# Special Thanks

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**Product version: 2.1**

**Revision date: 30 March 2021**
Thank you for purchasing KeyLab MkII!

This instruction manual covers the use of Arturia’s KeyLab MkII, and provides specific details on its features so you can take full advantage of this powerful keyboard controller.

In this package you will find:

- KeyLab MkII controller keyboard
- USB cable
- An anti ground loop adapter
- DAW Commands section overlay panels
- Quick Start Guide This document provides a few simple steps to get your KeyLab MkII up and running, along with the codes you need to register the unit and activate the included software titles:
  - Analog Lab
  - Ableton Live Lite
  - Piano V2

Be sure to register your KeyLab MkII as soon as possible! There is a sticker on the bottom panel that contains the serial number of your unit and an unlock code. These are required during the online registration process. You may want to record these elsewhere or take a photo of the sticker in case it becomes damaged.

Registering your KeyLab MkII provides the following benefits:

- It enables you to activate the Analog Lab software, with over 6,000 amazing presets
- It allows you to receive special offers restricted to KeyLab MkII owners.
Special Message Section

Specifications Subject to Change:

The information contained in this manual is believed to be correct at the time of printing. However, Arturia reserves the right to change or modify any of the specifications without notice or obligation to update the hardware that has been purchased.

IMPORTANT:

The product and its software, when used in combination with an amplifier, headphones or speakers, may be able to produce sound levels that could cause permanent hearing loss. DO NOT operate for long periods of time at a high level or at a level that is uncomfortable.

If you encounter any hearing loss or ringing in the ears, you should consult an audiologist.

NOTICE:

Service charges incurred due to a lack of knowledge relating to how a function or feature works (when the product is operating as designed) are not covered by the manufacturer’s warranty, and are therefore the owner’s responsibility. Please study this manual carefully and consult your dealer before requesting service.

Precautions include, but are not limited to, the following:

1. Read and understand all the instructions.
2. Always follow the instructions on the instrument.
3. Before cleaning the instrument, always remove the USB cable. When cleaning, use a soft and dry cloth. Do not use gasoline, alcohol, acetone, turpentine or any other organic solutions; do not use a liquid cleaner, spray or cloth that’s too wet.
4. Do not use the instrument near water or moisture, such as a bathtub, sink, swimming pool or similar place.
5. Do not place the instrument in an unstable position where it might accidentally fall over.
6. Do not place heavy objects on the instrument. Do not block openings or vents of the instrument; these locations are used for air circulation to prevent the instrument from overheating. Do not place the instrument near a heat vent at any location with poor air circulation.
7. Do not open or insert anything into the instrument that may cause a fire or electrical shock.
8. Do not spill any kind of liquid onto the instrument.
9. Always take the instrument to a qualified service center. You will invalidate your warranty if you open and remove the cover, and improper assembly may cause electrical shock or other malfunctions.
10. Do not use the instrument with thunder and lightning present; otherwise it may cause long distance electrical shock.
11. Do not expose the instrument to hot sunlight.
12. Do not use the instrument when there is a gas leak nearby.
13. Arturia is not responsible for any damage or data loss caused by improper operation of the instrument.
Introduction

Congratulations on your purchase of Arturia’s KeyLab MkII!

KeyLab MkII is a class-compliant MIDI controller keyboard, capable of harnessing the power of practically any software instrument and DAW. It has been designed to enhance your workflow so you can spend less time using computer peripherals and focus on creating music. KeyLab MkII integrates seamlessly with Arturia’s Analog Lab software, placing over 6,000 presets from 21 instruments at your fingertips.

Main features of the KeyLab MkII:

- Use with any MIDI software, plug-in, or device
- Integrate with modular synthesizers via CV input and 4 output connectors (CV, Gate, Mod 1, Mod 2)
- Track / transport control of the most popular DAWs
- Fast sorting of Analog Lab presets helps you find the perfect sound quickly
- 49 or 61 semi-weighted keys with velocity- and pressure-sensitivity (channel aftertouch)
- 88-note hammer action keybed with velocity and pressure sensitivity (channel aftertouch)
- Pitch bend / modulation wheels
- Three banks of 9 MIDI-assignable knobs, faders, and RGB buttons, pre-configured to work with Analog Lab instruments
- 16 backlit RGB pads with velocity- and pressure-sensitivity (polyphonic aftertouch)
- Chord mode features with dozens of preset chords (user-configurable)
- Works with the MIDI Control Center software to edit control assignments and global settings
- 32-character LCD screen
- Connectors: MIDI In / Out, USB, sustain pedal, expression pedal, Aux pedal (x3), CV input, Pitch out (CV), Gate out, Mod 1 Out, Mod 2 out

Be sure to visit the www.arturia.com website and check for the latest firmware, download the MIDI Control Center, and check out the tutorials and FAQs. We are sure KeyLab MkII will help take your creativity to the next level.

Musically yours,

The Arturia team
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1. GETTING STARTED

1.1. Connecting KeyLab MkII

We recommend that you install Analog Lab and the other included software before reading this manual. Be sure to register and authorize the software on the Arturia website.

Next, connect KeyLab MkII to your computer using the included USB cable. Power is also supplied through this connection.

KeyLab MkII is a class-compliant USB device, so its drivers are automatically installed when connecting to a computer. Your controller keyboard will be ready to use within a few seconds after power-up.

If you’d like to use KeyLab MkII to control external devices without a computer attached, simply use an optional 9-12v DC 1.0A power supply. Then connect your system as explained below:

- **MIDI devices**: Connect a MIDI cable between KeyLab MkII’s MIDI Out connector and the MIDI In connector of one of the external devices. From there you can daisy-chain the MIDI signal through the devices. Better yet, use a MIDI patchbay; this will help avoid an accumulation of lag time as the data passes through each device.

- **Control Voltage devices**: Connect high-quality 1/8" TS cables between a modular analog system and the CV In/Out/Gate/Mod1/Mod2 connectors on the rear panel of the KeyLab MkII.
1. **Octave, Chord & Transpose buttons** These buttons activate KeyLab MkII’s various pitch control and chord functions.

2. **Pitch & Mod wheels** These are used to control pitch bend and modulation parameters of your sound.

3. **Pad mode buttons** The three buttons to the left of the pads are used to switch between pad modes. The Pad button selects the settings from the User preset; the two lower buttons select different Chord modes.

4. **Performance Pads** The pads can be used to trigger samples within your DAW, play chords on software/hardware instruments, and/or send all sorts of MIDI data including polyphonic aftertouch (they’re pressure-sensitive). Each pad can have a different setting within each mode.

5. **MIDI Channel selection keys** Hold the MIDI Ch button and press one of the first 16 keys to select the User MIDI channel.

6. **DAW Commands / User section** This section controls various functions within your preferred audio recording software, including track controls like Solo and Mute plus other commands. If you own one of the DAWs listed here [p.34], use the matching magnetic overlay to relabel the buttons (included).

7. **Transport controls** The transport section offers standard features to control your DAW: Record, Play, Loop, etc. The transport controls are always available in all three modes (Analog Lab, DAW, and User).
1.3. The Front Panel (right)

1. **Preset Browser & Display** This section is used to select presets in Analog Lab, navigate menus, and display parameter and preset information.

2. **Control buttons** This section of 3 buttons is used in Analog Lab mode to switch between the 2 parts in Multi Mode, select the Live tab in Analog Lab, and set the split point between Parts 1 and 2. In DAW mode they’re used to select the track group in increments of 1 or 8.

3. **Encoders** The rotary knobs are used to control software instrument parameters, as well as channel pan within your DAW.

4. **Faders** The faders are used to alter software instrument parameters, as well as to change the volume of channels within your DAW.

5. **Filter / Select buttons** These buttons are used to filter preset types in Analog Lab mode, select or control tracks in DAW mode, and perform user-defined functions in User mode.

6. **User Parameters** The keys in the upper octave are used as shortcuts [p.50] in User Edit mode [p.47].

> Most controls on the KeyLab MkII can be assigned to custom MIDI commands in User Edit mode [p.47] or by using the MIDI Control Center [p.65].
1.4. The Rear Panel

1. **Pitch/Gate/Mod outputs** These four connectors allow the KeyLab MkII to send control voltages and triggers to a modular synthesis system. The voltage ranges may be defined in User Edit mode [p.47] or by using the MIDI Control Center [p.65].

2. **MIDI In / Out** KeyLab MkII’s MIDI Out connector will send USB / MIDI data to external devices, and can do so without a computer when powered with the optional power supply. The MIDI In connector receives MIDI data from external devices, and also serves as a MIDI / USB converter for your DAW.

3. **Aux 1/2/3 Pedal Inputs** These three pedal inputs can be used with a continuously variable pedal or a footswitch. They can be assigned to any MIDI CC number from within the KeyLab MkII [p.45] or by using the MIDI Control Center [p.65].

4. **Expression Pedal Input** The Expression pedal input can be used with a continuously variable pedal or a footswitch. It sends MIDI CC# 11 by default, but it can be reassigned from within the KeyLab MkII [p.45] or by using the MIDI Control Center [p.65].

5. **Sustain Pedal Input** The Sustain pedal input automatically detects the polarity of the pedal when KeyLab MkII is turned on, so it can be used with any standard pedal. It also can be configured to work as a continuously variable pedal from the front panel of the KeyLab MkII [p.45] or by using the MIDI Control Center [p.65].

6. **CV In** Use this connector to route a control voltage output from a modular synthesizer into the KeyLab MkII. This input can be used as a CV-to-MIDI converter and/or a CV-to-USB converter. The voltage range may be defined from the front panel or using the MIDI Control Center [p.65].

7. **USB Connection** Use this to connect KeyLab MkII to your computer. This port provides both power, MIDI data, and control information.

8. **Power connector** If you’d like to use KeyLab MkII as a controller without a computer attached, connect an optional 9-12v DC 1.0A power supply here.

9. **Power switch** This on/off switch works the same whether the unit is powered by USB or by the AC adapter: up is on, down is off.
1.4.1. Something to consider: Ground loops

A ground loop is an unwanted current in a conductor connecting two points. The result is noise in your audio signal, usually in the form of a low-frequency hum. In setups involving computers, CV/Gate connections, and audio devices, it's possible to end up with an annoying ground loop. We have provided a solution, however: the anti ground loop adapter.

1.4.1.1. When should I use the anti ground loop adapter?

In most cases you will not need the anti ground loop adapter.

If you don’t have a ground loop problem in your setup, simply connect the KeyLab MkII with the supplied USB cable to a computer or with an optional 9-12v DC 1.0A power supply.

You should use the included anti ground loop adapter if you experience background noise in your speakers that disappears when you disconnect the KeyLab MkII from your computer or from the CV/Gate connections to your analog gear. A ground loop can also cause problems with pitch tracking when using the KeyLab MkII CV connections with analog synthesizers.

Connect the anti ground loop adapter as follows:
2. OVERVIEW

2.1. Keyboard

KeyLab MkII features a synth-action keyboard that is both velocity and pressure-sensitive. The 88-note version features a hammer action keybed. The keys can be used as shortcuts [p.9] to access parameters in User mode. For example, holding the MIDI Ch button and tapping one of the lowest 16 keys will select the User MIDI channel (see below).

### 2.1.1. Changing the MIDI Channel

The MIDI channel of the KeyLab MkII can be changed by holding the MIDI Ch button and pressing one of the first 16 keys on the keyboard. After this all controls that have been set to follow the User MIDI Channel will change to that channel.

For example, to change KeyLab MkII’s MIDI output to channel 8, hold the MIDI CH button and hit the lowest G on the keyboard.

### 2.1.2. The keyboard shortcuts

Certain keys on the keyboard can be used with front-panel buttons to provide shortcuts to settings such as the User MIDI Channel, Global settings, and various User Edit mode parameters. For a complete listing of these features, click here [p.50].
2.2. Pitch and modulation wheels

These controllers allow for real-time pitch bend and modulation control.

Moving the Pitch Wheel up or down will raise or lower the pitch of the selected sound. The range of this effect is set within the hardware or software instrument being controlled.

Moving the Modulation Wheel up increases the modulation amount of the selected sound. The response depends on the settings of the instrument being controlled. The Modulation Wheel is assigned to MIDI CC# 1 by default, but it can be reassigned from the front panel [p.45] or using the MIDI Control Center [p.65].

ℹ️ The Pitch Wheel cannot be reassigned to send another type of MIDI data.
2.3. Octave control and Transpose

Pressing the Oct - and/or Oct + buttons will shift the range of KeyLab MkII’s keyboard, giving you access to higher and lower pitches.

When activated, the corresponding octave button will blink at a certain speed to indicate how low or high you have transposed the keyboard. It will blink faster as the keyboard is transposed further away from center. The blinking can be deactivated in the onboard Global Settings [p.21] or using the MIDI Control Center [p.65].

To quickly reset the octave shift and return the KeyLab MkII to the center pitch range position, press the Oct - / Oct + buttons simultaneously.

♫: The Octave and Transpose settings are saved with the User map presets.

2.3.1. Setting the Octave

2.3.2. Activating Transpose

The Transpose function lets you shift the pitch of the keyboard chromatically to make it easier to perform in different keys.

To transpose the KeyLab MkII hold the Trans button and select the root note of the new key. Notes lower than middle C will transpose down, and notes above middle C will transpose up. Press any C key while holding the Trans button to cancel the transposition.

When the Trans button is lit brightly the KeyLab MkII is transposed. When it is not lit the KeyLab MkII is not transposed.

The transposition feature can be toggled on and off. When the Trans button is dimly lit that means the keyboard is not currently transposed, but that there is a transposition amount being held in memory. Pressing the Trans button again will re-transpose the keyboard.

♫: The range of the Transpose function is -11 to +11 notes. Use the Octave buttons to extend this range.
2.3.3. Resetting Transpose

To reset transpose mode, simply hold the Trans button down and select a C note. The light will then turn off.

2.4. Chord button

The Chord button is used to toggle Chord mode on and off for the keyboard. If a chord has been stored on this button, you will be able to play that chord with a single key. Playing different keys will transpose the chord up and down. To learn how to create chords and store them into memory, read the Chord mode chapter [p.57].

To learn about the pads and Chord mode, read the next section.

2.5. Pad mode buttons & Pads

KeyLab MkII features 16 multi-function RGB pads that are velocity- and pressure-sensitive. They will transmit polyphonic aftertouch, which is a highly expressive method of control for your music.

Pads are often used to perform drum and percussion parts, but the KeyLab MkII pads can also be used to trigger chords, send MIDI CC data, and select programs internally or on external MIDI devices. Each pad can have its own settings, which can be edited within the User preset [p.45] or by using the MIDI Control Center [p.65].

♪: Chord-related pad functions are covered in the Chord mode chapter [p.57]. The rest are covered in the User mode chapter [p.45] and the MIDI Control Center chapter [p.65].
2.5.1. Three Pad modes

The three buttons to the left of the pads change what the pads do:

- **Pad mode**: Touch a pad and it can play a note or send a MIDI message of some sort. The response can be defined from the front panel [p.45] or by using the MIDI Control Center [p.65].
- **Chord memory mode**: Each pad stores a chord that can be played from that pad.
- **Chord Transpose mode**: Each pad stores a chord that can be played from the keyboard. The Chord button must be lit to use Chord Transpose mode.

To learn how to work with the chord-related functions of the pads, refer to the Chord mode chapter [p.57].

![Info icon] If you are working in a dark environment you can change the pads’ backlight LEDs to remain always on. This can be done in the onboard Global Settings [p.21] or using the MIDI Control Center [p.65].

