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## INTRO

Welcome to the Nocturn User Guide. This document will guide you in using the Nocturn hardware and Automap Universal 2.0 software to control music software and hardware MIDI devices. If you require further guidance or technical support after reading this guide, please visit the Novation Answerbase, which can be found in the support area at www.novationmusic.com. The Novation Answerbase contains troubleshooting articles for all Novation products and a technical support contact form that you can use to get in touch with someone at Novation if you cannot find the information you are after. Remember also to keep an eye out for Nocturn updates in the Software Download section of Support at www.novationmusic.com.

# REGISTRATION

To register your Nocturn, visit www.novationmusic.com and click the 'Register' link in the main menu at the top of the home page, then fill in the required details. In addition to this you can sign up to receive Novation e-zines, which are e-mail newsletters (sent once every two or three months) containing product update news, competitions, freebies and tips from signed artists. Registering your Nocturn is the best way to ensure you stay up to date with any developments in Automap, as well as help with any technical enquires you may make.

# **1. INSTALLATION**

Read the following instructions for PC or Mac to learn how to install Nocturn on your computer. After installation, remember that Nocturn is not a MIDI device, it is an Automap device. MIDI is transmitted using the virtual MIDI ports within the Automap Universal (Server) software.

#### 1.1 PC

The Nocturn is compatible with Windows XP service pack 2, XP X64 and Vista (32- and 64- bit editions). Installation places the Nocturn driver and Automap Universal 2.0 software on your computer.

- 1. Close all running programs and disconnect all USB devices from the computer, with the exception of keyboard and mouse.
- 2. Locate the file 'NocturnSetup.exe' on the Nocturn resources disc and double-click to run it.
- 3. The installer will prompt you to connect the Nocturn to your computer. If the Windows Found New Hardware Wizard appears after you connect the Nocturn, click 'cancel' to close it and then continue with the installation.
- 4. During installation the following message may appear:

#### Win Vista



Win XP



Click 'Install' (Win Vista) or 'Continue Anyway' (Win XP) to continue with the installation.







5. Towards the end of the installation the Automap Plug-in Manager will open automatically.

Drag plug-ins from the left to i To remove then	the right to enable them for Automap. In just drag them away.
Installed plug-ins	Automap enabled plug-ins
및 914 / 및 Albino3 / 및 ARP2600 V Efx / 및 Bass-Station / 및 BigSeq / 및 BitMeter / 및 Boost11 / 및 Chopper / 및 CS-80V (10 voices) / 및 DaTube / 및 D	Bass-Station (Automap) 양 V-Station (Automap)
ST plug-in folders	
C: Program Files (Cakewalk (Vstplugins	Add VST folder
C:\Program Files (x86)\Steinberg\VstP	lugins Remove folder

Select the plug-ins you want to use with Automap by dragging them from the left-hand list to the right-hand list, then click 'OK' to close the Plug-in Manager window and complete the installation. You do not have to select any plug-ins at this stage as the Plug-in Manager can be used to configure plug-ins at any time after installation. See section 2.5 for more information on the Plug-in Manager.

#### 1.2 MAC

The Nocturn is compatible with Mac OSX 10.4 or later (10.5 is supported). It does not require a driver to be installed on Mac and the supplied installer only installs the Automap Universal 2.0 software.

1. Close all running programs and disconnect all USB devices from the computer, with the exception of keyboard and mouse.

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- 2. Locate the file 'Automap Universal.pkg' on the Nocturn resources disc and double-click to run it.
- 3. Towards the end of the installation the Automap Plug-in Manager will open automatically.







Select the plug-ins you want to use with Automap by dragging them from the left-hand list to the right-hand list, then click 'OK' to close the Plug-in Manager window and complete the installation. You do not have to select any plug-ins at this stage as the Plug-in Manager can be used to configure plug-ins at any time after installation. See section 2.5 for more information on the Plug-in Manager.

# 2. GETTING STARTED

#### 2.1 NOCTURN HARDWARE OVERVIEW

This section gives a quick overview of the controls found on the Nocturn. The function of some controls may not be clear until you have read further on in this guide, however it may be useful for you to return to this section later for a reminder of what the controls do.



**Assignable Controls:** These are controls that can be assigned to parameters of the software or hardware you are controlling:

- **1** 8 assignable smooth, touch-sensitive encoders
- **2** 8 assignable buttons
- **3** Assignable touch-sensitive crossfader

Automap System Controls: These controls are not assignable. They have fixed functions as follows:

**Speed Dial –** Unlike the other encoders, which are smooth, this is a detented, push-button, touch-sensitive encoder. It has various functions:

1. When rotated, it will take immediate control of whatever parameter the mouse cursor currently rests over. The Speed Dial can be used in this way to control anything which can be adjusted using the mouse including plug-in parameters, scroll bars, window size etc.

2. When controlling a plug-in, it can be pushed in and rotated to select different plug-in presets. This will only work where a plug-in uses the host's preset system rather than its own built-in one.

3. When controlling the mixer in Cubase or Nuendo, it can be pushed in and rotated to select a different send bank.

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4. When a MIDI control map is selected, it can be pushed in and rotated to send MIDI program change messages.





- **5** Learn Button This toggles the learn mode state between: Off, Learn Once and Learn Latch. Learn mode is explained in section 3.6.
- **•** View Button This opens and closes the Automap Universal window. More information on the Automap Universal window is given in section 3.2.
- **Page Buttons –** These navigate through pages of parameter assignments within a control map or through pages of control maps in the Browser View of the Automap Universal window.
- **Group buttons (User/FX/Inst/Mixer) –** These open the Automap Universal window in Browser View, from which you can select a different client to control.

#### 2.2 THE AUTOMAP SERVER

The Automap Universal software, or 'Automap Server', handles communication between the Nocturn and the hardware or software it is controlling. The Automap Server must be running for you to be able to use the Nocturn. To get going after installation, connect the Nocturn to your computer via USB and then launch the Automap Server from:

**Windows:** Start -> All Programs -> Novation -> Automap Universal -> Launch Server **Mac OSX:** /Applicatons/Automap Server

After launching the Automap Server you will see the following window:

This is the Automap Universal window. You can resize, maximize and minimize the Automap Universal Window but it will not



go to the background when you give another window focus. When open, it will remain visible in front of all other windows. However, you can set it to be semi-transparent so that you can see what is going on behind it (see section 2.4). Press the 'View' button on the Nocturn to open and close the Automap Universal window.

Once the Automap Server is running, you can launch your music software. Some sequencers, when loading, will automatically launch the Automap Server if it is not already running. Whilst the Automap Server and your music software are running, the Nocturn can be disconnected and reconnected without causing problems. However, the Automap Server must not be quit at any point whilst your music software is running. Doing so will result in the music software having to be restarted to re-establish its connection with the Automap Server.







