

SWITCHER **OO**

user guide

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INTRO



THANK YOU for your purchase and trust in my products - I hope you'll find switcheroo useful in your studio or live setting.

switcheroo has been designed as a bridge between Lemur and the user in the creative context. While composing, I don't feel like tinkering with Lemur - often I just need a couple of additional switches that are not covered by my staple controllers, so I needed a project that could be configured on the fly without going into Lemur editor. I realized I needed a switch toolbox that could be used in any creative context, but would ensure great flexibility and appealing aesthetics. That's how switcheroo was born.

switcheroo is a switch matrix made of 23 pads that can be predefined with up to 4 MIDI CCs/notes, Lemur target and MIDI channel as well as name, color and pad behavior parameters. What's more, you can store your setting for each pad in 6 memory banks, which gives you in total 144 fully configurable pads. switcheroo is a perfect companion to my KOLO/4series projects and a great tool on its own for live performances, articulation switching or DAW control.

switcheroo is special also as far as Lemur coding is concerned. It is basically made of 23 physical pads with intricate parameter setup/storage mechanism. And as all arts|UNMUTED projects, it's got unique and gorgeous design that will look great on your piano, MIDI controller or console.

I hope switcheroo will help you make some great music!

Przemek Mieszkowski (the developer of arts|UNMUTED premium projects for Liine Lemur for iPad)

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TEST CONFIGURATION

This Lemur project has been tested on the following:

- iPad v1/3/Air with Liine Lemur 5 (iOS 7)
- PC workstation based on Intel 980x processor and Asus Rampage Extreme III motherboard
- Apple Macbook Pro Retina (2013) with Mac OSC 10.9

ABOUT THIS MANUAL

switcheroo has been designed with ease of use, speed and simplicity in mind. However, to master the workflow, you need to read this manual.

LEGEND

For convenience:

- All references to switcheroo internal functions/GUI elements are highlighted in blue, e.g.: **PROJECT**
- All references to Lemur internal functions/GUI elements are highlighted in yellow, e.g.: **SAVE AS**
- IMPORTANT!** • Important information are marked with the red **IMPORTANT** mark.
- WARNING!** • Actions or condition that can cause malfunction or other issues are marked with the orange **WARNING!** message.
- MAC** • Procedures for Mac OSX are marked with the green **MAC** box.
- PC** • Procedures for Windows OS are marked with the violet **PC** message.

SETUP



switcheroo is a flexible MIDI device that can send MIDI messages (notes/CC) on any Lemur Target, so the setup is totally dependent on your needs and working environment. This manual assumes that you are familiar with Lemur setup and have got a WiFi connection between your Lemur on iPad and your computer. If you haven't done this yet, go to [Liine website](#) and follow the tutorials.

IMPORTANT!

arts|UNMUTED is not responsible for setup/system specific issues. All our projects has been extensively tested on various machines (Mac/PC) and should work as expected in all Lemur environments. However, we have helped many people with the setup so feel free to email us at: info@artsunmuted.com.

MAIN SCREEN

3

A

TRG: 0 CH: 1

F# 4

56

109

E0

PAD ON

my pad

SAVE

T: 0 CH: 1

60

vln I

T: 0 CH: 1

C0

vln long

T: 0 CH: 1

C#0

vln staccato

T: 0 CH: 1

D0

vla pizzicato

T: 0 CH: 1

D#0

vln legato

T: 0 CH: 1

61

vln II

T: 0 CH: 1

C7

vln long

T: 0 CH: 1

C#7

vln staccato

T: 0 CH: 1

D7

vla pizzicato

T: 0 CH: 1

D#7

vln legato

T: 0 CH: 1

63

vla

T: 0 CH: 1

64

vlc

4

65

db

T: 0 CH: 1

66

orchestra

T: 0 CH: 1

68

piano

T: 0 CH: 1

C0

vla legato

T: 0 CH: 1

C0

vla legato

T: 0 CH: 1

E7

vlc spiccato

T: 0 CH: 1

D7

db legato

T: 0 CH: 1

61

vlc legato

T: 0 CH: 1

C#0

vla spiccato

T: 0 CH: 1

C#0

vla legato

T: 0 CH: 1

F7

vlc legato

T: 0 CH: 1

C#7

vlc legato

STORE

2

5

C

D

E

F

1



1. SHIFT



switcheroo features a dedicated function button (**L SHIFT**) that modifies the behavior of visible elements and displays some additional objects and sections in most modules. In this manual, the description of the display with active **L SHIFT** will be marked with the green L (on the left).

