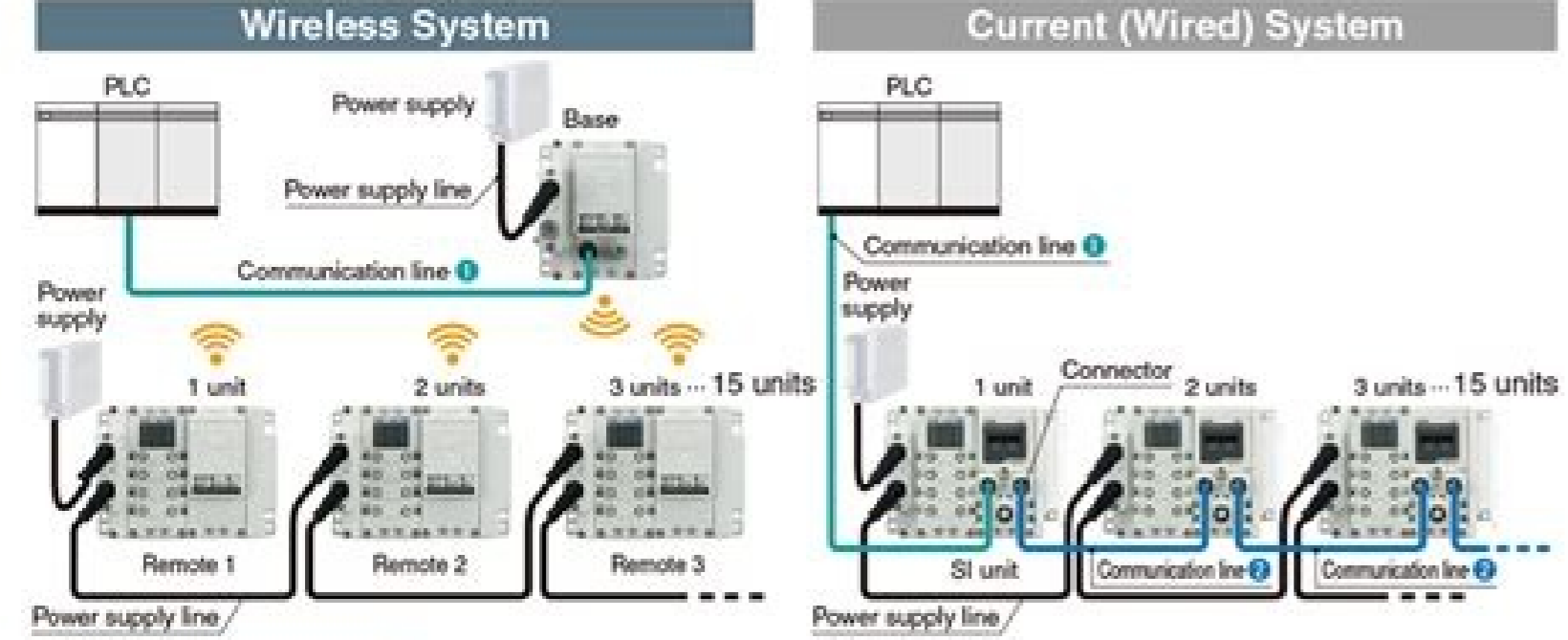
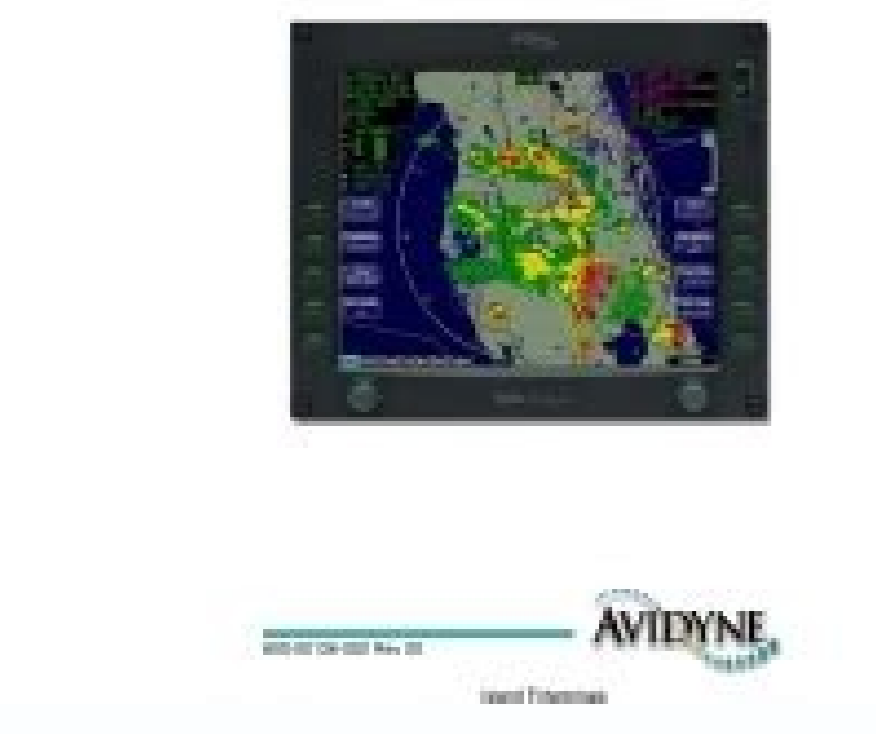


I'm not robot!



