

RQ-35 HEIDRUN

TECHNICAL SPECIFICATIONS



| | | |
|---------------------------|--|--|
| 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 RX and TX beamforming | Auto change of encryption 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 | +40km | Highly dependent on actual environment |

PAYLOAD

TRIPLE LENS CAMERA

2 + 1 LENS CAMERA

| | | | | |
|------------------------------------|---|--|---|--|
| Payload platform | Extractable gimbal mount | | Extractable gimbal mount | |
| Gimbal | 2-axis stabilized gimbal | | 2-axis stabilized gimbal | |
| Visible camera (EO) | 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) |
| Thermal camera (IR) | | | Resolution: 640 x 480 HFOV: 32° W.FOV – 8° DFOV | LWIR uncooled (8-14µm) Zoom: x4 digital |
| Extracted range of rotation | +/- 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) |
| Retracted range of rotation | 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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SKY-WATCH

YOUR EYE IN THE SKY

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.

DIMENSIONS

L x W x D

WEIGHT

| | | |
|-----------------------------------|----------------------------|---------------------------|
| UAV - Ready for Take-Off | 1070 mm x 1650 mm x 170 mm | 2.7 kg |
| UAV Battery | 140 mm x 70 mm x 40 mm | 0.6 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 | Up to 100 min (<135 min. UKR pre-release batt.) | |
| Max wind tolerance | 16 m/s | 31 kts |
| Cruise speed (air speed) | 16 m/s | 31 kts |
| Service ceiling | 5,200 m ASL | 17,000 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 | 12 V DC |
| RQ-35 battery | 14.8 V | 10 Ah |
| Average landing area needed | 12.5m 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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