_KEYLAB ESSENTIAL MK3

ARTURIA
_The sound explorers

Special Thanks

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Congratulations on purchasing the Arturia KeyLab Essential mk3!

Get ready to start your musical journey.

KeyLab Essential is a class-compliant, universal MIDI controller, capable of harnessing the power of practically any software instrument and DAW. It has been designed to enhance your workflow, let you spend less time using a keyboard and mouse to create music, and seamlessly integrate with Arturia Analog Lab V.

This instruction manual covers the general use and features of KeyLab Essential, and goes into more detail on the technical aspects of the controller so you can make the most of its advanced functionality.

In this package, you will find:

- KeyLab Essential controller keyboard
- USB cable
- Analog Lab V license for download
- Ableton Live Lite
- Native Instruments The Gentleman
- LoopCloud
- UVI Model D
- Melodics

Don't lose your registration information! The serial numbers and activation codes detailed in the Quick Start Guide are required to unlock your software.

Remember to register! It sounds boring, but it's worth it. Registering is important because it lets you download and activate Analog Lab V, as well as the Arturia MIDI Control Center.

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.

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1. WELCOME TO KEYLAB ESSENTIAL

1.1. What's KeyLab Essential?

Congratulations – you have made a great choice!

KeyLab Essential has been designed to be your best friend when you're making music. Whether on stage, in studio or while rehearsing and jamming, you need transparency and direct routes to the sounds you have in your head.

KeyLab Essential is a lighweight and easy-to-use MIDI keyboard controller. But don't let its elegant appearance fool you – it's huge on features usually found in more expensive keyboards.

Not only can you use KeyLab Essential to play your sound modules (inside or outside of your computer), but also control important functions inside your DAW. This will boost your workflow!

KeyLab Essential automatically recognizes and controls popular DAWs including Ableton Live, Apple Logic Pro, Bitwig Studio, Image-Line FL Studio, and Steinberg Cubase. On top of that, KeyLab Essential can control any DAW using the MCU/HUI protocol.

You can control your DAW transport with dedicated Transport buttons, use the knobs to tweak plug-in parameters, and adjust track volumes and pans by using the KeyLab Essential faders.

A complete keyboard production studio, KeyLab Essential also comes with the incredible **Arturia Analog Lab V** – your very own vintage and modern keyboard collection, with access to over 2000 presets from the award-winning V Collection, ready to customize and play in an instant.

Whether you want a searing-hot synth lead or an ethereal string pad, a vintage upright piano or a complex, animated soundscape, KeyLab Essential gives you everything you need to perform and record. All the ingredients of the cocktail are there and ready to be mixed according to your own style.

Nine endless encoder knobs and nine faders give you hands-on access to numerous sound sculpting parameters inside Analog Lab V. Other V Collection instruments can also be remotely controlled whis way, when you customize the settings in MIDI Control Center. Live sound editing should always be this easy!

You'll play KeyLab Essential's 49 or 61 velocity sensitive, synth-action keys. The eight backlit performance pads sense velocity *and* aftertouch. Plus there are Pitch Bend and Modulation Wheels, of course.

Please note, that the front and rear panels of the 49- and 61-key keyboards sport exactly the same buttons, knobs, faders and connectivity. They're just spaced a bit differently on the larger models.

On top of that, Arturia's **MIDI Control Center** software (a free download) lets you map parameters directly to KeyLab Essential's physical controls to create custom configurations. You can then save these as user programs and recall them from the KeyLab Essential hardware.

> ! For further information **MIDI Control Center**, please consult MIDI Control Center manual, an app available for download from the Arturia website.

1.2. KeyLab Essential Features Summary

- 49- or 61-key velocity-sensitive keyboard.
- Eight velocity- and pressure-sensitive RGB pads.
- Two pad banks for a total of 16 functional pads.
- Dentented and clickable main encoder knob for navigation.
- Large easy-to-read display.
- DAW Transport control via dedicated buttons plus Save, Quantize, Undo, and Redo.
- Nine endless encoder knobs and nine faders.
- Wheels for pitch-bend and modulation.
- Hold button for hands-free (and feet-free) sustain.
- Full-featured classic synth style arpeggiator.
- Chord play memorizes and plays user defined chords from one note.
- Scale mode makes it easy to always play in the right key and tonality.
- Hold, Arpeggiator, Chord, and Scale can be combined.
- Octave and semitone transpose functions.
- USB-C powered.
- MIDI via USB-C and standard 5-pin MIDI output.
- 1/4-inch TRS input accepts sustain, switch, or expression/continuous control pedal.
- Included software:
  - Arturia Analog Lab V,
  - Ableton Live Lite,
  - Native Instruments The Gentleman,
  - UVI Grand Piano Model D,
  - Melodics subscription,
  - Loopcloud subscription.
- USB-C to USB-A cable included.

2. INSTALLATION

The first thing to do upon receiving your KeyLab Essential keyboard, after having completed the registration process, is to update its firmware. Indeed, Arturia releases periodic firmware updates to add functionality and improve performance.

To proceed with the update, you'll first need to download and install the **MIDI Control Center**, the powerful companion software we designed to work with our hardware, from the KeyLab Essential's Resources page.

Once this is done, you can follow these steps to upgrade the firmware of KeyLab Essential:

 1. Download the latest firmware from the KeyLab Essential's Resources page.

 2. Launch MIDI Control Center.

 3. Please make sure KeyLab Essential 3 is selected under Device in MIDI Control Center. Click on the box showing the firmware revision:
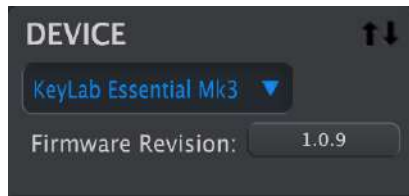
 4. Click "Upgrade" in the dialogue box that follows, then navigate to the firmware file on your computer and select it. The four buttons are now lit in blue, running in cycle.

 5. Follow the rest of the onscreen instructions. When the firmware loading is complete, KeyLab Essential will restart and be ready for use.

Once your KeyLab Essential is ready, you can start using it to control various virtual instruments, like our own Analog Lab V [p.34].

For more information on how the MIDI Control Center works with the KeyLab Essential, please refer to the dedicated manual in the KeyLab Essential section of our Downloads & Manuals page.

3. HARDWARE OVERVIEW

3.1. Connecting KeyLab Essential

First of all, we recommend that you install the **Analog Lab V** and **MIDI Control Center** and be sure to register and authorize them. Connect KeyLab Essential to your computer using the included USB cable. Power and data is supplied through this connection.

You are strongly recommended to download the MCC and let it install KeyLab Essential's custom driver. Without this specific driver under Windows, you won't be able to use MIDI with multiple instances that use MIDI protocol on your computer.

3.2. Front Panel

The controls on the front panel of KeyLab Essential are as follows.

Number	Name	Description
1.	Wheels [p.9]	These easy-to-reach controllers act as pitch-bend and modulation wheels.
2.	MIDI Ch button	This button lets you select MIDI out channel.
3.	Bank button	Choose to use Bank A or B for the Performance Pads.
4.	Transp –/+ buttons	Transpose the keyboard in semitone steps.
5.	Octave –/+ buttons	Transpose the keyboard up or down an octave.

