



# King Air 350 2D Panel Version 4.0

For Microsoft® Flight Simulator 2004  
and FSX

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A NEW PANEL FOR YOUR FS 2004 AND FSX KING AIR 350 AIRCRAFT



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## 1. Introduction

Thank you for purchasing the FriendlyPanels King Air 350 2D Panel. Here you will find the description, installing and user instructions for the KA 350 Panel.

There are very good and complex panels you can acquire in the market but, often, most of them require to open and close a lot of windows all the time, some of them covering others without any kind of integration with the rest of the panel elements.

The idea that leads us to develop this panel is very simple: a panel in which you can see, read and handle as many gauges as a medium quality monitor screen allows, using the minimum number of windows, with a gauges layout as real as possible and where you can open any new window clicking somewhere in the panel, with no need of using keyboard (also available, of course), making easier to use the panel. With this King Air 350 2D panel you will use just one view of the panel all of the time.

Please, read this document entirely.

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## 2. Installing and loading the panel

Run the installation program and follow the indicated steps. You'll find your new panels as the variation preceded by FP.

**Loading in FS9:** Go to Aircraft Menu, Select Aircraft, Aircraft manufacturer = Beechcraft, Aircraft model = King Air 350, Variation: FP FP White with yellow and black.

**Loading in FSX:** Go to Select Aircraft Menu, Mark Show All Variations at the bottom of this window, Select Aircraft, Aircraft manufacturer = Beechcraft, Publisher: FriendlyPanels, the variations preceded by FP will load this panel.

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## 3. Requirements

This panel requires Windows XP with at least SP1 and .Net Framework 1.1 and a screen resolution of 1024 x 768 or higher (1240 x 1024 recommended). No other special requirements are needed.

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#### 4. Panel



Real Panel

#### The FriendlyPanels Panel Views



Everything you need for simming, in sight.





Panel at night

## 5. Gauges

Many gauges are FP design for better visibility, although they work exactly like the ones in FS2004. Here follows how to handle gauges which may have some differences with the ones included in FS2004.

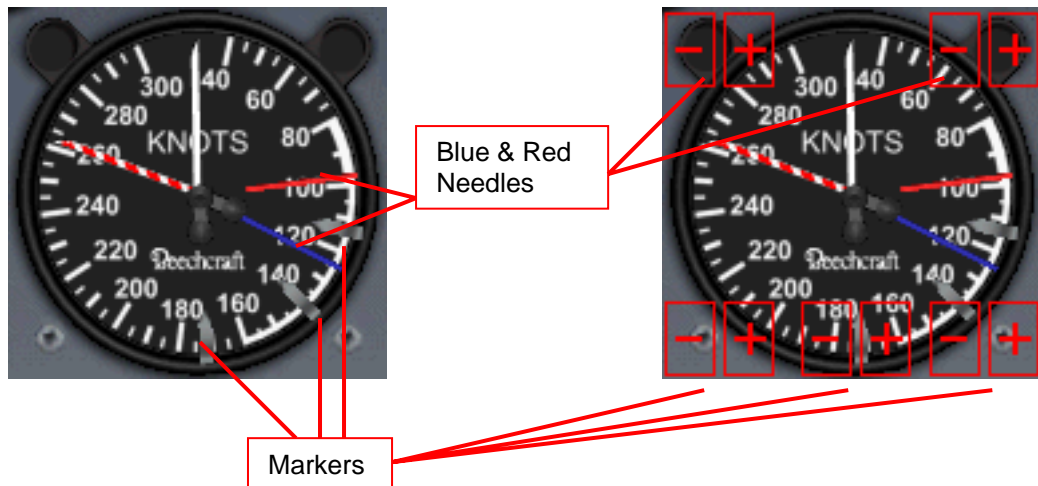
**FOR FSX ONLY:** Clicking on the area indicated bellow toggles between VFR panel and landing panel



## NEW SET OF SWITCHES



## AIRSPEED INDICATOR



Position of red and blue needles and the three markers as well can be settled by means of the clicking areas showed above.

