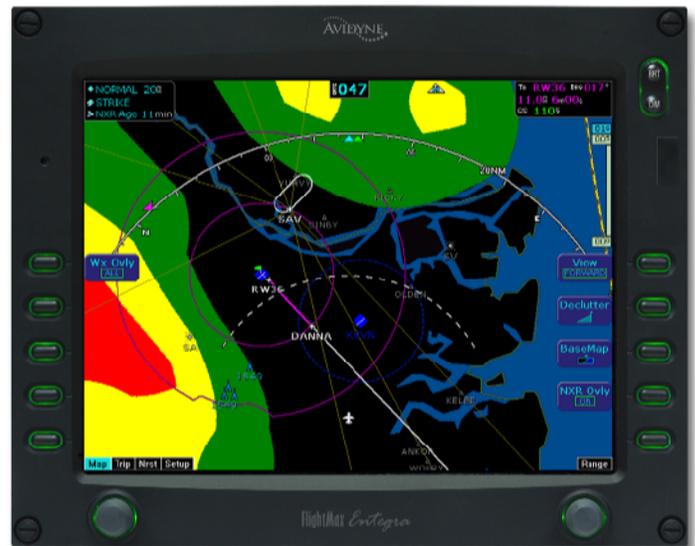


FlightMax *Entegra* Integrated Flight Deck



FlightMax *Entegra* Integrated Flight Deck



The FlightMax Entegra primary flight display (PFD) and multi-function display (MFD) are designed to provide pilots with all the information needed to manage the aircraft and safely determine routes, speeds, as well as proximity to adverse weather conditions, terrain, obstacles, and other aircraft.

With FlightMax Entegra, Avidyne brings affordable, state-of-the-art integrated display capability to the business and general aviation flight deck.

Breakthrough Technology

Virtually all new air-transport and high-end business jet aircraft are now delivered with integrated flight deck systems because of the enhanced safety, capability, and reliability of these systems.

Until now, these advanced integrated flight deck systems weren't available for light general aviation aircraft due to their cost, complexity, size, and weight.

FlightMax Entegra is a revolutionary advancement in flight deck systems, providing the safety, capability, and reliability benefits of air transport and bizjet flight decks, at cost and weight targets required for general aviation aircraft.

The Future is Now

Featuring large-format, flat panel liquid-crystal displays integrating virtually all instruments and gauges from today's panels, Avidyne's FlightMax Entegra dramatically increases situational awareness and reduces pilot workload, while also saving weight and space.

FlightMax Entegra provides you with the highest level of flight instrument integration available for general aviation aircraft, and gives you a new level of situational

awareness, safety, and reliability. All at incredible savings over what you would expect to pay for a typical EFIS system.

Completing the Picture

FlightMax Entegra presents standard flight instrumentation including attitude direction indicator (EADI), horizontal situation indicator (EHSI), altitude, airspeed, vertical speed, moving map, weather, terrain, and traffic on large 10.4-inch diagonal, high-resolution, sunlight-readable full color displays, in easy-to-read formats.

The Entegra PFD conveys traditional primary flight instrumentation as well as a pilot-selectable moving map presentation of flight plan data and an RMI pointer, all within the primary field of view, reducing pilot workload. The versatile FlightMax EX5000 MFD displays navigation data, built-in datalink weather, lightning, traffic, obstacles, and terrain with an intuitive user interface.

Catch the Wave

The fully-integrated design of FlightMax Entegra makes it ideal for high-performance singles, piston twins, turboprops, and light jets. Several original equipment manufacturers (OEMs) are integrating FlightMax Entegra into their new production aircraft, setting off a wave of integrated flight deck technology adoption not seen since the migration of EFIS from air transport to business jets.

Entering the second century of aviation, integrated flight decks are the standard for new GA aircraft, and FlightMax Entegra is leading way.



FlightMax Entegra is available in horizontal and vertical display orientations for added flexibility.



FlightMax Entegra's fully-integrated instrumentation and built-in datalink provide light general aviation with its first integrated flight deck.



FlightMax Entegra is designed for general aviation aircraft of all shapes and sizes.