Number	Name	Description
6.	Pads [p.12]	For finger drumming and playing MIDI notes. Velocity- and pressure-sensitive.
7.	Save/Quant/Undo/Redo buttons	This section lets you manage your Presets and quantize Scales and Rhythm.
8.	DAW Command Center	Remote controls for your DAW.
9.	Large Display	Shows parameter names, values, and all information about KeyLab Essential status.
10.	Contextual buttons	Four buttons with various tasks depending on context.
11.	Dentented Main Encoder	Navigates Presets in Analog Lab [p.34], navigates into KeyLab Essential's feature menu, and performs other functions in DAWs [p.43]. Is also a clickable select button.
12.	Program button	Navigates through the 3 main operating modes: Arturia, DAW, and User.
13.	Part button	Handles Part selection and Split Points.
14.	Hold button	Sustains notes and arpeggios played from the keys (not the pads) when active.
15.	Chord button	A convenient function for playing chords with one finger.
16.	Scale button	Reduces the number of notes on the keyboard to those that fit a particular key and tonality.
17.	Arpeggio button	A Controller Keyboard without an Arpeggiator? We don't think so.
18.	Knobs and Faders	Control parameters in plugins, e.g. instrument and effects.
19.	MIDI Keyboard	49 or 61 velocity sensitive, synth-action keys. Velocity curve can be edited in the MIDI Control Center App.

> ! **Velocity sensitive**: Both the MIDI keyboard and the pads on KeyLab Essential are sensitive to how hard you play them. Hit harder for higher volume.

> ! **Pressure Sensitivity**: Playing a pad and then pressing it harder will send out Pressure data that can trigger various modulation changes (filter, volume etc.).
> Pressure sensivity is often called **Aftertouch**. KeyLab Essential pads use the more luxurious version called **Polyphonic Aftertouch**, where each pad sends out individual data.

3.3. Rear Panel

Number	Name	Description
1.	Kensington Lock Port	This socket accepts a standard Kensington laptop lock for anti-theft.
2.	Control Pedal Input	1/4" TRS; accepts sustain pedal, footswitch, or a continuous controller (expression pedal).
3.	MIDI Out	5-pin DIN MIDI output for controlling hardware synth modules. Can also be used as MIDI Thru.
4.	USB-C port	Use this socket to connect KeyLab Essential to your device. This USB-C port provides both power, MIDI data, and control information. Alternatively, a Power Supply Unit can connect to this port to power KeyLab Essential, when the MIDI connector is used.

3.4. Display

By default, the main Display momentarily shows a graphic of whatever control you touch, along with the value sent by that control as you move it. For example, this is what is displayed when you move a knob:

Fader 5
84
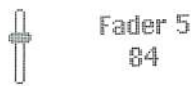
When you strike a pad, the display first shows your initial velocity. If you then apply after-pressure, it will display that value.

4. KEYLAB ESSENTIAL OPERATIONS

4.1. Wheels

To the left is the pitch-bend wheel. It is spring-loaded: If you push it in one direction and then remove your finger, the wheel snaps back to its center position. The bend range can be adjusted in the MIDI Control Center software (see separate manual). In fact, the MIDI Control Center app allows you to customize the function of almost every physical control of your KeyLab Essential or other Arturia controller.

Pushing the modulation wheel on the right increases the modulation amount. As with a modulation wheel on any synth, the wheel and its current value stays where you leave it when you remove your finger, until you manually move the modulation wheel again.

The modulation wheel by default sends MIDI CC 1 (the usual control number for modulation), but this control number can also be changed in the MIDI Control Center app. If you want to control the Volume or Filter Cutoff Frequency or any other parameter of your sound device, this can be done.

Movements of these wheels will be reflected in the Display.

4.2. MIDI Channel

When working in a DAW or multiple hard- or software instruments, you may want to decide what MIDI channel KeyLab Essential uses to send notes and controller data. You can easily change that channel number by holding the MIDI Channel button and pressing the correct key on the keyboard.

The notes from the lowest C to D# (Eb) in the second octave set MIDI channels to 1–16. Example: If you want to transmit on channel 10, hold the MIDI Channel button and hit the lowest A key.

The MIDI channel numbers are printed on the front panel for easy reference.

4.3. Bank

KeyLab Essential has 8 Pads that allow you to conveniently play MIDI notes or drum sounds. While only 8 pads may seem a bit meager, you can actually use 2 banks. This enables you to play/trigger a total of 16 (8 + 8) notes.

By default, Bank 1 plays MIDI notes 36 (C1) to 43 (G1). Bank 2 plays 44 (G#1) to 51 (D#2).

Pad Bank	1	2	3	4	5	6	7	8
A	40 (E1)	41 (F1)	42 (F#1)	43 (G1)	36 (C1)	37 (C#1)	38 (D1)	39 (D#1)
B	48 (C2)	48 (C#2)	50 (D2)	51 (D#2)	44 (G#1)	45 (A1)	46 (A#1)	47 (B1)

You can switch between Bank 1 and 2 by pressing the Bank button. While doing so, the Display confirms what Bank is currently selected.

> ! When Bank B is selected, the Bank button shines brighter.

4.4. Transpose -/+ and Octave -/+
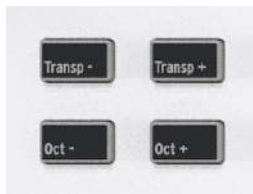
To transpose the keyboard up or down one semitone, press **Transp-** or **Transp+**. When the keyboard is transposed one or several semitones, the button shines brighter.

> ! By pressing Transp- and Transp+ at the same time, any transposition shift is **reset**.

To shift the keyboard up or down an octave, press the **Oct-** or **Oct+** button. You can transpose 3 octaves down and 3 octaves up. When the keyboard is transposed one or several octaves, the button shines brighter.

> ! By pressing Oct- and Oct+ at the same time, any octave shift is **reset**.

The Display will reflect your action in either case. Transpose and Octave-shift apply to the keyboard only, not the pads. The pads send MIDI note numbers, and those note numbers may be edited in the MIDI Control Center app.

4.5. Pads
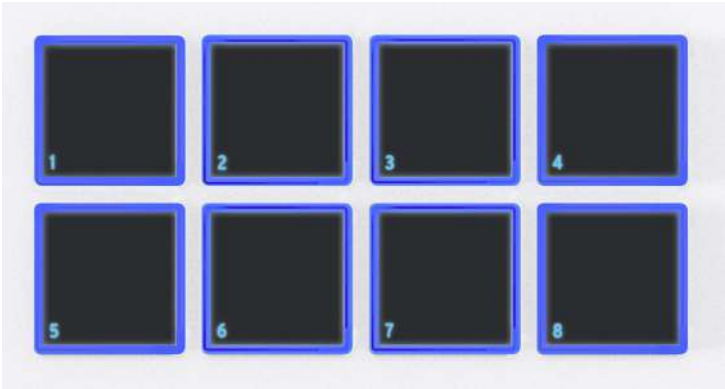
The eight velocity- and poly pressure-sensitive pads on KeyLab Essential serve multiple purposes. In their default state, they send MIDI notes on channel 10 – the channel most commonly used for drums in a DAW or multi-timbral synthesizer.

Press **Bank** to switch between pad banks A and B. Bank B sends other MIDI notes, also on channel 10. The default note numbers – which may all be changed for User Modes in the MIDI Control Center app – are:

Pad Bank	1	2	3	4	5	6	7	8
A	40 (E1)	41 (F1)	42 (F#1)	43 (G1)	36 (C1)	37 (C#1)	38 (D1)	39 (D#1)
B	48 (C2)	48 (C#2)	50 (D2)	51 (D#2)	44 (G#1)	45 (A1)	46 (A#1)	47 (B1)

> ℹ ! Every time you press the Bank button, the Display will confirm what Bank is currently selected.

4.6. DAW Control Section

KeyLab Essential allows you to remotely control your DAW. We have created DEEP scripts for 5 major DAWs:

- Ableton Live

- Apple Logic Pro

- Bitwig Studio

- Image-Line FL Studio

- Steinberg Cubase

KeyLab Essential automatically recognizes the above DAWs. On top of that, KeyLab Essential can control **any DAW** on the market thanks to the MCU and HUI protocols.