SI unit: Comparison when 15 units are connected		Communication line	
Wireless system	Wireless master: 1 unit Wireless slave: 15 units	1 line (Connector at one end)	1 place
Current (Wired)	SI unit: 15 units	1 line (Connector at one end)	14 lines (Connector at both ends) 29 places

Entegra EX5000
Symphony SA 160A
Multi-Function Display
Pilot's Guide



Avdyne ex500 installation manual pdf. Avdyne ex500 installation manual. Avdyne flightmax ex500 manual.

Page 1 Multi-Function Display Pilot's Guide Software Release 4 or Later 600-00078-001 Rev 05... Corporation is prohibited. For further information contact Avdyne Corporation, 55 Old Bedford Road, Lincoln, MA 01773, 781-402-7400. Information in this document is subject to change without notice. Avdyne reserves the right to change or improve their products and to make changes in the content of this material without obligation to notify any person or organization of such changes or improvements. Page 4 The standard EX500/EX600 version and the radar-capable EX500/EX600 differ in the number of function knobs. The standard EX500 has two knobs: a Page knob and a Range knob. The radar-capable EX500 and the EX600 have four knobs, two on the left of the display and two on the right. Page 5 This manual assumes that the reader is an appropriately licensed pilot. Avdyne strongly recommends that you use the only under VFR conditions until you are very EX500/EX600. Page 6 WX-BRIEF (992-7433) for the latest information. Outside the United States, call your local Flight Service Station or other official flight advisory service. The NOTAM information provided by the EX500/EX600 is for planning purposes only. Always consult official NOTAMS for the latest restrictions. Contents 1 Introduction 1 Starting the EX500/EX600 2 2-Knob and 4-Knob Functionality 5 2 Map Page 7 Map Page Controls 7 Panning (EX600 Only) 17 Map Page Symbols - Terrain and Position 19 Map Page Symbols - Runways and Flight Plan 23 Errors Displayed on the Map Page Page 8 Optimizing MultiLink for ORBCOMM (Release 4.0 and earlier) - OrbcComm Text Messaging (Release 4.0 and earlier) 118 Composing and Sending a Message 121 Receiving a Message 122 11 Reference 123 Activating Broadcast Datalink Accounts 124 Avdyne EX500/EX600 MFD -v- 600-00078-001 Rev 05... Page 9 TAWS Messages 159 Radar Messages 161 Abbreviations and Definitions 163 12 Using EX500/EX600 Outside the US 165 Features Available in the US Only 165 Features Available in North America 165 Features Available in Other Parts of the World 166 Features Specific to International Flight Page 10 Figure 4.5 Vertical Profile view (Bendix/King RDS 84VP/86VP and RDR 2000/2100) 42 Figure 4.6 Maximum Permissible Exposure Level 43 Figure 5.1 TAWS Display as shown on 4-Knob EX500 45 Figure 5.2 Terrain Caution Condition 49 Figure 5.3 CMax Procedure Chart (2-Knob) 55... Page 11 Figure 10.13 Datalink Configuration Page 113 Figure 10.14 Coverage area for Broadcast weather 116 Figure 10.15 Datalink Messaging Page 119 Figure 10.16 Incoming Message Alert 122 Figure 11.1 MyAvdyne Page 131 600-00078-001 Rev 05 -v- Avdyne EX500/EX600 MFD... Page 12 Table 11.13 Traffic Messages 150 Table 11.14 Lighting Messages 151 Table 11.15 Two-Way Datalink Messages 154 Table 11.16 Broadcast Datalink Messages 156 Table 11.17 TAWS Messages 159 Table 11.18 Radar Messages 161 Table 11.19 Avionics Abbreviations and Definitions 163 Avdyne EX500/EX600 MFD 600-00078-001 Rev 05... Introduction The Avdyne EX500/EX600 Multi-Function Display (MFD) is the most advanced situational awareness system in general aviation. Its display consolidates information from a variety of optional sensors in your aircraft (see Figure 1.1). TWX670/WX-500 Lightning Sensor Figure 1.1 Avdyne EX500/EX600 MFD System... Datalink network... See Chapter 9 "Aux Page for more information. To turn on your EX500/EX600 display, do the following: 1) Press the PWR button. After a brief initialization period, the system will display version and database expiration information and the message, Press Any Bezel Key. 5) Message Bar - The message bar keeps you informed about critical as well as routine information from the EX500/EX600. When information needs to be conveyed, the message bar appears next to the bottom right key. Page 16 10) Page Control knob - Provides access to the EX500/EX600's Map, Radar, TAWS, Chart, Trip, Nearest, Datalink, and Aux pages. The active page is highlighted in the lower edge of screen. Left inner 4-Knob The knob controls are: 1) Page Control knob - Provides access to the EX500/EX600 Map, Radar, TAWS, Chart, Trip, Nearest, Datalink, and Aux pages. The active page is highlighted in the lower edge of screen. 2) Range & Cursor Control knob - Allows you to set the Map range. Page 18 Introduction THIS PAGE INTENTIONALLY LEFT BLANK. Avdyne EX500/EX600 MFD 600-00078-001 Rev 05... Map Page The Map page displays your flight plan and position as an overlay of a map of the current flight area (see Figure 2.1). The EX500/EX600 allows you to select the data you want to display on the Map page. These keys are On/Off switches of the respective features. Figure 2.2 METAR and AIRSIG Keys For 2-way Datalink, the EX500/EX600 does not display Note: graphical METARs for AWOS reporting stations that are more than 300nm from the current position or for ASOS reporting stations that are more than 450nm from the current position. Page 21 For TWX670 cell information, see the WXOnly key - TWXCELL selection. Only one mode can be displayed on the EX500/EX600 MFD at any time. The EX500/EX600 provides scalable support for a number of different weather sensors so you can use the MFD to get the best view of hazardous weather and options to avoid it. Page 22 Terrain - Terrain data background with