

AUREX

CTRL

MANUAL

V2.1



DEDICATED CONTROL



DIVA TYRELL U-HE REPRO 1 REPRO 5

ARTURIA MINI V JUP-8 V JUN-6 V

FINALLY MAKING THE CONNECTION

I like hardware synths. I love turning knobs, pushing buttons, and flicking faders when creating sounds. At the same time, I also love all the software synths that are available now, especially because of very convincing analog sounding softsynths such as the U-He or Arturia synths.

However, I've always felt the connection between software plugins and hardware controllers was missing something. When controlling hardware synthesizers, you get a great user interface, with clear labelling and tactile control over every parameter. MIDI controllers however, often present you with an uninspiring interface with mismatching colours, incorrect text or inaccurate labels. More importantly, they often can't handle more advanced functions like modulation assignment, interactive LED feedback or multi-button control over one single function. I also easily forget which knob I MIDI-mapped to which function and so on ... I've never connected with them like I do with hardware - until I developed the **aurex CTRL bundle**.

aurex CTRL makes you forget you're using software. No screen or mouse needed.

This is exactly why I developed the aurex CTRL bundle. This bundle makes the Novation Launch Control XL function as the ultimate MIDI controller for your software synthesizers. I built a custom MIDI template (using advanced programming with BOME MIDI Translator) that translates every Launch Control XL's MIDI message into all kinds of relevant MIDI data, offering much more possibilities than the original Launch Control XL's functions. In addition, I designed a Launch Control XL printable cover with all of these new features on it. This bundle comes with everything included (MIDI software, presets and printable cover) and gets you started right away.

STANDARD MIDI MAPPING ? NOT AT ALL!

My script fits in between the Novation controller and the synthesizer plugin, creating many more functions and possibilities than the original Launch Control XL's MIDI mappings. A simple example of what you can do with this: you can select LFO waveforms and speed settings with dedicated buttons. A more complex example is the Modulation Routing page, which allows you to assign up to 16 modulation sources to all kinds of destinations. Knobs and buttons can have multiple functions, depending on the menu you're in. The LEDs reflect all these different pages and assignments. As a result, my template gives you the opportunity to control over 200 Diva parameters and over 100 functions on the other synths through a very intuitive hardware interface.

"The combination of hard- and software with dedicated advanced MIDI control makes you truly forget you're controlling a plugin."

A completely new feeling to me. I also believe this is the reason why controllers such as Softube's Console 1 work so intuitively and smooth, making you forget it's only a controller.

When making music, I want to focus on the sound and that works best for me through the physical connection. This bundle has all the benefits of software (great sound, presets, DAW recall, automation, ...) and hardware (actual knobs and faders to touch, a dedicated graphical interface, speed of creating sounds, less mouse actions and screen time, ...) combined.

VERSION HISTORY

2.1 changes

- bug fixes
- Table Of Contents for the manual

2.0 changes

- added Arturia MINI V, JUP-8 V and JUN-6 V mappings.
- pressing and holding MODEL acts as a shortcut to the PLUGIN menu

1.3 changes

- Diva - 2 VCO: added sine shape selection with 3 WV knob
- Diva - added Minimoog shape emulation with the PW knobs
- Diva - HPR LED not updating correctly to the selected filter models
- sustain pedal added for keyboard input
- a few small bug fixes

1.2 changes

- better INIT state for all OSC models (and correct LEDs)
- MIDI program change (in the plugin menu) now works correctly
- Pitch Bend and Modwheel for the KEYB you selected as other controller are added
- LFO1 'rand hold' LED in Diva now has the right color
- When in PLUGIN MENU, the Ableton aurex LINK device gets ignored to avoid conflicting messages.
- ARP settings in Repro 1 could also affect the 'Jaws' FX parameters

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1. INSTALLATION

Download the aurex CTRL bundle at Gumroad

<https://aurex.gumroad.com/l/aurexctrl>

<https://app.gumroad.com/library>

or the demo at

<https://www.aurexmusic.com/ctrldownloads.html>

1.1 QUICK START GUIDE

INSTALLATION:

1. Install the **aurex CTRL.syx** file onto user preset 1 off your Launch Control XL
2. Move the U-He **.midiassign** files to their **correct location**.
3. Import the Arturia MIDI configuration files in your Arturia plugin.
4. Install the MT Player and load the **aurex CTRL.bmte** file.
5. Start your DAW and Send MIDI data from the RX CTRL MIDI port to the desired plugin on MIDI Channel 1. Diva requires MIDI Channel 1 for synth related data and Channel 2 for FX data.

! Make sure you don't send data twice - for example: from the Launch Control XL and the RX CTRL Port at the same time - as this will result in conflicting CC messages.

More info can be found in the installation chapter of this manual.

DIFFERENT MENUS

- **MAIN**: the standard menu, to control all the basic stuff like oscillator waveforms, filter cutoff, ...
- **SHIFT**: more advanced features, second envelope and LFO, high pass filter, ...
- **MODEL**: assign and adjust different oscillator / filter / envelope models and their settings
- **PLUGIN**: change the plugin map! This menu is activated with a button inside the MODEL menu*.
- **FX / ARP**: press SHIFT to go to the ARP page or MODEL to go back to the FX page.
- **MD ROUT**: advanced modulation routing for Diva, Tyrell, Repro 1/5 and MINI V

* You can also change the plugin map with the following shortcut:

- Press and hold the MODEL menu button for at least 1/2 second.
- Choose one of the plugin maps (you can switch between UHE and ARTURIA with the orange button).
- Release the MODEL menu button.

LEDS COLORS

- **RED**: the default function, used for most of the oscillator models / plugins and printed in white text
- **ORANGE**: the secondary function, used for some oscillator models / plugins and printed in orange text
- **YELLOW**: all the functions for the SHIFT menu, printed in yellow text
- **LIME**: Repro exclusive functions or other extra features which are not labeled with text
- **GREEN**: for modulation related knobs and buttons, labeled with green text
- **OFF**: when the knob / function is not available for the selected model / page

1.2 NOVATION .SYX PRESET

1. Go to the Novation Components online editor
<https://components.novationmusic.com/launch-control-xl-mk2/templates>
2. Load the aurex CTRL.syx preset, from the Novation folder in the aurex CTRL bundle:

aurex CTRL.syx

This is the Launch Control XL midi configuration preset.

3. save this to any user template of choice, but user 1 is preferred as aurex CTRL will automatically select Launch Control XL's user 1 preset on startup of the MT Player.

1.3 U-HE MIDI ASSIGN

First, you need to close your DAW and plugins.

Then, replace the original MIDI assign files located in

MAC: [you] / Library / Application Support / u-he / com.u-he.(Diva).midiassign.txt*

WIN: ... \ VstPlugins \ u-he \ Diva.data \ Support \ com.u-he.(Diva).midiassign.txt

with these ones:


- **com.u-he.Diva.midiassign.txt**
- **com.u-he.Repro-1.midiassign.txt**
- **com.u-he.Repro-5.midiassign.txt**
- **com.u-he.TyrellN6.midiassign.txt**

These are the MIDI configuration files for the U-He plugins.

* On default, the user library folder on Mac is hidden. Use the following method to unhide it:

1. Go to the Finder (or desktop).
2. Hold the Option key on your keyboard, and click the Go menu at the top of the screen.
3. With the Go menu open, you'll notice that pressing and releasing Option will display or hide the Library choice in this menu.
4. Select Library from the Go menu (while holding down Option) to access the hidden folder.

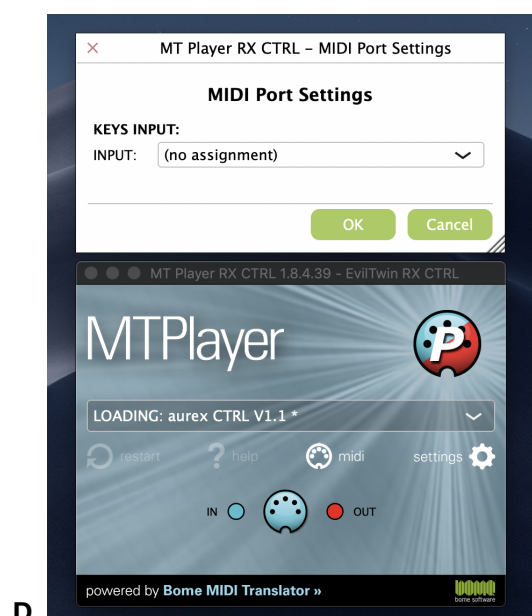
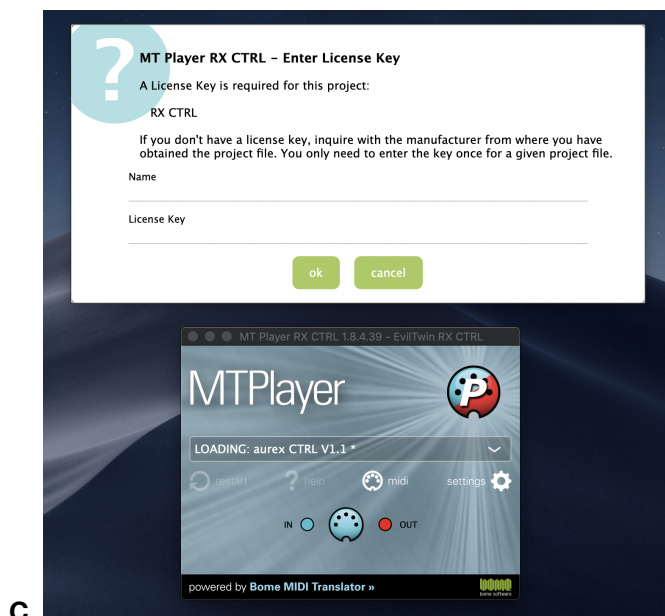
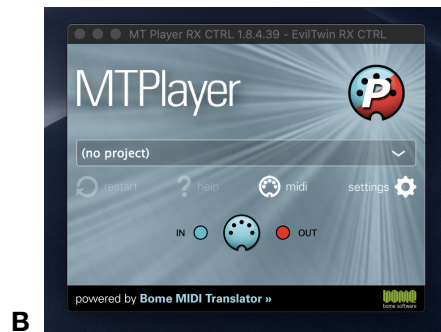
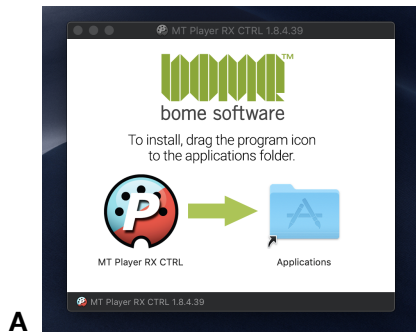
1.4 ARTURIA MIDI ASSIGN

