

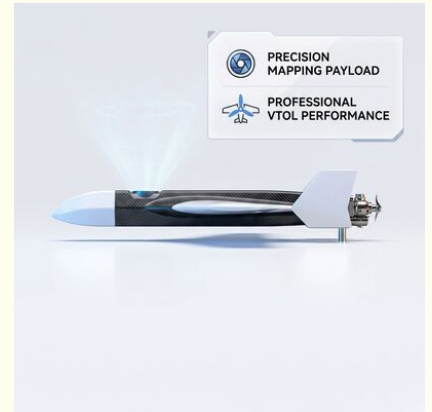


## Electric Brushless Motor M.03 VTOL Fixed-Wing Electric Mapping UAV 1873mm Wingspan 4.6kg Payload 2175m Ceiling

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, RoHS
- Model Number: M.03
- Minimum Order Quantity: 2
- Price: Negotiable
- Packaging Details: Military-standard transport case with pressure equalization valve
- Delivery Time: 40 working days
- Payment Terms: T/T
- Supply Ability: 100



### Product Specification

- Model: M.03
- Wingspan: 1873 Mm
- Length: 1289 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Electric Brushless Motor
- Payload: 4.6 Kg
- Take-off Mass: 21.8 Kg
- Cruise Speed: 27 M/s
- Endurance: 171 Min
- Max Range: 130 Km
- Altitude: 2175 M
- Protection Degree: IP54
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 5 / Cruising Level 6
- Launch Method: Rocket-Assisted Launch

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## M.03 Electric Mapping UAV

The **M.03** is a high-performance electric brushless motor-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Land Survey**. Featuring a 1873mm wingspan and 4.6kg payload capacity, this UAV delivers exceptional 171-minute endurance and 130km 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.03 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 15.3kg lightweight design with industry-leading strength-to-weight ratio

**Electric Brushless Motor Power System** – Optimized for 171min continuous flight with efficient fuel/energy management and redundant safety protocols

**4.6kg Payload Capacity** – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

**130km 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

<b>Model</b>	M.03
<b>Wingspan</b>	1873 mm
<b>Length</b>	1289 mm
<b>Airframe Material</b>	Aviation Carbon Fiber Composite
<b>Engine</b>	Electric Brushless Motor
<b>Payload</b>	4.6 kg
<b>Maximum Takeoff Weight</b>	21.8 kg
<b>Cruise Speed</b>	27 m/s
<b>Endurance</b>	171 min

<b>Max Range</b>	130 km
<b>Service Ceiling</b>	2175 m
<b>Protection Degree</b>	IP54
<b>Launch Method</b>	Rocket-Assisted Launch

## FAQ

### ▼ What missions is the M.03 best suited for?

The M.03 is optimized for **Land Survey** operations, with its 4.6kg payload and 130km 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.03 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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