

*Quick Start Guide*

# **VRInsight's V1000Pit/Pro**

## **for MS-FSX/Mindstar Avionics G1000 Panel**



## 1. Latest Software

Latest software can be downloaded at following link page,  
[http://vrinsight.com/devel\\_shot/](http://vrinsight.com/devel_shot/)

Latest version of

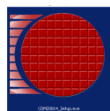
USB-to-Serial Port Driver, <http://www.ftdichip.com/Drivers/VCP.htm>  
“VRiSim”, [http://vrinsight.com/devel\\_shot/VRiSim/Install\\_VRiSim.exe](http://vrinsight.com/devel_shot/VRiSim/Install_VRiSim.exe)  
“V1000Pit”, [http://vrinsight.com/devel\\_shot/VRiSim/Install\\_V1000Pit.exe](http://vrinsight.com/devel_shot/VRiSim/Install_V1000Pit.exe)

## 2. Installation Procedure

### 2.1 Driver Software Installation

Installer of driver software can be found in the provided DVD.

“\VRiSim\Drivers\ CDM20814\_Setup.exe”



Installation is simply done by double-clicking this icon.

### 2.2 “VRiSim” installation

“VRiSim” is application software managing VRInsight’s flight simulation hardware panels.

- (1) Download Latest version of “VRiSim”

“VRiSim”, [http://vrinsight.com/devel\\_shot/VRiSim/Install\\_VRiSim.exe](http://vrinsight.com/devel_shot/VRiSim/Install_VRiSim.exe)

- (2) Run downloaded executable installer.

### 2.3 “V1000Pit/Pro” Module installation

- (1) Download latest version of “V1000Pit/Pro” panel specific module

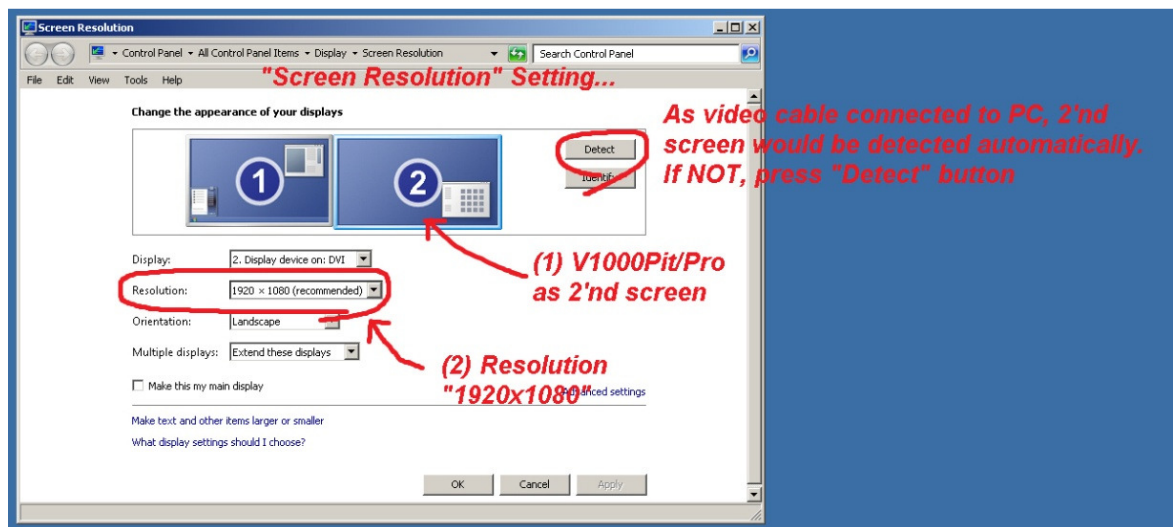
“V1000Pit”, [http://vrinsight.com/devel\\_shot/VRiSim/Install\\_V1000Pit.exe](http://vrinsight.com/devel_shot/VRiSim/Install_V1000Pit.exe)

- (2) Run downloaded installer.