1. Open the MINI V, JUP-8 V and JUN-6 V in your DAW or standalone.
2. Go to settings 
3. Go to the MIDI tab and select **Generic MIDI Controller**
4. In the MIDI Config field, select **Import Config** and load the configuration file from the aurex CTRL Arturia folder
 - **aurex CTRL V2.1.minimidi** for the Mini V
 - **aurex CTRL V2.1.jupmidi** for the Jup-8 V
 - **aurex CTRL V2.1.junmidi** for the Jun-6 V



1.5 MT PLAYER

1. install the MT Player application for Mac (OS 10.10 or later) or Windows (Windows 7 or later)
2. drag and drop the **aurex CTRL.bmte** file on the MT Player window when you open the player for the first time.
3. insert the name and license key if asked for (included in the 'MT Player' folder of the aurex CTRL bundle). If you've already installed MT Player before, it can find your previous key automatically.



4. open the MT Player and select one of your controllers to function as the KEYS INPUT for aurex CTRL. This way, you don't need to select 2 different MIDI devices (Launch Control XL and another device to play the keys) in your DAW to control the plugin. It doesn't matter which MIDI channel your controller is set to, aurex CTRL will automatically set this up correctly.
If you don't have a MIDI keyboard you would like to use, leave the KEYS INPUT set to "(no assignment)" and press OK or CANCEL. Do not close or quit the MT Player.

1.6 DAW SETUP

Send MIDI data **from the RX CTRL MIDI port** to the desired plugin on MIDI Channel 1 (Diva requires MIDI Channel 1 for synth related data and Channel 2 for **FX and ARP DATA**). If you use Ableton Live, also check out the **Ableton LINK** device.

! Make sure you don't send data twice - for example: from the Launch Control XL and the RX CTRL Port at the same time - as this will result in conflicting CC messages.

2. OVERLAY

Printable paper cover

Use the included printable overlays to navigate all of aurex CTRL's functions on the tactile surface of your Launch Control XL:

1. print in color, with no scaling options active, so that it exactly fits the physical surface.
2. cut out the white parts with scissors or a cutting knife and it's ready to use.

High quality cover

While the printable cover is a good solution to start using aurex CTRL, there's a much better option available:

I've been working together with <https://www.taktility.com/> to provide you with a high quality hard cover overlay, made of robust and waterproof material (polyester based foil, 0.2 mm thickness). This makes the whole package complete, and you won't even notice there's a cover laying on top of the original printings. It looks absolutely fantastic and truly transforms the Launch Control XL into the dedicated control surface I wanted it to be.

You can order the Taktility overlay by sending an email to Taktility with the request to order the aurex CTRL cover for Novation Launch Control XL <https://www.taktility.com/contact/>.

This layout is available for 17 EUR exclusive shipping costs. I highly recommend this.



3. MAIN

3.1 MAIN - KNOBS



Depending on the selected model or plugin, the LEDs have a different color:

- **RED**: the default function, used for most of the oscillator models and printed in white text
- **ORANGE**: the secondary function, used for some oscillator models and printed in orange text
- **LIME**: Repro exclusive functions or other special features which are not labeled with text.
- **OFF**: when the knob / function is not available for the selected model / page

For **Diva**, when controlling the 3 VCO model:

The **1 PW** and **2 PW** knobs control oscillator A and B's waveform in steps, making them act like the stepped knobs you would find on a vintage Minimoog. I replicated the waveform settings as close as possible to how a real Minimoog sounds.

For **Repro 1** and **5**:

MOD A controls the Filter Envelope Amount

MOD B controls the Filter Keyboard Amount*

*TIP: turn the MOD B knob to the maximum position to select a value of around 75 on the plugin, ideal to 'play' the filter's resonance with keyboard tracking

For **MINI V**:

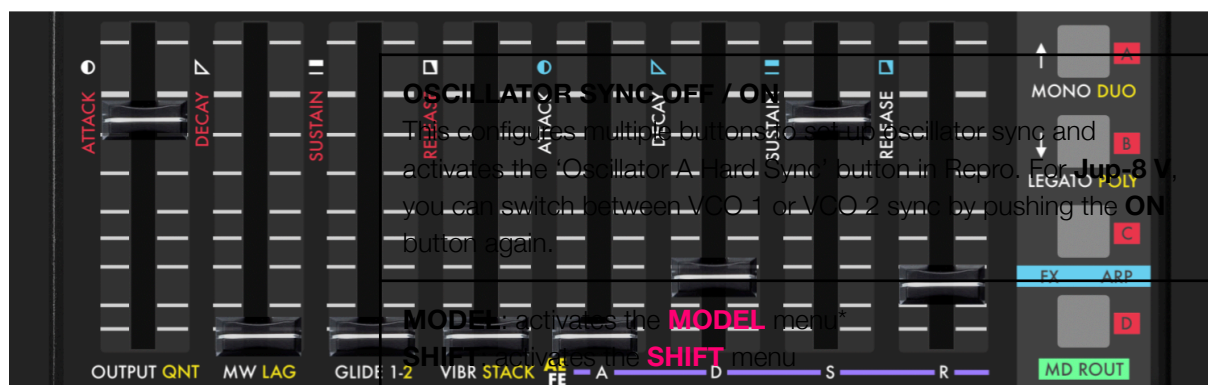
2 PW controls oscillator 2's fine tune. Use the SHIFT menu to control the fine tuning for oscillator 2 (with **2 PW**) and the fine tune for oscillator 3 (with the **NSE** knob) together.

T1 MD controls the MOD MIX knob.

For **JUP-8 V** and **JUN-6 V**:

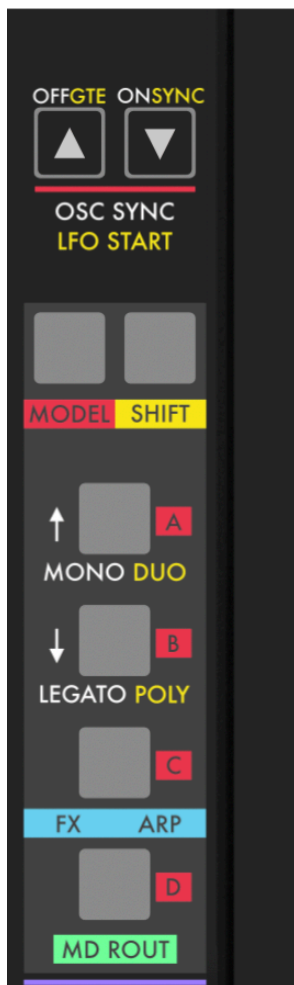
Some knobs are used to control switches (**1 VOL** and **3 OCT**). The LEDs change color to reflect the switch state. Yellow = up, orange = center and green = down 🟡🟠🟢

3.2 MAIN - FADERS



	* pushing and holding this for at least 1/2 second immediately selects the PLUGIN menu for quickly changing the plugin map.	
	FADER 1-4 (no 8F selected)	FADER 5-8
DIVA / TYRELL OUTPUT* - MOD WHL - GLIDE1 - VIBRATO	FILTER ENVELOPE A: DIVA / MINI V / JUP-8 V: selects the MONO voice mode A: REPRO: selects a POSITIVE ↑ filter envelope polarity	
REPRO OUTPUT* - MOD WHL - GLIDE1 - R5 UNISON	B: DIVA / MINI V: selects the LEGATO voice mode B: REPRO: selects a NEGATIVE ↓ filter envelope polarity B: JUP-8 V: Unison ON (also available in the MODEL menu)	
MINI V / JUP-8 V / JUN-6 V OUTPUT* - MOD WHL - GLIDE1 - ARP UNSYNC RATE**	C: activates the FX and ARP menu	
* TIP: push the output fader to the maximum value to reset the plugin's output knob to the center position.	D: activates the MODULATION ROUTING menu (if available)	
** This fader only works when you have deactivated the ARP SYNC status in the ARP menu.		

