



IFD100 Tablet Application & IFD Training Simulator **Quick Reference Guide**



Revision History

Rev Number	Date of Release	Reason for Release
00	Feb 2017	Initial Release of document that coincided with Software Release 10.2.0.0
01	July 2017	Added IFD simulator & MK10 instructions

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IFD100 System Overview

Avidyne strongly recommends that pilots use the IFD100 system only under VFR conditions until completely familiar with its operation and use.

To learn about the app functions and how to use those functions, refer to the pilot guide for the panel mounted IFD that this app is connected to.

This quick reference guide is only intended to highlight some of the layout or behavioral differences that were made to optimize it for mobile touch only devices.

IFD100 Integrated Flight Display



INTENDED FUNCTION

The Avidyne IFD100 is a mobile application that is a non-certified PED (Portable Electronic Device) that is running similar software as the panel mounted IFD Series of Navigators. It is a non-required, supplemental app that is designed as a convenience for

the pilot. It should be considered to be a second instantiation of the panel mounted IFD, as it uses that systems data.

NOTE

No Internal GPS Use

The IFD100 does not make use of the internal iPad GPS. In order for the IFD100 app to receive GPS position, it must be connected to a panel mounted IFD.

Functional Overview

CONNECTION CONFIRMATION

There are a few visible indications that the user has a connection between the panel mounted IFD and the IFD100. One example is the frequency datablock will go from the red X'd (failed state) to populated with the frequencies currently displayed on the panel mounted IFD550/540/440. If you are connecting to an IFD550 or IFD545, the button for the SVS page will appear. For IFD410 or IFD510 users, a tone will sound (similar to the TOD chime) when you have successfully transferred flight plan data.

OFFLINE USE

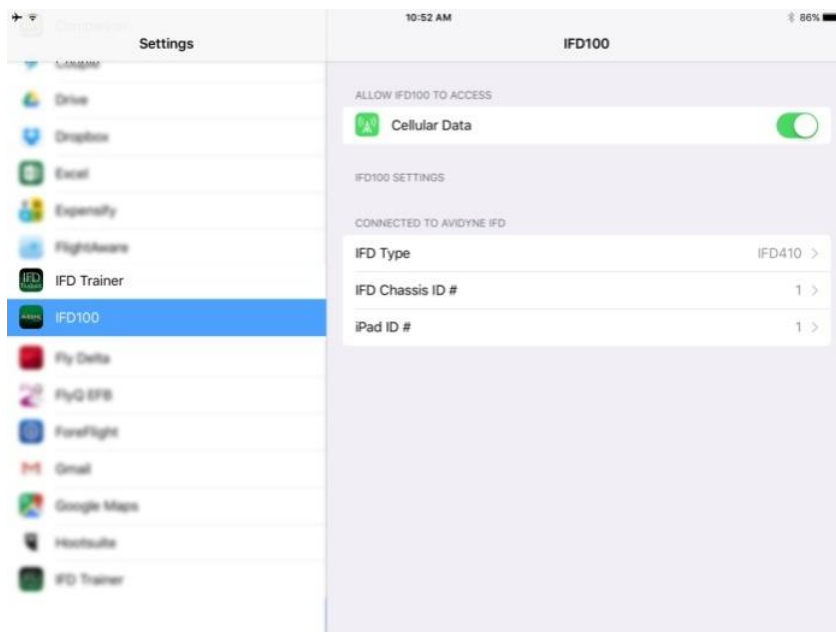
The IFD100 will have limited functionality offline (not connected to a panel mounted IFD). The user will be able to save routes for later upload to the panel mounted IFD. The IFD100 adds saved stored routes to the route list found on the panel mounted IFD. For more information regarding how to save stored routes, see the appropriate pilot guide for the panel mounted IFD installed in the aircraft.

The IFD100 is not designed as a preflight application. The application does not have capabilities to connect to the internet for services such as preflight weather briefings, flight plan filing or weather radar display.

INITIAL CONFIGURATION

Power on the panel mounted IFD and acknowledge the startup screens. If Wifi is enabled in the settings, a large green message box will be displayed giving you the choice to Allow WiFi interactions. Once Allow is pressed, the WiFi signal symbol will be displayed in the top right corner of the IFD display. Next, go into the iPad settings (i.e. where you normally switch your Wi-Fi host). In the iPad settings, scroll the left side navigation bar until you see a list of applications installed on your iPad. From that list, select the "IFD100" app (see image below). This is where you will configure the IFD100 to match the IFD that is installed in your panel. An important note, the IFD Chassis ID* must match the panel "Sys ID". The iPad ID # is for users electing to use multiple iPads (a maximum of 2 iPads can be connected to a single panel IFD).

