MINDMATICS

HELANG

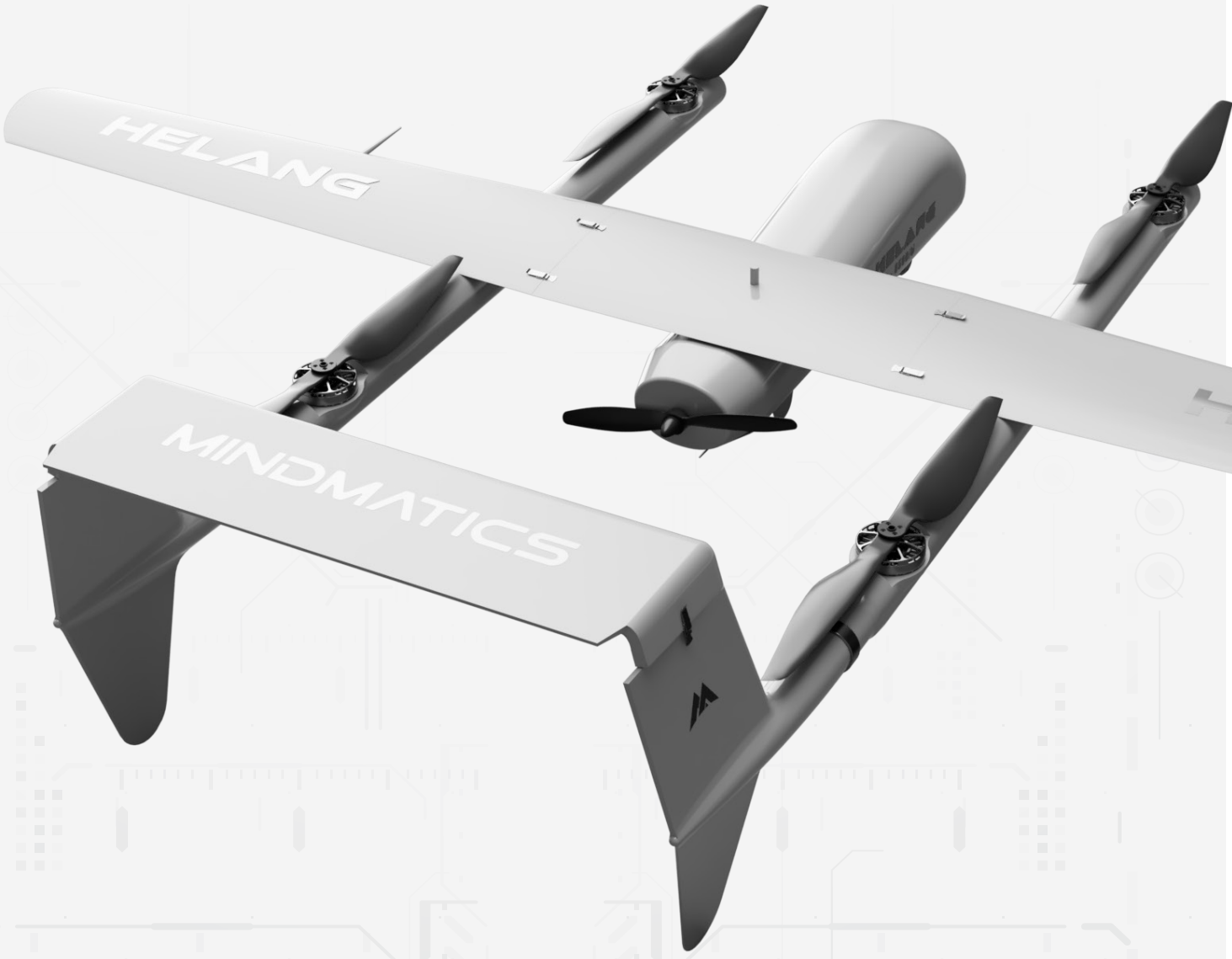
UNMANNED AERIAL SYSTEM

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
- Economical Operation Cost
- 30x Optical Zoom
- Double Encryption Datalink
- 280 km Maximum Range
- High Precision 2-Axis Gimbal
- Live Instant Streaming
- 640x480 Thermal Video
- Geo-Tagging Video and Photo
- Autonomous Flight
- On-site Route Planning
- Artificial Intelligence Features



Technical Specifications

HELANG VFE-3500IU	
Dimension	3500mm×1900mm×700mm
Weight without payload	19kg
Max Takeoff Weight	22kg
Max Payload Weight	3kg
Battery	Solid State Li-ion 50.4V
Capacity	48000 mAh
Operational Time	3-4 hours
Max Flight Route	280km
Operational Radius	30 (Upgradable to 150)km
Horizontal Speed	80-110 km/h
Stall Speed	50 km/h
Wind Resistance	62-74 km/h
Payloads EO/IR 30x Optical Zoom and Thermal Infrared Camera	
Dimension	195mm×127mm×122mm
Weight	1.18kg
Gimbal	Dual Axis Gyro; Mechanical Stabilization 0.01°; External Tracking Module
Visible Light	30x Optical Zoom; Focal Length 4.3mm to 129.0mm; F1.6 to F4.7 FHD 1080P@60fps
Infrared	Focal Length 20mm, F1.0, Uncooled Infrared Focal Plane, Pixel 640×480
Working Voltage	11.1 – 16.8V
Power Consumption	10W

Ground Control Station	
Dimension	828mm×467mm×280mm
Weight	18kg
Power	Support External Supply
Battery	Li-ion 21V
Capacity	16000 mAh
CPU	Processor: AMD Ryzen 5 RAM: 16 GB Storage: 500 GB SSD
I/O	Keyboard/Trackpad USB Port Antenna Tracker GPS Screen Mirroring
Display	Dual 13-inch screen 7-inch screen
Brightness	1000 knits
Connection	4G LTE, Wi-Fi, IP-based
Operational Frequency	915 MHz, 1.3 GHz
Control	Aircraft: HOTAS Gimbal: Stick
Encryption	Double layer SHA1, SHA256, SSTP, Advance Encryption

C9-C11,
Jalan TKS 2, Taman Kajang Sentral
43000 Kajang, Selangor

+603-8741 2707
www.mindmatics.com.my