When you first load the panel needles and markers are settled as follows:

- Red needle:  $V_{REF}$  - Landing Approach Speed flaps down; gear down Weight 15.000 lbs, 109 KIAS
- Blue needle:  $V_2$  - Takeoff Safety Speed dry runway, flaps up Standard temperature, 5,000' pressure altitude Weight 15.000 lbs, 117 KIAS
- Left marker: Maximum Flap Placard Speeds Approach 202 KIAS
- Center marker:  $V_{LE}$  - Maximum Gear Operating Speed 184 KIAS
- Right marker: Maximum Flap Placard Speeds Full extension 158 KIAS

## DAVTRON DIGITAL CLOCK M877



### Operation

The SEL button selects what is to be displayed, and the CTL button controls the timers.

Pressing SEL sequentially selects to display Local Time, GMT, Flight Time, Elapsed Time, and back to Local Time. In the bottom segment of the display a dot points to the selected display LT, GMT, FT or ET.



FT starts counting when a valid groundspeed was first greater than 30 knots (typically during takeoff) and it will stop when that speed come down to less than 30 knots. ET starts counting when you click on control button while ET is selected (the red dot is above ET)

When FT is being displaying ((the red dot is above FT) clicking twice the CTL button resets Flight Time, FT, back to zero. One more click will start it again. The CTL button also stops, resets and starts again Elapsed Time when clicked sequentially, if ET is selected.

Flight Time and Elapsed Time counts up to 59 minutes, 59 seconds, and then switches to hours and minutes.

### RMI



YELLOW NEEDLE DRIVEN BY VOR1 OR ADF

GREEN NEEDLE DRIVEN BY VOR2 OR ADF

### RADIO ALTIMETER

LED: off above 2500 ft, yellow between 2500 ft and decision height, amber below DH

Set decision height



Decision height bug

### OUTSIDE AIR TEMPERATURE



TOGGLES  
°C / °F



**VERTICAL SPEED**

SELECTED  
VS



SET VS

ON/OFF

**ALTITUDE ALERTER AND ALTITUDE PRESELECTOR**



The Altitude Selector and Altitude Alerter enables the pilot to preselect altitudes to be used by the autopilot. It also has an alert light that blinks when selected altitud is changed and lights steady between 1000 and 300 ft from selected altitude.

