



HEIDRUN RADIO RELAY

TECHNICAL SPECIFICATIONS

The Heidrun Radio Relay is a light-weight mini UAV, built for mission critical operations under rough conditions and beyond-line-of-sight environments. This man-portable UAV provides the capability to extend the range of ground radio communication network. Keep communication to your team open when it matters

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	21.8 kg (incl. 2x batteries)

PERFORMANCE

Max flight time	Up to 90 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 feet ASL
Maximum landing altitude	3000 m ASL	9.843 feet 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	



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PERFORMANCE

Launch method	Hand Launched
Recovery method	Deep Stall Landing

UAV 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

PAYLOAD OPTION RADIO RELAY

Module	RF330E-CM	(Software Defined Radio)
Frequency Range	225 MHz to 2 GHz	
Transmitter Operating Voltage	50 mW up to 3.2 watts	
Security	AES-256	
Power	8.7 - 17 VDC	
Dimensions	8.48 x 6.15 x 1.32 cm (LxWxD)	<85 gram
Modes and waveforms supported	ANW2-C and STNW	
Temperature	Operating: -30° C to +55° C Storage: -40° C to +85° C	
Remote control functions	On/Off, Low-Power/High-Power mode	