# QUICK REFERENCE

#### IFD440 FMS/GPS/NAV/COM IFD410 FMS/GPS IFD100 App for iPad





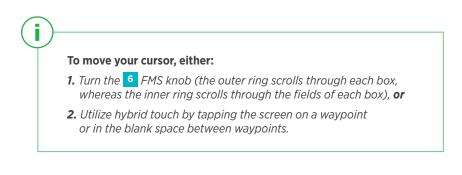


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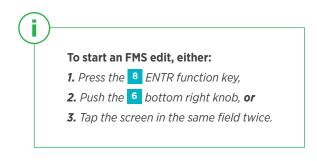
#### QuickReference IFD4XX

#### **Overview Diagram**





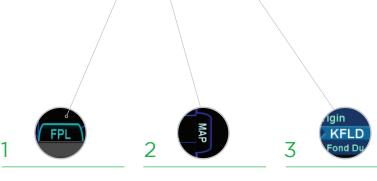
Volume/Power/ Squelch Knob	8	Enter (select)
Frequency Swap (flip-flop)	9	Procedure
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COM/NAV* Manual Tuning Knob (Push for NAV & Transponder)	11	CDI Nav Source
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Clear (delete)	14	Active Frequency*
	Squelch Knob Frequency Swap (flip-flop) Line Select Keys (LSK) COM/NAV* Manual Tuning Knob (Push for NAV & Transponder) Page Function Keys (two-way rocker) FMS, MAP, AUX FMS Knob (context- sensitive: scroll, zoom/ push to select)	Squelch KnobaFrequency Swap (flip-flop)9Line Select Keys (LSK)10COM/NAV* Manual Tuning Knob (Push for NAV & Transponder)11Page Function Keys (two-way rocker) FMS, MAP, AUX12FMS Knob (context- sensitive: scroll, zoom/ push to select)13



\* Applies to IFD440 only.

## FMS Flight Plan Introduction FPL TAB





Following poweron, the first time the "FPL" tab of the FMS page is accessed, an empty flight plan page is presented with the origin waypoint pre-populated.

We recommend to tap the "Map" side tab to view the moving Map display while entering your flight plan.

The origin will be the closest airport to the current GPS position, or the airport from the previous power down if GPS position has not locked on yet.

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This FMS uses a database of published airways to quickly build long flight plans. Here's how: When a flight plan waypoint is a valid airway entry point, a dropdown list of available airways appears. Scroll to the desired exit point, and all intermediate intersections along that airway are automatically populated into the flight plan.

FPL TAR



To add a waypoint to your flightplan, tap the empty space where your cursor is below 'Origin.' The IFD will present a new wavpoint with a suggested identifier (powered by Geofill<sup>™</sup>).

Use the right knobs or tap the identifier to display the QWERTY kevboard in order to enter the wavpoint identifier.

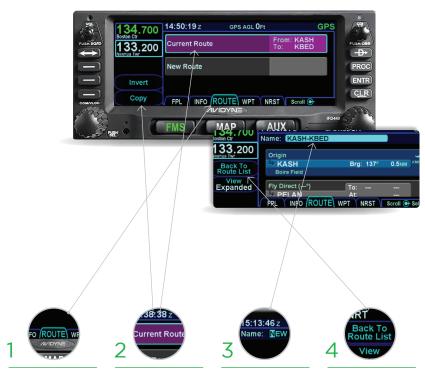
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on the QWERTY keyboard to enter the new wavpoint into the flight plan.



### Saving the Flight Plan ROUTE TAB



#### Once you have entered a Flight

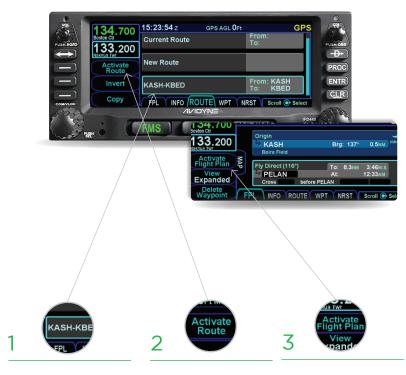
**Plan** that you would like to save for future use go to the route tab on the FMS page.

#### **Highlight current route** then select Copy in the bottom left of the screen.

You have now saved the Flight Plan as a route for future use. (You can also cusomize the name of the route here).

Select 'Back to Route List.' The route will now be one of your saved route selections.

#### Activate a Stored Route ROUTE TAB



To activate a route from the stored routes list, tap the desired route to select.

**To activate,** press the "Activate Route" LSK or touch-screen button.

**Then** press the "Activate Flight Plan" LSK or touchscreen button.



#### Direct-To Operation **FPL** TAB



Press the Direct-To button to display a green Direct-To dialog box pre-populated with a logical waypoint (powered by Geofill™). **To enter a different waypoint,** tap the data field in the top dialog box. The QWERTY keyboard appears for you to enter the desired waypoint identifier. **To approve,** tap the 'Activate' dialog box to select. Pressing ENTR or the right knob can also be used to confirm.

