



WORLDE ORCA PAD48 MIDI Controller User Manual

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WORLDE ORCA PAD48 MIDI Controller User's Manual

Packing list: WORLDE ORCA PAD 48*1

USB cable*1

USB power cord*1

MIDI to 3.5 audio cable*1

User manuals*1

Notice: To ensure your ORCA PAD 48 can be used properly, please use both the USB cable and USB power cord for the power supply.

1. Connect your ORCA PAD 48 to your computer with both the USB cable and USB power cord if you are using it with a PC.
2. When using it with a mobile phone or Pad, connect your ORCA PAD 48 to your mobile phone /Pad and mobile phone charger respectively with the USB cable and the USB power cord simultaneously.

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- 2 Features
- 3 Parts and Their Functions
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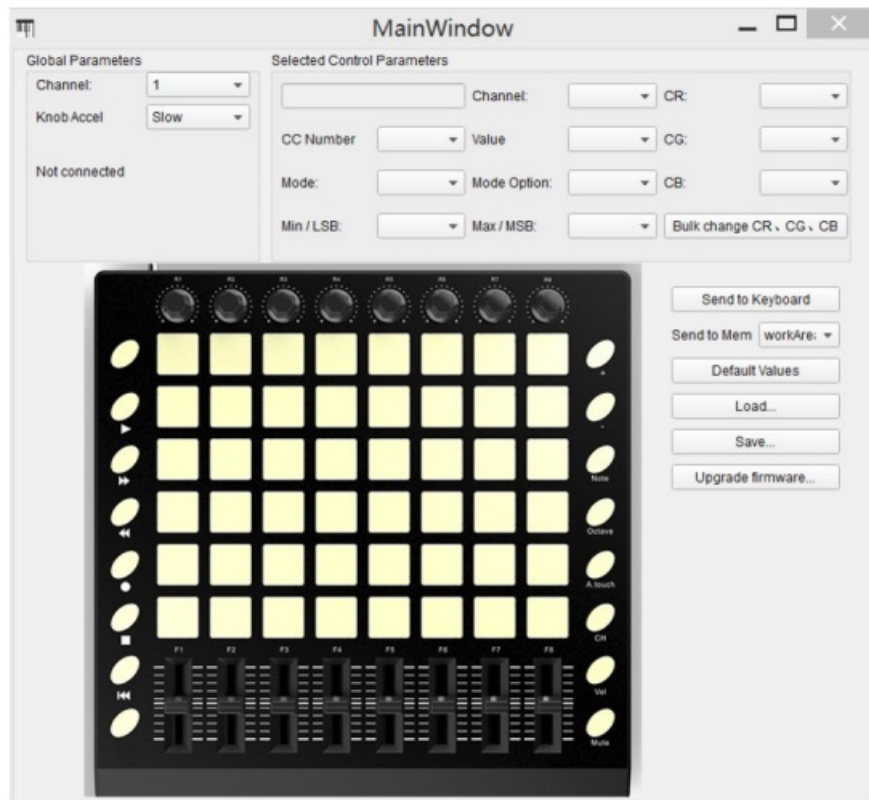
Introduction

Thank you for purchasing the WORLDE ORCA PAD 48 USB MIDI controller. To help you get the most out of your new instrument, please read this manual carefully. Your ORCA PAD 48 midi controller will not make any sound unless it is connected to a computer or other external MIDI gear. This is because the ORCA PAD 48 sends MIDI data when you play it and does not produce sound on its own. Instead, it is used to control a virtual instrument on your computer or a MIDI sound module to generate sounds. In order to use the functions of this product, you'll need to make settings in the application you're using. Make settings as described in the owner's manual for your application.

ORCA PAD 48 integrates perfectly with DAWs (such as Ableton Live, Bitwig, and so on) for both production and performance.

Features

- 48 high-quality velocity & pressure-sensitive performance pads with RGB backlit, can be assigned easily as pads, MIDI CC buttons or Program change switches.
- 8 assignable encoders.
- 8 assignable control sliders.
- Function buttons, providing functions like OCTAVE, AFTERTOUCH, VELOCITY, MUTE and etc.
- USB interface, adaptable to USB 2.0(FULL SPEED). Power supplied by USB.
- MIDI IN, MIDI OUT
- Compatible with Win10/8/7/XP/Vista and Mac OSX. Drive free and hot-plug supported.
- Edited by the ORCA PAD 48 Software Editor, the picture below is the main screen. It can be downloaded from WWW.WORLDE.COM.CN for this software editor.