IFD100 Settings



TIP

How do I find my IFD Chassis ID?

While your panel mounted IFD is on, go to the AUX page and select the SYS tab. The "Sys ID" on this tab is the IFD Chassis ID #.

NOTE

Where is the WiFi logo?

If the green box does not appear, then the WiFi may not be enabled in the user settings. Check that WiFi selection on the AUX page user settings is set to "on". If the WiFi user setting is not shown (greyed out), the IFD might not have the WiFi option.

START-UP SEQUENCE

The startup sequence of the IFD is as follows:

- A Jeppesen log in screen appears. This application requires equivalent database cycles to those loaded on your panel mounted IFD. Use the same account information that you use for your panel mounted IFD databases. For this step, you must have an internet connection to access the Jeppesen servers. Demo databases are available for familiarization only (log in with no username or password).

JEPPESEN LOG IN SCREEN

JEPPESEN Update Navigation Databases

Username: Enter your user name here

Password: Enter your password here

This Application requires equivalent database cycles to those loaded in your Avidyne IFD series avionics. You can download these databases from Jeppesen using the same account you used to update your avionics. In order to do so, you must have an internet connection to access Jeppesen servers. Demo databases are provided for familiarization only, by Logging in with no user or password. Please use the following links in case you [Forgot your Password](#) or want to [Create a New Account](#) or contact [Jeppesen Customer Service](#).


Exit Jeppesen Login

- If there are 3rd party weather or traffic sensors connected to the IFD, then a vendor mandated disclaimer page is presented advising the pilot that those products are installed.
- The IFD100 is now ready for use.


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
DATABASE DOWNLOAD PAGE

After logging in, you will see a list of databases that can be downloaded with this serial key. Available databases will be shown with a blue cloud and those that are already installed will be shown with a green checkmark. Base Map and Terrain data is available on all accounts. Terrain data takes a lot of storage space and regions that are not flown over do not need to be downloaded. You can only have one Nav region and one Obstacle region loaded at a time.


JEPPesen
A BOEING COMPANY

Update Navigation Databases




	NavData Jeppesen TEST1	Americas 13898 KB	Cycle: 1702 Effective: 02 FEB 2017 - 02 MAR 2017
	NavData Jeppesen TEST1	Americas 13971 KB	Cycle: 1703 Effective: 02 MAR 2017 - 30 MAR 2017
	Obstacles Jeppesen TEST1	Americas 1065 KB	Cycle: 1702 Effective: 02 FEB 2017 - 02 MAR 2017
	Obstacles Jeppesen TEST1	Americas 1071 KB	Cycle: 1703 Effective: 02 MAR 2017 - 30 MAR 2017
	Electronic Charts Jeppesen TEST1	Canada IFR 62291 KB	Cycle: 04-2017 Issue Date: 24 FEB 2017
	Electronic Charts Jeppesen TEST1	Full USA IFR 204764 KB	Cycle: 04-2017 Issue Date: 24 FEB 2017
	MapData Avidyne Base Map & Roads	WorldWide 74763 KB	Cycle: 10-2 Published: Oct 18 2016
	Terrain Jeppesen	Africa 349968 KB	Cycle: 15T1 Issue Date: 05 AUG 2015
	Terrain Jeppesen	Antarctic 88039 KB	Cycle: 15T1 Issue Date: 05 AUG 2015
	Terrain Jeppesen	Arctic 159491 KB	Cycle: 15T1 Issue Date: 05 AUG 2015
	Terrain Jeppesen	Europe 213514 KB	Cycle: 15T1 Issue Date: 05 AUG 2015
	Terrain Jeppesen	NAmerica 274502 KB	Cycle: 15T1 Issue Date: 05 AUG 2015
	Terrain Jeppesen	NAsia 344628 KB	Cycle: 15T1 Issue Date: 05 AUG 2015
	Terrain Jeppesen	Oceania 253558 KB	Cycle: 15T1 Issue Date: 05 AUG 2015
	Terrain Jeppesen	SAmerica 246669 KB	Cycle: 15T1 Issue Date: 05 AUG 2015