2.5.2. Pad MIDI note assignments

The default note assignments of the 16 pads are shown below:

This places the pads in a commonly-used MIDI drum mapping, with the kick drum, a snare, the hi-hats, and the cymbals, etc., all in positions that are comfortable for playing live. They can be reassigned to any note numbers you prefer in User Edit mode [p.47] or by customizing the pads [p.67] in the MIDI Control Center [p.65].
2.6. Analog Lab/DAW/User modes

Three large buttons below the center knob allow you to switch the KeyLab MkII between its three major modes:

- **Analog Lab**: Configures the knobs and faders to control parameters in Analog Lab, as indicated by the blue text beneath each control. The center knob, the buttons around it, and the buttons under the faders are used to filter and select presets.

- **DAW**: Changes most of the KeyLab MkII front panel into a control center for your recording software.

- **User**: Use the center knob to select one of 10 presets, each with its own settings for every control. These presets may be customized from the front panel [p.45] or by using the MIDI Control Center [p.65].

USER presets let you configure your KeyLab MkII controls and parameters (Velocity Curves, Knob Acceleration, MIDI In/Out settings, CV In/Out settings, ...). These parameters will also affect the DAW and Analog Lab modes, letting you use your customisations in these modes.

However when using the Analog Lab or DAW memories, you will notice that a few controls are hard mapped and cannot be overwritten by the USER presets.

- **Analog Lab**
  - Sustain Pedal MIDI CC = 64 (Other Sustain Pedal parameters are shared)
  - Expression Pedal MIDI CC = 11 (Other Expression Pedal parameters are shared)
  - Mod Wheel MIDI CC = 1 (Other Mod Wheel parameters are shared)
  - Encoder 1-9 are hard mapped (But Acceleration is shared)
  - Fader 1-9 are hard mapped
  - Select Button 1-9 are hard mapped

- **DAW**
  - DAW Controls are hard mapped
  - Encoder 1-9 are hard mapped (But Acceleration is shared)
  - Fader 1-9 are hard mapped
  - Select Button 1-9 are hard mapped
2.7. DAW Commands section

When the DAW mode button is pressed the functionality of the front panel changes in many ways. KeyLab MkII has been designed to enhance the creative process, whether you’re writing music or recording a band in your studio.

2.7.1. Track controls / Global controls

Using the industry-standard Mackie HUI data language, KeyLab MkII gives you direct access to the most frequently used commands in your recording software, including:

<table>
<thead>
<tr>
<th>Track Controls [1]</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Solo</td>
<td>Solos the corresponding track(s)</td>
</tr>
<tr>
<td>Mute</td>
<td>Mutes the corresponding track(s)</td>
</tr>
<tr>
<td>Record</td>
<td>Arms the corresponding track(s) for recording</td>
</tr>
<tr>
<td>Read</td>
<td>Enables control automation playback on the corresponding track(s)</td>
</tr>
<tr>
<td>Write</td>
<td>Arms recording of control automation on the corresponding track(s)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Global Controls</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Save</td>
<td>Saves the project</td>
</tr>
<tr>
<td>In</td>
<td>Defines the start point for “punch in” style recording</td>
</tr>
<tr>
<td>Out</td>
<td>Defines the end point for “punch in” style recording</td>
</tr>
<tr>
<td>Metro / Project</td>
<td>Toggles the DAW metronome on and off, or opens project selection window [2]</td>
</tr>
<tr>
<td>Undo</td>
<td>Reverses the last action, such as a bad recording or the deletion of a track.</td>
</tr>
</tbody>
</table>

[1] KeyLab MkII offers two modes for track control - Single or Multi. More information on these modes can be found in the Track Controls [p.35] section. [2] For the Pro Tools preset this becomes a Project button, not a Metronome button.
2.7.2. 8 DAW presets

DAW mode has 8 presets, 6 of which are preconfigured for use with popular DAW software. We have supplied a magnetic overlay with button labels that match the functions of the Track / Global buttons for these 6 DAWs [p.34].

There are also two generic presets for use with other DAWs (Standard MCU and Standard HUI). The Track / Global button labels printed on the KeyLab MkII front panel match their MCU / HUI functionality.

The MMC preset allows to send standard MMC messages using the transport controls, for DAWs and MIDI Devices that do not support MCU/HUI.

To select a preset, hold the DAW mode button for 1 second. Then use the center knob to select the desired DAW configuration.

For additional information about DAW mode functionality, please refer to the DAW mode chapter [p.33].

♫: If your DAW isn't in the preset list [p.34], it is probably compatible with either the MCU or HUI preset. Please refer to the user guide for your DAW to see which of the two protocols is best to use.

2.8. Transport controls

TRANSPORTS

The Transport section puts popular transport controls at your fingertips: Rewind, Fast Forward, Stop, Play / Pause, Record, and Loop.
2.9. Preset Browser & Display

KeyLab MkII features a powerful Preset Browser and clickable center knob to help you quickly find the sound you’re looking for within Analog Lab.

While in **Analog Lab mode** [p.24], the **Category**, **Preset**, and **Left / Right arrow** buttons are used to browse and select presets in Analog Lab.

> To place KeyLab MkII into Analog Lab mode, press the **Analog Lab** button under the center knob. For more information about Analog Lab mode, please refer to the Analog Lab manual or the Analog Lab chapter [p.24] in this manual.

While in **User mode** [p.45], these controls can be used to send MIDI program change messages. Consult this section [p.46] of the manual for more information.

> To place KeyLab MkII into User mode, press the **User** button under the center knob. To learn about User mode, please read the User mode chapter [p.45].
2.10. Control buttons

The Control buttons are used to switch the functions of KeyLab MkII’s encoders, faders, and buttons. Their purposes depend on the selected mode:

- **Analog Lab mode [p.24]**: Select one of three layers of definable controller assignments and Macros within a Multi. Also, the Live button is used to activate Split mode [p.31] and set the split point.
- **DAW mode [p.33]**: Select different groups of tracks
- **User mode [p.45]**: Choose one of three banks of definable controller assignments

Please refer to the appropriate sections of this manual via the links above to learn more about each mode.

2.11. Encoders

The 9 rotary knobs of KeyLab MkII are endless encoders with dual functionality.

In **Analog Lab mode [p.24]** the encoders will affect the corresponding parameters displayed within Analog Lab. The first four encoders have the names of the parameters they control listed in blue text, as does the ninth encoder (Chorus). The functions of encoders 5-8 may be different from one preset to the next.

In **DAW mode [p.33]** the encoders will alter the panning of their corresponding track on the mixer.

Each of the **10 User presets [p.45]** allow the encoders to transmit various types of MIDI control data. Three banks of settings are available for each of the 9 encoders. It is also possible to name each of the encoders, and the display will show that name when the encoder is turned. These choices can be made from the front panel [p.45] or by using the MIDI Control Center [p.65].
2.12. Faders

Like the encoders, KeyLab MkII’s 9 faders have multiple functions that vary depending on the selected mode.

In **Analog Lab mode [p.24]** faders 1-8 control the envelope parameters indicated in the blue text under the faders. Fader 9 is reserved for the master volume of the preset.

In **DAW mode [p.33]** faders 1-8 control the volume of 8 channels within your DAW, and fader 9 controls the master volume. Different sets and banks of tracks may be selected using the three control buttons immediately to the left of the faders.

The faders can also send several types of MIDI data, with three banks of settings available within each of the 10 **User presets [p.45]**. These can be assigned from the front panel [p.45] or by using the **MIDI Control Center [p.65]**. It is also possible to name each of the faders, and the display will show that name when the fader is moved.

2.13. Filter/Select buttons

Each of the 9 buttons beneath the faders serves a different role depending on which mode has been selected.

In **Analog Lab mode [p.24]** the buttons are used to select a certain type of instrument (Piano, Lead, etc.). Once the options have been narrowed in this way it is even faster to find the right preset.

In **DAW mode [p.33]** the buttons can be used to select one of the tracks within your DAW, or to perform functions like solo, mute, record-enable, on the corresponding tracks. Different sets and banks of tracks may be selected using the three buttons immediately to the left of the faders.

> These buttons can function in 2 different ways while in DAW mode, depending on the Track Control setting (Single/Multi) selected in the onboard **Global Settings [p.21]** or in the **Device Settings [p.79]** tab inside MIDI Control Center.
In **User mode [p.45]** the buttons can send MIDI control data, notes, program changes, or recall User presets. There are three banks of settings available within each of the 10 presets [p.45]. These can be assigned from the front panel [p.45] or by using the MIDI Control Center [p.65].

![Information icon]
> Each button can be assigned its own color, but this can only be done using the MIDI Control Center [p.65].

### 2.14. Rear panel connections

![Diagram of rear panel connections]

### 2.14.1. Controls/Pedals/CV In

Each of the five pedal inputs can be configured to send various types of MIDI data. Their labels indicate their default assignments, but any one of the inputs can work with either a foot switch or an expression pedal. The function of each pedal can be edited from the front panel [p.45] or by using the MIDI Control Center [p.65].

The CV In connection allows a control voltage from an external device to be used as a modulation source in User mode. From there its input values can be captured by your DAW. For more information, see the **User mode chapter [p.45]** and the **CV/Gate/Mod connections chapter [p.62]**.

### 2.14.2. Pitch/Gate/Mod Outputs

These four connectors enable the KeyLab MkII to interface with a modular synthesis system. The voltage ranges may be defined in **User Edit mode [p.47]** or by using the MIDI Control Center [p.65].

USB to CV: The KeyLab MkII can convert to CV any MIDI message received from the USB. The MIDI Channel and the MIDI CC to be used for Mod1 and Mod2 may be defined in User Edit mode or by using the MIDI Control Center.
2.15. Additional features

2.15.1. Global settings

The KeyLab MkII has some very useful keyboard shortcuts. We've already covered how to change the MIDI Channel [p.9], and all of the others are described in the User mode chapter [p.50].

But the Global parameters determine the behavior of the KeyLab MkII in all modes and all presets, so it's best to mention them here.

2.15.1.1. Access to Global settings

Here's how to view or edit the Global parameters:

1. Press and hold the User mode button for 1 second. It will begin to flash.
2. Press the key with ‘Global’ printed directly above it. The display will read ‘Global’ in the top row and ‘LowPower’ in the bottom row.
3. Turn the center knob to view the Global parameter you want to edit
4. Click the center knob to select the parameter
5. Turn the center knob to change the value of that parameter.

These settings can also be edited using the MIDI Control Center [p.65], which provides access to other functions such as pedal calibration [p.81].
2.15.1.2. Global settings chart

Here is a quick overview of the settings available in the Global settings page. These settings are covered in more detail in the Device Settings [p.79] section of this manual.

<table>
<thead>
<tr>
<th>Name</th>
<th>Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Power mode</td>
<td>On/Off</td>
<td>Enable/disable power-up &amp; Vegas mode light shows</td>
</tr>
<tr>
<td>Vegas mode</td>
<td>On/Off</td>
<td>Toggle the 'time-out' light show feature</td>
</tr>
<tr>
<td>Octave Blink</td>
<td>On/Off</td>
<td>Enable/disable blinking of octave buttons</td>
</tr>
<tr>
<td>DAW Fader mode</td>
<td>Jump/Pickup</td>
<td>Set Fader response preference</td>
</tr>
<tr>
<td>User Fader mode</td>
<td>Jump/Pickup</td>
<td>Set Fader response preference</td>
</tr>
<tr>
<td>DAW Button</td>
<td>User/DAW</td>
<td>Select function of DAW Control buttons in User mode</td>
</tr>
<tr>
<td>Track Control mode</td>
<td>Single/Multi</td>
<td>Select behavior of Track Control and Select buttons</td>
</tr>
<tr>
<td>Pad Velocity curve</td>
<td>Lin/Log/Exp/</td>
<td>Select pad velocity response preference</td>
</tr>
<tr>
<td></td>
<td>Fix</td>
<td></td>
</tr>
<tr>
<td>Pad LED</td>
<td>On trig/Always</td>
<td>Select pad illumination preference</td>
</tr>
<tr>
<td>Pad Aftertouch curve</td>
<td>Lin/Log/Exp</td>
<td>Select pad aftertouch response preference</td>
</tr>
<tr>
<td>Pad Aftertouch minimum</td>
<td>0-127</td>
<td>Set minimum range for pad aftertouch</td>
</tr>
<tr>
<td>Pad Aftertouch maximum</td>
<td>0-127</td>
<td>Set maximum range for pad aftertouch</td>
</tr>
<tr>
<td>Keyboard Aftertouch curve</td>
<td>Lin/Log/Exp</td>
<td>Select keyboard aftertouch response preference</td>
</tr>
<tr>
<td>Keyboard Aftertouch minimum</td>
<td>0-127</td>
<td>Set minimum range for keyboard aftertouch</td>
</tr>
<tr>
<td>Keyboard Aftertouch maximum</td>
<td>0-127</td>
<td>Set maximum range for keyboard aftertouch</td>
</tr>
<tr>
<td>MIDI In to USB</td>
<td>On/Off</td>
<td>Choose whether to pass incoming MIDI data to USB host</td>
</tr>
<tr>
<td>USB In to MIDI Out</td>
<td>On/Off</td>
<td>Choose whether to pass USB host data to MIDI Output</td>
</tr>
</tbody>
</table>

2.15.2. Sending a Panic Message

It’s possible a note might continue playing if you switch between different instruments while holding down a key. Similarly, sometimes a controller value will remain at an unwanted value. These situations can be fixed easily by sending what is known as a ‘Panic Message’, which resets all controllers and sends a ‘note off’ message to all MIDI channels.

To send a Panic message from the KeyLab MkII, press the Stop button quickly three times.
2.15.3. Factory Reset

Sometimes you may wish to reset your KeyLab MkII back to the factory settings. This process will initialize the unit, putting in its default state.

ℹ️ Performing a factory reset will overwrite all 10 User presets with a default preset. Be sure to back up your settings using the MIDI Control Center [p.65].

To perform a factory reset on your KeyLab MkII, follow these simple steps:

- Turn off the KeyLab MkII using the power switch on the back of the unit.
- Press and hold Oct+ and Oct- buttons.
- Turn the power switch back on.
- The LCD screen will display a factory reset message.
- To confirm that you want to perform the factory reset, press the center knob.
3. ANALOG LAB MODE

KeyLab MkII has been designed to shine in many musical environments, and it is perfectly suited for the included Analog Lab software. From helping you select the perfect sound to allowing complete control over that sound, KeyLab MkII and Analog Lab are a powerful combination.

♫: The focus of this chapter will be the features of KeyLab MkII, with occasional explanations of Analog Lab for your convenience. For in-depth information about Analog Lab, please consult the manual for that software.

3.1. Connecting to Analog Lab

Before you can enjoy the close integration of KeyLab MkII and Analog Lab, there are some initial conditions that must be met:

- Analog Lab needs to be downloaded, installed, and activated as described here [p.3]
- Connect KeyLab MkII to your computer
- Launch the Analog Lab application
- Press the Analog Lab button on the KeyLab MkII (under the center knob) to enter Analog Lab mode
- Play a note on the keyboard. If Analog Lab does not respond, check its preferences and be sure KeyLab MkII is selected in the MIDI Devices window as shown below.
After this, every time you start Analog Lab it should connect to the KeyLab MkII on its own. But since this is the first time you may also need to select it in the MIDI Controller settings.

