

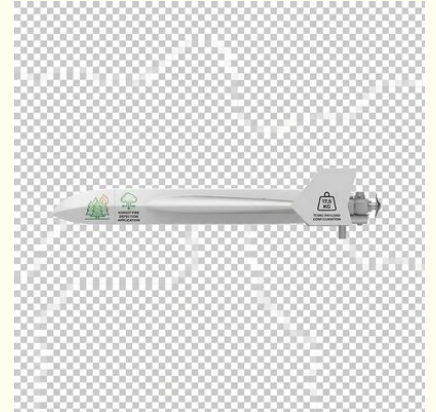


Hybrid Gasoline-Electric H.09 VTOL Fixed-Wing Hybrid Surveillance UAV 3815mm Wingspan 17.5kg Payload 3553m Ceiling

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GS
- Certification: CE, FCC, ISO
- Model Number: H.09
- Minimum Order Quantity: 5
- Price: \$25,000-\$80,000
- Packaging Details: Military-standard transport case with pressure equalization valve
- Delivery Time: 46 working days
- Payment Terms: T/T, L/C
- Supply Ability: 10



Product Specification

- Model: H.09
- Wingspan: 3815 Mm
- Length: 2715 Mm
- Airframe Material: Aviation Carbon Fiber Composite
- Engine: Hybrid Gasoline-Electric
- Payload: 17.5 Kg
- Take-off Mass: 65.5 Kg
- Cruise Speed: 43 M/s
- Endurance: 188 Min
- Max Range: 430 Km
- Altitude: 3553 M
- Protection Degree: IP65
- Temperature: -20°C ~ 50°C
- Wind Resistance: Take-off Level 6 / Cruising Level 7
- Launch Method: Runway Take-off

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H.09 Hybrid Surveillance UAV

The **H.09** is a high-performance hybrid gasoline-electric-powered VTOL fixed-wing unmanned aerial vehicle, engineered for **Forest Fire Detection**. Featuring a 3815mm wingspan and 17.5kg payload capacity, this UAV delivers exceptional 188-minute endurance and 430km 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.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 45.8kg lightweight design with industry-leading strength-to-weight ratio

Hybrid Gasoline-Electric Power System – Optimized for 188min continuous flight with efficient fuel/energy management and redundant safety protocols

17.5kg Payload Capacity – Modular bay accommodates EO/IR cameras, LiDAR, SAR radar, communication relays, and custom mission equipment

430km 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.09
Wingspan	3815 mm
Length	2715 mm
Airframe Material	Aviation Carbon Fiber Composite
Engine	Hybrid Gasoline-Electric
Payload	17.5 kg
Maximum Takeoff Weight	65.5 kg
Cruise Speed	43 m/s
Endurance	188 min

Max Range	430 km
Service Ceiling	3553 m
Protection Degree	IP65
Launch Method	Runway Take-off

FAQ

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

The H.09 is optimized for **Forest Fire Detection** operations, with its 17.5kg payload and 430km 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.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



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