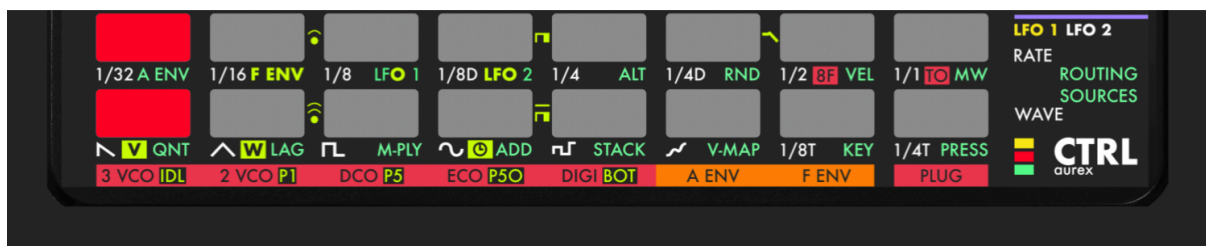
3.3 MAIN - SIDE



TIP: pressing MODEL and MD ROUT together restarts the aurex CTRL mapping. You can use this if you experience any problems. Press the combination once to shut everything down and once more to restart.

3.4 MAIN - BUTTONS

DIVA / TYRELL / MINI V / JUP-8 V / JUN-6 V



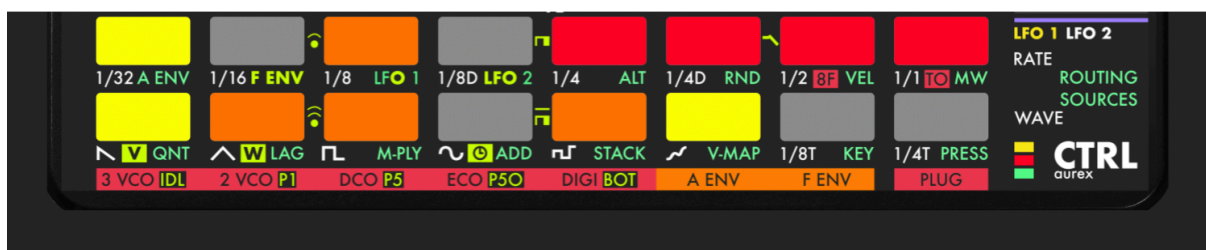
ROW 1 - LFO SPEED (SYNCED) - DIVA / TYRELL : LFO 2 SPEED

1/32	1/16	1/8	1/8D	1/4	1/4D	1/2	1/1
------	------	-----	------	-----	------	-----	-----

ROW 2 - LFO WAVEFORM (if available) - DIVA / TYRELL : LFO 2 WAVEFORM

Saw	Triangle	Square	Sine	Random-Hold	Random-Glide	1/8T	1/4T
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REPRO 1 + REPRO 5



ROW 1 - OSCILLATOR A WAVEFORM + REPRO 1 MIDI MODES

Saw	-	Square	REPRO 5 Unison	REPRO 1 Glide	REPRO 1 Trigger	REPRO 1 Repeat	REPRO 1 Drone
ON		ON	ON	AUTO	RETRIG	REPEAT	DRONE
OFF		OFF	OFF	NORM	NORM	OFF	OFF

ROW 2 - OSCILLATOR B WAVEFORM

Saw	Triangle	Square	-	LOFREQ	KYBD	-	-
ON	ON	ON		ON	ON		
OFF	OFF	OFF		OFF	OFF		

4. SHIFT

4.1 SHIFT - KNOBS



SHIFT menu for Diva

Depending on the selected model or plugin, the LEDs have a different color:

- **YELLOW** : all the functions for the SHIFT MENU are shown with yellow text and yellow LEDs
- **LIME** : Repro exclusive functions or other special features which are not labeled with text.
- **OFF** : when the knob / function is not available for the selected model / page
- **DIMMED RED** : all the knobs from the main menu that don't have a 'shift' function remain active and ready to control. To indicate the activated SHIFT menu, all the LEDs of these respective knobs now have a dimmed red color.

LFO START (Diva, Tyrell and JUP-8 V only)
Diva / Tyrell: switch between Gate and Sync.
JUP-8 V: switch between Free and Retrigger.

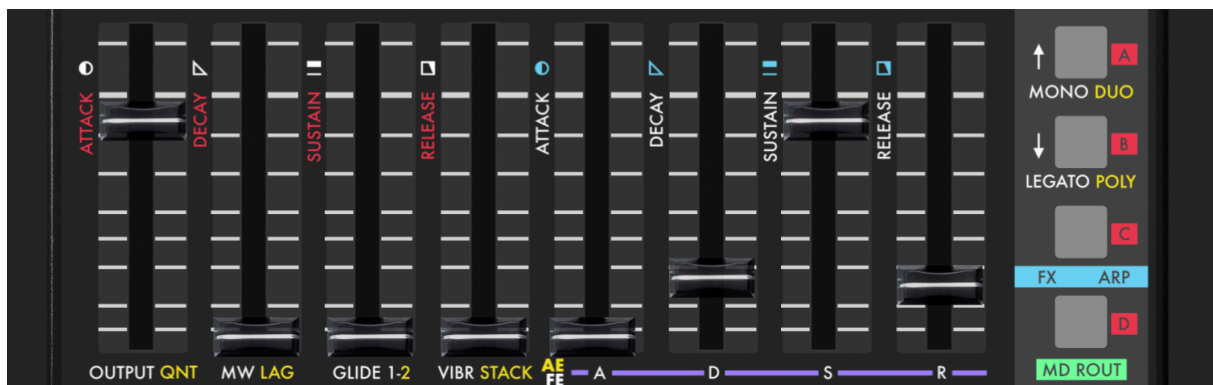
MODEL: activates the **MODEL** menu*
SHIFT: activates the **SHIFT** menu

* pushing and holding this for at least 1/2 second immediately selects the **PLUGIN** menu for quickly changing the plugin map. Release to go back.

A - DIVA: selects the DUO voice mode
A - REPRO: selects a POSITIVE ↑ filter envelope polarity
A - JUP-8 V: selects the POLY 1 mode

B - DIVA / MINI V: selects the POLY voice mode
B - REPRO: selects a NEGATIVE ↓ filter envelope polarity
B - JUP-8 V: selects the POLY 2 mode

4.2 SHIFT - FADERS



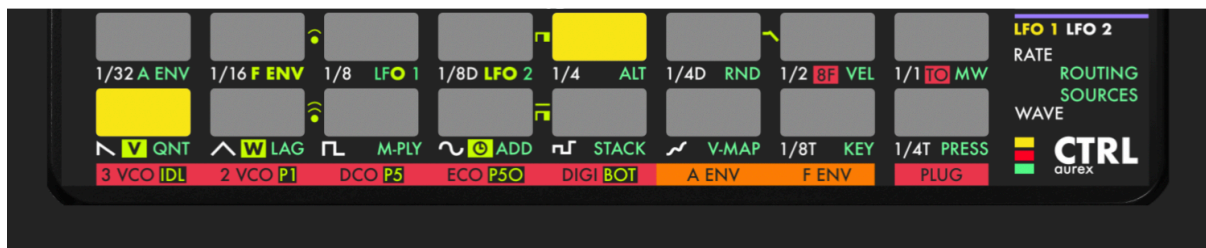
FADER 1-4 (if the 8F function is not active)	FADER 5-8
DIVA / TYRELL QUANTISE - LAG - GLIDE 2 - STACK (1-4) REPRO OUTPUT - MOD WHEEL - GLIDE - R5 VOICE DETUNE MINI V / JUP-8 V / JUN-6 V MACRO 1 - MACRO 2 - MACRO 3 - MACRO 4	AMP ENVELOPE ATTACK - DECAY - SUSTAIN - RELEASE

4.3 SHIFT - SIDE



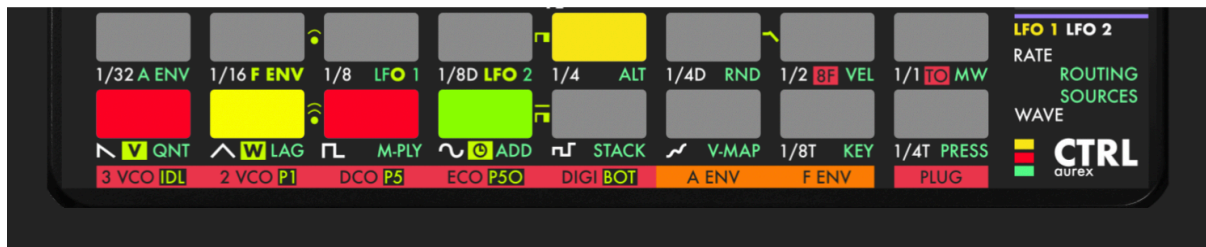
4.4 SHIFT - BUTTONS

DIVA / TYRELL / JUP-8 V / JUN 6 V



ROW 1 - DIVA / TYRELL: LFO 1 SPEED				JUP-8V / JUN-6V: LFO 2 SPEED			
1/32	1/16	1/8	1/8D	1/4	1/4D	1/2	1/1
ROW 2 - DIVA / TYRELL: LFO 1 WAVEFORM				JUP-8V / JUN-6V: LFO 2 WAVEFORM			
Saw	Triangle	Square	Sine	Random - Hold	Random - Glide	1/8T	1/4T

REPRO



ROW 1 - LFO SPEED							
1/32	1/16	1/8	1/8D	1/4	1/4D	1/2	1/1
ROW 2 - LFO WAVEFORM							
Saw	Triangle	Square	Clock Sync	-	-	1/8T	1/4T

5. MODEL

5.1 MODEL - KNOBS

The MODEL menu has no influence on the knob functions.*

Every knob keeps working and you can still switch between MAIN and SHIFT menus.

* For **Diva**, you can control the UHBIE filter's Morph and Morph Modulation knobs this way:

1. activate both the MODEL and SHIFT menu
2. select the MAIN Filter and UHBIE model
3. Now you can control Morph and Morph Mod with the cutoff (M) and resonance (M-MD) knobs.

