

ZoneMatrix

Hi,

My name is Hagai Davidoff and I'm a Composer and Music Tech Educator from Israel. In recent years I've started programming my own software since I needed technical solutions that weren't available. ZoneMatrix represents such a solution, and I'm highly excited to share it with you!

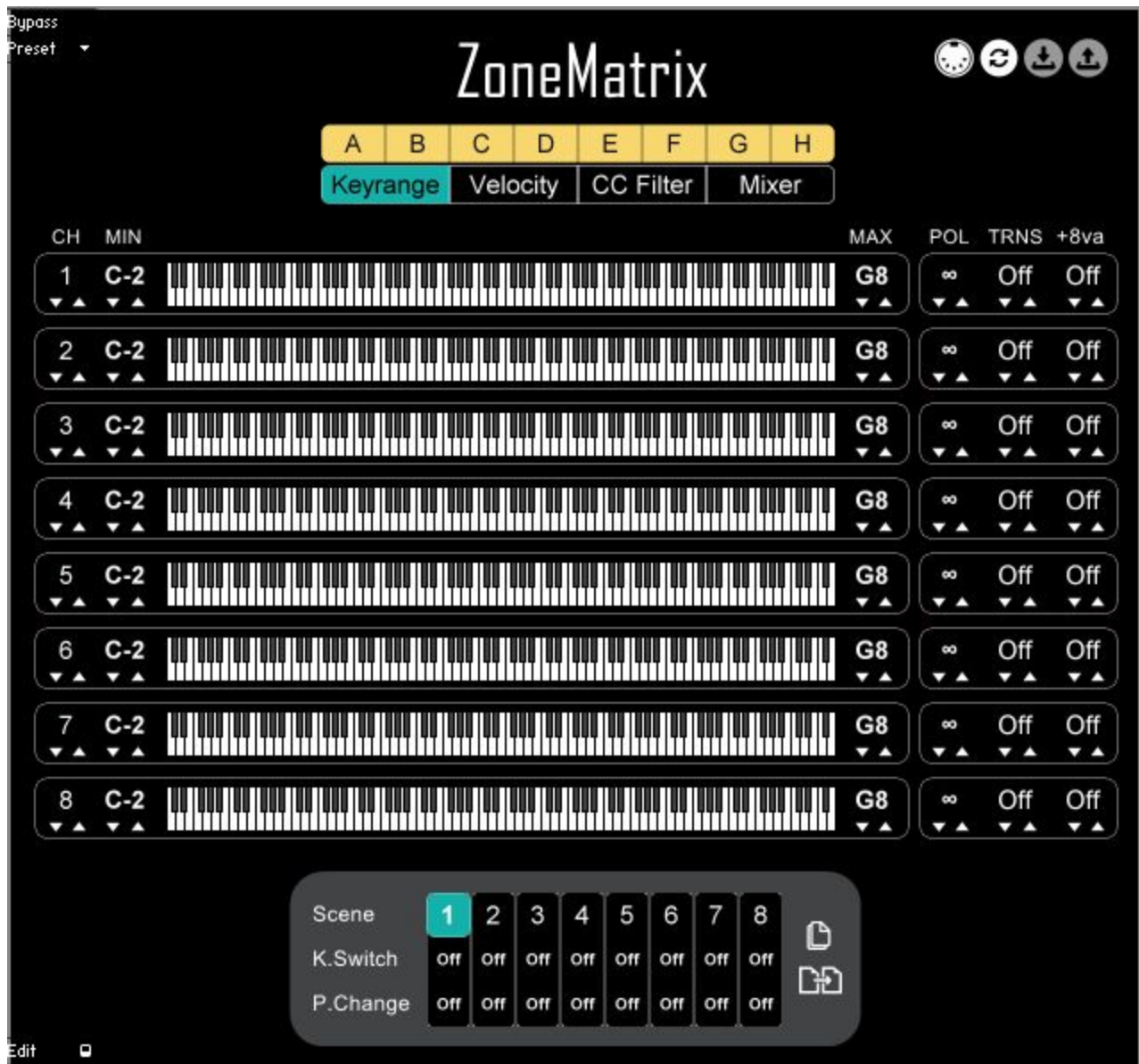
Thanks for buying ZoneMatrix! I'm sure you'll find it extremely valuable in your musical journey, be it on stage or in the studio.

