

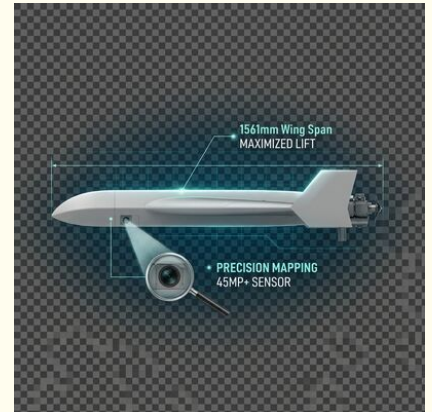


## Electric Brushless Motor M.04 VTOL Fixed-Wing Electric Mapping UAV 1561mm Wingspan 3.0kg Payload 2671m Ceiling

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, RoHS
- Model Number: M.04
- Minimum Order Quantity: 2
- Price: \$3,000-\$25,000
- Packaging Details: Custom flight case with shock-absorbing foam inserts and waterproof seal
- Delivery Time: 25 working days
- Payment Terms: L/C
- Supply Ability: 50



### Product Specification

- Model: M.04
- Wingspan: 1561 Mm
- Length: 887 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Electric Brushless Motor
- Payload: 3.0 Kg
- Take-off Mass: 6.7 Kg
- Cruise Speed: 18 M/s
- Endurance: 92 Min
- Max Range: 49 Km
- Altitude: 2671 M
- Protection Degree: IP54
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 4 / Cruising Level 5
- Launch Method: VTOL Vertical Take-off

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## M.04 Electric Mapping UAV

The **M.04** is a high-performance electric brushless motor-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Urban Planning**. Featuring a 1561mm wingspan and 3.0kg payload capacity, this UAV delivers exceptional 92-minute endurance and 49km 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.04 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 4.7kg lightweight design with industry-leading strength-to-weight ratio

**Electric Brushless Motor Power System** – Optimized for 92min continuous flight with efficient fuel/energy management and redundant safety protocols

**3.0kg Payload Capacity** – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

**49km 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.04
<b>Wingspan</b>	1561 mm
<b>Length</b>	887 mm
<b>Airframe Material</b>	Aviation Carbon Fiber Composite
<b>Engine</b>	Electric Brushless Motor
<b>Payload</b>	3.0 kg
<b>Maximum Takeoff Weight</b>	6.7 kg
<b>Cruise Speed</b>	18 m/s
<b>Endurance</b>	92 min

<b>Max Range</b>	49 km
<b>Service Ceiling</b>	2671 m
<b>Protection Degree</b>	IP54
<b>Launch Method</b>	VTOL Vertical Take-off

## FAQ

### ▼ What missions is the M.04 best suited for?

The M.04 is optimized for **Urban Planning** operations, with its 3.0kg payload and 49km 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.04 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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