> ℹ️ ! In order to use this sophisticated version of DAW Control, the scripts must be properly installed. To do so, please upload the latest version of your favorite DAW.

> ℹ️ ! You can download dedicated User Guides for each DAW from the KeyLab Essential's Resources page.

You enter DAW mode by pressing the **Prog** button until the display says **DAWs**. This mode is required if you want a deep integration using the scripts written for the 5 above mentioned DAWs. DAW Control works in any of the Prog modes thanks to the MCU and HUI protocol.

The twelve buttons to the left of the Display are all DAW related, although Save, Undo and Redo can also be used in Arturia Software. These buttons send control messages to your software, and they are designed to work conveniently with any DAW. If you want, you can re-configure these buttons in MIDI Control Center.

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

- **Save:** Saves your track.
- **Quant:** Turns Quantize on and off.
- **Undo:** Reverses your last action, such as deleting a track, or capturing a MIDI performance.
- **Redo:** Reverses your last Undo action.

The DAW Command Center also puts popular transport controls at your fingertips:

- **Loop:** Toggles the Loop function in your DAW on and off. The loop region is set within your software.
- **Rewind/Fast-forward:** Quickly jogs the playback cursor back and forth, letting you conveniently find specific points in your track while editing.
- **Metronome:** Toggles your DAW's metronome on and off.
- **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.
- **Tap:** Tap Tempo to enter a BPM value.

The buttons in the DAW Command Center default to a general workable configuration, and you can re-configure them in MIDI Control Center.

The output of the DAW Command Center can be toggled between MCU and HUI protocols within the MCC.

> **NOTE**: KeyLab Essential's compatibility with your chosen DAW will depend on how each manufacturer handles the MCU and HUI protocols. For more information, consult the KeyLab Essential page on the Arturia website, or the documentation of your preferred DAW.

- **User Programs:** KeyLab Essential can store up to 6 User Programs – custom control mappings you have created in the MIDI Control Center app (see separate manual). User Presets may be individually enabled or disabled in the Device Settings of the MIDI Control Center app. We will explain what to do in more detail in Chapter 5, but for now, know that holding **Prog** and pressing a Pad will select any *enabled* user presets alongside the ARTURIA and DAWs modes as described above.

4.6.1. MIDI Setup in your DAW

When using KeyLab Essential with a DAW, it is important that you get the MIDI settings right.

In your DAW, probably under Preferences and Audio or MIDI setup, there should be a page that describe the MIDI inputs and outputs. After selecting KL Essential 49/61 mk3 and your MIDI controller, you'll find further options.
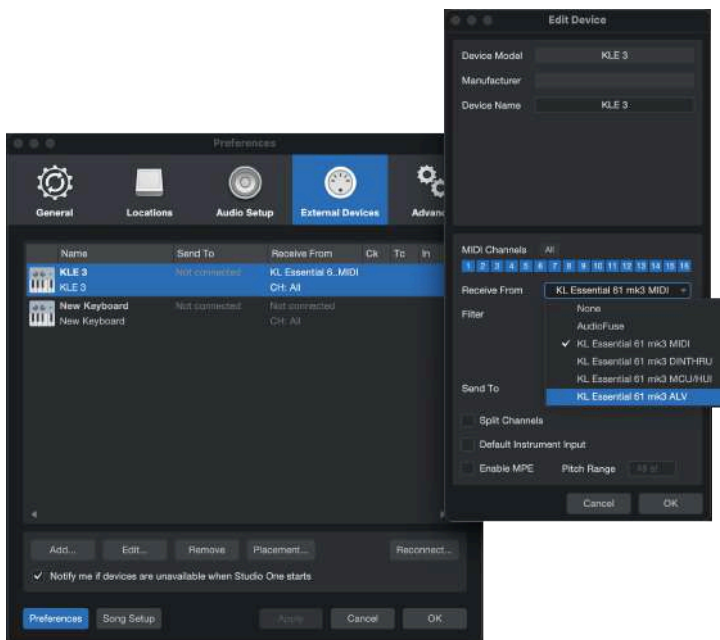
This is the MIDI device settings page in Studio One

- **KL Essential (49/61) mk3 MIDI:** Enables MIDI communication via the USB-C port on KeyLab Essential.
- **KL Essential (49/61) mk3 DINTHRU:** Passes outgoing MIDI information from the host software through KeyLab Essential's 5-pin MIDI out connector. This can be useful when you want to sequence and control hardware synths with your DAW using KeyLab Essential as a MIDI interface.
- **KL Essential (49/61) mk3 MCU/HUI:** Enables KeyLab Essential as a Mackie Control Universal surface via a dedicated port, to not interfere with other MIDI messages as notes or control changes.
- **KL Essential (49/61) mk3 ALV** Transmits screen messages from Analog Lab V to KeyLab Essential.

You will almost always want **KL Essential (49/61) mk3 MIDI** turned on. If using KeyLab Essential to control any of the custom supported DAWs [p.43], ensure **KL Essential (49/61) mk3 MCU/HUI** is *not* activated.

4.7. Prog

By pressing **Prog** repeatedly, you will cycle through KeyLab Essentials main modes.

- **Arturia:** This mode is used to control any instrument in your computer.
- **DAWs:** This mode enables the scripts written especially for these DAWs: Live, Logic Pro, Bitwig Studio, FL Studio, and Cubase.
- **User:** You can use up to 6 User Programs of presets, i.e. those that are enabled in MIDI Control Center.
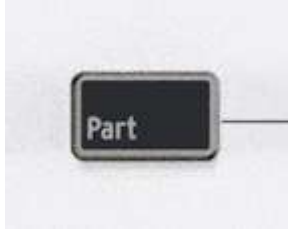
! Alternatively, you can hold **Prog** and select any mode by pressing the appropriate Pad.

! When controlling your DAW using the MCU/HUI protocol, KeyLab Essential may be in any Prog mode (Arturia, DAWs, or User 1-6).

4.8. Part

This section will describe the features found when pressing the **Part** button.

The Part feature can be used in both User/DAW mode and Arturia mode. However, this feature works differently in the first case and the second case.

In the first case, the purpose of this feature is to, for example, control different virtual instruments or hardware products at the same time.

In the second case, the Part feature allows you to control remotely multi presets from Analog Lab V.

Analog Lab V can, as many other virtual instruments, operate in *Single* and *Multi* mode. When using a Multi, you will often need greater control over the individual parts, and KeyLab Essential gives you lots of options here.

> **ℹ** To learn more about how to control parts in Analog Lab V, please refer to the Controlling Parts in Analog Lab V [p.39] section of this manual.

You exit Part mode by pressing the button below **On**.

Hitting the button below the Return symbol exits the Part section.

4.8.1. Setting Split Points

When first hitting the Part button, the Display will confirm that you're controlling Part 1. Immediately pressing Part again takes you to Part 2. If no Split Point or Multi is activated, the Display will invite you to create one or enter the menu.
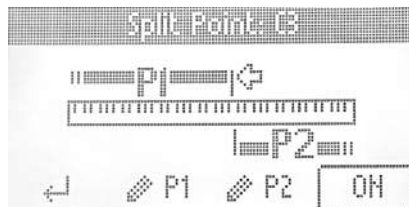
By long-pressing Part, you will enter edit mode for Part 1 or 2. You can select what part to edit by selecting one of the P1 and P2 buttons at the bottom of the screen.

On this page, you can also set the Split point. When you rotate the Main Encoder, you skip through the four edit points:

- Lower limit for Part 1.

