

FlightMax EX500

Integrated-Datalink
Multi-Function Display



FlightMax EX500 WITH MULTILINK™

Avidyne's FlightMax EX500 brings affordable, integrated-datalink multifunction display capability to the flight deck of general aviation aircraft.

MultiLink Sets the New Standard

With its built-in two-way datalink and the ability to interface with the XM WX broadcast system, the FlightMax EX500 provides the complete weather picture along your route of flight. You can view NEXRAD and graphical METAR weather information seamlessly integrated with your flight plan moving map, lightning, traffic, and terrain display.

Ultra-Bright, High-Resolution Display

The FlightMax EX500 features our industry-leading, high-resolution, active-matrix liquid-crystal display (AMLCD), providing you with the brightest, most versatile big-screen moving map available. With nearly three times as many pixels as some competitor's displays, and an incredibly wide viewing angle, it provides 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 NEXRAD or weather radar data for a more complete picture. Comprehensive Jeppesen NavData™ and an expansive North American obstacle database provide an unparalleled view of your flight environment.

Full overlay capability allows you to add or remove traffic, Stormscope, and radar, with 180-degree forward view and 360-degree center view maps.

Curved Paths

The FlightMax EX500's large display shows easy-to-see curved flight path segments such as DME arcs, holding patterns and procedure turns, overlaid with traffic, terrain, weather, airports and runway diagrams. Adding Avidyne's CMax™ Approach Charts, the EX500 really takes the guess work out of shooting instrument approaches.

The Easiest To Use

The FlightMax EX500's user interface dramatically improves your ability to access and display critical flight data. This design philosophy keeps operation simple and consistent by allowing you to select and display what you need on a single easy-to-interpret integrated moving map. The FlightMax EX500 also provides easy access to radar modes, tilt control, and bearing adjust.

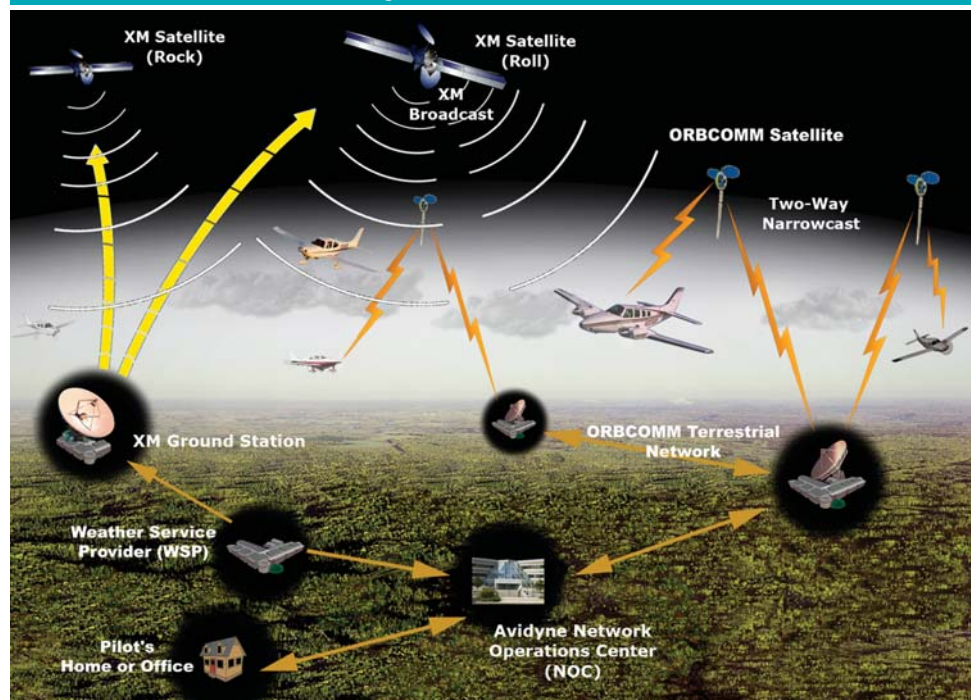
With the FlightMax EX500's "map-centric" operation, you can display a moving map of your flightplan along with radar and datalink weather. And special-use airspace. And traffic. And terrain. And lightning. Without ever leaving the map page. It's the only display that provides the complete picture and it's the easiest to use.

