



AS-VT02K

Type 2 Aircraft Certification (Japan) – Planned



AEROBO[®] wing

Proven Reliability in the Field Japan-Made eVTOL Supporting Social Infrastructure

Building on the trusted AeroBo Wing platform, which has been widely used in social infrastructure inspection, the AS-VT02K offers enhanced operability in the field, optimized for inspection and disaster response.

Versatile Payload Options

Supports a wide range of payloads including still, video, and infrared cameras, meeting the needs of infrastructure inspection and disaster response with flexibility and precision.

Dust & Water Protection and Enhanced Durability and Portability

IP43-rated dust and water resistance allows operation in rainy conditions. The redesigned airframe and compact carrying case enhance mobility and responsiveness in emergency deployments.

Long-Range, Wide-Area, High-Speed Flight

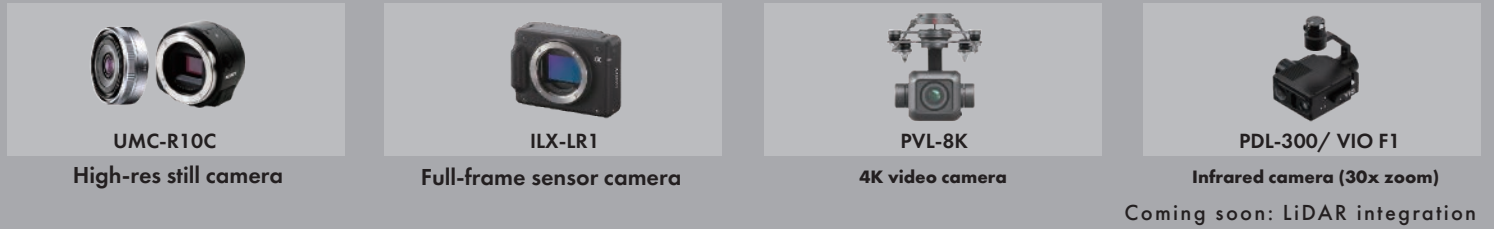
Fully Autonomous Flight by Mission Plan

Vertical Take-Off and Landing in Confined Areas

Versatile Payloads for Diverse Missions

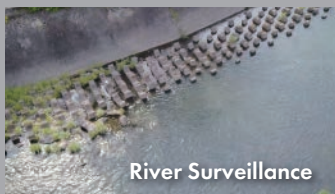
Compatible with a wide range of cameras, including full-frame sensors, high-resolution 4K video, and infrared imaging. Flexible for various missions such as infrastructure inspection and disaster assessment.

Available Payloads (Optional)



Applications - Ideal for Long-Range Surveys & Patrols-

Developed as Japan's first VTOL drone, AeroSense Wing has built a proven track record in infrastructure inspection and disaster response. The AS-VT02K continues this legacy with enhanced capabilities for a wide range of real-world missions.



Product Specifications

Model	AS-VT02K	Safety	- LED Nav Lights (Red / Green / White) - Auto Multicopter Mode (Emergency) ** - Manual Multicopter Mode (One-Touch) - Auto Return (Signal Loss / Low Battery) - Auto Landing (GPS Error / Low Battery)
Dimensions	2.1 × 1.2 × 0.4 m (excluding propellers)	Flight Control	Autonomous flight via pre-defined mission plans
Weight	10 kg (with battery)	Sensors	IMU, Downward Range Sensor, Airspeed Sensor, Barometric Sensor
Max Takeoff Weight	11.6 kg	Dust & Water Resistance	IP43
Payload Capacity	1.6 kg	Flight Controller	AeroSense Flight Controller
Power	2 × 6S LiPo batteries	GCS (Ground Control Station)	AeroSense "Aerobo Station"
Flight Time	Up to 59 minutes	LTE Communication Module	Built-in
Max Range	70 km	Data Storage	SD card (when using still camera R10C)
Max Speed	100 km/h	Carrying Case Size	(1) 1.1 m × 0.9 m × 0.5 m (including protrusions) (2) 1.3 m × 0.3 m × 0.3 m (including protrusions)
Cruising Speed	72 km/h	Certification	Type 2 Aircraft Certification (Japan) – Planned
Wind Resistance	Up to 10 m/s (fixed-wing mode) *	Country of Manufacture	Japan
Operating Temp.	-10°C to 40°C (excluding battery)		
GNSS	Dual-band (GPS, GLONASS, Galileo, BeiDou, QZSS / L1, L2)		
Comms	2.4GHz, LTE		
2.4GHz Range	1,500m (standard) 5,000m (high-power)		
FPV Cameras	Dual (front and downward facing)		

* Wind resistance value applies during fixed-wing flight under headwind conditions.

** Automatically transitions to multicopter mode when the aircraft's attitude becomes unstable or altitude drops critically.

※ Operation of this product must comply with local laws and regulations, including aviation and communication requirements.

※ Product specifications and appearance are subject to change without notice.

※ Performance may vary depending on usage and environment.

※ This product is for professional use only.

※ The manufacturer assumes no responsibility for issues caused by misuse or unauthorized modifications.

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