- Upper limit for Part 1.

- Lower limit for Part 2.

- Upper limit for Part 2.

You can edit any of those points by rotating to the desired point, then clicking the Main Encoder and turning it to edit. Clicking again takes you back to select mode.

With this flexible layout, you can easily create overlaps or a very limited note range for any part. And of course, with both parts covering the same note range, two sounds will play in unison.

4.8.2. Editing Part 1 and 2

When in Multi or Split Point mode, you can edit Part 1 or 2 by pressing the button below P1 or P2. The heading on the screen will now read *Editing Part 1* (or 2).

By navigating this menu, you now have the option to change octave and MIDI channel for the parts. Very straightforward.

Hitting the button below the Return symbol takes you back to the Part menu, and a second press exits the Part section.

4.9. Hold Mode

The button marked **Hold** will hold the last note(s) played until a new note is played or until you disengage the Hold function.

You activate Hold by pressing its button. The button will light up and the display will say **Hold mode ON**. You turn off Hold by pressing the button again.
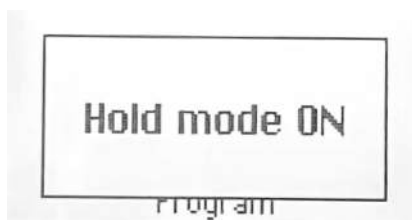
The Hold function differs from using a sustain pedal. After pressing a sustain pedal, every note you play will keep sustaining until you release the pedal. In Hold mode, only notes that are played simultaneously will be held. Example: Activate Hold mode and play C and G, then release the keys. Those two notes will now keep on sounding until you hit a new key or keys; C and G will stop playing and the newly added note(s) will be held.

> ! Hold can be activated in two ways – either by pressing the Hold button **before** playing the notes or **when** the keys are actually played (before they are released).

> ! When Hold is active, the Hold button shines brighter.

> ! Hold only works in conjunction with the keys, not the pads.

4.10. Chord Mode

KeyLab Essential includes a Chord Mode that memorizes chords you input and then allows you to play them from one key, transposing as it goes.

Chord information is transmitted as MIDI data over the USB-C port and/or 5-pin MIDI output, depending on which are selected in your host software's MIDI settings.

To turn chord mode on and off, press the Chord button. With Chord on, playing one note will play the last recorded chord.

> ! Chords can be scaled and can be fed into the Arpeggiator.

> ! The **Chord Play mode** (whether the chord is playing or not) and the **Chord Edit mode** (where you tweak the chord) are somewhat independent of each other, i.e. the Chord doesn't automatically play just because you enter Chord Edit mode. Also, quitting Chord Edit mode doesn't turn off the Chord function.

4.10.1. Playing Predefined Chords

After long-pressing and releasing the **Chord** button, you can select any of the predefined chords in KeyLab Essential. You will find them under Preset.

- Octave
- 5th
- Major Triad
- Minor Triad
- Sus 2
- Sus 4

- Major 7
- Minor 7
- Major 9
- Minor 9
- Major 11
- Minor 11

4.10.2. Creating a Chord

You **enter** Chord Edit mode by long-pressing the Chord button. Now the text in the Display says *Create Chord*.

You **leave** Chord Edit mode by pressing the leftmost contextual button (under the down-left pointing arrow).

Now, play the chord you want KeyLab Essential to memorize on the keyboard, either all at once or adding a note at a time. The display shows the following:
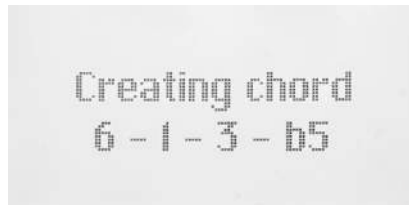
Then, release the Chord button. Chord mode is automatically enabled. Your chord is now memorized and will be retained if you leave Chord Mode and return, and even if KeyLab Essential is powered off. To overwrite the chord with a new one, simply repeat the process.

> ℹ ! If you want the lowest note in the chord to be the root note (this should be the most common preference), make sure to play the lowest note before the other notes (when creating a chord).

You exit Chord mode by pressing the Chord button again.

4.11. Scale

You **enter** Scale Edit mode by long-pressing the Scale button.

You **leave** Scale Edit mode by pressing the leftmost contextual button (under the down-left pointing arrow).
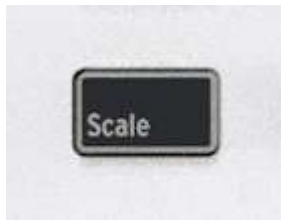
The Scale function helps you stay in the right key and tonality when playing. Scale works by simply redirecting those notes that don't belong to the scale selected. As a result, every note you play on the KeyLab Essential will "sound right".

You activate Scale mode by pressing the Scale button. Whatever scale and key was last selected, will now be activated.

By long-pressing Scale, you will be presented with the Scale page. Press the button below **Root** and use the large **Encoder Knob** to select the key you want to use. Press the fourth button, under **Type**, to choose the preferred type of scale.
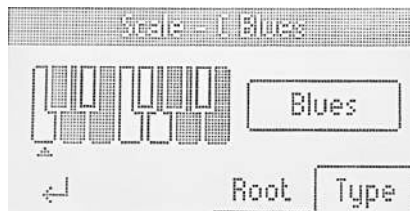
There are a number of scales to choose from:

- **Chromatic:** Standard scale used on every western keyboard instrument.
- **Major:** Major scale.
- **Minor**: Natural minor.
- **Dorian**: Dorian (or doric) mode.

- **Phrygian**: Phrygian mode.
- **Lydian**: Lydian mode.
- **Mixolydian**: Mixolydian mode.
- **Locrian**: Locrian mode.
- **Harmonic Minor**: Harmonic minor.
- **Blues:** Blues scale with only 6 notes.
- **Pentatonic Major:** 5 note pentatonic scale.
- **Pentatonic Minor:** 5 note pentatonic, also a simplified blues scale.
- **Japanese:** 5 note pentatonic scale.
- **Gypsy:** One of several Gypsy scales.
- **Arabic:** Arabic or double harmonic scale.
- **Freygish:** Freygish or Phrygian dominant scale.

The Scale display actually shows you what notes are included in the scale you have chosen. Please look at the small keyboard in the Display.

The white notes are included in the scale and the black ones are omitted. The root key is marked by an arrow.

To get back to standard keyboard mode (no Scale selected), press the Scale button.

> ! When Scale is active, the Scale button shines brighter.

> ! Scale only works in conjunction with the keys, not the pads.

> ! The **Scale Play mode** (whether the scale is active or not) and the **Scale Edit mode** (where you tweak the scale) are somewhat independent of each other, i.e. the Scale doesn't automatically become active just because you enter Scale Edit mode. Also, quitting Scale Edit mode doesn't turn off the Scale function.
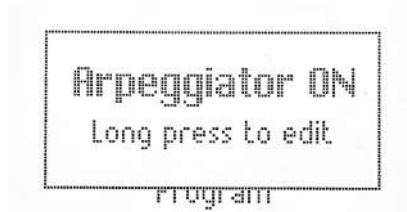
4.12. Arpeggiator

KeyLab Essential includes a fun and flexible Arpeggiator fashioned after those in classic synths, letting you craft rolling, percolating patterns out of held chords.

An arpeggiator is included in many synthesizer models. It takes chords played on the keyboard and converts them into arpeggios. An arpeggiator usually includes controls for Speed, Range (in octaves), Mode (if the pattern moves up, down, or up/down etc.), and Hold (continues playing the arpeggio after the keys have been released).