#### 2.3 AUTOMAP UNIVERSAL TERMINOLOGY - "CLIENTS", "CONTROL MAPS", "PAGES" AND "CONTROL MAP GROUPS"

Before you start to use the Nocturn, we recommend getting to know the terminology associated with Automap Universal.

#### 2.3.1 CLIENTS

"Client" is the term used for anything you can control using the Nocturn. This could be one of the following:

Automap-enabled (wrapped) plug-in (VST, AU or Pro Tools format) Sequencer mixer Automap MIDI Client

At present, only Cubase, Nuendo, Sonar and Tracktion support Automap mixer control. For other sequencers, mixer control may be possible using the Automap MIDI Client. The Automap MIDI Client can also be used to control MIDI-enabled plug-ins and hardware MIDI devices. More information on the Automap MIDI Client can be found in section 5. Automap mixer control for other sequencers will be included in future updates, so keep an eye out on www.novationmusic.com for update news.

#### 2.3.2 CONTROL MAPS

"Control Map" is the term used for the arrangement of parameters across the Nocturn's controls. It is possible to assign the parameters of whatever you are controlling to the physical controls on the Nocturn in any way. For example, if you are controlling a software synthesizer, you may wish to assign filter cutoff to encoder 1, filter resonance to encoder 2, filter envelope decay to encoder 3 etc. Once you have assigned parameters in the way you want, you can save the arrangement of parameters as a control map, which can be recalled when you next control that software or device, so that the Nocturn's controls remain assigned to those parameters.

#### 2.3.3 PAGES

Although there are a total of 17 assignable controls on the Nocturn (8 encoders, 8 buttons and 1 crossfader), you are not limited to assigning only 17 parameters. A control map can have more than one "page" of controls. You can create a new page and assign all the controls to different parameters, then switch between the new and original pages to access up to 34 parameters. It is possible to create as many pages as you like, or remove them if you have too many. The page + and – buttons can be used to navigate through pages within a control map. It is possible to assign more than one control on the Nocturn to the same parameter, meaning the same physical control can be assigned to the same parameter on different pages of a control map. See section 3.3 for information on adding and removing pages.

#### 2.3.4 CONTROL MAP GROUPS

Each control map will belong to one of four groups, according to the type of client it controls. The four groups are User, FX, Instrument and Mixer. A control map will be automatically assigned to a group, but you can change the group that it belongs to from the Automap Universal window.

The group system allows quicker selection of control maps. If you want to control a certain effect plug-in then you know it will be in the FX group and you will only have to look through the FX control maps to find it, not all control maps. We have given the groups useful names but, since you can assign a control map to any group you like, there is nothing to stop you from using them differently to the way they are labelled. For example, you may wish to control the plug-ins on only four of the tracks in your session, in which case you could assign the control maps so they are separated between the four groups on a track-by-track basis rather than according to the type of client.







#### 2.4 THE AUTOMAP SETTINGS

Once the Automap Server is running, you can access the Automap settings as follows:





**Mac OSX –** Click on the Automap logo in the dock and then select the 'Settings' menu.

🗯 A	Automap Universal	File	Settings	Window	Help	
			✓ Enable	✓ Enable Pot Pickup		
			✓ Automa	✓ Automap Focus Follows Plug-in UI		
			Encode	Encoder Acceleration		
			Window Transparency 🕨			•
			MIDI Output Port		-	
			MIDI In	out Port		
			MIDI Ch	annels		•
			Plug-in	Manager		ЖМ

The following options are available:

**Enable Pot Pickup:** This option applies only to the crossfader. If this is active then the crossfader will not affect the parameter it is assigned to until the physical position of the crossfader matches the current value of the parameter. This stops the parameter value 'jumping' to the position of the crossfader after selecting a different control map.

**Automap Focus Follows Plug-in UI:** This option applies to controlling Automap-enabled (wrapped) plug-ins in your sequencer. If this is active then the Nocturn will automatically map to whichever plug-in you select in your sequencer. If this is not active then you must manually select a different plug-in to control, either by clicking the Automap logo in the bottom left-hand corner of a plug-in window or selecting one from the Browser View of the Automap Universal window.

**Encoder Acceleration:** This option is used to set the encoder acceleration i.e. the relationship between how fast you rotate an encoder and the magnitude of its effect over the parameter you are controlling. The default setting is Medium but this can also be set to Fast (for coarser control) or Off (for finer control).

**Window Transparency:** This option is used to set the transparency of the Automap Universal window (see section 3.2 for further information on the Automap Universal window).







**MIDI Input Port, MIDI Output Port & MIDI Channels:** These options relate to the Automap MIDI Client. See section 5 for further information on using the Automap MIDI Client.

**Control Map:** The options contained in the Control Map sub-menu relate to control maps. These options are found under the 'File' menu on Mac OSX and more information on them is given in section 3.3.

**Plug-in Manager:** This option opens a separate window, the Plug-in Manager, where you can select which plug-ins you want to enable for Automap control.

#### 2.5 THE PLUG-IN MANAGER

It is possible to control any VST, AU or Pro Tools (RTAS & TDM) format plug-in using Automap Universal, however a plug-in must first be enabled for Automap control in the Plug-in Manager. Once enabled it will be "wrapped", meaning that a new version of the plug-in will be created which is contained within the Automap software.

The left-hand list in the Plug-in Manager window shows all plug-ins installed on your system and the right-hand list shows all plug-ins that have been wrapped. To select a plug-in to be wrapped for Automap control simply drag it from the left-hand list to the right-hand list. You can ctrl-click (PC) or command-click (Mac) to select multiple plug-ins in either list. Once you have dragged all plug-ins that you want to wrap, click 'OK' to close the Plug-in Manager window. If you wrap a plug-in whilst your sequencer is running then you will need to restart your sequencer before the wrapped version will be available to use.

#### MAC





When running in Windows, the Plug-in Manager provides options for adding and removing VST folders. Use these to make sure all of your VST plug-in folders appear in the 'VST plug-in folders' list so that all plug-ins are scanned by the Plug-in Manager. On Windows computers only, once a VST plug-in has been wrapped, a new \*.dll file will be created for that plug-in in the same folder as the original plug-in \*.dll file. You can move the new \*.dll file to any location you like on your computer, e.g. to a separate VST plug-ins folder or a subfolder in your current VST plug-ins folder.







# 3. CONTROLLING PLUG-INS WITH AUTOMAP UNIVERSAL

The following sub-sections of this guide focus on using the Nocturn and Automap Universal to control plug-ins. However, much of the information is relevant to controlling sequencer mixers and the Automap MIDI Client. Therefore, we suggest becoming familiar with plug-in control before moving on to the next sections of this guide.

#### 3.1 AUTOMAP-WRAPPED PLUG-INS

An Automap-wrapped plug-in will appear in the list of plug-ins in your sequencer with '(Automap)' after its original name. Load the Automap-wrapped version of a plug-in into your sequencer to allow Automap control over it. The plug-in will look exactly the same as the original version but with an additional Automap border at the bottom of the window.



