



HEIDRUN EO/IR

TECHNICAL SPECIFICATIONS

The Heidrun EO/IR is a battle proven, fixed wing, mini drone for low-altitude video surveillance and reconnaissance missions. It is designed for operations in complex environments and with high mobility, rapid and easy launch & recovery in mind.

Reaching 30 km of live video feed, it is ideal for collecting immediate situational awareness from any mission critical area without exposing the operator to any danger.

DIMENSIONS	L x W x D	WEIGHT
UAV Take Off Weight	1070 mm x 1650 mm x 170 mm	2.3 kg
UAV Battery	140 mm x 70 mm x 40 mm	0.625 kg
Complete UAS in transport case	1122 mm x 328 mm x 308 mm	27.9 kg (incl. 2x batteries)
Compact Ground Station	299 mm x 192 mm x 20 mm	0.75 kg
UAS Transport case (Pelicase 1740)	1122 mm x 328 mm x 308 mm	N/A

PERFORMANCE

Max flight time	Up to 90 min	
Ground Station battery time	Up to 330 min standard	
Max speed (ground speed)	30 m/s	58,3 kts
Max wind tolerance	12 m/s	23,3 kts
Optimal cruise speed (ground speed)	16 m/s	31,1 kts
Stall speed	8 m/s	15,6 kts
Service ceiling	3500 m ASL	11,483 ft ASL
Maximum landing altitude	3000 m ASL	9,843 ft ASL
Maximum operating temp.	45 C°	
Minimum operating temp.	-20 C°	
Charger power supply	100-240 V AC	
Heidrun battery voltage	14.8 V	
Heidrun battery capacity	10.000 mAH	
Auto land battery voltage	12.7 V	



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PERFORMANCE

Average landing area needed	7,5 - 12,5m radius	Weather dependent
Launch method	Hand launched	
Recovery method	Deep Stall landing	

TELEMETRY & VIDEO

Transceiver	128 bit AES encryption	
Antenna type	Vertical polarized	
Radio frequency	2.402 - 2.478 GHz	
Transmission range	30km (Line of Sight) under ideal conditions and is environment dependent	>10km; Long Range Antenna Tracker V2 required
Transmission power	Up to 1,0 Watt	
Video bit rate	720p / 4 Mbps	

GROUND SYSTEM OPERATIONS

Rugged tablet (11.6", Win10 Pro, 128 GB)	299 mm x 192 mm x 20 mm	1.7 kg
XL Battery pack	86 Wh, 7.800 mAh	12 hours



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PAYLOAD

DUAL LENS GIMBAL

Separately controllable gimbal	2-axis stabilized gimbal	
Dimensions	78 mm x 53 mm x 53 mm	
Weight	160g	
EO: resolution	720 x 576	
EO: zoom capabilities	6.6 x optical zoom	2 x digital zoom
IR: resolution	640 x 480	
IR: zoom capabilities	N/A	2 x digital zoom
HFOV	31° WFOV – 4.7° NFOV – 2.3° DFOV	
Pitch FOV	-45° to +135°	
Roll FOV	-180° to +180°	