water and geo-political boundaries. Base - Black background with water and geo-political boundaries. None - Black background. Terrain scale is removed. Avdyne EX500/EX600 MFD -10- 600-00078-001 Rev 05... Page 23 Datalink RADAR for CONUS, including storm cells. For many operations, the EX500 displays weather data in the same way, regardless of which Datalink system is in use. Both systems provide datalink radar data—a composite image depicting precipitation as seen by multiple ground-based weather radar sites. Page 24 (such as storm cell movement and Datalink lightning). For Datalink RADAR, small areas of high-intensity datalink radar data might not be displayed on the EX500/EX600 at high range settings. Instead, larger areas of surrounding lower-intensity returns might obstruct indications of severe precipitation at Map ranges higher than 250 nm. (EX600 Only) When panning with TWXCELL mode Note: displayed, cells further than the current range setting, centered on the the aircraft present position, will not be displayed. To see all cells when panning, select 200 nm range or greater. 600-00078-001 Rev 05 -13- Avdyne EX500/EX600 MFD... RADAR - Displays on-board weather radar returns on the map. This choice does not appear if the EX500/EX600 is not configured with an aircraft heading sensor, or if aircraft heading is currently unavailable. The Sat IR images are delivered with variable resolution of between approximately 10 km near the ownship to 30 km 100+ nm along the flight path. The EX500/EX600 smooths the edges of the SatIR images so that the images are not distracting at smaller zoom ranges. Like... Page 28 Note: radar or SatIR data. If datalink radar or SatIR is unavailable in a particular area, hatched lines appear in that area. 3) The ACK is used to display and acknowledge system messages. Avdyne EX500/EX600 MFD -16- 600-00078-001 Rev 05... If in panning mode, press to center the map on the own-ship symbol and exit panning mode. If in not in panning mode, press to enter panning mode and center the map on the last panned location. 600-00078-001 Rev 05 -17- Avdyne EX500/EX600 MFD... Page 30 When panning with TWXCELL mode displayed, cells further Note: than the current range setting, centered on the the aircraft present position, will not be displayed. To see all cells when panning, select 200 nm range or greater. Avdyne EX500/EX600 MFD -18- 600-00078-001 Rev 05... Map Page Symbols—Terrain and Position 2.3 Map Page Symbols—Terrain and Position The EX500/EX600 Map page uses included and optional sensors to depict the position of your aircraft in relation to the following: your flight plan, nearby airports, terrain, traffic, lightning, special use airspace and other nav aids (see Figure 2.3). In the example, the bottom storm cell, which includes the probability of hail, is moving NNE at 33 knots. The cell top is 35,000 feet high. Avdyne EX500/EX600 MFD -20- 600-00078-001 Rev 05... Page 33 Before conducting a flight, always confirm the state of SUA's with FAA Flight Service. 8) Datalink Radar Status Box (EX500 only) - If more than three sensors are installed on the EX500, data for the datalink radar status is displayed at the bottom of the page instead of in the Sensor Status Box. Page 34 Terrain legend colors are shown in Terrain Display Color Coding on page 141. The displayed terrain and obstacle indicators are only advisory. It is dangerous to rely on the EX500/EX600 as the sole source of obstacle and terrain avoidance information. Always refer to current aeronautical charts for appropriate terrain and obstacle information. Figure 2.7 Map Page—Runways and Flight Plan Symbolology 1) Airport Runway Diagrams - When the Map page is set to under 20NM, the EX500/EX600 displays runway layouts of the destination airport and nearby airports. 2) Flight Plan - Displays the active flight plan from the selected GPS on the map. Page 36 Terrain Awareness system. The displayed terrain and obstacle indicators are only advisory. Do not rely on the EX500/EX600 as the sole source of obstacle and terrain avoidance information. Always refer to current aeronautical charts for appropriate terrain and obstacle information. 2.5 Errors Displayed on the Map Page 2.5.1 Loss of GPS Input The loss of primary GPS on the EX500/EX600 is shown as follows: 1) The aircraft symbol is removed. 2) There is no heading information displayed (if GPS has been selected as your heading source/track). Page 38 Map Page THIS PAGE INTENTIONALLY LEFT BLANK. Avdyne EX500/EX600 MFD -26- 600-00078-001 Rev 05... This displays the dedicated traffic page to provide you with maximum traffic situational awareness. It is dangerous to rely on the EX500/EX600 as your sole source of data for collision avoidance. Traffic information is provided as an aid to your visual determination of traffic. Traffic key on the Map page. Target aircraft are displayed in standard format relative to current aircraft position. The available Traffic key modes are: Avdyne TAS600 series (including 9900EN), Skywatch, and Bendix/King, TCAS - ABOVE, NORMAL, UNLIMITED, BELOW, and DISPLY OFF. 3) Traffic Advisory - When a Traffic Advisory (TA) is reported from the traffic sensor, the traffic symbol of the threat aircraft turns yellow, and the EX500/EX600 displays a traffic alert message in the message bar (see Figure 3.1) to help focus your attention where it is needed. Pilot Guide. For TIS sensors, see the Aeronautical Information Manual. 