The Automap border allows access to Automap functions as follows:

# A

**Automap logo switch:** This indicates which plug-in currently has 'Automap focus' i.e. which plug-in can currently be controlled from the Nocturn. It will be red for the plug-in that has Automap focus and white for all other plug-ins. Click it when it is white to turn it red and give Automap focus to that plug-in. It will then automatically turn white on the plug-in that previously had Automap focus. Note that if 'Automap Focus Follows Plug-in Ul' is enabled, simply selecting a different plug-in within your sequencer, with the mouse, will change which plug-in has Automap focus.



**Learn switch (crosshair):** This indicates whether learn mode is currently active or not. It will be red when either Learn Once or Learn Latch is active and white when learn mode is turned off. When it is red you can click it to disable learn mode. When it is white you can click it to activate Learn Once. Learn mode is described in more detail in section 3.6.



**Novation Logo:** When clicked, this opens up a drop-down menu from which you can access some Control Map options. More information is given on these in section 3.3.







#### VStation

**Name Text Box:** This serves two functions. Firstly, immediately after loading a plug-in or giving it Automap focus, it displays the name of that instance of the plug-in. You can change the instance name by clicking on the box, typing in a new name and pressing enter. Secondly, once a control on the Nocturn has been operated, it displays the control name. Once again, you can change the control name by clicking on the box, typing in a new name and pressing enter.



**Max. Number Box:** Displays the maximum value of the last control operated on the Nocturn. To edit the max. value, click on the box, type in a new value and press enter.



**Min. Number Box:** Displays the minimum value of the last control operated on the Nocturn. To edit the min. value, click on the box, type in a new value and press enter.



**Step Size Number Box:** Displays the step size value of the last control operated on the Nocturn. To edit the step size value, click on the box, type in a new value and press enter.

#### ₫

**"Pot" Button:** Sets the max, min and step values for the last control operated on the Nocturn to max=127, min=O and step size=1 so that it has a continuous pot-type response.

#### 

**"Button" Button:** Sets the max, min and step values for the last control operated on the Nocturn to max=1, min=O and step size=1 so that it has a toggle (on/off) button-type response.

See section 3.7 for more details on individual control settings.

#### 3.2 THE AUTOMAP UNIVERSAL WINDOW

The Automap Universal Window allows viewing of control assignments, control maps and help information. This window can be opened by:

- Launching the Automap Server
- Selecting 'Interactive Help' from the Automap Universal Help menu (Mac) or Automap settings menu (PC)
- Pressing either the View, User, FX, Inst. or Mixer buttons on the Nocturn

The window opens over all other currently open windows. It cannot be moved to the background, however you can set it to be semi-transparent from the Automap settings menu (see section 2.4). The window can be closed by:

- Clicking the close icon in the top corner of the window
- Pressing the View button on the Nocturn

The window can be resized to be as big or small as you like. There are three different views – Control Map View, Browser View and Help View.







#### 3.2.1 CONTROL MAP VIEW

Name: Group:	VStation Inst.	V-Sta	tion - Novation Preset 1/400: Bass1	DMS	Learn: Off Page 1/3
FitFreq 59	FilterRe 38	FEnvAmnt 60 FLfoAmnt 0	<b>I</b>	Lfo1Spee 70	$ \begin{array}{c}                                     $
	FltSlope 24dB			Lfo1Wave triangle	Lfo2Wave triangle
Max:	127 Min	: 0 Step: 1	Parameter:		filter frequency
				no	vation®

To open the Automap Universal window in Control Map view, ensure an Automap-wrapped plug-in has Automap focus and then press the 'View' button on the Nocturn. The Automap Universal window will open and show the current control map as shown above. The window is divided into three sections: the control map info at the top, the control layout in the middle and the individual control settings at the bottom:

#### Control Map Info

This section shows the following info about the control map:

**Name –** This is the control map name as it will appear in Browser View. You can change the control map name by clicking on it, typing in a new one and then pressing enter.

**Group –** This is the 'control map group' to which the control map belongs. There are four control map groups – User, FX, Instrument and Mixer. You can assign a control map to any one of these by clicking on the group and selecting a different one from the drop-down menu. Control maps for FX plug-ins will automatically be put in the FX group and control maps for instrument plug-ins in the Instrument group.

Client name - This is shown in the middle of the info section and tells you what the Nocturn is currently controlling.

**Preset name and number –** This is shown below the client name, where available.

**Learn –** This indicates whether learn mode is set to Off, Learn Once or Learn Latch. You can change the learn mode state by clicking on the learn mode box and selecting a different option from the drop-down menu, as an alternative to pressing the learn button on the hardware of course. The info section will change colour when learn mode is active (dark red for Learn Once and bright red for Learn Latch).

**Page –** This shows the number of the currently displayed page and the total number of pages of the selected control map. Use the page buttons on the Nocturn to select a different page.







When you operate a control on the Nocturn, the client name and preset name will change to show the control name and parameter value. This allows you to resize the Automap Universal window to show just the control map info and still be able to see the name and value of the parameter you are controlling:

Name:	VStation	Filter Frequency	Learn: Off
Group:	Inst.	75	Page 1/3

The encoders and crossfader are touch-sensitive and need only be touched, not moved, to display the control name and parameter value in the control map info section. This means you can preview the control name and parameter value without altering the parameter.

#### **Control Layout**

This shows the controls on the hardware, their names and current values. To rename a control, simply click on the control name, type in a new one and press enter. To clear a control of its current parameter assignment, click on it and press backspace or delete.

The crossfader may appear red instead of white. Red indicates that the current position of the crossfader does not match the value of the parameter it is assigned to (see 'Enable Pot Pickup' in section 2.4).

#### **Control Settings**

This section shows the settings for the currently selected control (also available from the Automap border in the plug-in window). Click on a control to display its settings in this section. You can enter new max, min and step values by clicking on the current value, typing in a new one and pressing enter. It is also possible to change which parameter the currently selected control is assigned to by clicking on the parameter name and selecting a different one from the drop-down menu.

#### 3.2.2 BROWSER VIEW



To open the Automap Universal Window in Browser View, press one of the control map group buttons (User, FX, Inst or Mixer) on the Nocturn. The Automap Universal window will then appear as shown above. All available control maps in the selected group are shown in the order of most recently used, starting from the left. The currently selected control map, if in that group, will be highlighted red. You can select a control map by clicking on it with the mouse or by touching/pressing the corresponding encoder/button on the Nocturn. Selection from the hardware allows you to switch between different control maps without using the mouse at all.

If you have lots of Automap-wrapped plug-ins loaded in a session, there may be more than one page of control maps available in Browser View. Use the page buttons on the Nocturn to navigate through pages of control maps. The current and total page numbers are shown in the top right-hand corner of the window.





