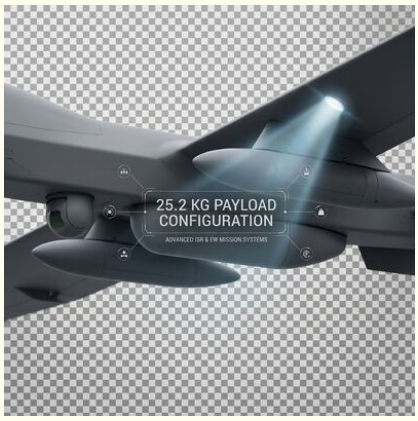
Gasoline Engine E.03 VTOL Fixed-Wing Long-Endurance ISR UAV 4185mm Wingspan 25.2kg Payload 7170m Ceiling

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, FCC, MIL-STD, NATO
- Model Number: E.03
- Minimum Order Quantity: 5
- Price: $80,000-$400,000
- Packaging Details: Custom flight case with shock-absorbing foam inserts and waterproof seal
- Delivery Time: 47 working days
- Payment Terms: T/T, Western Union
- Supply Ability: 30



Product Specification

- Model: E.03
- Wingspan: 4185 Mm
- Length: 3070 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Gasoline Engine
- Payload: 25.2 Kg
- Take-off Mass: 120.8 Kg
- Cruise Speed: 50 M/s
- Endurance: 685 Min
- Max Range: 1915 Km
- Altitude: 7170 M
- Protection Degree: IP67
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 4 / Cruising Level 5
- Launch Method: Runway Take-off

Product Description

E.03 Long-Endurance ISR UAV

The **E.03** is a high-performance gasoline engine-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Electronic Warfare**. Featuring a 4185mm wingspan and 25.2kg payload capacity, this UAV delivers exceptional 685-minute endurance and 1915km 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.03 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 84.6kg lightweight design with industry-leading strength-to-weight ratio

Gasoline Engine Power System – Optimized for 685min continuous flight with efficient fuel/energy management and redundant safety protocols

25.2kg Payload Capacity – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

1915km 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.03
Wingspan	4185 mm
Length	3070 mm
Airframe Material	Aviation Carbon Fiber Composite
Engine	Gasoline Engine
Payload	25.2 kg
Maximum Takeoff Weight	120.8 kg
Cruise Speed	50 m/s
Endurance	685 min

Max Range	1915 km
Service Ceiling	7170 m
Protection Degree	IP67
Launch Method	Runway Take-off

FAQ

▼ **What missions is the E.03 best suited for?**

The E.03 is optimized for **Electronic Warfare** operations, with its 25.2kg payload and 1915km 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.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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