- Follow HD Instrument on [Facebook](#).
- For support issues and general communication please contact me at hdinstr@gmail.com.
- For additional tutorials and walkthroughs, visit and subscribe to HD Instruments [YouTube Channel](#).

Sincerely,
Hagai Davidoff
HD Instruments CEO

A handwritten signature in blue ink, consisting of stylized initials 'HD' followed by a horizontal line with a small vertical tick at the end.

Meet ZoneMatrix!



ZoneMatrix is a powerful performance tool for Kontakt that enables you to play multiple sample libraries simultaneously by organizing them into powerful performance multies. Create, Control and Play Kontakt like never before! Build multis on the fly and perform anything from trios, quartets to fully blown orchestras - live!

Main highlights

- Trigger multiple instruments simultaneously across different key and velocity ranges.
- Transpose instruments on the fly to create chords/intervals/textures.
- Use the Octaver to play massive chords and melodies.

- Set fixed velocity values or shift velocity around.
- Zone dependent Polyphony Limiter.
- Fine tune your MIDI control using the built in CC Filter.
- Mix your multi with the built in MIDI learnable mixer.
- Use 8 different independent, key switched scenes for the ultimate performance!
- Extensive MIDI Learn functionality and Hotkeys for ultimate workflow.
- ZoneMatrix presets for swift recall.

ZoneMatrix offers a new dimension of creativity for Kontakt users worldwide!

Quick Introduction

- ZoneMatrix contains eight independent **Zones**. A Zone correlates to a kontakt instrument/s. Click a Zone Button to switch it On/Off.
- The Incoming MIDI data is routed to all active Zones. Each Zone can shift/remap/multiply the incoming MIDI data in a variety of useful and creative ways.
- The modified MIDI data is sent to Kontakt instrument/s and determines how/what/when they'll play.
- There are four main pages available in the Upper Zone. Each represents a different MIDI aspect.
 - ❖ The **Keyrange** page is where you set your keyrange and note values assignments.
 - ❖ The **Velocity** page is where you set your velocity assignments.
 - ❖ The **CC Filter** page is where you can filter out MIDI CC's.
 - ❖ The **Mixer** page is where you mix your multi.
- All the adjustments and settings you make to the pages and zones are saved within a **Scene**. There are eight scenes available in the Lower Zone:



Each Scene is fully independable, e.g it could hold different MIDI channels/keyranges/velocity and CC assignments. Scenes could be copy-pasted to one another, reset back to default, and Key Switched/program changed on the fly for the ultimate performance experience.

Installation

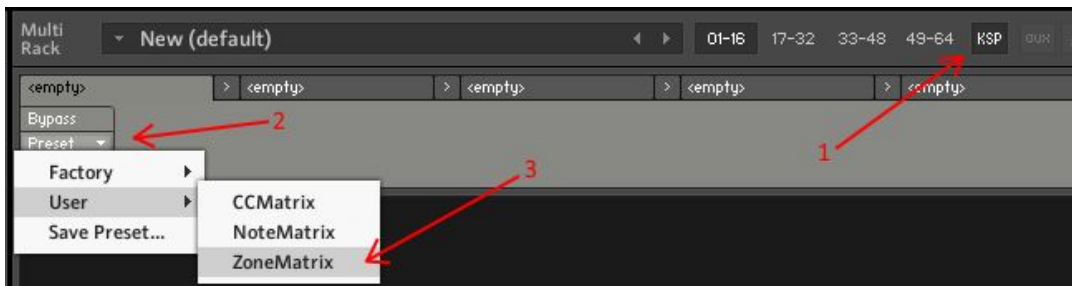
Once the download is completed, unzip “ZoneMatrix.zip” file. The file structure should look like this:



	PC	Mac
1	Drag the “ZoneMatrix.nkp” file to: C:\Users\<username>\Documents\Native Instruments\Kontakt *\presets\Multiscripts	Drag the “ZoneMatrix.nkp” file to: \Users\<username>\Documents\Native Instruments\Kontakt *\presets\Multiscripts
2	Drag the “ZoneMatrix” folder to: C:\Users\<username>\Documents\Native Instruments\Kontakt *\pictures	Drag the “ZoneMatrix” folder to: \Users\<username>\Documents\Native Instruments\Kontakt *\pictures

- If a “pictures” folder doesn’t exist, **create one**.
- If Kontakt was open during any of the previous stages, **restart it**.
- If you use several versions of Kontakt in tandem, repeat the installation process for each installed version.

