KURZWEIL®

KM88 Editor

USER'S MANUAL

English Manual

HDC YOUNG CHANG

Table of Contents

About the KM88

Thank you for purchasing the Kurzweil KM88. Read this manual to learn about the KM88 and the KM88 Editor application.

The KM88 is a 4 Zone MIDI controller keyboard which can be used to play and control MIDI sound modules and software instruments via MIDI cable, USB. The KM88 can be configured with up to 4 Zones, allowing for up to 4 different instruments to be split or layered on the keyboard.

Each configuration of 4 Zones is called a Multi. The KM88 includes 8 factory Multis containing useful configurations, and 120 user Multis which can be edited. Each of the 4 Zones in a Multi can have a different MIDI Program, controller settings, and MIDI transmit channel.

The KM88 controls include a Slider, Joystick, 6 Switch Buttons, and 3 Pedal inputs. Each of these controls can be configured independently for each Zone in each Multi. In addition to these controls, the KM88 Editor application includes 9 Virtual Sliders, 9 Virtual Knobs, and 9 Virtual Switches which can be configured independently for each Zone in each Multi.

Installation

For Windows:

1. Download the Windows version of the Kurzweil KM88 Editor from kurzweil.com.

2. Double click the installer file you've downloaded.

3. Follow the on-screen instructions to finish installation.

4. Open the Kurzweil KM88 Editor in one of the following ways:
   • If you've selected to create a desktop shortcut during the installation process, simply double click this shortcut on the desktop.
   • Open the Windows Start menu, scroll down the menu to find the letter "K". Open the KM88 folder to find the Kurzweil KM88 Editor. Double click this application to open it.

For Mac:

1. Download the Kurzweil KM88 Editor from the Mac App Store and install the application.

2. Open the Applications folder on your Mac. Double click the Kurzweil KM88 Editor to open it.

Getting Started

To use the KM88 with the KM88 Editor application, the KM88 must be connected to the KM88 Editor application via USB. **See the "Connect" section on Page 5 for details on connecting.**

When the KM88 Editor is connected to the KM88, engage Play Mode to select Multis and use the application's Virtual Controllers. **See Page 21 for details on Play Mode.**
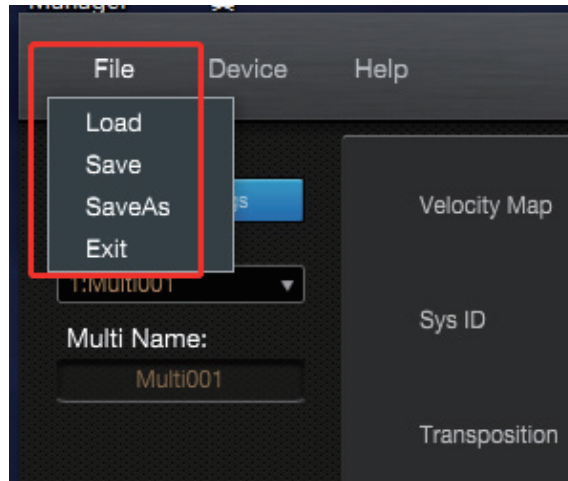
To create your own User Multis, select Edit Mode. **See Page 9 for details on Edit Mode.**

Menu: File

In the File menu, you can load or save a settings backup file, or exit the application.

Load

In the File menu, click "Load" to select a path (location) and the desired settings file (.km8), then click "open" to load the backup settings to the application. After loading a backup file, select "Send All Multis" from the Device menu to update the KM88 with the settings stored in the backup file.

Save

In the File menu, click "Save" to select a path and enter a name, then click "save" to save a backup file of your Multi and Global settings to your computer.

