THE JAY by REDBIRD

JAY VELOCITY EDITION BY REDBIRD

INSTRUCTION MANUAL

Manufactured in the United States

www.redbirdflightsimulations.com

DISCLAIMER

The JAY is the first all-in-one desktop flight experience device.

The JAY VELOCITY is a robust upgrade of the original JAY, perfect for classrooms and high-volume environments.

The JAY / JAY VELOCITY is not in any way meant as an certified training tool, and is for personal enjoyment only.

Information in this manual is subject to change without notice and does not represent a commitment on the part of the licensor.

April 2018 Rev. 2.0

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GETTING STARTED

Your JAY/JAY VELOCITY is designed for easy setup and operation so that you can begin flying immediately.

Retain all original packaging and shipping materials.

Any unauthorized software on your JAY / JAY VELOCITY is prohibited and will void your warranty.

Getting to Know Your JAY / JAY VELOCITY

What's in the boxes:

Control Panel

Monitor

Keyboard

Thumbscrews

*Sound Cable

*(*Optional - HDMI monitor includes built-in speakers)*

Video (DVI/HDMI) Cable

Power Cables (2)

The JAY / JAY VELOCITY Specifications:

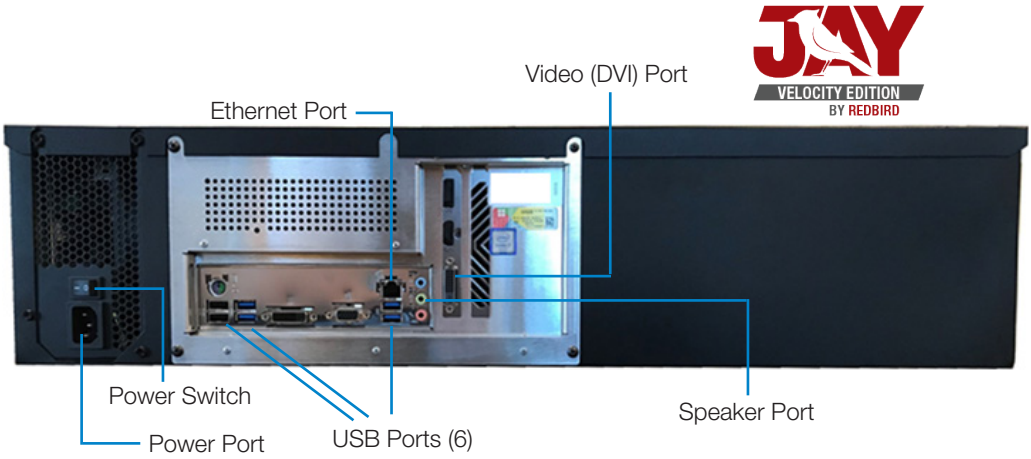
ITEM	SPECS
JAY / JAY VELOCITY Assembled	**Dimensions:** 26.5” wide, x 24” deep, 20” tall **Weight:** ~45 lbs **Power:** domestic-120V, international-220V
Lower Instrument Panel	**Dimensions:** 26.5” wide, x 24” deep , x 6.375” tall **Weight:** ~23 lbs **Other:** (4) thumbscrews, (1) USB cable
Monitor	**Dimensions:** 25.5” wide, x 8” deep, x 16” tall **Weight:** 20 lbs **Other:** (2) power cable, (1) video cable, (1) USB cable, (4) loose thumbscrews
Keyboard	**Dimensions:** 11.5” wide X 9” tall X 1.25” deep **Other:** Compact Touch pad with USB cable

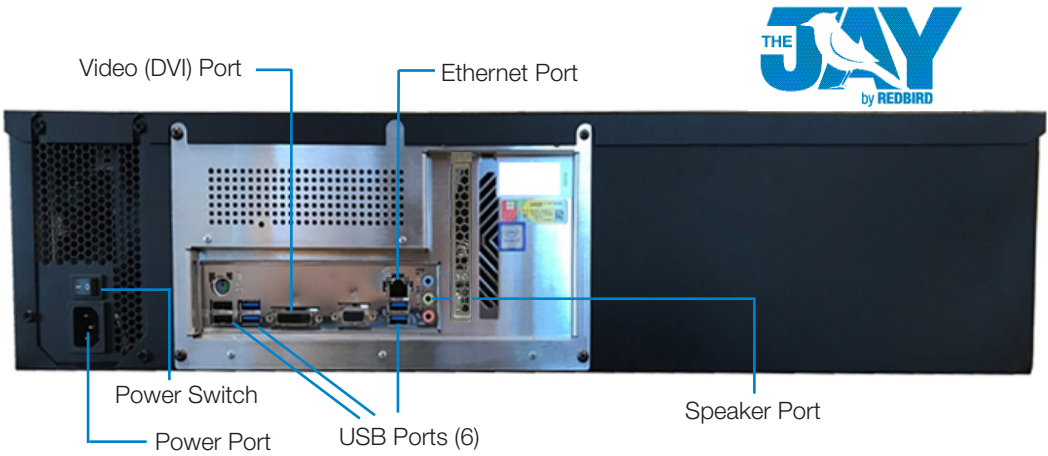
The JAY VELOCITY is an upgraded version of the JAY.

The JAY VELOCITY includes:

- Faster internal components, such as an improved motherboard, dedicated video card, and upgraded central processing unit
- Reinforced, heavy duty flight controls able to withstand a high levels of usage

What's on the back of your JAY / JAY VELOCITY:





2

SETTING UP YOUR JAY
AND
JAY VELOCITY

This chapter will guide you through the JAY / JAY VELOCITY setup.

Preflight Checklist

USE THE FOLLOWING ITEMS TO SETUP YOUR JAY / JAY VELOCITY

Control Panel with (1) power cable

Monitor with (1) power cable, (1) video cable, (1) sound cable, (4) loose thumbscrews

Keyboard

THINGS TO KNOW PRIOR TO INSTALLATION

No tools are required for installation. The assembly is performed by hand-tightening only. The use of tools may lead to damage.

Lift all items from both sides using correct lifting techniques.

Seek assistance when lifting larger items.

Retain all original packaging and shipping materials.

Any unauthorized software on your JAY / JAY VELOCITY is prohibited and will void your warranty.

STEP 1: Remove the Monitor and Accessory Boxes from the Packaging

- Place the Monitor, screen side down, onto a soft surface to avoid scratching the monitor.
- Remove the cables and other accessories from the accessory boxes.

STEP 2: Connect the Video, Sound and Power Cables to the Monitor

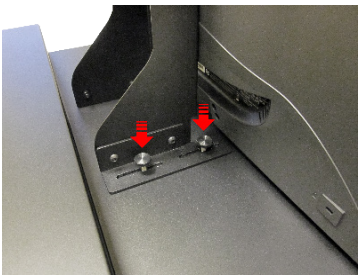
- Connect the HDMI end of the Video Cable to the “HDMI 1” Video Connection on the back of the Monitor.
- If included, connect the OPTIONAL Sound Cable to the GREEN plug on the back of the Monitor.
- Connect a Power Cable to the back of the Monitor.

STEP 3: Remove the Control Panel

- Remove the Control Panel from the packaging and place it on a table.
- Remove the four (4) thumbscrews from the top of the Control Panel.

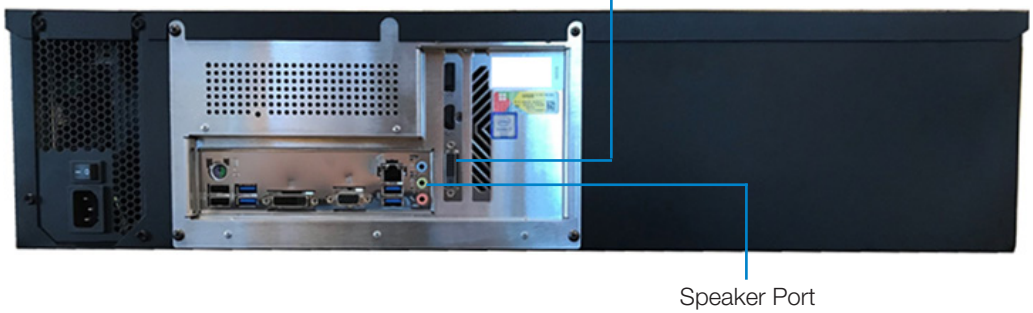
STEP 4: Connect the Monitor

- Secure the Monitor in place on the Control Panel using the four (4) thumbscrews.
  Make sure the cables are clear of the monitor and monitor brace.



STEP 5: Connect the Video and Sound Cables

- Connect the Video Cable from the back of the monitor to the Control Panel. Be certain to place it as pictured below.
- **IMPORTANT: THE VIDEO PORT USED BY THE JAY VELOCITY IS IN A DIFFERENT LOCATION THAN ON THE JAY - REFER TO THE IMAGES BELOW TO ENSURE THAT YOU ARE CONNECTING YOUR VIDEO CABLE TO THE CORRECT VIDEO PORT FOR YOUR SIMULATOR VERSION.**
- If included, connect the OPTIONAL Sound Cable to the GREEN jack on the back of the Control Panel (If external speakers are not included, sound will play through the monitor's speakers via the HDMI cable).



Secondary monitor not supported.

STEP 6: Connect the Keyboard

- Plug the USB Cable on the Keyboard into any USB port on the back of the Control Panel.

USB Ports (6)

USB Ports (6)

STEP 7: Connect the Power Cables

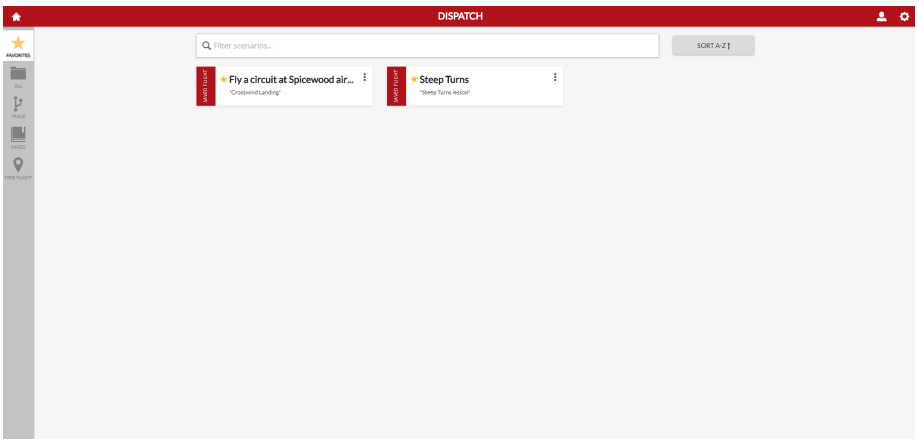
- Plug a Power Cable into the Power Cable Connector on the back of the Control Panel. Plug the other end into a standard wall outlet. (110V - 220V)
- Plug the other end of the Monitor's Power Cable (from Step 2) into a standard wall outlet. (110V - 220V)

STEP 8: Start Up the JAY / JAY VELOCITY

- On the back of the Computer, ensure the power switch is turned on.

- Push the power button located on the front of the Computer.

- The JAY / JAY VELOCITY will turn on and the Navigator Free Flight Menu will appear on the Monitor.



STEP 9: Optional Setup and Equipment

Internet Setup

To access the Internet for The JAY / JAY VELOCITY software updates and downloads:

- Connect one end of an Ethernet cable (not included) to the Ethernet port on the back of your JAY / JAY VELOCITY.
- Connect the other end to your network outlet. Redbird will automatically notify you if there are any updates after you've powered on the JAY / JAY VELOCITY.

Ethernet Port

Wireless Internet Set-up

If you purchased the optional wireless dongle for your JAY / JAY VELOCITY.

- Plug the wireless dongle into the back of the JAY / JAY VELOCITY in an open USB port.
- The wireless dongle will retrieve your network and require you to enter your network password.

Optional Rudder Pedal Setup

The JAY / JAY VELOCITY is compatible with Redbird Alloy Rudder Pedals, Saitek Pro Flight Rudder Pedals and CH Pro Pedals.

- Plug the USB pedals into any available USB port located on the back of the Computer.

Install the rudder pedals prior to powering on the JAY / JAY VELOCITY. The rudder pedals are optional and not required to fly the JAY.

