

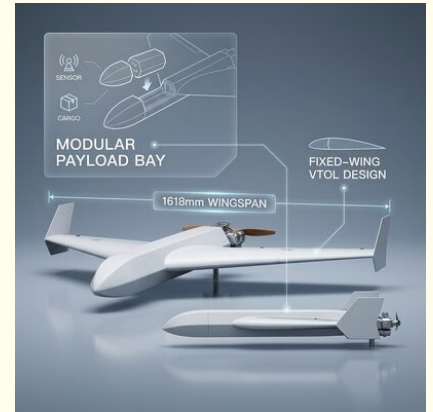


## Electric / Hybrid S.09 VTOL Fixed-Wing Special Mission VTOL UAV 1618mm Wingspan 19.6kg Payload 5138m Ceiling

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, RoHS, ISO
- Model Number: S.09
- Minimum Order Quantity: 2
- Price: \$15,000-\$120,000
- Packaging Details: Aviation-grade protective foam case with reinforced aluminum outer shell
- Delivery Time: 58 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 30



### Product Specification

- Model: S.09
- Wingspan: 1618 Mm
- Length: 2029 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Electric / Hybrid
- Payload: 19.6 Kg
- Take-off Mass: 59.1 Kg
- Cruise Speed: 39 M/s
- Endurance: 245 Min
- Max Range: 351 Km
- Altitude: 5138 M
- Protection Degree: IP65
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 6 / Cruising Level 5
- Launch Method: Runway Take-off

for more products please visit us on [uav-vtoldrone.com](http://uav-vtoldrone.com)

## S.09 Special Mission VTOL UAV

The **S.09** is a high-performance electric / hybrid-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Anti-Poaching**. Featuring a 1618mm wingspan and 19.6kg payload capacity, this UAV delivers exceptional 245-minute endurance and 351km 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 S.09 supports rapid mission reconfiguration. Its VTOL capability eliminates the need for runways, enabling deployment from confined spaces. The IP65 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 41.4kg lightweight design with industry-leading strength-to-weight ratio

**Electric / Hybrid Power System** – Optimized for 245min continuous flight with efficient fuel/energy management and redundant safety protocols

**19.6kg Payload Capacity** – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

**351km Operational Range** – Beyond-line-of-sight capability with secure datalink and autonomous return-to-home fail-safe

**IP65 Environmental Protection** – Reliable operation in rain, dust, and extreme temperatures from -20°C to 50°C

## Specifications

<b>Model</b>	S.09
<b>Wingspan</b>	1618 mm
<b>Length</b>	2029 mm
<b>Airframe Material</b>	Aviation Carbon Fiber Composite
<b>Engine</b>	Electric / Hybrid
<b>Payload</b>	19.6 kg
<b>Maximum Takeoff Weight</b>	59.1 kg
<b>Cruise Speed</b>	39 m/s
<b>Endurance</b>	245 min

<b>Max Range</b>	351 km
<b>Service Ceiling</b>	5138 m
<b>Protection Degree</b>	IP65
<b>Launch Method</b>	Runway Take-off

## FAQ

### ▼ What missions is the S.09 best suited for?

The S.09 is optimized for **Anti-Poaching** operations, with its 19.6kg payload and 351km 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 S.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.



**Guangzhou Gesai Intelligent Electronic Technology Co., Ltd.**



[Kellyyangjing2021@outlook.com](mailto:Kellyyangjing2021@outlook.com)



[uav-vtoldrone.com](http://uav-vtoldrone.com)

Fuli Yingtong Building, the Pearl River New Town, Tianhe District, Guangzhou, Guangdong, China