



DATASHEET

Airolit S1



AIROLIT S1

Airolit S1 is a Swedish made UAV, especially developed for ISR and as a Flexible Payload Carrier operating in all weather conditions.

The S1 offers a wide range of high-performance sensors and cameras, including up to 80x zoom, thermal imaging and object tracking.

Custom sensors can also be integrated with Airolit S1 and with its flexible payload-system it is easy to switch between payloads.

KEY FEATURES

- + Flight time 75min
- + Flexible payload system
- + Payload capacity 3kg
- + All weather operations
- + Tether station compatible

PAYLOAD

Airolit S1 offers a range of standard payloads but is also designed for easy integration of custom payloads.

- + ISR cameras
- + Inspection cameras
- + Cassette for laying optic fiber
- + Loudspeaker
- + Training & Simulation Payload
- + Custom payload up to 3 kg



| SPECIFICATION | | NAVIGATIONAL FEATURES | |
|----------------------------------|---|-------------------------------|--|
| Гуре | Multicopter (Quadcopter) | Flight modes | Position, Altitude, Stabilize, etc |
| Jnfolded Size | L530 x W530 x H175mm | Missions | Yes, advanced mission planner |
| Folded Size | L300 x W300 x H175mm | Safety features | Warning, Return-to-home, emergen |
| Number of Motors | 4pcs, 450kV | | landing etc |
| Weight (w/o battery) | 1.5kg | | |
| Maximum Take-off Weight (MTOW) | 6.4kg | PAYLOAD | |
| | | Mounting | Under, Top |
| FLIGHT SYSTEM | | Max Weight | 3kg (16Ah) / 2kg (30Ah) |
| Flight Controller | PX4 | | |
| Open Source | Yes | SENSOR SUPPORT | |
| Automatic Positioning (GNSS/GPS) | GPS/GLONASS/BeiDou/Galileo | FPV Camera | Sony Starvis IMX462 (Default) |
| Navigation light | Yes | Flir Hadron 640R | Option |
| Remote ID | Optional | NextVision DragonEye2 | Option |
| RTK | Ready | NextVision NightHawk2-UZ | Option |
| Redundancy | 3xIMU, 3xMag, Barometer | NextVision X80 | Option |
| Companion Computer | Yes, CM4 | Sony ILX-LR1 | Option |
| | | Workswell Wiris Enterprise | Option |
| BATTERY | | Custom sensors | Upon request (i.e. Lidar, Multispectra |
| Гуре | External, Solid State Li-ion | | Cameras etc) |
| Capacity | 16Ah or 30Ah | | |
| Voltage | 22,2V | FLIGHT TIME | |
| Energy | 355Wh or 666Wh | w/o Payload (30Ah battery) | 75min |
| Weight | 1.6kg or 2.6kg | w/o Payload (16Ah battery) | 60min |
| GCS & RADIO | | OPERATIONAL PERFORMANCE | |
| Option 1 | Herelink 1.1 | Max Speed | 28m/s |
| Display | 5,5" | Max Ascending/Decending Speed | 8m/s, 4m/s |
| /ideo Quality | 720p / 1080p @ 30fps | Max Wind Speed | 25m/s |
| Connection | USB, Bluetooth, WiFi Hotspot | Temperature range | -20°C to +50°C |
| Operation Frequency | 2,4GHz | Operational Ceiling | 4000m |
| Range Control | ≤15km | Weather Resistance (IP) | IP55 |
| Range Video | ≤10km | Deployment time | Under 2 minutes |
| Encryption | AES-128-CTR | | |
| | | TRANSPORT CASE (OPTIONAL) | |
| Option 2 | UXV SRoC | Size | 62.5 × 50 × 36.6 cm |
| Display | 7" | | |
| Video Quality | 720p / 1080p @ 30fps | ACCESSORIES | |
| Connection | USB, Bluetooth, WiFi Hotspot | Extra battery | Option |
| Operation Frequency | 2,4GHz (custom options available) | Extra propellers | Option |
| Range Control | ≤10km w default antennas | RTK Base station | Option |
| Range Video | ≤7km w default antennas | Leg extension | Option |
| Encryption | AES-128-CTR, AES-256-CTR | Loudspeaker | Option |
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| | | OTHER | |
| | | Warranty | 1 year |
| | | Compliance | CE |



AIROLIT AB

Östergårdsgatan 7

431 53 Mölndal

phone: +46 10-405 60 90

mail: info@airolit.com