Once installed, open Kontakt and load ZoneMatrix:

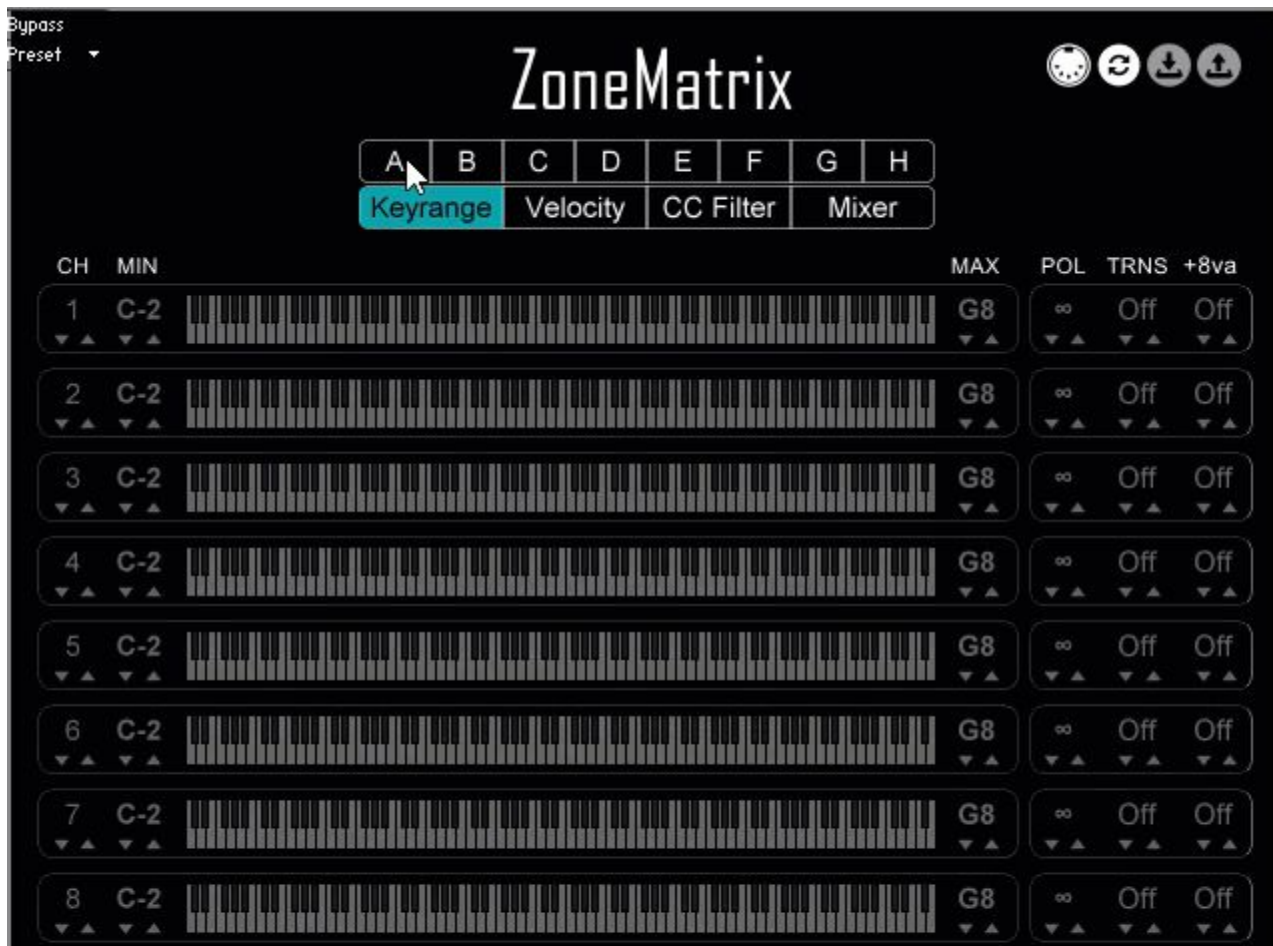


It’s highly recommended to read the entire manual. While NoteMatrix is simple to use, it holds great power and hidden features **you want to know about!**

Zone Buttons



ZoneMatrix contains eight independent **Zones**. A Zone correlates to a kontakt instrument assigned to the same [MIDI Channel](#).



- Click on a Zone button to turn it On/Off.
- **Ctrl/Cmd+Click** on a Zone button = Reset all Zone's assignments.
- **Shift+Click** on a Zone button = Solo Zone (Click any Zone to un-solo).
- **Alt+Shift+Click** on a Zone button = Activate/Deactivate all Zones.