To access these settings, click the Gear icon on the right of Analog Lab, then click the MIDI tab and select “KeyLab MkII” or “KeyLab MkII 88”. This will load the correct mapping configuration for your keyboard. To see how your keyboard’s controls are mapped to software parameters in Analog Lab, click the Controls button in the bottom right of the window.

If you’ve met the conditions listed above, let’s begin!

When in DAW mode you can switch to Analog Lab mode and do everything described in this chapter, if the instrument assigned to the current track is Analog Lab. The DAW Commands section and the transport section will continue to function as they do in DAW mode. But keep in mind that the Track select buttons will be used to filter sounds in Analog Lab; to select different tracks and track groups, switch back into DAW mode.
3.2. Part / Live selection

There are 3 control buttons located to the left of the encoders, faders, and Filter buttons. (They are bracketed in red in the graphic above.) In **Analog Lab mode** the blue text above the control buttons reveals their purpose:

- **Part 1:** Select the controls for the current single instrument or for Part 1 of the current Multi
- **Part 2:** Select the controls for Part 2 of the current Multi, or **add a second layer** to a single preset
- **Live:** Select the controls for the Macro parameters, Part volume/panning, and Send A / B controls of the current Multi. If the Live button is held and a key is pressed, **Split mode** will be enabled.

> Macros are created within Analog Lab. To learn more about Macros and Multis, please consult the Analog Lab user manual.
3.3. Browsing Presets

With Analog Lab mode selected the center section and the Filter buttons work together to streamline the process of selecting presets.

3.3.1. Filter buttons

There are times during the creative process when you already know the type of sound you want: an acoustic piano, a lead, or a sequence, for example. The Filter buttons might be the place to start in this case. They’re located under the faders, and each of the 9 buttons is labeled in blue with a useful category filter:

<table>
<thead>
<tr>
<th>Filter type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piano</td>
<td>Acoustic pianos: concert grand, upright, etc.</td>
</tr>
<tr>
<td>Elec Piano</td>
<td>Electric pianos: Suitcase, Stage, Wurlitzer, etc.</td>
</tr>
<tr>
<td>Organ</td>
<td>B3, Fartisa, Vox Continental, etc.</td>
</tr>
<tr>
<td>Pad</td>
<td>String synthesizers, ethereal voices, pads of all sorts</td>
</tr>
<tr>
<td>Bass</td>
<td>Classic synthesizer basses, organ pedal instruments, etc.</td>
</tr>
<tr>
<td>Lead</td>
<td>Synthesizer lead sounds ranging from mellow to aggressive</td>
</tr>
<tr>
<td>Seq</td>
<td>Sequences and arpeggiator patterns: monophonic or polyphonic</td>
</tr>
<tr>
<td>Keys</td>
<td>Synths and sounds from other instruments that are good for comping, etc.</td>
</tr>
<tr>
<td>Multi</td>
<td>Splits and layers using sounds from all categories</td>
</tr>
</tbody>
</table>

For example, if you press the Piano button it will engage the piano filter and load a piano sound; press the Pad button and presets matching that description will be made available immediately.

As soon as a filter choice is made, the name of the first matching preset will appear in the display with an asterisk to its left. After this you can use the Left / Right arrow buttons or the center knob to scroll through the filter results. To disengage the filter, press the same Filter button again.

When the Multi button is pressed Analog Lab will select the Multi category, where two instruments can be played at the same time. For full details about Multi mode, please refer to the Analog Lab user guide.
3.3.2. Category and Preset buttons

The **Category** and **Preset** buttons let you use the center knob with Analog Lab to select the instrument, type, or style you are looking for, which will help to narrow down your search. You can view the options in the KeyLab MkII display as well as in Analog Lab.

Once you have scrolled to the characteristic you want, press the center knob to select it. Your choice will also be outlined in blue in Analog Lab. You can remove that characteristic by clicking the center knob again.

When you have selected the desired characteristics, you can then press the **Preset** button and use the center knob to navigate through the presets that match your selection. To choose a preset, click the center knob.

A quicker way to audition the list of filtered presets is to use the **Left / Right arrow** buttons. This will load the next preset immediately so you don't have to press the center knob first.

**3.3.3. Clear all filters**

To clear all of the filter characteristics quickly, scroll fully counter-clockwise to the **Clear: All Sounds** page and then click the center knob. You can also use the 'Clear All' button inside Analog Lab.
3.4. Encoders and Faders

As with each mode in the KeyLab MkII, when you enter Analog Lab mode the controls to the right of the display assume different functions. We covered the Filter buttons in the Browsing Presets section [p.27], now we will describe the new functions of the encoders and faders.

> It is possible that some presets may have different controller assignments than are listed on the front panel.

### 3.4.1. The Encoders

The blue text under the encoders reveals their function for Part 1 and Part 2 in Analog Lab mode:

<table>
<thead>
<tr>
<th>Encoder #</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cutoff</td>
<td>Controls cutoff frequency of the filter(s)</td>
</tr>
<tr>
<td>2</td>
<td>Resonance</td>
<td>Sets the resonance amount for the filter(s), when available</td>
</tr>
<tr>
<td>3</td>
<td>LFO Amt</td>
<td>Determines the depth of the LFO modulation</td>
</tr>
<tr>
<td>4</td>
<td>LFO Rate</td>
<td>Adjusts the speed or sample/hold time of the LFO(s)</td>
</tr>
<tr>
<td>5</td>
<td>Param 1</td>
<td>Assignable; varies per preset</td>
</tr>
<tr>
<td>6</td>
<td>Param 2</td>
<td>Assignable; varies per preset</td>
</tr>
<tr>
<td>7</td>
<td>Param 3</td>
<td>Assignable; varies per preset</td>
</tr>
<tr>
<td>8</td>
<td>Param 4</td>
<td>Assignable; varies per preset</td>
</tr>
<tr>
<td>9</td>
<td>Chorus</td>
<td>Controls the chorus effect level</td>
</tr>
</tbody>
</table>
### 3.4.2. The Faders

The blue text under the encoders reveals their function for Part 1 and Part 2 in Analog Lab mode:

<table>
<thead>
<tr>
<th>Fader #</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Attack</td>
<td>Controls the attack rate of the filter envelope</td>
</tr>
<tr>
<td>2</td>
<td>Decay</td>
<td>Adjusts the decay rate of the filter envelope</td>
</tr>
<tr>
<td>3</td>
<td>Sustain</td>
<td>Sets the sustain level of the filter envelope</td>
</tr>
<tr>
<td>4</td>
<td>Release</td>
<td>Determines the fade-out time of the filter envelope after a key is released</td>
</tr>
<tr>
<td>5</td>
<td>Attack</td>
<td>Controls the attack rate of the amplitude envelope</td>
</tr>
<tr>
<td>6</td>
<td>Decay</td>
<td>Adjusts the decay rate of the amplitude envelope</td>
</tr>
<tr>
<td>7</td>
<td>Sustain</td>
<td>Sets the sustain level of the amplitude envelope</td>
</tr>
<tr>
<td>8</td>
<td>Release</td>
<td>Determines the fade-out time of the amplitude envelope after a key is released</td>
</tr>
<tr>
<td>9</td>
<td>Master</td>
<td>Controls the output volume of Analog Lab (Parts 1 and 2)</td>
</tr>
</tbody>
</table>

### 3.4.3. The Live button

The Live button selects a third bank of assignments for the encoders and faders in Analog Lab mode. When this button is pressed the Live tab will be selected in Analog Lab. It allows you to assign Macros to encoders 1-8, each of which can control up to 4 parameters drawn from Part 1, Part 2, or both. The blue text under the faders does not identify their functions when the Live button is pressed.

The Live tab is also where mixer-type assignments for the faders can be made. Available parameters include Panning, Level, Effects Sends and Returns, and other parameters for each Part.

ℹ️ To learn more about the Live tab, please consult the Analog Lab user manual.
3.5. Build a Multi

In Multi mode you can have two presets active on the keyboard at the same time. They can be either layered or split, with one preset on one side of the keyboard and a second preset on the other side.

Here’s how to build a Multi from the ground up.

3.5.1. Start with a single preset

First we'll need to call up a single preset inside Analog Lab. Select any one of the presets, as long as it isn’t a Multi. The difference is that a single Analog Lab preset will show a picture of only one instrument on the right side of the application window, while a Multi will display two instruments (or two pictures of the same instrument).

After you have done this only Part 1 will be active on the KeyLab MkII. When you play a note on the keyboard you will hear only one Analog Lab preset. To verify this visually, the Part 1 button should be lit on the front panel.

Now scroll through the preset list using the center knob until you find a sound you’d like to build into a Multi. You can use the Filter buttons [p.27] to narrow your search, of course; just don’t press the Multi button for now (that’s the furthest one on the right side).

3.5.2. Add Part 2

If you’re familiar with the various ways to select presets [p.27] and you’d like to start combining them into a Multi, press the Part 2 button. Analog Lab will switch to Multi mode, place the Multi in Swap mode, and ‘open’ the Part 2 slot in the Analog Lab window.

Now you can select a preset for Part 2 from the KeyLab MkII front panel using the same filtering techniques you used to select the first preset: Filter buttons, category selection, etc.

**: For specific details about Multi Mode or Swap mode, please refer to the Analog Lab manual.

3.5.3. Setting a split point

At first both presets will be layered, one on top of the other. If you’d like to have them on different sides of the keyboard you’ll need make them into a split Multi. This can be done from the KeyLab MkII or using Analog Lab.

To set the split point using the keyboard, hold the Live button and press a key. The display will show the name of the key you have pressed to confirm that Split mode has been enabled. Part 1 will go to the left side of the split point and Part 2 will be placed on the right side of the split point. Then release the Live button and the screen will return to the previous page.

You can use this shortcut in two ways:

- To move the split point of a Multi that is already in Split mode, or
- To turn a layered Multi into a split Multi.
3.5.4. Removing the split point

To remove a split point, hold the Live button and then press the split point key. The display will show the word “Off” after pressing the split point key to confirm that Split mode has been disabled. If you accidentally press the wrong key, just press it again. Then release the Live button and the screen will return to the previous page.

Adding/removing a split point can also be a useful feature when building a layered Multi: Split the keyboard to focus on what each Part is contributing to a layer, then remove the split point to recombine the Parts and double-check the blend, the playability, etc.
4. DAW MODE

Pressing the DAW mode button in the center section puts the KeyLab MkII into DAW mode. 8 DAW mode presets are available, with 6 intended for use with particular DAW applications. There are also Standard MCU and Standard HUI presets. Between these 8 presets the KeyLab MkII should be compatible with almost any DAW.

4.1. An overview of DAW mode

All three of the main modes exist when KeyLab MkII is in DAW mode (Analog Lab, DAW, and User), and you may switch between them freely. Some DAW mode functions will not be available if you switch modes, though.

For example, the Track Select buttons will change their function to match the chosen mode on the KeyLab MkII: if you enter Analog Lab mode and open the Analog Lab interface on a track, the Track Select buttons will now serve as the Filter buttons for Analog Lab.

However, any DAW-specific KeyLab MkII controls not being used by Analog Lab mode will still fulfill their DAW mode functions. For example, the DAW Commands buttons will continue to perform the Track and Global functions of the selected DAW preset.

If you switch to User mode, the DAW Commands buttons will perform the functions that were assigned to them in the current User Preset. These may still be DAW commands, or they may be different MIDI assignments, depending on how you’ve configured the buttons in Global Settings or in the Device Settings page inside MIDI Control Center.

4.2. DAW preset selection

Hold the DAW mode button for 1 second to enter the DAW Preset selection page. Next, turn the center knob and scroll through the list to find the name of your DAW. Click the center knob to select that preset, and then the features of the KeyLab MkII will be reconfigured to match the most important functions of your DAW.

If your DAW doesn’t have a preset listed below, its compatibility with KeyLab MkII depends on how the DAW handles the MCU and HUI protocols. For more information consult the KeyLab MkII page on the Arturia website or the documentation of the DAW you are using.
### 4.2.1. List of DAW presets

<table>
<thead>
<tr>
<th>Preset</th>
<th>DAW</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Standard MCU</td>
</tr>
<tr>
<td>2</td>
<td>Standard HUI</td>
</tr>
<tr>
<td>3</td>
<td>Ableton Live</td>
</tr>
<tr>
<td>4</td>
<td>Logic Pro X</td>
</tr>
<tr>
<td>5</td>
<td>Pro Tools</td>
</tr>
<tr>
<td>6</td>
<td>Cubase</td>
</tr>
<tr>
<td>7</td>
<td>Studio One</td>
</tr>
<tr>
<td>8</td>
<td>Reaper</td>
</tr>
<tr>
<td>9</td>
<td>MMC</td>
</tr>
</tbody>
</table>

### 4.3. Track / Global controls

Using the industry standard Mackie HUI or MCU protocols, KeyLab MkII gives you direct access to the most frequently used commands in your recording software. The difference between the Track Controls and the Global Controls is this:

- **Track control** buttons control track-specific functions; for example, solo/mute/record. See the next section for information on the 2 different modes of operation: Single or Multi track.
- **Global control** buttons are global project commands that affect the entire song or project.

The following two sections focus on the assignments that correspond to the printing on the front panel, but a list of the assignments for each DAW preset are found [here](p.40).
4.3.1. Track Controls

Track Controls can function in two different modes - Single or Multi track. The mode can be switched in KeyLab MkII’s onboard Global Settings [p.21] or in the Device Settings [p.79] tab inside MIDI Control Center.

In both modes these buttons work in conjunction with the 8 Select buttons underneath the faders, although in slightly different ways from each other. Here’s how:

In **Single** track mode the **Select** buttons select which track the **Track Control** buttons will affect:

- **Solo:** soloes the selected track
- **Mute:** silences the selected track
- **Record:** arms the selected track for recording
- **Read:** allows automation data embedded in the selected track to become active
- **Write:** allows automation data to be written to the selected track

In **Multi** track mode the **Track Control** buttons now specify the function of the **Select** buttons. If you press the Solo button, then the Select buttons will now work as solo commands for the corresponding tracks in your project. Or if you press the Mute button, then the Select buttons will work as mute commands. This way you can quickly control multiple tracks in your project without having to select each one by one.

- **Solo:** changes function of Select buttons to solo the corresponding track(s)
- **Mute:** changes function of Select buttons to silence the corresponding track(s)
- **Record:** changes function of Select buttons to arm the corresponding track(s) for recording
- **Read:** changes function of Select buttons to allow automation data embedded in the corresponding track(s) to become active
- **Write:** changes function of Select buttons to allow automation data to be written to the corresponding track(s)

While in Multi track mode, the LEDs on the Select buttons will display the corresponding track states, depending on the function selected with the Track Control buttons - blue for soloed tracks, yellow for muted tracks, red for record-enabled tracks.

---

*You can use the Channel and Bank Selectors [p.38] to move between channels (tracks) in your project.*
4.3.2. Global Controls

GLOBAL CONTROLS

- **Save**: Saves your project.
- **In**: Defines the start point for “punch in/out” recording
- **Out**: Defines the end point for “punch in/out” recording
- **Metro**: Toggles the DAW metronome on and off [1]
- **Undo**: Reverses your last action, such as deleting a track, or capturing a MIDI performance.

[1] While using the Pro Tools DAW preset, this becomes a Project button.

> The buttons in the DAW Commands section send predetermined control messages to your software, and cannot be repurposed within DAW mode. However, they can be assigned to send various MIDI commands in User Edit mode [p.45].