Electronic Charts and Terrain geographical regions are supplemental and will be merged with previously loaded regions. Obstacles and NavData regions are exclusive and will overwrite the previously loaded region. All databases are optional and may be omitted, if their associated functions are not required. Demo databases are provided for familiarization only. To enable Flight Plan transfers the Application NavData must match the IFD's NavData region and cycle. For more information on update cycles please visit: [Cycles](#) For notifications and alerts please visit: [Alerts](#)

Exit
Select database to download
Download

UPDATE DATABASE SETTING

Touching the setting icon in the top right corner will flip the display to this setting page. Here you can see what serial key you have activated and you can deactivate it by tapping Deactivate. This will free up a device and erase all currently installed databases! There is also a log of all the interactions that have occurred in this session and any errors that may have happen. This log can be copied and pasted into an email to tech support.

 **JEPPESSEN**
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Update Navigation Databases 

Subscription Serial Number: EXJ7-8CUD-8B3E-JMR3

Alternate Jeppesen Database Server URL:

Alternate Avidyne Database Server URL:

Activity:
2017-02-23 15:43:05 +0000: Avidyne App version 10.2.1
iOS9.3.2 on iPad, Jeppesen API version 5.0
2017-02-23 15:45:37 +0000: Requesting Available Seats...
<available_seats> 6
<tail_number> TEST1
<available_seats> 14
<tail_number> TEST1 success
2017-02-23 15:45:42 +0000: Jeppesen New Device
2017-02-23 15:46:23 +0000: Activating key: EXJ7-8CUD-8B3E-JMR3
2017-02-23 15:46:23 +0000: EXJ7-8CUD-8B3E-JMR3 Activating this device...
<site_key> EKKA-ZKUR success
2017-02-23 15:46:26 +0000: Requesting Jeppesen Services...
<customer_number> 1493953
<service_code> DAYN5253
<unique_service_id> 16446911
<oracle_aircraft_tail_number> TEST1
<service_type> NavData
<avionics> Avidyne IFD 540
<coverage_desc> Americas
<version_start_date> 2017-02-02 06:00:00
<version_end_date> 2017-03-02 06:00:00
<filename> dayn52_1702_93AFDB0E.zip
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<display_version> 1702
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<customer_number> 1493953
<service_code> DAYN5253
.....


ExitSettingsDeactivate










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DOWNLOAD A DATABASE

Touch the row of the database you wish to download and tap Download at the bottom right to start the download. Once the download starts, it can be cancelled by tapping Cancel. All other interactions are suppressed. There is a download progress bar located at the bottom. Any error that occurs during the download will be shown below it and in the activity log on the flip setting page.


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Update Navigation Databases 

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Cancel
Downloading...
Download
















MERGE CHARTS

Multiple Chart regions can be merged and used together in the App. This requires an extra step after the download completes. Once all the desired databases are downloaded you can Exit.

At this point you want to close the App if it didn't close itself or send it to the background. You will need to switch the WiFi network to the IFD.



