Mackie Control and Nuendo

NUENDO 4
Advanced Audio and Post Production System

steinberg
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1

Introduction
Introduction

About this chapter

This chapter describes the Steinberg-specific layout for Mackie Control, and also provides information regarding the Mackie Control XT 8 channel extender unit.

The Steinberg layout for Mackie Control

An overlay is included with your Mackie Control that shows all Steinberg-specific key assignments for this device. The overlay can be placed over the top right part of Mackie Control, above the transport controls. These key assignments are used to remote control Nuendo.

You can also order this overlay from Mackie. Contact your hardware dealer for details.

The following figure shows the Steinberg overlay for Mackie Control.

⚠️ Please note that we will refer to the key assignments of the Steinberg overlay throughout this manual, i.e. the original key labels replaced by this overlay are not used.
About the Shift button
In the Action Keys section, to the right in the second row of buttons, you will find the Shift button. The Shift button is always used in combination with another button to extend that button’s functionality. Pressing the Shift button alone has no effect.

About Mackie Control XT
Mackie Control XT 8 channel extender units are also supported. All faders and encoder/displays are combined into one continuous surface. The following applies:

• When the encoder section is used to display the data for one channel (channel strip mode, or for plug-ins), the parameters are presented over the encoder section of all devices, from left to right.

• Fader bank navigation and encoder section assignment is controlled by the Mackie Control unit.

• For each Mackie Control and Mackie Control XT unit, a new device needs to be added in the Device Setup. For each device select the appropriate MIDI ports.

• In the Device List, the top-most device represents the right-most channels, and vice versa.

Please make sure that the used MIDI ports are deactivated in the “All MIDI Inputs” device.
2

Basic mixing
About this chapter
This chapter describes how to work with the faders and the rows of buttons above them (Solo, Mute, Select and Rec), and how to select which channels are affected by the fader settings.

Selecting which channels to control
Mackie Control’s fader section controls eight different channels in Nuendo (plus the master level, which has its own fader). You select which channels to control with the aid of the Fader Banks section of Mackie Control.

Using the faders
The faders of Mackie Control are used for hands-on level control and mixing, and allow precise adjustments of the corresponding channel levels in Nuendo. Since the faders are motorized, they will move to reflect any level automation you have created in your projects. The faders will also move when you select a new set of eight channels to control, instantly jumping to reflect the current levels of the eight channels.

• The faders are also touch sensitive, which means that as soon as you move a fader manually, the motors are “overridden”. In other words, if you have automated level changes, you can grab a fader at any time, overriding the automation – just as you can click and hold a moving fader on screen with the mouse.

• Even though the faders are very quiet, there may be situations when you want absolute silence – e.g. when mixing an extremely soft and subtle piece of music. If that is the case, you can disable the motors by clicking the Motors button in the Action Keys section. When you are finished, click the Motors button again. The fader motors are enabled again, and the faders will instantly move to reflect the current levels.

⚠ Turning the motors off does not affect the automation in Nuendo – all automation data saved in your project is played back as usual.
**Rec/Rdy**

The buttons directly underneath the row of V-Pots are used to arm a track for recording. The LEDs indicate the record arming state for a particular track.

The Signal LEDs underneath the Rec/Rdy buttons indicate signal activity on the channels. The LED lights up as soon as the level meter for a channel shows any activity.

**Mute and Solo**

The two rows of buttons underneath the Rec/Rdy buttons allow you to mute or solo channels. The following rules apply:

- You can mute or solo several channels at the same time.
- The Mute and Solo buttons always show the status of the current set of eight channels!

This means that if you mute a channel and then select another set of eight channels for fader control, the Mute indicator will go dark.

⚠️ If you have soloed a channel, this is indicated by the Rude Solo LED at the top right of the Mackie Control panel. You can un-solo or un-mute any channel or combination of channels by pressing (without or with Shift) the Solo Defeat button. See “Working with windows” on page 26.

**Using the Select buttons**

In the rows of buttons above the faders you will find the Select buttons. These are used for selecting a single channel for detailed settings (see “Selected Channel mode” on page 13).

- Only one channel at a time can be selected.
A note about automation

The Read and Write buttons in the top row of the Action Keys section control the status of the Read and Write buttons in the Mixer of Nuendo, allowing remote control of Mixer automation.

- Press the Read button to enable or disable the reading of automation data for the selected channel.
- Hold down the Shift button and press the Read button to enable or disable the reading of automation data for all channels.
- Press the Write button to enable or disable the recording of automation data for the selected channel.
- Hold down the Shift button and press the Write button to enable or disable the recording of automation data for all channels.
3

Control strip assignment
About this chapter

This chapter describes the assignment of the control strip to access all VST settings in Nuendo: EQ, effect sends, effect and VST Instrument parameters and so on. It also contains descriptions of the available parameter pages, as shown in the display of Mackie Control.