### 2.4 Video connection and Screen Set-up

Connect V1000Pit/Pro video cable to PC’s additional video port. It will be recognized as 2<sup>nd</sup> screen automatically. Screen resolution should be **1920x1080 (V1000Pro)** or **1680x1050(V1000Pit)**. If 2<sup>nd</sup> screen is not displayed or the resolution is different, press “**Detect**” in the screen resolution window

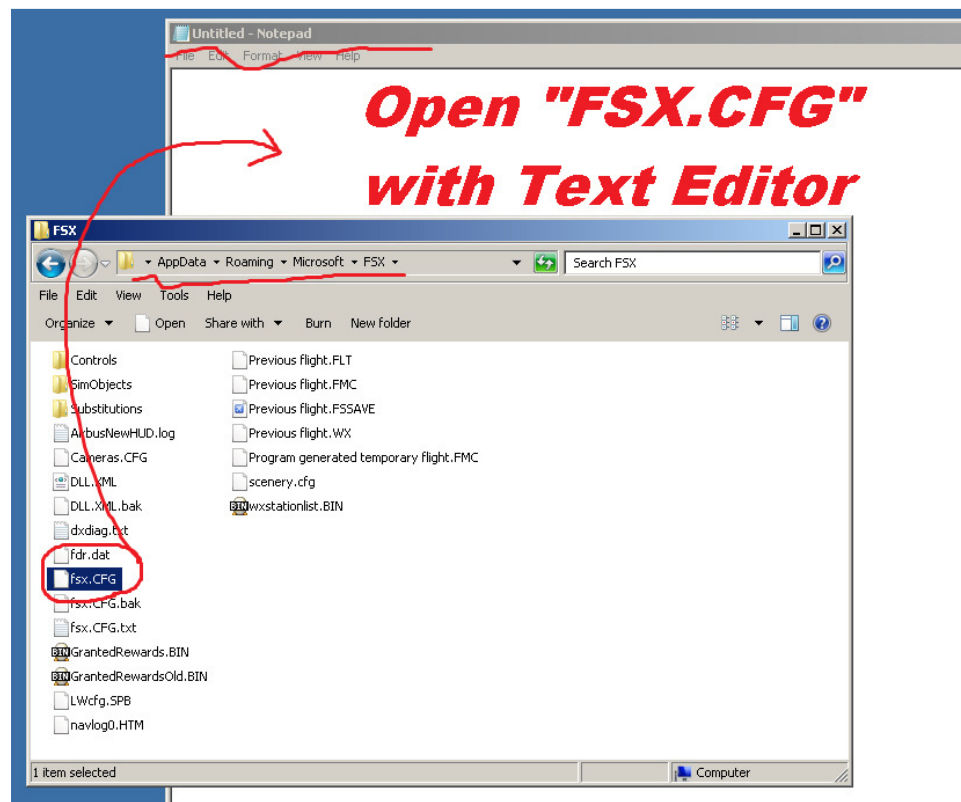
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V1000Pit/Pro's screen resolution of 1920x1080 (or 1680x1050) is non standard for FSX default. It must be configured by manually.

- (1) Open "FSX.cfg" file with text editor, i.e. "Notepad". This FSX.cfg file can be found at following folder,

"C:\Users\\_User\_Name\_\AppData\Roaming\Microsoft\FSX"



- (2) Find [DISPLAY.Device.Your\_Video\_Adaptor.1] section in the “FSX.cfg”. First main monitor is denoted as “.0”. V1000Pit/Pro’s screen is second monitor. So, it is denoted as “.1”.