Update Navigation Databases

	NavData Jeppesen TEST1	Americas 13898 KB	Cycle: 1702 Effective: 02 FEB 2017 - 02 MAR 2017
	NavData Jeppesen TEST1	Americas 13971 KB	Cycle: 1703 Effective: 02 MAR 2017 - 30 MAR 2017
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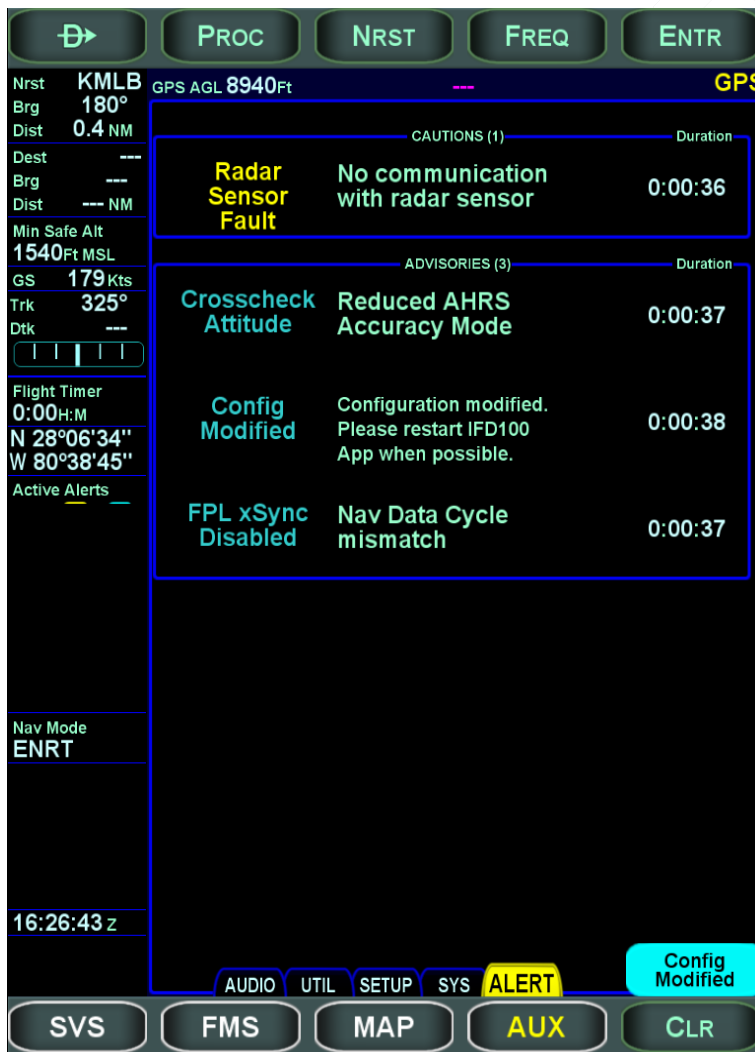
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CancelMerging Chart coverage...Download

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FIRST TIME CONFIGURATION

The very first time the IFD100 connects to a new IFD it will read the IFD sensor setup and configuration. If there is a change to the current configuration of the IFD100 a CAS message will be displayed asking you to restart the IFD100 App. You must do so in order for the sensor data to be read correctly. There will be another CAS message in the case that the Nav databases do not match between the IFD100 and IFD. In that case, the automatic FPL transfer will be disabled.



PAGE FUNCTION KEYS

To learn more about the information on the PAGEs and TABs, refer to the appropriate Pilot Guide for the IFD that is installed in your aircraft.

GENERAL IFD100 OPERATIONS

The IFD100 Integrated Flight Display (IFD) is a touch screen display that has been designed to work with all panel mounted IFDs.

SCREEN LAYOUT (LANDSCAPE)