Optional Cygnus Setup

Cygnus allows you to use any aviation or navigation apps running on your iPad, iPhone, or iPod Touch while connected to any one of a wide range of flight simulation software products. When using Cygnus during a simulation session your iPad and the aviation app it is running will believe that it is located wherever the aircraft in the active simulation is located.

- There is no software to install, simply plug the RED Cygnus cable into any open USB port on your JAY / JAY VELOCITY and connect the other end to your iPad, iPhone or iPod Touch.
- Start an active simulation.
- Verify that Cygnus has a valid connection to your JAY / JAY VELOCITY and your Cygnus cable.

3

USING YOUR JAY
AND
JAY VELOCITY

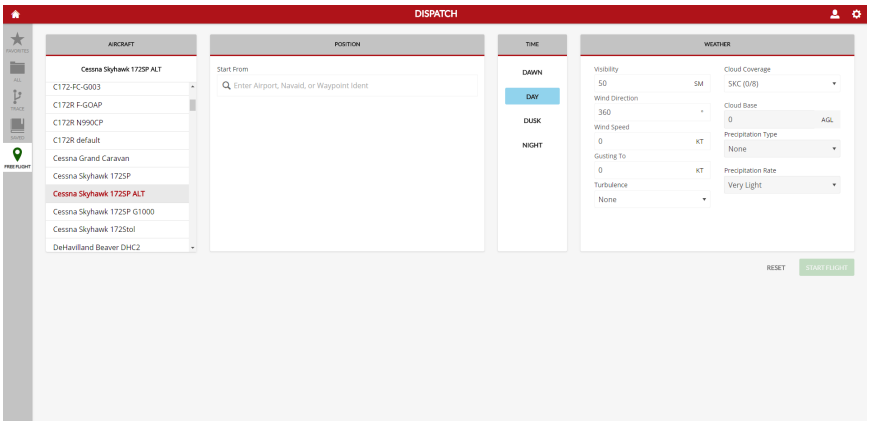
The JAY / JAY VELOCITY has many features allowing you to fly anywhere in the world, day or night in a variety of weather conditions.

Start Up

- On the back of the computer, ensure the power switch is turned on.

- Push the power button located on the front of the Computer.

The JAY / JAY VELOCITY will start and the NAVIGATOR FREE FLIGHT screen will
appear.



STARTING A FLIGHT ON THE JAY/JAY VELOCITY

With the Redbird JAY / JAY VELOCITY there are several ways to begin a flight:

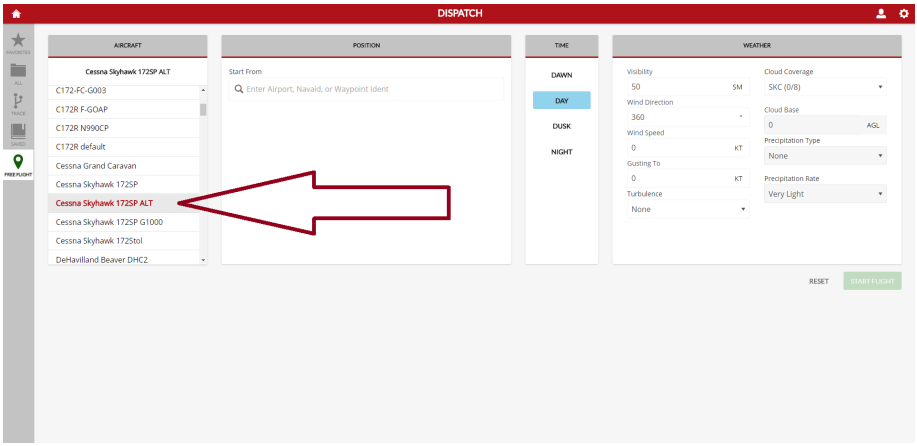
1. FREE FLIGHT
2. SAVED FLIGHT
3. DOWNLOADED FLIGHT SCENARIO

First, let's start a FREE FLIGHT.

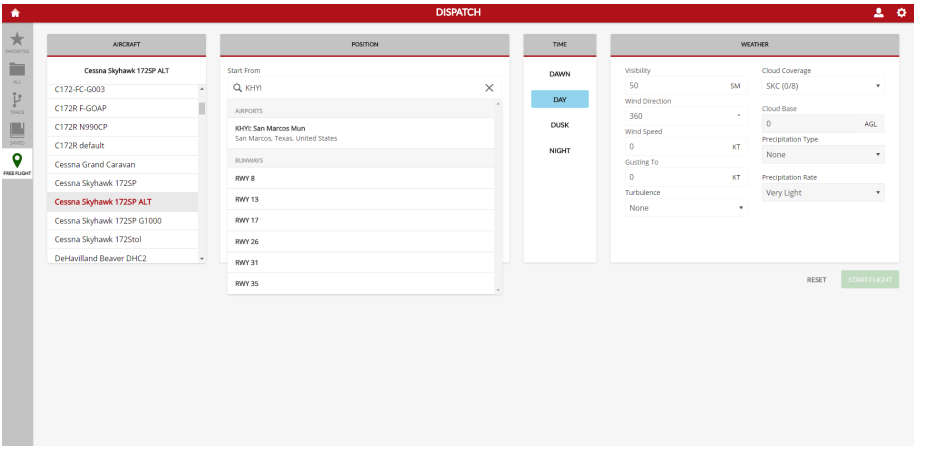
You can start a **FREE FLIGHT ON THE GROUND** at any airport, or in the air at any location on the planet.

We'll begin by configuring and starting a FREE FLIGHT ON THE GROUND.

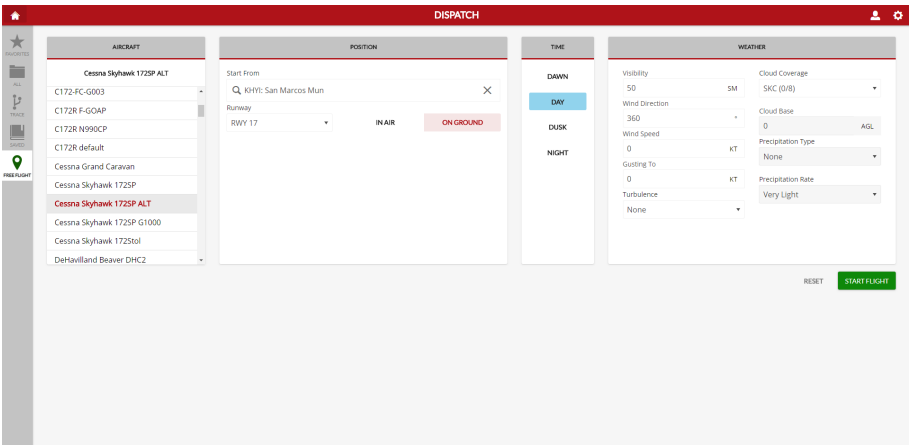
STEP 1: Select an airplane - This menu lets you choose the airplane that will be simulated from a pre-determined list. In this example, we have selected a Cessna 172 Skyhawk.



STEP 2: Type the ICAO code for the desired airport into the START FROM field. In this example, we'll use KHYI which is San Marcos Regional Airport in San Marcos, Texas, USA. Select a runway from which to take off.



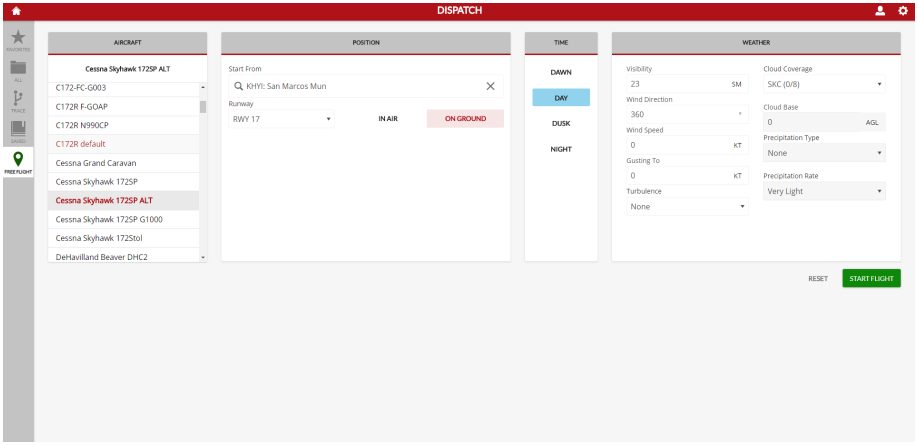
In this case, we've selected Runway 17



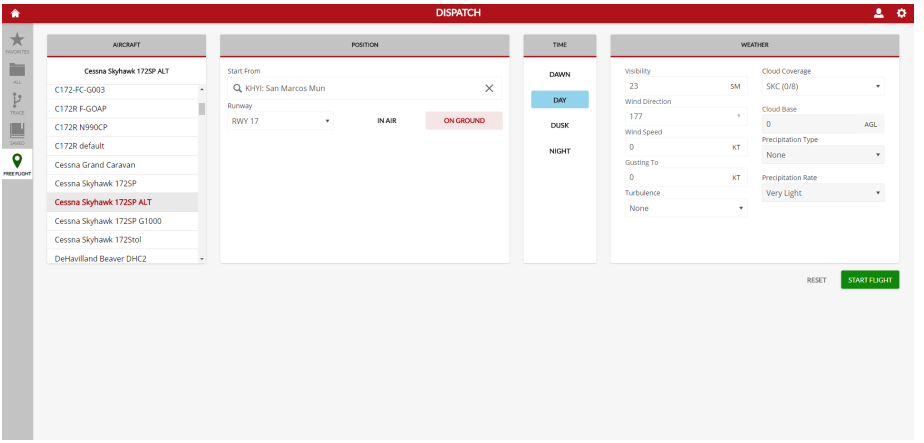
STEP 3: Under TIME select the time of day during which you would like your flight to occur.

STEP 4: Under WEATHER, default selections are already present. If you leave these settings unchanged the weather for your flight will be “perfect” (no wind, no clouds, no precipitation, 50 miles visibility).

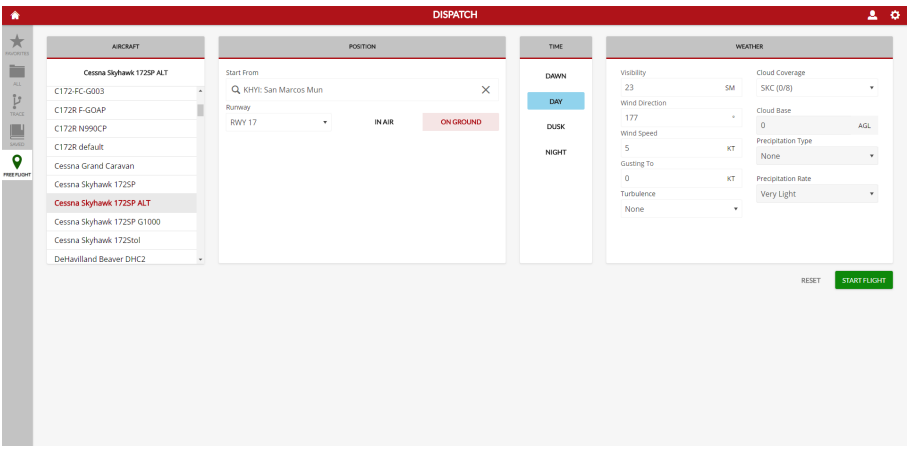
For this example, let’s change the weather settings. Here, the VISIBILITY has been changed to 23 statute miles. The number can be changed using the up/down arrows, or by clicking on the visibility field and typing in the desired value.