5.2 MODEL - FADERS

The MODEL menu has no influence on the fader functions.

Every fader keeps working and you can still switch between MAIN and SHIFT menus.



5.3 MODEL - SIDE

U-HE

In the MODEL menu, the **A B C D** buttons allow you to choose different settings for all the available filter models.

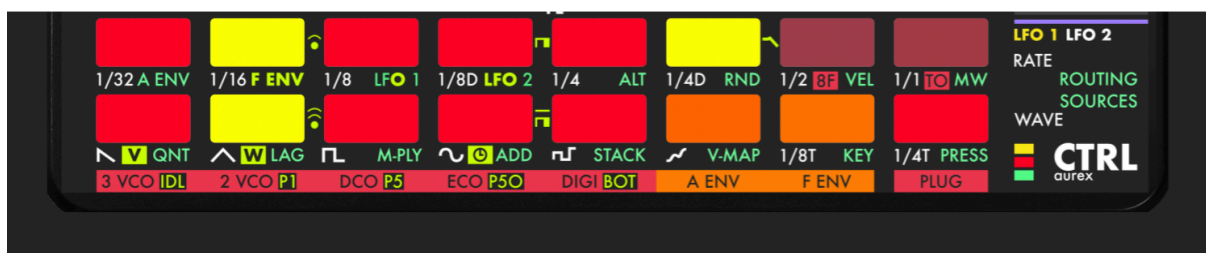
ARTURIA

In the MODEL menu, the **A B C D** buttons allow you to browse and select presets.

DIVA					
	LADDER	CASCADE	MULTI-M	BITE	UHBIE
A	12 dB	12 dB ON	LP4	-	BR
B	24 dB	12 dB OFF	LP2	-	-
C	-	ROUGH	HP	REV 1	-
D	-	CLEAN	BP	REV 2	BP

	TYRELL	REPRO	ARTURIA
A	LP/HP or BP toggle	CRISPY	PRESET UP
B	12 dB / Oct	ROUNDED	PRESET DOWN
C	24 dB / Oct	DRIVEN	PRESET NAVIGATE
D	36 dB / Oct	POLY	PRESET SELECT

5.4 MODEL - BUTTONS: U-HE



DIVA

ROW 1 - FILTER MODELS							
LADDER	CASCADE	MULTI-M	BITE	UHBIE	MAIN	8F MODE*	TO MODE**
FEEDB	HPF PRE	HPF POST	HPF BITE	-	FB / HPF		
ROW 2 - OSCILLATOR MODELS							
3 VCO	2 VCO	DCO	ECO	DIGI	ENV 1 ADS ANALOG DIGITAL	ENV 2 ADS ANALOG DIGITAL	PLUGIN MENU
<p>Pressing a 'matching' main filter and oscillator model at the same time selects the correct FB / HPF model and envelope models at the same time. This makes it super quick to set up Diva as one of the vintage synths it aims to emulate.</p> <p>Example:</p> <ul style="list-style-type: none"> pressing LADDER and 3 VCO together will select the FEEDBACK model and ADS envelopes. pressing BITE and ECO together will select the HPF BITE model and ANALOGUE envelopes. 							

* 8F MODE

Control AMP ENV with fader 1-4 and FILTER ENV with fader 5-8
 This overrides the standard functions (Output, MW, Glide and Vibrato).

SECONDARY FUNCTION (DIVA only):

When you press and hold certain oscillator model selection buttons, this button will turn RED.
 Press it to reset oscillator modulation settings to a default state.

** MANUAL TAKEOVER MODE (TO)

This prevents jumps when turning knobs that have a different value in the plugin GUI versus the hardware controller knob's state. Pressing this button temporarily blocks outgoing MIDI messages, enabling you to turn a knob to a position closer to the on screen value without creating an audible jump.

SECONDARY FUNCTION (DIVA only):

When you press and hold one of the oscillator or filter model selection buttons, this button will turn RED. Press it to reset oscillator or filter settings to a default state. The LEDs of the knobs will briefly show which parameters are being reset.

REPRO

ROW 1 - OSCILLATOR A MODELS							
IDEAL	P1	P5	P5 OLD R5 only	-	-	8F MODE	TO MODE
ROW 2 - OSCILLATOR B MODELS							
IDEAL	P1	P5	P5 OLD R5 only	BOTTOM	A ENV *	F ENV *	PLUGIN MENU

* AMP ENV and FILTER ENV toggle buttons:

These are used to select the different envelope models.

For REPRO 1, pressing the button always makes you jump to the NORMAL envelope model.

For REPRO 5, pressing the button makes you toggle between the NORMAL and IDEAL envelope models.

You can switch to the other envelope models by pressing the ENV button, holding it and switching models by pressing **A** (up) and **B** (down) of the **A B C D** buttons . The following models are now available:

ONE SHOT
HIGH SUSTAIN
PIANO 1
PIANO 2

5.5 MODEL - BUTTONS: ARTURIA

MINI V

ROW 1 - MODULATION SETTINGS							
OSC MOD	OSC 2 CTRL	OSC 3 CTRL	FILTER MOD	VCF KEY FOLLW 1	VCF KEY FOLLW 2	8F MODE*	TO MODE**
ON / OFF	ON / OFF	ON / OFF	ON / OFF	ON / OFF	ON / OFF	ON / OFF	ON / OFF
ROW 2 - OSCILLATOR SETTINGS							
OSC 1	OSC 2	OSC 3	NOISE	UNISON	GLIDE		PLUGIN MENU
ON / OFF	ON / OFF	ON / OFF	WHITE PINK OFF	ON / OFF	ON / OFF		

JUP-8 V

ROW 1 - MODULATION SETTINGS							
A ENV KEY FLW	F ENV KEY FLW	OSC 2 RANGE				8F MODE*	TO MODE**
ON / OFF	ON / OFF	NM / LOW				ON / OFF	ON / OFF
ROW 2 - FILTER SETTINGS							
VCF SLOPE	VCF ENV SELECT	F ENV POLARITY		UNISON	GLIDE		PLUGIN MENU
12 / 24	E1 / E2	NM / INV		ON / OFF	ON / OFF		

JUN-6 V

ROW 1 - MODULATION SETTINGS							
A ENV SOURCE	F ENV POLARITY		LFO 2 RETRIG			8F MODE*	TO MODE**
ENV1 GATE ENV 2	NM / INV		OFF MONO POLY			ON / OFF	ON / OFF
ROW 2 - VOICE SETTINGS							
			CHORD	UNISON			PLUGIN MENU
			ON / OFF	ON / OFF			

*** 8F MODE**

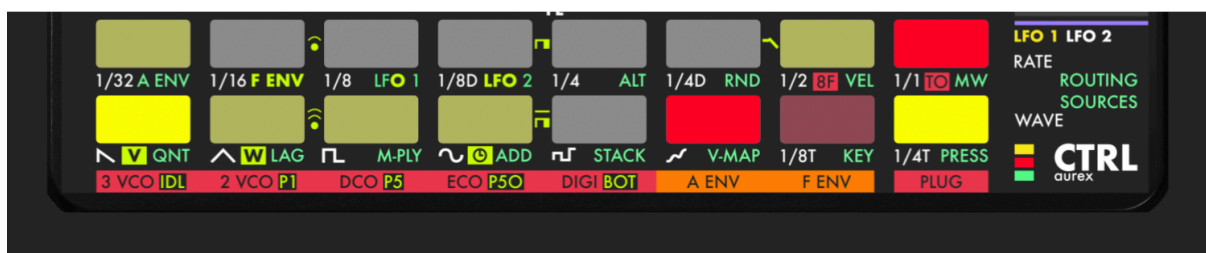
Control AMP ENV with fader 1-4 and FILTER ENV with fader 5-8

This overrides the standard functions (Output, MW, Glide and ARP unsynced rate).

**** MANUAL TAKEOVER MODE (TO)**

This prevents jumps when turning knobs that have a different value in the plugin GUI versus the hardware controller knob's state. Pressing this button temporarily blocks outgoing MIDI messages, enabling you to turn a knob to a position closer to the on screen value without creating an audible jump.

5.6 PLUGIN MENU



ROW 1 TRACK SELECT							
1	2	3	4	5	6	DAW ¹	AUTO TO MODE ²
ROW 2 PLUGIN MAP SELECT							
DIVA	TYRELL	REPRO 1	REPRO 5	UHE	UNLINK ³	INIT ⁴	PLUGIN MENU
MINI V	JUP-8 V	JUN-6 V		ARTURIA			

TRACK / PLUGIN MAP SELECT

You can use these six buttons to temporary 'store' plugin maps. To do this, first push one of the TRACK SELECT buttons and after that you can select a PLUGIN MAP. You can also map these buttons to a channel in your DAW. Plugin maps are automatically linked to the TRACK SELECT buttons so this makes it easy to select a track and the correct plugin mapping at the same time. Note: this memory gets reset every time you start up aurex CTRL.

If you are using Ableton, the **aurex LINK** device can be used instead of the TRACK and PLUGIN SELECT buttons. See the **ABLETON** chapter for more info.

¹ DAW MIDI MAP BUTTON

Turn this button **OFF** when mapping a DAW channel to the TRACK SELECT buttons, to avoid conflicting CC messages. This will prevent the TRACK SELECT buttons from sending out multiple CC messages. Try to MIDI map track select and arm buttons in your DAW to the same button. This way, the arm buttons will only be active when the corresponding track is selected. Any DAW that lets you MIDI map the track select and arm buttons can make use of this feature.