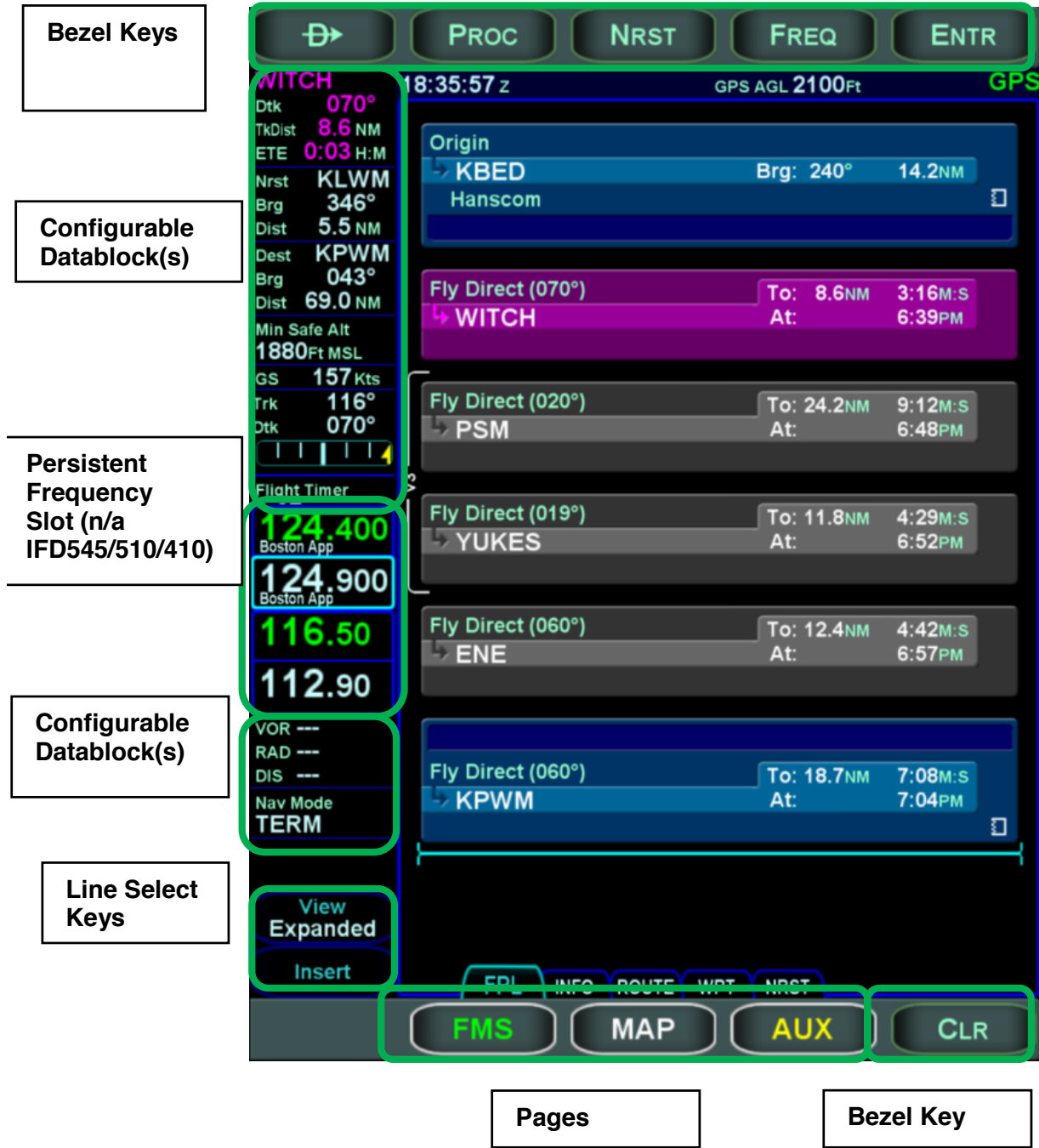
The diagram illustrates the IFD100 screen layout in landscape mode. The screen is divided into several sections:

- Top Bar:** Displays the time (18:35:43 z), GPS altitude (GPS AGL 2090Ft), and a GPS status indicator (GPS).
- Left Panel:** Contains persistent frequency slots (124.400, 124.900, 116.50, 112.90) and configurable datablocks (VOR, RAD, DIS, Nav Mode, TERM). Below these are line select keys (LSK) for View Expanded, Insert, and a directional pad. At the bottom of the left panel are bezel keys for PROC, NRST, and FREQ.
- Main Display Area:** Shows flight data including Origin (KBED, Hanscom), Fly Direct (070°) to WITCH, Fly Direct (020°) to PSM, Fly Direct (019°) to YUKES, Fly Direct (060°) to ENE, and Fly Direct (060°) to KPW/M. Each entry includes distance (To) and time (At).
- Bottom Panel:** Features a row of tabs (FPL, INFO, ROUTE, WPT, NRST) and four large bezel keys (FMS, MAP, AUX, CLR).

Labels on the left side of the diagram indicate the function of the highlighted elements:

- Persistent Frequency Slot (n/a IFD545/510/410):** Points to the frequency slots.
- Configurable Datablock(s):** Points to the VOR, RAD, DIS, Nav Mode, and TERM datablocks.
- Line Select Keys (LSK):** Points to the View Expanded, Insert, and directional pad keys.
- Bezel Keys:** Points to the PROC, NRST, and FREQ keys.
- Pages:** Points to the FPL, INFO, ROUTE, WPT, and NRST tabs.
- Bezel Key:** Points to the FMS, MAP, AUX, and CLR keys.

SCREEN LAYOUT (PORTRAIT)



DISPLAY DIFFERENT PAGES

The IFD100 and the panel mounted IFD that the IFD100 is connected to do not have to be on the same page or tab while functioning. An example, a user has programmed an approach at an airport on their panel IFD. The user wants to recall the minimums for that particular approach, instead of leaving the FMS page, FPL tab that they are on, they can select the CHART tab on their IFD100 (assuming they are connected to an IFD5XX). Another example, a user has limited panel space so they opted for the IFD4XX series. The user also utilizes a flexible arm mount for their iPad that displays the IFD100 app. The user wants to have the FMS page with the FPL tab open on their IFD4XX and the MAP page open on their IFD100.

