Eclipse PX

Surround Panning Joystick Controller



User Manual for Windows 7

JLCooper Electronics

Eclipse PX User Manual for Microsoft Windows

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Introduction

The Nuage Panner and the Eclipse PX are identical functionally.

The Nuage Panner's form factor is intended to fit into a Yamaha/Steinberg Nuage Console System. The labels for its various controls reflect the function of those controls when used with Steinberg Nuendo software.

The Eclipse PX is designed to sit on a desktop, and its labels reflect its use as a general purpose device.

However, from a software standpoint, they are completely interchangeable. Consequently, the term "panner" will often be used in this guide to refer to either one.

Configuring the Hardware

The unit has an Ethernet Interface that can be configured directly from the front panel of the unit.

To configure the Ethernet Interface from the front panel of the unit, do the following:

1. Turn unit off or remove power plug.
2. Press and hold the Enable and S1 (↔) buttons.
3. Turn unit on or insert power plug.
4. Release the buttons.
5. The unit will display the firmware version for a few seconds.
6. After that, the display shows the first number of the IP address.
7. To show or modify the first number of the IP address, press the S1 (↔) button.
8. To show or modify the second number of the IP address, press the S2 (↕) button.
9. To show or modify the third number of the IP address, press the S3 (⤢) button.
10. To show or modify the last number of the IP address, press the S4 (⤡) button.
11. Turn the encoder labelled E1 or FrontDivergence/Width to adjust the IP address.
12. To store the IP address, press the Enable button.
13. To load the new IP address, power cycle the unit.

Installing the software

Installing the MIDI Driver

To install the MIDI Driver and Nuendo Plug-In:

1. Launch the installer by double clicking on the appropriate installer.
   If you are using a 32-bit version of Windows, use EclipsePXNuageSetupx32.exe.
   If you are using a 64-bit version of Windows, use EclipsePXSetupx64.exe.



2. A dialog box will open indicating that the publisher could not be verified. Are you sure you want to run this software? Click **Run**.



3. The installer will start installing the MIDI driver.



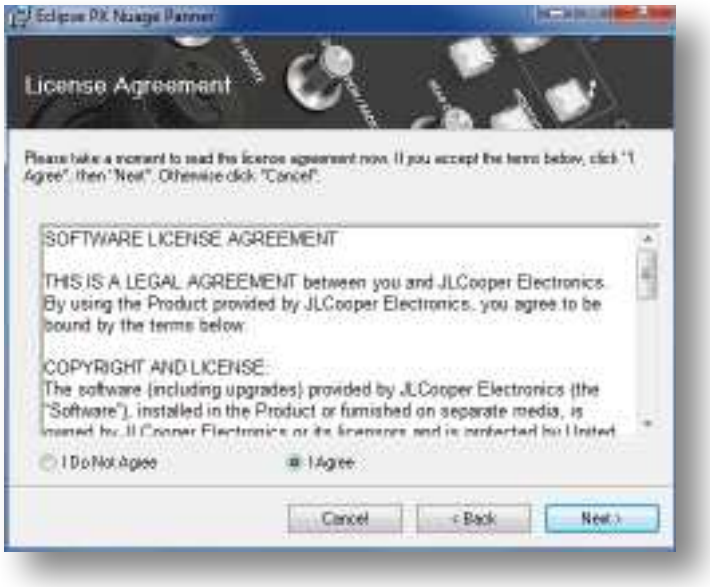
4. A User Account Control dialog box will appear. If it does, simply click on the Yes button.