- (3) Edit “Mode=” item as follows,

*[DISPLAY.Device.NVIDIA GeForce GTX 260.1]  
Mode=1920x1080x32*

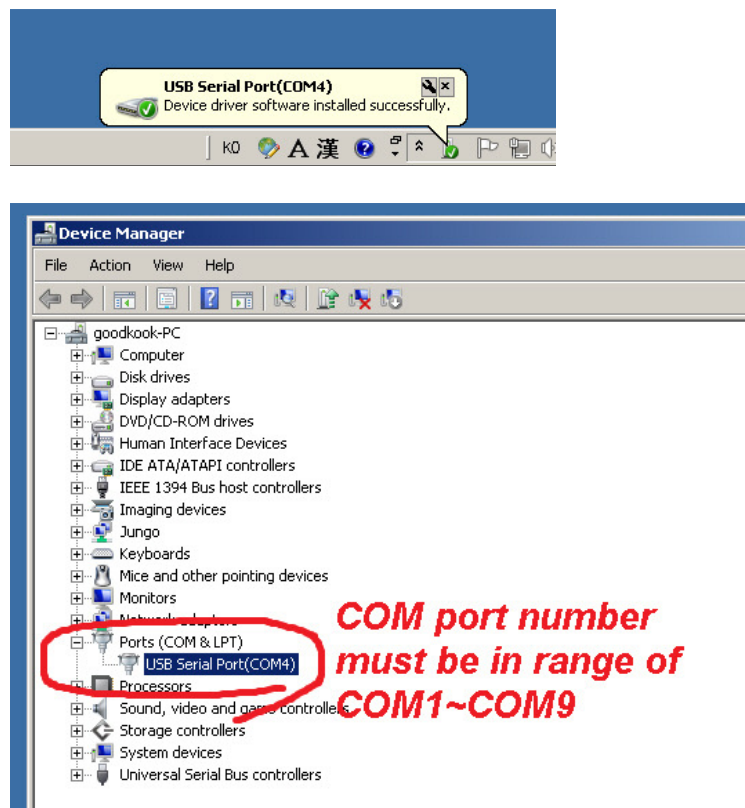
Or

*Mode=1680x1050x32*

It is screen resolution and color-depth.

## 2.5 USB connection

Connect V1000Pit/Pro USB cable to PC’s available USB port. It will be recognized as COM port, if driver software installation was successful..



## 2.6 Installation Check

Verifying and testing procedure for software and V1000Pit/Pro hardware installation as follows;

- (1) Connect V1000Pit/Pro’s USB cable to the PC’s USB port.
- (2) Go to the folder where “VRiSim” is installed. Normally, it is program files folder;

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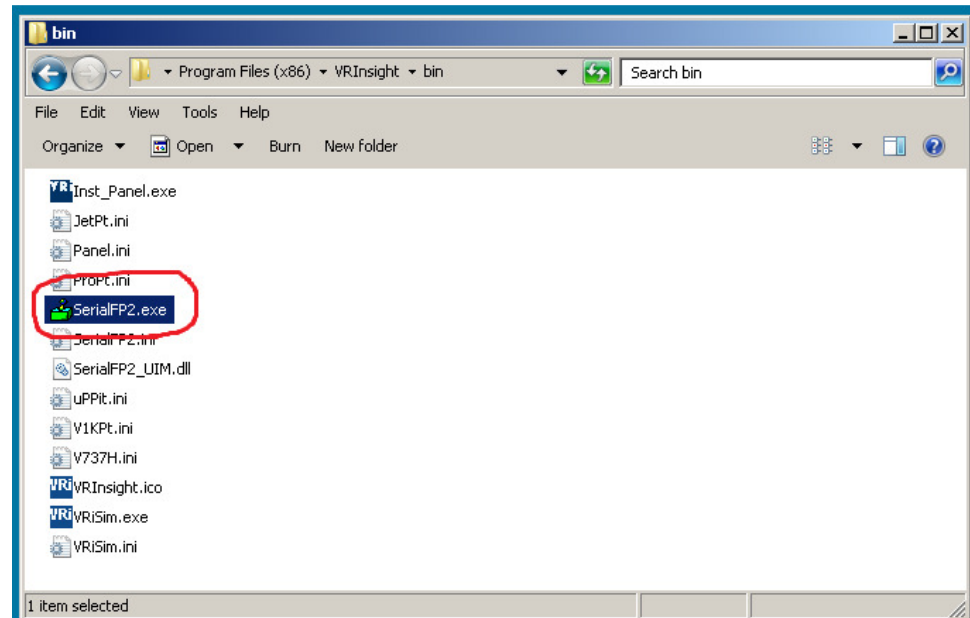
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"C:\Program Files\VRinsight" – for 32-bit OS