Note: The Load and Save operations will remember the file path that you've selected. The next time you load/save a settings file, it will use the same file path as the last operation.
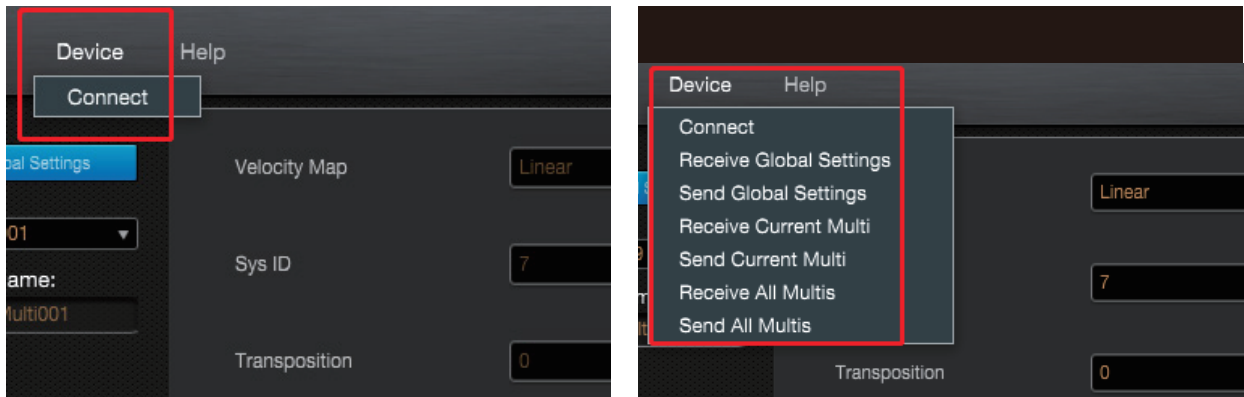
Save As

"SaveAs" functions the same as "Save", but "SaveAs" does not remember the last file path you've selected.

Exit

In the File menu, click "Exit" to close the application.

Menu: Device

In the Device menu, you can connect the KM88 to the application, and send/receive settings to/from the connected KM88.
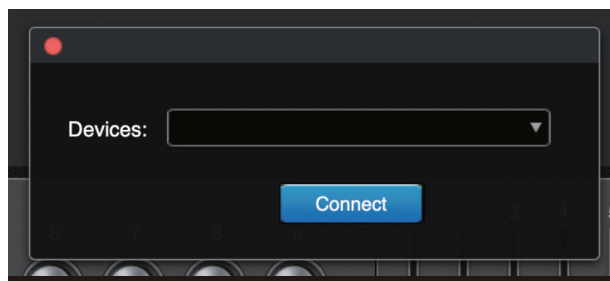

Connect

To use the KM88 with the KM88 Editor application, the KM88 must be connected to the application via USB cable. Follow the USB Cable Connection instructions below.

• **USB Cable Connection:**

   1. Connect a USB cable from the KM88 USB port to your computer. If you are using a USB hub, make sure the hub's power is turned on.

   2. Open the Device drop down menu and click "Connect", you will see the devices dialog (as shown in the image below).

   3. Click the "Devices" list to open it and select KM88 from the list.

   4. Click the blue [Connect] button to connect.

Send Global Settings

Use this to apply adjusted Global Settings while in Edit Mode. Click "Send Global Settings" in the Device menu, the application will send the Global settings to the connected KM88.

Receive Global Settings

Use this to synchronize the application's Global Settings after installing a new version of the KM88 Editor application. Click "Receive Global Settings" in the Device menu, the application will receive Global settings from the connected KM88.

Note: Use caution as this will overwrite any unsaved changes you have made to Global Settings in the application.

Send Current Multi

Use this to apply adjusted Multi Settings while in Edit Mode. Click "Send Current Multi" in the Device menu, the application will send the current Multi settings to the connected KM88.

Note: Use caution as this will overwrite the currently selected Multi stored in the KM88.

Receive Current Multi

Use this to synchronize the application's selected Multi after installing a new version of the KM88 Editor application. (If you only have a few Multis to synchronize, this is faster than "Receive All Multis".) Click "Receive Current Multi" in the Device menu, the application will receive the current Multi settings from the connected KM88.

Note: Use caution as this will overwrite any unsaved changes you have made to the currently select Multi in the application.

Send All Multis

Use this after loading a KM88 backup file (.km8) to apply the loaded Multi settings to the KM88. See Page 4 for details. Click "Send All Multis" in the Device menu, the application will send all Multi settings to the connected KM88.

Note: Use caution as this will overwrite all user Multis stored in the KM88.

Receive All Multis

Use this to synchronize the application's Multis after installing a new version of the KM88 Editor application. Click "Receive All Multis" in the Device menu, the application will receive all Multi settings from the connected KM88.

Note: Use caution as this will overwrite any unsaved changes you have made to Multis in the application.

