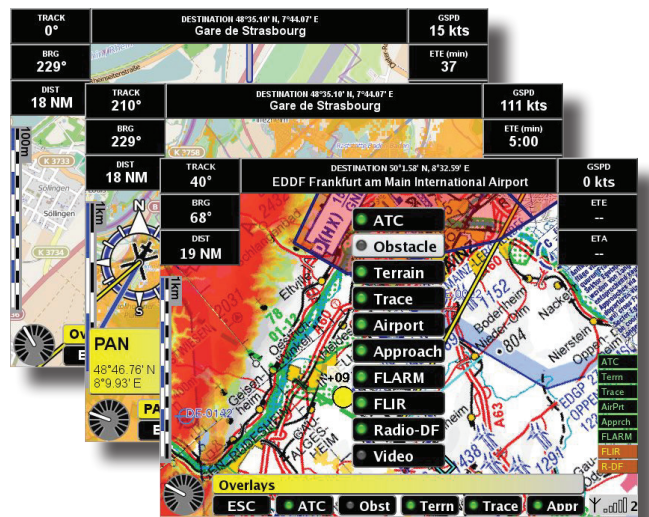# AvioScout Mission
# Moving Map



The AvioScout Mission Moving Map is an affordable multi-function mission management system for law enforcement, public safety, search and rescue, and ISR users. The AvioScout Mission is a self-contained, rugged, panel mount system with a built-in high precision GPS receiver. The system integrates a variety of ATC, airport and street maps with user selectable overlays such as terrain and obstacle, camera image with line of sight and field of view, traffic (TCAS, ADS-B, FLARM) and Direction Finder bearing. The AvioScout Mission increases your situational awareness, improves safety and quickly helps you convey position and target information.

The system can provide flight tracking and two way messaging through an internal Iridium modem. The aircraft's position, status and route is sent through a central server that is accessed by the user's home base to monitor aircraft progress and to send updated mission details and position via text back to the aircraft. This increases the ground operator's situational awareness and leads to greater efficiency, less workload fo the pilots, and overall cost savings.

- Affordable multi-function mission management system
- For law enforcement, public safety, search and rescue, and ISR users
- Variety of maps and overlays
- Flight tracking with two way text
- Full Command & Control

The AvioScout Mission is certified by EASA to ETSO-C113 with DO-178 level D and DO-160 qualification.

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# AvioScout Mission

## Technical Data:

- **Supply voltage:**  9VDC to 32.5VDC
  Nominal 14VDC, 28VDC

- **Current Consumption:**  Typical with max. brightness
  1.6A at 14V
  0.8A at 28V

- **Standby (Off Mode):**  0.04A at 14V
  0.02A at 28V

- **Internal Fuse Protection:**  5A Fast-Blow, SMD Nano Fuse

- **Operating Temperature:**  -30°C to +55°C
  (short time +70°C)

- **Storage Temperature:**  -55°C to +85°C

- **Operating Altitude:**  ≤ 25,000 feet

- **Crash Safety:**  Cat. B

- **Vibration Resistance**  Cat. U2 F1/F2 for Rotary-Wing

- **Humidity (RTCA DO-160G):**  Cat. A / +50°C 95%, 48H

- **Interfaces:**

    - **USB:**  USB front port for applications data transfer

    - **D-Sub 50W Male:**  Video In, ARINC-429 X4-In, X1-Out

    - **D-Sub 43W2 Male:**  Power, GPS, Iridium, extrenal dim-bus. X4 RS232 X3 RS422. Inputs for 14V and 28V

- **Qualification:**  DO-160G Env. Cat. B4CAB[U2FF1]XXXXXXZBXIA-BACBBXXXAX

- **Certification:**  Product: ETSO C113. Software: DO-178C level D

- **Dimensions:**  161mm X 160mm X 90mm
  (6.34" X 6.30" X 3.54")

- **Unit Weight**  1.8kg (3.97lb)

- **Mounting Tray Weight:**  0.25kg (0.551lb)

## Computer Details:

- **CPU:**  Intel Embedded Atom N455
  1.66GHz Single Core

- **DRAM:**  2GB DDR3

- **Solid-State Memory:**  16GB SATADOM

## Display Details:

- **Type:**  Active Matrix TFT

- **Active Screen Size:**  6.5" Diagonal

- **Screen Resolution:**  640X480 (VGA)

- **Support Colors:**  16.2M / 262k Colors

- **Surface Treatment:**  Anti-Glare, Anti-Reflection

## GNSS Receiver Details

- **GPS:**  1,575.42MHz; L1 C/A Code

- **GLONASS:**  1,602MHz, L10F

- **SBAS L1:**  WAAS

- **Channels:**  32 Parallel

- **Tracking Sensitivity:**  -164dBm

- **Position Accuracy:**  2.0m CEP

- **External GPS Antenna:**  Airborne Type 5VDC
  (antenna not included)

- **Nominal Impedence:**  50Ω

## Accessories (sold separately):

- Airframe GPS Antenna
- Cockpit GPS Antenna
- Connector Kit (Crimp)
- Connector Kit (Solder)
- Mounting Tray

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