Keyrange Page



Push the “Keyrange” button in the Upper Zone to open the Velocity Page (This is the default page):

- **Ctrl/Cmd+Click** the Keyrange button = Resets all Zone’s Keyrange values to default.

On the “Keyrange” Page you can:

- Map instruments to specific key ranges.
- Limit instrument’s polyphony.
- Transpose instruments (± 64 semitones)
- Multiply the instrument’s presence by adding up to 3 additional octaves.



1. Channel Selector

Sets the Zone’s MIDI channel.

Dial the channel that corresponds to the desired Kontakt instrument.

- Click & Drag the channel number up/down or use the arrow buttons to set a value (0-16).
- **Ctrl/Cmd+Click** = Reset to default value (Zone A=1, Zone B=2 etc...).

2. Min Keyrange

Notes below this value will be filtered out from triggering the associated instrument.

- Click & Drag up/down or use the arrow buttons to set a value (C-2-F#8).
- **Shift+Click** the up/down arrow keys = Transpose octave up/down.

- **Alt+Click** = MIDI learn (red). Alt + Click again to abort learn:

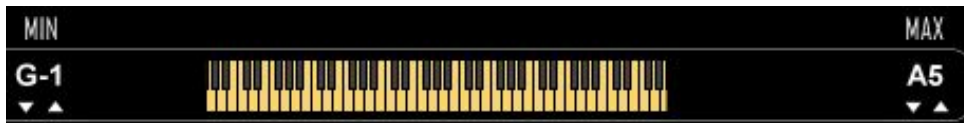


Once activated, play the desired note on your MIDI hardware/Kontakt's keyboard to grab it. If you play a value that is higher than the Max Keyrange value, the Min and Max values will flip. You can MIDI learn multiple Zones at the same time.

- **Ctrl/Cmd+Click** = Reset to default value (C-2).

3. Keyboard Display

Displays the current range. Notes outside this range will be filtered out:



- **Alt+Click** = MIDI learn (red). Alt + Click again to abort learn:



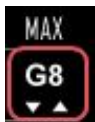
Once activated, play two notes on your MIDI hardware/Kontakt's keyboard. The lower value will be grabbed into the Min Keyrange slot, and the higher value into the Max Keyrange slot (you can play them in any order). You can MIDI learn multiple Zones at the same time.

- **Ctrl/Cmd+Click** = Reset all Keyrange values to default (Channel, Min Keyrange, Max Keyrange, Polyphony, Transpose and Octaver).

4. Max Keyrange

Notes above this value will be filtered out from triggering the associated instrument.

- Click & Drag up/down or use the arrow buttons to set a note value (G8-C#-2).
- **Shift+Click** on the up/down arrow keys = Transpose octave up/down.
- **Alt+Click** = Activates MIDI learn mode (red). Alt + Click again to abort:



Once activated, play the desired note on your MIDI hardware/Kontakt's keyboard to grab it. If you play a value that is lower than the Min Keyrange value, the Max and Min values will flip. You can MIDI learn multiple Zones at the same time.

- **Ctrl/Cmd+Click** = Reset to default value (G8).

5. Polyphony

Limits the number of voices allowed to be played simultaneously. When this value is exceeded, the oldest note will be killed.

- Click & Drag up/down or use the arrow buttons to set a value (∞ -127).
- **Ctrl/Cmd+Click** = Reset to default value (∞).

6. Transpose Pitch

Transposes the output pitch.

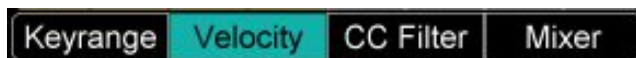
- Click & Drag up/down or use the arrow buttons to set a value (± 64 semitones).
- **Shift+Click** on the up/down arrow keys = Transpose by octaves up/down.
- **Ctrl/Cmd+Click** = Reset to default value (Off).

7. Octaver

Adds up to 3 additional octaves **above** the played note. Use it to thicken the sound.

- Click & Drag up/down or use the arrow buttons to set a value (Off-3).
- **Ctrl/Cmd+Click** = Reset to default value (Off).

Velocity Page



Push the “Velocity” button in the Upper Zone to open the Velocity Page:

- **Ctrl/Cmd+Click** on the Velocity button = Resets all Zone’s velocity values to default.