FlightMax *Entegra* Primary Flight Display with Integrated ADAHRS

The PFD Advantage

The advanced technology of the FlightMax *Entegra* Primary Flight Display (PFD) provides you with the highest level of flight instrument integration available for general aviation aircraft.

The fully-integrated *Entegra* PFD puts your attitude, heading, airspeed, altitude and vertical speed instruments onto a single display, reducing workload and improving your scan.

Easy-to-Fly Trend Indicators

The *Entegra* PFD provides 6-second trend indicators for airspeed, altitude and heading. Trend indicators, typically found on air transport and high-end corporate jets, allow you to fly with higher precision and reduced workload when changing or maintaining critical airspeeds or altitudes.

Integrated EHSI

The electronic horizontal situation indicator (EHSI) puts advanced navigation display capability in your primary field of view with all of the capabilities of sophisticated EFIS systems. Fully integrated with your VLOC/GPS, FlightMax *Entegra* provides synchronized switching as you transition from the en route phase to the approach phase of your flight. When an instrument approach is selected, lateral and vertical guidance indications are presented on the attitude display for increased precision and reduced scanning.

The EHSI can be viewed in standard 360-degree compass rose, or in a 180-degree forward view, with selectable bearing pointer and flight-plan moving map display.

Integrated Autopilot Functions

The FlightMax *Entegra* PFD may be coupled with the autopilot for altitude preselect, vertical speed select and heading select modes without the need for external controllers. Selection bugs and digital readouts for each of these parameters are provided for concise operation.

Full-Time Wind Vector

An integrated air data computer provides you with a full-time instantaneous wind vector, taking the guesswork out of finding the right altitude to optimize your flight time. It is equally valuable as you correct for wind while entering the pattern or flying an instrument approach.

Simple Controls

The straight-forward user interface makes flying the *Entegra* a breeze. Human-factors studies and flight test experience suggest less is more in terms of PFD modes, and we've kept it simple, yet elegant. *Entegra* provides one-button access to frequent pilot settings such as BARO and altitude/ vertical speed/ heading bugs. Nav sources are push-button selectable for the EHSI needle, the bearing pointer, and the flight-plan moving map.

The FlightMax *Entegra* PFD was designed to have a learning curve of less than five minutes. It's that easy.



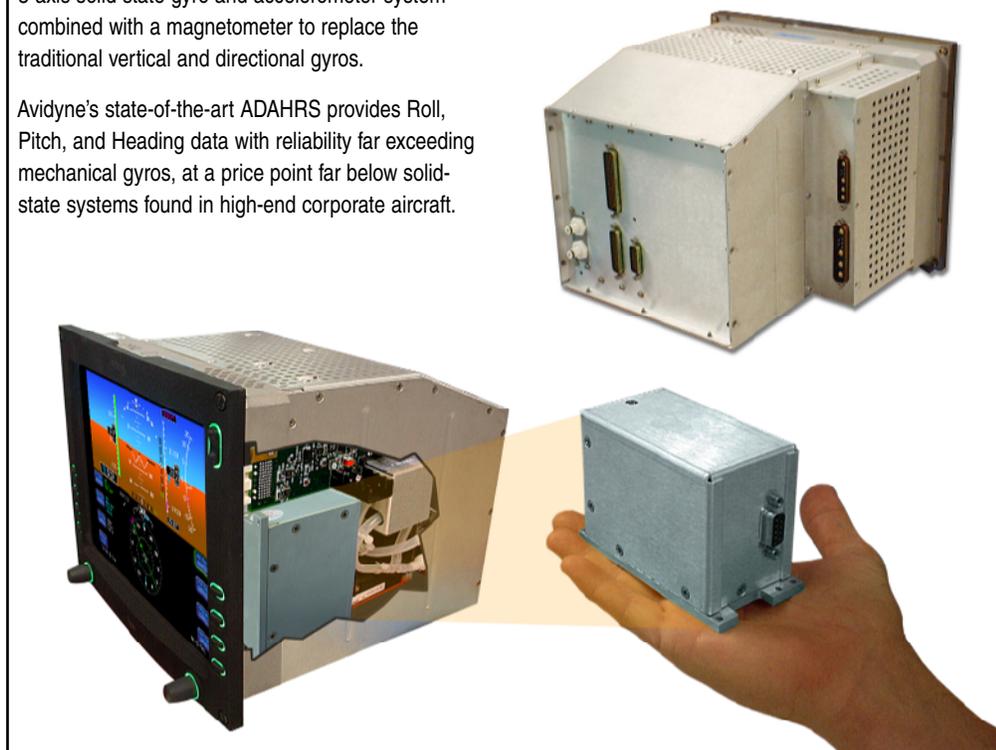
Solid-State ADAHRS - The Enabling Technology of FlightMax *Entegra*