Menu: Help
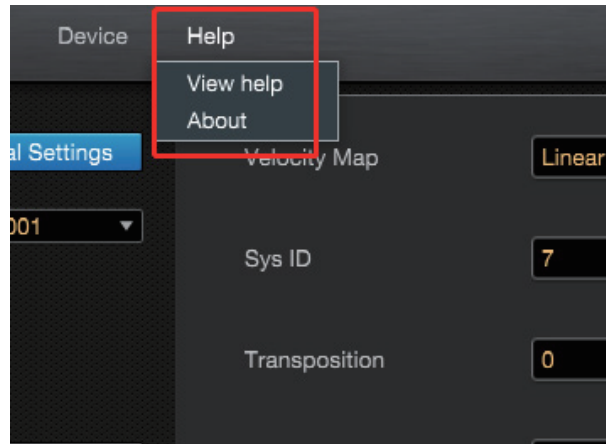
View Help

Click "View help" in the Help menu to view the PDF manual and get more detailed information about the application.

About

Click "About" in the Help menu to check the version number of the application.

Edit Mode and Play Mode

About Edit Mode and Play Mode

The KM88 Editor application provides two modes: Edit Mode and Play Mode. When you open the application or when connecting the KM88 to the application, it will automatically switch to Edit Mode.

Edit Mode is used to edit the settings of the currently selected Multi, and the Global Settings. Switch to Play Mode to apply and save the edited settings to the KM88.

Play Mode is used to select Multis and use the application's Virtual Controllers.

Note: When adjusting settings for the currently selected Multi in Edit Mode, your adjustments will not be applied to the KM88 until you switch to Play Mode, or select "Send Current Multi" from the Device drop down menu.

About Multis

The KM88 is a 4 Zone MIDI controller which can be used to play and control MIDI sound modules and software instruments via MIDI cable, USB, or Bluetooth. The KM88 can be configured with up to 4 Zones, allowing for up to 4 different instruments to be split or layered on the keyboard.

Each configuration of 4 Zones is called a Multi. The KM88 includes 8 factory Multis containing useful configurations, and 120 user Multis which can be edited. Each of the 4 Zones in a Multi can have a different MIDI Program, controller settings, and MIDI transmit channel.

The KM88 controls include a slider, joystick, 6 switch buttons, and 3 pedal inputs. Each of these controls can be configured independently for each Zone in each Multi. In addition to these controls, the KM88 Editor application includes 9 Virtual Sliders, 9 Virtual Knobs, and 9 Virtual Switches which can be configured independently for each Zone in each Multi.

Edit Mode

Click the [Edit Mode] button to engage Edit mode. When the [Edit Mode] button turns blue, Edit Mode is engaged.

In Edit Mode, you can edit the Global Settings and User Multis, send the edited settings to the connected KM88 and/or receive settings from the KM88. For more details, see the Send/Receive options on Page 7.

Note: When adjusting settings for the currently selected Multi in Edit Mode, your adjustments will not be applied to the KM88 until you switch to Play Mode, or select "Send Current Multi" from the Device drop down menu.

See the sections below for details on using each page in Edit Mode.

Edit Mode: Global Settings Page

Click the [Global Settings] button to view the Global Settings page. When viewing the Global Settings page, the [Global Settings] button turns blue.

Global Settings apply to all Multis. When Edit Mode is engaged, you can adjust the parameters on the Global Settings page.

Note: After adjusting Global Settings in Edit Mode, your adjustments will not be applied to the KM88 until you switch to Play Mode, or select "Send Global Settings" from the Device drop down menu.

Edit Mode: Global Settings Parameters

Velocity Map

The Velocity Map parameter determines the way the KM88 generates MIDI velocities. Different maps generate different MIDI velocity values for the same physical key strike velocity. After applying Global Settings to the KM88, the Velocity Map setting will be remembered the next time the KM88 is powered on.

The default map (Linear) provides the widest range of velocity expression, but you may want to choose a different map if the default does not suit your playing style. You can select from these settings:

● Linear, Light1, Light2, Light3, Hard1, Hard2, Hard3

The Linear map allows MIDI velocities to pass unchanged. It follows a linear response.

The Light maps make it increasingly easier to produce high MIDI velocity values for the same key strike velocity (with Light3 being the easiest). These maps work best for those with a light touch.

The Hard maps make it increasingly harder to produce high MIDI velocity values for the same key strike velocity (with Hard3 being the hardest). These maps work best for those with a heavy touch.

