

RQ-35 HEIDRUN

TECHNICAL SPECIFICATIONS

The RQ-35 Heidrun is a battle proven, fixed wing, mini 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 >30 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.

1070 mm x 1650 mm x 170 mm	261
	2.6 kg
140 mm x 70 mm x 40 mm	0.6 kg
1121 mm x 409 mm x 355 mm	24,7 kg (excl. batteries)
1120 mm x 440 mm x 300 mm	15,7 kg (excl. batteries)
Up to 100 min (>135 min. UKR pre-release batt.)	
12 m/s	23 kts
16 m/s	31 kts
5,200 m ASL	17,000 ft ASL
3,000 m ASL	9,800 ft ASL
-20 °C	45 °C
100-240 V AC	12 V DC
14.8 V	10 Ah
12.5m radius	Weather dependent
Hand launched	Deep Stall landing
Low audible and visual signature	
Loss of Telemetry Link	
Low Battery	
Loss of GNSS data	
Performance depends on chosen model	
Sky-Watch Drone Manager (SDM)	Single tablet operation
Sky-Watch Camera Controller (SCC)	Dual tablet operation
	1121 mm x 409 mm x 355 mm 1120 mm x 440 mm x 300 mm Up to 100 min (>135 min. UKR pre-release batt.) 12 m/s 16 m/s 5,200 m ASL 3,000 m ASL -20 °C 100-240 V AC 14.8 V 12.5m radius Hand launched Low audible and visual signature Loss of Telemetry Link Low Battery Loss of GNSS data Performance depends on chosen model Sky-Watch Drone Manager (SDM)



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Radio frequency	2.2 to 2.5 GHz	10MHz Channel Bandwidth
Transmission power	Normal mode 0,1 Watt	Up to 4,0 Watt with Autonomous boost mode
Spectrum Dominance	Autonomous RF channel selection	Auto change of encryption
	RX and TX beamforming	4 encryption keys
Antenna type	UAV: Dipole antennas	
	GS: Dipole combined with directional patch antenna	
Encryption	Up to AES-GCM 256 ECDH-KAS (FIPS 140-2) depending on EUS	
Transmission range	Up to 30km	Highly dependent on actual environment

PAYLOAD

TRIPLE LENS CAMERA

Payload platform	Extractable gimbal mount		
Gimbal	2-axis stabilized gimbal		
Visible camera (EO)	Resolution: 1280x720 HFOV: 60° WFOV – 1.5° - 0.75° DFOV	Visible 400-700 nm Zoom: x40 + x2 digital (x80)	
Thermal camera (IR)			
Extracted range of rotation	+/- 155° azimuth -70° to +10° pitch	(0 = UAV body heading) (0 = UAV water line)	
Retracted range of rotation	Fixed 0° azimuth -36° to -90° pitch	(0 = UAV body heading) (0 = UAV water line)	

2 + 1 LENS CAMERA

Extractable gimbal mount			
2-axis stabilized gimbal			
Resolution: 1280 x 720 HFOV: 60° WFOV – 3° - 1.5° DFOV	Visible 400-700 nm Zoom: x20 + x2 digital (x40)		
Resolution: 640 x 480 HFOV: 32° W.FOV – 8° DFOV	LWIR uncooled (8-14µm) Zoom: x4 digital		
+/- 166° azimuth -70° to +10° pitch	(0 = UAV body heading) (0 = UAV water line)		
Fixed 0° azimuth	(0 = UAV body heading)		
-31° to -90° pitch	(0 = UAV water line)		