2) Range Control - Turn the Range knob to select from the available ranges. For Traffic messages, see Traffic Messages on page 150. Note: Avdyne EX500/EX600 MFD -30- 600-00078-001 Rev 05... Traffic sensors do not provide any traffic awareness data for aircraft without operating transponders. Therefore, these aircraft will not be displayed on the EX500/EX600. It is your responsibility to see and avoid all other traffic and to maintain appropriate separation. This data is not available at the current aircraft location. SBY - The TIS sensor is in standby mode. DATA FAIL - The TIS sensor has reported an internal fault. Traffic information is removed from display. Avdyne EX500/EX600 MFD -32- 600-00078-001 Rev 05... Radar Page (Optional) The radar-capable EX500/EX600 is designed to replace an existing radar indicator. Its user interface is more intuitive, and it is integrated with other sensors such as lightning and lightning (if installed). For convenience, the radar control functions used most frequently are on the left side of the Map page. OFF or in standby and your groundspeed (as received from the GPS system) falls below 20 Kts. If Auto Standby is enabled, the EX500/EX600 switches the radar to Standby automatically when ground speed falls below 20 Kts. Note: page 161. Dedicated Radar Page If your EX500/EX600 is radar-equipped, select Radar from the Page Bar to display the Radar page. Figure 4.2 Dedicated Radar Page 1) Tilt Indicator - Indicates the tilt angle and direction of the radar antenna: U for up, D for down with the amount of antenna tilt in quarter degrees using decimal notation. Page 48 Tilt values are in degrees and range from D 15.00" (DOWN) to U 15.00" (UP). Range - The right inner knob controls the range scale. Turn the knob clockwise to increase the range scale and counter-clockwise to decrease the scale. Avdyne EX500/EX600 MFD -36- 600-00078-001 Rev 05... Page 49 Bendix/King - 5" 10, 20, 40, 80, 160, 240, and 320nm, depending on radar type. Based on recommendations made by the FAA and the radar manufacturer, Avdyne recommends the following safety procedures: • At startup, if the radar is not being used in flight, ensure that it is turned off. 3) Radar Standby - Places the radar circuitry in an energized but inactive state. Select Standby as soon as it is practical to do so after starting the EX500/EX600. When the radar is in standby, the mode annunciator is set to STBY, and the moving scan indicator and radar echo returns are not present. Page 51 9) Control - Switches the bottom left key and top right three key functions to control the Settings as described in Typical Radar on page 40. Push Control again to bring the top right three key functions back to "Mode" as described above. 600-00078-001 Rev 05 -39- Avdyne EX500/EX600 MFD... (Map, for example). The Message text is, "Heavy Radar Echoes Beyond 60nm". The Message warning is cancelled when you acknowledge it (by pressing the ACK key), or when the alert is eliminated by the radar sensor. Avdyne EX500/EX600 MFD -40- 600-00078-001 Rev 05... Page 53 4) Stab (Stabilization) - Turns the radar sensor gyro stabilization ON or OFF. An on-screen annunciation (STAB OFF) is displayed in the upper right hand corner when stabilization is turned OFF. 600-00078-001 Rev 05 -41- Avdyne EX500/EX600 MFD... A vertical profile annunciation (PROFILE) provides the current azimuth displayed on the screen, in degrees left (L), right (R) or centered. Figure 4.5 Vertical Profile view (Bendix/King RDS 84VP/86VP and RDR 2000/2100) Avdyne EX500/EX600 MFD -42- 600-00078-001 Rev 05... The MPEL boundary shown below applies only to units specifically approved for use with the EX500. The MPEL boundary shown below does not guarantee protection against ignition of flammable materials or damage to sensitive electronic equipment exposed to microwave energy from your radar. Page 56 Radar Page (Optional) THIS PAGE INTENTIONALLY LEFT BLANK. Avdyne EX500/EX600 MFD -44- 600-00078-001 Rev 05... Any display of yellow or red on the TAWS page indicates an imminent terrain hazard. The displayed terrain and obstacle indicators are only advisory. Do not rely on the EX500/EX600 as the sole source of obstacle and terrain avoidance information. Always refer to current aeronautical charts for appropriate terrain and... Page 58 It indicates the current position of the scan. 4) Peaks Mode Elevations - Appears only when your EX500/EX600 has been installed with the "Peaks Mode" option. The two numerical values correspond to the highest terrain/obstacle elevation displayed and the bottom elevation of the lowest color band displayed. Page 59 Range Annunciation that contains the new requested range. 9) Azimuth Lines (not shown) - On a 2-knob EX500, there is no Brg knob, so the bearing line feature is not available. Instead, there is an Azimuth Lines key. When pressed, labeled azimuth lines appear every 20 degrees. Page 60 100 feet or more, is not to be used for navigation. It is presented to provide the crew with additional situational awareness of true height above sea level upon the flight plan leg at current ground speed. ETA - Estimated time of arrival to waypoint in HH:MM formatted for local time. METAR - Graphical METAR and reporting point identifier. Avdyne EX500/EX600 MFD -70- 600-00078-001 Rev 05... 