Transposition

The Transposition parameter allows you to tune the pitch of the unit in semitones. This setting is reset to 0 when the KM88 is powered on.

Auto PowerOff Time

The KM88 has an automatic power saving feature (Auto Power Off) that can automatically power off the KM88 after a period of inactivity, in order to conserve electricity. By default this is set to 4 hours. After applying Global Settings to the KM88, the Auto PowerOff Time setting will be remembered the next time the KM88 is powered on.

System ID

The System ID number is used to identify each KM88 when multiple KM88s are connected to the same computer. Each KM88 must be set to a different System ID number. After applying Global Settings to the KM88, the System ID setting will be remembered the next time the KM88 is powered on.

Edit Mode: Multi Settings

Each configuration of 4 Zones is called as a Multi. The KM88 includes 8 factory Multis containing useful configurations, and 120 user Multis which can be edited. Each of the 4 Zones in a Multi can have a different MIDI Program, controller settings, and MIDI transmit channel.

The KM88 controls include a slider, joystick, 6 switch buttons, and 3 pedal inputs. Each of these controls can be configured independently for each Zone in each Multi. In addition to these controls, the KM88 Editor application includes 9 Virtual Sliders, 9 Virtual Knobs, and 9 Virtual Switches which can be configured independently for each Zone in each Multi.

Each Multi can be saved with its own settings for the Buttons page and Zones page. See the sections below for details on using each of the Multi Settings pages in Edit Mode.

Note: When adjusting settings for the currently selected Multi in Edit Mode, your adjustments will not be applied to the KM88 until you switch to Play Mode, or select "Send Current Multi" from the Device drop down menu.

Multi List

The drop-down list on the left side shows the Multi numbers and names. Click this list to open it and select a Multi.

Multi Name

When Edit Mode is selected, for User Multis 9-128, you can rename the selected Multi by using the Multi Name field below the Multi list.

Virtual Controllers

When Edit Mode is selected, click on any of the Sliders, Knobs, or Buttons on the bottom of the window to jump to viewing their associated parameters.

Edit Mode: Buttons Page

Click the [Buttons] button to view the Buttons page. When viewing the Buttons page, the [Buttons] button turns blue. Use the Buttons page to assign functions to the six front panel buttons of the KM88.

Click one of the six buttons on the Buttons page to view it's assignment in the Function list. When you select one of the six buttons on screen, the button will turn blue.

Note: When you are not viewing the Buttons page, you can also click on any of the 6 Buttons on the bottom left of the window to jump to viewing the selected Button on the Buttons page.

Edit Mode: Buttons Page Parameters

In each Multi, each of the six front panel buttons can be assigned to one of the following functions:

Multi X

This function allows you to specify a Multi number which will be selected when the button is pressed. This is useful for selecting frequently used favorite Multis.

Multi + and Multi -

These functions select the next or previous Multi in the list when the button is pressed. These functions should typically be assigned to two adjacent buttons, Multi - at the left and Multi + at the right. When both functions are assigned, press the two assigned buttons at the same time to select Multi 1.

Transposition + and Transposition -

These functions tune the pitch of all Zones in all Multis in semitones when the button is pressed. These functions should typically be assigned to two adjacent buttons, Transposition - at the left and Transposition + at the right. When both functions are assigned, press the two assigned buttons at the same time to reset transposition.

Note: These transpositions functions are applied in addition to any Transposition applied on the Zones sub-page 1 of Each Zone, and any Transposition applied on the Global Settings page.

Edit Mode and Play Mode

MMC Play and MMC Stop

These functions send MMC Play or MMC Stop messages when the button is pressed. MMC Play and MMC Stop messages can be used to start or stop playback in connected hardware or software sequencers (such as a hardware drum machine or a DAW on a computer).

Programmable Button

This function allows you to control a Virtual Switch assignment when the button is pressed. After clicking on "Programmable Button" in the Function list, click on the Virtual Switch drop down list to select a Virtual Switch to control. Virtual Switches can be assigned on Zones sub-page 3. For details see Page 17.

Mute / Activate a Zone

This function allows you to switch a Zone's Status between Mute and Active when the button is pressed. You can assign one button to control one or multiple Zones. After clicking on "Mute / Activate a Zone" in the Function list, use the four check boxes to select which Zones the button will control. Zones with a Status set to Off can not be controlled.

MIDI Panic

This function will send a MIDI Panic message when the button is pressed. MIDI Panic stops all notes, sets all CC controller values to 0, and reloads the selected Multi.

