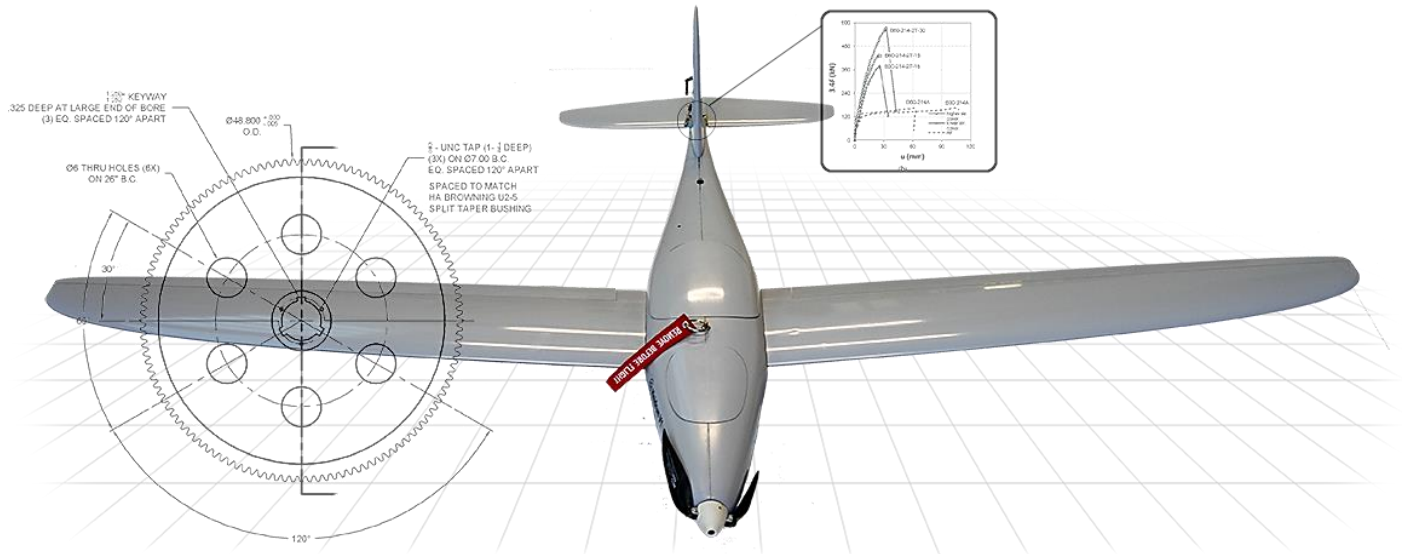


HEIDRUN V1 UAV FOR TACTICAL SYSTEMS



HEIDRUN V1 HIGH PERFORMANCE SCOUTING DRONE

Heidrun V1 is a portable, tactical Unmanned Aerial Vehicle primary for military use. The military drone is great for scouting and defence purposes.

The tactical drone is ultra mobile and can be rapidly deployed in the field to low-altitude drone reconnaissance or surveillance. It is operated by an easy-to-use touchscreen navigator with a precise GPS, or by joystick and a separate operated 2-axis stabilized gimbal system.

Besides being easy to use, the Heidrun V1 is a robust and powerful drone for recon and tactical solutions.

With 1.7 kg (without payload) and 1:30 hours flight time reaching 25 km range while providing Thermal & EO live-video feed, the tactical UAV is a high endurance and range aircraft.

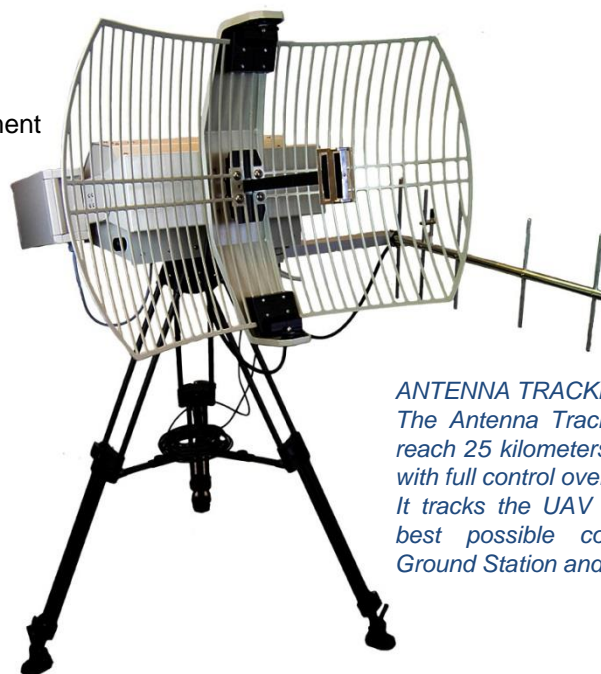
Heidrun V1 has a modular payload area, which can handle up to 600 g payload. Possibilities for customization and future sensor upgrades

MAIN BENEFITS

- Designed for Defense and Law Enforcement
- Dual camera (Thermal & HD)
- Encrypted (communication & video)
- Deployment time <5 min
- Flight Time 1:30 hrs
- Hand launched
- Deep-stall landing within 10×10 m
- Product liability
- 1 Year Warranty

Optional

- 2 Year Extended Warranty Care+
- 2 Year Service Plan



ANTENNA TRACKER

The Antenna Tracker makes it possible to reach 25 kilometers of live video feed along with full control over Heidrun V1.