83 JeppView subscription coverage. For more information, see Chapter 6 "CMax Chart Pages (Optional). When the EX500/EX600 Datalink is enabled, any leg on your flight plan that is longer than 100NM generates "intermediate waypoints" to display on route weather. These points are identified with a Wx: prefix, rather than To: in the flight plan display. - If 2-Way Datalink is installed and available, the double-headed arrow signal information for the 2-Way Datalink system. It also displays the elapsed time since the last reception of the various types of weather data. Avdyne EX500/EX600 MFD -72- 600-00078-001 Rev 05... Page 85 Aux page. When these messages are displayed, all data for that product is removed from the MFD. The Trip page will indicate that new data for that product has 600-00078-001 Rev 05 -73- Avdyne EX500/EX600 MFD... Page 86 0 indicates no errors. Signal Lock (WSI Receiver only) - Displays whether the receiver was able to obtain lock on the satellites in view. It will display either "locked" or "not locked". Avdyne EX500/EX600 MFD -74- 600-00078-001 Rev 05... Page 87 If wind data for a particular flight level has not been received, Note: the message, Not Available, is displayed. If the EX500/EX600 has received wind data, but the value is undefined for a particular level, the wind value is displayed as dashes. This can happen for a number of reasons... Page 88 Unit selections apply to decoded METAR text on both the Note: Trip page and Nearest page. The Units key is only displayed when the legend is selected Note: as the Trip page display. Avdyne EX500/EX600 MFD -76- 600-00078-001 Rev 05... Trip page. Use the GPS as the primary source of navigation information for approach procedures. Consult your avionics installation page to determine if your EX500/EX600 is interfaced to the Garmin GNS-430 via ARINC 429 or RS-232. Airport Information Page Figure 7.3 Trip Page Information Page... Page 90 Trip Page THIS PAGE INTENTIONALLY LEFT BLANK. Avdyne EX500/EX600 MFD -78- 600-00078-001 Rev 05... METAR reporting station for which an Instrument Procedure chart is available. An "I" on the icon indicates that at least one ILS approach chart is available. See Chart, below, for more information. 600-00078-001 Rev 05 -79- Avdyne EX500/EX600 MFD... Page 92 VORs - Identifier, bearing, distance, frequency and name. NDBs - Identifier, bearing, distance, frequency and name. Intersections - Identifier, bearing, distance, frequency and name. Obstacles - MSL (and AGL) height, bearing and distance. Avdyne EX500/EX600 MFD -80- 600-00078-001 Rev 05... 6) Select knob - Moves the cursor to a specific airport or other data. Airport Information Page Figure 8.2 NRST Airport Information Page 1) Back to Nearest - Returns to the currently selected NRST page. 600-00078-001 Rev 05 -81- Avdyne EX500/EX600 MFD... Page 94 Step and Jump labels appear. Step - Scrolls the page one page (or to the end of the list). Avdyne EX500/EX600 MFD -82- 600-00078-001 Rev 05... Aux Page This chapter describes the options on the EX500/EX600 Aux page and how to configure them (see Figure 9.1). You also use the main Aux page to view informational messages (see call-out 6 in Figure 9.1). Aux Main Page The options and features on the EX500/EX600 Aux page are identified by call out in Figure 9.1, and the list below the Figure... Page 96 6) Message List (including sensor status) - This display area is for system informational messages on the EX500/EX600. This list is not chronological—each type of sensor is assigned to a position in the list for its related messages. The Airport Filter page allows you to set the criteria for limiting the airports that are displayed on the Map page and Nearest page. Figure 9.2 EX500 Airport Filter Setup 1) Airport Type - Selects the display of Towered, Non-Towered, or both. Off - The symbol is never displayed. The EX500/EX600 may limit the number of symbols Note: displayed based on the total symbol density. 3) Label - Checking the label box displays the navaid label along with the symbol. Page 99 Note: 4) Range Dots - The dots represent the available map scales. A blue dot indicates that the object is displayed at that range. The vertical dash line indicates the map current scale. 600-00078-001 Rev 05... Data Block - Allows up to 3 lines of data for display. The data block resizes automatically based on the number of lines selected. The data block is not displayed if all the lines are set to "Blank." Avdyne EX500/EX600 MFD -88- 600-00078-001 Rev 05... Most RS232 GPS interfaces do not provide time data. Note: Auto - The system tries to set the time automatically by obtaining data first from the GPS and then from the 2-Way Datalink system, if installed. 600-00078-001 Rev 05 -89- Avdyne EX500/EX600 MFD... Page 102 4) Current Time and Date settings - Displays the time/date values currently being reported by the GPS and Datalink as well as the Local and UTC values that are currently set in the EX500/EX600. You cannot change Local time directly - you must first set the Note: GMT time correctly and then choose the correct Time Zone. EX500/EX600 Map and Trip pages. Avdyne offers the following Datalink services for the EX500/EX600: Broadcast Datalink Two-Way Datalink Multilink For most operations, the EX500/EX600 weather data display is the same regardless of which Datalink system is in use. 600-00078-001 Rev 05 -91- Avdyne EX500/EX600 MFD... Datalink (Optional) 10.1 Broadcast Datalink The EX500/EX600 supports an optional Broadcast Datalink receiver, either: An MLB700 that supports WSI/Sirius An XM receiver that supports XM WX_XMD076 for XM Broadcast Reception EX500 MFD_MLB700 for Sirius Broadcast Reception Figure 10.1 Broadcast Receiver Options... Page 105 In the mountains and off the coast, hatched lines may represent no coverage below 10,000 feet. If there are radar returns in that region above FL100, the returns will be displayed as "islands of precipitation" surrounded by the hatched lines. 600-00078-001 Rev 05 -93- Avdyne EX500/EX600 MFD... OrbcComm Satellite North American Access Figure