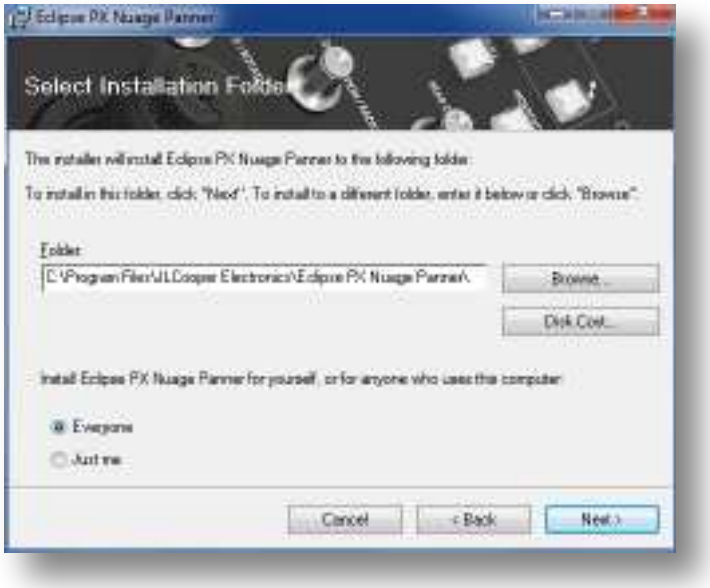
5. The Installation Wizard dialog box will appear. Click on the Next > button.



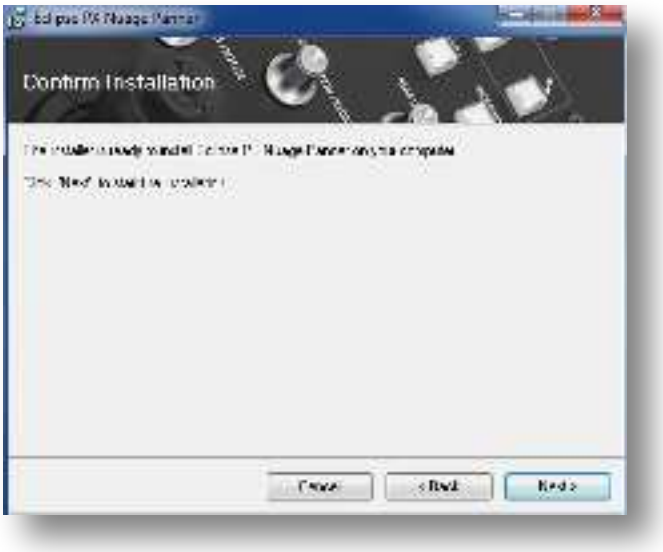
6. The License Agreement dialog box will appear. Select I Agree and click on the Next > button.



7. The Select Installation Folder dialog box will appear. Click on the Next > button.



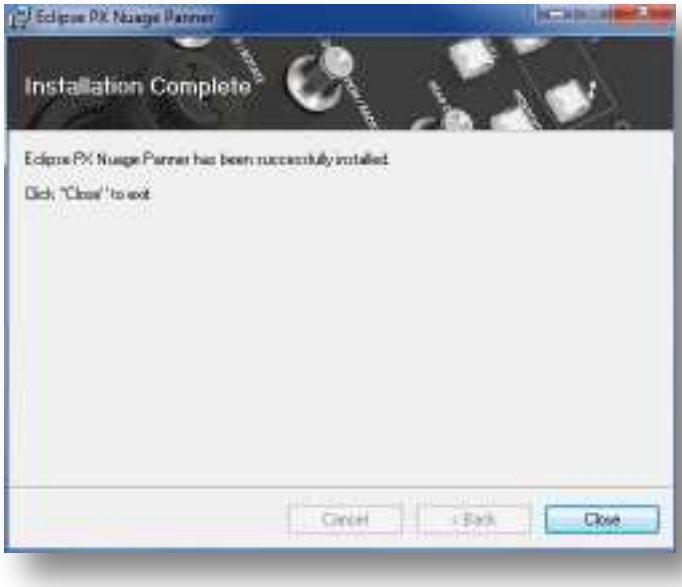
8. The Confirm Installation dialog box will appear. Click on the Next > button.



9. A User Account Control dialog box may appear. Click on the Yes button.



10. The installation is complete. Click on the Close button.



The MIDI Drivers and Configuration software are now installed.