On the “Velocity” Page you can:

- Trigger instruments by specific velocities.
- Shift the instrument’s velocity up/down by a fixed value (± 127).
- Set the output velocity to a fixed value.



1.Min Velocity

Velocities below this value will be filtered out from triggering the associated instrument.

- Click & Drag up/down or use the arrow buttons to set a value (0 - 127).
- **Shift+Click** on the up/down arrow keys = Jump 10 up/down.
- **Alt+Click** = Activates MIDI learn (red). Alt + Click again to abort learn:



Once activated, hit the desired velocity on your MIDI hardware/Kontakt's keyboard to grab it. If you play a value that is higher than the Max Velocity value, the Min and Max values will flip. You can MIDI learn multiple Zones at the same time.

- **Ctrl/Cmd+Click** = Reset to default value (0).

2. Velocity Display

Displays of the current velocity range. Notes outside this range will be filtered out:



- **Alt+Click** = Activates MIDI learn mode (red). Alt + Click again to abort:



Once activated, play two notes on your MIDI hardware/Kontakt's keyboard. The lower value will be grabbed into the Min Velocity slot, and the higher value into the Max Velocity slot (you can play them in any order). You can MIDI learn multiple Zones at the same time.

- **Ctrl/Cmd+Click** = Reset all Velocity values to default (Min Velocity, Max Velocity, Shift Velocity & Fixed Velocity).

3. Max Velocity

Velocities above this value will be filtered out from triggering the associated instrument.

- Click & Drag up/down or use the arrow buttons to set a value (0 - 127).
- **Shift+Click** on the up/down arrow keys = Jump 10 up/down.
- **Alt+Click** = Activates MIDI learn (red). Alt + Click again to abort learn:



Once activated, play the desired velocity on your MIDI hardware/Kontakt's keyboard to grab it. If you play a value that is lower than the Min Velocity value, the Max and Min values will flip. You can MIDI learn multiple zones at the same time.

- **Ctrl/Cmd+Click** = Reset to default value (127).

4. Shift Velocity

Shifts the velocity values for all of the Zone's output notes.

- Click & Drag up/down or use the arrow buttons to set a value (± 127).

- **Shift+Click** on the up/down arrow keys = Increase/Decrease by 10 up/down.
- **Ctrl/Cmd+Click** = Reset to default value (Off).

5.Fixed Velocity

Sets a fixed velocity value for all of the Zone's output notes

- Click & Drag up/down or use the arrow buttons to set a value (0-127).
- **Shift+Click** on the up/down arrow keys = Increase/Decrease by 10 up/down.
- **Ctrl/Cmd+Click** = Reset to default value (Off).
- Setting a Fixed Velocity value will automatically reset the Shift Velocity value to "Off".

CC Filter Page



Push the “CC’s” button in the Upper Zone to open the CC Filter Page:

- **Ctrl/Cmd+Click** the CC Filter button = Reset all Zone’s CC Filter values to default.

You can exclude up to six common + two user definable CC’s from reaching the instrument:



- **MW** - CC1
- **PB** - Pitchbend
- **Sus** - CC64
- **AT** - Aftertouch
- **FSw** - CC65-CC69
- **FCtrl** - CC4
- **User** - Assignable CC. Click & Drag up/down or use the arrow buttons to set a value (Off - 127).
- **Alt+Shift+Click** Any of the common CC buttons = Activates all Zone’s common CC’s filter buttons.
- **Ctrl/Cmd+Click** Any of the common CC buttons = Deactivates all Zone’s common CC’s filter buttons.
- **Ctrl/Cmd+Click** on a user definable CC will reset it back to the default value (User = Off).

Mixer Page

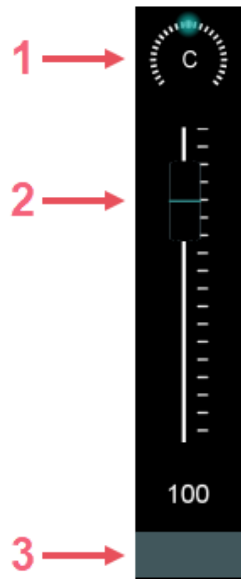


Push the “Mixer” button in the Lower Zone to open the Mixer Page:

- **Ctrl/Cmd+Click** the Mixer button = Reset all Zone’s Mixer values to default (MIDI Learn assignments are **not** erased).