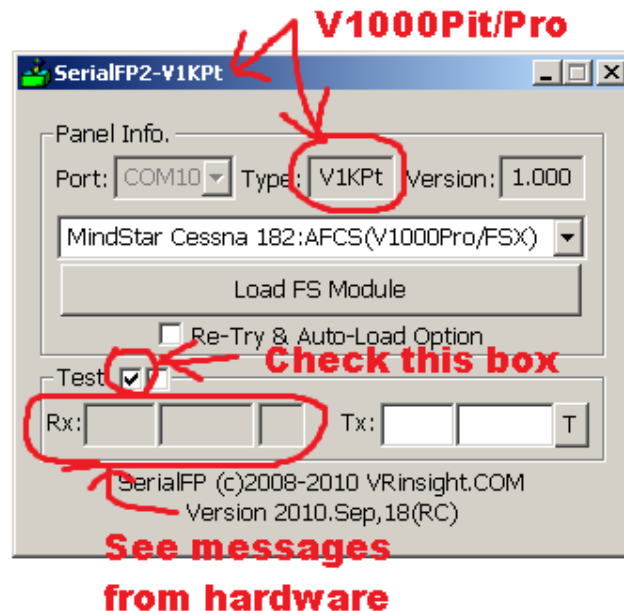
Or

"C:\Program Files (x86)\VRinsight" – for 64-bit OS

- (3) Open sub- folder named "bin" and find software icon, "SerialFP2".



- (4) Run "SerialFP2". Then, V1000Pit/Pro must be detected and connected to COM port. "V1KPt" in type box and title bar must be shown for V1000Pit/Pro hardware.



If it's "N/A" in "Type:" box, reinstall "Driver software".

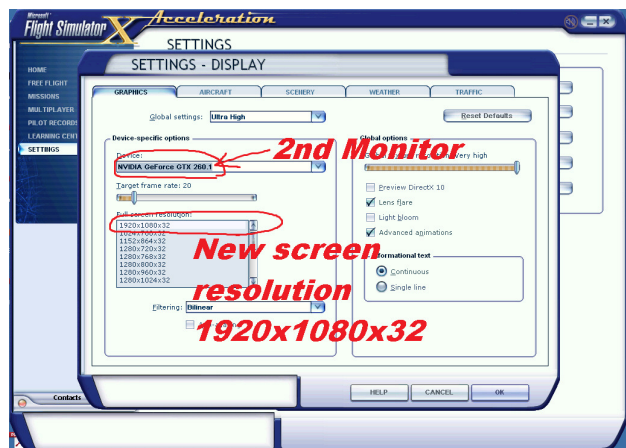
- (5) Check "Test" box in the "SerialFP2" software to enable test mode.
- (6) As pressing buttons or rotating knobs on V1000Pit/Pro unit, messages must be seen in the "RX:" box.
- (7) Close "SerialFP2" software. Remember that use of "SerialFP2" is just for test purpose. Use "VRiSim" when normal operation.