Turn this button back **ON** after the DAW MIDI mapping is done.

- When the DAW MIDI Map button is **OFF**, all the track select buttons act as momentary buttons, (sending out just one cc message) and do not affect each other.
- When the DAW MIDI Map button is dimmed **YELLOW**, all the track select buttons act as toggle buttons and do affect each other - you can now use these as 'exclusive arm' buttons.

TRACK SELECT MIDI MAPPING: STEP BY STEP GUIDE

1. press the MODEL menu button
2. press the PLUGIN menu button
3. PRESS THE DAW button (LED = **RED**)
4. open the DAW's MIDI map mode
5. select a track

6. push one of the TRACK SELECT buttons to map
The **CC should be on channel 16, CC 101 to 106**. Make sure you receive MIDI from RX CTRL, not from the Novation.
7. repeat step 5 and 6 for other tracks
8. close the DAW MIDI map mode
9. PRESS THE DAW BUTTON AGAIN (led = **YELLOW**)
10. select your track with the TRACK SELECT buttons

² **AUTOMATIC TAKEOVER MODE (TO)**

- works for one instance of Diva only -

This prevents jumps when turning knobs. The auto TO mode remembers which parameters you changed when tracking is **ON** and will only move the knob if you go over the stored value when TO is **ON**. Super handy when switching between shift and main mode. A value that has not yet been moved will start at the zero (minimum) position.

RED : tracking and takeover are inactive

ORANGE : tracking is active and takeover is inactive

YELLOW : tracking and takeover are active

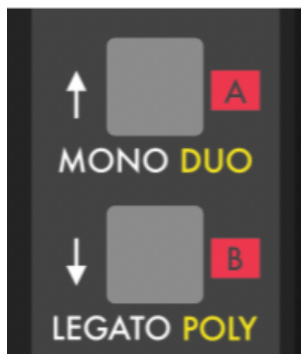
³ **UNLINK**

Press this button to unlink all the track buttons to the plugin maps.

⁴ **INITIALISE**

Press this button to initialise the plugin. All parameters will be reset to a very basic patch.

A AND B BUTTONS: PROGRAM CHANGE



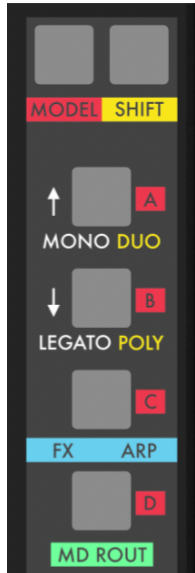
U-HE:

When the PLUGIN menu is active, you can change a patch with button **A** (program change up) and button **B** (program change down). The **Arturia** plugins already have this option in the MODEL menu.

You need to have some patches loaded into the MIDI Programs directory for this to work. More info about how program changes work on U-He synths can be found here:

<https://www.kvraudio.com/forum/viewtopic.php?t=436863>

6. FX CONTROL



6.1 FX CONTROL - SIDE

Activate the **FX / ARP** menu by pressing button **C** of the side **A B C D** buttons.

The **MODEL** button will start blinking to indicate that you are in the **FX control** menu. When activating this menu, the FX control menu is always selected first.

Push the **MODEL** button to select the **FX** menu.

Push the **SHIFT** button to select the **ARP** menu.

Note that not the **MODEL** and **SHIFT** buttons will be blinking to indicate you are in the FX/ARP menu and you can't select the **MODEL** or **SHIFT** menu at this time.

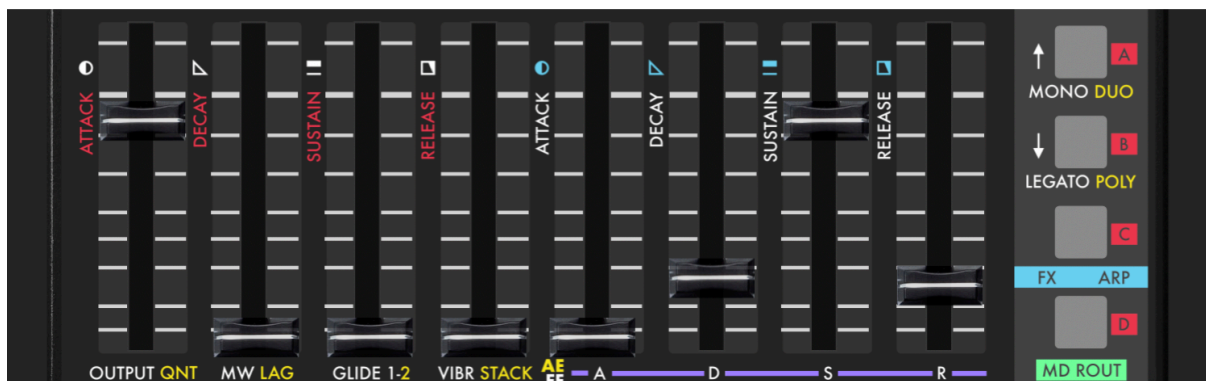
The **A B C D** buttons have no function in this menu except button **C** for turning the FX / ARP menu on or off.

6.2 FX CONTROL - KNOBS

The FX / ARP menu has no influence on the knob functions.

Every knob keeps working but you can't switch between **MAIN** and **SHIFT** menus anymore.

6.3 FX CONTROL - FADERS



In the FX menu, the faders are set up as follows:

DIVA : Check out how to setup Diva to receive FX control in [THIS GUIDE](#).

Faders 1-4 control parameters for EFFECT 1

Faders 5-8 control parameters for EFFECT 2

	FADER 1 / 5	FADER 2 / 6	FADER 3 / 7	FADER 4 / 8
CHORUS	Type	Rate	Depth	Wet
PHASER	Type	Rate / Beats	Feedback	Wet
DELAY	Left	Center + Right	Wow + Feedback + HP + LP	Side Vol
PLATE	PreDelay	Damp	Decay + Size	Wet

REPRO

Faders 1-4 control parameters for selected effect 1

Faders 5-8 control parameters for selected effect 2

Make sure you have activated the FX CHAIN buttons and deactivated the BYPASS FX button.
(unfortunately these are not MIDI mappable)

	FADER 1	FADER 2	FADER 3	FADER 4
R1 JAWS	Folds	Teeth	Bias	B-Mod
R5 DISTORTION	Type	Amount / Rate	Tone / Crush	Mix
R5 VELVET	Input Gain	-	-	-
LYREBIRD	Modulation	Time	Regen	Mix
	FADER 5	FADER 6	FADER 7	FADER 8
RESQ	Bass Gain	Mid Gain	High Gain	Q / Res
SONICON	Gain	Transient	Width	-
DRENCH	Pre Delay	Tone	Decay	Dry / Wet

MINI V

Faders 1-4 control parameters for the Delay effect

Faders 5-8 control parameters for the Vocal Filter effect

	FADER 1	FADER 2	FADER 3	FADER 4
DELAY	Time L+R	Feedback Left	Feedback Right	Dry / Wet
	FADER 5	FADER 6	FADER 7	FADER 8
VOCAL FILTER	Q	LFO on / off	LFO Rate	Dry / Wet

JUP-8 V

Faders 1-5 are free for your own JUP-8 V effects mappings. Have fun!

Faders 6-8 control the Dry / Wet balance for FX 1, 2 and 3.

	FADER 1	FADER 2	FADER 3	FADER 4
FREE	CC 106 (free to map)	CC 108 (free to map)	CC 109 (free to map)	CC 110 (free to map)
	FADER 5	FADER 6	FADER 7	FADER 8
DRY WET FX 1-3	CC 111 (free to map)	Dry / Wet 1	Dry / Wet 2	Dry / Wet 3

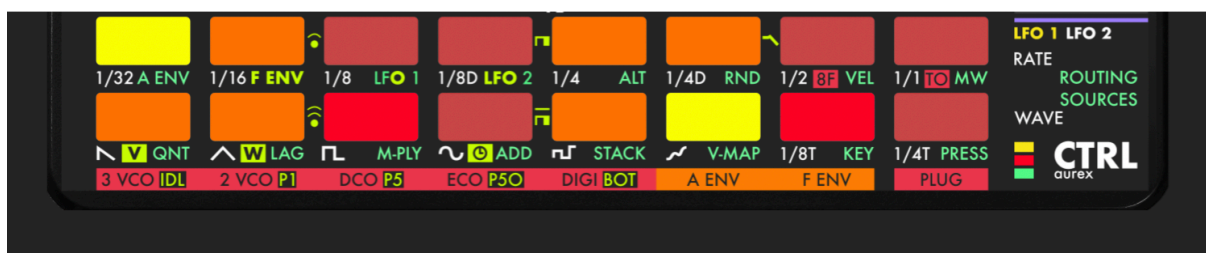
JUN-6 V

Faders 1-4 control parameters for the Delay effect

Faders 5-8 control parameters for the Reverb effect

	FADER 1	FADER 2	FADER 3	FADER 4
DELAY	Time	Feedback	Stereo	Dry / Wet
	FADER 5	FADER 6	FADER 7	FADER 8
REVERB	Size + Decay	Damp	Pre Delay	Dry / Wet

6.4 FX CONTROL - BUTTONS



U-HE

	FX SELECT		FX PRESETS		FX SELECT		FX PRESETS	
Diva	CHORUS	PHASER	1	2	CHORUS	PHASER	1	2
	DELAY	PLATE	RESET	3	DELAY	PLATE	RESET	3
Repro 1	JAWS	-	1	2	RESQ	SONIC	1	2
	LYREB	RESET	3	4	DRENCH	RESET	3	4
Repro 5	DISTO	VELVET	1	2	RESQ	SONIC	1	2
	LYREB	RESET	3	4	DRENCH	RESET	3	4

ARTURIA

	FX ACTIVATE	FX PRESETS			FX ACTIVATE	FX PRESETS		
MINI V	DELAY	1	2	3	VOCAL FILT	1	2	3
	CHORUS	1	2	3	-	-	-	-
JUP 8 V	FX 1	D/W 25	D/W 50	D/W 100	FX 2	D/W 25	D/W 50	D/W 100
	FX 3	D/W 25	D/W 50	D/W 100	-	-	-	-
JUN 6 V	DELAY	1	2	3	REVERB	1	2	3
	CHORUS	TYPE I	TYPE II	NOISE	-	-	-	-

6.5 FX CONTROL - UHE DIVA

MIDI CHANNEL SETUP

The aurex CTRL MIDI assign file for U-He Diva is configured to receive

- all synth related data on MIDI **CHANNEL 1**
- all FX and ARP control data on MIDI **CHANNEL 2** *

* Envelope Velocity and Keyboard amount is also being sent from Channel 2.