Edit Mode: Zones Page

Click the [Zones] button to view the Zones page. When viewing the Zones page, the [Zones] button turns blue. Use the Zones page to set Zone specific settings for each of the four Zones in the selected Multi.

Zones

There are four Zones in each Multi. Use the [Zone 1-4] buttons to select a Zone. The selected Zone button will turn blue, and the interface will show the selected Zone's parameter settings. Each Zone has the same parameters, which can be set to different settings for each Zone.

Zones Sub-Pages

The Zones page has four sub-pages. Use the [1-4] or Left/Right buttons to select a Zones sub-page.


Copy Zone and Paste Zone

If you want to use the same settings in multiple Zones, click the [Copy Zone] button to copy the settings of the current Zone, then use the [Zone 1-4] buttons to select a target Zone and click the [Paste Zone] button to paste the settings to that Zone.

Virtual Controllers

Click on any of the Sliders, Knobs, and Switches on the bottom half of the window to jump to viewing their associated parameters.

13

Edit Mode: Zones Sub-Page 1 Parameters
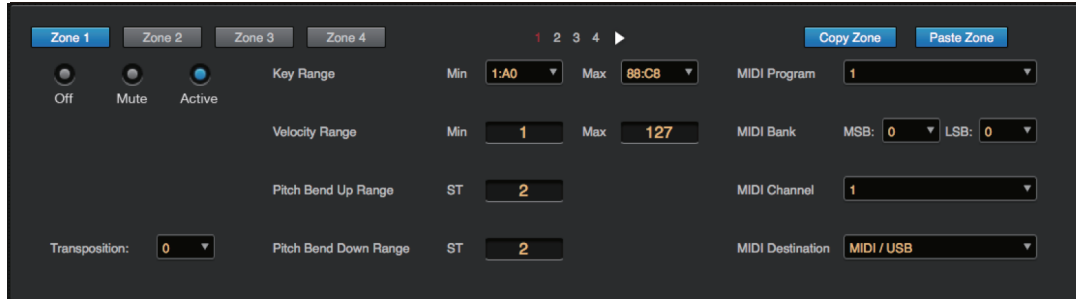
Status

Click the Off, Mute, and Active buttons in the top left of the Zones sub-page 1 to set the Status of the currently selected Zone. You can select from these settings:

● Off: The Zone will not transmit any MIDI messages.

● Mute: The Zone will only transmit MIDI Program Change messages and MIDI CC messages for the Initial State of each controller when the Multi is selected.

● Active: The Zone will transmit all MIDI messages.

Transposition

The Transposition parameter allows you to tune the pitch of currently selected Zone in semitones.

Note: This Transposition parameter is applied in addition to any Transposition by the Buttons page functions of the current Multi, and any Transposition applied on the Global Settings page.

Key Range Min / Max

The Key Range Min and Max fields set the lowest and highest keys which will play a note in the Zone. Use these parameters in each Zone to Split or Layer instruments across the keyboard.

Velocity Range

The Velocity Range Min and Max fields set the lowest and highest velocities which will play a note in the Zone. Use these parameters in each Zone to trigger different instruments based on the velocity of notes played.

Pitch Bend Up Range / Pitch Bend Down Range

The Pitch Bend Up Range and Pitch Bend Down Range fields determine the pitch bend range of the joystick when moving the joystick right and left.

Note: Some MIDI instruments do not respond to pitch bend range messages. In this case the pitch bend range must be specified on the connected MIDI instrument.

Edit Mode and Play Mode

MIDI Program

Use the MIDI Program parameter to select the MIDI instrument sound (Program) which will be controlled by the Zone. Most MIDI instruments have sounds organized in Banks of 128 Programs.

The MIDI Program parameter determines the MIDI Program Change message that the currently selected Zone sends when the Multi is selected. Select a value from 1-128 to send the desired Program Change number.

If you select NONE, the currently selected Zone will not send a Program Change message when the Multi is selected. NONE is useful when you don't want the Multi to automatically change the program, and wish to manually select the Program on the connected MIDI instrument.

Note: The KM88 displays Program Change numbers as 1-128 for each Bank. If the connected MIDI instrument displays Program Change numbers as 0-127 for each Bank, the connected MIDI instrument may select a program 1 value lower than the value selected on the KM88.