### 3. Do it work

#### 3.1 Run MS-FSX

- (1) Check display setting

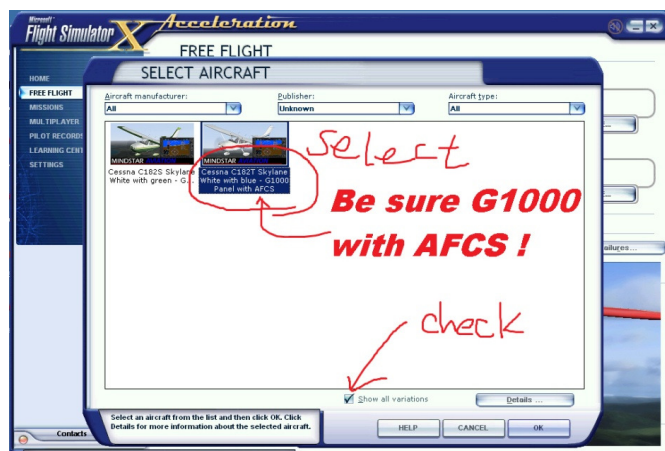
As we modify "FSX.cfg", V1000Pit/Pro's screen resolution is accepted to FSX display setting option. Open "GRAPHICS" tab in the "Setting-DISPLAY" page of MS-FSX. Also, check the 2<sup>nd</sup> screen (V1000Pit/Pro) is configured correctly.



- (2) Aircraft selection for MSFSX

Select Mindstar's aircraft appropriately,

- "Mindstar Cessna 182T G1000 Panel with AFCS" for V1000Pro.
- "Mindstar Cessna 182T G1000 Panel" for V1000Pit

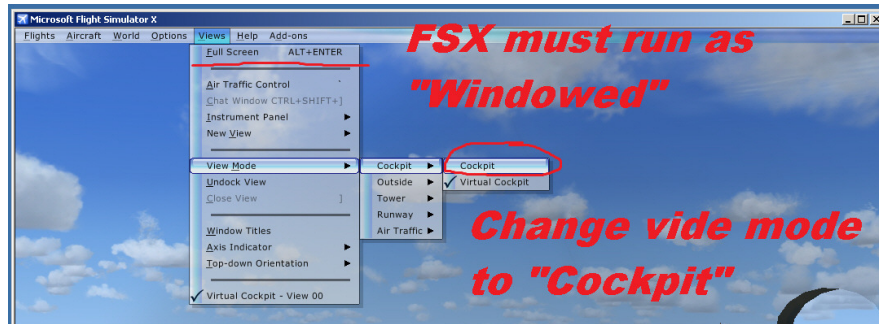




### 3.2 Panel window set-up

After aircraft and other selection, i.e. airport and time, press “Fly Now!” button in the FSX. Next step is preparing panel windows which will be displayed on the **V1000Pit/Pro** screen; **PFD**, **MFD** and **Scenery**.

- (1) Change view mode to “Cockpit”.



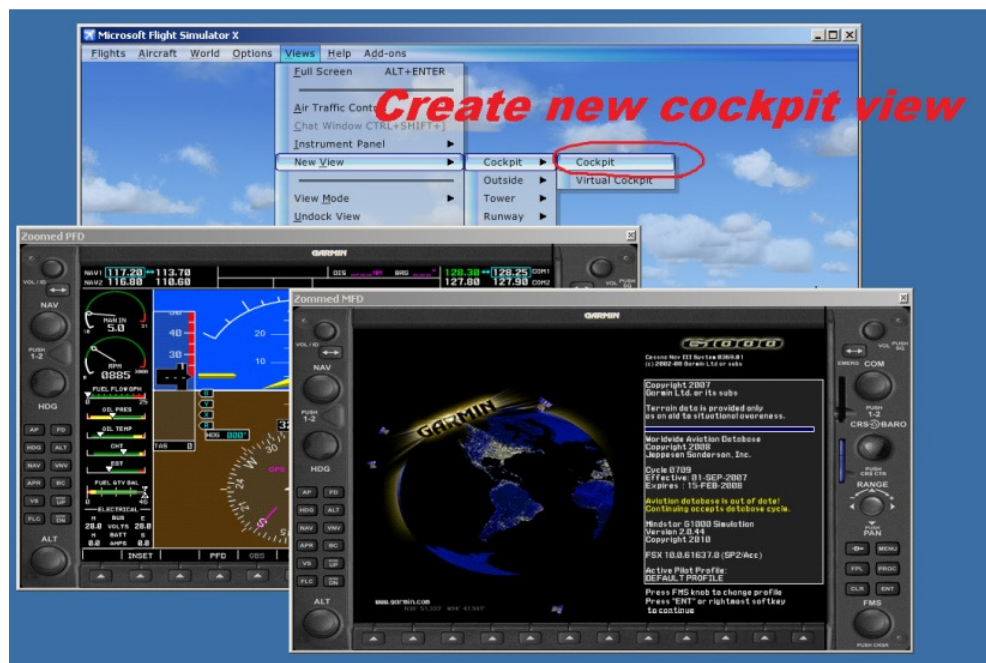
- (2) Open “Zoomed PFD” instrument panel and Undock it.



