) and aviation-grade aluminum, the NIVO V7 Pro offers strong structural rigidity, reduced vibration, and stable performance even in Level 5 wind conditions, ensuring reliable operation in demanding environments.

Efficient VTOL & Fixed-Wing Transition

Equipped with vertical take-off and landing capability, the NIVO V7 Pro can operate in confined areas without a runway, then seamlessly transition into efficient fixed-wing cruise flight for long-distance missions up to 290 km.

High Payload Capacity

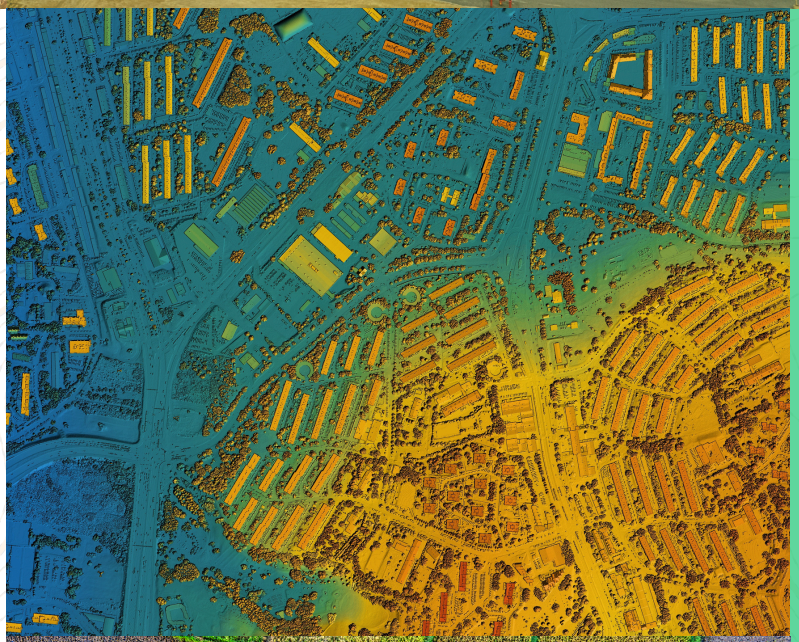
With a maximum payload capacity of 5.0 kg, the NIVO V7 Pro supports integration of professional mapping, inspection, and surveillance sensors, providing flexibility for various mission requirements.

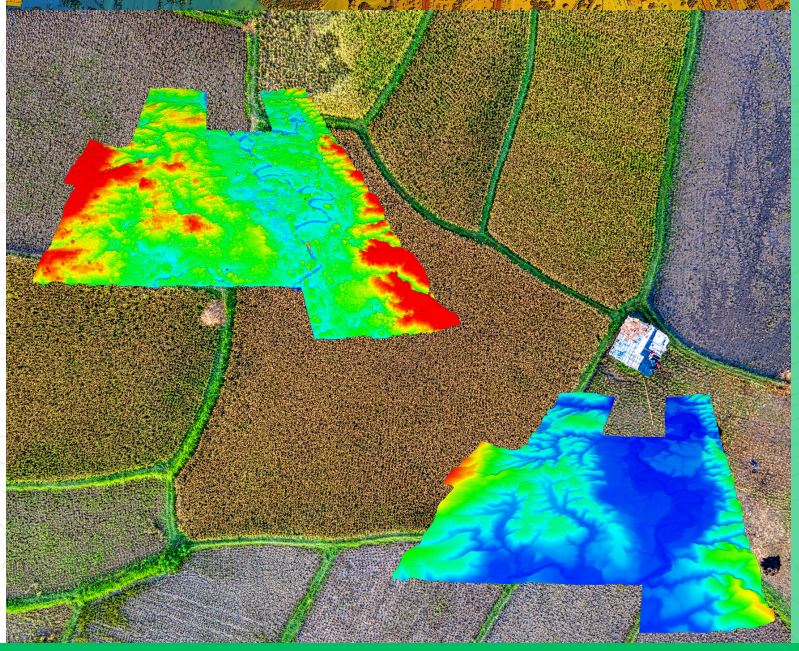
Long-Endurance Performance

Powered by a large battery bay optimized for 4× 6S 30000mAh batteries, the NIVO V7 Pro delivers up to 230 minutes of flight time, maximizing coverage and operational productivity.

Professional-Grade Positioning Support

The airframe includes pre-allocated mounting positions for dual RTK systems, enabling enhanced positioning accuracy and reliable data collection for surveying and mapping applications.





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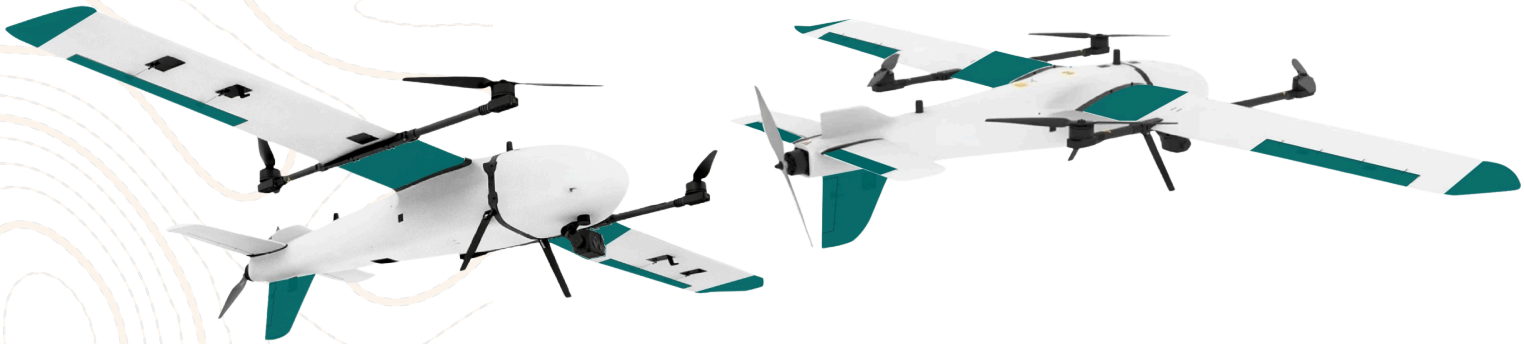
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Industrial Drone Mapping NiVO V7 PRO

NIVO V7 PRO is a professional VTOL (Vertical Take-Off and Landing) fixed-wing drone designed for surveying, corridor mapping, infrastructure inspection, and public-safety missions in areas with limited runway space. It enables vertical takeoff and landing for rapid deployment, then transitions smoothly into efficient fixed-wing cruise flight for long-range operations. Built with reinforced composite materials, it ensures stable and reliable data collection even in challenging wind conditions.

Technical Specification



Body	Wingspan	3200 mm
	Structural Material	Composite EPO with CFRP (Carbon Fiber Reinforcement)
	Frame Support	Aviation-Grade Aluminum
	Design	Tool-Free Assembly
Unit Performance	Max Endurance	230 Minutes
	Max Payload	5.0 kg
	Flight Range	290 km
	Wind Resistance	Level 5
	Flight Mode	VTOL & Fixed-Wing Cruise Transition
Power	Battery Bay Size	340 × 220 × 156 mm
	Battery Configuration	4 × 6S 30000mAh Semi-Solid Batteries
Navigation & Positioning	RTK Support	Dual RTK Pre-Allocated Mounting
	Positioning Capability	Direction-Finding Ready

VTOL TECHNOLOGY

RTK/PPK GNSS POSITIONING

CAMERA/ LIDAR/ THERMAL

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