Parts and Their Functions

3.1 ORCA PAD 48 Overview

3.1.1 Top Panel Overview



3.1.2 Rear Panel Overview



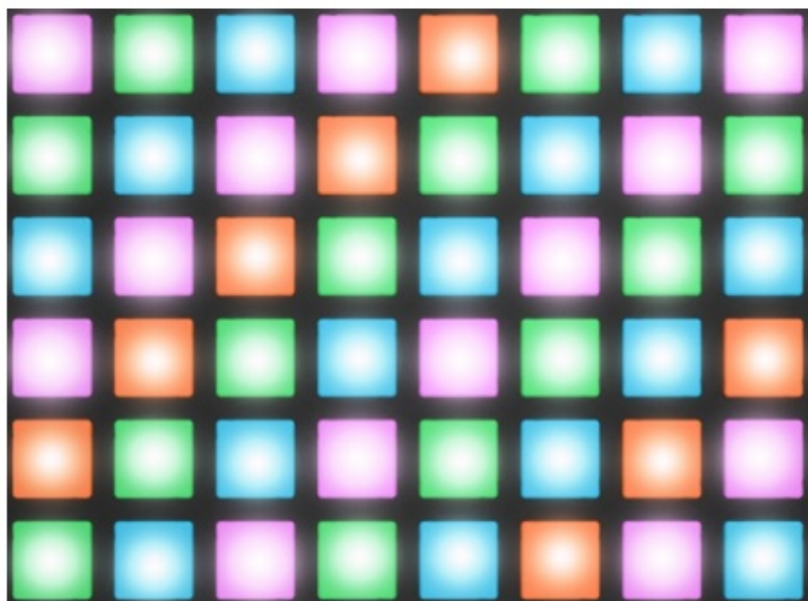
Control Definitions

1. Encoders 2. Sliders 3. Trigger pads 4. [Note] button 5. [Octave] button 6. [A.Touch] button 7. [Channel] button 8. [Velocity] button 9. [Mute] button	10. [Volume] button 11. [MMC] button 12. [Memory] button 13. [<] and [>] button 14. Full-Sized USB connector 15. [MIDI OUT] Connector 16. [MIDI IN] Connector 17. DC 5V 18. [OFF/ON] button
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3.2 Parts and Their Functions

3.2.1 The pads/preset buttons

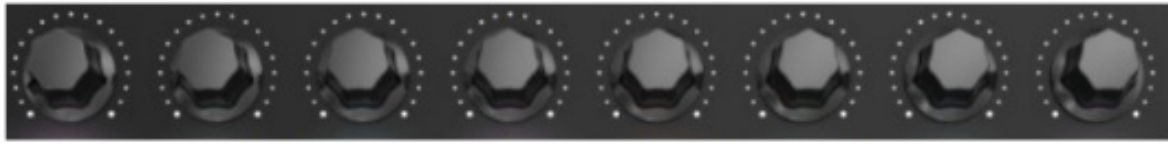
ORCA PAD 48 has 48 high-quality velocity & pressure-sensitive performance pads with RGB backlit which can be assigned easily as pads, MIDI CC buttons or Program change switches. The pads can be used to trigger drum hits to our software or hardware module. The pads are pressure and velocity-sensitive, which makes them very responsive and intuitive to play. With the software editor, it's possible to adjust the RGB color of the pads.



The pads

3.2.2 Parameter control encoders

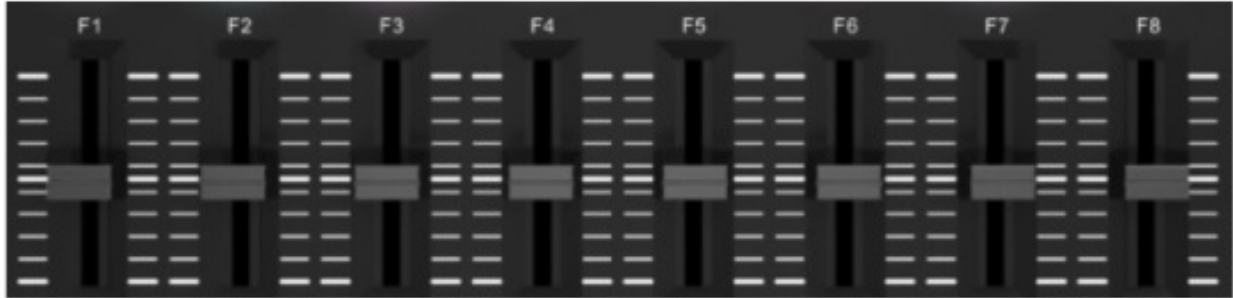
These encoders transmit control change messages. The 8 encoders can be assigned to control any editable parameter on the selected device. Each encoder can be used to send continuous control data to a desktop audio workstation or external MIDI device.