There just were too many functions in Diva to fit onto one MIDI Channel only.

Tyrell, Repro 1/5 or the Arturia synths have all their parameters assigned to Channel 1 and don't require any special setup.

ABLETON MIDI SETUP

Ableton Live merges all MIDI data that is received on track input to MIDI CHANNEL 1.

The synth data (on ch 1) and FX data (on ch 2) get merged and both will send to channel 1, resulting in conflicting CC's.

To control Diva's FX and ARP in Ableton Live, setup is as follows when using the aurex LINK device:

MIDI TRACK 1	MIDI TRACK 2	MIDI TRACK 3 (if you need this)
Diva Plugin	-	
INPUT TYPE		
aurex LINK Input (RX CTRL)	aurex LINK Input (RX CTRL)	OTHER CONTROLLERS
INPUT CHANNEL		
Ch. 1	Ch. 2	ANY OTHER CHANNEL
MONITORING		
In or Auto with Arm activated	In or Auto with Arm activated	In or Auto with Arm activated
OUTPUT TYPE		
Master (as audio)	Track 1 (to the Diva Plugin)	Track 1
-	OUTPUT CHANNEL	
	Ch. 2	Ch. 1

7. ARP CONTROL

7.1 ARP CONTROL - SIDE



Activate the **FX / ARP** menu by pressing button **C** of the side **A B C D** buttons.

The **MODEL** button will start blinking to indicate that you are in the **FX control** menu. When activating this menu, the FX control menu is always selected first.

Push the **MODEL** button to select the **FX** menu.

Push the **SHIFT** button to select the **ARP** menu.

Note that not the **MODEL** and **SHIFT** buttons will be blinking to indicate you are in the FX/ARP menu and you can't select the **MODEL** or **SHIFT** menu at this time.

A B DIVA / REPRO 1 / JUN-6 V

Button **A** and button **B** will briefly light up to indicate what the state of the ARP mode is (played, up, down or up+down).

A B REPRO 5

When you select one of the 8 voices with the **VOICE SELECT** buttons, you can change the panning for that voice with button **A** (right) and button **B** (left).

The last 4 buttons of ROW 2 will graphically show you the value with their LEDs. This function is not memorised at the moment, so changing the value will always start from the center position.

7.2 ARP CONTROL - KNOBS

The FX / ARP menu has no influence on the knob functions.

Every knob keeps working but you can't switch between MAIN and SHIFT menus anymore.

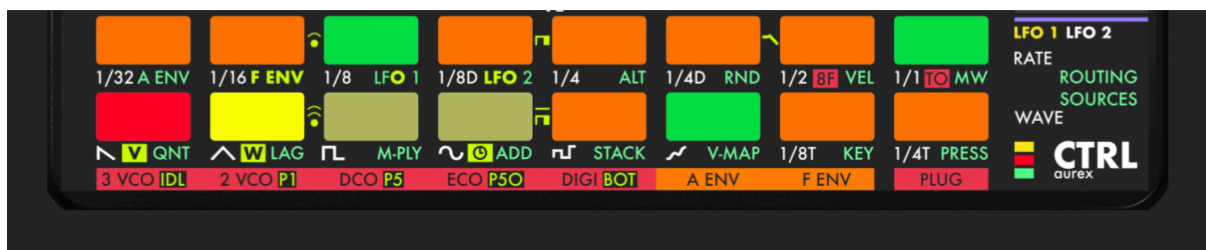
7.3 ARP CONTROL - FADERS

The ARP control menu has no influence on the fader functions.

Every fader keeps working but you can't switch between MAIN and SHIFT menus anymore.

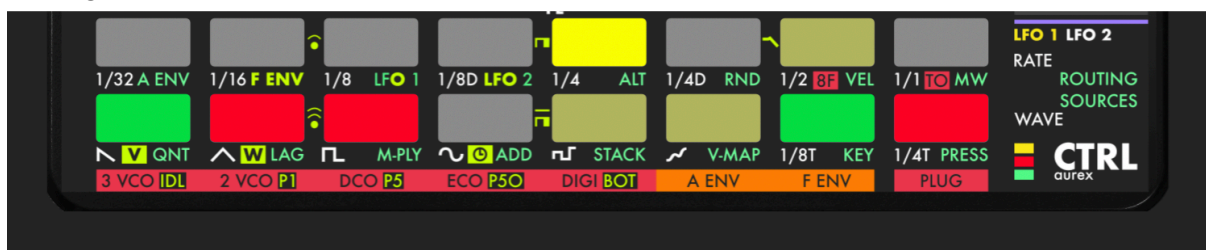
7.4 ARP CONTROL - BUTTONS

DIVA



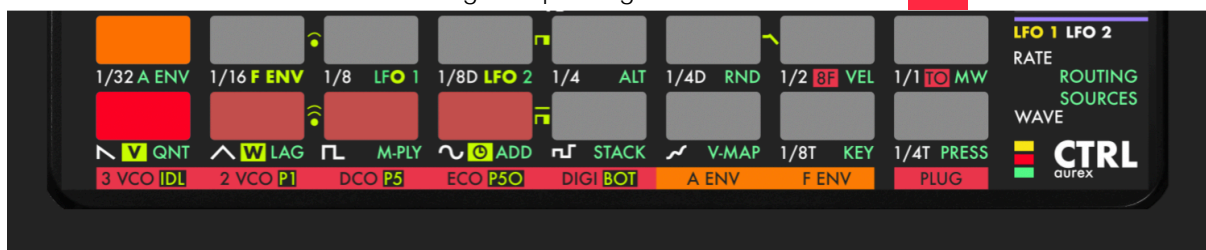
ARP CLOCK				ARP MODE			
1/32	1/16	1/8	1/4	Played	Up	Down	up+dn 1
ACTIVE	SWING ON / OFF			ARP MODE			
ON / OFF	Swing 12	Swing 24	Swing 35	1 Oct	2 Oct	3 Oct	4 Oct

REPRO 1



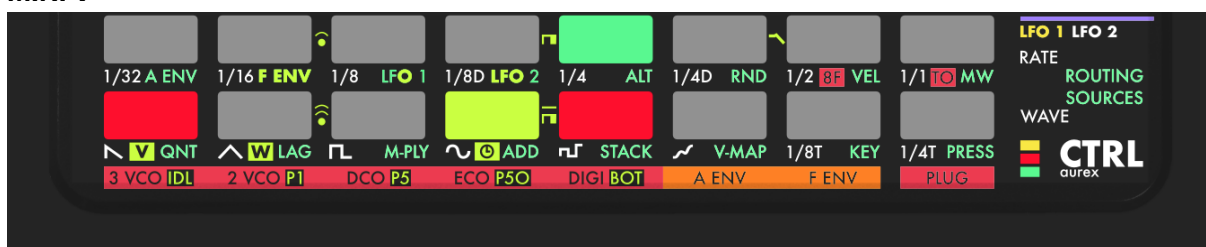
ARP SETTINGS				SEQUENCER SETTINGS			
				PATTERN 1	PATTERN 2	PATTERN 1+2	
SOURCE	MODE	LATCH		REC	OFF	PLAY	INSERT REST
LFO KEY CLOCK	UP OFF UP/DWN	ON OFF					

REPRO 5 - VOICE PAN - You can change the panning for each voice with the **AB** buttons.



VOICE SELECT							
Voice 1	Voice 2	Voice 3	Voice 4	Voice 5	Voice 6	Voice 7	Voice 8
PRESET SELECT				PANNING LEDS			
RESET	1	2	3	LEFT	LEFT	RIGHT	RIGHT

MINI V



ARP SPEED							
1/32	1/16	1/8	-	1/4	-	1/2	1/1
ARP FUNCTIONS							
ON / OFF			SYNC	SUSTAIN		1/8T	1/4T

Unfortunately, Arturia doesn't allow more MIDI mappings in the ARP section of MINI-V. Let's hope this changes in future updates. Let them know.

