



# 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

<b>DIMENSIONS</b>	<b>L x W x D</b>	<b>WEIGHT</b>
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	21.8 kg (incl. 2x batteries)

## PERFORMANCE

Max flight time	Up to 150 min	
Max wind tolerance	12 m/s	23,3 kts
Max speed (ground speed)	30 m/s	58,3 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	100-240V AC	
Heidrun battery voltage	14,8 V	
Heidrun battery capacity	10.000 mAH	
Auto Land Battery Voltage	12,7 V	
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	Weather dependent

### TELEMETRY

Module	Frequency-Hopping Spread Spectrum (FHSS)	
Antenna type	Omni directional vertical	
Radio frequency	433 or 915 MHz	
Transmission range	Standard configuration up to 10km (Line of sight)	Support autonomous flight mode enabling missions >10km
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



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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	SONY NP-FW50
Capacity	7,7 Wh	1080 mAh
Nominal voltage	7,2V DC	
Operating temperature	0°C to 40°C	32°F to 104°F
Dimensions (W / H / D)	74.0 mm × 69.5 mm × 52.5 mm	
Weight	Approx. 213g	7,6 oz