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#### 3.2.3 HELP VIEW



To open the Automap Universal window in help view, select 'Interactive Help' from the Automap Universal 'Help' menu (Mac) or from the Automap settings menu (PC). Also, if you press the 'View' button on the Nocturn when no control map is selected, the Automap Universal window will open in help view. Click on the linked red words to navigate to other pages of the interactive help.

#### **3.3 CONTROL MAP OPTIONS**

The control map options can be accessed as follows:

Windows - click on the Automap logo in the system tray and select the 'Control Map' sub-menu:



Mac OSX - click on the Automap logo in the dock and then select the 'File' menu:

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🗯 Automap Universal	File Settings Window Help	
	Open	жо
	Save As	жs
	Add New Page	ЖP
	Remove Current Page	企ℋP
	Clear All Controls	
	Set As Default Control Map for this Client	ЖD
	Rebuild Control Map	ЖR
	Import Control Maps	
	Export Control Maps	





Some of the control map options are also available from the drop-down menu that appears when you click on the Novation logo on the Automap border of an Automap-wrapped plug-in:



Here is a quick guide to each of the options. See the following sections for further information on them.

- Learn Once (only available from border menu): When this is active you can alter a plug-in parameter with the mouse and then operate an assignable control on the Nocturn to assign the parameter to it. Learn mode will automatically be disabled after one control has been assigned.
- Learn Latch (only available from border menu): This is the same as Learn Once but learn will not be automatically disabled after learning one control and you can continue learning controls as described above. You must remember to disable learn mode manually after you have finished learning controls. To do this either deselect it from the menu, click the Learn Switch (crosshair), press the 'Learn' button on the Nocturn or select a different control map.
- **Open...:** Select this to open a previously saved control map for the selected plug-in from a \*.automap file.
- Save As...: Saves the current control map for the selected plug-in to a \*.automap file.
- Add New Page (not available from border menu): Adds another page of assignable controls to the control map. You can create as many pages as you like.
- **Remove Current Page (not available from border menu):** Removes the currently selected page from the control map. Use the page buttons on the Nocturn to change the currently selected page.
- **Clear All Controls:** Clears all controls that are assigned to the plug-in with Automap focus. This should be used when you want to completely re-assign all controls in your own custom way.
- Set As Default: Saves the current control map for the selected plug-in as the default control map that loads when you subsequently open an instance of that plug-in.
- **Rebuild Control Map:** Rebuilds the control map from the order in which parameters are exported by the plug-in.
- Import/Export Control Maps (not available from border menu): These options allow you to import or export all default and instance mappings in the form of a single \*.mappings file. See section 3.5 for further info on default and instance mappings and where these options are useful.

#### 3.4 PLUG-IN PARAMETER LAYOUT

When you open an Automap-wrapped plug-in for the first time, the plug-in parameters will be mapped to the controls on the Nocturn in the order in which they are exported by the plug-in. It is unlikely that this order will be intuitive and you will probably want to clear some or all controls and re-assign them in a more organised way. You can then use the 'Set As Default' option so that your control map is recalled whenever you subsequently open an Automap-wrapped instance of that plug-in.

We have already created default control maps for some popular plug-ins. These maps are installed on your system by the Nocturn installer in the location given in section 3.5. If you open an Automap-wrapped instance of a plug-in for which we have created a default control map, the parameters will be mapped to the Nocturn in the order in which we programmed them rather than the order in which they are exported by the plug-in. See the end of this guide for the parameter mapping conventions used for different types of plug-in.







#### 3.5 DEFAULT AND INSTANCE CONTROL MAPS

When you use the 'Set As Default' option, the Automap Server saves the current control map as a \*.automap file, named according to the plug-in it was created with, in the following location:

Win XP - C:\Documents and Settings\(your user name)\Local Settings\Application Data\Novation\Automap Universal\ Mappings\Nocturn

Win Vista – C:\Users\(your user name)\Local\AppData?\Novation\Automap Universal\Mappings\Nocturn Mac OSX – /Library/Application Support/Novation/Automap Universal/Mappings/Nocturn

That control map will then be recalled every time you load an instance of the corresponding plug-in into a sequencer session. This is a 'default' control map.

If you edit the default control map for a plug-in after loading it into a session, the Automap system will automatically store the new control map without you having to use the 'Save As...' or 'Set As Default' options. This is an 'instance' control map and it will only be recalled for that instance of the plug-in in that particular session. When you next load the session, all changes you made to the default control map for that and any other plug-in instance will automatically be recalled.

The default and instance control maps make up the content of the \*.mappings file which is created when you use the 'Export control maps' option. If you transfer a session that uses Automap-wrapped plug-ins from one computer to another then, after importing the \*.mappings file, both the default control maps and any changes you made to them in the session (i.e. the instance control maps) will be recalled.

#### 3.6 EDITING A CONTROL MAP

#### **3.6.1 CLEARING PARAMETERS**

To clear a parameter from one of the Nocturn's controls, simply open up the Automap Universal Window in Control Map View, select the control you want to clear and press backspace or delete. If you want to completely change how the parameters of a plug-in are mapped to the Nocturn then use the 'Clear All Controls' option (see section 3.3) so that you can start creating a control map from scratch.

#### **3.6.2 LEARNING PARAMETERS**

To map a software parameter to a control on the Nocturn, activate either Learn Once or Learn Latch. Next, use the mouse to alter the parameter you want to assign and then touch or operate the control on the Nocturn that you want to assign it to. The parameter will then be mapped to that control. Learn Once and Learn Latch can be activated in one of the following four ways:

- Selecting Learn Once or Learn Latch from the drop-down menu which appears when you click the Novation logo on the Automap border
- Clicking the crosshair on the Automap border (this activates Learn Once)
- Selecting Learn Once or Learn Latch from the drop-down menu which appears when you click on the learn state in the Control Map Info section of the Automap Universal window (when in Control Map View).
- Pressing the 'Learn' button on the Nocturn. Repeated presses of the 'Learn' button cycle through Learn Once, Learn Latch and Off. The 'Learn' button will light when learn mode is active.

If you use Learn Latch (instead of Learn Once) then you can continue assigning parameters by altering them with the mouse and operating a control on the Nocturn until you turn learn mode off (don't forget to turn it off once you are done assigning!). Note that it is possible to assign more than one control on the Nocturn to the same software parameter.







#### 3.7 CONTROL SETTINGS - NAME, RANGE AND STEP SIZE

The name, max, min and step size settings are available to edit from both the Automap border and Control Map View of the Automap Universal window. You can edit these settings by clicking on them with the mouse, typing in a new name/value and pressing enter.