JUP-8 V

ARP SPEED							
1/32	1/16	1/8	1/8D	1/4	1/4D	1/2	1/1
ARP FUNCTIONS							
ON / OFF	MODE*		SYNC	SUSTAIN		1/8T	1/4T

*MODE MENU							
UP	DWN	ORD	REV	INC	EXC	RND	
	MODE		RANGE 1	RANGE 2	RANGE 3	RANGE 4	

JUN-6 V

	Diva ENV 1/2 0 - 25 - 50 - 75 - 100	Repro ENV 1/2 0 - 25 - 50 - 75 - 100
A	ENV VEL DEPTH CYCLE	ENV VEL DEPTH UP
B	ENV KYBD DEPTH CYCLE	ENV VEL DEPTH DOWN

ARP SPEED							
1/32	1/16	1/8	1/8D	1/4	1/4D	1/2	1/1
ARP FUNCTIONS							
ON / OFF	<div>UP</div> <div>UP&DWN</div> <div>DOWN</div>	<div>RANGE 1</div> <div>RANGE 2</div> <div>RANGE 3</div>	SYNC	SUSTAIN (HOLD)		1/8T	1/4T

8. MD ROUT

Diva - Repro - Mini V

8.1 MD ROUT - KNOBS



Depending on the selected oscillator model or Plugin, the LEDs have a different color:

- **GREEN**: when in the Modulation Routing menu, knobs with a green LED underneath are available as a modulation **destination**
- **RED**: the default function, used for most of the oscillator models and printed in white text
- **ORANGE**: the secondary function, used for some oscillator models and printed in orange text
- **LIME**: Repro exclusive functions or special features in Diva
- **OFF**: when the knob / function is not available for the selected model / page

8.2 MD ROUT - FADERS

The MD ROUT menu has no influence on the fader functions.

Every fader keeps working and you can still switch between MAIN and SHIFT menus.

8.3 MD ROUT - SIDE



8.4 MD ROUT - BUTTONS: UHE



Select modulation sources with the 16 buttons on the bottom of the Launch Control XL and assign them to any knob with a green LED underneath. Turning the knob will automatically assign the selected modulation source to that destination and change the depth of that same modulation.

When using Diva, there are modulation destinations available for both the MAIN and the SHIFT pages.

DIVA

² **SLOT 7** is pre-assigned to control the oscillator FM. Turning the **FM knob** (on the aurex CTRL cover) with the Launch Control XL automatically assigns the MOD 7 **destination** to VCO 123 FM and changes its modulation depth.

This happens even if you're not in the MD ROUT menu. You do need to assign a modulation **source** first if you want to hear any effect on your sound.

You can override this assignment by choosing a different **destination** in the MD ROUT MENU, but when doing that you lose the ability to use the aurex CTRL FM knob.

³ **SLOT 8** is pre-assigned to control the oscillator PWM. Turning the **SH-M knob** (on the aurex CTRL cover) with the Launch Control XL automatically assigns the MOD 8 **destination** to VCO 123 PWM and changes its modulation depth.

This happens even if you're not in the MD ROUT menu. You do need to assign a modulation **source** first if you want to hear any effect on your sound.

You can override this assignment by choosing a different **destination** in the MD ROUT MENU, but when doing that you lose the ability to use the aurex CTRL SH-M knob.

DIVA - MOD SOURCES							
Amp Env	Filt Env	LFO 1	LFO 2	Altern	Random	Velocity	ModWh
Quantise	Lag	Multiply	Add	Stack	Voice-Mp	Keyboard	Pressure

You can assign the modulation sources to **Quantise**, **Lag**, **Multiply** and **Add** as follows:

- activate the Modulation Routing menu
- press one of the modulation processor buttons (Quantise, Lag, Multiply or Add), hold it and press the 'MD ROUT' button at the same time. The LED of these buttons turns yellow instead of green.
- select one of the other modulation sources (A ENV, F ENV, LFO 1, ...) for Quantise and Lag or two sources for Multiply and Add by pressing one of the other buttons. If you want, you can even select the same source as the modulation processor.

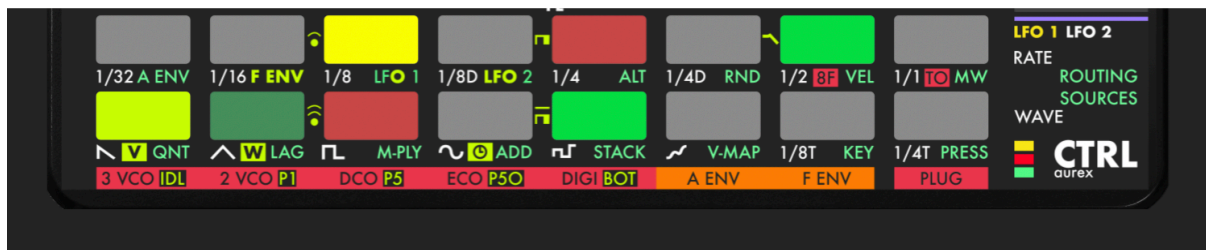
REPRO (to Repro 1 Perform / Repro 5 Matrix)

REPRO - MOD SOURCES							
Amp Env	Filt Env	LFO 1	-	-	-	Velocity	ModWh
V	W	-	-	-	R5 V-MAP	Keyboard	Pressure

The **V** and **W** buttons inside Repro's MD ROUT menu are used to activate the **VOICE MOD MENU** and **WHEEL MOD MENU**. Here you can assign Repro's modulation toggle switches to their correct destinations.

The LEDs under the knobs that these sources are modulating reflect the current modulation state (**WHEEL**, **OFF** or **DIRECT**). This way you get a visual indication to which function the source is modulating.

Repro VOICE and WHEEL menu



REPRO 1 - VOICE MOD PAGE							
		OSC A FREQ		OSC A PW		FILTER CUTOFF	
		WHEEL		WHEEL		WHEEL	
		OFF		OFF		OFF	
		DIRECT		DIRECT		DIRECT	
VOICE MOD		OSC B FREQ		OSC B PW			
		WHEEL		WHEEL			
		OFF		OFF			
		DIRECT		DIRECT			
REPRO 1 - WHEEL MOD PAGE							
	FILT ENV	OSC B	LFO				
	WHEEL	WHEEL	WHEEL				
	DIRECT	DIRECT	DIRECT				
	WHEEL MOD						

REPRO 5 - VOICE MOD PAGE							
		OSC A FREQ		OSC A PW		FILTER CUTOFF	
		OFF		OFF		OFF	
		ON		ON		ON	
VOICE MOD							
REPRO 5 - WHEEL MOD PAGE							
		OSC A FREQ		OSC A PW		FILTER CUTOFF	
		WHEEL		WHEEL		WHEEL	
		OFF		OFF		OFF	
	WHEEL MOD	OSC B FREQ		OSC B PW			
		WHEEL		WHEEL			
		OFF		OFF			

8.5 MD ROUT - BUTTONS: MINI-V

MINI V - MOD SOURCES							
Amp Env	Filt Env	OSC 3	LFO	RESET DEPTH ¹	Random	Velocity	ModWh
SLOT 1	SLOT 2	SLOT 3	SLOT 4	SLOT 5	SLOT 6	SLOT 7 ²	SLOT 8 ³

Procedure:

- Select one of the 8 different modulation slots.
- Choose a modulation source with the green buttons.
- Turn a knob with a green LED underneath it to assign a destination and change the mod depth.

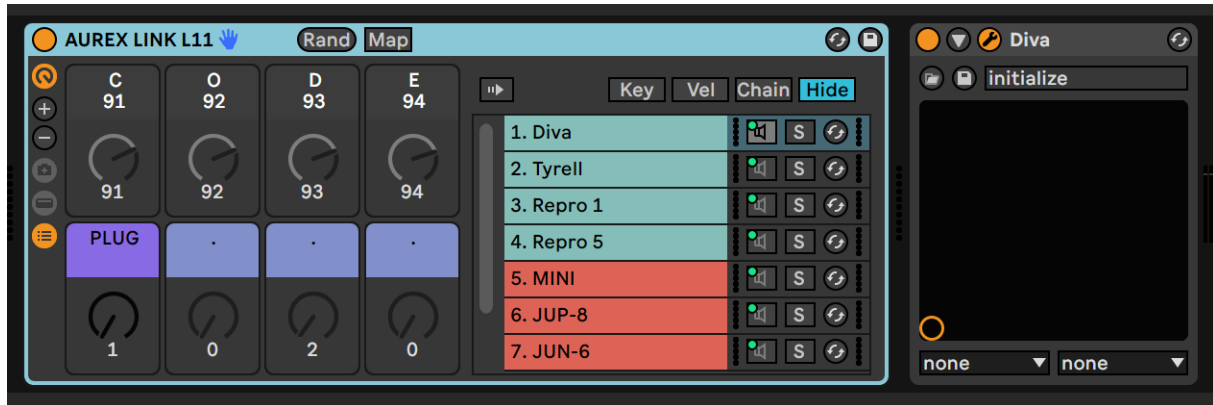
¹ **RESET DEPTH** resets the modulation depth for the selected modulation slot.



9. ABLETON

Ableton users can use the **aurex LINK** MIDI device for extra functionality.

