Electric Brushless Motor M.09 VTOL Fixed-Wing Electric Mapping UAV 1301mm Wingspan 3.3kg Payload 1159m Ceiling

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, RoHS
- Model Number: M.09
- Minimum Order Quantity: 1
- Price: $3,000-$25,000
- Packaging Details: Custom flight case with shock-absorbing foam inserts and waterproof seal
- Delivery Time: 22 working days
- Payment Terms: L/C
- Supply Ability: 100

Product Specification

- Model: M.09
- Wingspan: 1301 Mm
- Length: 1267 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Electric Brushless Motor
- Payload: 3.3 Kg
- Take-off Mass: 6.8 Kg
- Cruise Speed: 15 M/s
- Endurance: 67 Min
- Max Range: 111 Km
- Altitude: 1159 M
- Protection Degree: IP54
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 6 / Cruising Level 5
- Launch Method: Rocket-Assisted Launch

Product Description

M.09 Electric Mapping UAV

The **M.09** is a high-performance electric brushless motor-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Precision Agriculture**. Featuring a 1301mm wingspan and 3.3kg payload capacity, this UAV delivers exceptional 67-minute endurance and 111km operational range. The entire airframe is constructed from **aviation-grade carbon fiber composite**, ensuring an optimal balance of structural strength and lightweight portability.

Equipped with an advanced flight control system and modular payload architecture, the M.09 supports rapid mission reconfiguration. Its VTOL capability eliminates the need for runways, enabling deployment from confined spaces. The IP54 protection rating ensures reliable operation in challenging environmental conditions.

Key Features

Advanced VTOL Capability – Vertical takeoff and landing without runway infrastructure, deployable from ships, rooftops, or compact terrain

Full Carbon Fiber Airframe – Aerospace-grade composite construction for 4.8kg lightweight design with industry-leading strength-to-weight ratio

Electric Brushless Motor Power System – Optimized for 67min continuous flight with efficient fuel/energy management and redundant safety protocols

3.3kg Payload Capacity – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

111km Operational Range – Beyond-line-of-sight capability with secure datalink and autonomous return-to-home fail-safe

IP54 Environmental Protection – Reliable operation in rain, dust, and extreme temperatures from -20°C to 50°C

Specifications

Model	M.09
Wingspan	1301 mm
Length	1267 mm
Airframe Material	Aviation Carbon Fiber Composite
Engine	Electric Brushless Motor
Payload	3.3 kg
Maximum Takeoff Weight	6.8 kg
Cruise Speed	15 m/s
Endurance	67 min

Max Range	111 km
Service Ceiling	1159 m
Protection Degree	IP54
Launch Method	Rocket-Assisted Launch

FAQ

▼ **What missions is the M.09 best suited for?**

The M.09 is optimized for **Precision Agriculture** operations, with its 3.3kg payload and 111km range making it ideal for extended-duration missions requiring reliable beyond-line-of-sight communication.

▼ **Can the payload configuration be customized?**

Yes, the modular payload bay supports rapid swapping between EO/IR gimbals, LiDAR scanners, multispectral cameras, SAR systems, and communication relay equipment based on mission requirements.

▼ **How does the VTOL transition work?**

The M.09 uses a seamless transition flight controller that automatically manages the conversion from vertical hover to fixed-wing cruise flight, requiring no manual pilot intervention during transition.

▼ **What training is required to operate this UAV?**

Basic operator training typically takes 3-5 days, covering mission planning, pre-flight checks, emergency procedures, and data post-processing. Advanced payload operation training is available separately.

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