- (3) Open “Zommed MFD” instrument panel and Undock.



- (4) Open new cockpit view and Undock it.







- (5) We have 3 undocked window; “Zoomed PFD”, “Zommed MFD” and “Cockpit View 01”



**Now ready to fly....**

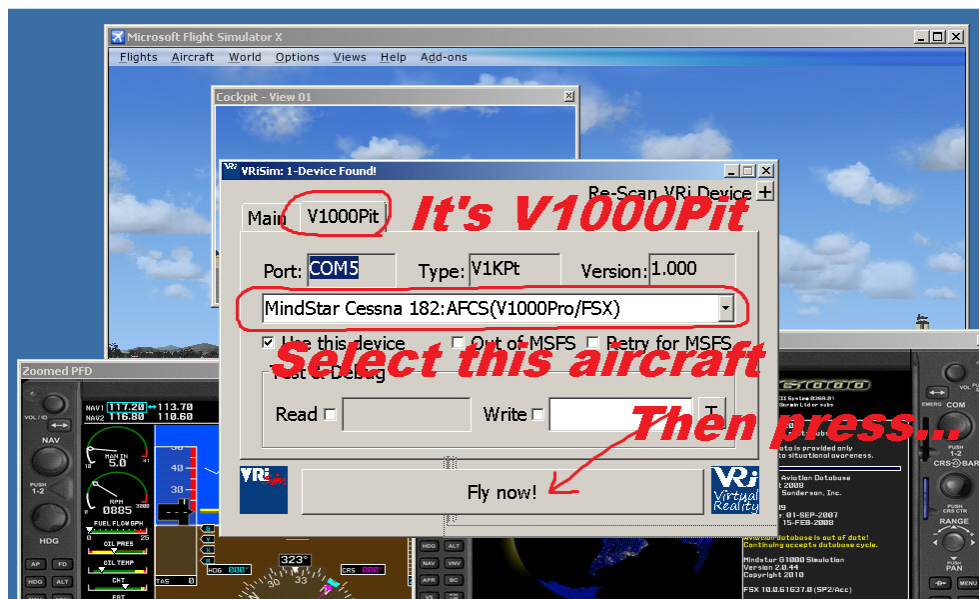
### 3.3 Run “VRiSim”

Run “VRiSim”. VRi’s hardware of “V1000Pit/Pro” will be detected automatically and identified as “V1000Pit”. If “V1000Pit” is not found, consider to reinstall driver software installation.

Next, select aircraft type in the “VRiSim”. There’re two selection for Mindstar’s G1000 panel.

- MindStar Cessna 182(V1000Pit/FSX)
- MindStar Cessna 182:AFCS(V1000Pro/FSX)

Finally, press “Fly Now!” button.