The Parameter control encoders

3.2.3 Parameter control sliders

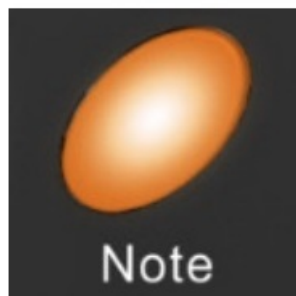
The 8 sliders can be assigned to control any editable parameter on the selected device. These sliders transmit control change messages. Each slider can be used to send continuous control data to a desktop audio workstation or external MIDI device.



The Parameter control sliders

3.2.4 Note button

The 48 pads have dual modes: trigger pads mode and keynote mode. Click the note button to start the note mode of the 48 pads, press the +/- button to increase or decrease the current note by a semitone.

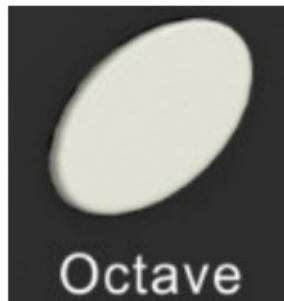


Note button

3.2.5 Octave button

Pushing the Octave buttons will transpose the keyboard by as much as four octaves up or down. The farther from the center the keyboard has been transposed, the faster the buttons will flash.

Click the Octave button to start the Octave function, use +/- button to adjust Octave. The adjustment range is from 0 to 4. Press DATA +/- buttons at the same time to set octave to initial 0.



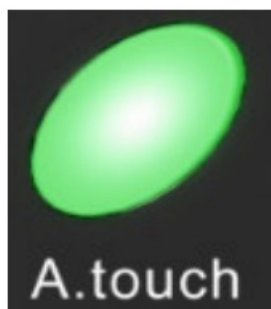
Octave button

3.2.6 A. TOUCH button

Click the A.touch button to start the function of channel Aftertouch and keyboard aftertouch. Channel Aftertouch is on when the LED color is red for the A.touch button.

Keyboard Aftertouch is on when it's blue for the A.touch button. When Channel Aftertouch is on, the system sends

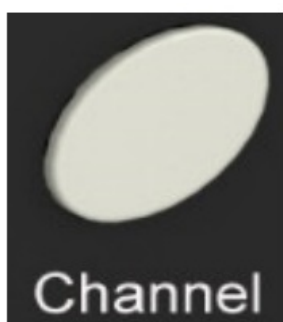
Channel Aftertouch info when pressing the pads. When Keyboard Aftertouch is on, the system sends Keyboard After touch info when pressing the pads.



After touch button

3.2.7 Channel button

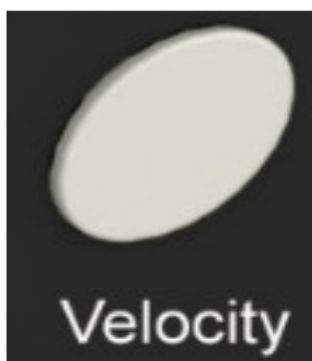
Channel selection function button, selecting current MIDI channel. Click the channel button to start the channel function, use +/- button to select the channel. The initial setting is 1, adjusting scale is 1~16.



Channel button

3.2.8 Velocity button

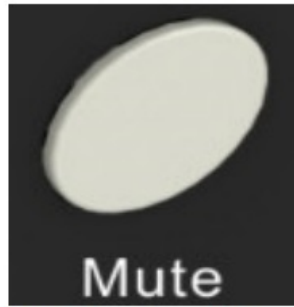
Every time you press a key, a MIDI note message is sent with a velocity value between 0 and the maximum; this value specifies how hard you pressed the key. Since different people have different playing styles, your ORCA PAD 48 offers a number of different velocity curves. You should experiment with the different velocity curves to find the curve that best suits your playing style. Click the velocity button to start the velocity selection function, the medium(or normal) velocity is on when the LED color of velocity button is green, heavy velocity is on when it's in red color, and blue for constant velocity.