10.2 Two-Way Datalink The 2-Way Datalink sends you flight plan to the Avidyne Network Operations Center (NOC) when you flight. Two-Way Datalink can provide the lowest-cost datalink by charging only for the data used. Note: view of the sky and, generally, will not adversely affect the remaining navigation, map, radar, etc. functions of your EX500/EX600. If installation problems and/or satellite network problems do occur, you will be able to determine this by observing: ● Page 109 All signal strength indicators are dashed (" - - "). There is no action that you can take to re-acquire a satellite signal in the event of satellite and/or network problems. The EX500/EX600 will continue to try to acquire satellites as long as Datalink is enabled. All weather data (Datalink Radar, Text and Graphical METARs, AIRMETS, SIGMETs and TFRs) are depicted as usual whether received from Broadcast or from 2-Way Datalink. No specific action is required to choose between Datalink systems for this data. Avidyne EX500/EX600 MFD -98- 600-00078-001 Rev 05... Page 111 In the MFD status message: Note: Narrowcast refers to the use of 2-way datalink to send weather data from the Avidyne NOC based on position and flight plan data. Broadcast refers to the external Sirius or XM satellite weather receiver. Datalink refers to the 2-Way Datalink system. Datalink (Optional) 10.4 Overview of Datalink Weather For most operations, the EX500/EX600 displays weather the same way regardless of which Datalink system is used. Two-Way Datalink and Broadcast systems can provide the following: ● Datalink Radar - A composite image depicting precipitation as seen by multiple ground-based weather radar sites. Map page, Trip page, and on both types of Nearest Airport pages. They allow a "big-picture" view of general weather conditions in an area. The presence of a graphical METAR does not necessarily mean that the corresponding Text METAR is viewable. 600-00078-001 Rev 05 -101- Avidyne EX500/EX600 MFD... Page 114 Map page for which the FAA has issued some type of flight restriction. Contact a local Flight Service Station (FSS) for information. The EX500/EX600 does not display any details of the flight restriction. Do not rely on the... Figure 10.7 Datalink Setup Page Use the Select key (2-knob EX500) or Select knob (4-knob EX500/ EX600) to move from field to field and rotate the Change knob to select choices for an option. Press Save to save changes. Page 116 Coverage Radius to either side of the flight plan route. The boundary of the datalink radar coverage area is shown by an outline with diagonal stripes. Avidyne EX500/EX600 MFD -104- 600-00078-001 Rev 05... Page 117 To enable a weather type, check the checkbox for that weather. The following weather data subscriptions can be enabled or disabled: ● Text METARs - Text METARs ● METAR Symbols - Graphical METAR flag symbols 600-00078-001 Rev 05 -105- Avidyne EX500/EX600 MFD... Page 118 Do not rely on the as your sole source for EX500/EX600 TFRs. The status of TFRs may change or may be unavailable. Before conducting a flight, always confirm the state of TFRs with FAA Flight Service. Avidyne EX500/EX600 MFD -106- 600-00078-001 Rev 05... You can address messages to either a phone number that supports text messaging or to an e-mail address. Avidyne strongly recommends using e-mail addresses since Note: text messages over Iridium are much more reliable when sent to e-mail addresses as opposed to phone numbers. ● Save Contact - Saves the address in the header in the Contacts list. Goes to the Contacts page and allows you to enter the contact information (name, e-mail address, or phone number). Avidyne EX500/EX600 MFD -108- 600-00078-001 Rev 05... A solid green arrow indicates a from Flight Center message received from your Flight Center via MyAvidyne.com Message received A solid blue arrow indicates a message from Avidyne NOC received from the Avidyne Network Operations Center (NOC) 600-00078-001 Rev 05 -109- Avidyne EX500/EX600 MFD... Compose - Goes to the Compose page with the contact's address inserted in the To: field, and the message body ready to enter a message. ● Edit - Opens a selected contact so that you can make changes to the contact information. Avidyne EX500/EX600 MFD -110- 600-00078-001 Rev 05... ● Next DL Page - Opens the Setup page. ● Send - Sends the message. ● Change Field - Moves the cursor back and forth between the To: field and the Message: field. 600-00078-001 Rev 05 -111- Avidyne EX500/EX600 MFD... Page 124 Select Character - Turn the inner Select knob to select letters from an alphanumeric set (A-Z, punctuation, 0-9, and space). ● Position Cursor - Turn the outer ring of the Pos knob to move the cursor position within the Compose text box. Avidyne EX500/EX600 MFD -112- 600-00078-001 Rev 05... 1) Datalink Defaults - Press Datalink Defaults to reset the Datalink Setup options to the following default values: ■ Coverage area—Flight Plan ■ Coverage Area—200 NM ■ NEXRAD Resolution—Medium ■ Request Interval—Normal Mode ■ METARS and AIRMETS/SIGMETs —ON 600-00078-001 Rev 05 -113- Avidyne EX500/EX600 MFD... Page 126 Datalink Radar resolution. The "Low" setting uses the least message units and most likely will provide the fastest updates. Increasing this setting provides improved Datalink Radar details, but, in turn, increasing the message units can decrease the actual update rate. Avidyne EX500/EX600 MFD -114- 600-00078-001 Rev 05... Page 127 ■ AIRMETS / SIGMETs - AIRMET/SIGMET ■ SUA Status - Special Use Airspace (SUA) status. The Avidyne NOC does not support SUA Status. Note: Some data types do not change often during the day and will Note: therefore be updated only when they change. Datalink (Optional) Do not rely on the EX500 as your sole source for TFRs. The status Note: of TFRs may change or may be unavailable. Before conducting a flight, always confirm the state of TFRs with FAA Flight Service. 8) Save - Saves any changes made and return to the Aux page. Page 129 MultiLink enabled. This will cause the system to use a minimum of 2-Way Datalink data on each flight for session management and position reporting. 