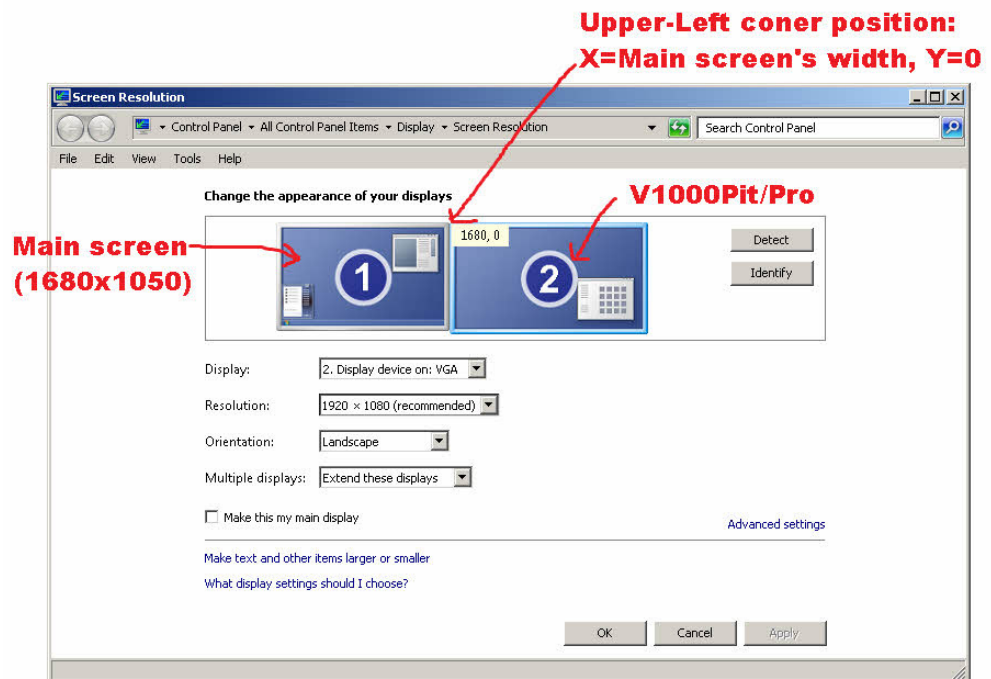
Then, 3-undocked windows; “Zoomed PFD”, “Zommed MFD” and “Cockpit - View 01” are moved and displayed in the V1000Pit/Pro’s screen respectively,



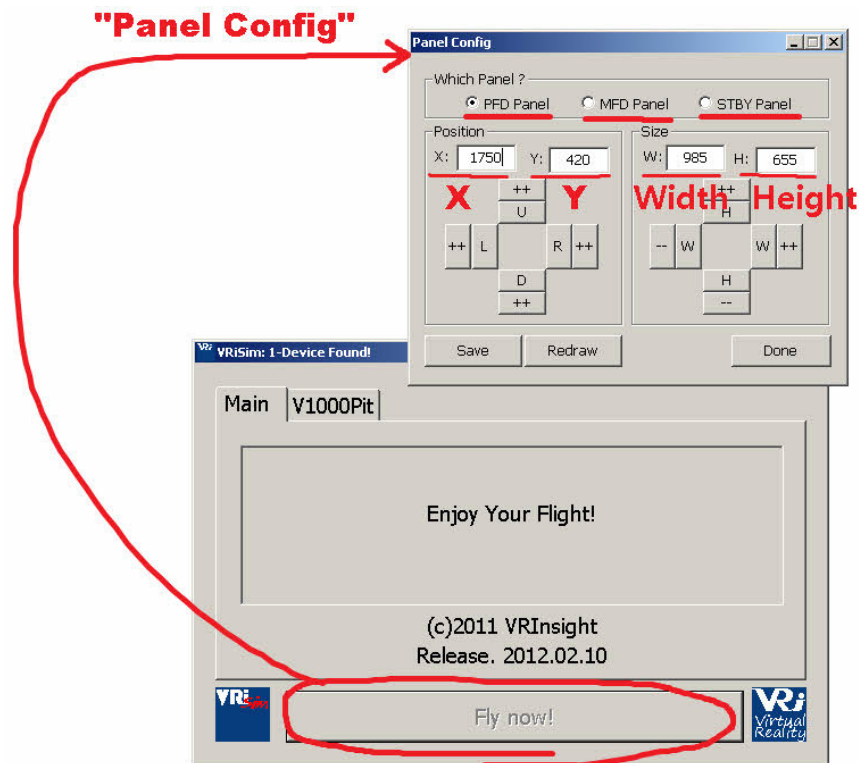
Align windows to V1000Pit/Pro panel's screen:

When three windows are not aligned to your screen configuration, change window's position (X and Y) and size (Width and Height) in the configuration window.

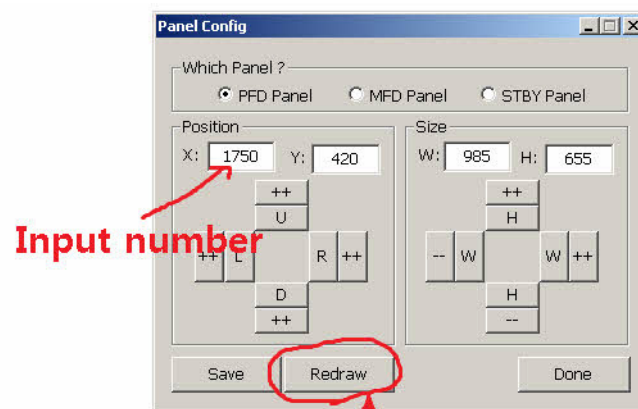
- (1) Before begin to align undocked windows, knowing your screen configuration(Main and 2<sup>nd</sup> extended) is important. Following picture is an example of screen configuration. 2<sup>nd</sup> screen of V1000Pit/Pro is placed on the right side of main screen. V1000Pit/Pro screen's upper-left corner position is (1680, 0). X-position is same to main screen's width. Y-position must be 0.



- (2) "Panel Config" is launched automatically if "Fly Now!" button of VRiSim is executed successfully (button face is grayed).



- (3) By giving number to X, Y, W, and H, 3-undocked panel window(PFD panel, MFD panel and STBY panel) position and size.



**Then "Redraw" for  
new window position**

Recommended numbers of X, Y, W, H;

VRi Hardware	Panel	X*	Y	W	H
V1000Pit FSX C172	PFD Panel	w+0	465	875	585
	MFD Panel	w+815	465	875	585
	STBY Panel	w+0	-20	1680	495
V1000Pit Mindstar C182T	PFD Panel	w+15	475	870	570
	MFD Panel	w+830	475	870	570
	STBY Panel	w+0	-20	1680	490

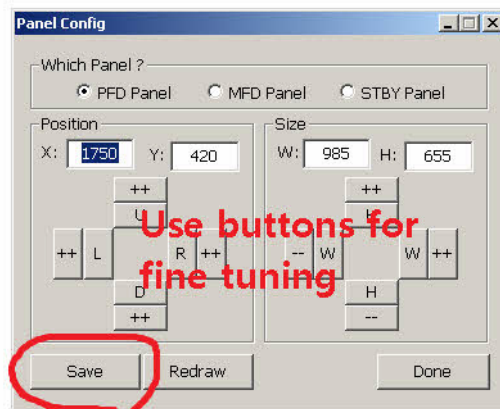
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VRi Hardware	Panel	X*	Y	W	H
V1000Pro FSX C172	PFD Panel	w+70	420	985	655
	MFD Panel	w+970	420	985	655
	STBY Panel	w+0	-20	1920	450
V1000Pro Mindstar C182T	PFD Panel	w+85	415	985	650
	MFD Panel	w+985	415	985	650
	STBY Panel	w+0	-20	1680	450

\* w: width of main screen

- (4) Use buttons for fine tuning window positions. When window's position is acceptable, press "Save" button for next flight.



Save for next flight