Velocity button

3.2.9 Mute button

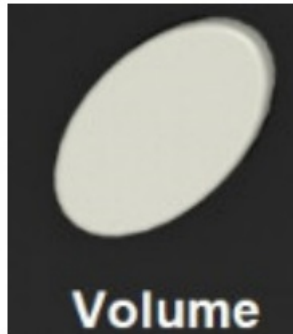
Mute ON/OFF button. Click mute button will start the mute function. No message will be transmitted under Mute mode. Factory default is MMC mode. Press [<<] and [play] button simultaneously will start the CC mode of the buttons. In this mode, buttons will transmit control change messages.



Mute button

3.2.10 Volume button

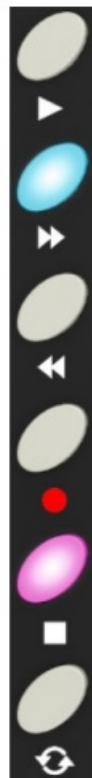
It sends GM Master Volume message F0 7F 7F 04 01 00 xx F7).



Volume button

3.2.11 [MMC] button

There are 6 buttons used for MMC-[|<<],[<<],[>>],[O],[stop],[play]. It is common to set the 6 buttons as Sequencer remote control buttons, it needs to be working with sequencer software. Factory default is MMC mode. Press [|<<] and [play] button simultaneously will start the CC mode of the buttons. In this mode, buttons will transmit control change messages.

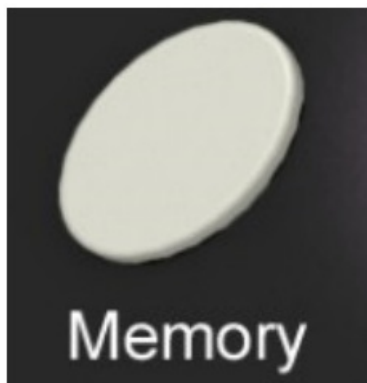


MMC button

3.2.12 Memory button

Holding the memory button and pressing one of the pads to recall the parameters in the Memory area.

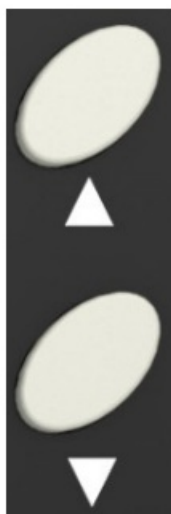
Press the MEMORY button. The system enters the storing state, it stores 6 groups setup value.



Memory button

3.2.13 [<] and [>] button

These buttons are used for navigating through fields of menus and options.



Navigation button

3.2.14 Full Sized USB connector

Connect the ORCA PAD 48 to your computer with a USB cable via this port.

3.2.15 [MIDI OUT] Connector

Use a five-pin MIDI cable to connect the MIDI OUT of the ORCA PAD 48 to the MIDI IN of an external device.

3.2.16 [MIDI IN] Connector

Use a five-pin MIDI cable to connect the MIDI OUT of an external MIDI device to the MIDI IN of the ORCA PAD 48.

3.2.17 DC 5V

5V power input interface.

3.2.18 [OFF/ON] button

Power Off/On button.

Setup

4.1 Minimum System Requirements

Windows	Mac OS
i3 1.2GHz or higher	Macintosh i3*1.2GHz/P4*1.2GHz or higher
1G RAM	(CPU requirement may be higher for laptops)
(CPU requirement may be higher for laptops)	OS X 10.3.9 with 1G RAM,
Direct X 9.0b or higher	OS X 10.4.2 or greater with 1G RAM
Windows XP (SP2) or higher	*G3/G4 accelerator cards are not supported.
(Windows 98, Me, NT or 2000 not supported)	

4.2 Making detailed settings

The following settings cannot be edited on the WORLDE ORCA PAD48 instrument, so you need to use the WORLDE ORCA PAD48 control Editor. You can download the WORLDE ORCA PAD48 control Editor from WORLDE website www.worlde.com.cn.

Using ORCA PAD 48 with Software

5.1 Creating MIDI Presets with the ORCA PAD 48 Software Editor

5.1.1 Overview: What is an ORCA PAD 48 Preset?

Thanks to the ORCA PAD 48 Software Editor it's possible to configure the ORCA PAD 48 to work with practically any device or software capable of responding to MIDI information.

To summarize, here are some examples of what you can do with an ORCA PAD 48 preset:

- Assign pads to send MIDI Machine Control commands (MMC).
- Use the pads to transmit MIDI notes.
- Switch between two values of any MIDI CC# by playing a pad.
- Assign an encoder to control any MIDI CC# and define its operational range.
- Assign a slider to control any MIDI CC# and define its operational range.
- Save the entire set of altered controls to one of ORCA PAD 48's eight preset locations.
- Define another seven sets of parameter assignments and save each one to a different memory location.
- Recall any of the eight personalized presets easily and immediately.