Basic procedures

Selecting a parameter group

To be able to view the settings of a parameter in the display and edit the values with the V-Pots, you need to select the corresponding parameter group. This is done by pressing one of the buttons in the Assignment and Action Keys sections of Mackie Control.

About the three modes

Mackie Control operates in one of three modes: Selected Channel, Fader Set or Global. Which mode is used depends on which parameter group is selected. For example, pushing the Pan button in the Assignment section puts Mackie Control in Fader Set mode.

The functionality of the three modes is described on the following pages.

Selected Channel mode

This mode gives you access to up to eight different parameters at the same time for a single, selected channel. You can think of this as working with a single, vertical channel strip on a mixer desk, having access to pan, EQ, sends, etc. for a single channel.

When you have selected a parameter group in this mode, the display shows the following information:

The upper row shows the names of the available parameters. Each parameter can be controlled with the corresponding V-Pot. In this example, V-Pot 1 would control the “Freq1” parameter, V-Pot 2 would control “Gain1” and so on.

- You select which channel to edit in Selected Channel mode by pressing one of the eight Select buttons directly above the faders.

See “Using the Select buttons” on page 10.
**Fader Set mode**

In this mode, you can view and edit a single parameter for eight different channels (the current Fader Set). You can think of this as working with a horizontal segment of a mixer desk, e.g. the pan controls for eight consecutive channels:

- You select which set of eight channels to edit by using the buttons in the Fader Banks and/or the Fader Groups section, as described on “Selecting which channels to control” on page 9.

**Global mode**

This is where you make global settings, i.e. settings that are not related to the individual channels. Examples include parameter settings for the send effects, master effects and VST Instruments.

The contents of the display depend on the selected parameter group. Here, the “Instruments” group is selected, and the display shows settings for one of the active VST Instruments:

The upper row shows the names of the available parameters. As you can see, only four parameters are shown on one page, allowing longer parameter names. Each parameter can be controlled with any of the two V-Pots above it. Here, the “Octave” parameter would be controlled with V-Pot 1 or 2, “Semitone” would be controlled with V-Pot 3 or 4 and so on.

**Using the control strip**

When you have selected a parameter group (or parameter sub-group – see below), you need to go to the page containing the desired parameter. This is done by pressing the two buttons labeled I/O for Page Down and Sends for Page Up at the top of the Assignment section.

- Holding down the Shift button (on the right in the second row of buttons in the Action Keys section) and pressing Page Up or Page Down takes you to the first or last available parameter page.

Once the parameter is shown in the display, you can adjust its value by moving the corresponding V-Pot.

- When you move the V-Pot, the display will switch to show the parameter values instead of the parameter names.

After you have moved a V-Pot, the display will keep the values shown for a short while before switching back to parameter names.
• To view the parameter values without making any changes, press the Name/Value button in the Display section. This makes the display switch to showing parameter values. Click the Name/Value button again to go back to parameter names.

• The parameter values are also indicated by the LED rings around the V-Pots.

About parameter sub-groups

Most of the settings are structured in the following way: a parameter group (accessed by pressing a button in the Assignment or Action Keys sections) contains one or several pages, each holding one or several parameters.

However, in the case of send effects, master effects, instruments (Global mode) and inserts (Selected Channel mode), there is one more hierarchical level, called a parameter sub-group. For example, the parameters for master effects are structured in the following way:

The “Master Effects” parameter group contains eight sub-groups – one for each insert effect slot in Nuendo. Each sub-group contains a number of pages which contain a number of parameters (both numbers depending on the activated effects).

• To select another parameter sub-group, go to the first page of the current sub-group and use V-Pot 1.

The figure below shows the first page of the first parameter sub-group in the Master Effects group.

About the symbols used in this chapter

On the following pages, all the different parameter groups are described. The parameter groups are divided according to the three modes, Selected Channel, Fader Set and Global.

For quick navigation in this manual, an icon at the top of each manual page shows to which mode it belongs:

This icon indicates the “vertical” Selected Channel mode.

This icon indicates the “horizontal” Fader Set mode.

This icon indicates Global mode.

When a group of parameters has more than one page of parameters in the Mackie Control display, this is indicated by the following symbol:

This corresponds to the I/O and Sends buttons in the Assignment section of Mackie Control.