It tracks the UAV at all times creating the best possible connection between the Ground Station and Heidrun V1.

UAV FOR TACTICAL SYSTEMS



PAYLOAD & ACCESSORY OPTIONS

SKY-WATCH DUAL LENS GIMBAL

- Separately controllable gimbal
- 2-axis stabilized gimbal
- Resolution: 720x576 EO
- Resolution: 640x480 IR
- Zoom EO: 6.6 x optical zoom - 2 x digital zoom
- Zoom IR: 2 x digital zoom
- Weight: 160g
- HFOV : 31° WFOV – 4.7° NFOV – 2.3° DFOV
- Pitch FOV: -45° to +135°
- Roll FOV: -180° to +180°



SKY-WATCH ANTENNA TRACKER RIG

Antenna tracker for long range communication and live video feed. Range up to 25km.



UAV FOR DEFENCE

Time is essential during a military operation; the outcome can change within seconds, meaning the difference between life and death. In that respect, the defence drone Heidrun V1 is the perfect choice due to its abilities within scouting and reconnaissance.



UAV FOR EMERGENCY & RESCUE

Heidrun V1 is an ideal drone in case of disaster or emergency situations, such as tsunamis, earthquakes, and terror attacks. Rapid response and accurate real-time information from the scouting drone is crucial to save as many lives as possible and provide the necessary help.



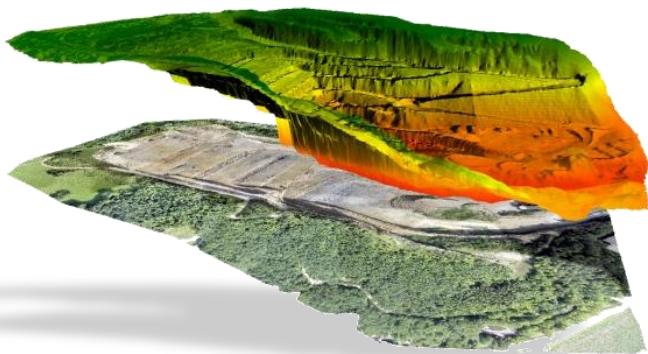
UAV FOR LAW ENFORCEMENT

For both law enforcement agencies and security forces, rapid response and versatility are the key to success because it provides a tactical advantage. The versatility of Heidrun V1 ensures that it can be used for a wide range of tasks.



UAV FOR NON-GOVERNMENTAL

Severe damage to infrastructures and high casualties caused by natural disasters call upon help from drone scouting and recon. Providing valuable information from areas which often are unmanageable, Heidrun V1 can be a vital part of saving lives.



LIVE MAPPING

The Heidrun V1 is a multipurpose UAV, which enables both live video feed and aerial mapping solutions/payloads, making the aircraft the perfect multipurpose UAV.

Sky-Watch recommends Agisoft Photoscan software to generate the proper map material

UAV FOR TACTICAL SYSTEMS



SPECIFICATIONS

DIMENSIONS	L x W x D	WEIGHT
Heidrun V1	1070mm x 1650mm x 170mm	1,100g (max 2,200g)
Heidrun V1 Transport cases (Pelicase 1740 x 2)	1122mm x 328mm x 308mm	12,200g
Heidrun V1 Ground station (toughbook x 2)	298,5mm x 191,8mm x 20,1mm	1,230g
Heidrun V1 Battery	140mm x 70mm x 40mm	580g
Heidrun V1 Payload capacity	N/A	500g
Heidrun V1 Payload - Colibri EO/IR dual mount	78mm x 53mm x 53mm	500g

VIDEO & TELEMETRY		
Receiver	Encrypted COFDM - supports SD to 1080p resolution	
Transmitter	Encrypted COFDM - supports SD to 1080p resolution	
Antenna type	RHCP circular polarized antenna	
Radio frequency	2,4GHz	
Transmission range	Up to 25km (requires additional equipment)	Line of sight
Transmission power	Up to 1,0Watt	

PERFORMANCE		
Max flight time	Up to 90min	
Ground Station battery time	Up to 480min standard	
Max speed (ground speed)	30m/s	108km/h
Max wind tolerance	12m/s	
Optimal cruise speed (ground speed)	17m/s	61.2km/h
Stall speed	8m/s	28.8km/h
Service ceiling	3500m ASL	11,483ft ASL
Maximum landing altitude	3000m ASL	9,843ft ASL
Maximum operating temp.	45Co	
Minimum operating temp.	-20Co	
Auto land battery voltage	12.7V	
Charger power supply	12V DC or 100-240V AC	
Heidrun battery voltage	14.8V	
Heidrun battery capacity	8750mAh	