

HELANG

Unmanned Aerial System (UAS)



Vigilance Beyond Borders

Made from a carbon fibre airframe, yet stronger and stiffer than steel, HELANG is designed to meet the needs and requirements in the defence industry. It provides the aerial solution for multi-missions aerial exercises for commercial, professional and military use. Its functions include surveillance, monitoring, reconnaissance, data relay, and data collection to the Ground Control Station.

Key Features

-  4 hours maximum endurance
-  280 km maximum range
-  Geo-tagging video and photo
-  Economical operations cost
-  High-precision 2-axis gimbal
-  Autonomous flight
-  Double encryption data link
-  Live instant streaming
-  On-site route planning
-  30x optical zoom
-  640-480 thermal video
-  Artificial Intelligence features

Technical Specifications

HELANG VFE-3500IU		Payload EO/IR 30x Optical Zoom and Thermal Infrared Camera	
Dimension	3500 mm×1900 mm×700 mm	Dimension	195 mm×127mm×122 mm
Weight without payload	19 kg	Weight	1.18 kg
Max Takeoff Weight	22 kg	Gimbal	Dual Axis Gyro; Mechanical Stabilization; 0.01°; External Tracking Module
Max Payload Weight	3 kg		
Battery	Solid State Li-ion 44.4 V	Visible Light	30x Optical Zoom; Focal Length 4.3 mm to 129.0 mm; F1.6 to F4.7; FHD 1080P@60fps
Capacity	48000 mAh		
Operational Time	3-4 hours	Infrared	Focal Length 20 mm, F1.0, Uncooled Infrared Focal Plane, Pixel 640×480
Max Flight Route	280 km		
Operational Radius	Max 150 km	Working Voltage	11.1 – 16.8 V
Horizontal Speed	80-110 km/h	Power Consumption	10 W
Stall Speed	50 km/h		
Wind Resistance	62-74 km/h		
Ground Control Station			
Dimension	828 mmx467 mm×280 mm	Display	Dual 13-inch screen; 7-inch screen
Weight	18 kg		
Power	Support External Supply	Brightness	1000 knits
Battery	Solid-state Li-ion 21 V	Connection	4G LTE, Wi-Fi, IP-based
Capacity	16000 mAh	Operational Frequency	915 MHz, 1.3 GHz
CPU	Processor: AMD Ryzen 5; RAM: 16 GB; Storage: 500 GB SSD	Control	Aircraft: HOTAS; Gimbal: Stick
I/O	Keyboard/Trackpad; USB Port; Antenna Tracker; GPS; Screen Mirroring	Encryption	Double layer SHA1, SHA256, SSTP, Advance Encryption