DIFFERENT NAV DATABASES

The IFD100 and the panel mounted IFD do not have to have the same cycle navigation database however, the panel mounted IFD will not share flight plan information with the IFD100 (or vice versa).

RADIO TUNING

The IFD100 has the capability to tune the standby VHF radio slot of both the Com and Nav. The capability is limited to tuning, pressing the flip-flop key on the panel mounted IFD bezel is needed to move the standby frequency into the active.

COOL FEATURE

Have two iPads?

You can connect your IFD100 to the IFD Trainer app. When the IFD100 and the IFD Trainer app are on the same network, they will exchange information back and forth. This is a great feature to help the user visualize the functions of the IFD100 in flight.

NOTE

Have two IFDs?

It is highly recommended that only one IFD have WiFi turned on in a dual IFD installed aircraft.

IFD iPad Simulator System Overview

INITIAL OPERATION

Similarly to the IFD100, the IFD iPad simulator uses a Jeppesen database for Navigation, Charts, Terrain, Obstacles and MapData. For maximum realism while training, if the user has a Jeppesen subscription for their aircraft, they can enter in their Jeppesen credentials so that they can match the databases to what they have in their aircraft.

IMPORTANT NOTE

No Jeppesen account?

If the user does not have a Jeppesen account or wishes to not use their account, the user can still log in by leaving the credential fields (username and password) blank. This will grant the user access an expired set of data for demo and training purposes.

DOWNLOADING A DATABASE

To download a database, the iPad must be connected to a network (either wifi or cellular). Touch the row of the database you wish to download and tap "Download" at the bottom right to start the download. Once the download starts, it can be cancelled by tapping Cancel. All other interactions are suppressed. There is a download progress bar located at the bottom. Any error that occurs during the download will be shown below.

DEMO SET OF DATA

✓	eCharts	USAIFR	Demo Only
	Not For Navigation	17779 KB	
✓	NavData	WW	Demo Only
	Not For Navigation	15113 KB	
✓	Obstacles	WorldWide	Demo Only
	Not For Navigation	1429 KB	
✓	MapData	WorldWide	Cycle: 10-2
	Avidyne Base Map & Roads	74763 KB	Published: Oct 18 2016
⬇	Terrain Jeppesen	Africa	Cycle: 15T1
		349968 KB	Issue Date: 05 AUG 2015
⬇	Terrain Jeppesen	Antarctic	Cycle: 15T1
		88039 KB	Issue Date: 05 AUG 2015
⬇	Terrain Jeppesen	Arctic	Cycle: 15T1
		159491 KB	Issue Date: 05 AUG 2015
✓	Terrain Jeppesen	Europe	Cycle: 15T1
		213514 KB	Issue Date: 05 AUG 2015
✓	Terrain Jeppesen	NAmerica	Cycle: 15T1
		274502 KB	Issue Date: 05 AUG 2015
⬇	Terrain Jeppesen	NAsia	Cycle: 15T1
		344628 KB	Issue Date: 05 AUG 2015
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Exit Select database to download Download

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Once you have downloaded the data set you want, you can press exit and the app will automatically boot into the simulator.

In the simulator, the aircraft speed, heading and altitude can be controlled using the sliders on the bottom and side of the app window. The simulation can also be paused by toggling the "Simulator" slider at the bottom of the app from "FLY" to "STOP".

SWITCHING IFD MODELS

The switching of IFD types (IFD550, IFD540, IFD440), can be found in the iPad settings, similarly to where the IFD100 settings, previously mentioned are located.

