BECKER AVIONICS

AvioScout

Mission Moving Map System

FEATURES

- Built-in high precision GPS/GLONASS receiver
- Trafic Overlays (TCAS, ADS-B, FLARM)
- Terrain and obstacle data
- FLIR/EOS Camera picture with line of sight and ield of view
- Built-in Iridium modem
- Flight tracking with two-way text
- Suited for law enforcement, public safety, search and rescue, and ISR users
- ETSO-C113 certiication with DO-178 level D and DO-160 qualiication

SPECIAL MISSION

OVERVIEW

The AvioScout Mission Moving Map is an afordable 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/GLONASS 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 ield of view, tra c (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 light tracking and two-way messaging through an internal Iridium modem. The aircraft's position, status and route is sent to a central server that is accessed by the user's home base to monitor aircraft progress and to send updated mission details via text and position back to the aircraft. This increases the ground operator's situational awareness and leads to greater e ciency less workload for the pilots, and overall cost savings.

BENEFITS

- Afordable multi-function mission management system
- Cost efective command and control
- Compact and lightweight design
- Field-proven reliability
- Robust and maintenance-free hardware

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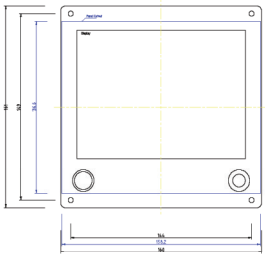
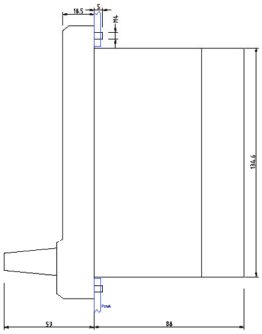
TECHNICAL DATA





Voltage	9.0...32.5 VDC
Current Consumption	Typical with max. brightness 1.6 A at 14 VDC 0.8 A at 28 VDC
Standby (Off Mode)	0.04 A at 14 VDC 0.02 A at 28 VDC
Internal Fuse Protection	5 A Fast-Blow, SMD Nano Fuse
Operating Temperature	-30...+55 °C (short time +70 °C)
Storage Temperature	-55...+85 °C
Operating Altitude	≤ 25,000 feet
Crash Safety	Category B
Vibration Resistance	Category U2 F1/F2 for Helicopter
Humidity (RTCA DO-160G)	Category A +50°C at relative humidity 95 % for 48H
Interfaces	USB port in the front
D-sub 50W Male	Video in, ARINC-429 4 x in, 1 x out
D-Sub 43W2 Male	Power, GPS, Iridium, external dim-bus 4 RS232, 3 RS422 inputs for 14V and 28V
Qualiication	DO-160G Env. Cat. = environmental category B4CAB[U2FF1]XXXXXXZBXIABACBBXXXAX
Certiication	ETSO C113a
Software	DO-178C Level D
Dimensions	161 x 160 x 90 mm (6.34 x 6.30 x 3.54 inch)
Unit Weight	1.8 kg (3.97 lb)
Mounting Tray Weight	0.25 kg (0.551 lb)
Computer Details	
CPU	Intel Embedded Atom N455 1.66 GHz Single Core
DRAM	2 GB DDR3
Solid State Memory	16 GB SATADOM
Display Details	
Type	Active Matrix TFT
Active Screen Size	6.5” Diagonal
Screen Resolution	640 X 480 (VGA)
Supported Colors	16.2 M / 262 k Colors
Surface Treatment	Anti-Glare & -Relective
GNSS Receiver Details	
GPS	1,575.42 MHz L1 C/A Code
GLONASS	1,602 MHz L10F
SBAS L1	WAAS
Channels	32 Parallel
Sensitivity	-164 dBm
Position Accuracy	2.0 m CEP
External GNSS Antenna	Airborne Antenna 5 VDC (Antenna not included)
Nominal Impedance	50 Ω
Accessories	Airframe GPS Antenna Cockpit GPS Antenna Connector Kit (Crimp) Connector Kit (Solder) Mounting Tray

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