



HEIDRUN RADIO RELAY

TECHNICAL SPECIFICATIONS

The Heidrun Radio Relay is a light-weight mini UAV, built for mission critical operations under rough conditions and challenged beyond-line-of-sight environments. This man-portable UAV provides the capability to extend the range of ground radio communication network. Boost communication to your team 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	0.6 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 120 min	
Max wind tolerance (mean wind)	12 m/s	23 kts
Cruise speed (air speed)	16 m/s	31 kts
Service ceiling	3,500 m ASL	11,500 feet ASL
Maximum landing altitude	3,000 m ASL	9,800 feet ASL
Maximum operating temp.	45 C°	
Minimum operating temp.	-20 C°	
Charger power supply	100-240V AC	
Heidrun battery voltage	14.8 V	
Charger power supply	100-240V AC	
Heidrun battery voltage	14.8 V	
Heidrun battery capacity	10,000 mAh	
Launch method	Hand Launched	
Recovery method	Deep stall landing	



HEIDRUN RADIO RELAY

TECHNICAL SPECIFICATIONS

PERFORMANCE

Fail Safes	Loss of Telemetry Link, Low Battery, Loss of GPS
------------	---

UAV TELEMETRY

Transmission scheme	Frequency-Hopping Spread Spectrum (FHSS)
Antenna type	Omni directional vertically polarized
Radio frequency	433 or 915 MHz
Transmission range	Standard configuration up to 12km Line of Sight
Transmission power	100 mW

GROUND SYSTEM OPERATIONS

Rugged tablet (11.6", Win10 Pro)	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	

PAYLOAD OPTION RADIO RELAY

Module	L3HARRIS RF330E-CM	(Sourced through L3Harris)
Frequency Range	225 MHz to 2 GHz	(Software Defined Radio)
Transmitter Operating Voltage	50 mW up to 3.200 mW	
Security	AES-256	
Modes and waveforms supported	ANW2-C and S-TNW	
Temperature	Operating: -30° C to +55° C Storage: -40° C to +85° C	
Remote control functions	Radio on/off	
Configuration	L3Harris Communication Planning Application (CPA)	



SKY-WATCH

Østre Allé 6F
DK-9530 Støvring

+45 9686 7666
sales@sky-watch.com

cvr/vat 32653847
www.sky-watch.com