

AVIDYNE® IFD545 FMS/GPS



Avidyne FMS/GPS Upgrade Options for King Air

Avidyne IFD545 Flight Management System sets a new standard for integration in King Air navigation systems. Designed with real world flying conditions in mind, the IFD545 flight management system incorporates significant technology advancements that rival most GPS navigators on the market. Every detail and function of the IFD545 is engineered with purpose: to make flying simple, safer, and more enjoyable.

The IFD545 includes unique features such as a modern touchscreen with familiar knobs and buttons should touchscreen become cumbersome while flying in inclement weather. The easy-to-use Page & Tab interface makes necessary function location simple to find in two clicks or less. Avidyne's exclusive FMS Preview™ is a powerful flight planning feature that makes it even more intuitive to load flight plans by showing you a real-time graphical depiction of each proposed modification in Cyan prior to selection.

Additional Features:

- 3D Synthetic Vision with Terrain Awareness and FLTA
- Electronic Approach Charts and Airport Diagrams
- Integrated WiFi and Bluetooth®
- Compatible with Foreflight®, flightplan.com and other 3rd Party EFBs
- IFD100 App for iPad®
- 4-year warranty



IFD545 and AXP340

The Avidyne IFD5-Series

	IFD550	IFD545	IFD540	IFD510
FMS/GPS	✓	✓	✓	✓
VHF NAV	✓	✗	✓	✗
VHF COM	✓	✗	✓	✗
3D SVS	✓	✓	✓	✓
ARS + Dynamic SVS	✓	✓	✗	✗
WiFi/BT/FLTA	✓	✓	✓	✓
Radar	—	—	—	—
Video	—	—	—	—

Icon Key

✓ Standard

— Optional

✗ Unavailable

Transponder Options

Avidyne has a complete suite of ADS-B Transponders to meet the needs of any operator. Whether the objective is compliance with a mandate or compliance with enhanced surveillance with Dual Band ADS-B In capability our product lines can meet your needs.

AXP-340 ADS-B Out Mode S

As part of our SkyTrax ADS-B line, the ADS-B Out AXP340 is a panel-mounted Class 1 Mode S Level 2 Datalink Transponder, with support for 1090MHz Extended Squitter (ES), that meets all the current requirements for Mode S elementary surveillance transponders for both IFR and VFR flight. The AXP322 remote mount transponder is also available.



Lynx™ NGT-9000

The Lynx NGT-9000 is a fully-compliant panel-mounted ADS-B Mode S Transponder with dual-band ADS-B IN capability. The Lynx NGT-9000 features a full touch screen display of subscription-free weather data, including METARs, AIRMETs, SIGMETs, and NEXRAD graphical displays overlaid on a moving map. Lynx's Traffic and Weather can also be displayed on the Avidyne IFD Series. The NGT9000R remote mount transponder is also available.

WX Radar

Optional interface for BendixKing RDR2000-series digital radar systems, including support for Vertical Profile™, and can replace legacy radar indicators or act as a repeater display with certain EFIS systems for added redundancy.



Video

Options include the ability to display RS-170 video using any compatible camera or video source.



Avidyne FMS/GPS Upgrade Solution: King Air Aircraft

Flight Deck Upgrade Features

The IFD545 FMS features are designed for upgrading obsolete GPS systems equipped in Beechcraft King Air aircraft. As a slide-in replacement for the obsolete GNS units, the Avidyne upgrade offers a feature-rich and affordable solution that will dramatically increase flight deck capabilities and greatly reduce installation time. With this minimally invasive approach, operators can achieve modernization in less time.



IFD545 FMS/GPS

The IFD545 has all the same FMS/GPS functionalities as the IFD550 but without VHF navigation and communication. The IFD545 features ARS and Dynamic SVS, including WiFi/Bluetooth®, FLTA and more.

Exclusive Avidyne GLAS™ Functionality

Avidyne GPS Legacy Avionics Support (GLAS) provides a direct interface to legacy Collins Proline 21 and Honeywell Primus EFIS systems for vertical guidance during approach operations. The unique integration capability enables EFISs certified before the availability of LPV approaches to have coupled approach guidance on these and other SBAS approaches.

Flight Planning Made Easy

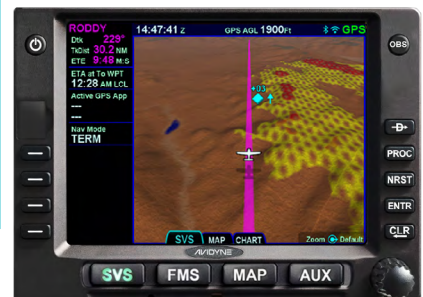
Entering and editing Flight Plans has never been easier than with the Avidyne IFD545. It features easy-to-use flight planning with easy airway navigation, Avidyne's exclusive GeoFill™ waypoint nomination, and full autopilot integration. Its cross-fill capability automates the process of synchronizing flight plans in dual-FMS installations.