For a complete list of the Track / Global Control button assignments for each of the DAW presets, [click here](p.40).
4.4. The transport controls

The transport controls put popular transport controls at your fingertips:

- **Rewind / Fast-forward**: The exact response of these buttons depends on the DAW you are using. Some might accelerate the playback cursor forward or backward; others might jump by 1 bar, or jump to the next/previous marker, etc. But as a general concept, the *Rewind / Fast-forward* buttons are a quick way to move the playback cursor back and forth so you can find specific points in your track.

- **Stop**: Stops playback. In some recording software, this will also return the playback cursor to the start of the track.

- **Play / Pause**: Starts and pauses your track at the current position of the playback cursor in your DAW.

- **Record**: Arms the record function in your DAW. Hitting the Record button while the track is stopped will begin playback while recording. If the track is already playing, hitting Record will begin recording from the current playback cursor position.

- **Loop**: Toggles the Loop function in your DAW on and off. The loop region is set within your software.

> The Transport buttons always send commands using the MCU / HUI protocols and cannot be reassigned in any mode.

4.5. The Center Knob: Use as Jog Wheel

When *DAW mode* is selected, the center knob can be used as a “jog wheel” to move the playback cursor within your recording software backward and forward, speeding up your workflow.
4.6. **Channel/Bank selection**

The control buttons are located to the left of the encoders, faders, and buttons. The black text under these 3 buttons reveals their function in DAW mode:

- **Next / Prev:** Shifts the range of the selected channels in your DAW, which allows you to focus the encoders, faders, and buttons on a particular set of channels. The amount of shift is determined by the Bank button:
  - Bank button ON (lit): Next / Previous buttons shift tracks by 8 channels
  - Bank button OFF (dark): Next / Previous buttons shift tracks by 1 channel
- **Bank:** Toggles the function of the Next/Prev buttons.

4.7. **Track selection**

These buttons can function in 2 different ways, depending on the Track mode (Single/Multi) selected in the onboard Global Settings [p.21] or in the Device Settings [p.79] tab inside MIDI Control Center.

In **Single** track mode the Select buttons will select a track in the project:

- Track button 1 selects the first track in the selected bank as the target of the Track Control buttons
- Track button 2 selects the second track in the selected bank as the target of the Track Control buttons
- Track button 3 selects the third track in the selected bank as the target of the Track Control buttons

...and so on. After the track has been selected, the Track Control buttons determine and display the status of the selected track: Solo, Mute, Record enabled/disabled, Automation Read/Write, etc.

In **Multi** track mode the Select buttons can be used to apply the current Track Control function to the corresponding tracks. This makes it easy to quickly change the state of several tracks at once, without having to select them one by one.

For example, to solo multiple tracks first press the **Solo** Track Control button. Then press a few **Track Select** buttons to solo the corresponding tracks.
While in Multi track mode, the LEDs on the Select buttons will display the corresponding track states, depending on the function selected with the Track Control buttons - blue for soloed tracks, yellow for muted tracks, red for record-enabled tracks.

In DAW mode, Button 9 only has a function with Ableton Live: It allows you to toggle the Faders function. The default setting will control track volume, and the other setting will control the track ‘SEND A’ knob.

### 4.8. Encoders, Faders

In DAW mode the encoders and faders provide essential mixing features for the group of eight tracks that is currently selected.

#### 4.8.1. Encoders in DAW mode

The black text under the encoders reveals their function in DAW mode:

- Encoder 1 controls the stereo field panning position for the first track in the selected bank
- Encoder 2 controls the stereo field panning position for the second track in the selected bank
- Encoder 3 controls the stereo field panning position for the third track in the selected bank

...and so on.

 Encoder 9 does not have a function in DAW mode.
4.8.2. Faders in DAW mode

The black text under the faders reveals their function in DAW mode:

- Fader 1 controls the level of the first track in the selected bank
- Fader 2 controls the level of the second track in the selected bank
- Fader 3 controls the level of the third track in the selected bank

...and so on through fader 8, which controls the level of the eighth track in the selected bank.

Fader 9 is different, though: it controls the Master Volume of the entire song or project.

>: There are two response behaviors available for the faders in DAW mode: Jump or Pickup [p.80].
The choice can be made from the front panel of the KeyLab MkII [p.21] or using the MCC [p.65].

4.9. DAW Preset Command chart

4.9.1. Standard MCU

<table>
<thead>
<tr>
<th>Section</th>
<th>Button</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Controls</td>
<td>Solo / Mute</td>
<td>Allows the current track to be featured or muted</td>
</tr>
<tr>
<td></td>
<td>Record</td>
<td>Arms the current track for recording</td>
</tr>
<tr>
<td></td>
<td>Read</td>
<td>Plays back all automation that exists on the track</td>
</tr>
<tr>
<td></td>
<td>Write</td>
<td>Enables recording of control automation data for the current track</td>
</tr>
<tr>
<td>Global Controls</td>
<td>Save</td>
<td>Saves the project</td>
</tr>
<tr>
<td></td>
<td>In / Out</td>
<td>Define the start / end limits for &quot;punch in&quot; style recording</td>
</tr>
<tr>
<td></td>
<td>Metro</td>
<td>Toggles the DAW metronome on and off</td>
</tr>
<tr>
<td></td>
<td>Undo</td>
<td>Reverses the last action, such as a bad recording or the deletion of a track.</td>
</tr>
</tbody>
</table>
## 4.9.2. Standard HUI

<table>
<thead>
<tr>
<th>Section</th>
<th>Button</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Controls [1]</td>
<td>Solo / Mute</td>
<td>Allows the current track to be featured or muted</td>
</tr>
<tr>
<td></td>
<td>Record</td>
<td>Arms the current track for recording</td>
</tr>
<tr>
<td></td>
<td>Read</td>
<td>Plays back all automation that exists on the track</td>
</tr>
<tr>
<td></td>
<td>Write</td>
<td>Enables recording of control automation data for the current track</td>
</tr>
<tr>
<td>Global Controls</td>
<td>Save</td>
<td>Saves the project</td>
</tr>
<tr>
<td></td>
<td>In / Out</td>
<td>Define the start / end limits for “punch in” style recording</td>
</tr>
<tr>
<td></td>
<td>Metro</td>
<td>Toggles the DAW metronome on and off</td>
</tr>
<tr>
<td></td>
<td>Undo</td>
<td>Reverses the last action, such as a bad recording or the deletion of a track.</td>
</tr>
</tbody>
</table>

## 4.9.3. Ableton Live

<table>
<thead>
<tr>
<th>Section</th>
<th>Button</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Controls [1]</td>
<td>Solo / Mute</td>
<td>Allows the current track to be featured or muted</td>
</tr>
<tr>
<td></td>
<td>Record</td>
<td>Toggles the ‘record ready’ status of the current track</td>
</tr>
<tr>
<td>Automation</td>
<td>Arm</td>
<td>Enables recording of control automation data for the current track</td>
</tr>
<tr>
<td></td>
<td>Re-Enable</td>
<td>Re-enables automation for parameters that have been overridden</td>
</tr>
<tr>
<td>Global Controls</td>
<td>View</td>
<td>Switch between Session view and Arrangement view</td>
</tr>
<tr>
<td>Punch In / Out</td>
<td></td>
<td>Define the start / end points for “punch in” style recording</td>
</tr>
<tr>
<td></td>
<td>Metro</td>
<td>Toggles the metronome on and off</td>
</tr>
<tr>
<td></td>
<td>Undo</td>
<td>Reverses the last action, such as a bad recording or the deletion of a track.</td>
</tr>
</tbody>
</table>
### 4.9.4. Logic Pro X

<table>
<thead>
<tr>
<th>Section</th>
<th>Button</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Controls</td>
<td>Solo / Mute</td>
<td>Allows the current track to be featured or muted</td>
</tr>
<tr>
<td></td>
<td>Record</td>
<td>Arms the current track for recording</td>
</tr>
<tr>
<td></td>
<td>Read</td>
<td>Plays back all automation that exists on the track</td>
</tr>
<tr>
<td></td>
<td>Write</td>
<td>Enables recording of control automation data for the current track</td>
</tr>
<tr>
<td>Global Controls</td>
<td>Save</td>
<td>Saves the project</td>
</tr>
<tr>
<td></td>
<td>Replace</td>
<td>Toggles track between ‘Replace’ and ‘Overdub’ recording modes</td>
</tr>
<tr>
<td></td>
<td>Auto-Punch</td>
<td>Enables punch in/out recording within the defined ranges</td>
</tr>
<tr>
<td></td>
<td>Metro</td>
<td>Toggles the DAW metronome on and off</td>
</tr>
<tr>
<td></td>
<td>Undo</td>
<td>Reverses the last action, such as a bad recording or the deletion of a track</td>
</tr>
</tbody>
</table>

### 4.9.5. Pro Tools

<table>
<thead>
<tr>
<th>Section</th>
<th>Button</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Controls</td>
<td>Solo / Mute</td>
<td>Allows the current track to be featured or muted</td>
</tr>
<tr>
<td></td>
<td>Record</td>
<td>Arms the current track for recording</td>
</tr>
<tr>
<td></td>
<td>Read</td>
<td>Plays back all automation that exists on the track</td>
</tr>
<tr>
<td></td>
<td>Write</td>
<td>Enables recording of control automation data for the current track</td>
</tr>
<tr>
<td>Global Controls</td>
<td>Save</td>
<td>Saves the project</td>
</tr>
<tr>
<td></td>
<td>Punch</td>
<td>Enables “punch in” style recording within the defined ranges</td>
</tr>
<tr>
<td></td>
<td>Mix</td>
<td>Invokes the Mix window</td>
</tr>
<tr>
<td></td>
<td>Proj</td>
<td>Opens the Project selection menu</td>
</tr>
<tr>
<td></td>
<td>Undo</td>
<td>Reverses the last action, such as a bad recording or the deletion of a track</td>
</tr>
</tbody>
</table>
## 4.9.6. Cubase

<table>
<thead>
<tr>
<th>Section</th>
<th>Button</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Controls</td>
<td>Solo / Mute</td>
<td>Allows the current track to be featured or muted</td>
</tr>
<tr>
<td></td>
<td>Record</td>
<td>Arms the current track for recording</td>
</tr>
<tr>
<td></td>
<td>Read</td>
<td>Plays back all automation that exists on the track</td>
</tr>
<tr>
<td></td>
<td>Write</td>
<td>Enables recording of control automation data for the current track</td>
</tr>
<tr>
<td>Global Controls</td>
<td>Save</td>
<td>Saves the project</td>
</tr>
<tr>
<td></td>
<td>Punch In / Out</td>
<td>Define the start / end points for “punch in” style recording</td>
</tr>
<tr>
<td></td>
<td>Metro</td>
<td>Toggles the DAW metronome on and off</td>
</tr>
<tr>
<td></td>
<td>Undo</td>
<td>Reverses the last action, such as a bad recording or the deletion of a track.</td>
</tr>
</tbody>
</table>

## 4.9.7. Studio One

<table>
<thead>
<tr>
<th>Section</th>
<th>Button</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Controls</td>
<td>Solo / Mute</td>
<td>Allows the current track to be featured or muted</td>
</tr>
<tr>
<td></td>
<td>Record</td>
<td>Arms the current track for recording</td>
</tr>
<tr>
<td></td>
<td>Read</td>
<td>Plays back all automation that exists on the track</td>
</tr>
<tr>
<td></td>
<td>Write</td>
<td>Enables recording of control automation data for the current track</td>
</tr>
<tr>
<td>Global Controls</td>
<td>Save</td>
<td>Saves the project</td>
</tr>
<tr>
<td></td>
<td>Auto-Punch</td>
<td>Enables “punch in” style recording within the defined ranges</td>
</tr>
<tr>
<td></td>
<td>Mixer</td>
<td>Invokes the Mixer window</td>
</tr>
<tr>
<td></td>
<td>Metro</td>
<td>Toggles the DAW metronome on and off</td>
</tr>
<tr>
<td></td>
<td>Undo</td>
<td>Reverses the last action, such as a bad recording or the deletion of a track.</td>
</tr>
</tbody>
</table>
### 4.9.8. Reaper

<table>
<thead>
<tr>
<th>Section</th>
<th>Button</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Controls</td>
<td>Solo / Mute</td>
<td>Allows the current track to be featured or muted</td>
</tr>
<tr>
<td></td>
<td>Record</td>
<td>Arms the current track for recording</td>
</tr>
<tr>
<td></td>
<td>Read</td>
<td>Plays back all automation that exists on the track</td>
</tr>
<tr>
<td></td>
<td>Write</td>
<td>Enables recording of control automation data for the current track</td>
</tr>
<tr>
<td>Global Controls</td>
<td>Save</td>
<td>Saves the project</td>
</tr>
<tr>
<td></td>
<td>Zoom Out / In</td>
<td>Changes the focus range of the track window</td>
</tr>
<tr>
<td></td>
<td>Metro</td>
<td>Toggles the DAW metronome on and off</td>
</tr>
<tr>
<td></td>
<td>Undo</td>
<td>Reverses the last action, such as a bad recording or the deletion of a track.</td>
</tr>
</tbody>
</table>

[1] Track Controls can operate in Single, or Multi track mode. More information on this can be found in the Track Controls [p.35] section of this manual.
5. USER MODE

5.1. General concepts

Press the User mode button to put KeyLab MkII into User mode. 10 User presets are available, each with its own set of MIDI controller assignments for nearly everything on the front and rear panels. The presets can be named for quick identification, as can all three banks of encoders and faders.

When a control is activated from the top level of User mode the display will show which control is being used, the type of MIDI data it is sending, its assigned MIDI channel, and the value of the data being sent.

All of these parameters can be edited from the front panel in User Edit mode [p.47] or by using the MIDI Control Center [p.65]. There are also keyboard shortcuts [p.50] available to help you quickly find the parameters you want to edit.

5.2. User preset selection

Once the KeyLab MkII is in User mode, you can turn the center knob to scroll through the 10 Presets. When you find the one you want, click the center knob to select it. The KeyLab MkII will be configured immediately with the settings that were stored with that preset.

♫: You may also assign any of the Select buttons below the faders to recall a specific User preset. This is done in User Edit mode [p.47].

5.3. The Display in Play mode

The top level of User mode is known as Play mode. In this mode the display provides instant feedback about what is happening, such as octave shift, which chord is being played, and which control has been activated.

When a control is activated there are two main types of data that will be displayed:

```
| Exp | Val:127 |
| CH:User | CC: 11 |
```

Play mode: Expression pedal activated

Controls such as the Expression pedal and Mod Wheel show their names and their current value in the top row and their MIDI assignments in the bottom row.
In the case of the faders, encoders, and the Select buttons, the display contains an additional field.

![Image of display with encoders, faders, and Select buttons]

User Edit mode: Encoder 1, Bank 1 selected

For these controls the top row of the display shows which control is being used, which of the three control banks is currently selected, and the value of the data being sent, and then is shows the MIDI channel assignment and the data type being sent.

### 5.4. Controller bank selection

The control buttons on the left side of this graphic are used to select which of the three banks of encoders, faders, and buttons are being accessed from the front panel. The appropriate button will be lit to indicate which bank is active.

![Diagram of controller bank selection]

### 5.5. Program Change messages

While in User mode, **Category**, **Preset**, **Center Knob**, and **Left/Right Arrows** can be used to send program change messages to hardware or software instruments.

When you press the **Category** or **Preset** button, you will see “Bank Nbr” on the upper line and “Prog Nbr” on the lower line of the display.