MIDI Bank

The MIDI Bank parameter determines the MIDI Bank Change message that the currently selected Zone sends when the Multi is selected. Use the MSB and LSB fields to set the MIDI Bank number.

MIDI instruments typically contain banks of 128 Programs. When selecting from the first 128 Programs, leave the MSB and LSB fields set to 0.

To select a Program number greater than 128, you must select a MIDI Bank. For most MIDI instruments, leave MSB set to 0, then set LSB values 0-127 to select Banks 1-128 (sometimes referred to as Banks 0-127). For Banks greater than 128, increase the MSB value to 1 to select the second 128 Banks, and so forth. (MSB sends CC message 0, and LSB sends CC message 32.)

MIDI Channel

The MIDI Channel parameter sets the MIDI channel number for the currently selected Zone. Each Zone can use a different MIDI Channel, allowing for a different instrument sound to be played on each channel.

MIDI Destination

The MIDI Destination parameter determines whether MIDI data generated by the currently selected Zone is sent to the MIDI Out port, USB port, or any combination of these destinations.

Edit Mode: Zones Sub-Page 2 and 3 Parameters

Zones sub-pages 2 and 3 contain various Switch and CC Controllers.

Switch Controllers (Sustain Pedal, SW Pedal, 9 Virtual Switches) can send an On and Off value, and are useful for enabling and disabling things like Sustain, Layers, and Effects.

CC Controllers (Volume Slider, Expression Pedal, Stick Up/Down, 9 Virtual Sliders, 9 Virtual Knobs) can send continuous values from 0-127, and are useful controlling things like Volume, Filter Frequency, and Effects Amount.
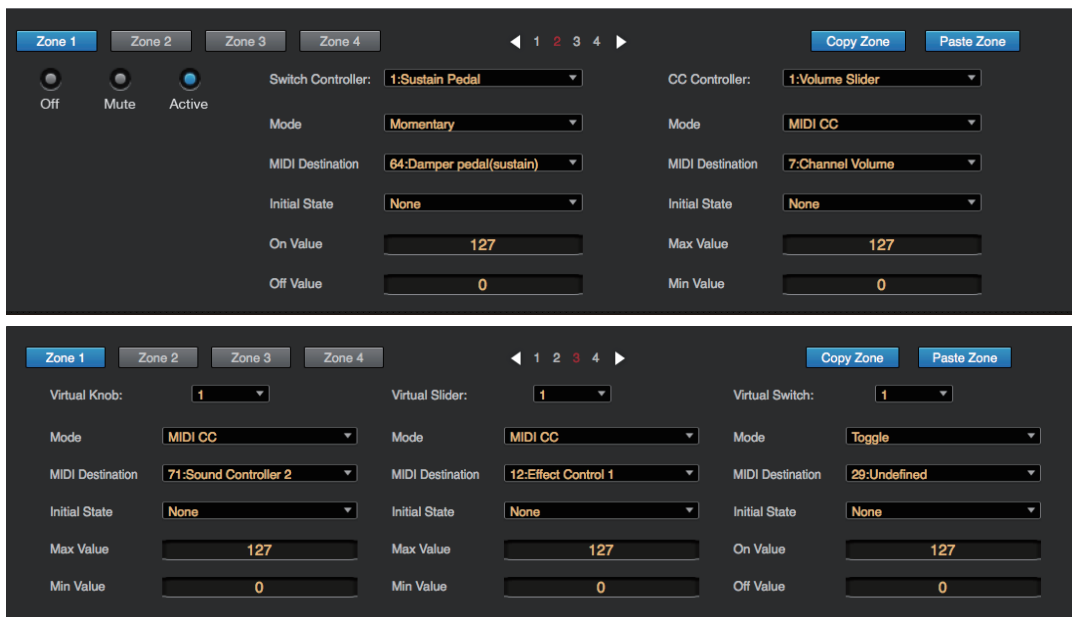
Switch Controller (Sustain Pedal, SW Pedal, 9 Virtual Switches)

Each of the Switch Controllers (Sustain Pedal, SW Pedal, 9 Virtual Switches) can be assigned to transmit a MIDI CC message on the Zone's MIDI channel. Each Switch Controller can send an initial value when the Multi is selected, and a specified On and Off value when the switch is On or Off. Each Switch Controller can also be set to Toggle or Momentary Mode.