On the “Mixer” Page you can:

- Control your multi’s mix (Volume & Pan) without the need to scroll down to the instruments view.
- Label Zones for quick and easy orientation.
- Assign knobs/faders from your MIDI instrument to ZoneMatrix using MIDI Learn.



1. Pan Knob

Controls the instrument’s Panning. Click & drag up/down to set value.

- **Shift+Click** = Fine tune.
- **Ctrl/Cmd+Click** = Reset to default value (center).

- **Alt+Click** = Activates MIDI learn (red). Alt + Click again to abort learn:



Once activated, move the desired Knob/Fader on your MIDI controller to create the link. Resetting ZoneMatrix will reset all MIDI learn assignments.

- **Alt+Shift+Click** = Cancels the MIDI learn assignment.
- Each MIDI CC can control only one fader/knob at a time.
- Resetting ZoneMatrix will reset all MIDI learn assignments.
- Loading a ZoneMatrix preset, or jumping between scenes, automatically updates the pan and volume values of all instruments, according to the current mixer setting.

2. Volume Slider

Controls the instrument's Volume. Click & drag up/down to set value.

- **Shift+Click** = Fine tune.
- **Ctrl/Cmd+Click** = Reset to default value (100).
- **Alt+Click** = Activates MIDI learn (red). Alt + Click again to abort learn:



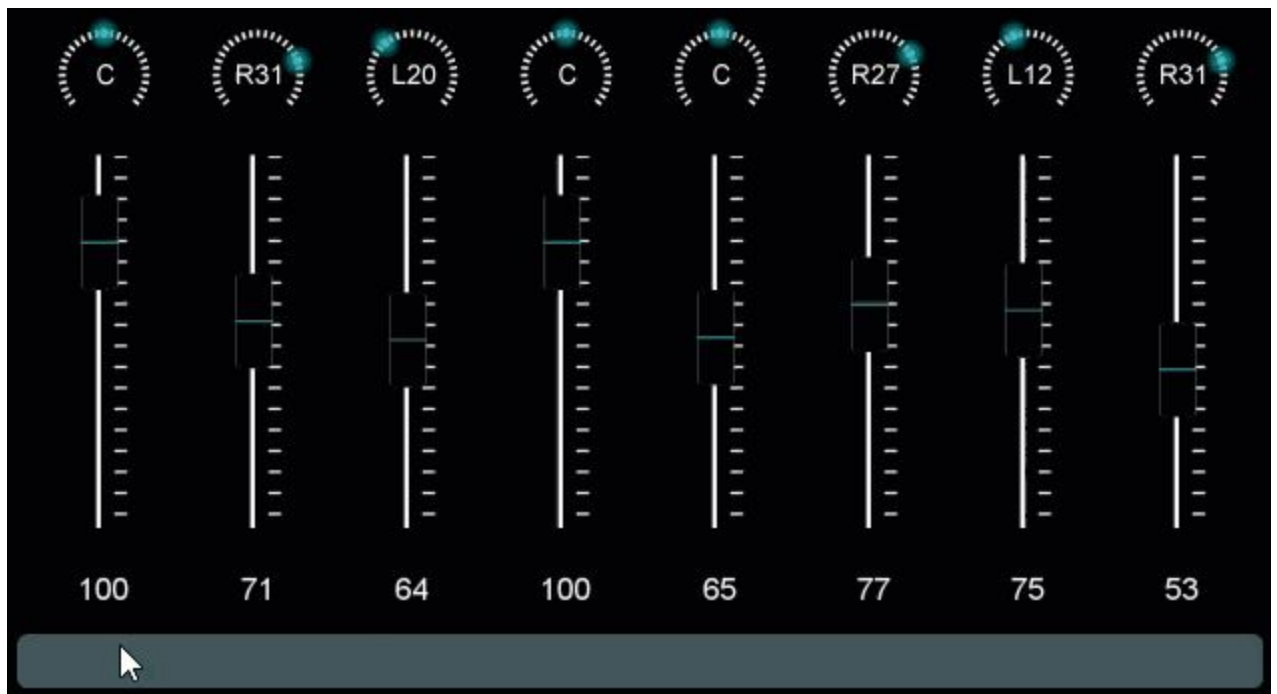
Once activated, move the desired Knob/Fader on your MIDI hardware to create the link.

- **Alt+Shift+Click** = Cancels the MIDI learn assignment.
- Each MIDI CC can control only one fader/knob at a time.
- Resetting ZoneMatrix will reset all MIDI learn assignments.