Best Value

Integrating the datalink hardware and software right into the FlightMax EX500 takes out the cost of building and certifying a separate transceiver. This helps make the FlightMax EX500 the most cost-effective datalink solution available.



MultiLink™ - Combining the Benefits of Broadcast and Narrowcast



Avidyne's exclusive MultiLink™ technology seamlessly integrates broadcast and two-way datalink capability for the most advanced and easiest-to-use datalink system you can get.

MultiLink allows the operation of Avidyne's Narrowcast and XM's Broadcast weather individually or together as complementary systems, providing you with the the best of both services. With MultiLink, your FlightMax EX500 displays aviation weather at the high-speed update rates of the XM broadcast system, with the added benefit of the lower-cost, two-way Narrowcast datalink capability.

The XM WX Satellite Weather service gives pilots comprehensive, graphical information about weather conditions all across the United States. The service delivers critical, real-time information for pilots including NEXRAD Radar in high resolution, full-color graphical format, overlaid on the EX500's industry-leading moving map.

XM also provides graphical and plain-English textual METARs, AIRMETs, SIGMETs, TFRs, and lightning strikes from the National Lightning Detection Network®.

Avidyne's integrated Narrowcast datalink system provides the best cost/performance value in a datalink solution for general aviation. Using the ORBCOMM satellite network, the EX500 provides route-specific weather with pay-as-you-go service plans that make it the most affordable datalink solution available. Narrowcast has the added advantage of Canadian and Caribbean (Non-CONUS) coverage, and its two-way datalink communications allows for such future capabilities as position reporting and air-to-ground messaging.

Whether you choose the low-cost Narrowcast system, the high-speed XM solution, or the advanced technology of MultiLink, the EX500 delivers datalink benefits you simply can not get with any other system.

VERSATILE MULTIFUNCTION DISPLAY CAPABILITY



CMax™ - Maximizing your Approach



Avidyne's CMax™ Electronic Charts option offers a world-wide library of geo-referenced approach charts and airport diagrams, helping you manage and access critical flight information and reducing the amount of paper required on board your aircraft.

Utilizing Jeppesen's trusted JeppView™ Electronic Airway Manual, CMax makes accessing an approach or viewing an airport diagram a breeze. At startup, your departure airport chart is automatically loaded for ease of orientation, especially at unfamiliar fields.

Your destination airport diagram and the list of available approaches are automatically loaded at the time your flight plan is entered, and can be viewed easily using the Auto-fill capability, or you can easily select and view any approach at any airport in the database.



Trip Page

The Trip page provides 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 for all reporting airports are also listed, which can help you in determining an alternate airport in the event of inclement weather or an emergency situation. Textual METARs are also available for each reporting airport. FlightMax translates the METAR abbreviations into plain English for easy interpretation.

Terrain & Obstacles

With its complete terrain and water base map, and a North American database containing towers and other obstacles greater than 200' AGL, the FlightMax EX500 provides a clear presentation of terrain hazards. Obstacles can be displayed with MSL altitude labels, and Avidyne's exclusive terrain scale shows the altitude of the highest terrain and obstacle height 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 FlightMax EX500 also interfaces with the popular EGPWS/ TAWS sensors for added safety, making it the most versatile multi-function display available.



TFRs

Temporary Flight Restriction (TFR) areas are updated via datalink to provide the most up-to-date information about your flight environment. Having the complete picture gives you the ability to avoid hazardous weather conditions and stay clear of restricted airspaces, saving you time and fuel.

FUNCTIONALITY

DATALINK

Heads Up Technologies XMD-076
using XM WX Satellite Weather Service

Internal datalink transceiver using
FlightMax Datalink Weather Service
& ORBCOMM satellite network.

VECTOR-GRAPHIC MOVING MAP

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

APPROACH CHARTS

CMax™ - Jeppesen Electronic
Airway Manual Charts - Optional

GPS/FMS INTERFACE

RS-232
ARINC 429 GAMA Graphics

LIGHTNING SENSOR INTERFACE

L3 WX 500 Stormscope

TRAFFIC INTERFACES

Honeywell CAS 66A TCAS I - Optional
Honeywell KTA870/KMH880 TAS/IHAS
L3 791 TCAS I
L3 Skywatch/Skywatch HP
Ryan TCAD 9900B/9900BX
Garmin GTX 330 TIS Transponder

HEADING INTERFACE

ARINC 407 - Synchro XYZ
ARINC 429

TERRAIN AWARENESS

Color-Contoured Terrain Base Map Built in
- Americas Terrain & US Obstacle Data
- International Terrain Data - Optional
EGPWS/TAWS Interface - Optional
- Honeywell MK V, VI, VII, VIII, XXI,XXII
- Honeywell KMH880 IHAS
- Honeywell KGP 560 G.A.

