



SKY-WATCH

# RQ-35 HEIDRUN

TECHNICAL  
SPECIFICATIONS



<b>Radio frequency</b>	2.2 to 2.5 GHz	10 MHz Channel Bandwidth
<b>Transmission power</b>	Normal mode 0,1 Watt	Up to 2x37 dBm (2x 5W) with Autonomous boost mode
<b>Spectrum Dominance</b>	Autonomous RF channel selection RX and TX beamforming	Auto change of encryption 4 encryption keys
<b>Antenna type</b>	UAV: Dipole antennas GS: Dipole combined with directional patch antenna	
<b>Encryption</b>	Up to AES-GCM 256 ECDH-KAS (FIPS 140-2) depending on EUS	
<b>Transmission range</b>	Op to 50KM LOS with dual directional antennas	Highly dependent on actual environment

## PAYLOAD

## TRIPLE LENS CAMERA

## 2 + 1 LENS CAMERA

<b>Payload platform</b>	Extractable gimbal mount		Extractable gimbal mount	
<b>Gimbal</b>	2-axis stabilized gimbal		2-axis stabilized gimbal	
<b>Visible camera (EO)</b>	Resolution: 1280x72 HFOV: 60° WFOV – 1.5° - 0.75° DFOV	Visible 400-700 nm Zoom: x40 + x2 digital (x80)	Resolution: 1280 x 720 HFOV: 60° WFOV – 3° - 1.5° DFOV	Visible 400-700 nm Zoom: x20 + x2 digital (x40)
<b>Thermal camera (IR)</b>			Resolution: 640 x 480 HFOV: 32° W.FOV – 8° DFOV	LWIR uncooled (8-14µm) Zoom: x4 digital
<b>Extracted range of rotation</b>	+/- 155° azimuth -70° to +10° pitch	(0 = UAV body heading) (0 = UAV water line)	+/- 166° azimuth -70° to +10° pitch	(0 = UAV body heading) (0 = UAV water line)
<b>Retracted range of rotation</b>	Fixed 0° azimuth -36° to -90° pitch	(0 = UAV body heading) (0 = UAV water line)	Fixed 0° azimuth -31° to -90° pitch	(0 = UAV body heading) (0 = UAV water line)

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## TECHNICAL SPECIFICATIONS



The **RQ-35 Heidrun** is a battle proven, fixed wing, UAS 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 +45 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 - Ready for Take-Off	1070 mm x 1650 mm x 170 mm	3.05 kg
UAV Battery	140 mm x 70 mm x 40 mm	0.92 kg
Complete UAS in transport case	1121 mm x 409 mm x 355 mm	24,7 kg (excl. batteries)
Complete UAS in backpack (mobile)	1120 mm x 440 mm x 300 mm	15,7 kg (excl. batteries)

### PERFORMANCE

Max flight time	170 min	
Max wind tolerance	16 m/s	31 kts
Cruise speed (air speed)	16 m/s	31 kts
Service ceiling	5,000 m ASL	16,400 ft ASL
Maximum landing altitude	3,000 m ASL	9,800 ft ASL
Minimum / Maximum operating temp.	-20° C	45° C
Charger power supply	100-240 V AC	10-50 V DC
RQ-35 battery	14.8 V	14.8 Ah
Average landing area needed	12.5 m radius	Weather dependent
Launch/land method	Hand launched	Deep Stall landing
GNSS-denied operation	Low audible and visual signature	
Fail Safes	Loss of Telemetry Link Low Battery Loss of GNSS data	

### GROUND SYSTEM OPERATIONS

Rugged tablet (Windows based)	Performance depends on chosen model	
User Interface based on user-driven development	Sky-Watch Drone Manager (SDM)	Single tablet operation
	Sky-Watch Camera Controller (SCC)	Dual tablet operation

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