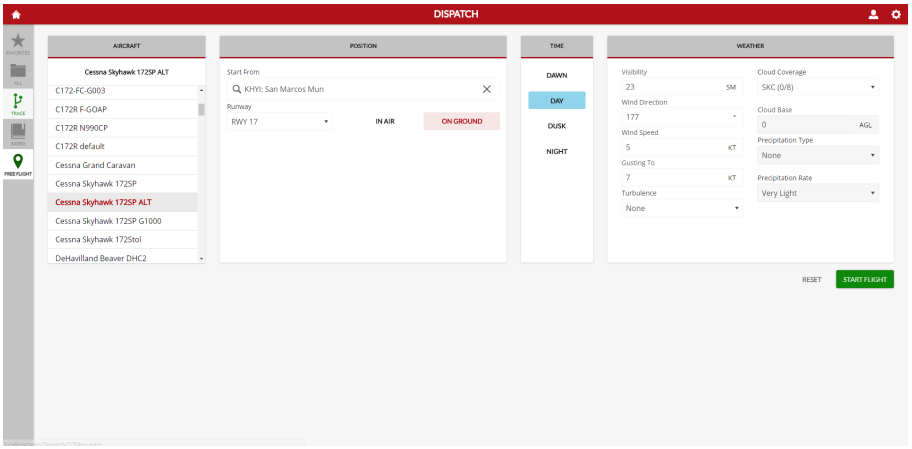
Here we've changed the WIND DIRECTION to 177°. Note that wind direction always indicates the direction the wind is blowing from. In this case, the wind is blowing from 177°, or almost directly out of the South.



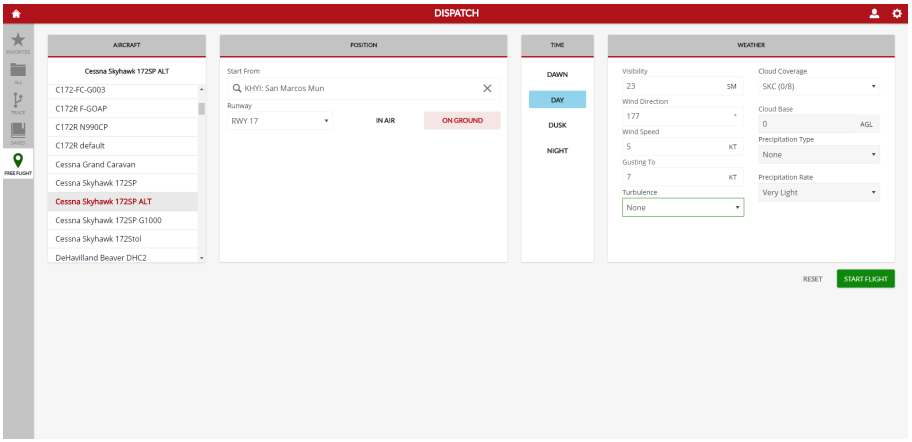
Now, we'll set the WIND SPEED to 5 knots.



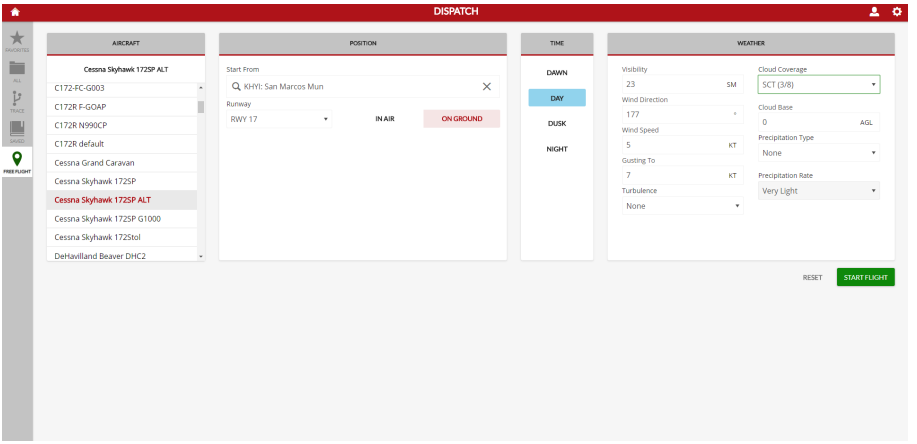
To add gusty wind conditions, we'll set the wind GUSTING TO value to 7 knots. Note that if the GUSTING TO value is equal to or less than the WIND SPEED, no wind gusts will be present during your flight.



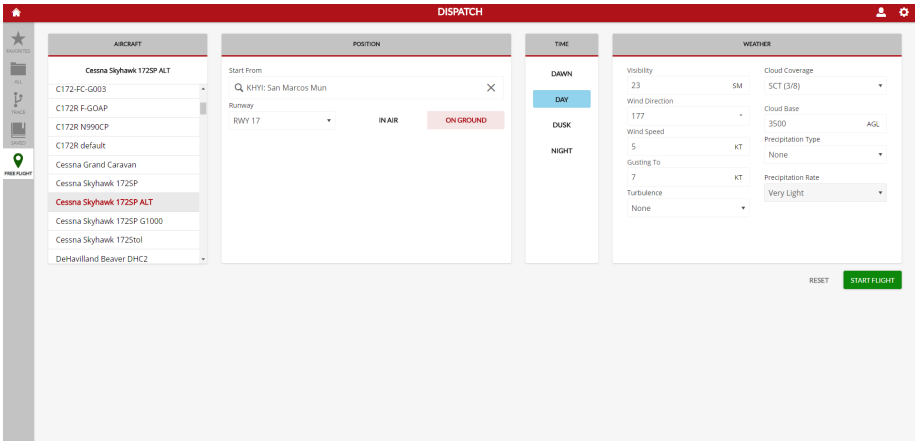
Set TURBULENCE using the drop down menu. Available TURBULENCE settings are NONE, LIGHT, MODERATE, HEAVY, and SEVERE.



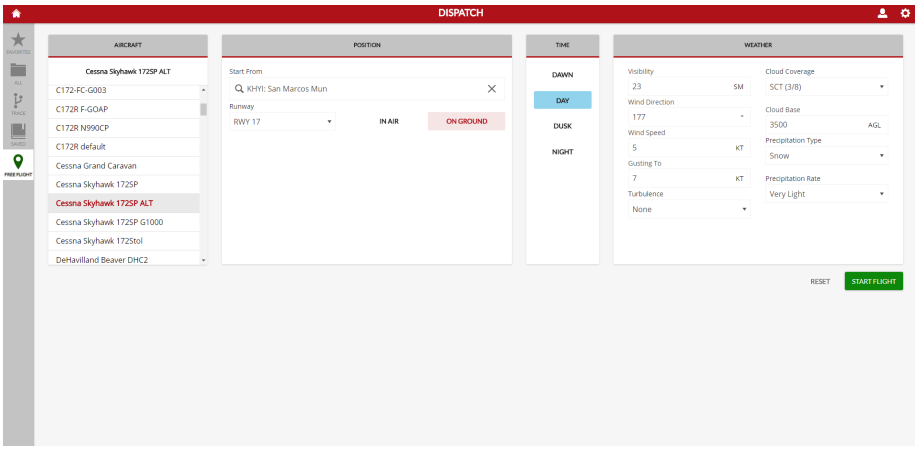
CLOUD COVERAGE is expressed in eighths, ranging from 0/8 of the sky obscured by clouds (no clouds at all), to 8/8 of the sky obscured by clouds (total overcast). Here we'll select 3/8 CLOUD COVERAGE, which will give us scattered clouds.



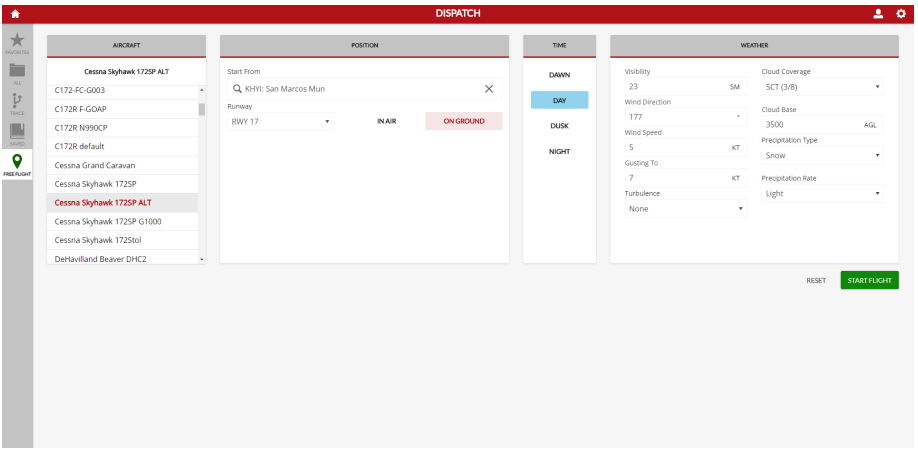
CLOUD BASE defines the altitude above which the cloud coverage begins (where the bottoms of the clouds are). The CLOUD BASE in this example is set to 3,500 feet AGL (Above Ground Level). So, since the airport elevation at San Marcos Regional Airport is 595 feet MSL (above Mean Sea Level) and we've set the CLOUD BASE to 3,500 feet AGL, the bottoms of the clouds will be at 4,095 feet MSL. Since the altimeter in your airplane indicates your airplane's altitude above mean sea level, you can expect to encounter clouds at and above 4,095 feet according to your altimeter.



Let's set PRECIPITATION TYPE to SNOW. You could also choose RAIN, or NONE.



Under PRECIPITATION RATE we're setting LIGHT. The available choices are VERY LIGHT, LIGHT, MODERATE, HEAVY, and VERY HEAVY. Note that if you have selected NONE for PRECIPITATION TYPE, the PRECIPITATION RATE selection doesn't matter since there is no precipitation.

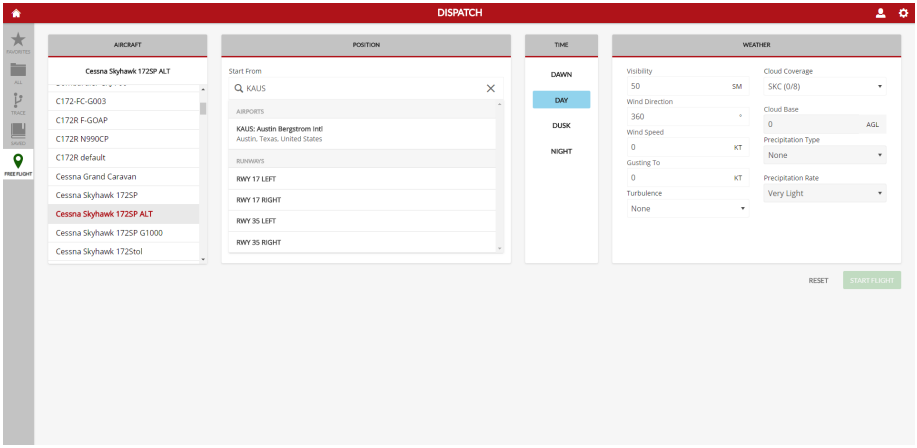


You are now ready to click START FLIGHT. Once the simulation has loaded, you will appear at the airport and on the runway you selected in a paused state. Press the F12 key to unpause and begin your flight.

Now, let's see how to start a **FREE FLIGHT IN THE AIR.**

Select FREE FLIGHT on the far left side of the screen.

STEP 1: Select an airplane - This menu lets you choose the airplane that will be simulated from a pre-determined list. In this example, we have selected a Cessna 172 Skyhawk.

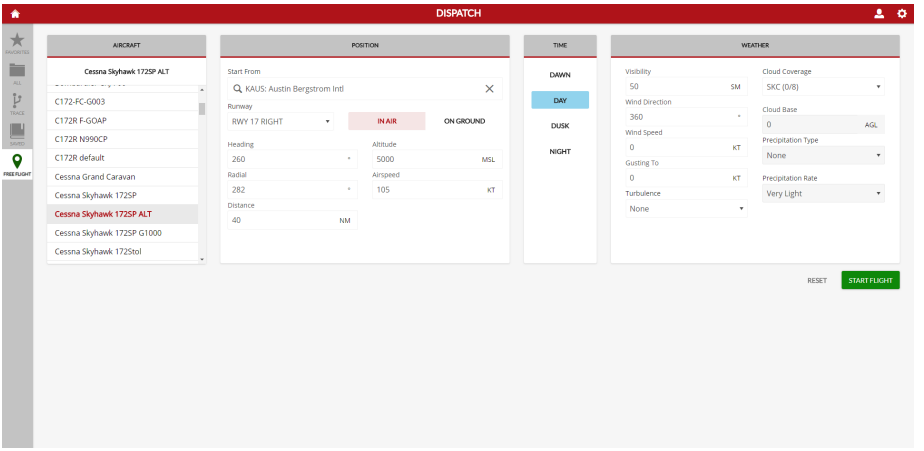


STEP 2: Type the ICAO code for the desired airport into the START FROM field. In this example, we'll use KAUS which is Austin-Bergstrom International Airport in Austin, Texas, USA. Select a runway from which to take off. Select "KAUS – Austin Bergstrom Int'l" and not one of the runways listed.