To assign the Sustain Pedal or SW Pedal, go to the Zones sub-page 2 and click on the Switch Controller drop down list, then click the desired controller in the list. The settings for the selected controller will be shown in the fields below the Switch Controller drop down list.

To assign the 9 Virtual Switches, go to the Zones sub-page 3 and click on the Virtual Switch drop down list, then click the desired controller in the list. The settings for the selected controller will be shown in the fields below the Virtual Switch drop down list.

Note: You can also click on any of the Virtual Switches on the bottom right of the window to jump to viewing their associated parameters.

All Switch Controllers have the following parameters: Mode, MIDI Destination, Initial State, On Value / Off Value. See below for details.

Mode

When Mode is set to Momentary, the Switch Controller sends its "On Value" when pressed, and its "Off Value" when released.

When Mode is set to Toggle, the Switch Controller alternates between sending its "On Value" or "Off Value" each time it is pressed. No value is sent when the controller is released.

MIDI Destination

Use the MIDI Destination field to determine which CC message the Switch Controller will send. Select a Destination based on the MIDI CC numbers the connected MIDI instrument is assigned to respond to.

Note: MIDI Destinations are named with their default function. Depending on the MIDI instrument you are controlling, it may or may not perform the named function, or any function. You may be able to make custom CC number assignments for functions on the connected MIDI instrument. For Switch Controllers, many MIDI instruments respond to Destination 64 Damper Pedal (Sustain).

Initial State

The Initial State parameter determines the state of the Switch Controller when the Multi is selected.

If Initial State is set to None, no CC message will be sent when the Multi is selected.

If Initial State is set to On, a CC message will be sent when the Multi is selected using the controller's selected MIDI Destination and the value set in the On Value field.

If Initial State is set to Off, a CC message will be sent when the Multi is selected using the controller's selected MIDI Destination and the value set in the Off Value field.

On Value / Off Value

The On Value and Off Value parameters determine the value that will be sent for the assigned MIDI Destination when the Switch Controller is turned On or Off.

CC Controller (Volume Slider, Expression Pedal, Stick Up/Down, 9 Virtual Sliders, 9 Virtual Knobs)

Each of the CC Controllers (Volume Slider, Expression Pedal, Stick Up/Down, 9 Virtual Sliders, 9 Virtual Knobs) can be assigned to transmit a MIDI CC message or MIDI pressure message on the Zone's MIDI channel. Each CC Controller can send an initial value when the Multi is selected, and continuous values from 0-127.

To assign the Volume Slider, Expression Pedal, or Stick Up/Down, go to the Zones sub-page 2 and click on the CC Controller drop down list, then click the desired controller in the list. The settings for the selected controller will be shown in the fields below the CC Controller drop down list.

To assign the 9 Virtual Sliders or 9 Virtual Knobs, go to the Zones sub-page 3 and click on the Virtual Slider or Virtual Knob drop down list, then click the desired controller in the list. The settings for the selected controller will be shown in the fields below each drop down list.

Note: You can also click on any of the Virtual Sliders or Knobs on the bottom of the window to jump to viewing their associated parameters.

All CC Controllers have the following parameters: Mode, MIDI Destination, Initial State, Max Value / Min Value. See below for details.

Mode

When Mode is set to MIDI CC, the CC Controller sends MIDI CC messages, and you can select a destination from the selected controller's MIDI Destination field.

When Mode is set to Pressure, the CC Controller sends MIDI pressure messages. Pressure messages often control Vibrato or Filter Frequency. Depending on the MIDI instrument you are controlling, it may or may not respond to pressure messages. You may be able to make custom pressure assignments for functions on the connected MIDI instrument.

MIDI Destination

When Mode is set to MIDI CC, use the MIDI Destination field to determine which CC message the CC Controller will send. Select a Destination based on the MIDI CC numbers the connected MIDI instrument is assigned to respond to.

Note: MIDI Destinations are named with their default function. Depending on the MIDI instrument you are controlling, it may or may not perform the named function, or any function. You may be able to make custom CC number assignments for functions on the connected MIDI instrument. For CC Controllers, many MIDI instruments respond to Destination 1 Modulation Wheel for controlling Vibrato or Filter Frequency, Destination 7 Channel Volume, Destination 10 Pan, and Destination 11 Expression.

Initial State

The Initial State parameter determines the CC value that will be sent for the selected controller when the Multi is selected. Select a value from 0-127 to send the desired CC value. If you select NONE, the selected CC Controller will not send a CC message when the Multi is selected.

