Avionics is what we do. It’s ALL we do. We’re a team of pilots and aviation enthusiasts who solve real-world flying problems. Everything we do is with your safety top-of-mind and from your point of view.

When it comes to developing avionics, our primary goal is to ensure that you can find what you need fast allowing you keep your head up and focused on the sky.
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WHO WE ARE

At Avidyne, everything we design is with a pilot-centric point of view. We have many experienced pilots in our design and engineering teams, many of whom have logged thousands of hours in civilian and military aircraft. When it comes to developing avionics, our primary goal is to ensure that you can find what you need fast, letting you keep your head up and in the game.

“As a pilot and aircraft owner, I was struck by how little GA cockpits had changed over the last 30 years. I saw huge potential to develop a core technology and define a new generation of avionics that improve flying safety.”

Dan Schwinn
President & CEO

LOCATIONS

Melbourne, FL
HQ & Manufacturing

Concord, MA

Westerville, OH
A HISTORY OF FIRSTS

Avidyne has been the technology leader in general avionics for over 25 years and since our inception we’ve been at the forefront of innovation. And along the way, we have racked up a number of industry firsts.

1997
1st with stand alone 5” MFD (FSD)

2003
1st to certify Big Glass Integrated Flight Deck for light GA

2007
1st color tactical lighting sensor for GA

2010
1st digital retrofit autopilot with Env Protection & Straight/Level

2014
Avidyne’s first plug-and-play GPS/NAV/COM/FMS

2014
1st to certify integrated WiFi & Bluetooth® connectivity

2017
1st certified panel-mount GPS with integrated Synthetic Vision

2017
1st certified panel-mount GPS with integrated Synthetic Vision
For more than 25 years, Avidyne’s primary focus has been, and always will be, the development and delivery of premium avionics for the general aviation community.

It all started with a single idea; that there has to be a better, safer way to fly single-pilot IFR. Made by pilots for pilots, our avionics are designed for workload reduction and simplicity of operation for the single pilot.
Avidyne’s FMS/LPV/ADS-B systems provides a better, more affordable way to navigate the skies. Avidyne’s IFD Series is a full-featured FMS in an easy-to-use, yet powerful design. Each IFD provides SBAS/LPV precision navigation designed to meet accuracy and integrity requirements for ADS-B as part of the NextGen airspace initiative. Avidyne’s line of avionics for business jets are engineered for simplicity with the latest in pilot-centric technology including knobs and buttons to augment touchscreen operation in times of turbulence and inclement weather.
Avidyne’s IFD Series GPS Navigators for helicopters were designed with real world flying conditions in mind. This means every detail and function of our IFD Series is engineered with purpose: to make flying, whether it be fixed wing or rotorcraft, simpler and safer. That’s why we included knobs and buttons to keep eyes outside. In times of turbulence, instability, or inclement weather, Avidyne’s IFD Hybrid Touch user interface gives pilots the choice based on phase of flight and pilot preference.
Fleet operators know that uptime is one of the critical aspects of your business. A grounded aircraft costs money and degrades service levels. Fortunately, Avidyne is designed to keep your fleet not just up and running, but operating with the technology and features that will last you for years to come. Uptime means being able to rely on an easy swap out of your old GNS units and no cutting into your panels. With the IFD Series and SkyTrax ADS-B systems for your entire fleet, you’ll be sure to minimize downtime and maximize profits.
THE IFD SERIES

The most intuitive FMS/GPS/NAV/COM in the sky

As the heart of your ADS-B system, Avidyne’s IFD Series FMS/GPS/NAV/COM represent the next generation in flight management systems. Each provides SBAS/LPV precision navigation and is designed to meet the accuracy and integrity requirements for ADS-B as part of the NextGen airspace initiative as well as international airspace. As direct replacements for legacy systems, the IFDs each share the same basic functionality in large and compact display formats respectively.

IFD Series Features

- Touchscreen GPS/NAV/COM with Knobs and Buttons
- LPV Vertical Guidance
- Synthetic Vision with Integrated Traffic
- Coupled Approaches
- 3D Terrain Awareness and FLTA
- Low Fuel Alerting with compatible Fuel Totalizer System
- ADS-B Compliant Position Source
- Built-in Bluetooth® and WiFi
- IFD100 App for iPad
- Direct Slide-in Replacements of old GNS Systems
- Wireless Interface to Third-Party Flight Planning and Mapping Applications such as Foreflight®
Navigation at your fingertips
Get where you need to go. That’s why we fly. Avidyne wants you to keep your head up when flying with your family and loved ones. That’s the reason Avidyne designed their FMS to be as user-friendly as possible. Go where you need to go in two clicks or less.