You can use this to automatically switch to the correct plugin map when you select another track. This way, **you don't need to use the PLUGIN SELECT buttons in the PLUGIN menu anymore.**



AUREX LINK USER REMOTE SCRIPT

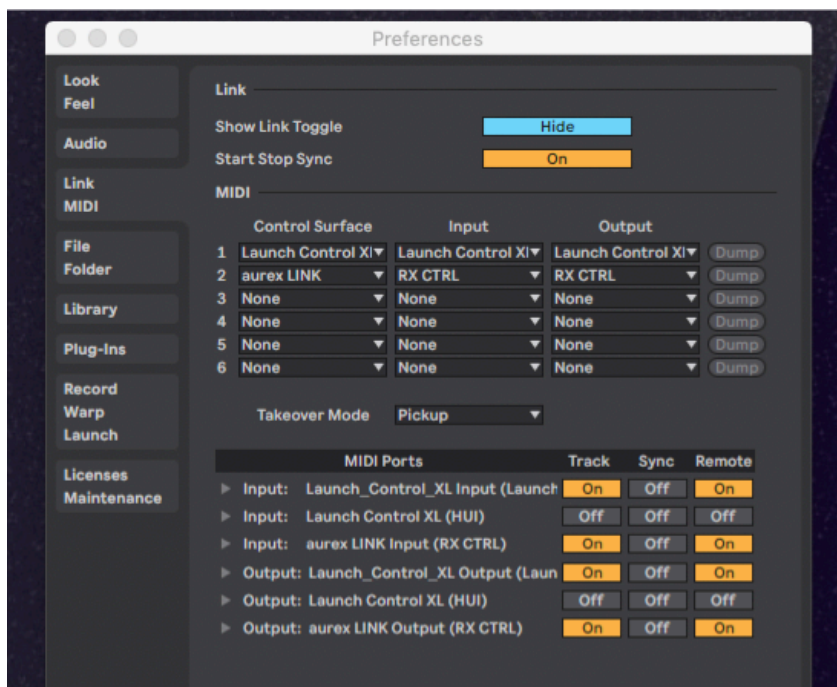
- move the “aurex LINK” folder to Live's Preferences folder:

Mac: HD:/Users/[Username]/Library/Preferences/Ableton/Live x.x.x/User Remote Scripts

Windows: C:\Users\[Username]\AppData\Roaming\Ableton\Live x.x.x\Preferences\User Remote Scripts

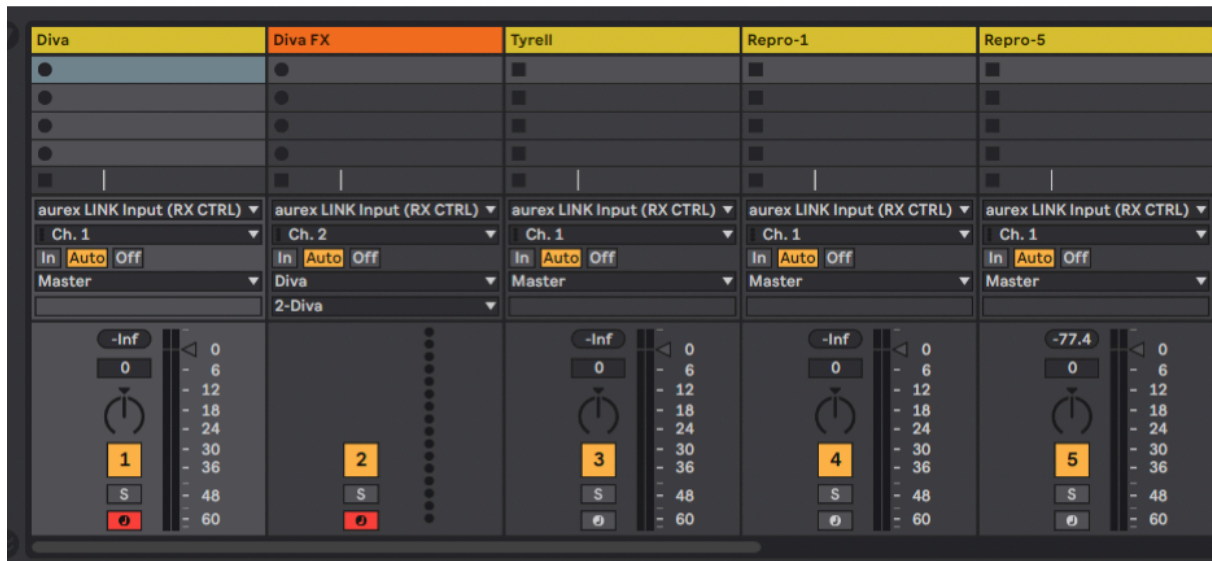
AUREX LINK PREFERENCES SETUP

- select **aurex LINK** as a Control Surface.
- make sure the input and output both are **RX CTRL**.
- activate the **Track** and **Remote** buttons for both the aurex LINK **Input** and **Output** ports.



ABLETON MIDI TRACK SETUP

- select the correct MIDI type and channel for the tracks' Input and Output.
Please refer to the **FX CONTROL** chapter for a detailed overview of this setup.



- insert the **aurex LINK** MIDI device (one of the included **.adg** files) as the first device of that track, before all other MIDI devices and before the U-He plugin
- leave the **CODE** macro knobs at 91, 92, 93 and 94. These are used to provide a kind of keycode to the MT Player so it doesn't switch the plugin maps when you select other Ableton devices.
- choose the desired plugin map (Diva, Tyrell, Repro 1, Repro 5, MINI, JUP-8 or JUN-6) with the **PLUG** macro knob

Each time you **select** the AUREX LINK device by clicking its Title Bar, it will send a MIDI message to the MT Player to switch to the chosen plugin map.

If you make sure the last selected device on a track is the aurex LINK device, aurex CTRL will switch to the correct plugin map when you switch tracks (Live will automatically select the last edited device of a track, so just selecting a track will also select the device at the same time).

If you think you will forget to select the LINK device after editing other devices, you can use the optional **RX SELECT** Max For Live device which will select the first MIDI device on a track when selecting that same track.

Make sure the track you want to control is ARMED (record on) when monitor is set to 'Auto'.

10. PROBLEM SOLVING

JUST FOR NOW:

- Close your DAW and Plugins.
- Connect your Launch Control XL directly to your computer's USB port if possible.
- Use as few other MIDI controllers as possible to make sure they aren't interfering with the problem.
- Windows users: check that you don't have other software that can make use of the aurex CTRL MIDI port. If the port is already used for another application, it can't be used a second time for your DAW.

STEP 1

INSTALLATION OF THE NOVATION .SYX FILE

1. go to the Novation components website:
2. install the aurex CTRL.syx file (in the NOVATION folder of aurex CTRL) onto user preset 1 of your Launch Control XL

CHECK

Open your DAW to check if the installation went right.

1. Select User 1 on the Launch Control (where you installed the .syx file).
2. All the LEDs on your Launch Control XL should be OFF now.
3. Open your DAW and create a new MIDI track.
4. Select the Novation Launch Control XL as MIDI input, NOT aurex CTRL for now.
5. verify if the Novation sends out MIDI data on Channel 16 if you turn its knobs.*

* Ableton: you can do this by choosing MIDI FROM --> Launch Control XL and then press ALL CHANNELS. Leave the tab open and check if the lights blink on channel 16 when you turn a knob. You can also use a program like <https://www.snoize.com/midimonitor/> to verify this.

STEP 2

INSTALLATION OF THE MT PLAYER

1. Install the MT Player application
2. Drag and drop the aurex CTRL.bmte file on the MT Player window
3. Only if asked for: insert the license key (included in the 'MT Player' folder of the aurex CTRL bundle)
4. If your Launch Control XL is connected, the MT Player should automatically find this. If the player can't find your Launch Control XL, you will see an extra option here to select its INPUT and OUTPUT when starting up the MT Player.
5. Select your MIDI Keyboard for the KEYS INPUT field if you need this. If not, leave this set to (no assignment) and press OK or CANCEL.
6. DO NOT CLOSE THE MT PLAYER window.
It needs to remain open as this creates your virtual MIDI port

CHECK

1. After you open MTPlayer with the aurex CTRL.bmte file you should see a LED animation on your Launch Control XL
2. Verify if the MIDI IN and OUT LEDs on the GUI of the MT Player light up if you turn a knob on the Launch Control XL.

STEP 3

INSTALLATION OF THE PLUGIN MIDI ASSIGNMENTS

UHE

1. Close your DAW and plugins.
2. Replace the original MIDI assign files located in
MAC: [you] / Library / Application Support / u-he / com.u-he.(Diva).midiassign.txt*
WIN: ... \ VstPlugins \ u-he \ Diva.data \ Support \ com.u-he.(Diva).midiassign.txt
with the midi assign.txt files you can find in the aurex CTRL UHE folder.

ARTURIA

1. Open the MINI V, JUP-8 V and JUN-6 V in your DAW or standalone.
2. Go to settings
3. Go to the MIDI tab and select Generic MIDI Controller
4. In the MIDI Config field, select Import Config and load the configuration file from the aurex CTRL Arturia folder

CHECK

UHE: open your plugin and press the system settings wheel on the GUI (top corner on the right). Now you can see 3 menus. The first one 'L' is for learning, the second (MIDI TABLE) is where all the mapped CC settings are. You should see more than 100 mapped parameters there. If that's not the case, the MIDI assign installation for the U-He plugins went wrong.

ARTURIA: open your plugin and press the system settings wheel on the GUI (top corner on the right) and select the MIDI menu. Verify if MIDI controller is set to Generic MIDI Controller and MIDI Config is set to aurex CTRL. You should see more than 100 mapped parameters there. If that's not the case, the MIDI assign installation for the ARTURIA plugins went wrong.

STEP 4

SETUP OF YOUR DAW

Send MIDI data from the **RX CTRL MIDI port** to the desired plugin on MIDI Channel 1 (Diva requires MIDI Channel 1 for synth related data and Channel 2 for FX data).
See the **FX CONTROL** chapter for more info.

! Make sure you don't send data twice - for example: from the Launch Control XL and the RX CTRL Port at the same time - as this will result in conflicting CC messages.

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Launch Control XL **Overlay** Production and Print: TAKTILITY
MT Player RX CTRL software: BOME
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