At the heart of the FlightMax *Entegra* PFD is Avidyne's fully-integrated, solid-state Air Data/Attitude and Heading Reference System (ADAHRS).

The compact, lightweight, ADAHRS system uses a 3-axis solid state gyro and accelerometer system combined with a magnetometer to replace the traditional vertical and directional gyros.

Avidyne's state-of-the-art ADAHRS provides Roll, Pitch, and Heading data with reliability far exceeding mechanical gyros, at a price point far below solid-state systems found in high-end corporate aircraft.

Connected to the pitot-static system, *Entegra's* integrated air data computer provides airspeed, altitude, vertical speed, and outside air temperature (OAT), and continually updates the winds aloft and true airspeed (TAS) indications on the PFD.



FlightMax EX5000 Multi-Function Display with Integrated Datalink



Integrated Datalink Sets the Standard

The FlightMax EX5000 is a revolutionary advancement in multi-function displays. With its built-in datalink capability, smoothly-contoured NEXRAD weather, graphical METARs, and graphical AIRMET/SIGMET data are seamlessly integrated with lightning, traffic, obstacles, and terrain on your flight plan moving map.

Ultra-Bright, High-Resolution Display

The FlightMax EX5000 features the highest resolution and the brightest, most versatile big-screen moving map available in general aviation. It's incredibly wide viewing angle and brilliant color capability provide clear and concise navigation information over an exceptional color-contoured terrain and water base map.

The Best Map Available

All special-use and class airspaces are color-keyed for added clarity, and can be displayed at the same time as your NEXRAD weather data for a more complete picture. Having the complete picture on your map display gives you the ability to avoid weather and stay clear of restricted airspaces, providing an added measure of safety, and saving you time and fuel. Comprehensive Jeppesen NavData™ and an expansive obstacle database provide you with an unparalleled view of your flight environment.

Full overlay capability allows you to add or remove any available sensor data, with 180-degree forward view and 360-degree center view maps.

Curved Paths

The FlightMax EX5000's large display shows curved flight path segments such as DME arcs, holding patterns and procedure turns, overlaid with traffic, terrain, weather, airports and runway diagrams. The EX5000 takes the guess work out of shooting instrument approaches.

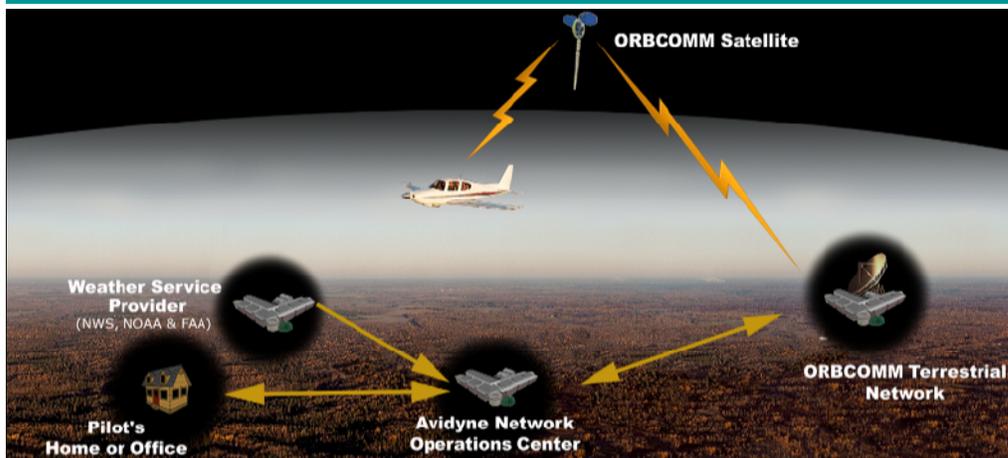
The Easiest To Use

The FlightMax EX5000's user interface dramatically improves your ability to access and display critical flight data. It's simple and consistent operation allows you to select and display what you need on a single easy-to-interpret integrated moving map.