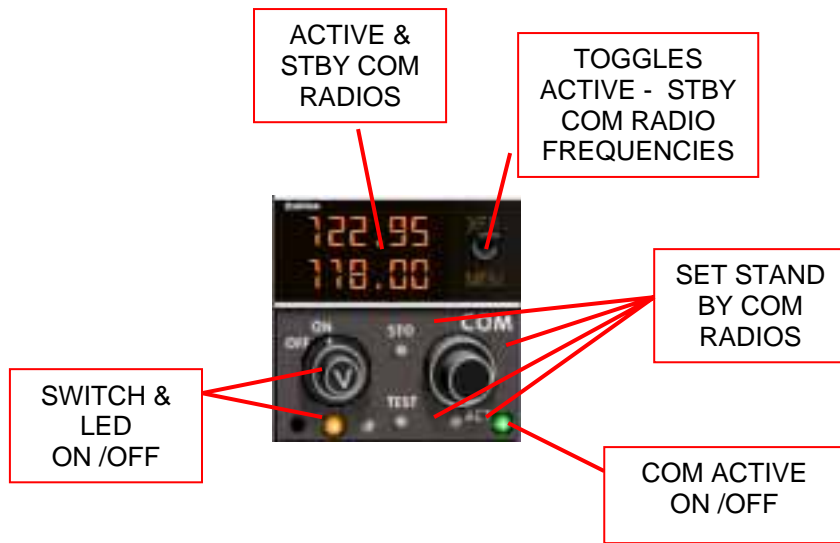
**Clicking areas**



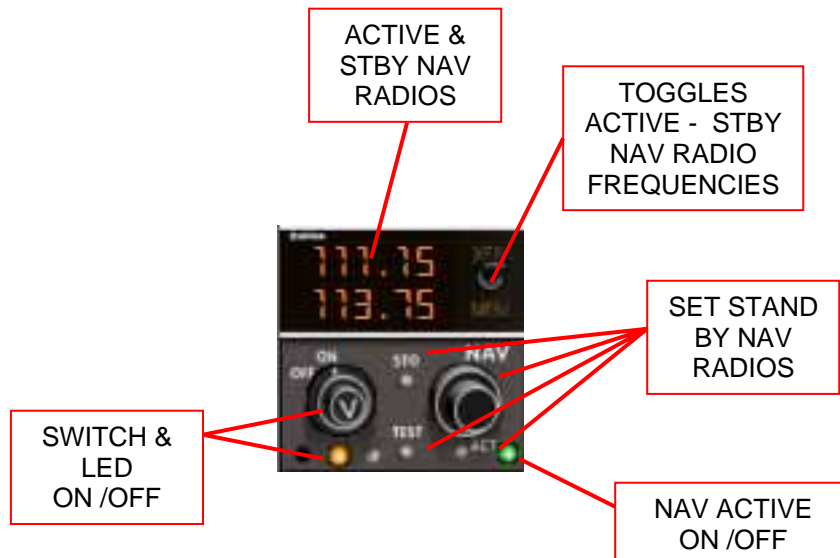
100's

1000's

## COM GAUGE



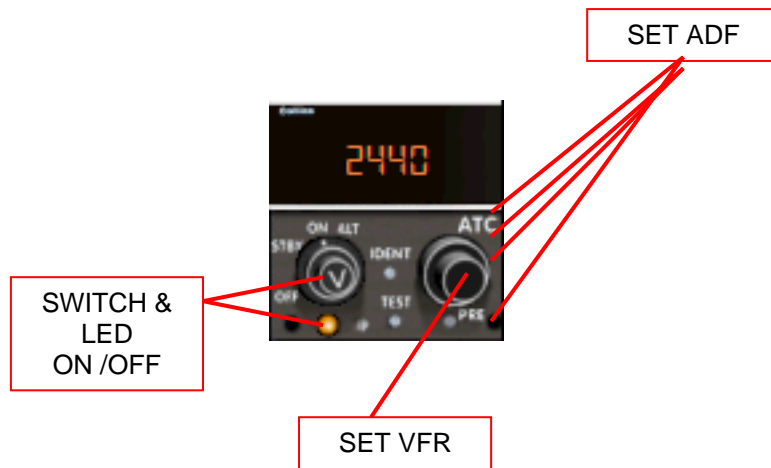
## NAV GAUGE



## ADF GAUGE



## XPNDER GAUGE



## GPS

This gauge is very similar to the default GPS included in FS9 in what concerns to its way of operation. We will talk here about the differences implemented by FriendlyPanels.



The main differences are:

1. Rose movement smoother
2. Improved readability
3. Navaids displayed in map modes are now selectable, allowing you to have a clearer view if you need it.
4. Needles indicator CRS, VOR1, VOR2 and ADF

### Clicking areas

1. Shows / Hide CRS needle
2. Shows / Hide VOR1 needle
3. Shows / Hide VOR2 needle
4. Shows / Hide ADF needle
5. Shows / Hide terrain. The way it looks is controlled by 13.
6. On / Off switch
7. Shows / Hide Intersections
8. Shows / Hide VOR's
10. Shows / Hide NDB's
11. Shows / Hide Airports
12. Shows / Hide airspaces
14. Shows / Hide flight plan route

The rest of the buttons have similar functions than in the default FS9 GPS.

## ELECTRONIC ATTITUDE DIRECTOR INDICATOR

This is a Rockwell Collins type EADI



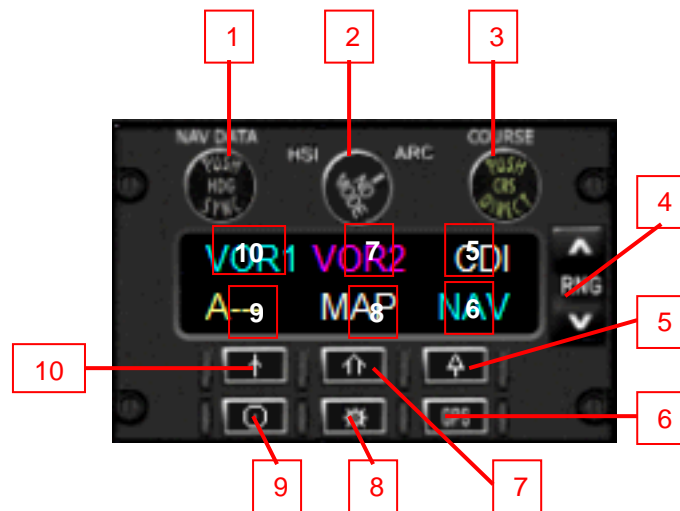
## ELECTRONIC HORIZONTAL SITUATION INDICATOR AND MCP

This is a Rockwell Collins type EHSI. It has four display modes: HSI, ARC both showing MAP or not as selected in MCP.