Arpeggiator information is transmitted as MIDI data over the USB-C port and/or 5-pin MIDI output, depending on which are selected in your host software's MIDI settings.

4.12.1. Activating and deactivating the Arpeggiator

To turn the arpeggiator on and off, press the **Arpeggio** button. The KeyLab Essential display will momentarily reflect its state:


! The Arpeggiator is triggered only by the keyboard, not the pads. Also, when the Arpeggiator is activated, the pads can still be used to trigger sounds.

4.12.2. Entering and leaving Arpeggio Edit

You **enter** the Arpeggio Edit pages by long-pressing the Arp button.

You **leave** Arpeggio Edit by pressing the leftmost contextual button (under the down-left pointing arrow).

When in Arpeggiator Edit, the display will always show this:
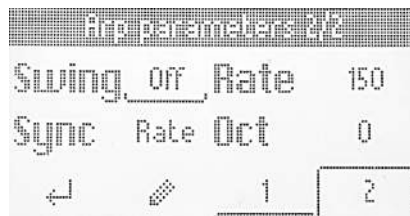
> ! The **Arpeggio Play** state (whether the arpeggiator is running or not) and the **Arpeggio Edit** status (where you tweak the arpeggiator's behavior) are somewhat independent of each other, i.e. the Arpeggiator doesn't automatically start just because you enter the Arpeggiator Edit pages. Also, quitting Arpeggio Edit doesn't turn off the Arpeggiator.

4.12.3. Editing the Arpeggiator

Please read the previous chapters about the two distinct Arpeggiator states – **Arpeggiator Play** and **Arpeggiator Edit** first. Once you've learned that part, we can start editing the way the Arpeggiator plays patterns.

So, long-press the **Arpeggiator** button to get into the Arpeggiator Edit page. Then, hit the Arpeggiator button to activate the Arpeggiator.

The display will now look like this:
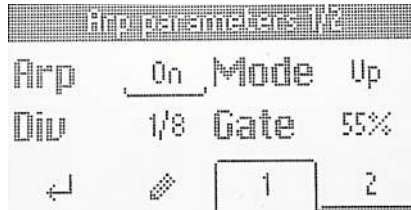
The Arpeggio Edit functions occupy two pages. You can change pages by hitting the **1** or **2** buttons below the screen. An alternative method is to simply turn the Encoder knob.
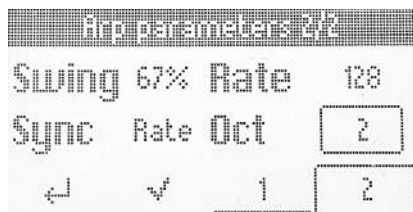
The Arpeggiator parameters are:

- **On/Off:** Engages or disengages the Arpeggiator.
- **Mode:** Chooses the order in which the Arpeggiator plays notes.
- **Division:** Adjusts the rhythmic subdivision relative to master tempo.
- **Gate:** Adjusts the gate time of notes, i.e. the length of each arpeggiated note.
- **Swing:** Adds a swing factor for a "behind the beat" feel.
- **Rate:** Sets the Arpeggiator rate in beats per minute when Sync is set to Internal.
- **Sync:** Selects KeyLab Essential's internal clock (Rate) or an external source such as connected software or hardware (Ext) as the source of master tempo.
- **Octaves:** Chooses the octave range of played notes, from zero to three octaves.

To select a parameter for editing, click the Encoder. Then turn the Encoder to edit. When done, click the Encoder again.

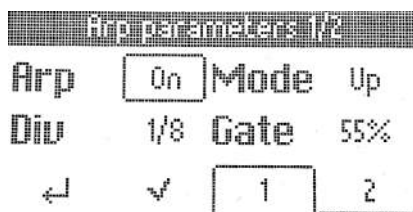When browsing the parameters, the values are underscored.
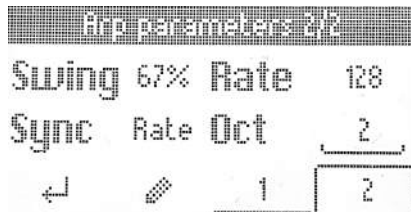
When a parameter is ready for editing, its value is surrounded by a square.
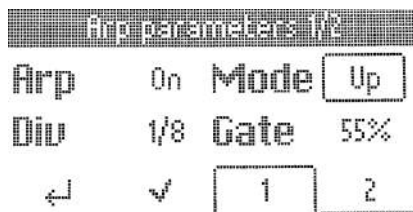
4.12.4. Arpeggiator Parameters

Now let's describe each arpeggiator parameter in more detail.

4.12.4.1. Arpeggiator On/Off

This parameter has two states: On or Off. Edit to turn Arpeggiator ON or OFF. A quicker method is to hit the Arpeggiator button.

4.12.4.2. Mode

Mode governs the play order of arpeggiated notes. The choices are:

- **Up:** Plays notes in ascending order only.
- **Down:** Plays notes in descending order only.
- **Inc:** Inclusive. Plays notes in ascending and descending order and repeats the highest and lowest notes in the pattern.
- **Exc:** Exclusive. Plays notes in ascending and descending order and does not repeat the highest and lowest notes in the pattern.
- **Rand:** Random. Plays all held notes in random order.
- **Order:** Plays notes in the order in which you pressed keys on the keyboard.
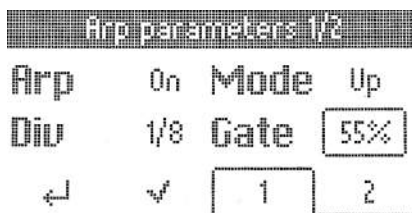
4.12.4.3. Division
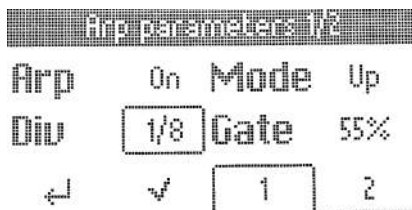
This setting controls the rhythmic subdivision of the Arpeggiator relative to master tempo – whether the tempo source is internal or external. Values include 1/4-, 1/8th-, 16th-, and 32nd-notes, both "straight" and with triplet feel options. "T" after the displayed value (e.g. "1/8T") indicates triplet feel.
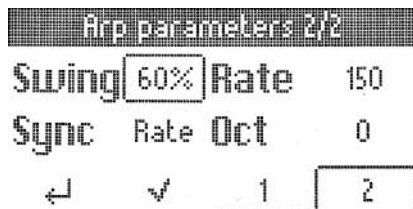
4.12.4.4. Gate

Gate time is the duration window during which each note is allowed to "speak," and it's the same from note to note. Lower gate times result in a more clipped or staccato sound, while longer gate times give the full envelope of the notes more of a chance to play out.

4.12.4.5. Swing

Swing is a "behind the beat" feeling instead of a perfectly even rhythmic pulse.

With 1/8 chosen as a division and Swing set to Off (which is actually 50%), all eighth notes are played evenly. By increasing the Swing factor, every second note in an eighth note group will play later. At 67%, you get a true (exact) swing feel. Values in the 55–64 range give a slightly jerky feel that can be magic in some cases.

This behaviour of course applies to all divisions – 1/8, 1/16, and 1/32.

4.12.4.6. Rate
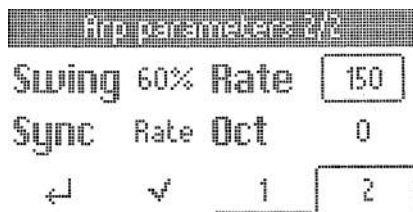
This parameter adjusts the rate of the Arpeggiator in beats per minute, but only when the Sync parameter is set to Internal. If you turn this knob while external Sync is set, the message "External Sync selected" is displayed.