STEP 3: Once you have clicked on "KAUS – Austin Bergstrom Int'l" the following screen will appear. Click the IN AIR button to reveal the in-air menu items.

By default, Navigator places your airplane on a 5-mile final approach for the runway indicated in the RUNWAY drop down menu to the left of the IN AIR button. However, you may position the airplane anywhere you choose.

In this example, we're going to change where this IN AIR flight begins.



Set HEADING to 260°

Set ALTITUDE to 5,000 feet MSL

Set AIRSPEED to 105 knots

Set RADIAL relative to KAUS to 282° (282° FROM KAUS)

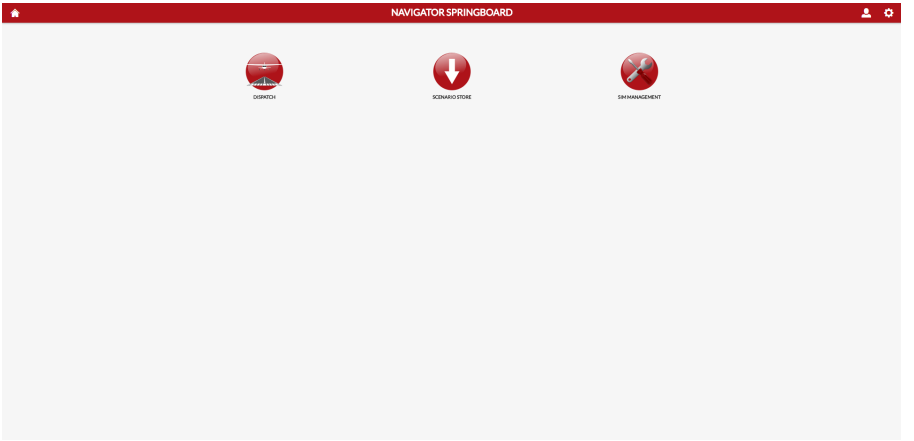
Set DISTANCE from KAUS to 40 nautical miles

STEP 4: You may also set the TIME and WEATHER conditions as desired at this time. For this example, we are keeping the default settings (daytime, perfect weather).

Select START FLIGHT to begin your flight. Once loaded, your flight will begin in a paused state. Press F12 to unpause.

NAVIGATOR SPRINGBOARD

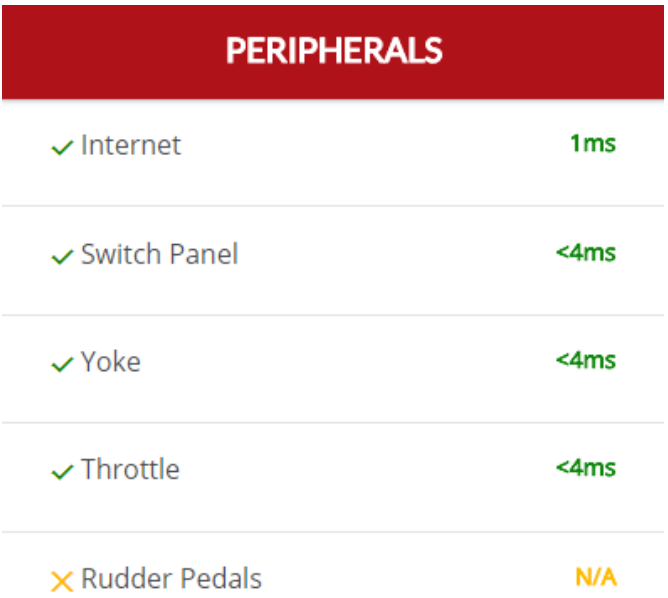
By clicking on the HOME icon in the upper left corner of Navigator, you can access the NAVIGATOR SPRINGBOARD which gives you access to all functions available to you.



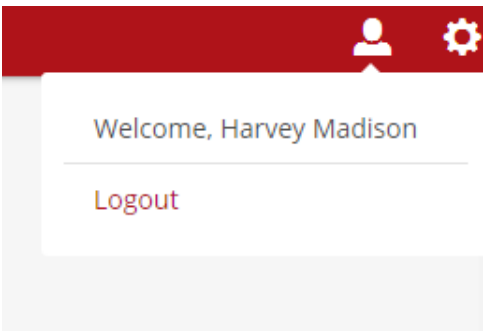
OTHER NAVIGATOR SCREENS AND FUNCTIONS

Clicking on the GEAR icon in the upper right corner of the screen brings up the PERIPHERALS status screen, indicating the connection status of the various hardware controls attached to your simulator.

In this example, the simulator computer "pinged" the Internet connection and received a response in 1 millisecond. The simulator computer pinged connected hardware and received a response in under 4 milliseconds from each, all signs of a healthy system.

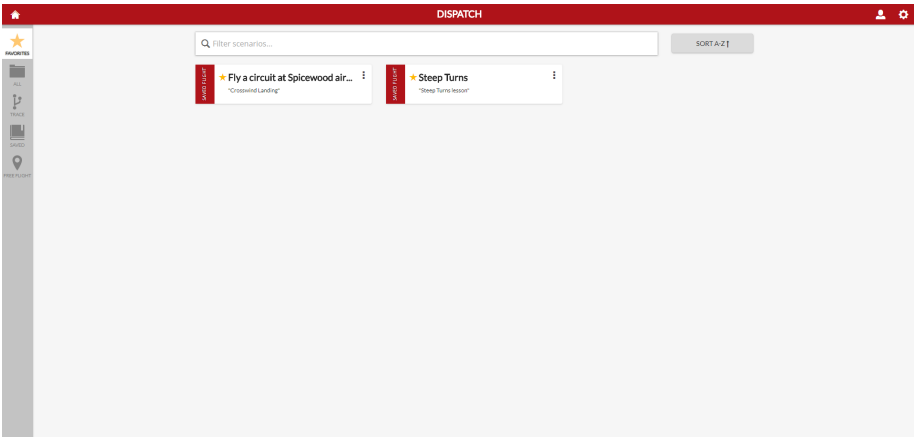


Clicking on the icon displays who is currently logged into the simulator using their pilot key. This menu also allows the user to logout of this account.



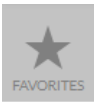
In the DISPATCH menu, there are 5 tabs on the left side of the screen from which to choose. The first one is the FAVORITES tab.

In this example, two of the missions that are saved to the simulator have been marked as favorites, so they appear in this menu. Any saved flight can be marked or unmarked as a favorite by clicking on the “star” icon.

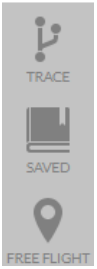


A saved flight is a favorite if the star is filled-in. ★

A saved flight is not a favorite if the star is an outline. ☆



The ALL tab will display all saved and downloaded flights on your simulator.



The TRACE tab will display any specialty flights downloaded from Redbird (such as Guided Independent Flight Training flights purchased from Redbird).

The SAVED tab displays all flights that you have saved on the simulator yourself, and flights downloaded from the Scenario Store (other than TRACE flights).

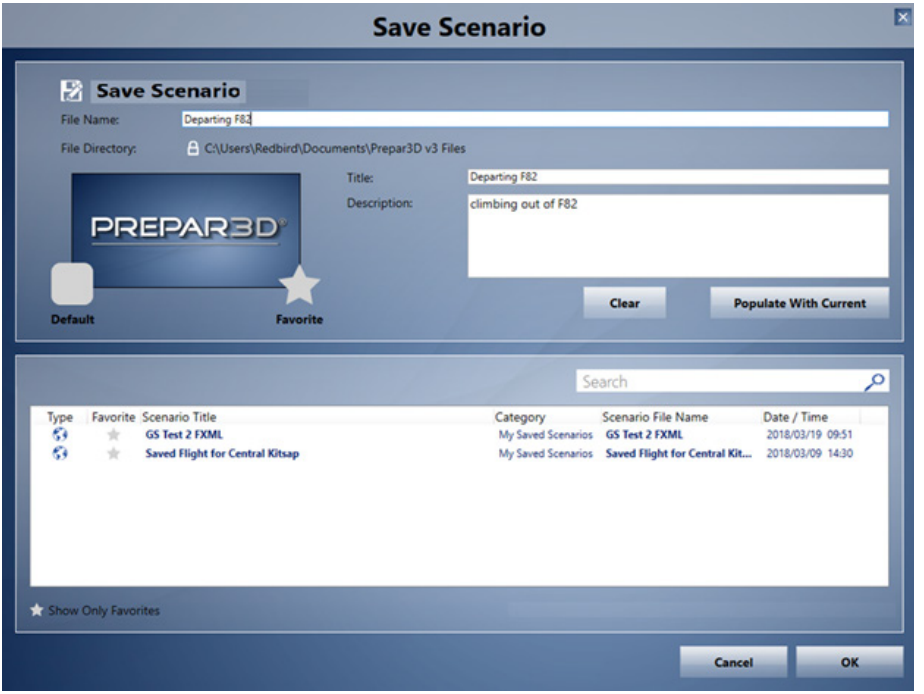
To SAVE a flight, start a FREE FLIGHT with the location, time and weather variables set however you wish. Launch the flight.

Once the flight has loaded, you may save the flight before unpausing the flight, or you may unpause the flight and fly the airplane until you have the airplane in exactly the situation and/or location at which you wish to save the flight.

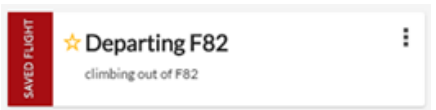
In either case, it's easiest (though not necessary) to pause the flight before following these steps to save your flight:

STEP 1: Press and briefly hold the ALT key on your keyboard until menu options appear at the top of your central screen. Move the cursor to "Scenario" and click on it, then select "Save…"

STEP 2: Type a File Name, Title, and Description into the fields shown below, then click OK.



Your saved flight will now appear in the SAVED menu in Navigator.



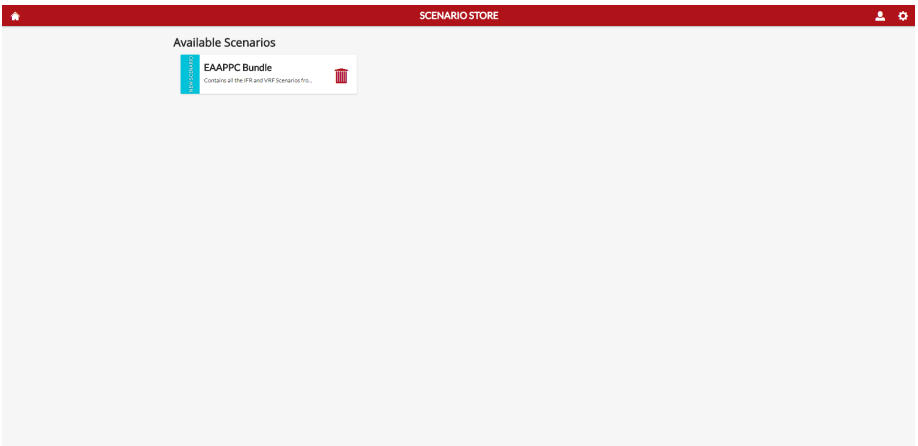
Now, when you select this saved flight, your simulator will load the flight at the point at which you saved it, in exactly the same conditions and location.

To delete the flight, click the ⋮ icon on the saved flight and select DELETE SCENARIO.

Selecting the SCENARIO STORE* option on the Navigator Springboard takes you to a screen where you may review available scenario downloads for your simulator.