When you first load an instance of an Automap-wrapped plug-in, or immediately after a plug-in is given Automap focus, the Name box on the Automap border shows the instance name of that plug-in, as it appears in Browser View of the Automap Universal window. It may be useful to change the name of the instance so you can differentiate it from another instance of the same plug-in. For example, you may have two instances of the Novation Bass Station soft-synth in your project, one playing a bass line and another playing a lead line. Naming them 'BS-Bass' and 'BS-Lead' would allow you to see which one is which when you select a different plug-in to control from the Browser View of the Automap Universal window. All instance names are automatically stored when you close a sequencer project and will be recalled when you next open that project.

Once a plug-in has been given Automap focus, simply operate any control to bring up its name, max, min and step size settings in the Automap border. In the Automap Universal window, you must select a control with the mouse to bring up its max, min and step size settings. If the control is not assigned to a parameter then no settings will appear.

The max, min and step size values have a different effect depending on whether the control is an encoder, button or the crossfader.

**Encoders:** When an encoder is first assigned, the values will generally be set to max=127, min=O, step size=1. The difference between the max and min values determines how sensitive the encoder is and these settings will give an average sensitivity. Since it is the difference between the max and min values and not their absolute values that determine sensitivity, the values can be anything you like. We recommend leaving the min value set to O and the step size value set to 1, you can then simply edit the max value to change the encoder sensitivity. A higher max value will give finer control over a parameter and a lower max value will give coarser control.

If you want the encoder action to be reversed so that it changes the parameter from min to max as you rotate it anticlockwise, swap the max and min values around. If you want the encoder to have its O position in the centre of the LED ring instead of fully left, enter a negative number for the Min value. Typical settings would be max=63, min=-64 and step size=1. This is useful for parameters such as pan and EQ gain.

**Buttons:** When a button is first assigned, the values will generally be set to max=1, min=O and step size=1. The difference between the max and min values determines the number of button presses required to change the parameter from its minimum value to its maximum value and these settings will give the button a toggle (on/off) type action.

If the assigned parameter is a switch-type with more than two states e.g. filter type switchable between low-pass, band-pass and high-pass, enter a higher max value. For the example given, a max value of 2 will cause the button to switch between the three filter types.

If the assigned parameter is a continuous type e.g. filter cutoff, the button can be used to step up through the parameter range. With the min value set to O and step value set to 1, you can simply adjust the max value to determine the number of button presses it takes to step up through the whole parameter range. If you want the button action to be reversed so that it steps down through the parameter range, swap the max and min values around.

Setting the step value to O will give the button a momentary type action. This means it will cause the parameter to go to its maximum value when pressed and minimum value when released. This may be useful for quickly toggling an effect such as a beat masher on/off in real time.

**Crossfader:** When the crossfader is first assigned, the values will generally be set to max=1, min=O and step size=1. The crossfader has a fixed sensitivity so the difference between the max and min values will have no effect over it. If the min value is made larger than the max value, the action of the crossfader will be reversed, i.e. it will change the parameter value from min to max as you move it from right to left.







#### 3.8 SAVING A CONTROL MAP

When you have finished clearing controls, assigning parameters and adjusting control settings, you can save the control map. To save it as the default control map, which loads when you open an Automap-wrapped instance of that plug-in, use the 'Set As Default' option.

It is possible to save the control map without making it the default control map. An example of where this would be useful is when using Native Instruments' Reaktor, where you may use different control maps for the different ensembles available within Reaktor, and a single default control map is not useful. Use the 'Save As...' option to save a control map as a \*.automap file to any location on your computer.

Whether you use the 'Set As Default' or 'Save As..' option to save a control map, the name, max value, min value, step size value and parameter assigned to each control will be stored. The instance name (see section 3.7) is not stored. Instance names for all Automap-wrapped plug-ins in a sequencer project are stored automatically when you close the project and will be recalled when you next load it. It is not necessary to save individual control map instances of plug-ins as they are saved within your sequencer session.

To load a previously saved control map, you must first load an Automap-wrapped instance of the plug-in it was created with. This will automatically load the default control map for that plug-in. Ensure the plug-in has Automap focus and then use the 'Open...' option to load the previously saved control map.

#### 3.9 THE SPEED DIAL

The Speed Dial can be pushed in and rotated to select presets on the plug-in with Automap focus. This will only work where a plug-in uses the host's preset system. Some plug-ins, often those with lots of presets, have their own built-in preset system. If this is the case, preset navigation from the Speed Dial will not work. The currently selected preset name and number are shown in the Control Map View of the Automap Universal window.

The Speed Dial can also be used to control any parameter currently displayed on your screen. All you need to do is rest the mouse cursor over that parameter and then rotate the Speed Dial (without pushing it in). This applies to absolutely anything you can change with the mouse, including scrolling windows, searching through drop-down menus etc.

### 4. CONTROLLING A SEQUENCER MIXER WITH AUTOMAP UNIVERSAL

At the time of writing, only the following sequencers support Automap Universal Mixer Control:

Cakewalk Sonar (6.2 or later) Mackie Tracktion (3 or later) Steinberg Cubase (SX3/SL3/SE3/LE4 or later) Steinberg Nuendo (3 or later)

Make sure that you have the latest updates for your sequencer installed before setting up Automap mixer control. Support for other programs will be included in future updates so keep an eye on www.novationmusic.com for update news.

You will need to follow the relevant set up instructions for your sequencer, given in sections 4.1 to 4.3. After you have done so, a control map for your sequencer mixer will appear in the Mixer group of control maps. This control map will appear each time you subsequently start your sequencer and disappear when you quit it. Only one control map can be used to control a sequencer mixer – you cannot create more control maps for the same sequencer mixer. However, remember that, as with any other control map, you can create as many pages in the mixer control map as you like.

The default parameter mapping for the mixer control map is track levels assigned to the encoders and track mutes to the buttons. If there are more than 8 tracks in the currently loaded project, the control map will have extra pages to accommodate them.







When using the Nocturn to control a sequencer mixer, you can clear and assign parameters just as you would when controlling a plug-in, as described in section 3.6. Only the following mixer parameters can be assigned:

Track level Track pan Mute Solo Record Arm Send level

After clearing and learning parameters, you can use the 'Set As Default' feature to save the current control map as the default mixer control map that loads when you open or start a new a sequencer project. Any changes to the default mixer control map are not automatically saved with the project though. If you change the default mixer control map to suit the needs of a particular project then you must save the control map using the 'Save As...' option before closing the project. After reopening the project, select the mixer control map from the Browser View of the Automap Universal window and then use the 'Open...' option to load the previously saved mixer control map.

#### 4.1 CUBASE AND NUENDO SETUP

- 1. Launch the Automap Server and connect the Nocturn to your computer.
- 2. Launch Cubase/Nuendo and select 'Device Setup' from the 'Devices' menu.
- 3. In the 'Device Setup' window, click the '+' button and select 'Novation Automap Universal' from the drop-down menu.
- 4. Leave the 'MIDI Input' and 'MIDI Output' options set to 'Not Connected'.
- 5. Click 'OK' to close the 'Device Setup' window, then open a project and start controlling!