> ♪ You can also set the rate using the Tap Tempo [p.31] button.

4.12.4.7. Sync

There are two options here: Internal and External.

- **Rate:** Arpeggiator speed is determined by KeyLab Essential's internal clock and Rate setting (see above).
- **Ext:** Arpeggiator Rate is determined by the tempo set in host software such as a DAW. If there is no clock detected by the Arpeggiator, playing the KeyLab Essential keyboard will trigger a popup saying "Arp Sync: Ext - No clock detected". Also, you'll have to make sure a clock is sent to the USB port of KeyLab Essential and don't forget to press play in your DAW.

♪ Which one to use? If you're playing Analog Lab in as a stand-alone instrument, using KeyLab Essential's internal tempo lets you quickly tweak the rate across everything you're doing. Likewise if you're controlling a hardware synth module from the 5-pin MIDI port. If Analog Lab or another instrument is a plug-in within a DAW session, then of course you'll want to set KeyLab Essential to External and let your DAW direct tempo.

♪ A DAW can only control the Arpeggiator Rate when the DAW is playing; KeyLab Essential can't sync to a DAW that is stopped.

4.12.4.8. Octave
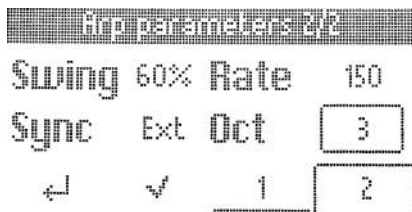
The Arpeggiator can play notes in a range of zero to three octaves up. At zero, it plays only the actual notes as held on the keyboard, at 1 it adds one octave up and so on.

4.13. Tap Tempo

Tap Tempo lets you set KeyLab Essential's internal clock for the Arpeggiator by tapping in a beat. If performing with bandmates that include a live drummer — or drum machine that's not MIDI'ed or synced to anything — this lets you sync up KeyLab Essential by ear.
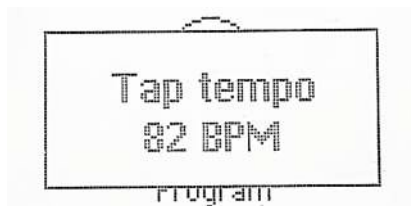
♪ The more times you tap, the better the clock will match whatever beat is in the air.

4.13.1. The Arpeggiator, Chord Mode, Scale Mode, and Hold Mode

Chord Mode interacts with the Arpeggiator. If both are turned on, the Arpeggiator plays the notes in the memorized chord, applying all of the other settings such as Mode, Division, etc. Chords can also be scaled and fed into the Arpeggiator.

Scale interacts in a similar way, as the arpeggiated notes based on the chord will be quantized to the selected scale.
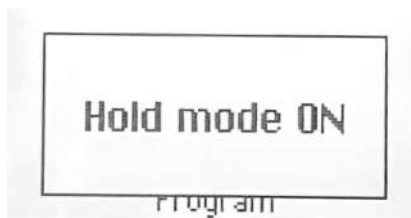
Now, engage **Hold**, and you can change the musical key of the Arpeggiator by striking single notes, setting your hands free to tweak other things in your session!

! Remember that Hold can be activated by its own for long evolving pads, for instance.

4.14. Vegas Mode

If left idle, KeyLab Essential will go into what we call "Vegas Mode," which is akin to a computer screensaver. The Display will go dark and the pads will cycle through a rainbow of colors.

Simply play a key or touch any control on KeyLab Essential to return to normal operation.

> ℹ ! In the MIDI Control Center app you can set the time before Vegas Mode kicks in or disable Vegas mode and let KeyLab Essential go into sleep mode instead (with screen and LEDs off). By default, Vegas Mode starts after 5 minutes.
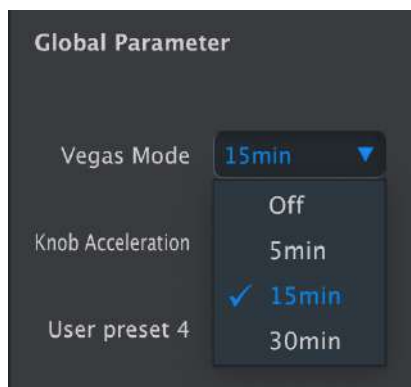
4.15. Factory Reset

> ℹ️ ! This procedure will erase all user presets and device settings and restore them to factory defaults. Use the MIDI Control Center software to back up your changes first.

To reset the KeyLab Essential to its original factory settings:

1. Unplug the USB-C cable from the back of the keyboard.

2. Hold down the contextual buttons **1 and 2** below the screen.

3. Plug the USB-C cable back in and continue to hold the buttons until the screen says **Firmware / Exit / Reset**.

4. Release buttons 1 and 2. Press Reset to reset KeyLab Essential to its original factory settings or press Exit to exit to normal operation.

5. KEYLAB ESSENTIAL AND ANALOG LAB V

This chapter will focus mostly on how KeyLab Essential interacts with Analog Lab V – a browser of preset sounds from keyboard and synth instruments that shaped music history.

Armed with Keylab Essential and Analog Lab V, you'll be able to cover every possible musical situation.

5.1. Important Note – It's All Malleable

Everything described here covers a default operating mode designed to get you up and running quickly with KeyLab Essential and your Analog Lab V. The parameters assigned to a Macro surely vary from Preset to Preset, so what you hear when you turn knobs 1-8 will be different.

You can also treat KeyLab Essential as a generic MIDI controller, overriding the default control assignments by directly MIDI "Learn"-ing new ones from within any Arturia instrument – select the MIDI settings tab, click learn, choose a parameter onscreen, and wiggle a control on KeyLab Essential.

> ℹ️ ! KeyLab Essential works like any other MIDI controller with non-Arturia software and plug-ins, but with the advantage of MIDI Control Center letting you determine exactly what messages and values each of its controls sends.

5.2. Audio and MIDI Setup

The first thing to do after launching Analog Lab V *in stand-alone mode*, is to make sure the software is set to output audio correctly and that it will receive MIDI from the KeyLab Essential keyboard.
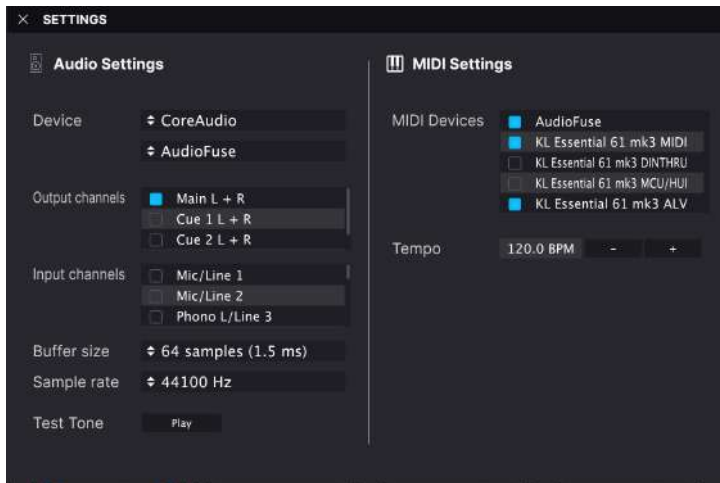
If running Analog Lab V in stand-alone mode, open its **Audio MIDI Settings** from the main menu (the 3 horizontal lines in the upper left corner). If using Analog Lab V as a plug-in inside your DAW, open the MIDI preferences in your DAW and select KeyLab Essential (49/61) mk3 MIDI in the input list, then create an Analog Lab V track and arm it: You will now be able to play and control Analog Lab V inside your favorite DAW.

