

VTOL sUAS

Industry-Leading Small Unmanned Aircraft System

AERIAL
RECONNAISSANCE



Field Tested, Battle Proven sUAS Platform

Datron delivers an industry-leading vertical takeoff and landing (VTOL), man-portable, small unmanned aircraft system (sUAS). Our VTOL solution requires no launch equipment, enables fixed-hover positioning for precise observation, and provides low -risk retrieval on land and ship. Field tested and battle proven, our sUAS platform sets the standard for organic intelligence gathering.

Single Operator sUAS Platform

Our VTOL sUAS features extended flight time and range, dual EO/IR payload and streamed user interface. The Aeryon SkyRanger allows a single operator to stream high definition video and photography for infantry or dismounted soldiers conducting tactical surveillance operations.

Ease of Use/Tablet Control

The SkyRanger includes a tablet-based interface or manual controller using proven autonomous flight control software. The touchscreen provides a control platform designed for ease of use with takeoff and landing, and manual or programmed flight. The SkyRanger's advanced autonomous capabilities ensure reliable flight performance, delivering immediate and actionable intelligence to the operator in the field.

Payloads/Accessories

The SkyRanger's versatility lies in the wide range of camera payloads and accessories available. Payloads include gimballed EO/IR, 30X Optical Zoom, and a variety of custom payloads that extend operational capabilities. SkyRanger accessories include a smart battery charger, range extending directional antenna and an integrated GIS capability.

Integration

The SkyRanger's encrypted, low latency, and all digital network allows the real-time video feed to be streamed to multiple devices over a C4I network. Mobile Ad-Hoc Network (MANET) communications can also be embedded in the SkyRanger, further expanding communications networks as well as flight range.

Key Features

- Vertical Takeoff and Landing (VTOL)
- All-Weather Day-Night, All Hazard operation
- Touchscreen Controller
- Dynamic flight planning
- Dual EO & IR and 3-axis Gimballed 30x Optical Zoom Payloads
- Intelligent Imagery
 - Embedded Metadata/Geotags
- Intelligent Battery Technology
- All Digital Network
- GPS (DGPS- and WAAS-capable)
- FalconView
- Pix4D - Integrated GIS Capability
- Rugged Directional Antenna





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Subject to export regulations.
Specifications subject to change without notice.
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Specifications

- OPERATIONAL RANGE Up to 6.2 miles (10 km)
- OPERATIONAL DURATION Up to 50 minutes
- OPERATIONAL CEILING 450m AGL (1,500 ft.)
- OPERATIONAL TEMPERATURE -30°C to +50°C
- WEIGHT (W/O PAYLOAD) 5.3 lbs. (2.4 kg) approximately
- MATERIAL Polycarbonate
- GROUND SPEED 40 mph (65 kmh)
- WIND TOLERANCE Up to 40 mph (65 kmh)
gusts up to 56 mph (90 kmh)
- DIMENSIONS (DEPLOYED) 40 in. x 40 in. x 9.3 in.
(102 cm x 102 cm x 24 cm)
- POWER SOURCE Lithium polymer
Smart battery
- COMMUNICATIONS Low-latency
All-digital network
 - 900 MHz
 - 2.4 GHz
 - MANET
 - Custom
- SECURITY
 - Secure network pairing
 - AES 256 Encryption
- IMU Custom design
(15+sensors)
- GPS CAPABILITY WAAS, EGNOS, MSAS, GAGAN Capable
- AUTONOMY GPS waypoint profiles, fail-safe return home
- PAYLOAD OPTIONS
 - Stabilized dual EO/IR high resolution camera
 - 3-axis stabilized high resolution still camera
 - 30X optical zoom payload
 - Custom payloads



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