- 14	Novation Automap Univers	al
MIDI Machine Control Slave	Not Connected	▼ MIDI Input
Time Display	Not Connected	MIDI Outpu
CM Motormix		
Generic Remote	Enable Auto Select	
JLCooper CS-10		
JLCooper MCS-3000		
Mackie Baby HUI		
Mackie Control		
Mackie HUI		
Novation Automap Universal		
Radikal SAC-2k		
Roland MCR8		
Steinberg Houston		
Tascam DM-24 (HUI)		
Tascam US-428		
Yamaha 01v		
Yamaha 01v96v2		
Yamaha 01x		
Yamaha 02r96v2		
Yamaha DM 1000v2		Pasat ) ( Analy
Yamaha DM 2000v2	neip	Appiy
Yamaha DM2000		

The 'Enable Auto Select' option shown in the above screenshot allows automatic selection of a track in Cubase/Nuendo when you adjust the level of that track from the Nocturn. Press and rotate the Speed Dial to select the send bank (1-8) that any encoders assigned to 'send level' will control. The currently selected send bank is shown in place of preset name/ number in the Control Map view of the Automap Universal window.







#### 4.2 SONAR SETUP

- 1. Launch the Automap Server and connect the Nocturn to your computer.
- 2. Launch Sonar and select 'Controllers/Surfaces...' from the 'Options' menu.
- 3. In the 'Controllers/Surfaces' window, click the star icon to add a new control surface.
- 4. The 'Controller/Surface Settings' window will appear. Set the Controller/Surface to 'Novation Automap Universal' and set the Input Port and Output Port to '---None---'.
- 5. Click 'OK' and close the 'Controllers/Surfaces' window, then open a project and start controlling!

Controller/Surface	In Port	Out Port	A	W	WAI color		Help
	Controller/	Surface Settings			×	*	
	Controller/S	urface		ж	1	×	
	ACT MIDI	Controller 📃		neel			
	ACT MIDI Tascam US	Controller 5-428		ncei			
JoystickPanner		nner Generic Surface	H	elp		l mar	
WAI Display	RedRover	denenc Sunace				Impo	rt AUT Data
Track View 🔽 🖸	ionsole ( L.M. Labs Mackie Co Edirol PCR	MotorMix ntrol C4 -M30	MIDI Devic	es	1	MIE	)I Devices
	Novation A	utomap Universal	e				
	Radikal Te	chnologies SAC-2K					
	Edirol PCR MMC	-300					
	Mackie Co Mackie Co	ntrol XT					

When controlling the bus send level of a track in Sonar, it is only possible to assign controls on the Nocturn to bus send level 1. Bus send levels 2-4 cannot be learned to controls on the Nocturn.

#### 4.3 TRACKTION SETUP

- $\ensuremath{\mathsf{1.}}$  Launch the Automap Server and connect the Nocturn to your computer.
- 2. Launch Tracktion and go to the 'Control Surfaces' page of the settings.
- 3. Select 'Novation Automap Universal' in the 'Supported Control Surfaces' list and click 'Enable' in the properties panel.
- 4. Open a project and start controlling!

projects	settinos	test Edit 1			
projecta		test sort a			
		Supported control surfaces:			
	audio	Mackie Control Universal			
	1000	Mackie C4		< no drate selected >	
	midi	Frontier Design Group Tranzport	< no device selected >	< no device selected >	
		Frontier Design Group AlphaTrack			
	user interface	Novation Automap Universal			
	chucies				
	pindus				
	loop settings				
	file settings				
	key-mappings	C			
		add custom control surface	2		
	control surfaces				
	13 Novat	ion Automap Universal			
	( enab	e .			
	O colou	r selection colour			
	(O map)	native filters			1 6 3

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The 'Map Native Filters' and 'Map VST Plug-ins' options shown in the properties panel allow you to control Tracktion's native filters and also non-Automap-wrapped VST plug-ins running in Tracktion. This is not the same as controlling Automap-wrapped VST plug-ins, which can also be loaded into Tracktion, because the Nocturn is communicating with the filters and VST plug-ins through both the Automap Server and Tracktion, rather than just through the Automap Server. This has certain implications that are explained below.

When these options are enabled, a control map will be added to one of the four control map groups when you add a new native filter or non-wrapped VST plug-in. It will be put in the correct group, according to whether the filter is an instrument, effect or something else (e.g. an aux send filter will be put in the 'user' group). You can select different filters or VST plug-ins (wrapped and non-wrapped) to control from the Browser View of the Automap Universal window. If 'Automap Focus Follows Plug-in UI' is enabled in the Automap settings (see section 2.4), you can also select different filters and VST plug-ins to control by simply clicking on them in the main Tracktion window. Click on a volume/pan filter to select the Tracktion mixer control map.

When controlling native filters and non-wrapped VST plug-ins, you can clear and assign controls as described in section 3.6. However, saving of default and instance control maps will not work (see section 3.5). If you change the control map for a native filter or non-wrapped VST plug-in, you must use the 'Save As...' option to save the control map before quitting the project. After reloading the project you will need to select the control map for that filter/plug-in and use the 'Open...' option to load the previously saved control map for it.

# 5. THE AUTOMAP MIDI CLIENT

"Client" is the term used for anything you can control using the Nocturn. This guide has so far been concerned with controlling plug-ins and sequencer mixers, which are both a type of 'client'. The Automap MIDI Client is something else you can control using the Nocturn. It is software that runs in the background on your computer and communicates with the Automap server. When you control it using the Nocturn, it sends MIDI messages to a destination of your choice. This allows you to use the Nocturn to control software and hardware using standard MIDI messages. The Automap MIDI Client can also receive MIDI data which has benefits explained in sections 5.4 and 5.7.

This section gives a guide to how the Automap MIDI Client works, followed by some examples of how you can use it. After going through them you should have enough understanding of how the Automap MIDI Client works to be able to set it up in the way you need it to work.

#### 5.1 MIDI PORTS

Before using the Automap MIDI Client, you must select the MIDI input port and MIDI output port from the Automap settings menu. These are the ports that the MIDI Client will receive and send MIDI data on and you can select any physical MIDI port on your system.

In Mac OS X, you will also see an 'Automap MIDI' port. This is a special virtual port which can be used to send MIDI data between the Automap MIDI Client and a software application. Consequently you will also see 'Automap MIDI' appear as an available MIDI input and output port in your music software. The virtual Automap MIDI port will only be available when the Automap Server is running. You must launch the Automap Server before launching your music software so that your music software can establish a connection to it as it launches. If you quit the Automap Server whilst your music software to re-establish the connection.

An option for 'All MIDI ports' has been included in the MIDI input ports list, for when you want the Automap MIDI Client to receive on all available MIDI ports, including the virtual Automap MIDI port.







