Long Endurance Patrol Unmanned Aircraft

Efficiency Revolutionizes Innovation









15KM Real-time HD Video Transmission



Level 7 Wind Resistance



100km/h Maximum Flying Speed



Al Recognition **Target Tracking** and Recognition



Innovation **New Experience**

Overall Dimensions	998*157*442mm (Assembled) 536*237*332mm (Disassembled)	Main Rotor Diameter	1332mm
Maximum Endurance	100min	Wind Resistance	Level 7
Maximum Take-off Weight	6.99kg	Hovering Ceiling	7000m
HD Video Transmission Distance	15km	Hover Accuracy	Vertical: ± 2.0 m (GPS) ± 0.1 m (RTK) Horizontal: ± 1.5 m (GPS) ± 0.1 m (RTK)
Maximum Horizontal Speed	100km/h	Obstacle Avoidance Function	support
Cruising Speed	50-60km/h	Maximum Climb/ Descend Speed	4m/s

10X Laser Ranging POD

Aircraft Weight

Battery Weight

Visible / Infrared / Laser ranging / Tracking / Position acquisition

-20°C ~ +45°C

-20°C ~ +55°C



10X Enhanced optical zoom

3.2kg

3.2kg (without battery)

Visible Light Sensor Parameters



Focal length: 25mm Effective Pixel: 640*512

Storage Temperature

Operating Temperature

Infrared Thermal **Imaging Parameters**



1200m Measuring Range



EFFICIENT AND INNOVATIVE

100 Minutes of Flight Endurance

- A wide range of operations in a single sortie, reducing frequency of landings and battery replacement

NEW INTERACTION

From Solid to Flat - Simplify the Complex

- Full touch screen control, user-friendly UI, game-like control experience
- Easy to use, reduced risk of misoperation



Payload

10X Laser Ranging POD Megaphone Searchlight



10X Laser Ranging POD



Megaphone + Searchlight

Accessories

Handheld Ground Control Station Battery Box Portable Backpack



Handheld Ground Control Station



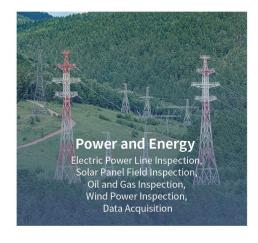
Battery Box



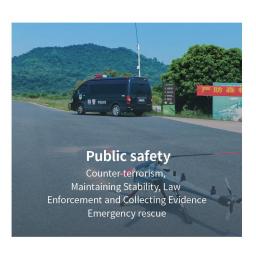
Portable Backpack

Industry Applications

Make it your best work partner







Unmanned Transport Helicopters



Grey Whale G1



21KG Payload



30KM



BVLOS Transmission



40KM Flight Distance



6000M Max Altitude



Level 7 Wind Resistance



Parachute Emergency

Fuselage: 1106*435*515mm (L*W*H)

Tail Boom: 861*133*282mm (L*W*H)

Without rotor blade: 1942*495*715mm (L*W*H)

Main Rotor Diameter

Dimensions

2180mm

Max Take-off Weight

45kg

Max Payload

21kg (single battery) 15kg (dual battery)

UAV Weight

17kg (without battery)

Battery Weight

Dual battery: 13kg

Cruising Speed

50-75km/h

Max Speed

90km/h

Endurance

65min

Flight Range

60km

Disassembled

Communication Range

Communication Frequency

Wind Resistance

Max Service Ceiling

Hover Accuracy

Max Climb/ **Descend Speed**

Operating Temperature

Storage Temperature -20°C~+60°C

Parachute

Vertical: ± 2.0 m (GNSS) ± 0.1 m (RTK) Horizontal: ± 1.5 m (GNSS) ± 0.1 m (RTK)

5m/s

30KM

Level 7

6000m

1360-1450MHz

-10°C~+55°C

Support



Triple Upgrade



Upgraded Quad Blades

Enhanced lift power, payload weight and wind resistance

Modular and Foldable

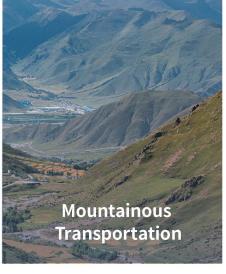
Dismantle modular fuselage and fold landing gear

