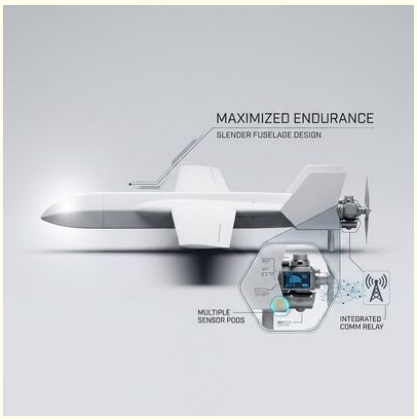
Gasoline Engine E.04 VTOL Fixed-Wing Long-Endurance ISR UAV 3697mm Wingspan 19.6kg Payload 4153m Ceiling

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, FCC, MIL-STD, NATO
- Model Number: E.04
- Minimum Order Quantity: 5
- Price: $80,000-$400,000
- Packaging Details: Custom flight case with shock-absorbing foam inserts and waterproof seal
- Delivery Time: 17 working days
- Payment Terms: T/T, L/C
- Supply Ability: 100



Product Specification

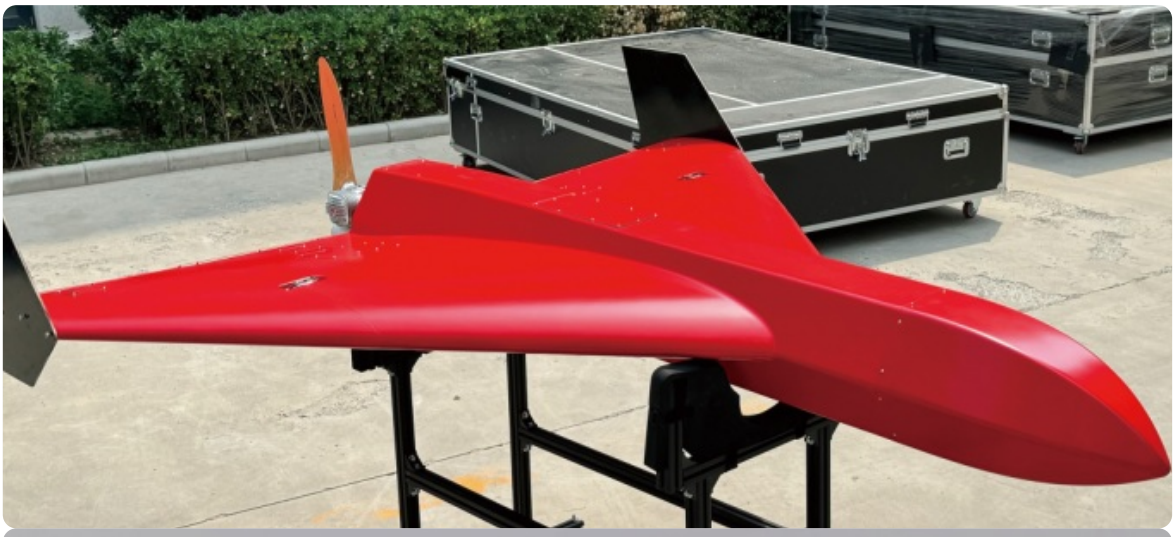
- Model: E.04
- Wingspan: 3697 Mm
- Length: 2904 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Gasoline Engine
- Payload: 19.6 Kg
- Take-off Mass: 82.7 Kg
- Cruise Speed: 32 M/s
- Endurance: 490 Min
- Max Range: 1370 Km
- Altitude: 4153 M
- Protection Degree: IP67
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 6 / Cruising Level 6
- Launch Method: Rocket-Assisted Launch