#### Selecting a Departure **FPL** TAB



To begin the process of selecting a departure procedure, tap on the Origin box to select. A 'Departure' field will appear. Tap the 'Departure' field. A dropdown list of available departure procedures will be displayed. Select the transition (departure Runway) and push ENTR.



#### Selecting an Approach **FPL** TAB



To display the Approach field of the next destination, press the "PROC" Function key.\* This will display a dropdown list of available published approaches.

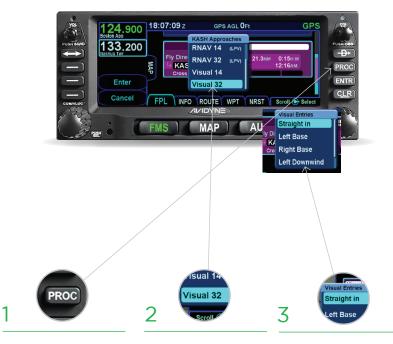
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**To select the desired Approach,** twist the FMS knob to scroll, then push to select, or tap the highlighted selection. **To select the Transition,** twist the FMS knob to scroll, then push to select, or tap the highlighted selection.

\*Pressing the "PROC" Function key a second time will move the cursor over the Arrival field and present a drop down list of available published arrivals. Each subsequent press of the "PROC" key will step through all following destination airfield approaches/arrivals in the flight plan, and wrap back around to the origin. When the drop down box appears over the intended data field, tap the desired procedure to add to the flight plan.

#### Selecting a Visual Approach

FPL TAB



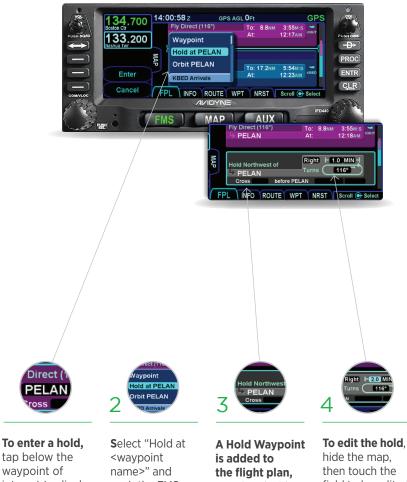
#### To select a Visual Approach for your destination airport ,

press the "PROC" Function key.\* This will display a dropdown list of available published approaches.

To select the desired Visual Approach, twist the FMS knob to scroll down past any published IFR approaches to see the available Visual Approaches, then push to select, or tap the highlighted selection. Then select the Visual Entry, (Straight In, Left Base, Right Base, Left Downwind, Right Downwind) that works best for your direction of flight and approach angle.

**Go to Aux->Setup->FMS->Visual Approach Settings** to set the desired Glideslope Angle. The default setting is 4° but it can be set to any angle between 1° and 6° in 0.1° increments. Glideslope must be set to desired angle BEFORE loading the Visual Approach. Remember you are still flying a VFR approach and proper clearance and separation must be observed for the terrain in the area.

#### Entering a Hold FPL TAB



waypoint of interest to display a drop down list of options.

push the FMS knob to select.

populated with either standard or published hold data.

field to be edited (turn direction. leg length, inbound course).

### Exiting/Deleting a Hold

FPL TAB



To Exit the hold, select the "Exit Hold" Line Select Kev (LSK1), and the FMS will exit the hold the next time it passes the hold fix.

A blue CAS message will alert you that you are 'Exiting hold at Fix' on your next pass.

Should you need to continue to Hold, select "Continue Hold" using Line Select Key (LSK1).

#### **Other options**

include deleting the Hold Waypoint with CLR button, or you can highlight a downstream waypoint in the flightplan and select 'Activate Leg' (LSK3).



QuickReference IFD4XX

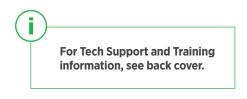
### Changing Map View MAP TAB:



#### Decluttering the Map MAP TAB:



**To select the preferred level of map density displayed,** from the Map Page, Map tab, press the "Land" LSK to declutter the terrain base map and/or "Nav" LSK to declutter off-route NavAids (Intersections, Airports, VORs etc). There are four levels of declutter for each. The specified level of detail will remain consistent across all map pages. (Terrain Awareness alerts and nearby Traffic are not affected by declutter settings.)





## TAWS/Synthetic Vision

CONVERSE CONVE



Select the TAWS Tab on the MAP page of the IFD5XX to view 3D Exocentric Synthetic Vision, which includes 3D Terrain, Obstacles, Traffic (when available), Airports.

Turning the bottom right knob or pinch zooming the display will adjust the perceived distance above and behind the ownship symbol.

#### Press the FPL button (LSK3) to turn off the Magenta Line and just have the shadow (which represents aircraft position over the ground), or push again to remove both. (On the TAWS page, the Magenta line will not appear unless your aircraft is 1,000 ft AGL or greater, and will disappear as you descend below 1,000ft.

ard



TAWS TAR.