For example, in the picture below, you would use the I/O and Sends buttons to switch between the “Level” and the “Enable” parameter pages:

This indicates Master Effect slot 1. Use V-Pot 1 to select another parameter sub-group (i.e. another Master Effect slot).

This indicates Master Effect slot 1. Use V-Pot 1 to select another parameter sub-group (i.e. another Master Effect slot).
Selected Channel: EQ

Accessing the EQ controls for the currently selected channel is achieved by pressing the EQ button in the Assignment section. If you press Shift + EQ one band per page will be shown for the selected channel.

Please select a channel by pressing one of the Select buttons above the faders.

The controls for the equalizers are divided into 2 pages:

- **Page 1**
  Frequency and Gain pairs for the four bands.

- **Page 2**
  Enable and Q controls for the four bands.

Selected Channel: FX Send

Accessing the FX Send (auxiliary) controls for the currently selected channel is done by pressing the DYN button in the Assignment section. Pressing Shift+ DYN will step through Fader Set mode “FX Send 1” to “FX Send 8”.

Please select a channel by pressing one of the Select buttons above the faders.

The controls for the sends are divided into 4 pages:

- **Page 1**
  Send Levels for each of the 8 FX Sends.

- **Page 2**
  Enable switches for each of the 8 FX Sends.

- **Page 3**
  Switches to change between pre/post fader mode.
Controls to choose the destination of the FX send signal.

- Page 4

**Selected Channel: Inserts**

Accessing the Insert Effect controls for the currently selected channel is done by pressing the Plug Ins button in the Assignment section.

Please select a channel by pressing one of the Select buttons above the faders.

- When Page 01 is selected, V-Pot 1 selects which of the insert slots is currently being edited (see “About parameter sub-groups” on page 15).

If no effect is selected for the current insert slot, the display will show that ‘No Effect’ is selected.

After a plug-in has been selected in Nuendo, the display will change to show the selected plug-in in this effect slot and the ‘number of pages’ indicator will be updated to show the amount of pages necessary to display all the plug-in’s declared parameters.

Here the Reverb32 plug-in has been selected.

The Bus destinations control whether the FX send signal is sent directly to the internal effects, to the Group channels or to a physical bus output (if your sound card has additional outputs.)
**Selected Channel: Studio Sends**

Accessing the Studio Sends controls for the currently selected channel is done by pressing the Sends and the Shift button in the Action Keys section.

Please select a channel by pressing one of the Select buttons above the faders.

The controls for the Studio sends are divided into 4 pages:

- **Page 1**
  Send Levels for each of the Studio Sends.

- **Page 2**
  Enable switches for each of the Studio Sends.

- **Page 3**
  Switches to change between pre/post fader mode.

- **Page 4**
  Controls the left/right panning of the Studio send signal.

---

**Selected Channel: Instruments**

Accessing the Instrument controls for the currently selected channel is done by pressing the Instruments button in the Action Keys section.

Please select a channel by pressing one of the Select buttons above the faders.
Control strip assignment

**Fader Set: Pan**

Accessing the Pan controls for the current Fader Set is done by pressing the Pan button in the Assignment section.

The left/right panning of a channel in the current Fader Set is controlled by the corresponding V-Pot.

<table>
<thead>
<tr>
<th>Pan</th>
<th>Pan Left-Right</th>
<th>Page: 01/02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ch 1</td>
<td>Ch 2</td>
<td>Ch 3</td>
</tr>
<tr>
<td>Ch 4</td>
<td>Ch 5</td>
<td>Ch 6</td>
</tr>
<tr>
<td>Ch 7</td>
<td>Ch 8</td>
<td></td>
</tr>
</tbody>
</table>

**Global: Send Effects**

Mackie Control can control the parameters of the effects that are loaded in the first insert of FX channels. To access these effects, press the Sends button in the Action Keys section.

- When Page 01 is selected, V-Pot 1 selects which effect of the FX channels is currently being edited (see “About parameter sub-groups” on page 15).

If no effect is selected for the current slot, the display will show that ‘No Effect’ is selected.

<table>
<thead>
<tr>
<th>FX#1</th>
<th>Off No Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send FX1</td>
<td>Page: 01/01</td>
</tr>
</tbody>
</table>

After a plug-in has been selected in Nuendo, the display will change to show the currently selected plug-in in this effect slot and the ‘number of pages’ indicator will be updated to show the amount of pages necessary to display all the plug-in’s declared parameters.

Here the Reverb32 plug-in has been selected.