MK10 Bluetooth Keyboard Overview

INTENDED FUNCTION

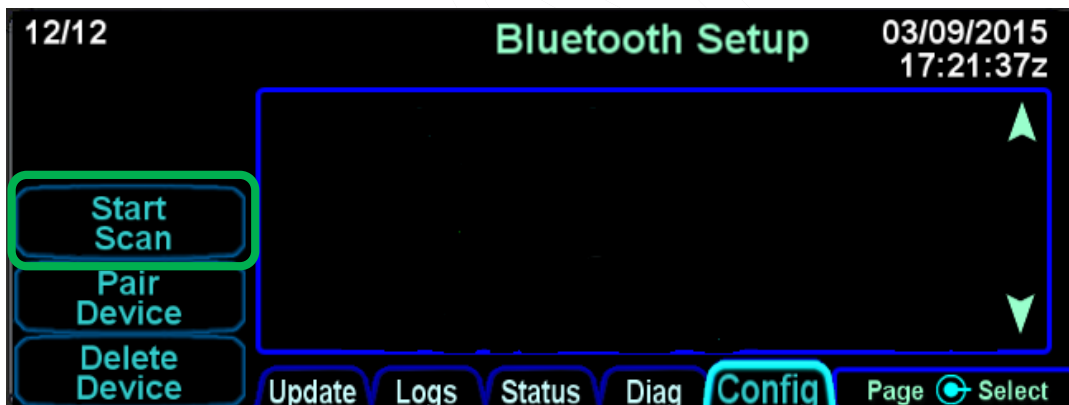
The Avidyne MK10 is a Bluetooth® keyboard is a non-certified PED (Portable Electronic Device) that aides the user with data entry into the panel mounted IFD Series of Navigators. It is a non-required, supplemental product that is designed as a convenience for the pilot.

INITIAL CONFIGURATION

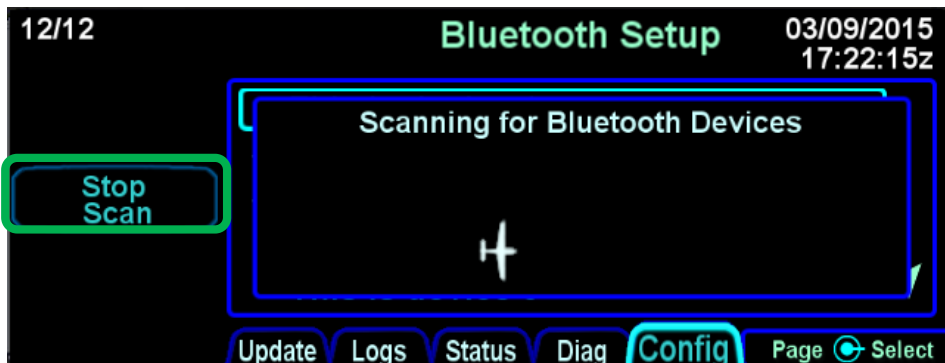
Power on the panel mounted IFD and acknowledge the startup screens. If Bluetooth is enabled in the settings, a large green message box will be displayed giving you the choice to Allow Bluetooth interactions. Once Allow is pressed, the Bluetooth signal symbol will be displayed in the top right corner of the IFD display. Next, go into the panel IFD Maintenance mode settings

(i.e. where you update NavData on your unit) and follow the below steps:

1. Ensure the supplied keyboard has adequate charge; turn it on using the left side switch (Avidyne supplied unit);
2. Ensure Bluetooth is turned on in the User Options page of the IFD;
3. Ensure the IFD has been powered on for at least one minute, and is in Maintenance Mode with the Bluetooth® Pairing page displayed;
4. Activate the pairing control on the keyboard (make it “discoverable”) to put the keyboard into pairing mode by pressing the button on the back of the Avidyne supplied keyboard;
5. Press the “Start Scan” line select key



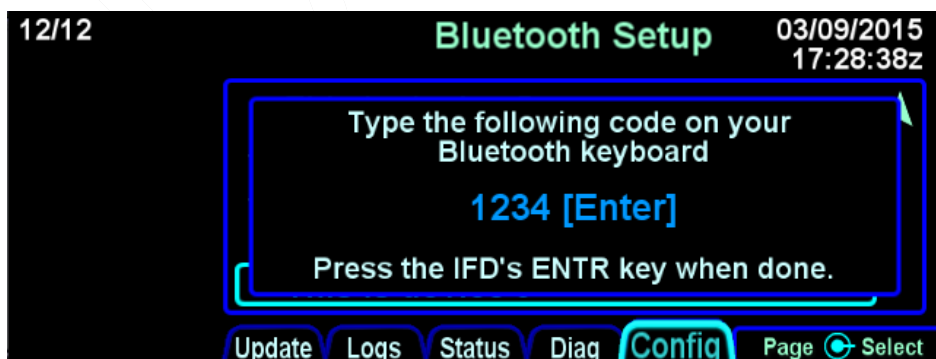
6. Press the “Stop Scan” line select key once the keyboard is discovered.