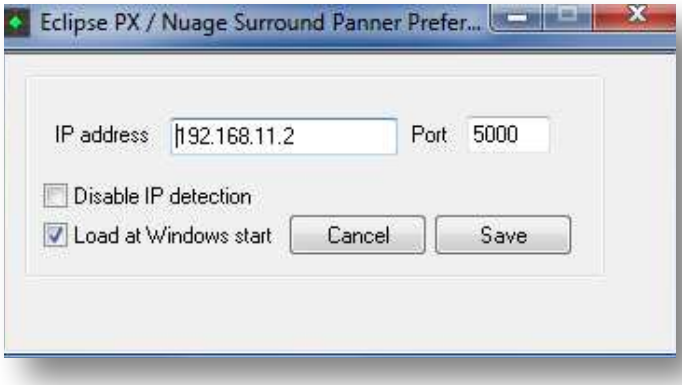
Configuring the MIDI Driver

Before the Eclipse PX can be used, the driver needs to be configured. To do that, complete the following steps:

1. Launch the Panner Preferences application.



2. Enter the IP address and TCP port of your panner and verify that the **Load at Windows Start** option is enabled. Click **Save**.



3. Launch the Panner Ethernet Adapter application.



4. The Panner Ethernet Adapter icon will appear in the System Tray. It will initially appear red when the software launches.



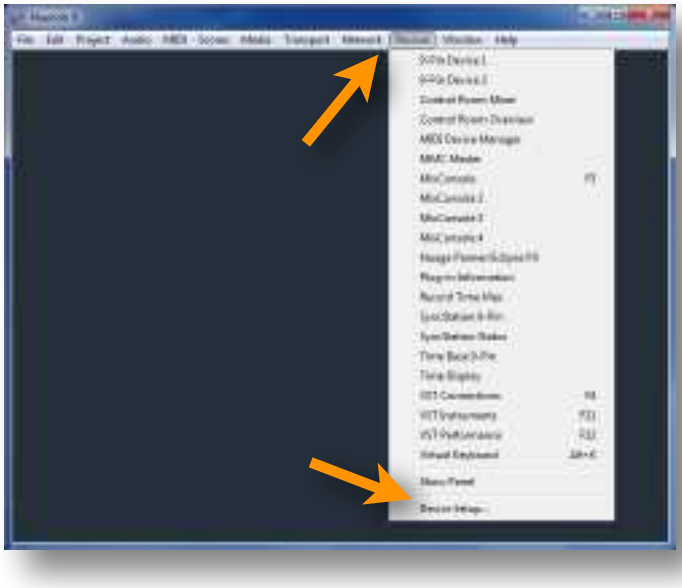
5. The Panner Ethernet Adapter icon will turn green when the software establishes a connection to the panner.



Configuring the Nuendo Plug-In

Before using the Eclipse PX in Nuendo, the Eclipse PX must be added as a device. This is done by the following:

1. Launch Nuendo.
2. Click on Devices from the menu.

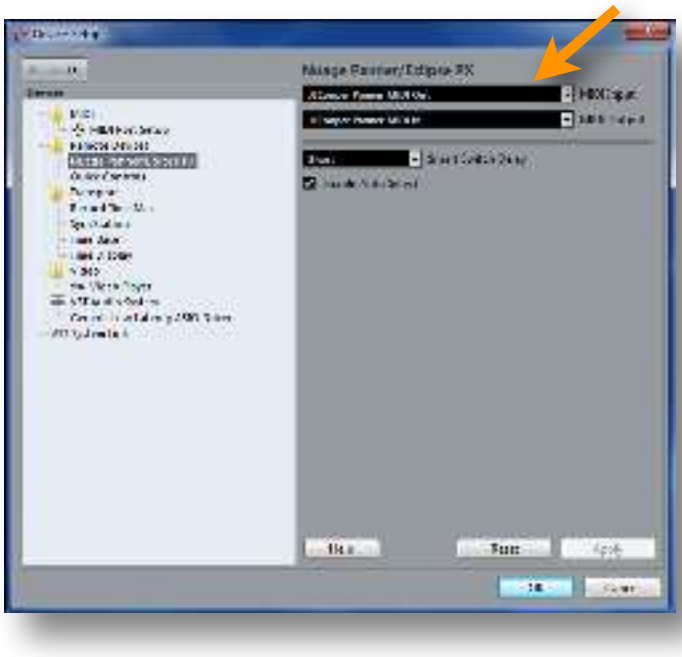


3. Select **Device Setup…** from the drop down box.
4. If there is not an item labelled “Nuage Panner / Eclipse PX in the list, click on the **+** icon.