600-00078-001 Rev 05 -117- Avidyne EX500/EX600 MFD... Do not use Datalink Messaging in terminal or high traffic areas. To access the Datalink Messaging page, press the Datalink Setup key on the Aux page. Avidyne cannot guarantee the privacy of your Datalink Note: Messaging communications. For more information, see the Avidyne Privacy Policy on www.MyAvidyne.com. 5) Message Text - The text of the message. Text color indicates the source of the message as follows: Color Heading Green Messages received from the ground. White Messages entered into the EX500/EX600 for transmission. Blue Messages received from the Avidyne NOC. 600-00078-001 Rev 05 -119- Avidyne EX500/EX600 MFD... Page 132 10) Scroll Up / Scroll Down (Not shown) - These keys appear if the message display area is full and new messages are sent or received. Press either key to scroll the message display area up or down by one full message. Avidyne EX500/EX600 MFD -120- 600-00078-001 Rev 05... Messages sent from the ground to the airplane will be re- Note: attempted for 24 hours. It is possible to miss a message that was sent after landing, and receive it the next day. 600-00078-001 Rev 05 -121- Avidyne EX500/EX600 MFD... Figure 10.16 Incoming Message Alert 2) To view the new message, turn to the Aux page and select Datalink. The full text of the new message is displayed in the message display area. Avidyne EX500/EX600 MFD -122- 600-00078-001 Rev 05... Lightning Messages, page 151 ● Two-Way Datalink Messages, page 154 ● Broadcast Datalink Messages, page 156 ● TAWS Messages, page 159 ● Radar Messages, page 161 ● Abbreviations and Definitions, page 163 600-00078-001 Rev 05 -123- Avidyne EX500/EX600 MFD... Broadcast Radio Serial Number (ID Number) To obtain the ID of the Broadcast receiver installed in your aircraft, open the EX500/EX600 Trip page. Press the Display key until " 1 Status" (Broadcast Datalink status) is shown, and carefully enter your Radio Serial Number. To complete the activation: 1) Move your aircraft outside to an area with a clear view of the sky. 2) Power up both the EX500/EX600 and the Broadcast receiver and wait at least 30 minutes to allow the MLB700 to receive the activation signal. The Audio Package you want (details available at www.sirius.com). Choose the Audio service you want based on the channels that you would like to receive. ● Audio s/n - Power up your Avidyne Remote Control. The s/n is located on the first screen. ● Credit Card Information... Page 139 MLB700. 5) After the second power cycle, when your receiver receives the activation code, music can be heard through the pilot's audio panel. There is no interface between EX500/EX600 and the Sirius Note: Audio receiver. 600-00078-001 Rev 05... To verify that your receiver is activated: 1) Move your aircraft outside to an area with a clear view of the sky. 2) Power up both the EX500/EX600 and the Broadcast receiver and wait at least an hour to allow the receiver to receive the activation signal. Page 141 Activating Broadcast Datalink Accounts The EX500/EX600's Service Level indication may take Note: several flights to synchronize to the correct level but you will still receive and see the weather products you have purchased. Contact Heads Up Technologies for problems relating to your Note: receiver or assistance with service. You can set your 2-Way Datalink user preferences online prior to your flight. The preferences will be downloaded to your EX500/EX600 via satellite the next time you fly. Avidyne EX500/EX600 MFD -130... If the Flight Center key is not displayed on your MyAvidyne Note: page, the NOC has not yet detected the Broadcast receiver. Try activating the Broadcast receiver again as described in What is Next? on page 125. 600-00078-001 Rev 05 -131- Avidyne EX500/EX600 MFD... A cleaning solution composed of de-ionized water or isopropyl alcohol (IPA). The EX500/EX600 screen is made of a plastic film that is vulnerable to scratches, damage by a sharp articles or improper cleaners. Use care when cleaning. Always apply the cleaning solution directly onto the cloth. Updating Your Databases 11.5 Updating Your Databases 11.5.1 Types of Databases The EX500/EX600 can contain up to four separate databases. They are: " ■ CMax Chart Data is an optional Avidyne feature that allows you to view JeppView Charts on your EX500/EX600. About Portable USB Devices You can use a portable USB device (either a Zip Drive or a USB Flash Memory Drive) to move data between your PC and the EX500/ EX600. For more information about the databases and about loading data from your PC to a portable USB device, see the Avidyne Data Update Guide (P/N 600-00148-000). Page 147 Updating Your Databases This section describes how to move data from a portable USB device (a 250MB Zip Drive or USB Flash Memory Drive) to the EX500/ EX600. If using a Zip Drive Dataloader: • Do not let the portable Zip Drive dangle by the cable. It can result in damage to your MFD or the Drive, as well as a dataload failure. It can also cause an intermittent connection, which will result in an unsuccessful data update. 4) Turn on the EX500/EX600. If you are using a Zip Drive, insert the Zip disk into the Zip Drive when the initial FlightMax logo screen is displayed. . For a Zip Drive, there is no disk or the disk was not found. . The Zip Disk is incorrectly formatted. 5) Press Proceed to start the update. Do not turn off the EX500/ EX600 or disconnect the cable during a data load. The data load is complete when the, "Press Any Bezel Key"... Page 150 It can also cause an intermittent connection, which will result in an unsuccessful data update. 2) Turn ON the EX500/EX600. If you are using a Zip Drive, insert the Zip disk into the Zip Drive when the initial FlightMax logo screen is displayed. Page 151 6) When the operation has been completed, the EX500/EX600 will display the, "Press any Bezel Key" message. 