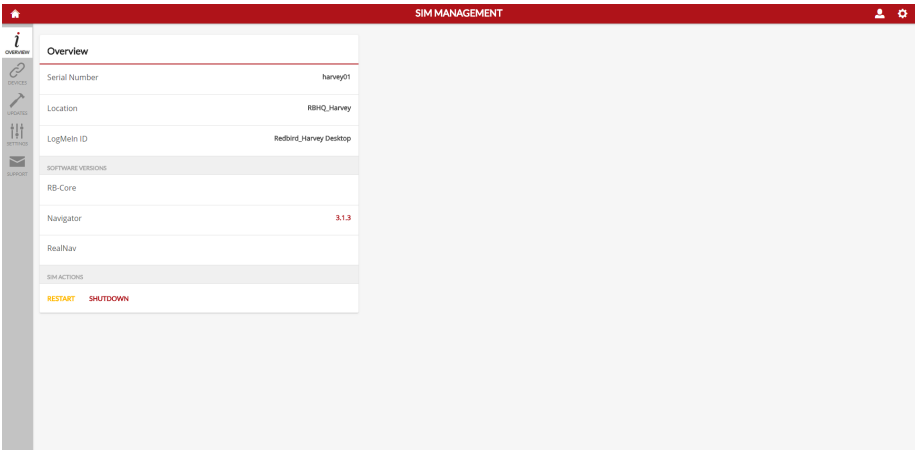
In this example, EAA Pilot Proficiency Center scenarios are available. To download, click the cloud icon on the right side of the EAAPPC bundle. Once the download is complete, these flight scenarios will appear in your SAVED flights tab of the DISPATCH menu.

*(*Internet connection required)*

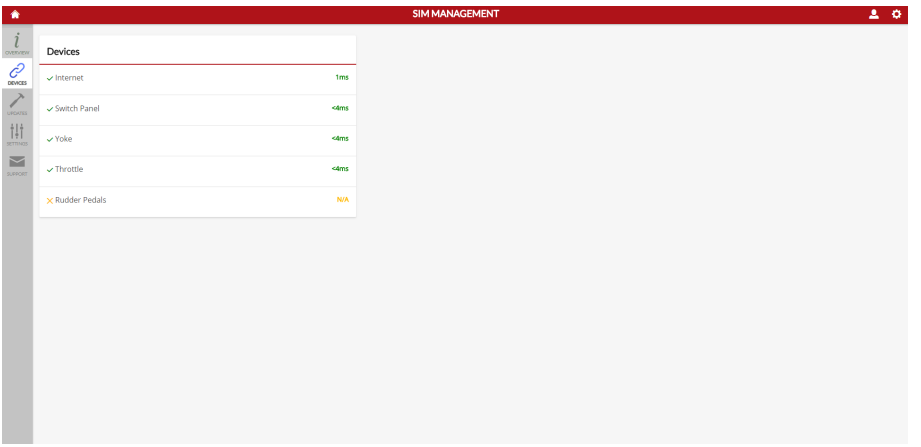


Selecting the SIM MANAGEMENT option on the Navigator springboard takes you to a screen with 5 tabs.

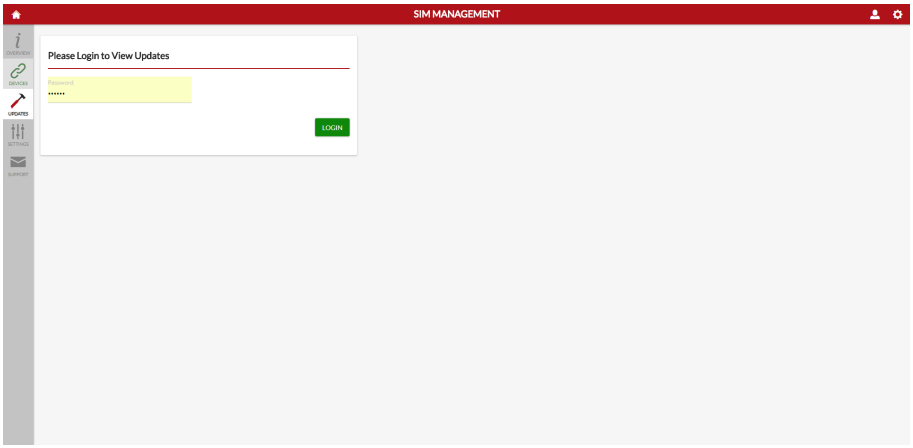
The OVERVIEW tab provides basic information about your simulator and software version. You can also RESTART or SHUT-DOWN the simulator from this screen.



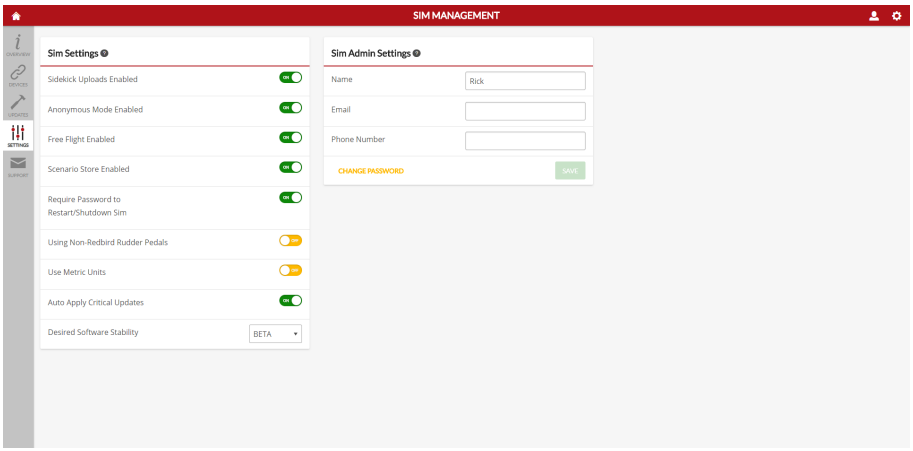
The DEVICES tab provides information similar to the peripherals status screen.



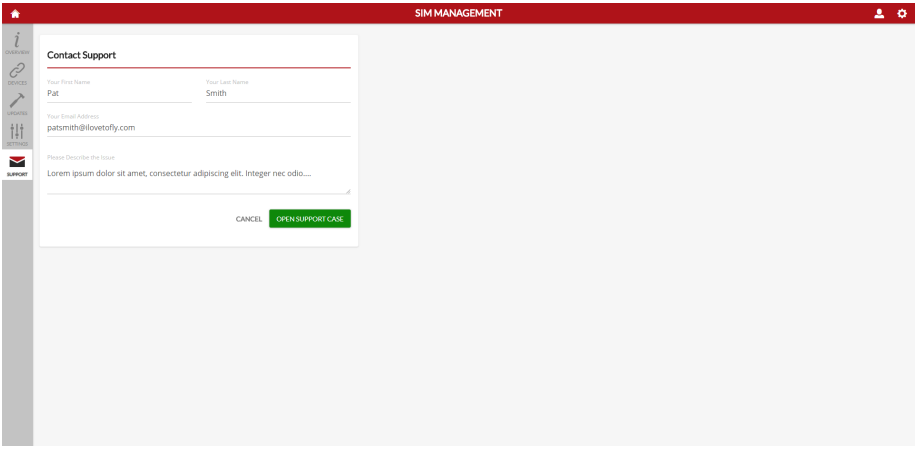
The UPDATES tab allows you to check with Redbird software servers over the Internet to check if any software updates are available for your unit. A password is required to access this screen. Contact your sim administrator to use this tab to check for updates, or contact Redbird directly.



The SETTINGS tab (another password protected screen) allows you to set administrative options. Contact your sim administrator to use this tab to check for updates, or contact Redbird directly. Available enable/disable options include Sidekick Uploads, Anonymous Mode, Free Flight, Scenario Store, Password Needed to Shut-down/Restart, Use Non-Redbird Rudder Pedals, Auto-Install Critical Updates, and Software Stability settings (Beta or Stable).



The SUPPORT tab allows you to open a support case with Redbird directly over the Internet. Simply fill out the form and a Redbird Technical Support Representative will review your issue and contact you, usually the same or next business day.



4

CONTROLS

The JAY / JAY VELOCITY is fitted with an effective and intuitive set of controls. All functions of the simulated airplanes are either available on the front of the JAY / JAY VELOCITY in physical form, or are controlled by the keyboard and touch pad included with purchase of the JAY / JAY VELOCITY.

Magnetos Selector

This selector, located at the front left of the system, controls the magnetos of the simulated aircraft. It has the Off setting which leaves both magnetos off, the Left and Right settings which turns on only the left or right magnetos respectively, and the Start/Run setting, which turns on both magnetos. As some aircraft have a different order for these settings than the JAY / JAY VELOCITY, the simulated selectors may seem to jump around while using this control on the JAY / JAY VELOCITY. This is normal, and should not in any way interfere with the operation of the JAY / JAY VELOCITY or the simulated airplane.

The Yoke

The yoke, one of the JAY's and JAY VELOCITY's best features is designed for easy and comfortable use and realistic in-and-out and side-to-side motion. On the left section of the yoke is the Trim Switch, which adjusts the simulated airplane's trim. Make sure to place your hands on the yoke so that you keep your grip away from the trim when not using it.

The yoke on the JAY VELOCITY includes a RADIO PUSH-TO-TALK (PTT) BUTTON, and an AUTO-PILOT OFF button, in addition to an ELEVATOR TRIM TAB (see p. 46).

JAY

JAY VELOCITY

Throttle Levers

These built-in levers control the throttle and fuel mixture of the simulated airplane, with the first going from fully open to fully closed and the second going from lean to rich.

Main Power Button

This button turns the JAY / JAY VELOCITY on and off. Press this button to power the unit on. Press it again to turn the power off. Before using this button to shut down the JAY / JAY VELOCITY, please end any simulation you are currently in, and then use the Shutdown button in the main menu. This will shut the system down safely and effectively.

Flaps

This toggle switch, located on the bottom right corner on the front of the JAY / JAY VELOCITY, controls the flaps of the simulated airplane, and has the up and down directions marked on it accordingly.

5

KEYBOARD COMMANDS

This chapter contains the keyboard commands that can be used while flying the JAY / JAY VELOCITY.

SIMULATOR	
Pause	F12 or P
Sound (on/off)	Q
Flying Tips (display/hide)	CTRL + SHIFT + X
Capture Screenshot	V
End Flight	ESC
Menus	ALT (hold to turn off)
Kneeboard	F8
Cycle Kneeboard	SHIFT + F10
Save Flight	F11
End Instant Replay	Pause/Break

GENERAL	
Brake (set parking)	F9
Brakes (apply/release)	F10
Landing Gear (extend/retract)	F1
Tail Wheel (lock/unlock)	SHIFT + G
Landing Gear (extend manually)	CTRL + G
Sub-panels (display/hide)	SHIFT + 1 through 9
Cowl Flaps (open incrementally)	CTRL + SHIFT + V
Cowl Flaps (close incrementally)	CTRL + SHIFT + C
Rudder Left	INS
Rudder Right	DEL
Increase Selection	= (EQUAL SIGN)
Increase Selection Slightly	SHIFT + = (EQUAL SIGN)
Decrease Selection	- (MINUS SIGN)
Decrease Selection Slightly	SHIFT + - (MINUS SIGN)

LIGHTS	
Lights - all (on/off)	L
Strobe Lights (on/off)	O
Panel Lights (on/off)	SHIFT + L
Landing Lights (on/off)	F2
Landing Light (tilt down)	CTRL + SHIFT + Num Pad 2
Landing Light (tilt left)	CTRL + SHIFT + Num Pad 4
Landing Light (tilt right)	CTRL + SHIFT + Num Pad 6
Landing Light (tilt up)	CTRL + SHIFT + Num Pad 8
Landing Light (tilt center)	CTRL + SHIFT + Num Pad 5

RADIO	
ATC Window (display/hide)	` (ACCENT OR SCROLL LOCK)
VOR 1 Ident (on/off)	CTRL + 1
VOR 2 Ident (on/off)	CTRL + 2
MKR Ident (on/off)	CTRL + 3
DME Ident (on/off)	CTRL + 4
ADF Ident (on/off)	CTRL + 5
COM Radio (select)	C
NAV Radio (select)	N
OBS Indicator (select)	SHIFT + V
ADF (select)	CTRL + SHIFT + A
DME (select)	F
Transponder (select)	T