Pressing the **Category** button selects the Bank number field, while pressing the **Preset** button selects the Program number field. Use the **Center Knob** to scroll through different banks and programs. When ready to send the program change message, press down on the knob.

Alternatively, you can use the **Left/Right Arrows** to choose a bank or program. The only difference here is that the program change is sent immediately as you press the arrows; when using the Center Knob the program change is only sent when you press down on the knob.
5.6. User Edit mode

Hold the User mode button for 1 second to enter User Edit mode. The display will then ask you to move the item you want to edit, such as

- a fader, an encoder, or one of the Select buttons
- one of the DAW Commands / User buttons
- a pad
- a pedal
- one of the wheels
- a key on the keyboard
- a voltage received at the CV In connector

Once you have activated the item to be edited, turn the center knob and the lower line of the display will show you which parameters are available for that control.

When you see the parameter you want to edit, click the center knob to enter the value field and then turn the knob to change the value for that parameter. Click the knob again to jump back to the parameter selection field.

5.6.1. Select a control for editing

There are two main ways to select another control for editing:

- Move that control, or
- Use the Left / Right arrow buttons to select controls that are nearby.

5.6.1.1. Selecting the CV controls

In some cases you need to use a combination of the control selection procedures described above. For example, here’s how to select the following items:

- **CV Mod Input**: Press Select button 9, then press the right arrow once
- **CV Pitch/Gate/Mod Outputs**: Activate the Aux 3 pedal, then press the right arrow once.

However you do it, once the new control has been selected simply use the center knob to select one of its parameters. Then click the knob to edit the value for that parameter.

> The keys in the upper octave of the keyboard can be used in User Edit mode as shortcuts [p.50] to different parameter groups and other functions.

All of the User Edit mode parameters are also available in the MIDI Control Center [p.65].

> Remember to save your edits [p.56] frequently.
5.6.2. The Display in User Edit mode

There may be more parameter fields in the display depending on the control you have selected for editing. In the two examples that follow, each of the red boxes in the graphic indicates a field where a value can be changed. The control itself determines what is shown in the top row, and the center knob is used to change the items in the bottom row.

The name of the control displayed in the top row will change when you:

- move a control to select it, or
- use the Left / Right arrows to select a nearby control.

5.6.2.1. User Edit: Sustain Pedal

Since there is only one Sustain Pedal (or Mod Wheel, or Expression Pedal, etc.), the top row of the display shows only the name of the control.

The bottom row of the display shows the parameter that is currently selected for editing, such as the Mode, MIDI Channel, or Option, etc. At this point you can

- turn the center knob to select a different parameter to edit for this control (box 2)
- click the center knob to switch to the value field (box 3)
- turn the center knob to change the selection
- click the center knob to return to the parameter field and select a new parameter, etc.

5.6.2.2. User Edit: Faders

In the case of the Faders (or Encoders, or Select buttons) there are 9 in each bank (top row, box 1), and there are three banks of them (top row, box 2), for a total of 27 assignable faders.

The items in the top row are changed by

- moving one of the controls to select it (box 1)
- pressing one of the Control buttons (Part 1, Part 2, Live) to select the bank (box 2).

The bottom row of the display shows the parameter that is currently selected for editing, such as the Mode, MIDI Channel, or Option, etc. At this point you can

- turn the center knob to select a different parameter to edit for this control (box 3)
- click the center knob to switch to the value field (box 4)
• turn the center knob to change the selection
• click the center knob to return to the parameter field and select a new parameter, etc.

|i| Control banks 1-3 are selected with the Control buttons (Part 1, Part 2, Live), not the center knob.

5.6.3. The Keyboard

There are several ways to configure the KeyLab MkII keyboard. It will always send MIDI note data, of course, but there are lots of additional options. You can specify whether the keyboard will

• Operate in Split mode or not, and define the split point
• Transmit data for Part 1 or Part 2 (when split) on the User channel or another MIDI channel
• Choose one of three velocity curves for the keyboard
• Enable channel pressure (aftertouch) for Part 1, Part 2, or both
• Specify whether Octave Shift / Transpose will affect Part 1, Part 2, or both
• Select whether Chord Mode is active for Part 1, Part 2, or both

5.6.3.1. User mode: Part 1 vs. Part 2

Part 1 transmits on the MIDI channel for the keyboard when split mode is not active. When split mode is active the keyboard is split into two virtual keyboards, Part 1 and Part 2, after which the Parts may be assigned to different MIDI channels. In other words, Part 2 is only available when Split mode is active.

|i| When in User Edit mode, press any key below the top octave to select the Keyboard itself as the control to edit. The keys in the top octave are used as parameter shortcuts (see below).
5.6.3.2. Keyboard split: User mode

To set the split point using the keyboard, first enter User Edit mode [p.47] by pressing and holding the User button until it blinks. After that, here’s the process:

- Press any key lower than the top octave of the keyboard
- Turn the center knob to select the SplitMode parameter page
- Click the knob to jump to the value field
- Turn the knob to change the value to On
- Click the knob again to return to the parameter selection field
- Turn the center knob to select the SplitPoint parameter page
- Click the knob to jump to the value field
- Turn the knob to change the split point value
- Click the knob to return to the parameter selection field, or move another control to edit something else
- Remember to store the User preset to preserve the split point and any other changes

In User mode, Part 1 is on the right side of the split point and Part 2 is on the left side of the split point. This is the opposite of the Split mode part assignments [p.31] in Analog Lab mode.

5.6.3.3. Keyboard shortcut chart

Here’s a list of the 49 and 61 keyboard shortcuts:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Name</th>
<th>Button/key combination</th>
<th>Function [2]</th>
</tr>
</thead>
<tbody>
<tr>
<td>All [1]</td>
<td>MIDI Ch</td>
<td>MIDI Ch + one of the 16 lowest keys</td>
<td>Define the User MIDI channel</td>
</tr>
<tr>
<td>User Edit</td>
<td>Global</td>
<td>D key in upper octave</td>
<td>Settings for keyboard/pad/fader response, etc.</td>
</tr>
<tr>
<td></td>
<td>[p.21]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Store</td>
<td>E key in upper octave [2]</td>
<td>Enter Store page to save User preset</td>
</tr>
<tr>
<td></td>
<td>Velo Curve</td>
<td>F key in upper octave [2]</td>
<td>Set response curve for the keyboard</td>
</tr>
<tr>
<td></td>
<td>Name</td>
<td>F# key in upper octave [2]</td>
<td>Enter names for encoders, faders</td>
</tr>
<tr>
<td></td>
<td>Mode</td>
<td>G key in upper octave [2]</td>
<td>Select control function or disable it (Off)</td>
</tr>
<tr>
<td></td>
<td>Option</td>
<td>G# key in upper octave [2]</td>
<td>Select control response (gate/toggle, etc.)</td>
</tr>
<tr>
<td></td>
<td>MIDI Ch</td>
<td>Highest A key [2]</td>
<td>Set MIDI channel for current control</td>
</tr>
<tr>
<td></td>
<td>CC</td>
<td>Bb key in upper octave [2]</td>
<td>Choose MIDI CC # or note number</td>
</tr>
<tr>
<td></td>
<td>Min LSB</td>
<td>B key in upper octave [2]</td>
<td>Set minimum range for current control</td>
</tr>
<tr>
<td></td>
<td>Max MSB</td>
<td>Highest C key [2]</td>
<td>Set maximum range for current control</td>
</tr>
</tbody>
</table>

[1] Analog Lab, DAW, User mode [2] Some shortcuts are not available for certain controls due to feature differences. [3] To access these parameters, first hold the User mode button for 1 second to enter User Edit mode.
Here's a list of the 88 keyboard shortcuts:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Name</th>
<th>Button/key combination</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>All [1]</td>
<td>MIDI Ch</td>
<td>MIDI Ch + one of the 16 lowest keys</td>
<td>Define the User MIDI channel</td>
</tr>
<tr>
<td>Store</td>
<td>C4 key in upper octave [2]</td>
<td>Enter Store page to save User preset</td>
<td></td>
</tr>
<tr>
<td>Velo Curve</td>
<td>C#4 key in upper octave [2]</td>
<td>Set response curve for the keyboard</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>D4 key in upper octave [2]</td>
<td>Enter names for encoders, faders</td>
<td></td>
</tr>
<tr>
<td>Mode</td>
<td>D#4 key in upper octave [2]</td>
<td>Select control function or disable it (Off)</td>
<td></td>
</tr>
<tr>
<td>Option</td>
<td>E4 key in upper octave [2]</td>
<td>Select control response (gate/toggle, etc.)</td>
<td></td>
</tr>
<tr>
<td>MIDI Ch</td>
<td>F4 key [2]</td>
<td>Set MIDI channel for current control</td>
<td></td>
</tr>
<tr>
<td>CC</td>
<td>F#4 key in upper octave [2]</td>
<td>Choose MIDI CC # or note number</td>
<td></td>
</tr>
<tr>
<td>Min LSB</td>
<td>G4 key in upper octave [2]</td>
<td>Set minimum range for current control</td>
<td></td>
</tr>
<tr>
<td>Max MSB</td>
<td>G#4 key [2]</td>
<td>Set maximum range for current control</td>
<td></td>
</tr>
</tbody>
</table>

[1] Analog Lab, DAW, User mode [2] Some shortcuts are not available for certain controls due to feature differences. [3] To access these parameters, first hold the User mode button for 1 second to enter User Edit mode.

### 5.6.4. The Wheels

The two wheels on the left side of the keyboard serve very different purposes.

#### 5.6.4.1. Pitch wheel

The Pitch wheel sends MIDI Pitch Bend messages. It can’t be reassigned to transmit another type of data, but you can choose whether it will affect Part 1, Part 2, or both.

#### 5.6.4.2. Modulation wheel

The Modulation wheel normally sends MIDI CC# 1, but it can be reassigned to a different CC number using the MIDI Control Center [p.65]. Whatever it is configured to transmit, its data can be sent from Part 1, Part 2, or both.
5.6.5. The Pads

If one of the two Chord Memory buttons next to the pads are selected, they will only send the MIDI note data that has been stored with the chord for that pad.

Each of the 16 pads can be assigned to send one of the following types of data on any MIDI channel or on the User channel:

- The MIDI note number of your choice (with velocity and polyphonic aftertouch)
- Switch between two particular values of any MIDI CC number (toggle or gate operation)
- Send a MIDI Program change / Bank Select message

The pads can also be used to call up a different User preset than the one currently selected. More than one pad can be set to do this, which gives you the option to go in different directions during a live performance, for example.

The MIDI Control Center[p.65] can be used to specify a particular color for each pad. If you choose the color blue to represent MIDI notes and the color green to represent Program Changes, for example, then you’ll know at a glance which pad does what, even on a darkened stage.

5.6.6. DAW Command / User buttons

In User Mode the DAW Command buttons can function in two different ways:

- DAW: dedicated DAW commands (see DAW Preset Command chart [p.65] for details about your specific DAW)
- User: configurable MIDI switches that can be assigned to software parameters

The mode can be switched in KeyLab MkII’s onboard Global Settings [p.21] or in the Device Settings [p.79] tab inside MIDI Control Center.

While operating as DAW commands (DAW mode), the functions of these buttons cannot be reassigned.

While operating as generic MIDI switches (User mode), the available functions that can be assigned are:

- Two particular values of any MIDI CC number (toggle or gate operation)
- MIDI Program change / Bank Select messages

Each button can have its own setting. And as with every other programmable control, these settings can be made from the front panel or by using the MIDI Control Center [p.65].
5.6.7. Three banks of controls

It looks like there are only 27 controls in this section, but there are actually 81! That’s because there are three separate banks of controls, which are selected using the three control buttons immediately to the left of the assignable controls.

Keep in mind that as you select the options that there are more fields in the display [p.45] for these controls than for the others (since there are three banks for each control).

Some options are available only through the MIDI Control Center [p.65], such as the color for the Select buttons.

5.6.7.1. Encoders

The encoders may be assigned to send one of the following types of data on any MIDI channel or the User channel:

- MIDI CC data within a specific range
- RPN/NRPN data within a specific range

Other important features of the encoders include:

- Absolute or Relative mode transmission methods can be chosen
- Encoders can be named
- Each encoder may have its own acceleration setting, which affects how many turns it takes to reach the minimum/maximum values. This setting can only be set using the MIDI Control Center [p.65].

5.6.7.2. Faders

The faders may be assigned to send one of the following types of data on any MIDI channel or the User channel:

- MIDI CC data within a specific range
- RPN/NRPN data within a specific range

Other important features of the faders include:

- Normal or Drawbar mode (inverted performance)
- Faders can be named
- They can be configured to send new values as soon as they are moved (Jump mode) or only after the current value of the parameter has been reached (Pickup mode). This choice can be made from the front panel of the KeyLab MkII [p.21] or using the MCC [p.65].
5.6.7.3. Buttons

The Select buttons may be assigned to send one of the following types of data on any MIDI channel or the User channel, or to recall onboard User presets:

- Two specific values of MIDI CC data
- A specific RPN/NRPN message
- MIDI Program change / Bank Select messages, or
- An onboard User preset

Information: Each of the 10 presets stores a unique configuration of assignments for controls, including buttons. If you would like to use the Select buttons to recall User presets, you may want to make the same assignments for them in each of the 10 available presets so that pressing the button(s) will always recall presets regardless of which preset is currently active.

You can also specify a particular color for each button using the MIDI Control Center [p.65]. If you choose the color blue to represent MIDI CC messages and the color green to represent Program Changes, for example, then you’ll know at a glance which button does what, even on a darkened stage.

5.6.8. Pedals / CV connectors

5.6.8.1. CV Input

Information: To learn the quickest way to select the CV connectors in User Edit mode, see Selecting the CV controls [p.47].

This rear-panel connector can receive incoming control voltages and turn them into MIDI data that your DAW can use. The voltage range can be defined, as can the MIDI response within that range. For more details see the CV/Gate chapter [p.62].

5.6.8.2. Pedals

Each of the 5 pedal inputs can be set to respond to foot switches or continuously variable pedals. The data types that can be sent are

- Switched Control: two specific MIDI CC values (toggle or gate operation)
- Program Change: MIDI Program change / Bank Select messages
- Control: MIDI Continuous Control data within a specific range
5.6.8.3. Control Voltage Outputs

These four outputs have very specific functions. We'll cover the details in the CV/Gate chapter [p.62], so what we'll focus on here are the general concepts:

- Pitch Out: Translates MIDI note number into a control voltage
- Gate Out: Translates MIDI note on/off messages into high/low trigger voltages
- Mod 1: Translates MIDI velocity data into a control voltage by default, but another source may be chosen
- Mod 2: Translates Modulation Wheel values into control voltages by default, but another source may be chosen

5.7. Non-assignable controls

As you can see, almost every button/pad/fader/knob on the front panel can be assigned to transmit various types of data. Here's a list of those that can't be reassigned:

- Chord / Transpose / Octave - / Octave +
- Pad / Chord mode buttons
- The three Control buttons
- Transport buttons
- Category / Preset / Left arrow / Right arrow
- Center knob
- Part 1 / Part 2 / Live (they select controller banks 1-3)
- MIDI Ch button: can only be used with the keyboard to set the User channel

ℹ️ The Transport buttons always send commands using the MCU / HUI protocols and cannot be reassigned in any mode.
5.8. Store the preset

⚠: Following the steps in this section will overwrite one of the 10 User presets. Make sure you’ve used the MIDI Control Center to back up anything you don’t want to lose.