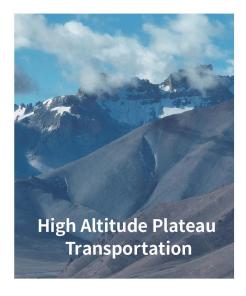
Extensively
Stable Landing

Re-designed landing gear for smoother take-off and landing

Industrial Applications Make G1 Your Best Work Partner







Long Endurance Unmanned Aircraft

Long Lasting Endurance No Battery Replacement



Ranger P2X







min 30km num Real-time HD Video rance Transmission



6 Level Wind Resistance



5500m Maximum Flying Altitude



Intelligent Obstacle Avoidance Millimeter Wave Radar



Autonomous Take-off/ Follow/Landing Platform Mobile Take-off and Landing

Overall Size	1690*247*495	Maximum Flying Altitude	5500m
Main Rotor Diameter	1910mm	Wind Resistance	6 Level
Maximum Take-off Weight	16.5kg	Operating Frequency	1360-1450MHz
Standard Weight	3.7kg	Hover Accuracy	Vertical: ± 2.0 m (GPS) ± 0.1 m (RTK) Horizontal: ± 1.5 m (GPS) ± 0.1 m (RTK)
Maximum Horizontal Speed	100km/h	Maximum Climb/Descend Speed	Climb Speed: 2.5m/s
Battery Weight	11.3kg	maximum climb/bescend speed	Descend Speed: 1.5m/s
Video/Data Link Transmission Distance	30km	Obstacle Avoidance Module	Obstacle Sensing Range: 60m FOV:130°
Maximum Payload	1.5kg	Operating temperature	-20°C ~ +60°C
Cruising Speed	50-70km/h	Storage temperature	-10°C ~ +55°C
Maximum Endurance	120min	Protection class	IP54
Maximum Range	120km		

 $[\]hbox{*\o} \ \ \hbox{The Ziyan movement base take-off and landing follower module is an optional module}$





Modular Design

Portable



Unique detachable structural design



3 minutes fast deployment



Aviation composite material percentage>50%





Tri- sensor Pod



30X Laser Ranging POD

Optional Equipment



Oblique Camera



Lidar



Loud speaker

Ground Control System

Handheld Ground Control Station Communication Base Station

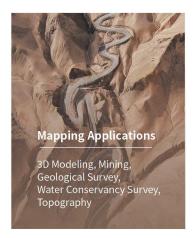


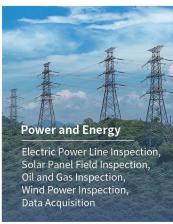
Handheld Ground Control Station

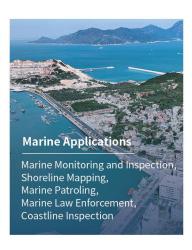


Communication Base Station

Applications in complex environments Make it your best work partner









Ziyan 's Brand New

Unmanned Aircraft System

High Mobility Enhanced Portability





Collapsible

Portable



5500m

Maximum Flying Altitude



130km/h

Maximum Speed



Autonomous Obstacle Avoidance

Large Angle Avoidance

Overall Size

Overall Size (Folded)

Main Rotor Diameter

Maximum Take-off Weight

UAV Weight

Battery Weight

Maximum Payload

Operating Temperature

1655*565*580mm

865*315*360mm

1910mm

22kg (Plain data)

7.6kg (Without battery)

7.4kg

7kg

-10~55°C

Control Radius

Maximum Endurance

Maximum Flying Altitude

Cruising Speed

Maximum Horizontal

Wind Resistance

Storage Temperature

30km

50min

5500m

60-90km/h

130km/h

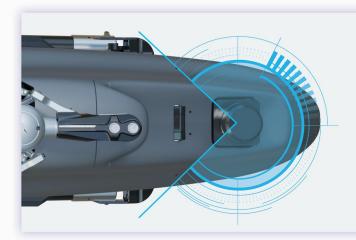
Beaufort Level 7 (Wind speed 17m/s)

-20~60°C

^{*}①Customized low temperature batteries are available



Expanded Functionality •



Autonomous Obstacle Avoidance

A single module to make it easy to avoid large angled obstacles, reduce load on the fuselage, reduce redundant modules, possess higher mobility.

Large capacityOpen payload cabin

Customized multi payload; quick release universal hanger, easy to deploy, pair the Falcon-10 with multiple mini-UAVs to from a primary-secondary system and launch suicide attacks.





Beyond Visual Line of Sight Image

Support transmission of video and data over 30km, integrated design for video and data transmission, decentralized system technology, one node to multiple nodes communication, flexible and compatible, strong anti-jamming capabilities, ensure instant communication.

Portable

Fuselage collapsible mode, suitable for single operator, simplify procedures for operator.