To activate **L SHIFT** you can touch it - it will turn blue and stay active. To deactivate it, touch it again. You can also touch and hold the button - it will remain active as long as you hold it. It will be deactivated upon release.

2. STORE BUTTON



STORE button turns the pads into **STORE MODE**. In this manual, this state will be marked with the red S (on the left). Pressing one of the store pad visible in **STORE MODE** will be described as **STORE**.

3. INFOBAR



INFOBAR shows currently selected parameters that will be assigned to a pad when you press the respective store pad in **STORE MODE**. It contains the following display items (from the left):

- Lemur target assignment
- MIDI channel assignment
- selected MIDI multi output values (CC values or note names with the respective octave)
- color assignment
- pad behaviour (pad or switch)
- display status (on/off)

Apart from that there are 3 additional elements:

- **NAME DISPLAY** button that shows the currently selected name for the pad. It has got two states: blue - which means that the name selected with **NAME SELECTOR** will be assigned to the pad on **STORE**. When the button is dark gray, the name selected with **NAME SELECTOR** will not be assigned to the pad on **STORE**.

IMPORTANT!

To assign your custom name entered in Lemur editor mode (see [NAME EDIT](#)), the button has to be dark gray.

- **SAVE** indicator - it flashes in red when current pad parameters differ from the stored pad parameters, which means that all current pad parameters will not be saved when you change the memory banks. Touch the respective **BANK STORE** button to store the parameters in the respective memory bank.
- **MIDI OFF** button - it temporarily disables MIDI output (when this button is active, pads don't send any MIDI messages to your target device/software. It is useful during pad setup.

4. PAD MATRIX

PAD MATRIX features 24 custom pad objects. You can customize the following parameters: Lemur Target, MIDI channel, MIDI CC/note value, color, name and pad behavior. The state of these parameters is reflected by the physical appearance of the button

The pad on the right has been set up as follows: Lemur Target: 2, MIDI channel: 3, MIDI output: CC 27, pad behavior: switch (when you touch it, it remains pressed; touch it again to release it), name: feedback.



This pad on the right has been set up as follows: Lemur Target: 0, MIDI channel: 1, MIDI output: (note) C#0, pad behaviour: pad (it remains pressed as long as you hold it), name: vln staccato.

**IMPORTANT!**

When the pad is configured for multi-output, it is marked with large **M**. It means that the pads sends more than one message. The values are not displayed on the button (due Lemur memory limits) - to see them, press the button and see the values on **INFOBAR**. Depending on the setup you will see 1,2, 3 or 4 items with CC values/note names.

S

All the pads turn into **STORE MODE** (pad frames turn red and all buttons become light gray). Touch a **STORE PAD** to assign the current parameters (indicated on **INFOBAR**) to the respective pad.

5. MEMORY BANKS

On the left, there are 6 color-coded **MEMORY BANKS [A-F]** that store parameters for all 24 pads. Press a **MEMORY BANK** to switch to the stored set.

S

MEMORY BANKS turn into red **MEMORY BANK STORE** buttons for storing currently parameters for all pads. Currently selected memory bank is indicated by a flashing black square.

For more information on storing and recalling pad parameters, see [MEMORY BANK SYSTEM](#).

