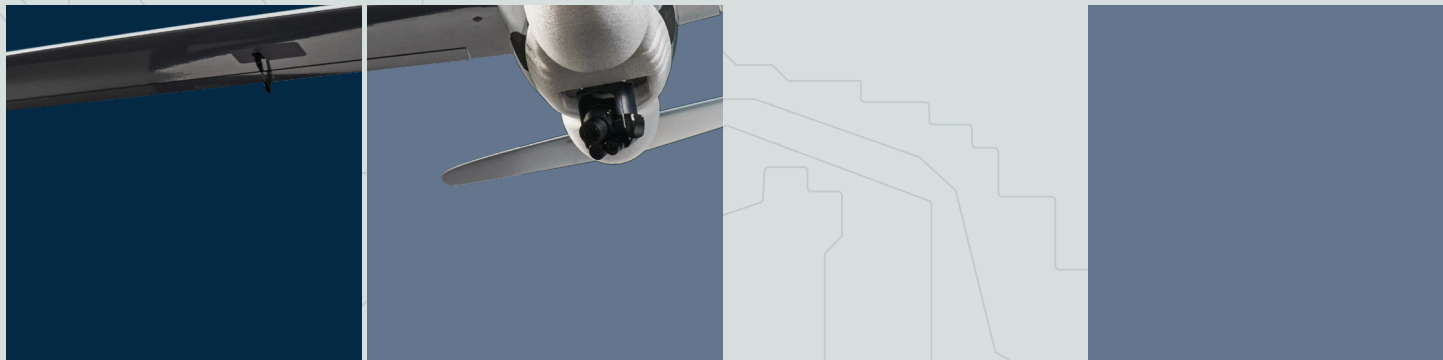




SKY-WATCH

# RQ-35 HEIDRUN

TECHNICAL  
SPECIFICATIONS



|                    |                                                                            |                                                   |
|--------------------|----------------------------------------------------------------------------|---------------------------------------------------|
| Radio frequency    | 2.2 to 2.5 GHz                                                             | 10 MHz Channel Bandwidth                          |
| Transmission power | Normal mode 0,1 Watt                                                       | Up to 2x37 dBm (2x 5W) with Autonomous boost mode |
| Spectrum Dominance | Autonomous RF channel selection<br>RX and TX beamforming                   | Auto change of encryption<br>4 encryption keys    |
| Antenna type       | UAV: Dipole antennas<br>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 50KM LOS with dual directional antennas                              | 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: 1280x720<br>HFOV: 60° WFOV – 1.5° – 0.75° DFOV | Visible 400-700 nm<br>Zoom: x40 + x2 digital (x80) | Resolution: 1280 x 720<br>HFOV: 60° WFOV – 3° – 1.5° DFOV | Visible 400-700 nm<br>Zoom: x20 + x2 digital (x40) |
| Thermal camera (IR)         |                                                            |                                                    | Resolution: 640 x 480<br>HFOV: 32° W.FOV – 8° DFOV        | LWIR uncooled (8-14µm)<br>Zoom: x4 digital         |
| Extracted range of rotation | +/- 155° azimuth<br>-70° to +10° pitch                     | (0 = UAV body heading)<br>(0 = UAV water line)     | +/- 166° azimuth<br>-70° to +10° pitch                    | (0 = UAV body heading)<br>(0 = UAV water line)     |
| Retracted range of rotation | Fixed 0° azimuth<br>-36° to -90° pitch                     | (0 = UAV body heading)<br>(0 = UAV water line)     | Fixed 0° azimuth<br>-31° to -90° pitch                    | (0 = UAV body heading)<br>(0 = UAV water line)     |





SKY-WATCH

# RQ-35 HEIDRUN

## 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                   | 150 min - Dependent on actual environment                  |                    |
| 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<br>Low Battery<br>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   |

Østre Allé 6F  
DK-9530 Støvring  
+45 9686 7666  
sales@sky-watch.com  
cvr/vat 32653847  
[www.sky-watch.com](http://www.sky-watch.com)

