



HEIDRUN MAPPING

TECHNICAL SPECIFICATIONS

The Heidrun Mapping is a fully autonomous, light-weight mini UAV, built for high-precision and high-resolution image / mapping intelligence missions. This man-portable UAV provides large terrain coverage, 2D and 3D models for analysis, and updated maps for mission planning

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	0.6 kg
Complete UAS in transport case	1122 mm x 328 mm x 308 mm	22 kg (incl. 2x batteries)

PERFORMANCE

Max flight time	Up to 150 min	
Max wind tolerance	12 m/s	23 kts
Cruise speed (air speed)	16 m/s	31 kts
Service ceiling	3,500 m ASL	11,500 ft ASL
Maximum landing altitude	3,000 m ASL	9,800 ft ASL
Maximum operating temp.	45 C°	
Minimum operating temp.	-20 C°	
Charger power supply	100-240V AC	
Heidrun battery voltage	14.8 V	
Heidrun battery capacity	10,000 mAH	
Dataset, absolute horizontal/vertical accuracy (no GCPs)	Horizontal: 1.5 cm Vertical: 4 cm	RTK/PPK edition L1/L2/L5-module



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PERFORMANCE

Launch method	Hand Launched
Recovery method	Deep Stall Landing
Average landing area needed	7.5 – 12.5m radius
Fail Safes	Loss of Telemetry Link, Low Battery, Loss of GPS

TELEMETRY

Module	Frequency-Hopping Spread Spectrum (FHSS)	
Antenna type	Omni directional vertical	
Radio frequency	433 or 915 MHz	
Transmission range	Standard configuration up to 12km (Line of sight)	Supports flight without telemetry link missions >12km
Transmission power	Up to 0.5 Watt	

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
Temperature	Operating: -10° C to +55° C Storage: -30° C to +70° C	



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PAYLOAD OPTION

STILL IMAGE CAMERA

Image device	APS-C size (23.2 × 15.4 mm), "Exmor" APS HD CMOS sensor	
Total number of pixels	Approx. 20.4 Megapixels	
Lens options	16mm or 20mm	
Recording media	Memory Stick Micro (Up to 16GB)	MicroSD (Up to 64GB)
Power	Lithium-ion battery	Nominal Voltage 7.2V DC
Operating temperature	0°C to 40°C	32°F to 104°F

