



GDU | GV100

VTOL Fixed-wing Aircraft



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Reliable safety



Module design



Long flight time



Easily-dismounting structure

Notes: This brochure provides general information only and may be subject to change at any time without notice.

GDU GV100

PRODUCT PARAMETER



FEATURES

- Long flight time**
 2.5hr max flight time
- Easily-dismounting structure**
 Support the wing, tail, rotor arm and propeller easily dismounting
- Reliable safety**
 Smart design of no less than 3 redundant sensors, with triple protection mechanism for return home, forced landing and parachute landing
- Long distance integrated data link with relay figure**
 It is equipped with integrated data link with 15km@1080p 50km, 100km relay networking function
- Module design**
 It adopts module design which make it very convenient to replace

PAYLOADS

Security



4K Camera (QYT003)



30X Optical Zoom Camera (GTZMHD-30X)



Infrared Camera (GTIR800)



Visible light&infrared&laser 3-in-1 Camera (TMS7120A)

Mapping



DSLR Camera



Oblique Camera



Laser Radar



Visible light&infrared&laser 3-in-1 Camera (TMS7120A)

- Infrared camera resolution is up to 640*512@25HZ, visible light camera resolution is up to 1920*1080@30HZ
- 10 infrared pseudo-color mode transitions
- 10x optical zoom, zoom range 4.9-49mm
- Laser ranging from 6 to 700m, ranging resolution is 0.1m
- Optional assembly box, SBUS, PWM, multiple control interfaces

30X Optical Zoom Camera (GTZMHD-30X)

- 30X optical zoom, 4X digital zoom, zoom range 6~180mm
- 12 million pixels
- 4K@30fps HD video
- Semi-automatic focus, special micro focusing
- Three-axis stabilization, image stabilization precision ≤0.01°
- Optional assembly box, SBUS, PWM, multiple control interfaces

GV100 Material Wing span Body length Power mechanism Number of propellers Weight (without payload) Loading Cruising speed Max flight time Max flight distance Max horizontal speed Max ascending speed Max descending speed Practical ceiling height Max flight altitude Data link Wind-proof level Water-proof level Hovering accuracy Attitude stabilization accuracy Flight path control accuracy Landing accuracy Take-off and landing method Working temperature Easily-dismounting structure	Carbon fibre Kevlar (composite material) 2.5m 1.05m power-driven 5 (4+1) 13kg 1kg 75km/h 120mins 185km 30m/s 5m/s 10m/s 3000m (Plateau propeller: 5500m) 5500m Graph-data integrated data link, 15km@1080p, compatible with 50km, 100km data link Level 6 Light rain Horizontal 1cm+1ppm; vertical 2cm+1ppm Roll ±3°; pitch ±4°; skew ±3° (without wind) Yaw ±3 m; altitude difference ±1 m; track deviation±2° <0.3m Autonomous vertical take-off and landing (without remote control) -20°C~+50°C Support the wing, tail, rotor arm and propeller easily dismounting	Task response time Payload module Safety mode GPS module Dual-frequency 3 mode GPS Sampling frequency Output format Working mode Positioning accuracy GPS base station Signal tracking Accuracy&Reliability Working time Initialization time Initialization reliability Base station reliability Location support Working mode Control operation	Unfolded≤10mins, withdraws≤10mins Support switch of ortho camera and oblique Camera Posture overrun, return home/forced landing/parachute landing 3 protection mechanisms under over altitude situation, automatic return under lost connection situation, low battery alarm, electric fence, collision protection Support GPS: L1/L2; BD: B1, B2; GLONASS: L1, L2 5-20HZ available HCN available, can switch to RINEX and BINEX format Compatible with RTK/PPK 2cm Support GPS: L1/L2; BD: B1, B2; GLONASS: L1, L2 Vertical accuracy: ±(8+1×10-6×D) mm Horizontal accuracy: ±(15+1×10-6×D) mm ≥8hrs 5S >99.99% Water&dust-proof level: IP68; shock-proof level: IK08; fall-protection level: can bear the height of 2m free falling Support CORS and QIANXUN SI connection Support PPK and RTK Can collect data by ground software and direct setting
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APPLICATION



Energy
oil&gas, power lines, solar, nuclear

Public Safety
border monitoring, illegal case tracking, aerial surveillance

Mapping
smart city solution, cultural relics protection, land mapping, resources monitoring, cadastral survey

Environment Protection
environment monitoring, sewage pollution inspection, gas detection