The above screen shows the settings in Analog Lab V stand-alone. Configure your audio device as desired. The important thing here are the three MIDI ports/devices that KeyLab Essential shows to Analog Lab V or any DAW:

- **KL Essential (49/61) mk3 MIDI:** Enables MIDI communication via the USB-C port on KeyLab Essential.
- **KL Essential (49/61) mk3 DINTHRU:** Passes outgoing MIDI information from the host software through KeyLab Essential's 5-pin MIDI out connector. This can be useful when you want to sequence and control hardware synths with your DAW using KeyLab Essential as a MIDI interface.
- **KL Essential (49/61) mk3 MCU/HUI:** Enables KeyLab Essential as a Mackie Control Universal surface via a dedicated port, to not interfere with other MIDI messages as notes or control changes.
- **KL Essential (49/61) mk3 ALV** Transmits screen messages from Analog Lab V to KeyLab Essential.

You will almost always want **KL Essential (49/61) mk3 MIDI** turned on. If using KeyLab Essential to control any of the custom supported DAWs [p.43] described in the next chapter, ensure **KL Essential (49/61) mk3 MCU/HUI** is *not* activated.

5.2.1. Analog Lab V MIDI Settings

Click the gear icon at the upper right corner of Analog Lab V to open the Settings section. Click on the MIDI tab and select *KL Essential* from the **MIDI Controller** drop-down menu, if it has not already beed automatically detected.

This will select a template of custom controller mappings. When **Controls** is engaged in the lower toolbar of Analog Lab V, a duplicate of KeyLab Essential's controls are displayed at the bottom of the screen, like so:

Now – and this is important – make sure the ARTURIA program mode is selected by clicking the **Prog** button in KeyLab Essential. You may have to click a few times. You can also hold the **Prog** button and press Pad 1.

5.3. Browsing Presets

One of the first things KeyLab Essential can do in Analog Lab V is browse and select sound Presets using the Main Encoder.

Turn the Main Encoder knob to scroll through the Presets shown in the central search results area of Analog Lab V's browser. Press the knob to load a Preset. The display in KeyLab Essential will show the Preset name and its Type:

> ℹ️ ! A preset that has been selected but not loaded yet, shows a blinking name in the Display.

Long-pressing the knob will then add the Preset to your Liked Presets in Analog Lab V, or remove it if it was previously Liked. Pressing the button below the heart symbol has the same effect.

A heart icon appears in Analog Lab V to indicate a liked preset.
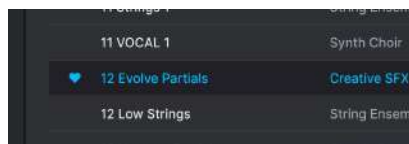
5.3.1. Browsing Within Types

You can also drill partway down into the "tree structure" of Analog Lab V's Preset hierarchy, specifically the categories of Presets known as Types.

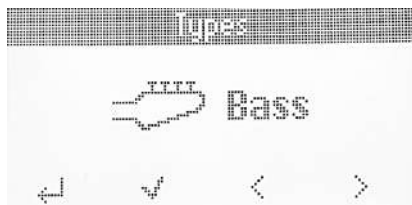Turn the **main encoder** (the one below the display) to browse through the different instrument Types. Press the encoder to select that Type. You can now turn the encoder to scroll through subtypes only within the chosen Type.

To go back up one level in the hierarchy when browsing Presets within a Type (i.e. to the level where you're selecting Types), press the button below Types

5.3.1.1. Navigating Types

- To browse between Types: Turn the Main encoder knob.
- To select a Type: Press encoder.
- To display all Presets within a Type: Click on the button below the Tick icon. All Presets within that Type are now listed on your computer screen.
- To access subtypes, click on the main encoder.
- If you are in a subtypes list, clicking on the main encoder will enter the subtypes preset list.

5.4. Knobs and Faders

With KeyLab Essential in ARTURIA mode (press **Prog** until you get there) and *KeyLab Essential* selected as the MIDI controller in the MIDI settings [p.35], the knobs and faders are dedicated to parameters in a way intended to make your live performances and studio tweaking super smooth.

The Knobs and Faders are assigned to the Arturia instrument's **Macros**. Since you can assign multiple parameters to a Macro, you can get a lot of mileage out of twisting a single knob on KeyLab Essential. This is even more true if you own full versions of V Collection instruments, which you can then open inside of Analog Lab V to map their internal parameters to Macros.

> ℹ️ ! Please make sure to select **KL Essential 3** as your MIDI Controller under the cogwheel in Analog Lab V's upper right corner. You can edit exactly what every Knob and Fader does in the MIDI Control Center app.

5.5. Pads
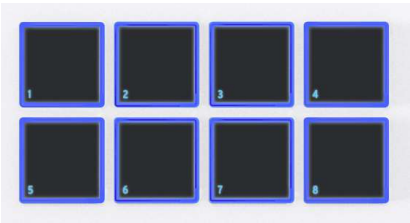
The Pads in KeyLab Essential mk3 send MIDI notes as outlined in the previous chapter. The default notes are:

Pad Bank	1	2	3	4	5	6	7	8
A	4O (E1)	41 (F1)	42 (F#1)	43 (G1)	36 (C1)	37 (C#1)	38 (D1)	39 (D#1)
B	48 (C2)	48 (C#2)	5O (D2)	51 (D#2)	44 (G#1)	45 (A1)	46 (A#1)	47 (B1)

5.6. Controlling Parts in Analog Lab V

When KeyLab Essential is in **Arturia mode** (press the Prog button until you get there), the Part feature allows you to remotely control multi presets in Analog Lab V.

To use this feature, you can either load a Multi preset (turn the Main Encoder and click to select) or add a part to a single preset.

5.6.1. Adding a Part in Analog Lab V

To add a part, long-press the Part button while being on a Single preset. By doing so, you will enter the Add Part menu.
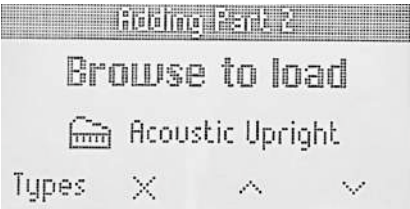
This menu has four options.

- **Types:** Takes you to the Types menu

- **Validate part** or **Remove part:** Validates or Removes a part (if no preset is loaded)

- **Browse Up:** Scrolls backwards in the preset list and loads the preset

- **Browse Down:** Scrolls forward in the preset list and loads the preset

> To select a preset, and to be able to listen to it, click on the main encoder.

5.6.2. Editing an Existing Multi Preset

You can also edit a Multi preset that has been loaded in Analog Lab V. To do so, long-press the **Part** button, then release it. This takes you to the Multi Part page.
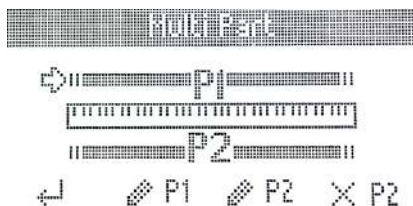
Here you can create Splits by adjusting the split points for part 1 and 2.

Also on this page there a 4 dedicated functions.

- **Back:** Takes you back to the previous page

- **Edit Part 1:** Lets you tweak further parameters in part 1

- **Edit Part 2:** Lets you tweak further parameters in part 2

- **Remove Part 2:** Removes part 2

5.6.3. Editing in the Part Menu

By pressing the button below the **Edit Part 1** or **Edit Part 2** symbol, you can edit a further set of parameters.

