Electric Brushless Motor M.07 VTOL Fixed-Wing Electric Mapping UAV 1328mm Wingspan 2.5kg Payload 2576m Ceiling

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, RoHS
- Model Number: M.07
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Aviation-grade protective foam case with reinforced aluminum outer shell
- Delivery Time: 59 working days
- Payment Terms: L/C
- Supply Ability: 50

Product Specification

- Model: M.07
- Wingspan: 1328 Mm
- Length: 1657 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Electric Brushless Motor
- Payload: 2.5 Kg
- Take-off Mass: 19.8 Kg
- Cruise Speed: 21 M/s
- Endurance: 164 Min
- Max Range: 83 Km
- Altitude: 2576 M
- Protection Degree: IP54
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 4 / Cruising Level 6
- Launch Method: VTOL Vertical Take-off

Product Description

M.07 Electric Mapping UAV

The **M.07** is a high-performance electric brushless motor-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **3D Modeling**. Featuring a 1328mm wingspan and 2.5kg payload capacity, this UAV delivers exceptional 164-minute endurance and 83km 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.07 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 13.9kg lightweight design with industry-leading strength-to-weight ratio

Electric Brushless Motor Power System – Optimized for 164min continuous flight with efficient fuel/energy management and redundant safety protocols

2.5kg Payload Capacity – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

83km 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.07
Wingspan	1328 mm
Length	1657 mm
Airframe Material	Aviation Carbon Fiber Composite
Engine	Electric Brushless Motor
Payload	2.5 kg
Maximum Takeoff Weight	19.8 kg
Cruise Speed	21 m/s
Endurance	164 min

Max Range	83 km
Service Ceiling	2576 m
Protection Degree	IP54
Launch Method	VTOL Vertical Take-off

FAQ

▼ **What missions is the M.07 best suited for?**

The M.07 is optimized for **3D Modeling** operations, with its 2.5kg payload and 83km 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.07 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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