With the FlightMax EX5000's "map-centric" operation, you can display your moving map with datalink weather. And special-use airspace. And traffic. And obstacles. And terrain. And lightning. Without ever leaving the map page.

FlightMax EX5000 is the only large-format display that provides the *complete* picture and it's the easiest to use.

Narrowcasting - Providing the weather you want, when you want it, where you want it.



With Avidyne's innovative "Narrowcast" datalink technology (Patent pending), once you set your preferences, the system does the rest.

Your GPS flightplan tells the datalink system where you are and where you are going, and Avidyne's FlightMax Datalink Weather Service automatically sends the NEXRAD and METAR data you need, based on your preferences, so you get the weather you want.

With the FlightMax EX5000's built-in datalink, you get valuable and timely weather information displayed on your moving map without the need to switch pages or to manually make requests and wait for data, so you get weather when you want it.

The ORBCOMM satellite network provides coverage across the entire continental United States with no gaps and at all altitudes, even when on the ground.

And unlike terrestrial-based broadcast systems, there's no need to wait until you're at cruising altitude to start receiving weather, so you get weather where you want it.

NEXRAD images and graphical METARs for the area along your route of flight are updated and displayed on your moving map without the need for continual pilot interaction.

Fully-translated plain-English METARs provide additional detail of weather at your destination and at reporting airports all along the way. Graphical depictions of AIRMETs and SIGMETs, as well as TFRs, are also displayed for the most complete picture available.

With the FlightMax EX5000 and FlightMax Datalink Weather Service, you get the weather you want, when you want it, and where you want it.



Trip Summary at a Glance

The Trip page provides complete information about your route of flight including a list of all remaining waypoints in the active flightplan, with distances and times for each leg. Graphical METARs are displayed for the reporting station nearest each waypoint in the flight plan. Graphical METAR flags are

color-coded for quick determination of the weather at each reporting point. Plus, FlightMax translates the METAR text to plain English for easy interpretation. With the optional EMax Engine Indication System, the trip page also shows fuel remaining at each waypoint.



EMax Engine Indication System

The EMax Engine Indication System option for the FlightMax EX5000 provides a handy graphical fuel totalizer, a lean assist mode, and a percent power display, which take the guess work out of fuel and power management. EMax monitors fuel flow and computes nautical miles per

gallon, fuel remaining, fuel to waypoint, and fuel to destination. Temperatures, pressures, RPM, fuel flow, OAT, and electrical bus voltages are also monitored and displayed. EMax provides the most intuitive engine performance monitoring and analysis capability available.



Advanced Terrain Mapping

The FlightMax EX5000 has a complete terrain and water base map, as well as a North American database containing towers and other obstacles greater than 200' AGL, providing unsurpassed depiction of terrain hazards. Color-contoured terrain is displayed on the base map and obstacles can be displayed with MSL

altitude labels. Avidyne's exclusive terrain scale shows the altitude of the highest terrain and obstacle in the displayed area. The "nearest obstacle" feature makes it easy to determine the height and proximity of nearby towers as you descend into any unfamiliar areas.



The Big Picture

The FlightMax EX5000's large-format high-resolution display allows you to easily view your flightplan, along with Avidyne's exclusive smooth-contour NEXRAD weather imagery. With 19 ranges to choose from, you can see well ahead of your current position, and you have the

ability to zoom in for airport runway detail at close ranges. Graphical METARs for all reporting airports are also available, which can help you in determining an alternate airport in the event of inclement weather or an emergency situation.