Surveillance and Combat



Blowfish A4



15KG

Maximum **Payload Capacity**



2180mm

45kg

15kg

50-75km/h

90km/h

65min

60km



5500m

Maximum

Unfold (without rotor blades):

1942*495*715mm (L*W*H)

Without Battery: 16.5kg

Dual Batteries: 13.2kg

1106*435*515mm



level 7

Distance

Frequency

/Landing Platform Mobile Take-off/



Diverse Payload Multi Domain Solutions

Dimensions

Fuselage (disassembled)

Main Rotor Diameter

Maximum Take-off Weight

Maximum Payload

Aircraft Weight

Battery Weight

Economic Cruising

Speed Maximum Ground

Speed (IGS)

Maximum Endurance

Maximum Flight Range

30km

Real-time HD Video Transmission



Flying Altitude



Wind Resistance

Autonomous Take-off/Follow

Landing

30km

1380-1480MHz

Wind resistance

Maximum Flying Altitude

Maximum Communication

Hover Accuracy

Communication

Maximum Climb /Descent Speed

Operating Temperature

Storage Temperature

Protection Level

Integrated Data and Video link:

level 7

5500m

Vertical: ± 2.0 m (GPS) ± 0.1 m (RTK) Horizontal: ± 1.5 m (GPS) ± 0.1 m (RTK)

5m/s

-20°C~+55°C

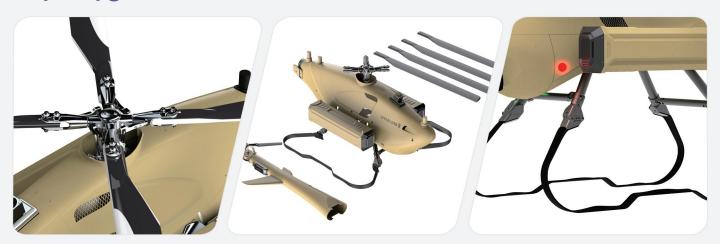
-20°C~+60°C

IP54

^{*}① Ziyan Autonomous Take-off/Follow/Landing module is optional



Triple Upgrade



Upgraded Quad Blades

Enhanced lift power, payload weight and wind resistance

Modular and Foldable

Dismantle modular fuselage and fold landing gear

Extensively Stable Landing

Re-designed landing gear for smoother take-off and landing

Intelligent Swarm

Ziyan "Intelligent Swarm" keeps swarm aircrafts interlinked and maintains formation by communicating with each other instead of relying on ground stations for orchestration. If a swarm aircraft does not receive signals from ground control station, it can still keep flying in formation and can avoid the other swarm aircrafts independently. The swarm aircrafts can also be grouped into smaller sub-swarms in real time.



Reconnaissance and Strike

Detect, lock, track and strike targets from the air. Acquire position of target, and exceute automatic strike on the target with installed weaponry.

30X Quad-Sensor AI POD

Electro-optical (10x/30x Optical)

Thermal Imaging (25mm 640×512)

Laser Rangefinder Measurement Distance (1.5km)

Al Human, Vehicle and Ship Identification, Recognition and Tracking



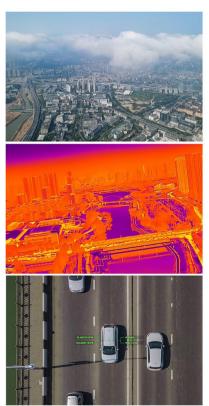


Multi-lens linkage, continuous zoom

Automatic AI identification and tracking

CF01

Specifications



30X Visible Light Sensor	Resolution Sensor Size Pixel Size Lens Focal Length	1920x1080,1280x720 1/1.8" 2.9um 6.5mm~162.5mm
10X Visible Light Sensor	Resolution Sensor Size Pixel Size Lens Focal Length	3264x2448 1/3" 1.5um 4.9mm~49mm
Thermal Imaging Sensor	Resolution Pixel Size Lens Focal Length	640x512 12um 25mm
Laser Ranging	Range	15-1500m





Unfolded: 310*316*91mm **Dimensions** Folded: 396*98*91mm

Maximum Take-off Weight 1.7kg

1400g (with battery) Aircraft Weight

Maximum Payload 300g Maximum Climb Speed 8m/s

Maximum Endurance 20min (no payload) 15min (full payload) (speed 10m/s)

Maximum Horizontal Spee 25m/s

Maximum 10km **Communication Distance**

Maximum Altitude 5200m

Communication Frequency

Wind Resistance Level

1360-1450MHz

level 6

Operating Temperature -10°C~+55°C (Standard version)



Dimensions 313*225*16mm

1.8kg Weight

Processor 17-13700H

32**GB** Memory 遥感 **XBOX**

Tri-screen Ground Control Station (Professional)



Dimensions 427*334*138mm

12.6kg Weight

Processor 17-7500U 8GB/DDR4

Battery 6h

System Features and Benefits

Functional Features

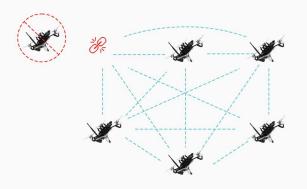
One operator uses one ground station to control 10 drones simultaneously,

which makes operation more efficient.