5.1.2 Assign a Pad to Start/Stop MMC

One feature that often comes in handy with a controller keyboard is the ability to start and stop a song without having to use the computer keyboard or mouse. It's really easy to set up the ORCA PAD 48 pads to do that.

For example, we'll use Pad 7 to send Stop commands and Pad 8 to send Start commands this is accomplished through the use of MIDI Machine Control commands, which you've probably seen abbreviated as "MMC".

5.1.2.1 Select the Pad Mode

Let's begin by selecting Pad 7 by clicking on its graphic in the MIDI Control Center or by tapping Pad 7 on the ORCA PAD 48. Then click the Mode field to activate the pull-down menu:

Selected Control Parameters

Pad #7

CC Number 1

Mode: Switched

5.1.2.2 Set the MMC Message number

Once the Mode has been set to MMC, the trick is to set both the LSB and MSB to the same number so the pad knows which command to send. MMC Stop command needs the CC number set to 1, like so:

Selected Control Parameters

Pad #7

CC Number 1

Next, select Pad 8 so we can set it to the MMC command for “Start”. This means the CC the number must be set to 2:

Selected Control Parameters

Pad #8

CC Number 2

Now you should have Pad 8 set to start your song and Pad 7 set to stop it. Of course you can assign those functions to any pad you like, now that you know how to do it.

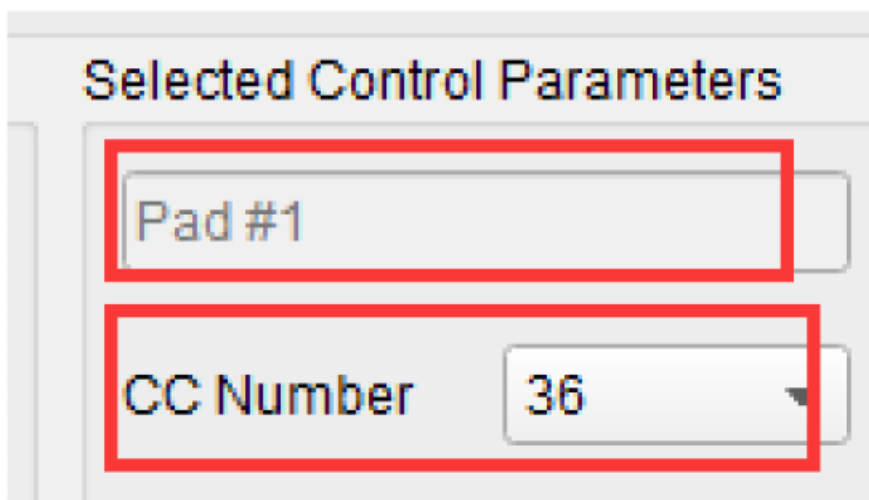
5.1.3 Assign a couple of Pads to MIDI notes

The natural thing to do when you’re starting a song is to lay down the kick and snare tracks. The ORCA PAD 48 pads can be assigned to any MIDI note number that you like, so for this example, we’ll set Pads 1 and 2 to trigger the General MIDI note numbers for the Bass drum and Snare drum (MIDI note numbers 36 and 38, respectively). By default, the pads have their Mode set to MIDI note, so when you select each Pad we’ll get right down to

selecting the MIDI note number and velocity values. Let's leave the other setting to "Gate" so the notes shut off when you lift the pad; you can try the "Toggle" value later if you'd like the MIDI note to stay "On" until you hit the pad a second time.

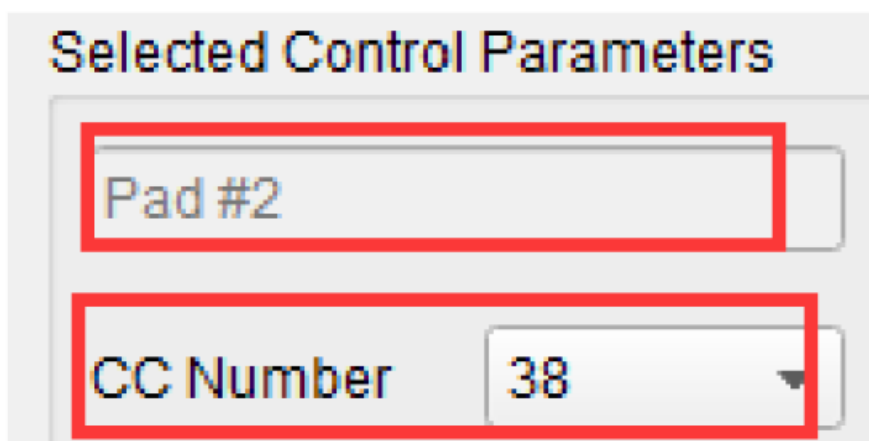
5.1.3.1 Select the MIDI note number: Kick

