

HCUAV-540

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HCUAV-540 Heavy Duty UAV

The **HCUAV-540 Heavy duty UAV** adopts a hybrid electric power system.

It is a vertical take-off and landing fixed-wing UAV platform with universal mounting capabilities.

It can carry different mission loads to complete normal inspections, 2D/3D aerial surveys, special equipment transportation, etc.

For missions, the platform is capable of fully autonomous flight and can be equipped with missile launching equipment to accurately track and strike targets

Wingspan: 6.4m

Length: 3.7m

Cruising Speed: 126-162 Km/h

Take-off and landing method: VTOL

Collective material: Carbon Fiber

Max Payload: 30Kg

Max Take-off Weight: 140Kg

Max Flight Altitude: 5000m

Max Endurance time: 8 hours

Rain and Dust Protection level: IP54

Estimated Flight Distance: 1000 Km

Power System: LB-275 Power System

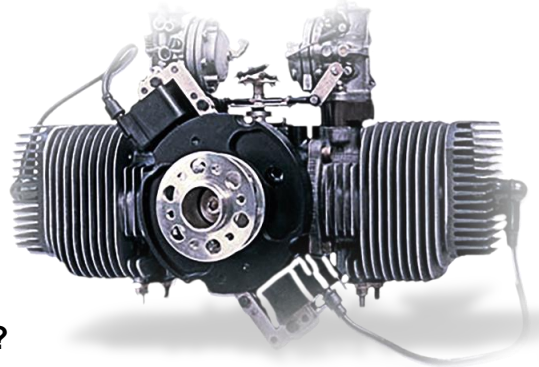
More details:

- High Stability MTBF
- Can Be Equipped with Missile Launchers
- Target Tracking and Strike
- Common Platform Multiple Type Loads



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The LB-275 power system is a dual-cylinder air-cooled aero engine, with super-high power to meet the requirements of the UAV's climbing speed, and to provide a stable power supply for the entire flight mission system.



How far can HCUAV-540 power system fly ?

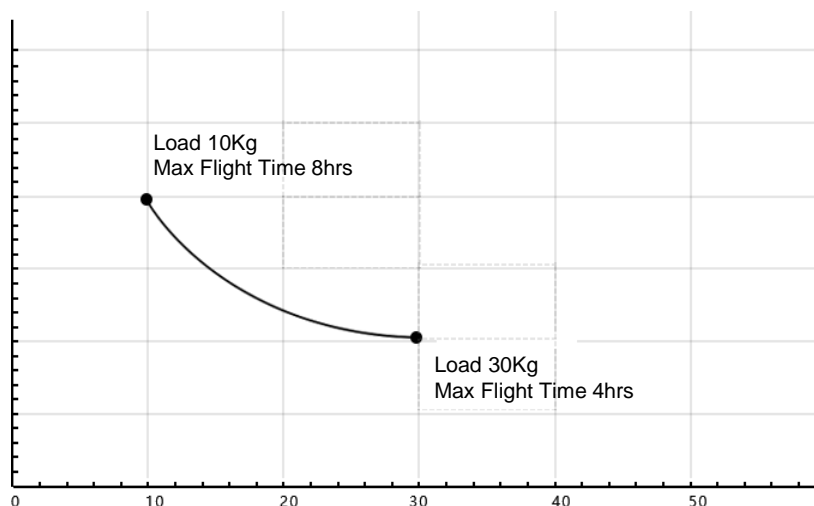
HCUAV-540 Equipped with 40L super large fuel tank, the flight time can be up to 8 hours and the flight distance can be up to 600km

40L Tank Capacity

8h Estimated Flight Time

1000km Estimated Flight Distance

Ratio of gasoline & engine oil 50:1 Fuel Composition





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Cam-m30 Double Light Pod

Optical Zoom: 90X, $f=4.3 - 129\text{mm}$
Thermal image: 640x480, 25Hz
Thermal imager output mode: 1080p Micro HDMI / AV
Total Pixel: 2.13mp
Image sensor: 1/2.8" Exmor R" Comos
Storage up to 128G
Weight: 1230gm
Size: 127.6x164.5x173.5mm



Tilt Photography Camera

Optical Zoom: 90X, $f=4.3 - 129\text{mm}$
Image resolution: 6000x4000
Sensor size: 23.2x15.6mm
Storage: 80G
Total pixel: 121.5 Million
Output mode: USB 2.0
Exposure interval: 0.8s
Weight: 1670gm
Size: 127.6x164.5x173.5mm



Missile Launcher

Can be loaded with 1x80mm missile / 4x40mm missile



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MISSILES

FC-04 Missile

Missile length: 500mm
Missile diameter: 40mm
Range: 2.5km
Capacity: 4 Pieces
Weight: 1.2Kg
Warhead Weight: 160g

It has the functions of armor-breaking and killing.
The effective fragmentation intensive killing radius is not less than 10m, and it can penetrate 50mm steel plate, CEP \leq 2m.

FC-08 Missile

Missile length: 1250mm
Missile diameter: 80mm
Range: 12km
Capacity: 1 Piece
Weight: 12.5Kg
Warhead Weight: 3.5Kg

Penetrating the warhead can penetrate standard brick-concrete walls; the composite warhead can penetrate up to 30mm, which can damage armored vehicles within 3m and personnel within 5m
CEP \leq 2m.



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AP-302 Pro Flight Control System

The AP-302Pro flight control system integrates a flight control computer and a micro integrated navigation system (GPS/INS), which can realize one-key automatic take-off, landing, hovering, hovering, return, height fixation, parachute opening, and various forms of scheduled operations Route autonomous cruise function.

- Autonomous Takeoff And Landing And Route Planning
- Over The Horizon Automatic Flight
- Control The Attitude Of The Aircraft
- Online Switching Flight Mode

Intelligent Control Software

Dual screen ground station GCS-D02

Ground station GCS-D02, larger and more professional than the D01, using side-by-side dual-screen layout, dual-station design, to meet more professional flight operations.



Remote controller Futaba T16 series

The Futaba T16IZ has 16 plus 2 remote control channels to meet the channel requirements of the system.