- **Back:** Takes you back to the previous menu

- **Replace Part 1** or **Part 2:** Gives you access to the Replace Part menu

- **Octave:** Changes the octave played by the part

- **MIDI Channel:** Set the MIDI channel of the part that Analog Lab V listens to

5.6.3.1. Replace part menu
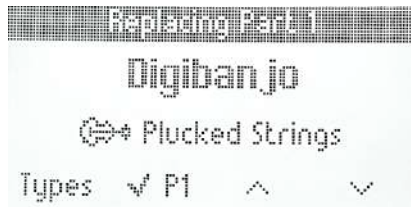
This menu allows you to load a preset into a specific part. You have four options:
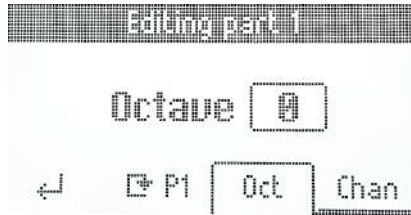
- **Types:** Access to the types menu

- **Validate part** or **Remove part:** Lets you validate or remove a part (if no preset is loaded)

- **Browse Up:** Scrolls backwards in the preset list and loads the preset

- **Browse Down:** Scrolls forward in the preset list and loads the preset

> ℹ **!** To load a preset, you can also click on the Main Encoder. Loading the preset allows you to listen to the preset.

5.6.4. Controlling Parts

Controlling a part allows you to control the parameters of this specific part.

To select a part to control, short press the part button. It will switch between part 1 and part 2.

> **i** Clicking 3 times will get you back to the "Master" Part.

On the display, you will have four options:

- **Types:** Takes you to the Types list
- **Replace Part:** Allows you to replace part 1 or 2
- **Browse Up:** Scrolls backwards in the preset list and loads the preset
- **Browse Down:** Scrolls forward in the preset list and loads the preset

6. DAW CONTROL

KeyLab Essential can control all popular DAW (digital audio workstation) software programs. Some are directly integrated with KeyLab Essential and others utilize the widely used Mackie Control Universal (MCU) or Human User Interface (HUI) protocols.

Functionality varies depending upon the software, but things KeyLab Essential can do include browsing, selecting, and arming tracks; scrolling through the timeline; adjusting track volumes and pans; adjusting select parameters inside plug-ins; and controlling the transport using the DAW Transport Command Center.

6.1. Custom Controlled DAWs

This section provides some general information on how you can remotely control the DAWs that enjoy advanced integration with KeyLab Essential.

This is what KeyLab Essential looks like in Cubase with advanced integration in place.

For more details about these DAWs, please refer to our dedicated User Guides – one for each DAW.

> ℹ You can download them from the KeyLab Essential's Resources page.

To begin using KeyLab Essential in DAW Control mode, press the **Prog** button so the display reads "**DAWs Program**". KeyLab Essential is now ready to remotely control these fully integrated DAWs:

- Ableton Live
- Bitwig Studio
- Apple Logic Pro
- Image-Line FL Studio
- Steinberg Cubase

Please prepare your DAW if you're using any of the five mentioned above. The DAW scripts for KeyLab Essential may have to be installed manually. Once you've made sure that you're fully up to date, it'll be smooth sailing and your DAW will now recognize KeyLab Essential automatically.

> ℹ ! Clarification: KeyLab Essential can remotely control Loop On/Off, Stop, Play, and Record in any DAW. Full integration will be added to more DAWs in the future. In the meantime, the user can use create similar functionality in MIDI Control Center.

When set to **DAWs Program**, KeyLab Essential will automatically recognize and connect to your DAW. If your DAW isn't recognized, please check your DAW's MIDI settings and make sure your DAW is up to date.

If KeyLab Essential still doesn't recognize the DAW, please refer to these manuals for full info on installation and trouble-shooting.

> ℹ️ ! Of course you can use all other KeyLab Essential features – like Hold, Chord, Arpeggiator, Transpose etc. – in any DAW.

6.1.1. Transport Control

With KeyLab Essential in DAW mode, you can use the 6 Transport buttons to the left of the screen to control your DAW transport plus Metronome and Tap Tempo. This works similarly across all supported DAWs.

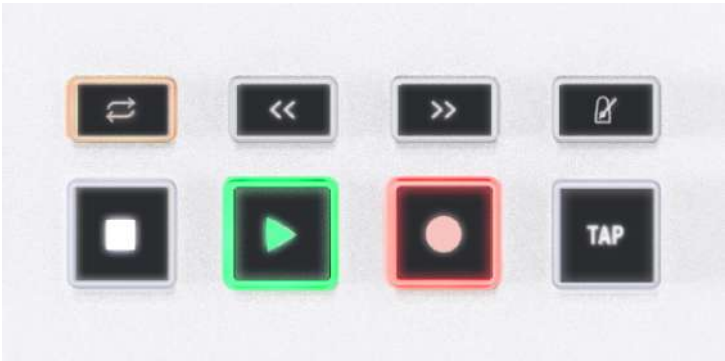| Pad	Function	Display
1	Loop Mode On/Off	Loop Mode ON/OFF
2	Rewind	Rewinds your DAW
3	Fast Forward	Fast forwards your DAW
4	Metronome	Turns DAW metronome ON/OFF
5	Stop	PLAY icon in the lower left corner
6	Play/Pause	PLAY icon in the lower left corner disappears
7	Record	Record icon appears in the upper left corner
8	Tap Tempo	*Tap Tempo XX BPM* when tapping this pad

Buttons are lit more brightly when their functions are engaged, as shown by the example of the play button in the above photo.

In addition to the above functions, there are numerous DAW-specific functionality in the 5 DAWs currently supported. For full info, please refer to these manuals.

6.2. DAW Control with Mackie Control Universal

DAWs for which we do not have custom scripts as of KeyLab Essential's release, may still be controlled using the Mackie Control Universal (MCU) or Human User Interface (HUI) protocol.

By design, KeyLab Essential defaults to not outputting MCU or HUI in order to avoid certain issues. You need to activate it in the MCC if you want to use these protocols.

Setting up MCU varies from one DAW to another, so consult your DAW's documentation for details. In general, however, you will take these steps:

- Enable the MIDI input port *KeyLab Essential (49/61) mk3 MCU/HUIM* in your DAW's MIDI preferences.

- Add and set up Mackie Control in your DAW's "Control Surfaces" settings if it has them.

7. DECLARATION OF CONFORMITY

7.1. FCC

WARNING: DO NOT MODIFY THE UNIT!

Any modifications or other changes to this unit not approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Responsible Party in USA: Zedra, 185 Alewife Brook Parkway, #210, Cambridge, MA 02138, United States T: +1 857 285 5953

Trade Name: ARTURIA, Model Number: KeyLab Essential mk3

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: • Reorient or relocate the receiving antenna. • Increase the separation between the equipment and receiver. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Consult the dealer or an experienced radio/TV technician for help.

7.2. CANADA

This class B digital apparatus meets complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

7.3. CE

This device has been tested and found to comply with the limits of the European Council Directive on the approximation of the laws of the member states relating to Electromagnetic Compatibility according to 2014/30/EU, and Low Voltage Directive 2014/35/EU.

7.4. ROHS

This device has been produced with lead free solder and fulfills the requirements of the ROHS directive 2011/65/EU.

7.5. WEEE

This symbol indicates that the electrical and electronic equipment should not be disposed of as general household waste at its end-of-life. Instead, the products should be handed over to the applicable collection points for the recycling of electrical and electronic equipment for proper treatment, recovery, and recycling in accordance with your national legislation and the Directive 2012/19/EU (WEEE – Directive on Waste Electrical and Electronic Equipment). For more information about collection points and recycling of these products, please contact your local municipal office, your household waste disposal service, or the shop where you purchased the product.

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