



Gasoline Engine E.09 VTOL Fixed-Wing Long-Endurance ISR UAV 4790mm Wingspan 27.2kg Payload 6649m Ceiling

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, FCC, MIL-STD, NATO
- Model Number: E.09
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Military-standard transport case with pressure equalization valve
- Delivery Time: 35 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 30



Product Specification

- Model: E.09
- Wingspan: 4790 Mm
- Length: 2384 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Gasoline Engine
- Payload: 27.2 Kg
- Take-off Mass: 104.8 Kg
- Cruise Speed: 33 M/s
- Endurance: 894 Min
- Max Range: 1493 Km
- Altitude: 6649 M
- Protection Degree: IP67
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 5 / Cruising Level 5
- Launch Method: Catapult Launch

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E.09 Long-Endurance ISR UAV

The **E.09** is a high-performance gasoline engine-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Communication Relay**. Featuring a 4790mm wingspan and 27.2kg payload capacity, this UAV delivers exceptional 894-minute endurance and 1493km 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 E.09 supports rapid mission reconfiguration. Its VTOL capability eliminates the need for runways, enabling deployment from confined spaces. The IP67 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 73.4kg lightweight design with industry-leading strength-to-weight ratio

Gasoline Engine Power System – Optimized for 894min continuous flight with efficient fuel/energy management and redundant safety protocols

27.2kg Payload Capacity – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

1493km Operational Range – Beyond-line-of-sight capability with secure datalink and autonomous return-to-home fail-safe

IP67 Environmental Protection – Reliable operation in rain, dust, and extreme temperatures from -20°C to 50°C

Specifications

Model	E.09
Wingspan	4790 mm
Length	2384 mm
Airframe Material	Aviation Carbon Fiber Composite
Engine	Gasoline Engine
Payload	27.2 kg
Maximum Takeoff Weight	104.8 kg
Cruise Speed	33 m/s
Endurance	894 min

Max Range	1493 km
Service Ceiling	6649 m
Protection Degree	IP67
Launch Method	Catapult Launch

FAQ

▼ What missions is the E.09 best suited for?

The E.09 is optimized for **Communication Relay** operations, with its 27.2kg payload and 1493km 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 E.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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