Specifications

TSO COMPLIANCE:

TSO-C2d	Airspeed Instruments
TSO-C3d	Turn & Slip Instruments
TSO-C4c	Bank & Pitch Instruments
TSO-C6d	Magnetic Direction Instruments
TSO-C8d	Vertical Velocity Instruments
TSO-C10b	Altimeter, Pressure Actuated
TSO-C37d	VHF Radio Communications Transmitting Equipment
TSO-C38d	VHF Radio Communications Receiving Equipment
TSO-C43c	Temperature Instruments
TSO-C44b	Fuel Flow Meters
TSO-C45a	Manifold Absolute Pressure Instruments
TSO-C47	Pressure Instruments - Fuel, Oil, Hydraulic
TSO-C49b	Electric Tachometer
TSO C106	Air Data Computer
TSO C110a	Airborne Passive Thunderstorm Detection
TSO C113	Airborne Multipurpose Electronic Display
TSO C147	Traffic Advisory System (TAS)

DISPLAY:

10.4" Diagonal, Color Active-Matrix LCD
Sunlight readable
800x600 pixels, 65,536 colors

SYSTEM POWER:

6.0 A @ 28VDC

OPERATING ALTITUDE:

Up to 25,000 ft. (cabin pressure)

OPERATING TEMPERATURE:

-20C to +55C
+70C Short term

DATALINK

FlightMax Datalink Weather Service
uses internal datalink transceiver

SIZE

	Height	Width	Depth (Behind Panel)	Weight
PFD (Horizontal)	8.5" 21.6cm	10.7" 27.2cm	9.4" 23.9cm	12.0 lbs. 5.45kgm
EX5000 MFD (Horizontal)	8.5" 21.6cm	10.7" 27.2cm	4.62" 11.7cm	6.75 lbs. 3.07kgm
PFD (Vertical)	11.0" 27.9cm	8.5" 21.6cm	9.6" 24.4cm	12.0 lbs. 5.45kgm
EX5000 MFD (Vertical)	11.0" 27.9cm	8.5" 21.6cm	4.62" 11.7cm	6.75 lbs. 3.07kgm

VECTOR-GRAPHIC MOVING MAP

Americas Jeppesen NavData
International Jeppesen NavData - Optional
(Portable Dataloader Optional)

TERRAIN

Color-Contoured Terrain Base Map - Built in
- Americas Terrain & US Obstacle Data
- International Terrain Data

AUTOPILOT INTERFACE

S-Tec 55X
Bendix/King KAP 140

GPS/FMS/VLOC INTERFACE

ARINC 429 GAMA Graphics

LIGHTNING INTERFACE

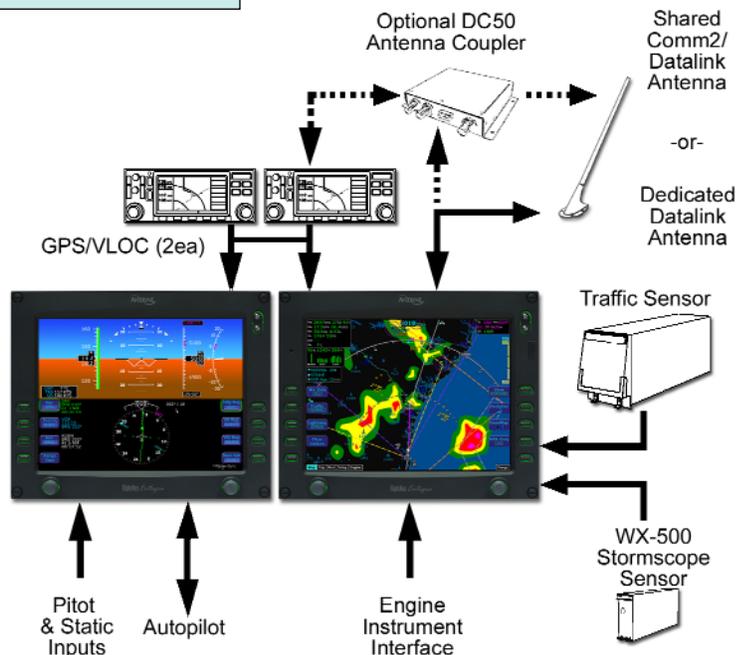
Goodrich WX 500 Stormscope

TRAFFIC INTERFACES

Goodrich Skywatch/Skywatch HP
Ryan TCAD 9900B/9900BX
Honeywell KTA870

WARRANTY:

-2 Years parts & labor included
-Extended warranty service available



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