The system supports various formations such as horizontal, vertical, triangular, circling and more, allowing multiple formations to be set up in real-time for different mission requirements.

Attack mode is used to initiate a coordinated attack without needing to plan a specific path or route.



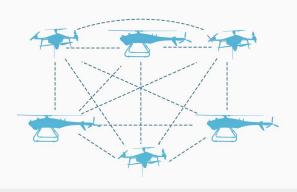


Decentralized System

In a decentralized swarm, if one drone is damaged, the others automatically fill its position, ensuring the integrity of the formation and the continuation of the mission.

Diverse

Supports heterogeneous swarm systems such as reconnaissance + attack aircraft, helicopters + multi-rotors for execution of coordinated missions.





Support for importing coordinates from other devices.

Support coordinate information of radar, from other drones or equipment and import to the swarm to improve the multi-domain cooperative combat features.

Worry-free simulation and training

No need to access real UAV, swarm system software training and tactical simulation can be realized based on the ground station and host.



Host Ground Control Station

VTOL Fixed Wing





10 h Long Endurance



50km **Long Communication Distance**



10min Easy Assembly/Disassembly

Dimensions	without rotor blades 2020mm*3744mm*696mm	Aerodynamic Layout	Tail Propulsion + Four Rotors
Transport Box Dimensions	2120mm*90mm*640mm	Operating Environment Conditions	-20°C~45°C; Rainfall≤10mm/24h
Maximum Take-off Weight	35kg	Service Ceiling	5850m (Fixed Wing) 3500m (VTOL Mode)
Maximum Payload	12kg		Level 6 (Fixed Wing)

Maximum Payload	13kg	Wind Resistance	Level 6 (Fixed Wing) Level 5 (VTOL Mode)
Standard Cruising Speed	25m/s	Minimum Circling Radius	200m(Not less than 250m in plateau)
Maximum Flight	10m/s	Fuel Consumption	0.96L/h

Standard Cruising Speed	25m/s	Minimum Circling Radius	200m(Not less than 250m in plateau)
Maximum Flight Speed	40m/s	Fuel Consumption	0.96L/h
Stall Speed	18m/s	Communication Distance	50km
Endurance Time	10h (Standard Load 3kg)	Positioning Accuracy	±1.5m

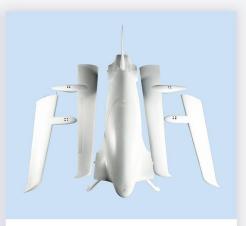
Product Features







50km datalink Wide Communication Distance



Easy Disassembly and Assembly 10 Minutes Deployment

Application



Detection, Tracking and Ranging

Quad-sensor camera with EO (10x/30x), IR, and LRF sensors provides detection and tracking of objects from a far. 30x optical zoom of the EO sensor provides enhanced view during day missions and 25mm IR enables thermal imaging mode. Track objects and measure range of tracked object by LRF (laser rangefinder).

ISR

Equipped with detecting, recognizing, identifying, tracking, ranging and positioning features, Qinglong UAS provides excellent surveillance and reconnaissance capabilities in complex environments. Integrating Qinglong with multiple other different platforms can provide extensive situational awareness.



Ziyan Series

IoT Situational Awareness System



The IoT situational awareness system uses the Internet of Things to collect and analyze data in real time to assist in fully grasping the on-site situation. Main functions include real-time one-way or multi-way sharing of location information, sharing of labeled information and notes, interactive re-use of labeled information and location information, real-time video feed and transmission of images.

Structural Parameters		Performance Parameters	
Overall Dimensions 482*408*154.4mm		Endurance	2.5h
Weight	9.4kg	Operating Temperature	-20°C ~ +50°C
Color	Black	Storage Temperature	-20°C ~ +60°C
Interface & Network		Operating System	Win7、win10
Support maximum number of 20 devices (level 1)		Deployment Mode	Local
Data Access Type	2D, 3D geographic location information/video feed	Main Features	Information convergence, information distribution
Network port	4 way RJ45	Video Streaming Protocol Format	RTMP/RTSP
Unified Interaction	Simultaneous Access to Information, SPA Design Mode	Data Transmission Protocol	MQTT

Product Compatibility



Unmanned Aircrafts

Support Ziyan Mainstream Models



Radar

Maximum Detection Distance Range: 48NM (89KM)

Accuracy: 25m Blind Zone: 25m

Range: 0.25NM~48.0NM (11 steps) Orientation

accuracy: ±1°

Other Equipment

Support DJI models, photoelectric PODs, surveillance equipment, soldier body-cam and vehicle positioning equipment
Support multi-level IoT situational awareness system interconnection, realize different levels of authority management