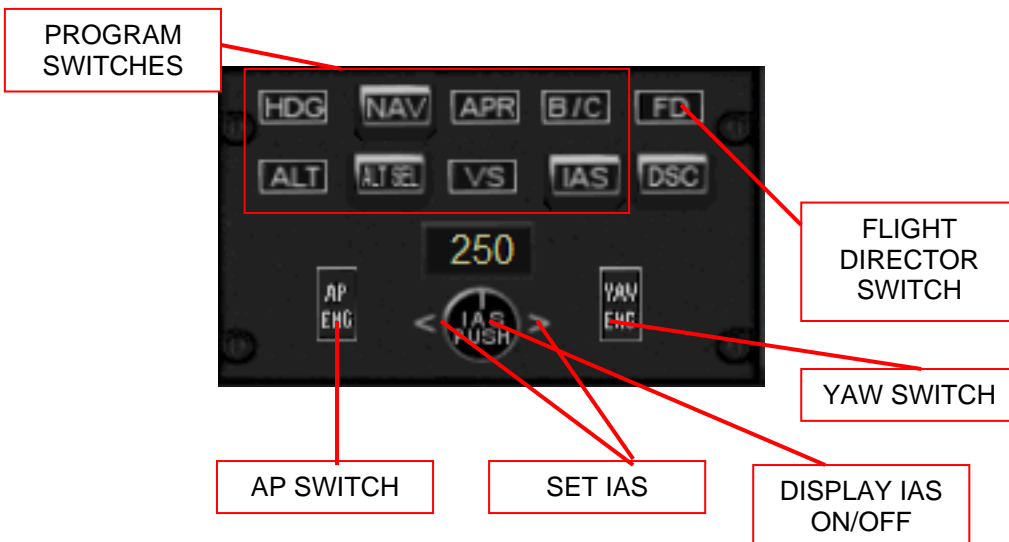
The EHSI display mode is selected by MCP



Clicking areas

1. Click left and right sides to set EHSI heading bug. Clicking on center set bug to current heading.
2. Selects EHSI display mode
3. Click left and right sides to set Course selector. Clicking on center centers course.
4. Zoom in/out when EHSI is in display map mode
5. Shows / Hide CDI.
6. GPS / NAV mode
7. Sets what drives magenta needle: VOR1, VOR2 or ADF
8. Shows / Hide map
9. Sets what to display when EHSI is in map mode: A--- (just airports), AVN- (APTS, VORs and NDBs), AVNI (APTS, VORs, NDBs and INTERSECTIONS)
10. Sets what drives blue needle: VOR1, VOR2 or ADF

**AUTOPILOT**



## PANEL ANNUNCIATOR



TEST  
PUSHED



## 6. Remarks

**THIS PANEL MUST BE LOADED FROM 2D COCKPIT FOR THE FIRST TIME.  
FLIGHTS MUST BE SAVED FROM THIS VIEW AS WELL.**

As you probably know, a plane's Virtual Cockpit is defined when the aircraft model is designed. Therefore, is very difficult to make "good-looking" changes in it editing its panel.cfg file. We have included some of the new gauges in the Baron VC panel, but, unfortunately it's not possible to include all of them, at least you make a complete aircraft model. So, if you don't like the changes, the only thing you have to do is to edit the plane.cfg of the aircraft and replace all sections [Vcockpit0x] with the original ones in the original panel.cfg of the plane. Don't forget make a backup of everything you're going to play with.

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## 7. Technical support

If you have any question, please contact FriendlyPanels at:

[fpanels@friendlypanels.net](mailto:fpanels@friendlypanels.net)

Web page:

[www.friendlypanels.net](http://www.friendlypanels.net)