<table>
<thead>
<tr>
<th>FX#1</th>
<th>On Reverb32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send FX1</td>
<td>Page: 01/03</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mix</th>
<th>Predelay</th>
<th>Rev.Time</th>
<th>Lo Cut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send FX1</td>
<td>Reverb32</td>
<td>Page: 02/03</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hi Cut</th>
<th>Roomsize</th>
</tr>
</thead>
<tbody>
<tr>
<td>Send FX1</td>
<td>Reverb32</td>
</tr>
</tbody>
</table>
Global: Master Effects

Mackie Control can control the parameters of the effects that are loaded in the master effects section of the main output. To access these effects, press the Master button in the Action Keys section.

- When Page 01 is selected, V-Pot 1 selects which of the master effect slots is currently being edited (see “About parameter sub-groups” on page 15).

If no effect is selected for the current master effect slot, the display will show that ‘No Effect’ is selected.

After a plug-in has been selected in Nuendo, the display will change to show the currently selected plug-in in this effect slot and the ‘number of pages’ indicator will be updated to show the amount of pages necessary to display all the plug-in’s declared parameters.

Here the Symphonic plug-in has been selected.

Global: Instruments

Mackie Control can control the parameters of the instruments that are loaded in the VST Instruments rack. To access these, push the Instruments button in the Action Keys section and press Shift.

- When Page 01 is selected, V-Pot 1 selects which of the VST Instrument slots is currently being edited (see “About parameter sub-groups” on page 15).

If no VST Instrument is selected for the current slot the display will read ‘No Effect’.

After an instrument plug-in has been selected in Nuendo, the display will change to show the currently selected instrument in this effect slot and the ‘number of pages’ indicator will be updated to show the amount of pages necessary to display all the plug-in’s declared parameters.
After an instrument plug-in has been selected in Nuendo, the display will change to show the currently selected instrument in this effect slot and the ‘number of pages’ indicator will be updated to show the amount of pages necessary to display all the plug-in’s declared parameters.

<table>
<thead>
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<th>VST#1</th>
<th>Synth name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instr 1</td>
<td>Page: 01/08</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Oct ave</th>
<th>Semitone</th>
<th>Fine tune</th>
<th>sync 1/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instr 1</td>
<td>Synth name</td>
<td>Page: 02/08</td>
<td></td>
</tr>
</tbody>
</table>

<table>
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<th>Oct ave</th>
<th>Semitone</th>
<th>Fine tune</th>
<th>Noise level</th>
</tr>
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<tbody>
<tr>
<td>Instr 1</td>
<td>Synth name</td>
<td>Page: 03/08</td>
<td></td>
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</tbody>
</table>

<table>
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<th>Filter Freq</th>
<th>Resonance</th>
<th>Env Att</th>
<th>Over drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instr 1</td>
<td>Synth name</td>
<td>Page: 04/08</td>
<td></td>
</tr>
</tbody>
</table>
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Transport control
About this chapter

This chapter describes how to control playback, recording, positioning and the time display in Nuendo from Mackie Control.

The transport controls

The transport controls of Mackie Control are located in the lower right corner of the panel:

- Note that pressing Shift while pressing Rewind or Fast Forward will move the project cursor to the beginning or the end of the project.

About the jog wheel

The jog wheel will only move the project cursor position in Nuendo. If you press the Scrub button above the jog wheel, the Nuendo jog function will be used, i.e. you will hear playback.
You can use Mackie Control to move directly to particular positions defined in your project with the aid of markers. Also, you can place such a marker at the current position in the project. The most common use for this is probably to move to the L and R markers – the left and right locators.

**Jumping to a marker**

In the Markers section (directly above the Transport Controls), press the Prev or Next button to jump from the current project cursor position to the previous or next marker position in your project.

**Adding a marker**

1. Navigate the project cursor to the position where you want to add a marker.
2. In the Markers section, press the Add button. A marker is placed at the current cursor position in your project.

**Switching the time display**

When you press the SMPTE/Beats button in the Display section, the time display of Mackie Control will switch between “bars and beats” and the timecode format as selected in the project setup of Nuendo. This change is also reflected on the Transport bar of Nuendo.

⚠️ If you first change the time display on the Transport bar in Nuendo, this change is not reflected by Mackie Control.
5

Other functions
About this chapter

This chapter describes the remaining functions available on the Mackie Control panel.

Project functions

The Save and Revert buttons in the Action Keys section of the panel have the following functionality:

- Press the Save button to save the current project. This is the same as selecting “Save” from the File menu in Nuendo.
- Hold Shift and press Save to save a backup copy of the current project. This is the same as using the “Save New Version” command in Nuendo.
- Press the Revert button to go back to the last saved version of the current project. This is the same as selecting “Revert” from the File menu in Nuendo.