AUTOPILOT	
Master (on/off)	Z
Flight Director (on/off)	CTRL + F
Wing Leveler (on/off)	CTRL + V
Yaw Damper (on/off)	CTRL + D
Altitude Hold (on/off)	CTRL + Z
Altitude Bug (select)	CTRL + SHIFT + Z
Heading Hold (on/off)	CTRL + H
Heading Bug (select)	CTRL + SHIFT + H
Airspeed Hold (on/off)	CTRL + R
Mach Hold (on/off)	CTRL + M
Auto-throttle (arm)	SHIFT + R
Auto-throttle Engage (TOGA)	CTRL + SHIFT + G
NAV 1 Hold (on/off)	CTRL + N
Approach Mode (on/off)	CTRL + A
Back Course Mode (on/off)	CTRL + B
Localizer Hold (on/off)	CTRL + O
Altitude Hold (on/off)	CTRL + T
Increase Selection	= (EQUAL SIGN)
Increase Selection Slightly	SHIFT + = (EQUAL SIGN)
Decrease Selection	- (MINUS SIGN)
Decrease Selection Slightly	SHIFT + - (MINUS SIGN)
Auto-Rudder	SHIFT + CTRL + U

INSTRUMENTS	
Heading Indicator (reset)	D
Altimeter (reset)	B
Pilot Heat (on/off)	SHIFT + H

VIEWS	
2-D Cockpit (cycle panels)	F6
View (next category)	S
View (previous category)	SHIFT + S
View (next view in category)	A
View (previous view in category)	SHIFT + A
View (previous view toggle)	CTRL + S
View (default zoom)	BACKSPACE
Look (pan)	ARROW KEYS
Look Forward	F3
Cockpit View	F4
Default View	F5
Cycle Default	F6
Outside View	F7
Default View	F8
2-D Panel Transparency	CTRL + SHIFT + T (= or -)
Zoom In	= (EQUAL SIGN)
Zoom Out	- (HYPEN)
View (next window)	CTRL + TAB
View (previous window)	CTRL + SHIFT + TAB

ENGINE	
Select Engine	E + engine number (1-4)
Select All Engines	E + 1 + 2 + 3 + 4
Engine Autostart	CTRL + E
Propeller (low RPM)	CTRL + F1
Propeller (decrease RPM)	CTRL + F2
Propeller (increase RPM)	CTRL + F3
Propeller (high RPM)	CTRL + F4
Carb Heat/Engine Anti-ice (on/off)	H

6

TROUBLESHOOTING

This chapter contains solutions to problems which may prevent you from flying your JAY / JAY VELOCITY. If you have a problem with your JAY / JAY VELOCITY, there is usually a simple and quick solution.

Troubleshooting Tips

Redbird lists solutions to problems from the most likely to least likely solution.

Computer won't power on or start up:

- Make sure the power switch on the back of the computer is turned on.
- Ensure that all power cables are firmly connected to the computer and to the electrical outlet.
- Ensure the power cables are not severely bent.
- Test the power cables and outlets by plugging them into another wall outlet.
- Test the wall outlet by plugging in other devices.
- Check to see if the power light is on (located in front of the computer).
- If the power light is on, push down and hold the power button for at least 10 seconds until the computer turns off.
- Restart the computer.

The computer stops responding or a solid blue screen appears:

- If you are unable to get a response by pressing a key on your keyboard, push down and hold the power button for at least 10 seconds until the computer turns off.
- Restart the computer.

There's no sound:

- Check the sound cable (if present) and video cable to ensure they are plugged in correctly.
- Check for damaged or frayed cables.
- To eliminate any possible interference or static, turn off nearby fans and fluorescent or halogen lights.
- Test audio by plugging in ear buds in the audio port.

Keyboard is inoperable:

- Check the keyboard's USB cable to ensure it's plugged in correctly.
- Check for damaged or frayed cables.
- Unplug the keyboard and plug it back in to a different USB port.
- Restart the computer.

The Navigator Menu doesn't appear:

- If the computer desktop is visible on the monitor, use the mouse to launch Navigator by double-clicking the "Navigator Desktop" icon.
- Ensure the power and video cables are firmly secured.
- Ensure the video cables are not severely bent or have broken pins.
- Test the power outlets by plugging it into another wall outlet.
- Test the wall outlet by plugging in other devices.
- Ensure the power light is on (located in front of the computer).
- Restart the computer.

Unable to launch flight in the Navigator Menu:

- If the Navigator Menu displays an error or is unresponsive, ensure that all power and USB cables are connected to the computer.
- Press CTRL+SHIFT+R to reload Navigator - check if problem has resolved.
- Ensure all flight conditions are chosen and filled in correctly and that there are no errors.
- Ensure the keyboard is properly connected to the computer (see keyboard is inoperable).

Unable to end flight:

- If the ESC button on the keyboard is inoperable, make sure the keyboard is properly connected to the computer (see keyboard is inoperable).
- Restart the computer.

Error In the Navigator Menu:

- Ensure the USB cables are properly connected to the computer.
- Press CTRL+SHIFT+R to reload Navigator - check if problem has resolved.
- Restart the computer.

The switches, yoke, throttle, knobs and or buttons are inoperable:

- Ensure all the USB cables are firmly secured.
- Try turning the knobs smoothly and steady at a moderate speed for best results.
- Restart the computer.

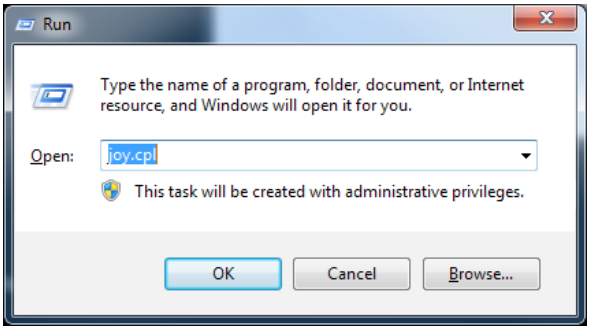
If the problem has not been resolved, visit our website at www.redbirdflightsimulations.com, or contact Redbird Service Department for additional support.

support@redbirdflight.com
Monday - Friday 8:00 a.m. - 6:00 p.m. CT
US Central Time
(512) 301-0755

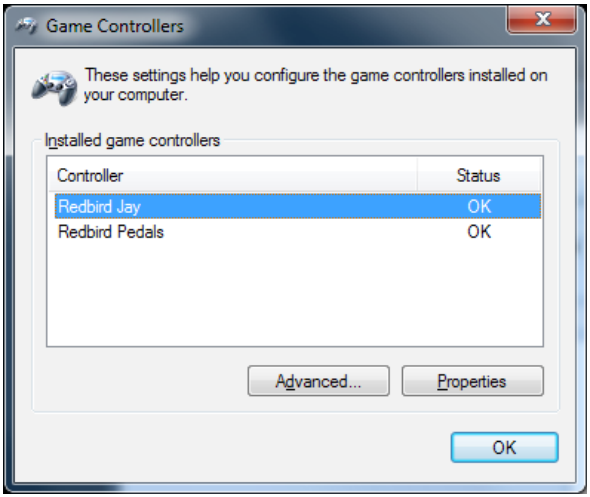
YOKE, THROTTLE AND MIXTURE CALIBRATION

Your JAY / JAY VELOCITY will arrive with the correct calibration set, however should something happen that requires recalibration, please follow these steps.

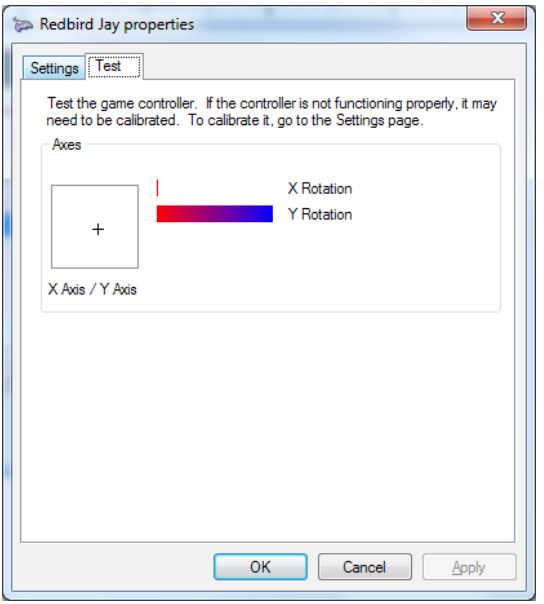
1. Turn on your unit and allow it to fully startup to normal flight setup screen.
2. At the flight setup screen, press CTRL+M to minimize the Navigator software.
3. Press the Windows+R keys to open the Run Command window.
4. Type “JOY.CPL” and press Enter or click OK.



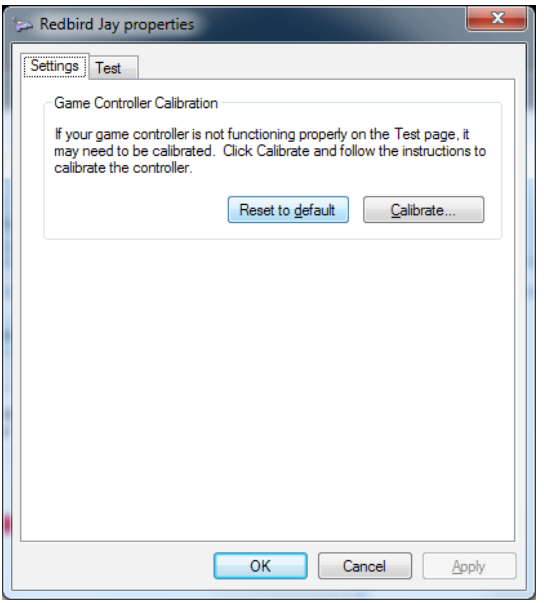
5. This will start the Game Controller setup function. Select Redbird JAY / JAY VELOCITY from the list and click PROPERTIES.



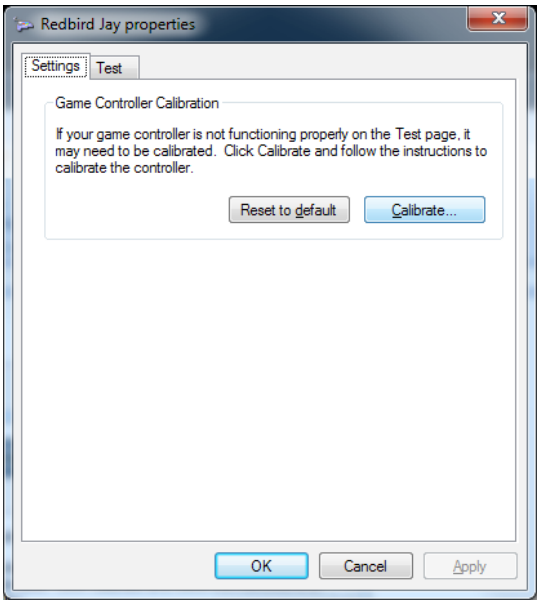
6. Select the SETTINGS TAB in the upper left.



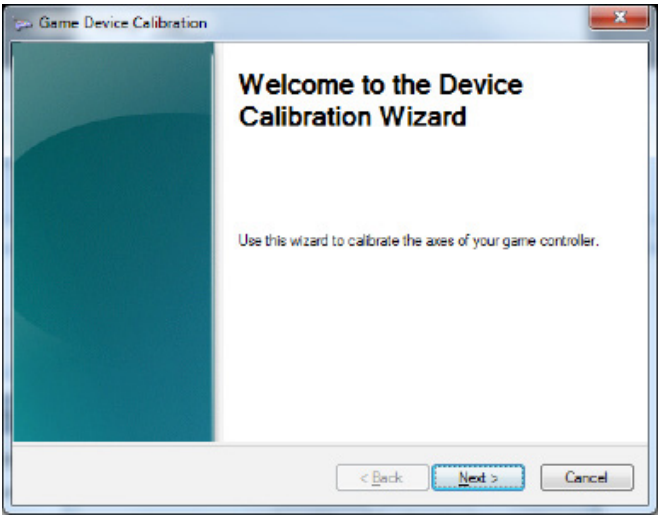
7. On the Settings Tab, click RESET TO DEFAULT.