#### 5.2 MIDI CONTROL MAPS

Once you have selected the MIDI ports, you can create a MIDI control map. All controls in a MIDI control map will send data on the same MIDI channel. You must therefore select which MIDI channel you want the controls to send data on by selecting that channel from the Automap settings menu. A check (tick) will appear next to the selected MIDI channel in the menu to show it is active and a MIDI control map assigned and named according to that channel will appear in the User control map group.

It is possible to activate more than one MIDI channel – in fact you can activate all 16. Therefore, a total of 16 MIDI control maps can be created. To activate another MIDI channel, select it from the Automap settings menu. Another MIDI control map for the newly selected MIDI channel will be added to the User group. To deactivate a MIDI channel and remove its control map, deselect it from the Automap settings menu so there is no check next to it.



#### 5.3 ASSIGNING MIDI MESSAGES

The Control Map View of the Automap Universal window will look as follows when a MIDI control map is selected: The default MIDI control map has 129 assigned controls across multiple pages. Each control is assigned to a different MIDI Control Change (CC) number, starting from O and going up to 127, plus an extra control at the end assigned to pitch bend. This is how the controls will be mapped when you activate a MIDI channel. However, you can change the default MIDI control map by reassigning the controls and using the 'Set As Default' option.

To change the MIDI message that a control is assigned to, click on it with the mouse and then select a different message from the drop-down menu which appears when you click on the 'Parameter' box in the control settings section of the window. Only MIDI CC 0-127 and pitch bend messages are available. The controls will be named by default with the MIDI message they are assigned to send. However, you can change the control name to whatever you like by clicking on it in the control layout section of the window, typing in a new name and pressing enter. The max, min and step size values will have the same effect over the parameter you are controlling as described in section 3.7.

#### 5.4 USING LEARN MODE TO ASSIGN MIDI MESSAGES

Since the MIDI client can receive MIDI data, it is possible to use learn mode to assign MIDI messages to controls on the Nocturn. When learn mode is active, the Automap Server will listen for MIDI messages on the MIDI Client's MIDI input port. It will only listen for the messages which can be assigned to Nocturn controls i.e. MIDI CC and pitch bend messages. After a MIDI message is received, simply operate a control on the Nocturn to assign it to that message.







#### 5.5 SAVING A MIDI CONTROL MAP

Once you have finished clearing, assigning and renaming controls you can save the MIDI control map to a \*.automap file using the 'Save As...' option. When you activate a MIDI channel, you can load in a saved control map using the 'Open...' option (the MIDI channel is not stored with the MIDI control map). If you use the 'Set As Default' option then that MIDI control map will be recalled every time you activate a MIDI channel from the Automap settings menu.

When you quit the Automap Server, the MIDI input and output port settings, the currently active MIDI channels and all control assignments in their MIDI control maps are automatically stored. On launching the Automap Server again all Automap MIDI Client settings and MIDI control maps will be restored. This means that if you have a permanent music-making set up, you do not have to worry about re-activating MIDI channels or importing MIDI control maps every time you sit down to make music.

#### 5.6 SPEED DIAL FUNCTION IN A MIDI CONTROL MAP

Just as when you are controlling a plug-in or sequencer mixer, the Speed Dial can be used to control any parameter currently displayed on your screen by resting the mouse cursor over that parameter and then rotating the Speed Dial (without pushing it in).

Additionally, when a MIDI control map is selected, the Speed Dial can be pushed in and rotated to send MIDI program change messages. The MIDI program change value is shown below the client name in the Control Map View of the Automap Universal window (where preset name/number is shown for plug-ins).

#### 5.7 MIDI FEEDBACK

MIDI feedback support is another benefit that comes from the Automap MIDI Client being able to receive MIDI data. As an example, if you are controlling a hardware synth and you operate an encoder on the Nocturn to alter a synth parameter, the LED ring around the encoder will reflect the current parameter value since the Automap Server knows the current value of the parameter.

If you altered the same parameter from the synth itself, without MIDI feedback the Automap Server would have no way of knowing the current value of the parameter, and the LED ring around the encoder would not reflect the current parameter value. Setting the Automap MIDI Client to receive MIDI data from the synth (by selecting the synth or 'All MIDI ports' as the MIDI Input) ensures MIDI data from the synth is fed back to the Automap Server through the Automap MIDI Client and the LED ring will always reflect the current parameter value, even if you alter the parameter from the synth itself.

#### 5.8 USING THE AUTOMAP MIDI CLIENT TO DIRECTLY CONTROL A HARDWARE MIDI DEVICE

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In this situation the flow of data is as follows:



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As there is no sequencer in the communication chain, it is possible to use the Nocturn to control a hardware MIDI device without any music software running on your computer. All you need to ensure is that the Automap Server is running, then you can control any hardware MIDI device connected to your system as follows:

- 1. Set the MIDI input and output ports in the Automap settings menu to the physical ports that the hardware MIDI device is connected to.
- 2. Activate a MIDI channel from the Automap settings menu. The MIDI channel you choose must be the same channel that the hardware MIDI device is set to send and receive MIDI data on. You may need to check the MIDI channel settings on the hardware device.
- 3. Select the newly added MIDI control map from the Browser View of the Automap Universal window and start controlling!

To start reassigning the controls into a more useful layout you will need to know which CC numbers control which parameters on the hardware device. This information can usually be found towards the end of the user guide for any hardware MIDI device. If you want to control a particular parameter first look up which MIDI CC number it is assigned to. Next select a control on the Nocturn in the Control Map View of the Automap Universal window and set it to send that same CC number. Continue to assign controls in this way to create a MIDI control map for that hardware MIDI device, which you can save using the 'Save As...' option.

Remember that it is also possible to use learn mode when using the Automap MIDI Client (see section 5.4). You can simply press the 'learn' button on the Nocturn, operate a control on the hardware MIDI device and then operate the control on the Nocturn to which you want to assign that parameter. Provided that the data sent by the hardware MIDI device was MIDI CC or pitch bend data, the control will be assigned.

#### 5.9 USING THE AUTOMAP MIDI CLIENT TO CONTROL A HARDWARE MIDI DEVICE THROUGH A SEQUENCER

It is most likely that you will be using a sequencer running on your computer, in which you will have MIDI tracks set up to control and record from your hardware MIDI devices. If this is the case then it is best to set up the Automap MIDI Client to control your hardware MIDI devices through the sequencer rather than directly. To do this, follow these steps:

- 1. Set the MIDI output port for the Automap MIDI Client to 'Automap MIDI' and the MIDI input port to 'All MIDI Inputs' in the Automap settings menu.
- 2. Activate a MIDI channel from the Automap settings menu. The MIDI channel you choose must be the same channel that the hardware MIDI device is set to send and receive MIDI data on.
- 3. In your sequencer, make sure that the MIDI track for the hardware MIDI device is set to receive data from both the virtual Automap MIDI port and the physical MIDI port that the device is connected to. There may be an 'AII MIDI Inputs' option or it may be set to accept MIDI data from all inputs by default either of these will work fine. The track's MIDI output should be set to the physical port that the device is connected to and the MIDI channel set to the same one enabled in step 2.
- 4. Record enable the MIDI track, or turn monitor on, and select the newly added MIDI control map from the Browser View of the Automap Universal window, then start controlling!