Electronic Charts & Airport Diagrams

Avidyne IFD5-Series innovative implementation of Jeppesen's® chart services displays electronic terminal and approach charts and airport diagrams and includes a geo-referenced overlay of ownship present position and current flight plan. Easily updateable via the USB port on the IFD545 bezel.

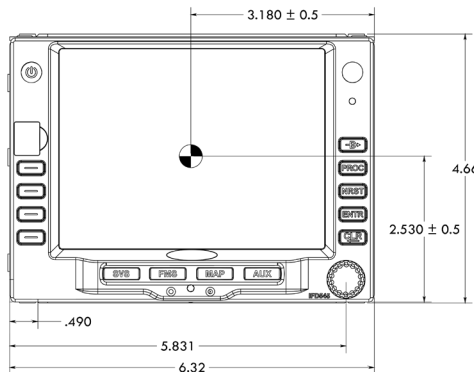
3D Terrain & FLTA

Terrain Awareness (SVS-TA) is provided via hashed coloration of terrain. Textual and aural alerts are provided for terrain hazards. Forward Looking Terrain Alerting (FLTA) displays an impact point based on projected flight path. FLTA also provides visual CAS messaging & aural alerting.



Avidyne IFD545 - The Right Fit

Specifications



Display(IFD550/545/540/510)

- 5.7" Diagonal w/ touchscreen
- Full VGA - 640x480 pixels
- 65,535 colors
- Ultrabright sunlight readable w/ LED backlighting

Dimensions

- Width: 6.30" (16.0cm)
- Height: 4.60" (11.7cm)
- Depth: 11.00"(27.5cm) behind panel including connector

Weight

- IFD550 - 9.19 lb (4.17 kg)
- IFD540 - 8.79 lb (3.99 kg)
- IFD545 - 7.48 lb (3.39 kg)
- IFD510 - 7.13 lb (3.23 kg)

Power Requirements

- 11 - 33VDC
- 4.4A/6.5A Xmit @ 14vdc
- 2.2A/4.0A Xmit @ 28vdc

GPS

- 16-Channel GPS/SBAS Receivers
- RTCA DO-178B and DO-254 Level B,
- RTCA DO-160E
- Meets DO-229D, Beta Class 3
- Accuracy:
 - Autonomous Position
 - 3 meters (CEP 50%)
 - 5 meters (95%)
 - SBAS Differential Position
 - 1 meter (CEP)
 - 3 meters (95%)
 - Velocity Accuracy 0.1 knots (95%)
- Dynamics:
 - Acceleration : 10g max
 - Speed : 1,000 knots
 - Altitude : 50,000 ft

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-196S
- UHF GS - RTCA DO-192

Warranty

- 2 or 4 year warranty
- AeroPlan™ extended warranty available

I/O

See website for complete list of Interfaces. www.avidyne.com

Power Requirements

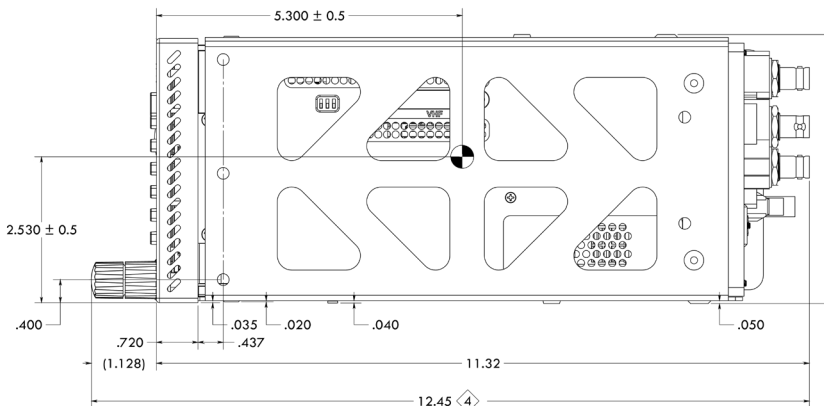
- 10 Watts nominal
- Optional 16Watt (for 28vdc installations only)

Environmental

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

Cooling

- Built in cooling
- External cooling provision available



* Features and options subject to change without notice.