

AVIDYNE® HELIOS

FMS | GPS

Helicopters require avionics specifically designed for the unique rigours of corporate, military and special mission rotary-wing flight which is why we created Avidyne Helios. Helios is a new multifunction Satellite-Based Augmentation System (SBAS) flight management system that provides full Required Navigation Performance (RNP) and Area Navigation (RNAV) capability, including Localizer Performance with Vertical (LPV), Lateral Navigation/Vertical Navigation (LNAV/VNAV), LNAV-Only, and Approach Procedures with Vertical (APV) approach modes in a dzus-mount.

But true capability required ease-of-use which is why we built-in features like easy flight planning, one-touch departure, airway, and arrival navigation, and included our patented GeoFill™ waypoint nomination. We even included a full keyboard and touch-screen input for easy map panning and flight plan editing.



- **HELIOS FMS for Helicopters**
- **HELIOS retains all the same great features of the panel-mounted IFD Series in a 5.75-in. dzus-width form factor**
 - Hybrid Touch
 - Page & Tab User interface
 - GeoFill™ makes data entry easier
 - 3D Synthetic Vision
 - Jeppesen® Approach Charts & Airport Diagrams
 - Terrain Awareness & Forward-Looking Terrain Alerting (FLTA)
 - Wireless Connectivity
- **Adds full QWERTY-style dedicated keyboard**



Avidyne HELIOS - The Right Fit

Specifications

Display

- 5.7" Diagonal w/Touch Screen
- Full VGA - 640 x 480 pixels
- 65,535 colors
- Ultrabright sunlight readable w/LED Backlighting

Dimensions

- Height 7.500" (190.50 mm)
- Width 5.750" (146.05 mm)
- Depth 9.885" (251.08 mm)
- Depth w connectors 11.900" (302.26 mm)
- Weight 8.50 lbs (3.855 kgs)

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Power Requirements

- 11 - 33VDC at 2.2A(4.0A XMIT at 28VDC)

Environmental

- DO 160E
- To 50,000 Ft
- -20C to +55C Operating
- +70C Short Term

GPS

- 16-Channel GPS/SBAS Receivers
- RTCA DO-178B and DO-254 Level B,
- RTCA DO-160E
- Meets DO-229D, Beta Class 3

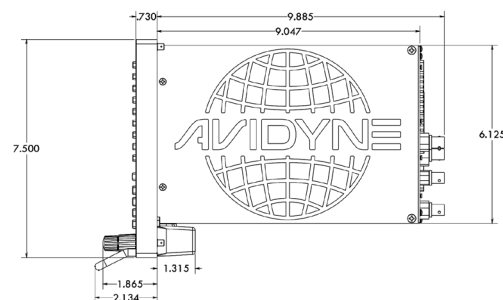
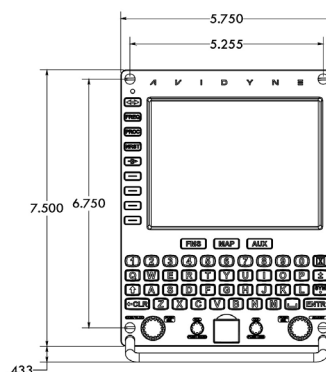
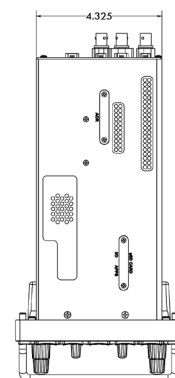
Optional VHF & VOR/LOC

- 16 Watt transmitter (Class 3, 5)
- Simultaneous reception of two channels, voice or data
- 8.33KHZ or 25KHZ Operation (Class C, E)
- VOR - RTCA DO-196
- LOC - RTCA DO-1965
- UHF GS - RTCA DO-192

Applicable TSOs

- TSO-C34e - ILS Glide Slope Receiving Equipment Operating within the Radio Frequency Range of 328.6-335.4 Megahertz (MHz)
- TSO-C36e - Airborne ILS Localizer Receiving Equipment Operating within the Radio Frequency Range of 108-112 Megahertz (MHz)
- TSO-C40c - VOR Receiving Equipment Operating within the Radio Frequency Range of 108-117.95 Megahertz (MHz)

- TSO-C44c - Fuel Flowmeters
- TSO-C110a - Airborne Passive Thunderstorm Detection Equipment
- TSO-C112e - Air Traffic Control Radar Beacon System/Mode Select (ATCRBS/ Mode S) Airborne Equipment
- TSO-C113a - Airborne Multipurpose Electronic Display
- TSO-C118 - Traffic Alert and Collision Avoidance System (TCAS) Airborne Equipment, TCAS I
- TSO-C128a - Devices that Prevent Blocked Channels Used in Two-Way Radio Communications Due to Unintentional Transmissions
- TSO-C146d - Stand-Alone Airborne Navigation Equipment Using the Global Positioning System (GPS) Augmented by the Wide Area Augmentation System (WAAS). Airborne Supplemental Navigation Equipment Using the Global Positioning System (GPS) - Gamma 3
- TSO-C147 - Traffic Advisory System (TAS) Airborne Equipment - Class A (Display Functions Only)
- TSO-C157a - Aircraft Flight Information Services - Broadcast (FIS-B) Datalink Systems and Equipment
- TSO-C165 - Electronic Map Display Equipment for Graphical Depiction of Aircraft Position
- TSO-C169a - VHF Radio Communications Transceiver Equipment Operating Within The Radio Frequency Range 117.975 To 137.000 Megahertz - Class C, E, 3 and 5



* Features and options subject to change without notice.