You can now reassign and learn controls exactly as described in section 5.8. If you have more than one hardware MIDI device you wish to control from the Nocturn, follow steps 2-4 for each device. When you want to switch from controlling one device to another you will need to record enable the correct track in your sequencer and then select the correct MIDI control map from the Browser View of the Automap Universal window.







# 5.10 USING THE AUTOMAP MIDI CLIENT TO CONTROL SOFTWARE PLUG-INS IN A SEQUENCER

It is possible to use the Automap MIDI Client to control plug-ins running in your sequencer, however this only applies to MIDI-enabled plug-ins. All instrument plug-ins are MIDI-enabled but some effect plug-ins are not, e.g. compressors and EQs. To control a plug-in, follow these steps:

- 1. Set the MIDI output port for the Automap MIDI Client to 'Automap MIDI' in the Automap settings menu.
- 2. Activate a MIDI channel from the Automap settings menu.
- 3. Ensure that the virtual Automap MIDI port is set as (one of) the input(s) to the MIDI or instrument track for the plug-in you want to control.
- 4. Record enable the MIDI/instrument track, or turn monitor on, and select the appropriate MIDI control map from the Browser View of the Automap Universal window, then start controlling!

MIDI-enabled plug-ins can receive MIDI data but do not send out MIDI data. This means you will not be able to use the Automap learn mode to learn plug-in parameters to controls on the Nocturn, as you can with hardware MIDI devices. Instead, you must look in the plug-in documentation to find which MIDI CC number a parameter is assigned to, then, in the Control Map View of the Automap Universal window, select a control on the Nocturn and set it to send that same CC number.

Many plug-ins have their own MIDI CC learn feature where you can set the plug-in to listen for incoming MIDI CC messages, to which it can assign its parameters. If this is the case then you do not need to worry about what MIDI messages the controls on the Nocturn are set to send. Simply enable learn mode in the plug-in, select which parameter you want to control and then operate the control on the Nocturn you want to assign to it. You will need to consult the documentation for the plug-in to find out how to use its learn mode and save its MIDI mapping.

The fact that MIDI-enabled plug-ins do not send out MIDI data also means that MIDI feedback will not work when using the Automap MIDI Client to control plug-ins, i.e. when you change a plug-in parameter using the mouse or automation within the sequencer, the encoder or button LEDs on the Nocturn will not alter to reflect that change.

#### 5.11 USING THE AUTOMAP MIDI CLIENT TO CONTROL A SEQUENCER MIXER

For sequencers that do not support Automap Universal mixer control it may be possible to use the Automap MIDI Client to control the mixer, since many sequencers allow you to assign MIDI CC messages to mixer parameters. The following steps use Ableton Live to show how the Automap MIDI Client can be used to control mixer parameters, as Live features a simple MIDI learn system. For other sequencers you will need to consult the documentation for further information on assigning MIDI CC messages to mixer parameters.

- 1. Set the MIDI input and output ports for the Automap MIDI Client to 'Automap MIDI' in the Automap settings menu. If you will also be using the Automap MIDI Client to control hardware MIDI devices, set the MIDI input port to 'All MIDI Inputs'.
- 2. Activate a MIDI channel from the Automap settings menu and select the newly added MIDI control map from the Browser View of the Automap Universal window.
- 3. Enable the virtual Automap MIDI port as a remote input and output in the Live MIDI/Sync preferences. If you will be using the Automap MIDI Client to control hardware MIDI devices or plug-ins, enable Automap MIDI as a track input too.







Look Feel	Control Surface	Input	Output	
1	None 👻	None 👳	None   Dump	
Audio 2	None 👳	None 👳	None 🗢 Dump	
3	None 👳	None 👳	None v Dump	
MIDI 4	None 🗢	None 🗢	None v Dump	
Sync 5	None 🗢	None 👳	None v Dump	
File 6	None 🗢	None 👳	None   Dump	
Folder	Takeover Mode	None 👳		
Record				
Warp	MIDI F	Ports	Track Sync Remote	
Launch	Input: Automap MI	DI	On Off On	
CPU	Output: Automap Mil	DI	Off Off On	
Products				
Live Packs				

- 4. Enable Live's MIDI learn mode by clicking 'MIDI' in the top right-hand corner of the Live window. Click on a parameter in Live to select it and then operate a control on Nocturn that you want to assign it to.
- 5. Continue to assign controls as described in step 4. When you are finished, click 'MIDI' again to disable Live's MIDI learn mode.

Since Live allows you to specify the Automap MIDI port as a remote output, MIDI feedback will work correctly when using the Automap MIDI Client to control Live and the encoder and button LEDs on the Nocturn will reflect any parameter changes made with the mouse or automation. Many other sequencers also support MIDI feedback in this way.

## 6. SPECIFICATIONS

#### **General**:

Power supply: USB bus-powered only Size: W=239mm (9.41"), H=137mm (5.39"), D=18-28mm (0.7"-1.1") Weight: 0.5 kg (1.1 lbs)

#### **Controls**:

8 Assignable Rotary Encoders - infinite rotation, non-detented, touch-sensitive, LED surrounds
Speed Dial Encoder - infinite rotation, detented, touch-sensitive, LED surround, push button
(press and rotate for alternate function)
8 Assignable Buttons - LED backlights
Assignable 45mm Crossfader - touch sensitive
System Buttons (LED backlights): Learn, View, Page +, Page Group Buttons (LED backlights): User, FX, Inst, Mixer

**Interfacing:** USB (USB1.1 and USB2.0 compatible)

#### **Computer OS requirements:**

Mac: OSX 10.4 or greater. 10.5 (Leopard) also supported. Windows: XP with service pack 2, XP X64 or Vista. Vista 32-bit and 64-bit editions are supported.

#### Minimum computer spec:

Mac: G4/1GHz, 256MB RAM PC: Pentium 3/1GHz, 256MB RAM (machines running Windows Vista will require higher spec)







# 7. PLUG-IN PARAMETER MAPPING CONVENTIONS

This section shows the parameter mapping conventions used by Novation to create default control maps for different types of plug-in. They are designed to give easy access to the most important parameters of a plug-in and serve as a good starting point for creating your own default control maps.

#### EQ









#### DYNAMICS



PAGE 1 MAIN COMPRESSOR CONTROLS



PAGE 2 SIDE CHAIN CONTROLS

#### DELAY



PAGE 1 DELAY CHANNEL 1 (LEFT)







#### DELAY (CONT.)



PAGE 2 DELAY CHANNEL 2 (RIGHT)

#### REVERB







novation<sup>®</sup>

#### VA SYNTH









#### AMP SIM



E & O.E