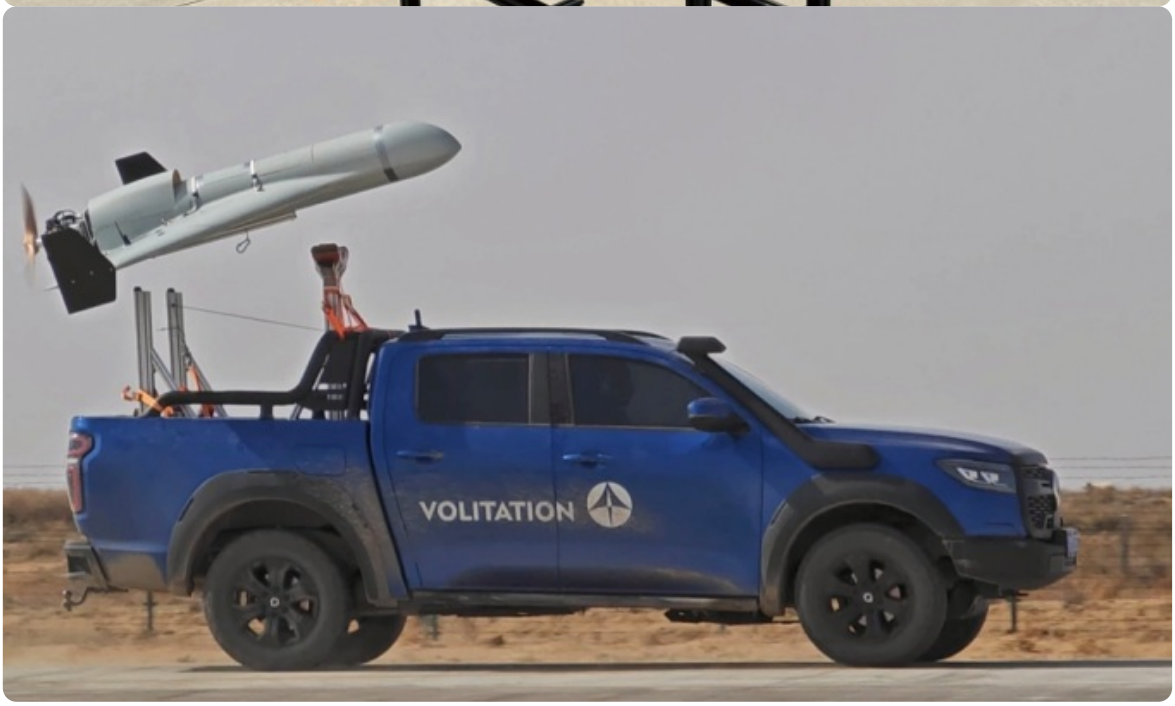
Product Description

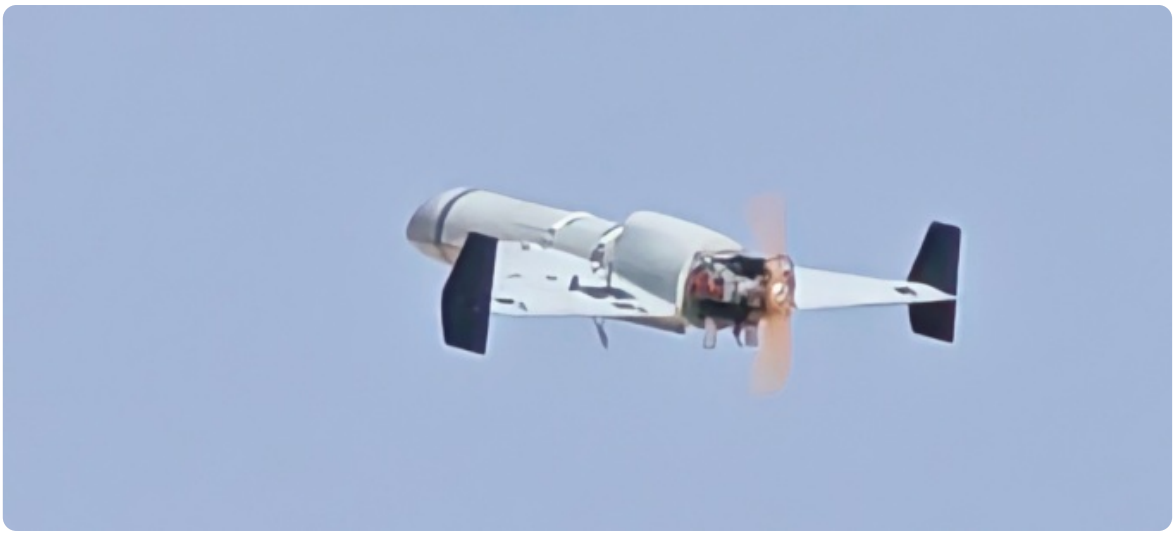
E.04 Long-Endurance ISR UAV

The **E.04** is a high-performance gasoline engine-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Communication Relay**. Featuring a 3697mm wingspan and 19.6kg payload capacity, this UAV delivers exceptional 490-minute endurance and 1370km 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.04 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 57.9kg lightweight design with industry-leading strength-to-weight ratio

Gasoline Engine Power System – Optimized for 490min 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

1370km 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.04
Wingspan	3697 mm
Length	2904 mm
Airframe Material	Aviation Carbon Fiber Composite
Engine	Gasoline Engine
Payload	19.6 kg
Maximum Takeoff Weight	82.7 kg
Cruise Speed	32 m/s
Endurance	490 min

Max Range	1370 km
Service Ceiling	4153 m
Protection Degree	IP67
Launch Method	Rocket-Assisted Launch

FAQ

▼ **What missions is the E.04 best suited for?**

The E.04 is optimized for **Communication Relay** operations, with its 19.6kg payload and 1370km 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.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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