PARAMETER SETUP SCREEN

TRG: 0 CH: 1 37 80 85 82 PAD ON my pad SAVE

	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
-2	0	1	2	3	4	5	6	7	8	9	10	11
-1	12	13	14	15	16	17	18	19	20	21	22	23
0	24	25	26	27	28	29	30	31	32	33	34	35
1	36	37	38	39	40	41	42	43	44	45	46	47
2	48	49	50	51	52	53	54	55	56	57	58	59
3	60	61	62	63	64	65	66	67	68	69	70	71
4	72	73	74	75	76	77	78	79	80	81	82	83
5	84	85	86	87	88	89	90	91	92	93	94	95
6	96	97	98	99	100	101	102	103	104	105	106	107
7	108	109	110	111	112	113	114	115	116	117	118	119
8	120	121	122	123	124	125	126	127	MIDI/TARGET			

6 5 4 3 2 1

4

N



When you press **L SHIFT**, **SETUP SCREEN** will appear with the following elements:

1. OUTPUT VALUE SELECTOR

switcheroo features an easy to use MIDI output value selector. Select the desired pad marked from 0 to 128 to set MIDI CC/note value. For your convenience, there are note and octave markers. Your selection is reflected on **INFOBAR**.

2. SETUP BAR

SETUP BAR features the following controllers:

- 6 color switches
- **SHOW/HIDE** button - press this button (it will turn red) if you want to hide the pad. The display status indicator on **INFOBAR** will show **OFF**. After **STORE** the respective pad will disappear.
- **MIDI OUTPUT TYPE SELECTOR** - this button will let you choose MIDI output type for your pad (CC or note).
- **KEYBOARD MODE** - this button activates MIDI output from **OUTPUT VALUE SELECTOR** (i.e. it sends MIDI notes, which is useful while looking for a loop or keyswitch).
- **NAME SELECTOR DISPLAY** - this button displays **NAME SELECTOR** with nearly 400 names in 5 useful categories.

3. MIDI/TARGET

It shows **LEMUR TARGET/MIDI CHANNEL SELECTOR** for selecting Lemur Target and MIDI channel.

4. PAD BEHAVIOR SELECTOR

This button will let you define pad behavior (pad or switch).

5. MULTI OUTPUT SELECTOR

This button switches multi-output mode on/off and shows **MULTI-OUTPUT BAR** with controllers for each **MIDI** output elements.

6. MULTI OUTPUT BAR

The bar consist of 4 pairs of switches. The gray switches with values are for selecting consecutive output elements. The values show the currently selected output values for each output element. The dark gray buttons activate respective output elements. Each output element can be defined as note or CC with **MIDI** **OUTPUT TYPE SELECTOR**.

NAME EDIT

switcheroo let you easily create your own names for all the pads using Lemur Editor on iPad.

To assign a custom name to a pad:

1. Save your switcheroo project on your iPad (touch **GEAR ICON** in the upper right corner and touch **SAVE PROJECT**).
2. Touch **EDIT PROJECT**.
3. Touch and hold the name of the pad you want to modify.
4. txName pane will appear. Touch **CONTENT** field. The keyboard will appear. Type your name.
5. Make sure **NAME DISPLAY** on **INFOBAR** is dark gray (touch it if it is blue).
6. Store the settings.
7. Store the settings for the respective memory bank (see [MEMORY BANK SYSTEM](#)).

IMPORTANT!

Please remember that if you want to assign a predefined name to a pad using **NAME SELECTOR**, **NAME DISPLAY** on **INFOBAR** has to be blue.

MEMORY BANK SYSTEM

switcheroo let you store your parameter assignments in 6 memory banks. To store your complete layout in one of six banks (A-F):

1. Make sure all pads on the main screen are properly assigned with all desired parameters.
2. If there is a difference between the parameters stored in a currently selected memory bank and any parameters assigned to pads, you will see **SAVE** indicator flashing.
3. Touch store button in the lower right corner of the main screen.
4. Touch the respective red memory bank store button. For convenience, the current memory bank selection is indicated with a blinking red square. This will store all the complete set of parameters for all parameters in a current layout.
5. **SAVE** indicator will stop flashing which means that the parameters stored in a memory bank and the parameters assigned to all the pads are the same.
6. Now you can change memory banks and the saved layout will be recalled when you touch the respective **MEMORY BANK** button.

IMPORTANT!

After setting up your custom switcheroo project to your iPad and upload it to your computer for backup.