Made for each other.
The IFD Navigators are key components in Avidyne’s panel-mounted avionics suite, which also includes the AMX240 Audio Panel, AXP340 ADS-B Mode S Transponder, and DFC90 Digital Autopilot.

The IFD Series Feature Comparison

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AXP340: PANEL MOUNT

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.

As a slide-in replacement for existing KT76A/KT78A transponders, the AXP340 is designed to easily upgrade existing Mode A/C equipment to Mode S, while adding additional functionality like a Direct-entry Numeric Keypad, Pressure Altitude & GPS Lat/Lon readout, Flight ID entry, one-touch VFR code entry, an easy-to-use Stop Watch Timer, Flight Timer, and Altitude Alerter.

AXP322: REMOTE MOUNT

The ADS-B Out AXP322 transponder is a remote-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.

It is designed to be controlled with Avidyne’s IFD Series GPS/NAV/COM systems. It transmits the required ADS-B Out signals including your aircraft’s GPS-derived position via 1090MHz, along with ground track, ground speed and altitude information.
Using the 978MHz datalink frequency band, which is one of two channels available to pilots in the United States airspace for ADS-B In, Avidyne’s SkyTrax100B ADS-B In Receiver provides Flight Information System-Broadcast (FIS-B) weather information, including NEXRAD radar, METARs, TAFs, AIRMETs, SIGMETs, Special Use Airspace (SUA), and Temporary Flight Restrictions (TFRs).

The SkyTrax100B will also receive traffic information directly from nearby 978MHz-equipped aircraft, and indirectly through the rebroadcast of 1090MHz-equipped aircraft via 978MHz ADS-R. Traffic information from aircraft not participating in ADS-B is received from ground stations via 978MHz TIS-B transmissions (Traffic Information Service-Broadcast).
SKYTRAX600: TAS

Active Traffic with ADS-B

Traffic Advisory Systems (TAS), which are based on the technology originally developed for air-transport category traffic alert and collision avoidance systems (TCAS), have been available for general aviation aircraft for several years, but have been cost-prohibitive for many owner-flown aircraft. Until now.

With the new dual-antenna SkyTrax600 Series, Avidyne offers three different TAS-A systems (SkyTrax605, SkyTrax615 and SkyTrax620), tailored for the type of aircraft you fly. These feature-rich, value-priced SkyTrax systems are fully TSO certified, surpassing the performance capabilities of many higher-cost traffic systems and setting a new standard for active-surveillance traffic capability and affordability.

Avidyne’s SkyTrax600 Systems detect other aircraft sooner and more accurately, so you avoid surprises due to the shadowing effects inherent with single-antenna systems. Using top and bottom directional antennas, SkyTrax600 systems actively interrogate other aircraft with or without 1090MHz ADS-B IN and provide hybridized, timely audible and visual alerts with the precise location of conflicting traffic. The SkyTrax600 Series provides full-time protection and higher performance. Because when it comes to safety, you want to see the whole picture.

- Dual Antennas provide optimal signal coverage
- Actively interrogates nearby transponders
- Optimal situational awareness and safety
- 6 Display ports for ADS-B traffic
Avidyne's DFC90 Attitude-Based Digital Autopilot enhances precision of flight and improves safety for Entegra-equipped Cirrus. The DFC90 adds the precision of an attitude-based flight control system and Avidyne's innovative, safety-enhancing Envelope Protection (EP®) capability and Envelope Alerting (EA®).

The DFC90 has all the standard vertical and lateral modes of operation of a turbine-class autopilot system, including:

- Enhanced Flight Director (FD), Altitude Hold (ALT), Airspeed Hold (IAS), Vertical Speed Hold (VS), Heading (HDG), and Navigation (NAV, APPR, LOC/GS, GPSS)

The STRAIGHT & LEVEL button recovers the aircraft from unusual attitudes. Overrides all autopilot modes and levels the aircraft in both pitch and roll from a wide range of capture attitudes for an added measure of safety.

Customers upgrading from the S-TEC 55X servos will notice several major performance and feature improvements.

The DFC90 is also available for select C182 and Bonanza models that are currently equipped with legacy STEC autopilot using the Aspen EFD1000.
The AMX240 is a full-featured audio source selector panel, intercom, and marker beacon receiver that provides outstanding features and sound quality, while incorporating large, easy-to-read, LED backlit buttons provide simple mode selection and at-a-glance annunciation of your current audio and intercom configuration.