Max Value / Min Value

The Max Value and Min Value parameters determine the range of values that can be sent for the selected CC Controller.

Edit Mode: Zones Sub-Page 4 Parameters
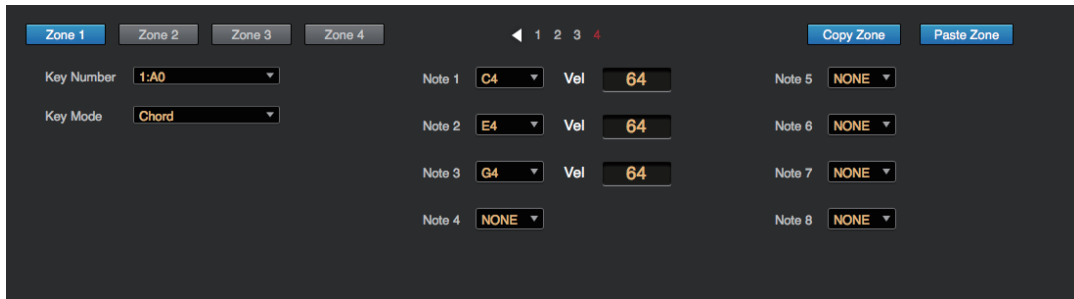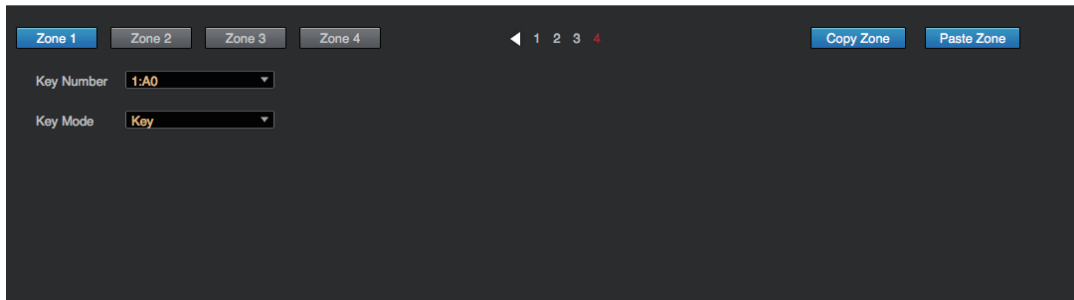
Key Number

Each of the Keys in a Zone can be assigned to transmit the original note of the Key, or a Chord. To assign a Key, go to the Zones sub-page 4 and click on the Key Number drop down list, then click the desired Key Number in the list.

Key Mode

When Key Mode is set to Key, the selected Key Number plays the original note of the key.

When Key Mode is set to Chord, the selected Key Number plays a chord of up to 8 notes.

Note 1 - Note 8

When Key Mode is set to Chord, the Note 1 through Note 8 fields appear. Use these fields to select a chord of up to 8 notes. Use the Vel fields to set a velocity from 0-127 for each note.

Play Mode

In Play Mode, you can select and play Multis, and use the Virtual Sliders, Knobs, and Buttons.

Play Mode: Preparation

To engage Play Mode, the KM88 must be connected to the KM88 Editor application. For details see "Connect" on Page 5.

When the KM88 is connected to the KM88 Editor application, click the [Play Mode] button to engage Play Mode.

Note: When engaging Play Mode, any adjustments made to the currently selected Multi or on the Global Settings page will be applied to the KM88. A message will prompt you to continue or cancel. Click [OK] to continue to Play Mode and apply any adjusted settings, or click [Cancel] to remain in Edit Mode.

If you see the "Device is not ready" message, it indicates the KM88 is not connected to the KM88 Editor application. Click [OK], connect the KM88, and try again. For details on connecting, see "Connect" on Page 5.

When the [Play Mode] button turns blue, Play Mode is engaged.

Play Mode: Interface

The drop-down list on the left side shows the Multi numbers and names. Click this list to open it and select a Multi. You can use the Sliders, Knobs, and Buttons on the bottom of the window to control the currently selected Multi.

In Play Mode, parameters on the Global Settings page, Buttons page, and Zones page can be viewed but not edited. Select Edit Mode to edit parameters on these pages.

Trademarks & Licenses

KURZWEIL