Edit functions

The Undo and Redo buttons in the Action Keys section of the panel have the following functionality:

- Press Undo to undo the last operation in Nuendo.
- Pressing Shift and Undo simultaneously opens the Edit History dialog in Nuendo.
- Press Redo to “undo the undo”.

Working with windows

The buttons above and to the left of the Markers section allow you to control project functions or to open and close windows in Nuendo.

- Press the Left button to set the project cursor to the position marked by the left locator.
- Hold down Shift and press the Left button to move the left locator to the current project cursor position.
- Press the Right button to set the project cursor to the position marked by the right locator.
- Hold down Shift and press the Right button to move the right locator to the current project cursor position.
- Press the Cycle button to switch Cycle mode on or off in Nuendo. This setting is reflected on the Transport bar in Nuendo.
- Press the Punch button to switch automatic punch in on or off in Nuendo. This setting is reflected on the Transport bar in Nuendo.
- Press the Project button to bring the current Project window to the front.
- Press the Mixer button to open or close the Mixer window.
- Press the Motors button to switch on or off the faders’ motors – see “Using the faders” on page 9.
- Press the Solo Defeat button to disable Solo for all channels.
- Hold down Shift and press the Solo Defeat button to disable Mute for all channels.
In the top right corner of Mackie Control, next to the display, you will find an LED labeled Rude Solo. This LED lights up as soon as any channel has been soloed.

The Rude Solo LED

**Function keys**

You can use the function keys F1 to F8 and function key combinations with the Shift button to access functions in Nuendo. Refer to the Nuendo operation manual for information about how to assign program functions to remote controller function keys.

On the rear panel of Mackie Control you will find two input jacks for foot pedals, labeled User Switch A and B.

The switches and inputs on the rear panel of Mackie Control

The procedure for assigning functions to these foot pedals is the same as for the function keys (see above).

**Cursor keys**

Pressing the cursor keys located to the left of the jog wheel is the same as pressing the arrow keys on your computer keyboard.

**Showing level meters in the parameter display**

You can show level meters for each channel in the parameter display. This is done by pressing Shift and the SMPTE/Beats button. Pressing the same buttons again reverts the display back to parameter mode.
<table>
<thead>
<tr>
<th>Letter</th>
<th>Description</th>
</tr>
</thead>
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<td>B</td>
<td>Bank buttons 9</td>
</tr>
<tr>
<td>C</td>
<td>Channel buttons 9, Control strip 14, Cursor keys 27, Cycle button 26</td>
</tr>
<tr>
<td>E</td>
<td>Edit button 9, Effects, Insert Effects 17, 18, 19, Master Effects 20, EQ</td>
</tr>
<tr>
<td></td>
<td>Selected Channel mode 16, 18, 19, 20</td>
</tr>
<tr>
<td>F</td>
<td>Fader Set mode 14, Faders 9, Flip button 9, FX Send, Selected Channel mode 16, 17, 18, 19, 20</td>
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<td>G</td>
<td>Global mode 14</td>
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<td>I</td>
<td>Inserts 17, 18, 19, Instruments 19, 20</td>
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<td>J</td>
<td>Jog wheel 23</td>
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<tr>
<td>L</td>
<td>Left button 26, Level meters 27</td>
</tr>
<tr>
<td>M</td>
<td>Mackie Control XT 7, Markers 23, Master Effects 20, Mixer button 26, Motors 9, Motors button 9, Mute buttons 10</td>
</tr>
<tr>
<td>N</td>
<td>Name/Value button 15</td>
</tr>
<tr>
<td>O</td>
<td>Overlay 6</td>
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<tr>
<td>P</td>
<td>Page Up/Down buttons 14, Pan, Fader Set mode 18, 19, Parameter groups 13, Parameter sub-groups 15, Project button 26, Punch button 26</td>
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<tr>
<td>R</td>
<td>Read button 11, Rec/Rdy buttons 10, Redo button 26, Revert button 26, Right button 26</td>
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<td>S</td>
<td>Save button 26, Select buttons, Selecting a channel for editing 10, Selected Channel mode 13, Sends Selected Channel mode 16, 17, 18, 19, 20, SMPTE/Beats button 24, Solo buttons 10</td>
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<tr>
<td>T</td>
<td>Transport controls 23</td>
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<tr>
<td>U</td>
<td>Undo button 26</td>
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<tr>
<td>V</td>
<td>V-Pots 14, VST Instruments 19, 20</td>
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<tr>
<td>W</td>
<td>Wheel 23</td>
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<tr>
<td></td>
<td>Write button 11</td>
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