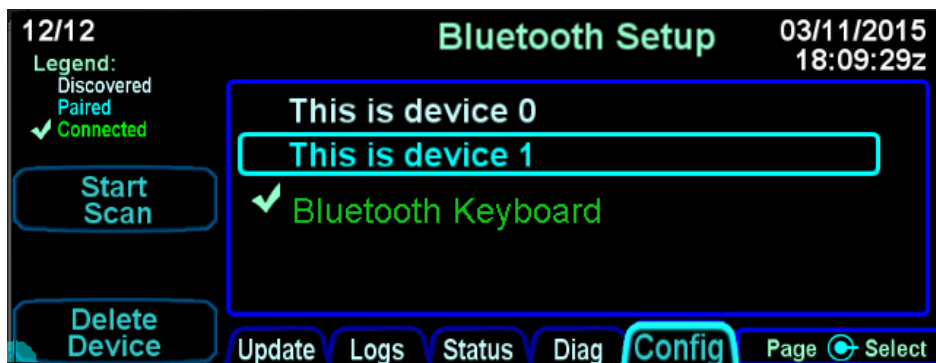
7. Select the device you want to pair with by using the bottom right IFD knob to put the cyan wraparound cursor on the desired device;
8. Press the "Pair Device" line select key and wait for the PIN code to appear;



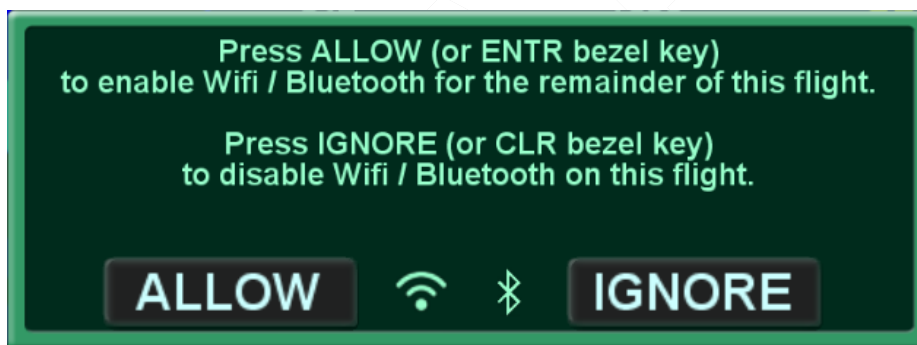
9. Enter the PIN code using the external keyboard and press "ENTER" on the keyboard;



10. The selected device in the list will turn green if pairing was successful.



11. If the device name does not turn green or disappears, retry the procedure from step 4;
12. Put the IFD back into flight mode;
13. Press ALLOW to enable WiFi and Bluetooth interactions;



14. On the Bluetooth® keyboard, type in a new com frequency and verify the value on the IFD updates accordingly. If it did, pairing was successful and complete.

KEYBOARD LAYOUT



1. Keyboard Status lights
 - a. Flashes Yellow when keys are pressed (paired)
 - b. Solid Red when charging
 - c. Flashes Green during pairing, Solid Green when paired
 - d. Not supported
2. When paired, press this key for backlighting of keys
3. Com/Nav flip flop
4. Audio volume and mute controls
5. Navigation and Frequency buttons
6. OBS toggle

7. Com preset cycle button
8. Map zoom
9. Com/Nav/Transponder (when AXP322 installed) toggle
10. IFD Pages selection

RECOMMENDED IPADS/SOFTWARE LEVEL

For the best experience we highly recommend that the IFD100 and the IFD simulator be run on an iPad 2 or later, running IOS 9.1 or later.

Website There is a dedicated website that provides more information on this product at:

<http://www.avidyne.com/products/ifd/ifd100.html>

FAQs <http://www.avidyne.com/files/downloads/literature/IFD540-FAQ.pdf>

Service Hotline A hotline has been established to service questions or issues regarding Avidyne products. The U.S. Toll Free number is 1-888-723-7592. International toll free numbers are listed at <http://www.avidyne.com/contact/intphones.html>

Email Customer/product support issues can be emailed as well at techsupp@avidyne.com

When calling or emailing for product-related help, please have the following information available, if able:

- Customer Name/Account Information
- Aircraft tail number, IFD serial number, and software versions.
- iPad model, storage size and iOS version
- A good description of the problem or question.
- A copy of your data logs.



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