5. Select Nuage Panner / Eclipse PX from the drop down box.

6. Verify that the MIDI port settings are correct.
   MIDI Input is set to JLCooper Panner MIDI Out
   MIDI Output is set to JLCooper Panner MIDI In



7. Click OK.

Using the Eclipse PX in Nuendo

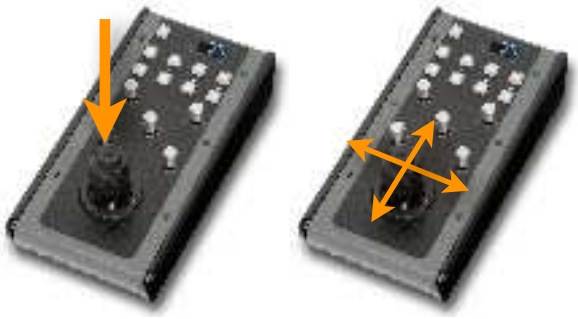
1. After loading a project, display the MixConsole. This can be done by pressing F3.
2. Select the track you wish to control by clicking the channel strip.



3. To enable the Eclipse PX press the Enable button on the Eclipse PX.



4. To move the position of the audio track in the surround field, press the button on the joystick and move the panner as desired.



Panner Operation in Nuendo

The **ENABLE** Button must be lit for the panner to have an effect on the software.

The joystick is used to position the sound source. The button at the top of the joystick is known as the **GRAB** button. To prevent accidentally knocking the joystick at an inopportune time, the joystick only has an effect while the **GRAB** button is pressed. This feature also allows you to position the joystick where you want ahead of some move, without affecting the mix.

As mentioned earlier, the front panel labels on the Nuage Panner correspond to Nuendo functions the various controls perform, while the labels on the Eclipse PX are more general purpose. Here is a comparison between the Nuage and PX labels:

The first row of four buttons with the arrow symbols above them on the Nuage (**S1** - **S4** on the Eclipse PX) set constraints on the movement of the sound source. These constraints are only in effect while the buttons are held down.

The first one is the **Constrain Horizontal** button. While it is held down, moving the joystick will only move the sound source left and right in relation to its current position.

The next button is the **Constrain Vertical** button and restricts the movement of the sound source to the front and rear of its current position.

The next two buttons only allow diagonal movement. The first is rear-left to front-right and the second is right-rear to front-left.

When the **FINE** button (**S5** on the PX) is held down, the rotary encoders and joystick operate with greater precision.

The **COUNTER-SHOT** button (**S6**) rotates the sound source by 180°, effectively flipping the entire surround image to the opposite side.

When the **NULL** (**S7**) button is lit, the sound source always moves relative to its current position, no matter where the joystick happens to be when the **GRAB** button is pressed. For example, when the **NULL** button is **not** lit and the sound source is in the upper right quadrant while the joystick is in the lower left quadrant, pressing **GRAB** and moving the joystick will immediately cause the sound source to instantly move to the lower left quadrant. On the other hand, if **NULL** was lit in this same example, pressing **GRAB** and moving the joystick would cause the sound source to move smoothly from its original position.

The **RESET** button (**S8**) returns all of the surround parameters to Nuendo's default settings.

The five rotary encoders are also push buttons. Each encoder's function changes depending on whether it is pressed or not. The different functions are labeled on the Nuage front panel. For example, the first encoder (**E1** on the **Eclipse PX**) controls **FRONT DIVERGENCE** when turned normally and **WIDTH** when turned while pressed.

The second encoder controls **REAR DIVERGENCE** and **DEPTH** when pressed.

the third encoder controls **CENTER DISTRIBUTION** when not pressed and **RADIUS** when pressed.

Likewise, encoder four's two functions are **FRONT-REAR DIVERGENCE** and **ROTATE**.

Encoder five controls **LFE Level** and **ORBIT**.

The knob on the joystick is for **GLOBAL DIVERGENCE**, in other words, it controls front divergence, rear divergence and front-rear divergence all at once.

The Display

The panner's display normally shows the number of the currently selected track, unless that happens to be an input or output channel, in which case it will read "i-o".

Whenever you adjust a parameter with a rotary encoder, the display will show the value of that parameter. The encoders are touch sensitive, and their parameter's value will be displayed for about a 3rd of a second after let go.

Please see the Nuendo Operation Manual for more information on using surround sound in Nuendo.

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