When TAWS button (LSK2) is ON, the full TAWS-B capability is enabled, including:

- FLTA Altitude Callouts
- Premature Descent Alerts
- Excessive Descent Rate
- Negative Climb Rate

When TAWS button (LSK2) is OFF, FLTA, and PDA are disabled, but EDR and NCR remain enabled.

## COM Radio Tuning

#### Applies to IFD440 only.

Radio Tuning can be accomplished through 3 different methods.



NAV knob to direct-tune. Use the inner knob for KHz and the outer knob to adjust MHz.

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Notice that twisting the COM/ NAV knob also brings up the FREQ nomination list. Double click on the assigned frequency to transfer to STBY. Touch the standby frequency field to display the numeric keypad. Then enter the desired frequency.



**The Emergency COM Frequency, 121.5 kHz,** can be quickly tuned into the Active com slot by pressing and holding flip-flop button for approximately three (3) seconds.



#### NAV Tuning

Applies to IFD440 only.

Nav radio tuning can be accomplished through 3 different methods.



Use the COM/NAV knob. Push the knob to display NAV frequencies. Then, twist the inner knob to direct-tune got KHz and the outer knob to adjust MHz. Touch the standby frequency field to display the numeric keypad. Enter the desired frequency.

Touch the standby frequency, then "ABC..." to display the QWERTY keyboard. Type the identifier of the VOR (powered by GeoFill™).

## Activate the frequency.

Once the desired frequency has been tuned in to the standby, press the flipflop button to make it the active frequency.

## Updating Databases



#### **Insert Jump Drive in USB Port, then power up.** Jump drive must be formatted to FAT32 and should have your appropriate databases loaded already.

#### Use right knob to select Data file to be transferred to IFD.

Twist the FMS knob to highlight, then push to select each data type. A green Check Mark will appear by each. highlighted selection. Press PROCEED line select key (LSK). Press DONE button on screen when complete, and IFD will restart in

normal "Flight Mode."

You will notice that this operation puts the IFD into Maintenance Mode. You can also download Maintenance Logs from this page, pair your BT keyboard and more. Please use caution so as not to change port settings, For Tech Support and Training information, see back cover.



#### Connecting iPad to IFD via WiFi



From AUX->SETUP page, double touch or highlight and push right knob to expand the +Connectivity menu. Set IFD WiFi to 'ON' using touchscreen or by turning inner right knob. Go to Settings Menu on iPad and select WiFi that matches your IFD's Network name. Enter Password shown under +Network menu. Then launch IFD100 App so that IFD sees that you are trying to gain permission to connect.

Under +Devices menu, locate your iPad by name and change "Blocked" to "Always" if you want it to auto-connect on all subsequent flights. (you can also 'Block' unwanted iPad connections).

## Using IFD100 iPad App



It is important to note the NAV databases of your IFD5XX and your IFD100 App must match, in that they must be the same cycle (have the same expiration date). If you are not seeing a Flightplan on your IFD100 after launch and you know your WiFi connection is good, it's most likely that these do not match. You can verify database expiration dates by going to Go to AUX->SETUP and 'Status - Databases' page (LSK2).



#### IFD100 - Page & Tab





**Select different screens on the IFD100 in much the same way as with the panel mounted IFD5XX.** Page buttons on the IFD100 operate much the same as the IFD5XX. Touching any of the available Tabs will switch the display accordingly. Or you may access push the left or right side of the Page button on the IFD100 to sequence left or right through the available Tabs, acting just like the two-way rocker switches on the IFD5XX. Activate the Side Tab on the IFD100 just as you would on the IFD5XX-reither by touching it directly, or by touching andholding the highlighted Page button.

## IFD100 - Changing Map View

MAP TAB:



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## IFD100 - Synthetic Vision



**Select the TAWS Tab on the MAP page of the IFD100 to view 3D Exocentric Synthetic Vision,** which includes 3D Terrain, Obstacles, Traffic (when available), Airports.

The Terrain Awareness and Alerting feature shows nearby terrain within 1,000 feet as yellow hashed pattern, and terrain within 100 feet or above in red hashed pattern.

Pinch zooming the display will adjust the perceived distance above and behind the ownship symbol.

### IFD100 - Portrait Mode



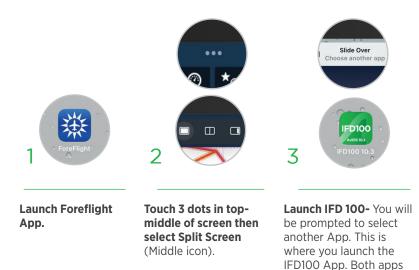
**Rotate your iPad for Portrait display** of all the same screens as in landscape mode, but with better vertical map distance.



## IFD100 - MultiTasking

**Multitasking -** allows you to view two Apps at the same time on single iPad. In this example, we will launch Foreflight and then add IFD100.





will now be running.

## NOTES

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#### **PILOT SUPPORT**

888.723.7592 Mon-Fri: 8:00AM-5:00PM EDT / 1200-2100 UTC visit: techsupport.avidyne.com email: pilotsupport@avidyne.com

**AFTER HOURS TECHLINE™** 877.900.4264

PILOT TRAINING avidynetraining.com

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