- Loading a ZoneMatrix preset, or jumping between scenes, automatically updates the pan and volume values of all instruments, according to the current mixer setting.
- If you change an individual instrument's volume/pan outside ZoneMatrix's mixer, the values won't be saved with the scene. Therefore, it is always recommended to set the volume and pan values using the mixer!

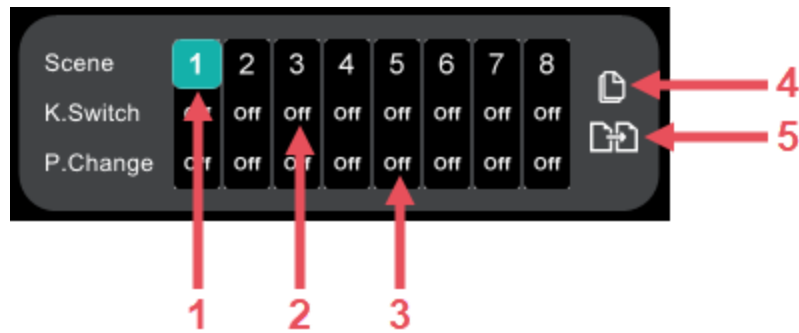
3. Zone Label

Double clicking on the gray strip beneath a volume slider will open the QWERTY keyboard. You can label each Zone with up to 10 characters. Once you're done, click any of the other Name Slots to rename them, or "Exit" to close the QWERTY keyboard:



- **Ctrl/Cmd+Click** = Clear label.
- **Ctrl+Alt+Shift+Click** = Clear all Zone's labels.

Scene Functions



The Scene functions allows you to:

- Jump between totally different Zones settings on the fly.
- Assign Key Switches or Program Change messages to jump Scenes.
- Copy Paste Scenes into one another.
- Reset Scenes.

1. Scene Button

ZoneMatrix has eight available scenes (the default scene is 1). You can jump between different scenes to create progressions, switch ensembles, change variations, alter mixes and so forth. Any change you make to a parameter on any of ZoneMatrix's pages, is auto saved into the active scene.

- Click a Scene button to switch Scene.
- **Ctrl/Cmd+Click** = Reset Scene (see also [Reset Button](#)).
- **Ctrl/Cmd+Alt+Shift+Click** = Opens the reset dialogue box.

2. Key Switch Slots

You can jump between different scenes using Key Switches while playing, for the ultimate expressiveness and performance.

- Click & Drag a Key Switch Slot under the desired scene button, up/down to set a value.
- **Alt+Click** a Key Switch slot = Activate MIDI learn (red). Alt + Click again to abort learn:



Once activated, play the desired note on your MIDI hardware/Kontakt's keyboard to grab it. If you play a note value that's already used by a different slot, the new slot will grab it and the old slot will be turned off.

- **Alt+Shift+Click** a Key Switch Slot = Autofill all slots with note values C-2-G-2.
- **Ctrl/Cmd+Click** a keyswitch slot = Reset to default value (Off).
- **Ctrl/Cmd+ShiftClick** a keyswitch slot = Reset all slots back to default (Off).
- Don't use the same note value on more than one keyswitch slot at the same time! If you don't avoid duplicate MIDI assignments, the lowest scene will be triggered by the keyswitch, while the higher scene keyswitch will be ignored.

3. Program Change Slots

You can jump between different scenes using Program Change MIDI messages while playing, for the ultimate expressiveness and performance.

- Click & Drag a Program Change Slot under the desired scene button, up/down to set a value.
- **Alt+Shift+Click** a Program Change Slot = Auto fill all slots with values 1-8.
- **Ctrl/Cmd+Click** a Program Change Slot = Reset back to default (Off).
- **Ctrl/Cmd+Shift+Click** a Program Change Slot = Reset all slots back to default (Off).

4. Copy Scene Button

Copies the active Scene into memory (red). Click again to abort copying.

5. Paste Scene Button

Paste the copied Scene to a selected Scene:

Additional Upper Zone Functions



Panic

Resets all MIDI messages. Use it in case you encounter hanged MIDI notes.

Reset

Opens the following dialogue box:



- Reset Current Scene - Resets the current Scene back to default.
- Reset ZoneMatrix - Reset ZoneMatrix back to default.
- Cancel - Abort Reset without changes.

Save

Save current ZoneMatrix state to a preset.

Load

Loads a previously saved ZoneMatrix preset.