7) At this point, turn OFF power to the EX500/EX600, remove your portable USB device, and then turn the EX500/EX600 power back on. Black No significant terrain/obstacle. 16% Blue Peaks only. Water at sea level elevation (0 feet MSL). Magenta Unknown terrain. No terrain data in the data base for the Dots magenta area shown. Avidyne EX500/EX600 MFD -140- 600-00078-001 Rev 05... >=3,000 and =2,500 and =2,000 and =1,500 and =1,000 and =500 and =0 and 20 minutes older than 20 minutes. Narrowcast Data not Datalink is Enabled and Acknowledge yet received no Datalink data has been received within 10 minutes of EX500/ EX600 initialization complete. Avidyne EX500/EX600 MFD -154- 600-00078-001 Rev 05... Page 167 15 minutes of the initial Datalink update. Datalink: Idle No data being sent or None necessary. received. NXR Invalid Datalink Radar Wait for next temporarily not able to Datalink Radar update. be displayed. 600-00078-001 Rev 05 -155- Avidyne EX500/EX600 MFD... Pilot Action Broadcast Receiver EX500/EX600 Have the wiring from Not Communicating the broadcast receiver received no data from to the EX500 inspected. the broadcast receiver for 10 minutes Broadcast Antenna The Broadcast Datalink Have the Broadcast is Disconnected antenna or cable is not... Page 169 Broadcast METAR data Monitor Broadcast > 120 min age since creation is system during flight, greater than 120 have system inspected minutes. METAR data if performance does not can no longer be improve. displayed. 600-00078-001 Rev 05 -157- Avidyne EX500/EX600 MFD... Broadcast TFR data age Monitor Broadcast 90 min since creation is greater system during flight. than 120 minutes. TFR have system inspected data can no longer be if performance does not displayed. improve. Avidyne EX500/EX600 MFD -158- 600-00078-001 Rev 05... ECPWS control panel, the correct. If the ECPWS TAWS Display page is is not inhibited and if painted with magenta dots this message persists, overlaid by the large text contact maintenance. annunciation TAWS DISPLAY INHIBITED. 600-00078-001 Rev 05 -159- Avidyne EX500/EX600 MFD... Page 172 EX500/EX600 check configuration and installation. Whenever the TAWS Display is unavailable due to this failure, the TAWS Display page is painted with magenta dots overlaid by the large text annunciation TAWS NOT COMMUNICATING. Avidyne EX500/EX600 MFD -160- 600-00078-001 Rev 05... Automatic Radar ON, Auto Standby is Take care to turn Radar Standby Disabled selected, and ground speed OFF upon landing, as is invalid. the "Speed below 20KT" caution will not be provided 600-00078-001 Rev 05 -161- Avidyne EX500/EX600 MFD... Page 174 Radar Failure The Radar system has Momentarily select failed. This error will not be Standby, then reselect EX500/ mode. Have cleared until the maintenance check R/T. EX600 is shut down and restarted. Avidyne EX500/EX600 MFD -162- 600-00078-001 Rev 05... Tactical Air Navigation Terminal Aerodrome Forecasts Traffic Advisory System True Air Speed TAWS Terrain Awareness and Warning System TCAD Traffic and Collision Alert Device TCAS Traffic Alert Collision Avoidance System Temporary Flight Restrictions 600-00078-001 Rev 05 -163- Avidyne EX500/EX600 MFD... Page 176 Visual Flight Rules Victor Airways Aerial highways that connect electronic navigation aids (more traffic). Victor Airways are 8 nautical miles wide (4 NM either side of the centerline) VHF Omnidirectional Radio Beacon Warning Avidyne EX500/EX600 MFD -164- 600-00078-001 Rev 05... Avidyne provides data only for North America (including the United States and Canada). ● XM WX Weather—XM WX Satellite Weather (Broadcast Datalink), and therefore the EX500/EX600 Datalink features, are not currently available outside North America. ● WSISIRIUS Weather—WSISIRIUS Satellite Weather (Broadcast Datalink), and therefore the EX500/EX600 Datalink features, are not currently available outside North America. South America, call +1-303-799-9090, for eastern hemisphere, including Europe, call +49 6102 5070). ● Terrain Data—Avidyne provides terrain data for two areas: the Americas (North and South America), and International (excluding Americas). If you are flying in an area where your current terrain data is not supported, terrain will not display (similar to the Base view on the Map page). (c) The Product has not been altered in any manner other than as previously authorized by Avidyne in writing; and (d) Repairs to the Product have not been made by anyone other than Avidyne or an Avidyne authorized service facility. Page 180 RELATED TO PRODUCTS NOT MANUFACTURED BY AVIDYNE OR REGARDING OR RELATED TO THE PERFORMANCE OR RELIABILITY OF ANY SUCH PRODUCT, EITHER ALONE OR WHEN USED WITH ANY PRODUCT MANUFACTURED BY AVIDYNE, OR THE SUITABILITY OF ANY SUCH PRODUCT FOR USE WITH ANY PRODUCT MANUFACTURED BY AVIDYNE. License and Certain Restrictions You may use the Software on the EX500/EX600 on which it was delivered. You may not copy the Software for any purpose. You may not transfer the Software or any rights under this Agreement to another party without this Agreement. Page 182 Agreement, understand it, and agree to be bound by its terms and not those contained in your purchase order. If you do not agree to the terms of this license, Avidyne is unwilling to license the product to you. In such event, you may not use or copy the product, and you should promptly contact Avidyne for instructions on return of the unused product(s) for a refund. Page 184 AVIDYNE CORPORATION 55 Old Bedford Road Lincoln, MA 01773 Telephone: +1-781-402-7400 Toll Free (US): 800-AVIDYNE (800-284-3963) FAX: +1-781-402-7599 www.avidyne.com P/N 600-00078-001 Rev 05 March 10, 2011...

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