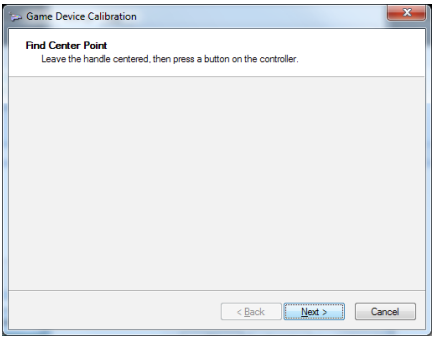
8. Click CALIBRATE.



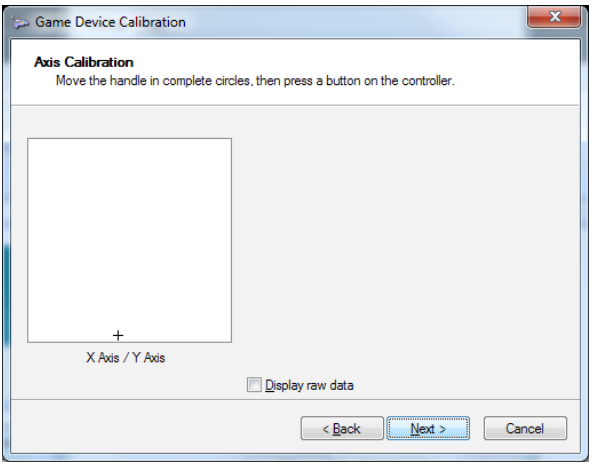
9. This will open up the Calibration Wizard. Click NEXT.



10. On the following screen, make sure the Yoke is at the center of its Axis. Click NEXT again.

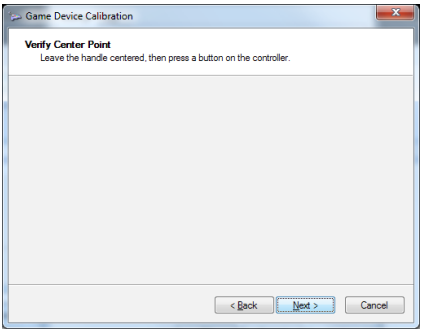


11. The next screen is the Calibration screen for the Yoke.

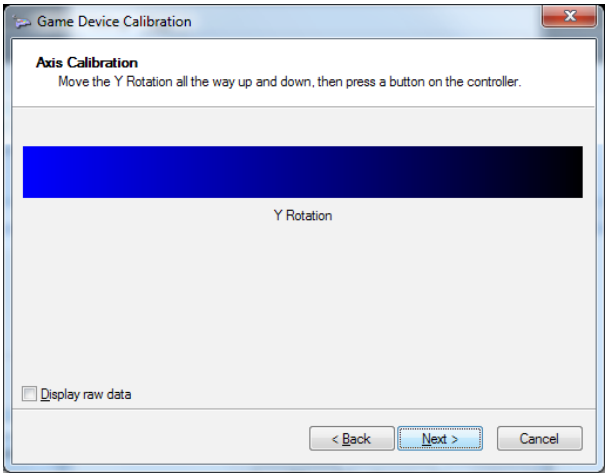


12. Using the Yoke, move the cross-hair around the perimeter of the box from NW-NE-SE-SW-NW and repeat. Make sure to move the Yoke to its full physical extents, in, out, left and right, multiple times.
    A. Full right turn
    B. Full back while holding right turn
    C. Full left turn while holding full back
    D. Full forward while holding left turn
    E. Full right turn while holding forward
    F. Repeat the pattern 3 times or more
13. When finished, return yoke to center position, click NEXT.

14. POSITION the Throttle and Mixture to physical center. Click NEXT again.

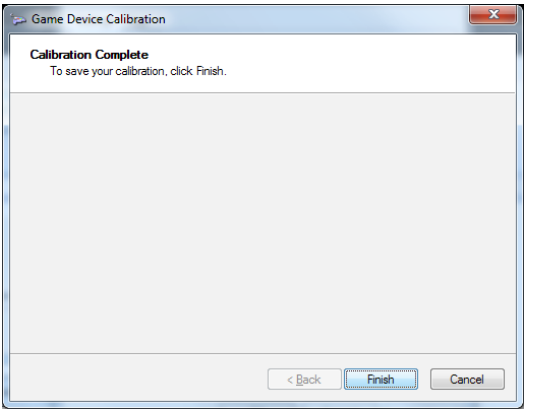


15. For X Rotation, move the THROTTLE forward and back (to full physical limits) two times and then back to center. Click NEXT.

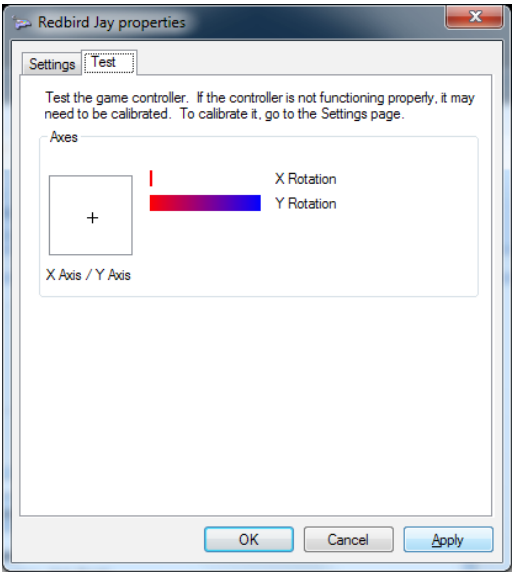


16. For Y Rotation, follow the same steps for the MIXTURE that you did on the Throttle. When finished, click NEXT.

17. Your Yoke, Throttle and Mixture are now calibrated. Click FINISH.



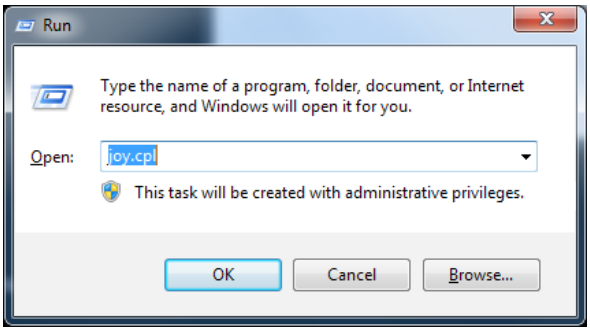
18. Click APPLY and then click OK.



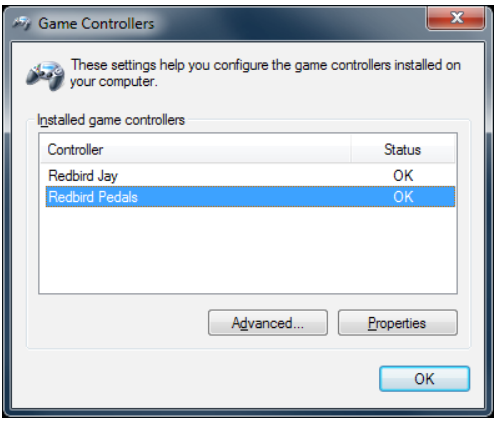
OPTIONAL RUDDER PEDAL CALIBRATION

If you purchased Rudders with your JAY / JAY VELOCITY, the following steps will guide you through the calibration process.

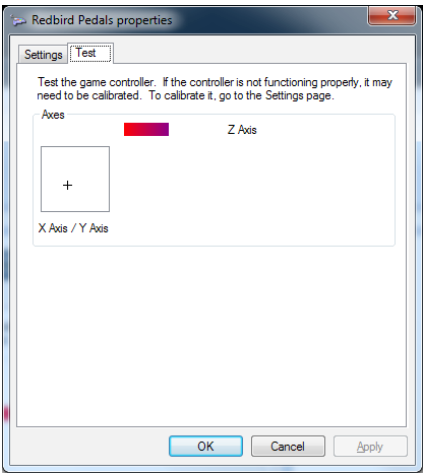
1. Turn on the unit and allow it to fully startup to normal flight setup screen.
2. At the flight setup screen, press CTRL+M to minimize Navigator.
3. Press the Windows+R keys to open the Run Command window.
4. Type “JOY.CPL” and press Enter or click OK.



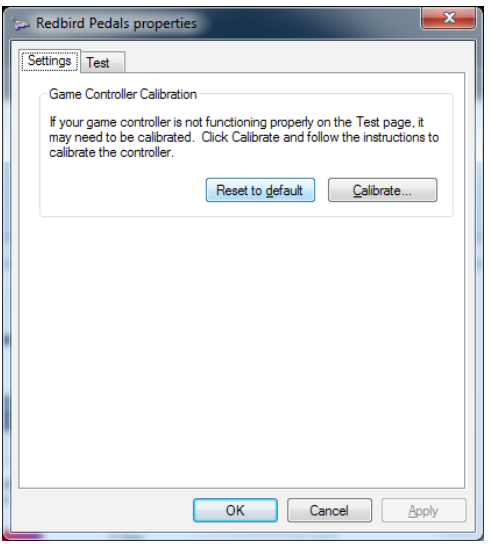
5. This will start the Game Controller setup function. Select your Pedals from the list and click Properties.



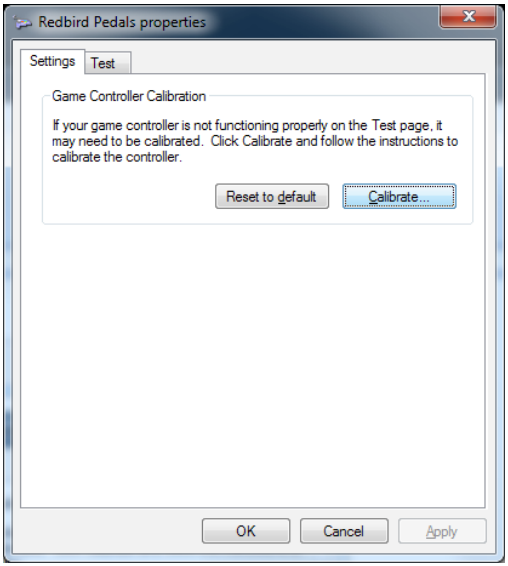
6. Select the SETTINGS TAB in the upper left.



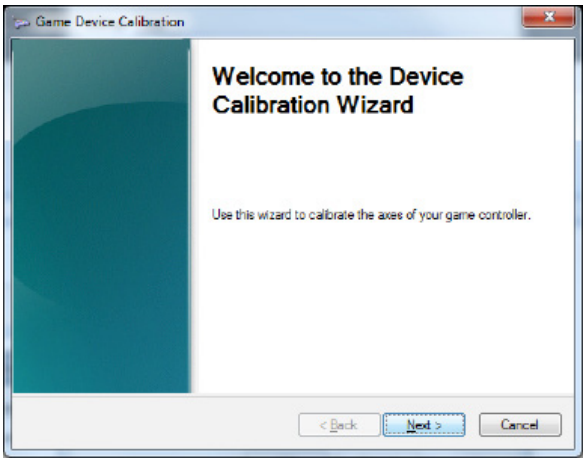
7. On the Settings Tab, click RESET TO DEFAULT.



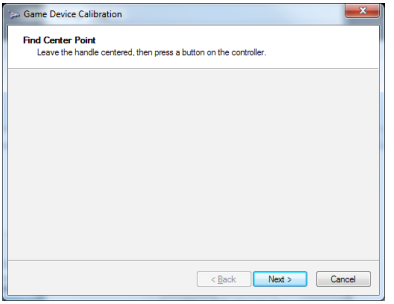
8. Click CALIBRATE.



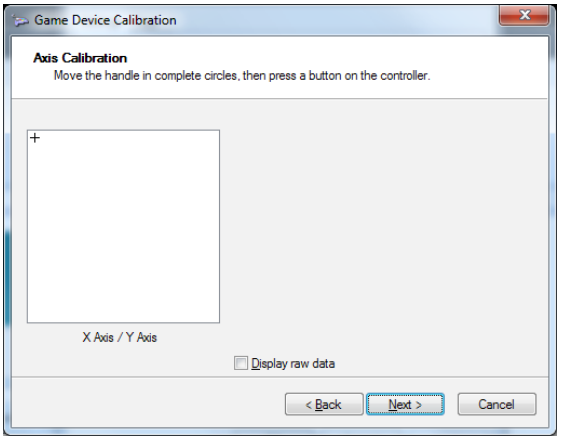
9. This will open up the Calibration Wizard. Click NEXT.

