Hybrid Gasoline-Electric H.02 VTOL Fixed-Wing Hybrid Surveillance UAV 3678mm Wingspan 13.3kg Payload 4435m Ceiling

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, FCC, ISO
- Model Number: H.02
- Minimum Order Quantity: 5
- Price: $25,000-$80,000
- Packaging Details: Aviation-grade protective foam case with reinforced aluminum outer shell
- Delivery Time: 22 working days
- Payment Terms: L/C
- Supply Ability: 30

Product Specification

- Model: H.02
- Wingspan: 3678 Mm
- Length: 2329 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Hybrid Gasoline-Electric
- Payload: 13.3 Kg
- Take-off Mass: 65.2 Kg
- Cruise Speed: 45 M/s
- Endurance: 237 Min
- Max Range: 289 Km
- Altitude: 4435 M
- Protection Degree: IP65
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 5 / Cruising Level 5
- Launch Method: Catapult Launch

H.02 Hybrid Surveillance UAV

The **H.02** is a high-performance hybrid gasoline-electric-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Forest Fire Detection**. Featuring a 3678mm wingspan and 13.3kg payload capacity, this UAV delivers exceptional 237-minute endurance and 289km 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 H.02 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 45.6kg lightweight design with industry-leading strength-to-weight ratio

Hybrid Gasoline-Electric Power System – Optimized for 237min continuous flight with efficient fuel/energy management and redundant safety protocols

13.3kg Payload Capacity – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

289km 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

Model	H.02
Wingspan	3678 mm
Length	2329 mm
Airframe Material	Aviation Carbon Fiber Composite
Engine	Hybrid Gasoline-Electric
Payload	13.3 kg
Maximum Takeoff Weight	65.2 kg
Cruise Speed	45 m/s
Endurance	237 min

Max Range	289 km
Service Ceiling	4435 m
Protection Degree	IP65
Launch Method	Catapult Launch

FAQ

▼ **What missions is the H.02 best suited for?**

The H.02 is optimized for **Forest Fire Detection** operations, with its 13.3kg payload and 289km 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 H.02 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 uav-vtoldrone.com

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