It’s a good idea to save your work frequently, so once you’ve worked on a few controller assignments you should store the User preset. Since you’re already in User Edit mode you can take advantage of the keyboard shortcut to start the Store process, so press the top E key and let’s walk through it.

1. The first screen in Store mode asks you to choose one of the 10 User preset locations.
2. Turn the center knob to select an available User preset.
3. Click the center knob and enter a new name for the preset if you like. Use the center knob to select a character or letter, and use the Left / Right arrow buttons to move from one character field to the next.
4. When you are done naming the preset, click the center knob and the preset will be stored to the selected location.
5. The display will return to the top level of User mode with the new preset selected.

♪: Another way to begin the Save process from within User Edit mode is to press the User button, after which the display will ask you if you want to save what you have done. If so, click the center knob and follow the procedures outlined above.
KeyLab MkII features an advanced Chord mode which lets you perform chords on the keyboard or the pads using only one finger.

### 6.1. Overview of Chord mode

The Chord button [p.59] can record and recall a single chord, which can then be played on the keyboard.

The Chord button chord is not preserved when the KeyLab MkII is disconnected from a power source, but the pads [p.59] can store up to 32 Chords in two different Chord modes (Chord Memory [p.60] and Chord Transpose [p.60]).

The three buttons immediately to the left of the pads are the Pad mode buttons. The bottom two configure the pads to store and play chords (Chord Memory) or store and recall chords for the keyboard to play (Chord Transpose).
6.1.1. Three ways to play chords

Here’s an overview of how the Chord button, the keyboard, and the pads interact in each of the Pad modes:

- **Pad mode:**
  - The Chord button provides a single chord that can be played and transposed from the keyboard
  - The pads play MIDI notes, send MIDI CC data, and/or send program changes, etc.
  - Use of the Chord button is optional; when it is disabled the keyboard plays normally.
  - The Chord button chord is not preserved when the KL MkII is power-cycled.

- **Chord memory mode:**
  - The Chord button provides a single chord that can be played and transposed from the keyboard
  - The pads store and trigger up to 16 different chords
  - Use of the Chord button is optional; when it is disabled the keyboard plays normally.

- **Chord Transpose mode:**
  - The Chord button must be enabled
  - Use this method to build a ‘library’ of up to 16 chords by storing them on the pads
  - A chord can be recalled by a pad and then played and transposed from the keyboard.

The contents of the Chord Memory and Chord Transpose modes are stored with the User preset. An independent set of 32 chords is also available for each of the other modes (Analog Lab and DAW). So at any moment the KeyLab MkII can provide access to a total of 96 chords!

Remember, though: the status of the Chord button and its chord are not stored with the User preset. And loading a different User preset does not change the status of the Chord button: it stays enabled or disabled, just as it was when the preset was loaded.

6.1.2. How Chord mode works

The lowest note of the chord you enter is considered as the root note of the chord. For example, if G2, C3, and E3 are entered, you have constructed a C chord in the second inversion. But when you are in Chord mode, if you play C3 on the keyboard you will hear C3, F3, and A3. This is because you have told the KeyLab MkII to transpose the original chord you entered upward by five chromatic steps (i.e., a musical fourth). If you want to hear the original chord you will need to play the G2 key.

As an additional example, let’s say you want to use Chord mode to play a musical fifth with the root note on the bottom. Here’s what we recommend:

- Hold the Chord button
- Play a C and the G above it
- Release the Chord button to exit Chord entry mode
- Play a C key: you’ll hear a C and the next higher G
- Play an E key: you’ll hear an E and the next higher B.
6.2. Chord mode: the keyboard

Chord mode is toggled on and off for the keyboard by pressing the Chord button.

:i: Only one key may be played from the keyboard when the Chord button is enabled, unless the keyboard is in Split mode [p.50]. However, when Chord Memory mode is selected for the pads and the Chord button is disabled, the pads will play their assigned chords and the keyboard may be played polyphonically.

6.2.1. Create a chord for the Chord button

Hold the Chord button until it flashes and then enter up to 6 notes on the keyboard. Release the Chord button when you are done, and after this a single note on the keyboard will play the chord you defined. The notes in the chord will be shown in the display, and as you play different notes on the keyboard the chord will be transposed.

:i: All of the notes in a chord will be transmitted over USB and MIDI.

This method can be used to program a chord that would require 6 fingers, for example, or to construct an interval that is beyond your reach. Simply hold the Chord button and play each note one after the other, up to 6 notes, until all of the notes have been entered.

:i: The chord you create on the Chord button is not retained when the KeyLab MkII is power-cycled. However, chords can be stored to pads [p.60] using Chord Memory mode or Chord Transpose mode.

6.3. The pads: two Chord modes

The Chord Memory and Chord Transpose buttons allow the pads to do very different things. Both features are available in all three of the main modes (AL, DAW and User), and each main mode has its own set of 32 chords available (16 for Chord Memory and 16 for Chord Transpose).

We’ve included a set of preset chords in each Chord mode so you can start making music immediately. But you can also create and store your own chords on the pads.

The creation and storage procedures are the same for each Chord mode, so we’ll cover them both in the sections that follow. The results are very different, though. For a comparison of all three Chord modes, read the section Three ways to play chords [p.58] earlier in this chapter.
6.3.1. Pad Chord modes: Many uses

6.3.1.1. Chord Memory feature

The most obvious use of the Chord Memory feature is to play chords on the pads. You can use both hands to do this, for example, or you can trigger chords with your left hand and play a melody on the keyboard with your right hand.

A chord doesn't have to contain three or more notes, either. You can record two notes an octave apart and trigger some fat bass notes from the pads.

6.3.1.2. Chord Transpose feature

The Chord Transpose feature is similar to the Chord Memory feature in that it allows you to create and store 16 chords on the pads. But in this case the pads are used to recall chords for the keyboard to play. Remember, the Chord button must be enabled for the Chord Transpose feature to work.

With those things in mind, there are some great applications for the Chord Transpose feature. You can:

- Build simple chords or complex ones (up to 6 notes)
- Utilize the harmonic series to try different combinations of overtones for interesting lead sounds
- Enter the notes of several Barre chords on different pads and trigger a variety of power chords with one key.

However you choose to use the Chord Transpose feature, you can then recall these chords with your left hand and play them monophonically with your right hand.

6.3.2. Building a pad chord

The following procedures work the same way in all of the main modes (User, Analog Lab, DAW) whether you are in Chord Memory mode or Chord Transpose mode:

1. Enter the mode (the pads flash differently for each mode)
2. Press and hold the Chord button (next to the Trans button)
3. Select a pad:
   - in Chord Memory mode the selected pad turns green; the others flash
   - in Chord Transpose mode the selected pad turns lavender; the others are dark
   1. The previously-stored chord will be auditioned for reference
   2. Play a chord on the keyboard, either all notes at once or one note at a time
   3. Release the Chord button
   4. The pad will flash to indicate that the chord has been recorded
   5. You can repeat steps 2-7 on any pad to store multiple chords.
Once the chord has been recorded, each mode offers a different way to play the chord back.

- **Chord Memory** mode the pad will play the chord recorded in step 3. It does not matter if the Chord button is on or off.
- **Chord Transpose** mode the pad used in step 3 will select a chord for the keyboard to play. The Chord button must be enabled (lit) to activate Chord Transpose mode.

`: In either mode, when a chord is triggered using a different key than the lowest one used to build the chord, the display will show the transposed note names, not the original note names.

### 6.3.3. More about Chord Transpose mode

Chord Transpose mode is very different from Chord Memory mode, so it may be helpful to keep these concepts in mind:

- To activate Chord Transpose mode the Chord button must be enabled.
- Select the pad from step 3 above and play the middle C key on the keyboard. The chord you recorded will play from that key with no transposition.
- Play the middle D key and the chord will be transposed upward a whole step, etc.
- If you record a different chord on another pad, you can switch back and forth between the chords by selecting the pads, even if you keep playing the same key repeatedly.

For example: Record a C7 chord on pad 1 and a Cm7 chord on pad 2. To change which chord is played by middle C, press the desired pad.
7. CV / GATE / MOD CONNECTIONS

Rather than merely focus on controlling DAWs, plug-in software, and MIDI devices, the engineers at Arturia thought it would be really cool if the KeyLab MkII could also interface with modular analog synthesizers and their components.

And so on the rear panel we included a handful of control voltage connections, giving the KeyLab MkII the ability to interface with almost any kind of music-making technology. Incoming voltages can be converted to USB/MIDI data and captured by your DAW, where it can be used as a modulation source for plug-in synthesizers such as those found in Analog Lab.

And in the opposite direction, the front panel controls and pedals can be routed through the output connectors to the inputs of a modular synthesizer system.

7.1. CV Input connector

The CV input connector allows an incoming voltage to be used as a modulation source. In User Edit mode [p.47] the converted voltage can be routed to a specific MIDI CC#, on a particular MIDI Channel, within a defined range, as if it were another control such as an Aux Pedal, for example.

The converted signal will be sent to the MIDI and USB ports, where it can be used as a modulation source for external MIDI devices or a software plug-in, etc.

The incoming voltage would most likely be received from a semi-modular analog synthesizer such as Arturia’s MatrixBrute, a MiniBrute 2, or some other synthesizer. There are some great modulation sources available in Eurorack format, and the CV In connector enables you to grab the signal coming from one (or more) of those modules and use that complex signal within a DAW environment.

Different manufacturers use different voltage standards, and so the KeyLab MkII and the MIDI Control Center [p.65] (MCC) allow you to set the voltage range to match the incoming device. The range is 1-10 Volts, which is broad enough to cover any analog synthesizers you might encounter.

7.1.1. Parameters (User Edit mode)

<table>
<thead>
<tr>
<th>Connector / User Edit mode name</th>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>CV In / CV Mod In</td>
<td>MIDI Ch</td>
<td>1-16, User, Part 1, Part 2</td>
</tr>
<tr>
<td></td>
<td>CC</td>
<td>0-127</td>
</tr>
<tr>
<td></td>
<td>Max/MSB</td>
<td>0-127</td>
</tr>
<tr>
<td></td>
<td>Min/LSB</td>
<td>0-127</td>
</tr>
<tr>
<td></td>
<td>Volt range</td>
<td>1-10 V</td>
</tr>
</tbody>
</table>

Arturia - User Manual KeyLab MkII - CV / Gate / Mod connections
7.2. Pitch/Gate/Mod connectors

The Pitch/Gate/Mod output connectors convert data from the KeyLab MkII into voltages, which can then be used to trigger notes and control parameters on an external device such as a modular analog synthesizer.

Each of the four connectors in the output section has a different purpose. Each one can be edited in User Edit mode, where you can choose the options listed below in the charts [p.64].

7.2.1. Pitch Out

The normal use of a control voltage from this connector is to control the pitch on the target device. The output voltage is based on the MIDI note number that corresponds to the key being played. This output is monophonic, so the note priority must be specified: Low note, High note, or the Last note played.

7.2.2. Gate Out

This sends trigger events that are generated by the note on / note off activity on the keyboard. It is closely related to the Pitch Out connector, and will obey the note priority setting you have chosen.

Several options are available; see the documentation for your device to learn what sort of trigger it expects to see.

7.2.3. Mod 1

This is also a control voltage output, and its standard usage is to control a VCA (Voltage Controlled Amplifier). By default its voltage is determined by the velocity of the key being played on the KeyLab MkII, but it is possible to select a different source for this output in User Edit mode [p.47] or using the MCC [p.65]. For example, a fader or an encoder could be the source of this modulation. The maximum voltage range can be specified also.

7.2.4. Mod 2

This is also a control voltage output, and its standard usage is to control the frequency of a VCF (Voltage Controlled Filter). By default its voltage is determined by the Mod Wheel, but it is possible to select a different source for this output in User Edit mode [p.47] or using the MCC [p.65]. For example, a fader or an encoder could be the source of this modulation. The maximum voltage range can be specified also.
### 7.2.5. Parameters [in User Edit mode]

#### 7.2.5.1. CV Pitch

<table>
<thead>
<tr>
<th>Connector / User Edit mode name</th>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pitch Out / CV Pitch</td>
<td>Mode</td>
<td>Volt/Oct, Hz/Volt</td>
</tr>
<tr>
<td>BaseNote 0V [a]</td>
<td>Full MIDI note range (default = C-2)</td>
<td></td>
</tr>
<tr>
<td>BaseNote 1V [a]</td>
<td>Full MIDI note range (default = C 0)</td>
<td></td>
</tr>
<tr>
<td>Note Priority</td>
<td>Low / High / Last</td>
<td></td>
</tr>
<tr>
<td>Bend range</td>
<td>1-24 semitones</td>
<td></td>
</tr>
<tr>
<td>Assign</td>
<td>Part 1, Part 2</td>
<td></td>
</tr>
</tbody>
</table>

[a] These two settings are mutually exclusive

#### 7.2.5.2. CV Gate

<table>
<thead>
<tr>
<th>Connector / User Edit mode name</th>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gate Out / CV Gate</td>
<td>Mode</td>
<td>S-Trig, V-Trig (5V, 12V)</td>
</tr>
</tbody>
</table>

#### 7.2.5.3. CV Mod Out 1

<table>
<thead>
<tr>
<th>Connector / User Edit mode name</th>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod 1 / CV Mod Out 1</td>
<td>Assign</td>
<td>Any control (default: Velocity)</td>
</tr>
<tr>
<td></td>
<td>Volt range</td>
<td>1-10 V</td>
</tr>
</tbody>
</table>

#### 7.2.5.4. CV Mod Out 2

<table>
<thead>
<tr>
<th>Connector / User Edit mode name</th>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod 2 / CV Mod Out 2</td>
<td>Assign</td>
<td>Any control (default: Mod Wheel)</td>
</tr>
<tr>
<td></td>
<td>Volt range</td>
<td>1-10 V</td>
</tr>
</tbody>
</table>
KeyLab MkII has been designed to provide quick access to the controls you use most frequently. And though editing from the front panel is quick and easy, the MIDI Control Center (MCC) makes this process even faster. When the KeyLab MkII is connected to your computer, you may prefer to use the MCC to design your presets to match whatever software or instruments you might use.

8.1. Connecting to MIDI Control Center

Once you have downloaded the MCC and installed it, simply open the program while your KeyLab MkII is connected to your computer.

MCC will automatically connect to your device and display its image in the main window.

- If you have multiple Arturia devices connected to your system, you can specify which one you will be editing by selecting it from the drop-down menu in the Device section of the MCC.

Now that your KeyLab MkII is connected and selected, let’s go over a few of the simple ways to personalize your controller.

8.1.1. Device Memories

The Device Memories section of the MCC displays the 10 Memories that correspond to the 10 User presets within KeyLab MkII, as well as two Read-Only Memories dedicated to Analog Lab and DAW modes.

- **Analog Lab** - This Memory is dedicated to using KeyLab MkII within Analog Lab. It is read-only, which means it cannot be altered.
- **DAW** - This Memory is dedicated to using KeyLab MkII to control your recording software. It is read-only, which means it cannot be altered.
- **User 1-10** - These Memories correspond to User presets 1 - 10 inside the KeyLab MkII, and can be customized to match your setup.
- **Store to** - This function lets you save your current template to the highlighted User slot in the KeyLab MkII.
- **Recall from** - This function lets you recall the highlighted User preset from the KeyLab MkII, when enables you to edit and refine the settings. The revised Memory can be saved on your computer and stored directly into one of the KeyLab MkII User presets.
8.1.2. Local Templates

The Local Templates section lets you store and organize your custom User presets without needing to save or recall settings from KeyLab MkII. It also can be used to load pre-configured control maps generated by the Arturia user community.