Supporting three transmitter inputs, nine receiver inputs, plus two inputs for stereo music and five unswitched inputs, the AMX240 also features a six-place high-fidelity stereo intercom, public address (PA) function, plus Bluetooth® music and full-duplex cell phone interfaces. The AMX240 also includes dedicated COM1 and COM2 "Monitor" selection buttons to take advantage of the Avidyne IFD’s ability tune the Standby frequency while also transmitting and receiving on the active frequency.
Avidyne’s IFD-Series are the only FMS/GPS Navigators in aviation offering both built-in Bluetooth® and WiFi. With that, all IFDs offer a WiFi connection to Apple iPads with the Avidyne IFD100 iPad app. This app acts as an additional instance of an IFD, where you can edit your flight plan, monitor your map for ADS-B weather & traffic, and independently view pages. Even if you have the smaller-glass IFD400-Series, your IFD100 display will provide Big Glass capabilities at a fraction of the cost.

IFD TRAINER FOR iPad®

Fly it. Learn it. Love it.

Learn what makes the IFD GPS/NAV/COM one of the most intuitive, feature-rich flight management systems in the sky, for FREE. Get hands on experience with the IFD, become familiar with the Page & Tab interface, touchscreen with knobs and buttons, get special tips and tricks, training videos and more! Download the IFD Trainer for iPad for FREE today from the Apple Store!
CUSTOMER SUPPORT

Our customer and technical support teams are here to ensure your experience with Avidyne is best in class. The customer and technical support teams are available to answer any question you may have regarding the operation, installation and latest updates for your Avidyne equipment. To best serve our pilots, we have created a number of helpful resources that will allow you access to the latest information, documentation, tips and tricks, and more.

Knowledge Base
Everything from warranty to software updates, how to set up your IFD100 app, training information and more.

Training
Expert training for people who want to know all the features of their new equipment.

Product Documentation
All installation, technical and service information for Avidyne’s full product line.

AVIDYNE PILOT CLUB

We appreciate our Avidyne pilots. We wouldn’t be here if it weren’t for you! That’s why we created the Avidyne Pilot Club. The Avidyne Pilot Club is an elite group of pilots who share more in common than just the joy of flying; they love their Avidyne equipment. As a Pilot Club member, you gain exclusive access to insider news, Avidyne gear, merchandise, and special benefits. What’s more, if you tell a pilot friend about Avidyne and it results in a purchase, you could be eligible for special offers, discounts and possible upgrades. Join today!

On Facebook? Join the Avidyne Pilot Club Group for the latest news, updates and promotions! facebook.com/groups/AvidynePilotClub

* Closed group. Must have Avidyne product to participate. *
WHAT OUR PILOTS ARE SAYING

Baron Pilot
When I purchased the Baron, I knew I was going to add a GPS to the stack. While doing my research, I downloaded Avidyne's simulator and instantly fell in love with the IFD's logic. Put simply, the IFD is more of an FMS logic while the competition is a traditional GPS. [www.youtube.com/baronpilot](http://www.youtube.com/baronpilot)

Martin Pauly
It's impossible to not love the Avidyne IFDs. After replacing my older 530/430 with the new IFDs, the improvements jump out on every flight. My personal favorites: the complete navigation and guidance capabilities of a real flight management system and the ease of nav database updates without special hardware and tools. [www.youtube.com/martinpauly](http://www.youtube.com/martinpauly)

310 Pilot
Recently, we decided to upgrade our old GNS system. We visited with multiple manufacturers producing replacements. It was a unanimous decision, we decided to upgrade to a full Avidyne avionics suite. I’ve had the pleasure of flying with the full suite and I’m absolutely loving our decision to upgrade with Avidyne more and more. [www.youtube.com/310pilot](http://www.youtube.com/310pilot)

Bill Elliot, Legendary NASCAR Driver
Going fast is my business. I don’t have a lot of time to spend entering flight plans. Their FMS makes it fast and easy. The install process is seamless with very little downtime. It’s one of the many reasons I chose to go with Avidyne.

Charlie Precourt, NASA Astronaut/Shuttle Commander
I have found the combination of total capabilities and lower cost make it a great solution. Being able to do my preflight at the office, file a flight plan on Foreflight® and then load all the data to the IFD FMS via WiFi is a huge feature for me. Saves lots of time on the ground and ensures accuracy of input.