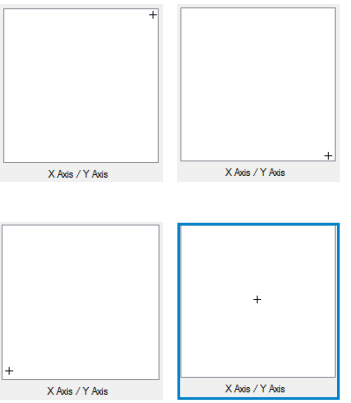


10. On the following screen, make sure toe brakes are centered. Hold the brakes halfway down by feel and then click NEXT.



11. The next screen is the Calibration screen.

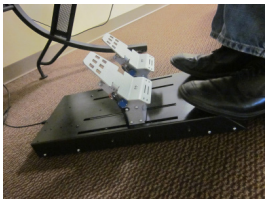


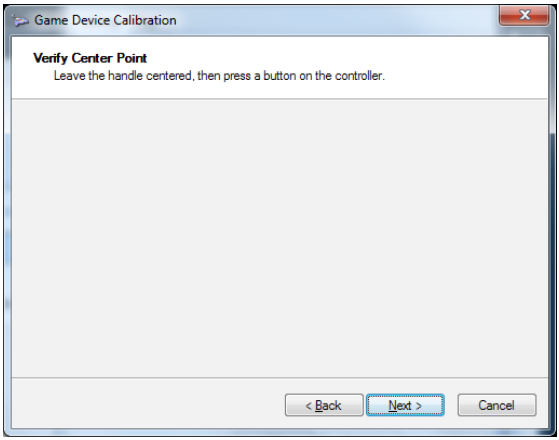


Step 12D
Critical Step

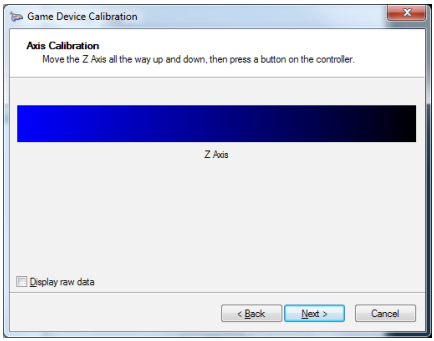
12. Move the cross-hair around the perimeter of the box from NW-NE-SE-SW-NW and repeat.
    A. Press LEFT toe brake in and HOLD, then press RIGHT toe brake in and HOLD.
    B. Release LEFT toe brake, then release the RIGHT toe brake.
    C. REPEAT a few times.
    D. HOLD BOTH toe brakes physically HALFWAY in to center the cross-hair in the box, HOLD and click NEXT (*critical step*).

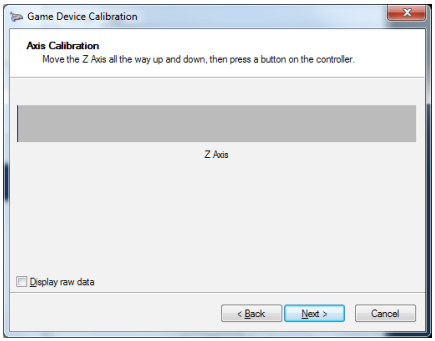
13. Take your feet off of the Pedals to center pedals, click NEXT.





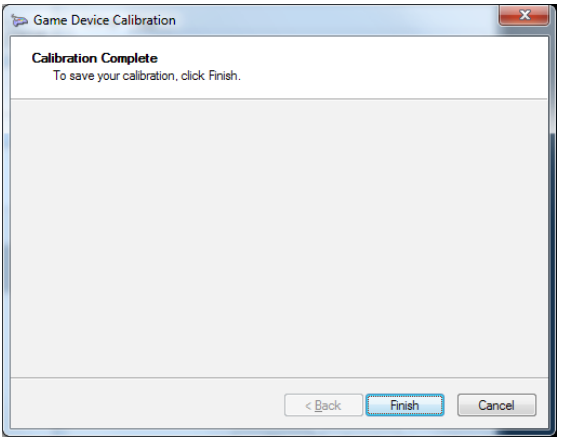
14. Alternating feet, push one Rudder Pedal physically all the way FORWARD and BACK (RELEASE). Do the same for the other pedal. REPEAT a few times.



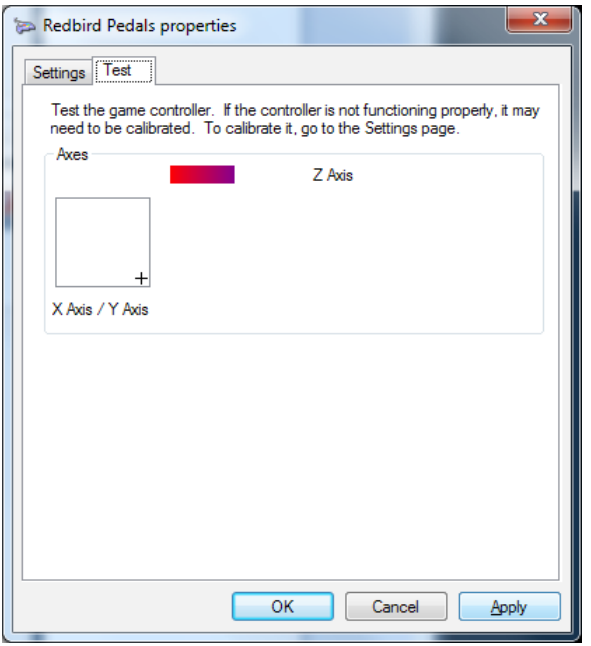


15. When finished click NEXT.

16. Your Rudder Pedals are now calibrated. Click FINISH.



17. Click APPLY and then Click OK.



18. RESTART your JAY / JAY VELOCITY.

LEARNING MORE, SERVICE AND SUPPORT

The JAY / JAY VELOCITY comes with a one (1) year warranty, which includes software updates, service and replacement parts as needed.

Any unauthorized software on your JAY / JAY VELOCITY is prohibited and will void your warranty.

Contact Redbird Service and Support if you:

- Can't find what you are looking for in this manual
- Need to return items for warranty and repair
- Lost your original shipping and packaging materials
- Have problems with your order, such as missing or wrong parts

support@redbirdflight.com
Monday - Friday 8:00 a.m. - 6:00 p.m. CT
US Central Time
(512) 301-0755

Returning Items for Warranty and Repair

Prepare all items being returned for repair as follows:

1. Prior to returning materials, ensure you've tried all troubleshooting (page 53) and spoken with a Redbird Service Department personnel.
2. Call Redbird Service Department at 512-301-0755
   Monday through Friday 8:00 a.m. - 6:00 p.m. CT (US Central Time), excluding holidays, to obtain a return
3. The following guidelines apply when packing the product for repair:
   - Include your name, address and contact phone number
   - All products being returned for warranty service must be carefully packed in the original box and packing materials. Any damage incurred due to improper packing or use of other packing materials will void the warranty and all repairs will be chargeable to customer.
   - If issued to you, the RMA # must be clearly printed on the shipping label (not on the box). - Contact Customer Service to see if you need an RMA #.
4. During Redbird's product warranty, the customer will be responsible for postage, insurance and/or shipping cost incurred to ship the product to Redbird's Customer Service Department, and Redbird will be responsible for the shipping cost incurred to return the product back to the customer's specified address within the contiguous United States (48 states and DC.)
5. You also assume the risk of loss during shipment to Redbird Services.
6. Collect On Delivery (C.O.D.) packages are not accepted.
7. The JAY and JAY VELOCITY packaging and shipping materials are designed for protection. If the JAY or JAY VELOCITY is not shipped in its original packaging to Redbird Customer Service Department for custom repair and support, Redbird will not be liable for damages other than what is specified by the client. If needed, Redbird will provide replacement packaging at the customer's expense.

Returning Address:

Redbird Flight Simulations
Attention: Customer Service Department
2301 E. St. Elmo Rd., Suite 100
Austin, TX 78744

WARRANTY

WARRANTY PERIOD

The warranty hereof shall mean a period of one (1) year from the original date of purchase for parts & labor. In the event that the product required for replacement is no longer in production and/or is obsolete, Redbird will repair the unit with similar or like parts of equal function. If a similar or like part is not available, a charge may be incurred to the owner, for any upgraded part substituted.

WARRANTY TERMS AND CONDITIONS ON JAY / JAY VELOCITY PRODUCTS

1. Redbird warrants that the product you have purchased is free from manufacturing defects in materials and workmanship when dispatched from our warehouse.
2. The receipt of purchase shall be provided as proof of the date of purchase and the warranty period commences as of that date. Proof of purchase will be required in the event of any discrepancy.
3. The warranty will not apply to any product purchased from a dealer/reseller other than an authorized Redbird dealer/reseller.
4. This warranty applies to the original purchaser only and is not transferable.
5. The warranty automatically becomes void if the product has been physically damaged or rendered defective (a) as results of an accident, misuse, fire, lightning, malicious damage, water damage, abuse or other circumstances beyond Redbird's control; (b) by the use of parts or peripherals not authorized by Redbird; (c) as a result of normal wear and tear; (d) by use in an improper operating environment; (e) by improper installation and operation or unauthorized modification of the product; (f) by the serial number or product code sticker being removed or defaced; (g) as a result of a service rendered by anyone other than Redbird authorized service center or its authorized service agents; (h) as a result of the product not being operated in conformity with Redbird's user manual.
6. Replacement product or parts may include re-manufactured or refurbished parts or components. All replacement parts are warranted for one (1) year.
7. Your LCD Monitor included contains thousands of individual pixels. These monitors typically contain a small number of pixels that do not function normally. Your display has been inspected and is in compliance with the manufacturer's specifications, indicating that any pixel defects do not affect the operation or use of your monitor.
8. In all circumstances, the user must ensure that the product is packed in appropriate packing. Any damage due to improper packing will void product warranty and the cost incurred to repair damaged product will be customer's responsibility.
9. Software related faults resulting from customer installed software, incorrect software installation or usage or software viruses shall not be considered as product faults and may incur a charge for rectification.
10. Redbird is not responsible for damages of any kind including, but not limited to, direct or indirect damages, lost profits, lost savings, or other special incidental, exemplary or consequential damages whether for breach of contract, tort or otherwise, or whether arising out of the use of or inability to use the product, even if Redbird or any dealer, distributor or authorized service provider / partner have been advised of the possibility of such damages, or any claim by any other party. This warranty does not deprive the Owner/Customer of any rights or remedies under that Trade Practices Act 1974 and/or under any other applicable commonwealth, State or Territory legislation.

WARRANTY (con't)

To Obtain Warranty Service:

1. Contact our Customer Service Department Monday through Friday 8:00 a.m. – 6:00 p.m. CT (US Central Time), excluding holidays, to determine the nature of the problem. If product needs to be returned for repair, an RMA # (Return Material Authorization number) may be issued. Redbird's Authorized Service Centers may not accept a returned product without RMA # if one was issued to you. Contact Customer Service to see if you need an RMA #.
2. The following guidelines apply when packing the product for repair:
   - Include your name, address, and contact phone number
   - All products being returned for warranty service must be carefully packed in the original box and packing materials. Any damage incurred due to improper packing or use of other packing materials will void the warranty and all repairs will be chargeable to customer.
   - If one was issued to you, the RMA # must be clearly printed on the shipping label (not on the box).
3. During Redbird's product warranty, the customer will be responsible for postage, insurance and/or shipping cost incurred to ship the product to Redbird's service center and Redbird will be responsible for the shipping cost incurred to return the product back to the customer's specified address within the United States of America (50 states and DC), Canada, Mexico and Puerto Rico. For all other regions customer is responsible for postage, insurance and/or shipping costs both to and from Redbird's service center.
4. Redbird is not responsible or liable, for missing components and/or damage to the unit caused by any shipping to or from any Authorized Redbird Service Center. All claims of damage should be directed to the appropriate shipping carrier.

For Customer Service, please contact Redbird at:

Redbird Flight Simulations
Attention: Customer Service Department
2301 E. St. Elmo Rd., Suite 100, Austin, TX 78744
Tel: 1-512-301-0755

Email: support@redbirdflight.com
Web: http://www.redbirdflight.com

2301 E. St. Elmo Rd., Suite 100
Austin, TX 78744
USA

www.redbirdflight.com