- **Factory templates** - This section displays the default settings of KeyLab MkII, giving you a useful ‘initialized’ patch to start from or return to.
- **User templates** - This section displays the User presets you have recalled from the KeyLab MkII into your computer. These can also be templates created by other users that have been imported into the MCC.
- **Save** - Save the changes you have made to the current User template.
- **Save As** - Save a copy of the current User template and give it a new name.
- **New** - Creates a new, default User template.
- **Delete** - Deletes the User template currently highlighted.
- **Import** - Lets you import a pre-made User template by opening a browser. Simply locate the desired file and hit **Open**.
- **Export** - Lets you export your User template to the location of your choice. Just choose the location and name the file.

8.2. MCC Controller Map

The upper left corner of the MCC window has a tab labeled **ControllerMap**. This is the section that allows you to customize the way the pads, encoders, faders, keyboard, and pedal inputs react, as well as the settings for the CV Input and Output connectors. These settings can then be stored to one of KeyLab MkII’s 10 User presets.

To select a parameter to change, simply click the graphic of the front-panel control or rear-panel connector you would like to change.

> Some KeyLab MkII controls cannot be customized, such as those in the Transport section.

In the next part of the manual, we’ll take a look at the options available for each of the controls. We’ll describe the fields from top to bottom and left to right.
8.3. Customize the Wheels

- Settings of Part 2 and Both are only recommended when Split mode is active. That is the only time that Part 2 is available from the keyboard.

8.3.1. Pitch Bend

The Pitch Bend wheel is reserved for that function; it can’t be assigned to send any other type of MIDI data. But you can select whether it will affect Part 1, Part 2, or both.

8.3.2. Modulation

- **Mode:** Select ‘Control’ to view the rest of the parameters. Select ‘Off’ and the Modulation wheel will be disabled for both Part 1 and Part 2.
- **Channel:** Specify whether the Modulation wheel will affect Part 1, Part 2, or both.
- **CC Number:** The Modulation wheel sends MIDI CC# 1 by default, but it can be configured to transmit any MIDI CC#.
- **Min Value:** Click/drag the knob or enter a value in the field below to set the minimum value the Modulation wheel will send.
- **Max Value:** Click/drag the knob or enter a value in the field below to set the maximum value the Modulation wheel will send.

8.4. Select the User Channel

There’s a small, rectangular button between the wheels and the pads that is labeled MIDI Ch. Click the graphic and you will be able to specify the User MIDI channel for the KeyLab MkII.

- The MIDI Channel number selected for the MIDI Ch button will also change the MIDI Channel for any control that has its MIDI Channel set to “User”.

8.5. Customize the Pads

The Mode menu lets you choose one of the available modes for each pad independently. Each mode contains a unique set of parameters:

- Global pad velocity / aftertouch curves and backlight mode can be adjusted in the Device Settings tab.

8.5.1. Pad Off

Disables the pad. This can be used to prevent accidentally triggering the pad when it is not needed in the User preset.
8.5.2. Pad MIDI Note

This option is used to output standard MIDI notes from the pad.

- **Color**: Select the color the pad will illuminate when played or toggled on.
- **Option**: Choose between Gate and Toggle. Gate activates the pad only when played and deactivates it when released, and Toggle activates the pad when it is pressed, and deactivates it when it is pressed again.
- **Channel**: Select the MIDI channel output for the selected pad, between 1 and 16. This can also be set to “User”, which will make the pad output to the MIDI channel selected for the MIDI Ch button [p.67].
- **Note**: Select the MIDI note the pad will output when played, from C-2 to G8.

The default note assignments of the 16 pads are shown [here p.13].

8.5.3. Pad Switched Control

Select this option to use the selected pad to toggle between two MIDI CC# values.

- **Color**: Select the color the pad will illuminate when pressed or toggled on.
- **Option**: Choose between Gate and Toggle. Gate activates the pad only when pressed and deactivates it when released; Toggle activates the pad when it is pressed and deactivates it when pressed again.
- **Channel**: Select the MIDI channel output for the selected pad, between 1 and 16. This can also be set to “User”, which will make the pad output to the MIDI channel selected for the MIDI Ch button [p.67].
- **CC Number**: The selected pad can be set to transmit any MIDI CC# between 0-127. Many MIDI CC numbers are named within the drop-down menu to identify standard uses.
- **Off Value**: When the pad is released it doesn’t have to return to a zero value. Click/drag the knob or enter a value in the field below to set the minimum value the pad will send when it is released.
- **On Value**: Click/drag the knob or enter a value in the field below to set the maximum value the pad will send when it is pressed.

8.5.4. Pad Program Change

This option allows you to use KeyLab MkII’s pads to trigger program changes within virtual instruments, outboard synths, and much more.

- **Color**: Select the color the pad will illuminate when it is pressed or toggled on.
- **Channel**: Select the MIDI channel output for the selected pad, between 1 to 16. This can also be set to “User”, which will make the pad output to the MIDI channel selected for the MIDI Ch button [p.67].
- **Program Number**: Select the MIDI Program number the pad will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below.
- **Bank LSB**: Defines the Bank Select value for Least Significant Byte (MIDI CC# 32) that the pad will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below. Not all devices respond to Bank LSB, so consult the documentation of the hardware or software instrument you want to control.
**8.5.5. Pad Preset Change**

This option lets you use any of KeyLab MkII’s pads to select a different User preset within the KeyLab MkII.

- **Color**: Select the color the pad will illuminate when it is pressed.
- **User preset**: Choose one of the User presets between 1 and 10.

**8.6. Customize the User buttons**

The User buttons are found in the **DAW Controls / User** section of the front panel. These buttons are dedicated to their DAW functions in DAW mode and Analog Lab mode, but in User mode you can choose to use them as:

- dedicated DAW commands or
- freely assignable MIDI switches

You can choose either mode in the **Daw Buttons** field of the **Device Settings** tab.

If ‘User’ is selected for the DAW Buttons setting in Device Settings, then the buttons will use the settings specified in the **ControllerMap** page, described below.

**8.6.1. User button Off**

Disables the User button. This can be used to prevent accidentally pressing the button when it is not needed in the User preset.

**8.6.2. User button Switched Control**

- **Option**: Choose between Gate and Toggle. Gate activates the button only when pressed and deactivates it when released; Toggle activates the button when it is pressed and deactivates it when pressed again.
- **Channel**: Select the MIDI channel output for the selected button, between 1 and 16. This can also be set to “User”, which will make the button output to the MIDI channel selected for the **MIDI Ch button**.
- **CC Number**: The selected button can be set to transmit any MIDI CC# between 0-127. Many MIDI CC numbers are named within the drop-down menu to identify standard uses.
- **Off Value**: When the button is released it doesn’t have to return to a zero value. Click/drag the knob or enter a value in the field below to set the minimum value the button will send when it is released.
- **On Value**: Click/drag the knob or enter a value in the field below to set the maximum value the button will send when it is pressed.
8.6.3. User button Program Change

- **Channel**: Select the MIDI channel output for the selected button, between 1 to 16. This can also be set to “User”, which will make the button output to the MIDI channel selected for the MIDI Ch button [p.67].

- **Program Number**: Select the MIDI Program number the button will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below.

- **Bank LSB**: Defines the Bank Select value for Least Significant Byte (MIDI CC# 32) that the button will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below. Not all devices respond to Bank LSB, so consult the documentation of the hardware or software instrument you want to control.

- **Bank MSB**: Defines the Bank Select value for Most Significant Byte (MIDI CC# 0) that the button will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below. Not all devices respond to Bank MSB, so consult the documentation of the hardware or software instrument you want to control.

8.7. Customize the Encoders

There are 3 separate banks of encoders, which are selected using the Bank tabs.

![Bank1: Encoder 1 Bank2: Encoder 2 Bank3: Encoder 1](image)

*Encoder Bank 2 selected*

The Mode menu lets you choose between the 3 modes available for each encoder. Each mode contains a unique set of parameters:

8.7.1. Encoder Off

Disables the encoder. This can be used to prevent accidentally moving the knob when it is not needed in the User preset.
8.7.2. Encoder Control

- **Name**: Lets you enter a custom name for the encoder, which will be shown on the display when the knob is used. The name can be a maximum of 12 characters long.

- **Option**: This lets you change the encoders’ response from Absolute to Relative #1-3 [p.71].

- **Acceleration**: This parameter alters how the rotary encoder responds to the speed with which you turn it. This can be set as:
  - *None*: The encoders move at a set speed and do not accelerate.
  - *Medium*: The encoders will accelerate when moved faster.
  - *Fast*: The encoders will accelerate quickly when moved faster.
  - *1:1*: The encoders will precisely match the speed that you turn the rotary knob.

- **Channel**: Select the MIDI channel output for the selected encoder, between 1 to 16. This can also be set to “User”, which will make the encoder output to the MIDI channel selected for the MIDI Ch button [p.67].

- **CC Number**: The selected encoder can be set to transmit any MIDI CC# between 0-127. Many MIDI CC numbers are named within the drop-down menu to identify standard uses.

- **Min Value & Max Value**: These parameters let you set the minimum and maximum range of the selected encoder. Click and drag the knobs or enter a value in the fields below them to set the range.

> Setting the Min & Max Values of the encoders is a great way of ensuring you only ever move within the preferred range of a synth parameter, such as its output level, for example.

8.7.2.1. Relative control

The ‘Relative’ control options send only a few values to indicate direction and speed as the encoder is turned.

To be specific, a “relative” setting sends values 61-63 when turned in a negative direction and values 65-67 when turned in a positive direction. The turn speed determines which value is sent. Refer to the documentation of the target instrument to see if it can respond appropriately to these commands.

When configured this way, movements of the encoder will cause the target parameter to change by starting at its current setting, rather than being an “absolute” control and snapping it to some other value as soon as you start to move it.

This can be a great feature when controlling parameters like volume, filter, or effect controls, since you may not want them to jump noticeably from their current setting when they are modified.
8.7.3. Encoder RPN / NRPN

The encoders have the option to transmit Registered Parameter Numbers (RPN) or Non-Registered Parameter Numbers (NRPN). These are numbers that can be used by various manufacturers to allow their proprietary parameters to be controlled by external devices. Refer to the documentation of the target instrument to see if it can respond appropriately to these commands.

- **Option**: Specify whether the encoder needs to transmit RPN or NRPN data.
- **Channel**: Select the MIDI channel output for the selected encoder, between 1 to 16. This can also be set to “User”, which will make the encoder output the RPN/NRPN data to the MIDI channel selected for the MIDI Ch button [p.67].
- **RPN / NRPN LSB**: Defines the RPN/NRPN value for Least Significant Byte that the encoder will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below.
- **RPN / NRPN MSB**: Defines the RPN/NRPN value for Most Significant Byte that the encoder will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below.

8.8. Customize the Faders

There are 3 separate banks of faders, which are selected using the Bank tabs:

![Fader Bank 2 selected](image)

The Mode menu lets you choose between the 3 modes available for each fader. Each mode contains a unique set of parameters:

8.8.1. Fader Off

Disables the fader. This can be used to prevent accidentally moving the fader when it is not needed in the User preset.

8.8.2. Fader Control

This is the default mode for the fader, and it lets you customize how each fader responds when used.

- **Name**: Lets you enter a custom name for the fader, which will be shown on the display when the fader is used. The name can be a maximum of 12 characters long.
- **Option**: This lets you set the fader’s function between a traditional Fader, and a Drawbar for use with virtual organ instruments.
- **Channel**: Select the MIDI channel output for the selected fader, between 1 to 16. This can also be set to “User”, which will make the fader output to the MIDI channel selected for the MIDI Ch button [p.67].
• **CC Number**: The selected fader can be set to transmit any MIDI CC# between 0-127. Many MIDI CC numbers are named within the drop-down menu to identify standard uses.

• **Min Value & Max Value**: These parameters let you set the minimum and maximum range of the selected fader. Click and drag the knobs or enter a value in the fields below them to set the range.

### 8.8.3. Fader RPN / NRPN

The faders have the option to transmit Registered Parameter Numbers (RPN) or Non-Registered Parameter Numbers (NRPN). These are numbers that can be used by various manufacturers to allow their proprietary parameters to be controlled by external devices. Refer to the documentation of the target instrument to see if it can respond appropriately to these commands.

• **Option**: Specify whether the fader needs to transmit RPN or NRPN data.

• **Channel**: Select the MIDI channel output for the selected fader, between 1 to 16. This can also be set to “User”, which will make the fader output the RPN/NRPN data to the MIDI channel selected for the MIDI Ch button [p.67].

• **RPN / NRPN LSB**: Defines the RPN/NRPN value for Least Significant Byte that the fader will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below.

• **RPN / NRPN MSB**: Defines the RPN/NRPN value for Most Significant Byte that the fader will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below.

### 8.9. Customize the Select buttons

There are 3 separate banks of Select buttons, which are selected using the Bank tabs:

Select button Bank 2 is active

The Mode menu lets you choose between the 4 modes available for each Select button. Each mode contains a unique set of parameters:

#### 8.9.1. Select button Off

Disables the Select button. This can be used to prevent accidentally pressing the button when it is not needed in the User preset.

#### 8.9.2. Select button Switched Control

• **Option**: Choose between Gate and Toggle. Gate activates the button only when pressed and deactivates it when released; Toggle activates the button when it is pressed and deactivates it when pressed again.

• **Channel**: Select the MIDI channel output for the selected button, between 1 and 16. This can also be set to “User”, which will make the button output to the MIDI channel selected for the MIDI Ch button [p.67].
• **CC Number:** The selected button can be set to transmit any MIDI CC# between 0-127. Many MIDI CC numbers are named within the drop-down menu to identify standard uses.

• **Off Value:** When the button is released it doesn’t have to return to a zero value. Click/drag the knob or enter a value in the field below to set the minimum value the button will send when it is released.

• **On Value:** Click/drag the knob or enter a value in the field below to set the maximum value the button will send when it is pressed.

### 8.9.3. Select button RPN / NRPN

The Select buttons have the option to transmit Registered Parameter Numbers (RPN) or Non-Registered Parameter Numbers (NRPN). These are numbers that can be used by various manufacturers to allow their proprietary parameters to be controlled by external devices. Refer to the documentation of the target instrument to see if it can respond appropriately to these commands.

• **Option:** Specify whether the button needs to transmit RPN or NRPN data.

• **Channel:** Select the MIDI channel output for the selected button, between 1 to 16. This can also be set to “User”, which will make the button output the RPN/NRPN data to the MIDI channel selected for the MIDI Ch button [p.67].

• **RPN / NRPN LSB:** Defines the RPN/NRPN value for Least Significant Byte that the button will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below.

• **RPN / NRPN MSB:** Defines the RPN/NRPN value for Most Significant Byte that the button will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below.

### 8.9.4. Select button Program Change

• **Channel:** Select the MIDI channel output for the selected button, between 1 to 16. This can also be set to “User”, which will make the button output to the MIDI channel selected for the MIDI Ch button [p.67].

• **Program Number:** Select the MIDI Program number the button will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below.

• **Bank LSB:** Defines the Bank Select value for Least Significant Byte (MIDI CC# 32) that the button will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below. Not all devices respond to Bank LSB, so consult the documentation of the hardware or software instrument you want to control.

