AheadX™
致 导 科 技

# QP537
## eVTOL UAV

**Medium-sized oil-powered eVTOL UAV**
longer endurance, more possibilities

# QP537 eVTOL UAV

The fixed-wing part of the QP537 adopts a tandem layout with extremely high aerodynamic efficiency, which allows it to stay in the air longer (8 hours) and have a wider speed range (90~140 km/h) than UAVs of the same level. The QP537 has a maximum load capacity of 13KG (fuel + load), an automatic tracking data link of up to 160 kilometers, and has extremely strong operating capabilities.

## Efficient tandem wing

8 hours long airtime The speed range is 90~140 km/h

## Super mounting capacity

The maximum load can reach 13KG(with fuel)

## Gimbal auto lift

Reduce sight obstruction and wind resistance

## long distance datalink

160KM Automatic tracking datalink

## Automatic engine control

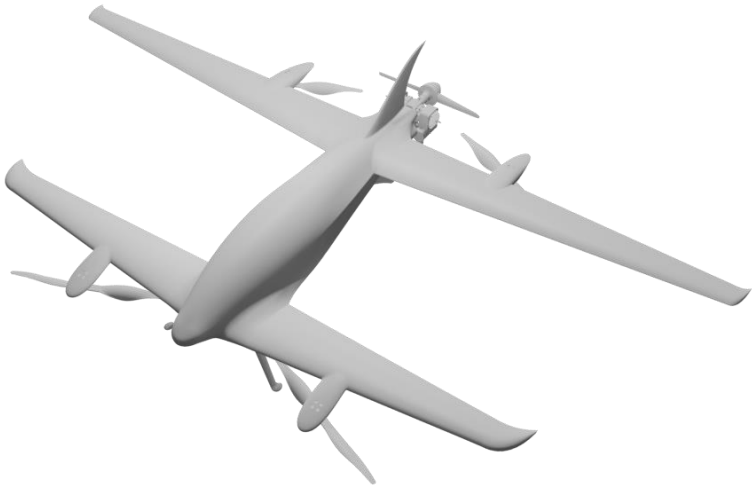
Start after takeoff and flameout before landing.

## Full platform GCS

Desktop/handheld UAV GCS
Gimbal GCS/Cloud system

# UAV parameters

## QP537



| | |
|---|---|
| Fuselage length | 2.0m |
| **Wingspan** | back3.7m/front2.8m |
| Maximum payload weight | 13kg（with fuel） |
| **Maximum takeoff weight** | 35kg |
| power system | Engine/Brushless Motor |
| Maximum flight time | 6h（Affected by various factors such as environment and load） |
| **Speed range** | 90~140km/h |
| Wind resistance | Multi-rotor≤LV5；fixed-wing≤lv6 |
| **Practical ceiling** | 5000m |
| Operating temperature | -20℃~50℃ |
| **Take-off and landing mode** | Auto |
| RTK Horizontal positioning accuracy | 1cm+1ppm |
| **RTK Vertical positioning accuracy** | 2cm |
| heading accuracy | 0.2° |

# Gimbal parameters

| model |  PG323 |  PG333T |  PG343TL |
|---|---|---|---|
| lens | Visible/wide | visible /infrared/wide | visible /infrared/wide/laser |
| **Zoom Lens Parameters** | | | |
| Real time video streaming | 1920×1080 | | |
| Lens | 6.5mm-162mm | | |
| horizontal field of view | 58.1°-2.3° | | |
| Zoom | Optical 30x, digital 12x | | |
| Transparent fog | Electron mist transmission | | |
| **Thermal imaging lens parameters** | | | |
| Detector type | Uncooled vanadium oxide infrared focal plane detector | | |
| Pixel size | 640×512 | | |
| Focal length | 35mm | | |
| field of view | 12.5°×10° | | |
| Infrared mode | Black/White/rainbow | | |
| **Wide angle lens parameters** | | | |
| Pixel size | 1920×1080 | | |
| Focal length | 3.14mm | | |
| horizontal field of view | 86° | | |
| vertical field of view | 54.4° | | |
| **Thermal imaging lens parameters** | | | |
| Range | 5~2000m | | |
| Accuracy | ±1m | | |
| frequency | 1~4Hz | | |
| Laser wavelength | 905nm | | |