RADAR INTERFACES

Collins WXR 300
Collins WXR 270
Collins WXR 250
Bendix RDR 2100
Bendix/King RDS 86VP
Bendix/King RDS 86
Bendix/King RDS 84VP
Bendix/King RDS 84
Bendix RDR 1300
Bendix RDR 1200
Bendix RDR 1100
Bendix/King RDR 2000
Bendix/King RDS 82VP
Bendix/King RDS 82
Bendix/King RDS 81
Bendix RDR 160
Bendix RDR 150
Bendix RDR 130

FLIGHTMAX EX500 SPECIFICATIONS

APPLICABLE TSOs:

TSO C63c Airborne Weather Radar
TSO C110a Airborne Passive Thunderstorm Detection
TSO C113 Airborne Multipurpose Electronic Display
TSO C118 Traffic Alert & Collision Avoidance (TCAS)
TSO C147 Traffic Advisory System (TAS)

DISPLAY:

5.5" Diagonal
616 x 350 pixels
65,535 colors
Ultrabright sunlight readable
Extra-wide viewing angle

PHYSICAL DIMENSIONS:

4.35H x 6.25W x 10.75D

WEIGHT:

7.2 lbs (3.24 kg)

POWER REQUIREMENTS:

Max 5.0A @ 28VDC

ENVIRONMENTAL:

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

COOLING:

Internal Forced Air Cooling Provided

WARRANTY:

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

FlightMax EX500 Benefits

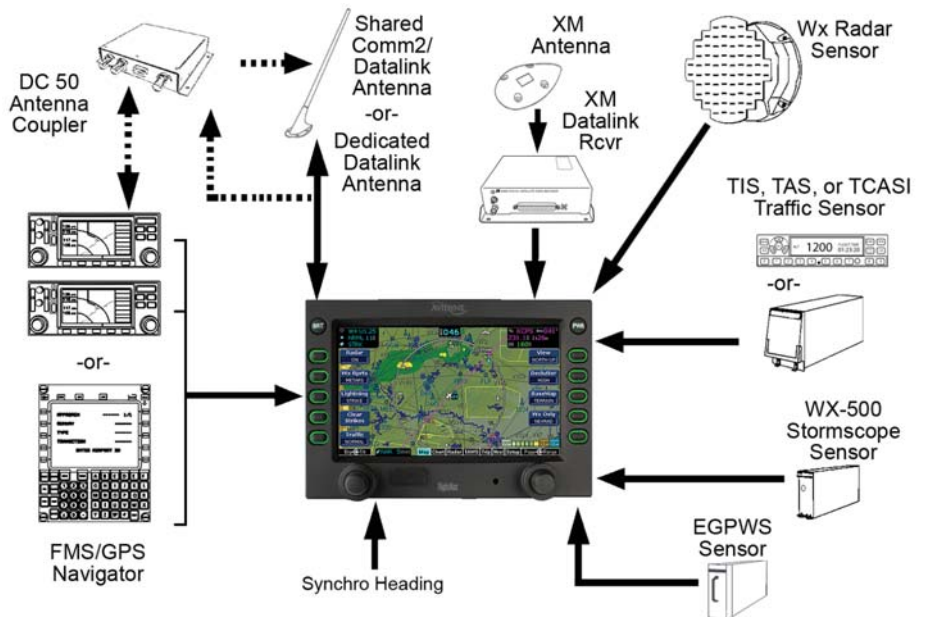
- ✓ Integrated Datalink
- ✓ High Resolution Display
- ✓ Easiest to Use
- ✓ Best Value Datalink Solution



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The FlightMax EX500 presents navigation, radar, datalink weather, lightning, traffic, and terrain data in an easy-to-interpret format, dramatically improving situational awareness and enhancing safety through all phases of flight.

Avionics installations require special skills and test equipment. Avidyne's limited warranty is valid only for equipment installed by an authorized Avidyne Service Center. Avidyne reserves the right to make changes to product specifications and design features without notice.

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