• **Bank MSB:** Defines the Bank Select value for Most Significant Byte (MIDI CC# 0) that the button will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below. Not all devices respond to Bank MSB, so consult the documentation of the hardware or software instrument you want to control.
8.10. Customize the Keyboard

KeyLab MkII’s keyboard can also be modified using the MIDI Control Center.

- **Part 1 Channel:** Select the output MIDI channel for Part 1, between 1 and 16. This can also be set to “User”, which will make Part 1 output to the MIDI channel selected for the MIDI Ch button [p.67].

- **Part 1 Semi:** This parameter is used to set the chromatic transposition amount for Part 1. This can be set in semitones, from -11 to +11.

- **Part 1 Octave:** This parameter is used to set the octave shift amount for Part 1. The range is -3 to +3 octaves.

- **Velocity Curve:** Three settings are available: Linear (Lin), Logarithmic (Log), or Exponential (Exp). This setting applies to both Part 1 and Part 2.

- **Split Mode:** When set to Off, Part 1 is the only active Part and the rest of the parameters in this list are hidden. When set to On, Part 2 becomes active and the rest of the parameters in this list are revealed. Part 1 is on the right side of the split; Part 2 is on the left side of the split.

- **Split Point:** Allows you to set the split point between Part 1 and Part 2.

- **Part 2 Channel:** Select the output MIDI channel for Part 2, between 1 and 16. This can also be set to “User”, which will make Part 2 output to the MIDI channel selected for the MIDI Ch button [p.67].

- **Part 2 Semi:** This parameter is used to set the chromatic transposition amount for Part 2. This can be set in semitones, from -11 to +11.

- **Part 2 Octave:** This parameter is used to set the octave shift amount for Part 2. The range is -3 to +3 octaves.

- **Oct buttons assign:** Specify whether the Octave buttons will shift Part 1 or Part 2, or both.

- **Trans button assign:** Specify whether the transposition affects Part 1 or Part 2, or both.

- **Chord button assign:** Choose whether Part 1, Part 2, or both will play the chord stored on the Chord button. This also affects which half of the keyboard will work with the pads when they are in Chord Transpose mode.

- **Aftertouch assign:** Select whether aftertouch is active for Part 1, Part 2, or both.

> The keyboard aftertouch curve can be specified on the Device Settings tab. It is a Global parameter, which means it is not stored as part of the Template.
8.11. Customize the CV Modulation Input

The CV In connector on the rear panel can be customized from the front panel or the MCC. Here are the available options:

8.11.1. Mod CV max voltage

Available ranges are between 1 and 10 Volts. Different manufacturers use different voltage standards, so please refer to the documentation for your device to know which maximum voltage range you should select.

8.11.2. Mod CV Mode menu

The Mode menu lets you choose between the 2 modes available for the pedal inputs. Each mode contains a unique set of parameters:

8.11.2.1. Mod CV Off

Disables the CV In connector. This can be used to prevent accidentally changing your sound when the Mod CV input is not needed in the User preset.

8.11.2.2. Mod CV Control

- **Channel**: Set the MIDI transmission channel for the Mod CV input, between 1 to 16. This can also be set to “User”, which will make the Mod CV input transmit to the MIDI channel selected for the MIDI Ch button [p.67].
- **CC Number**: The Mod CV input can be set to transmit any MIDI CC# between 0-127. Many MIDI CC numbers are named within the drop-down menu to identify standard uses.
- **Min Value & Max Value**: These parameters let you set the minimum and maximum range of the Mod CV input. Click and drag the knobs or enter a value in the fields below them to set the range.

8.12. Customize the Pedals

: All 5 pedal inputs have the same parameters, so we'll cover them all in this section.

The Mode menu lets you choose between the 4 modes available for the pedal inputs. Each mode contains a unique set of parameters:

8.12.1. Pedal Off

Disables the selected pedal. This can be used to prevent accidentally changing your sound when the selected pedal is not needed in the User preset.
8.12.2. Pedal Control

This mode lets you customize how each pedal responds when used.

- **Channel**: Select the MIDI channel output for the selected pedal, between 1 to 16. This can also be set to “User”, which will make the pedal output to the MIDI channel selected for the MIDI Ch button [p.67].

- **CC Number**: The selected pedal can be set to transmit any MIDI CC# between 0-127. Many MIDI CC numbers are named within the drop-down menu to identify standard uses.

- **Min Value & Max Value**: These parameters let you set the minimum and maximum range of the selected pedal. Click and drag the knobs or enter a value in the fields below them to set the range.

![Info Icon]: The Continuous Pedal Calibration [p.81] parameter in the Device Settings section [p.79] allows you to calibrate the physical response range for each pedal when its Mode is set to Control.

8.12.3. Pedal Switched Control

This option can be selected to use your pedal as a binary switch.

- **Option**: Choose between Gate and Toggle. Gate activates the pedal only when pressed and deactivates it when released; Toggle activates the pedal when pressed and deactivates it when it is pressed again.

- **Channel**: Select the MIDI channel output for the selected pedal, between 1 to 16. This can also be set to “User”, which will make the pedal output to the MIDI channel selected for the MIDI Ch button [p.67].

- **CC Number**: The selected pedal can be set to transmit any MIDI CC# between 0-127. Many MIDI CC numbers are named within the drop-down menu to identify standard uses. For example, to use one of the pedals as a sustain pedal, set this value to CC# 64.

- **Off Value**: When the pedal is released it doesn’t have to return to a zero value, although a zero value may be needed for some external devices or software plug-ins to function properly. Click/drag the knob or enter a value in the field below to set the minimum value the pedal will send when it is released.

- **On Value**: Click/drag the knob or enter a value in the field below to set the maximum value the pedal will send when it is pressed.

![Info Icon]: All 5 pedal inputs can detect the polarity of a foot switch when the KeyLab MkII is powered up. To make sure this happens, set the desired pedal input to the Switched control mode. This is not a global parameter, though, so if you want each User preset to be configured this way you will need to store this setting separately in each User preset.
8.12.4. Pedal Program Change

This option lets you use any of the pedal inputs to send MIDI Program changes.

- **Channel**: Select the output MIDI channel for the selected pedal, between 1 to 16. This can also be set to “User”, which will make the pedal transmit on the MIDI channel selected for the MIDI Ch button [p.67].

- **Program Number**: Select the MIDI Program number the pedal will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below.

- **Bank LSB**: Defines the Bank Select value for Least Significant Byte (MIDI CC# 32) that the pedal will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below. Not all devices respond to Bank LSB, so consult the documentation of the hardware or software instrument you want to control.

- **Bank MSB**: Defines the Bank Select value for Most Significant Byte (MIDI CC# 0) that the pedal will send when activated. Click/drag the knob or enter a value between 0 and 127 in the field below. Not all devices respond to Bank MSB, so consult the documentation of the hardware or software instrument you want to control.

8.13. Customize the Pitch Out

Click the CV Out connector on the rear-panel graphic to edit the following settings in the MCC.

- **Pitch CV Output**: There are two standards: Volts per Octave and Hertz per Volt. The choice you make for this parameter will determine which of the next two settings is available for the next parameter. Please refer to the documentation of the hardware instrument you want to control to find out which standard it supports.

- **0V MIDI note (Volts per Octave selected)**: The default is C-2 (MIDI note 0), but this can be set anywhere between C-2 and G8 (MIDI note 127).

- **1V MIDI note (Hertz per Volt selected)**: The default is C0 (MIDI note 24), but this can be set to any MIDI note number between C-2 and G8 (MIDI notes 0-127).

- **Note Priority**: The Pitch Out connector is monophonic, and since the KeyLab MkII is a polyphonic keyboard controller it is necessary to specify whether the control voltage should be based on the lowest note in a chord (Low), the highest note in a chord (High), or the most recent note played (Last).

- **Pitch Bend Range (Semi-tones)**: This parameter determines how much the control voltage will be allowed to change when the KeyLab mk II Pitch Bend wheel is used. You can set the range to any value between 1 semi-tone and 24 semi-tones (2 octaves).

- **Pitch Assignment**: With this parameter you are able to specify whether the Pitch Out connector will receive its control voltages from Part 1 or Part 2.

8.14. Customize the Gate Out

The Gate Out connector is used to convert note on / off information from the keyboard into trigger status events. There are three options for this parameter: **S-Trig, V-Trig 5V, and V-Trig 12V**. Please refer to the documentation of the hardware instrument you want to control to find out which standard it supports.
8.15. Customize the Mod 1 / Mod 2 outputs

- The Modulation outputs have the same parameters, so we’ll cover them both in this section.

These two Modulation outputs provide additional continuous control voltages for use with modular synthesizers.

- **Mod CV Source**: The default source is keyboard velocity, but any one of the continuous controls on the KeyLab MkII can be used. The Select buttons can be used, too; they toggle between the maximum and minimum voltages specified by the next parameter.

- **Mod CV max voltage**: This allows you to specify the range of voltages that will be generated by the selected Modulation source, with the maximum values selectable between 1 and 10 Volts. Please refer to the documentation of the hardware instrument you want to control to find out which voltage standard it supports.

8.16. The Device Settings tab

The upper right-hand corner of the MCC has a tab labeled **Device Settings**. This is where you find the Global settings for the KeyLab MkII. There are multiple sections on this page, each with two or more settings. Let’s take a closer look at what each parameter does.

8.16.1. Global Parameter section

- **Low Power Mode**: When this parameter is set to On it disables the power-up light sequence and Vegas mode.

- **Vegas Mode**: When KeyLab MkII is left idle and untouched for around 5 minutes, it will begin an eye-catching, colorful light show. You can choose to enable or disable Vegas Mode by setting this parameter On or Off.

- **Octave Button Blink**: When set to On, the Octave buttons will blink while a negative or positive transposition is active. When set to Off, Octave buttons will be lit continuously while a negative or positive transposition is active.

- **User Fader Mode**: This setting changes how KeyLab MkII’s faders react in User mode. The two settings are:
  - **Pickup**: the faders in your User preset will not generate new values until they match the last value they transmitted. This is important when you’re dealing with 3 banks of faders: if you switch from bank 1 to bank 2, move some faders, and then come back to bank 1, you may not want the values of the parameters being controlled by the bank 1 faders to jump suddenly.
  - **Jump**: the faders in your User preset will generate new values as soon as they are moved, regardless of the values they sent previously.
8.16.2. DAW section

- **DAW Map**: This lets you use the MCC to select which DAW preset your KeyLab MkII will use. The complete list of presets is found here [p.34].
- **DAW Fader Mode**: This setting changes how KeyLab MkII’s faders react within your recording software. The two modes available are:
  - **Pickup**: the fader in your DAW will not move until the fader position on your controller crosses the current DAW fader position.
  - **Jump**: the fader in your DAW will jump immediately to the current position of the fader on your controller as soon as it is moved, and follow its movement from there.
- **DAW Buttons**: Specifies how the DAW Control buttons will function while in User Mode:
  - **DAW**: buttons will send standard DAW channel commands, such as solo / mute / rec, and cannot be reassigned. See DAW Preset Command chart [p.65] for details about your specific DAW.
  - **User**: buttons can be assigned to send note, control change (on/off), program change messages, or recall onboard User presets.
- **Track Control Buttons**: Selects the function of the Track Control buttons:
  - **Single Track**: The Track Control buttons apply a function (solo, mute, etc) to the currently selected track.
  - **Multi Track**: The Track Control buttons select a function (solo, mute, etc) that will be applied to tracks when the corresponding Select buttons are pressed. This option can be used to quickly control multiple tracks at once.

8.16.3. Pads section

- **Pads Velocity Curve**: Determines the velocity curve that is used by the pads. Four settings are available: Linear (Lin), Logarithmic (Log), Exponential (Exp), or Fixed (Fix).
- **Pads Aftertouch Curve**: Determines the aftertouch curve that is used by the pads. Three settings are available: Linear (Lin), Logarithmic (Log), or Exponential (Exp).
- **Pads Aftertouch Min**: Sets the minimum aftertouch value that will be generated by the pads.
- **Pads Aftertouch Max**: Sets the maximum aftertouch value that will be generated by the pads.
- **Pads backlight**: Determines whether the pads will be lit continuously (Always On), or only when pressed (Light on Trig)

8.16.4. Keys section

- **Keys Aftertouch Curve**: These parameters let you alter the aftertouch response of KeyLab MkII’s keyboard. Three settings are available: Linear (Lin), Logarithmic (Log), or Exponential (Exp).
- **Keys Aftertouch Min**: Sets the minimum aftertouch value that will be generated by the keyboard.
- **Keys Aftertouch Max**: Sets the maximum aftertouch value that will be generated by the keyboard.
8.16.5. MIDI Thru section

These two settings determine whether data will be passed between the MIDI and USB connectors in both directions, only one direction, or not at all.

- **MIDI IN to USB**: A setting of On allows data received at the physical MIDI In connector to be passed over USB to your DAW or another USB device. A setting of Off prevents this.
- **USB to MIDI Out**: A setting of On allows data received via USB to be send to external devices via the physical MIDI Out connector. A setting of Off prevents this.

8.16.6. Continuous Pedal Calibration

> Each of the 5 pedal inputs has the same parameters in this section, so we’ll cover them all at the same time.

When the Mode of a Pedal is set to Control (as opposed to Switched Control), it is possible to adjust the input to work with a wide range of variable pedals.

- **Pedal Min**: sets the value to match the lower end of the resistor range
- **Pedal Max**: sets the value to match the upper end of the resistor range

8.17. Import and Export buttons

You can also Import and Export all of the Device Settings, which allows you to configure any KeyLab MkII with your preferred settings at once. An exported Device Settings file carries the extension `.keylabMkII.ds`.

8.18. Firmware Updates

Directly below the controller name in the top left you will see a Firmware Revision field. This displays the current firmware version of the connected KeyLab MkII. When a new firmware update becomes available you may see a message below. To update the firmware, press the button (where the current firmware version number is shown) to start the update process, then follow the on-screen instructions.

> If some of the features explained in this manual are not accessible on your KeyLab MkII, you may need to update its firmware to the latest version for them to become available.
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10. DECLARATION OF CONFORMITY

USA

**Important notice: DO NOT MODIFY THE UNIT!**

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirement. Modifications not expressly approved by Arturia may void your authority, granted by the FCC, to use the product.

**IMPORTANT:** When connecting this product to accessories and/or another product, use only high quality shielded cables. Cable(s) supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

**NOTE:** This product has been tested and found to comply with the limit for a Class B Digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide a reasonable protection against harmful interference in a residential environment. This equipment generate, use and radiate radio frequency energy and, if not installed and used according to the instructions found in the users manual, may cause interferences harmful to the operation to other electronic devices. Compliance with FCC regulations does not guarantee that interferences will not occur in all the installations. If this product is found to be the source of interferences, witch can be determined by turning the unit “OFF” and “ON”, please try to eliminate the problem by using one of the following measures:

- Relocate either this product or the device that is affected by the interference.
- Use power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter(s).
- In the case of radio or TV interferences, relocate/ reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial cable.
- If these corrective measures do not bring any satisfied results, please the local retailer authorized to distribute this type of product. If you cannot locate the appropriate retailer, please contact Arturia.

The above statements apply ONLY to those products distributed in the USA.

CANADA

**NOTICE:** This class B digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulation.

**AVIS:** Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

EUROPE

![CE]

This product complies with the requirements of European Directive 89/336/EEC

This product may not work correctly by the influence of electro-static discharge; if it happens, simply restart the product.