The CC number field is used to set the MIDI note number, which makes sense: there are 128 MIDI Controller numbers and 128 MIDI Note numbers. So click the pull-down menu and set this value to 36 to select the General MIDI Kick drum note number: We'll show you how to set Pad 2 to the Snare drum note number in section 5.1.3.2.



5.1.3.2 Select the MIDI note number: Snare

Setting Pad 2 to trigger the snare is done the same way, only by choosing a different MIDI note number (38 in this case):



So now you're ready to lay down the groove for your song: You have Pads 1 and 2 set to play the Kick and Snare, and Pads 7 and 8 set to Stop and Start the song.

5.1.4 Assign a Pad to toggle a MIDI CC # between two values

One popular musical effect these days is to take an audio loop, filter it heavily for certain sections of a song, and switch it back to the full-open sound later in the song. You can pre-configure one of the ORCA PAD 48 pads to send those commands to a filter plug-in that should be readily available in your DAW software. We'll use Pad 6 for this example. Select it and then use the pull-down Mode menus to select "Switched" and "Toggle":

Selected Control Parameters

Pad #6 Channel: Global

CC Number 1 Value 0

Mode: Switched Mode Option: toggle

These settings will allow you to send two different values of a particular MIDI CC number each time you press the pad.

There are a couple of MIDI CC numbers that have been assigned the task of controlling filter brightness (CC# 74) or harmonic content (CC# 71). We'll use CC# 74 for this example. Click on the CC number field and select the Brightness controller number as shown:

Selected Control Parameters

Pad #6

CC Number 74

Next we'll set some minimum and maximum values that might work (adjust them to suit the audio source):

Selected Control Parameters

Pad #6 Channel: Global

CC Number 74 Value 0

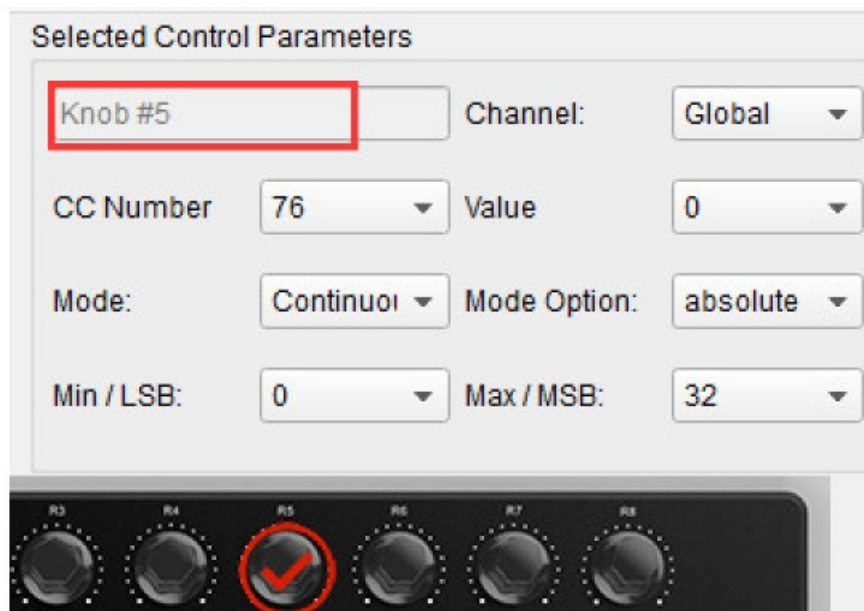
Mode: Switched Mode Option: toggle

Min / LSB: 78 Max / MSB: 127

The first press of Pad 6 will send a CC# 74 command with a value of 78, which will close the filter down part way but still let a lot of the audio pass through. The second press of Pad 6 will send a value of 127, opening the filter completely. Note: Be sure to check the MIDI Channel assignment to make sure it matches that of the receiving device.

5.1.5 Assign an Encoder to control a MIDI CC # between two values

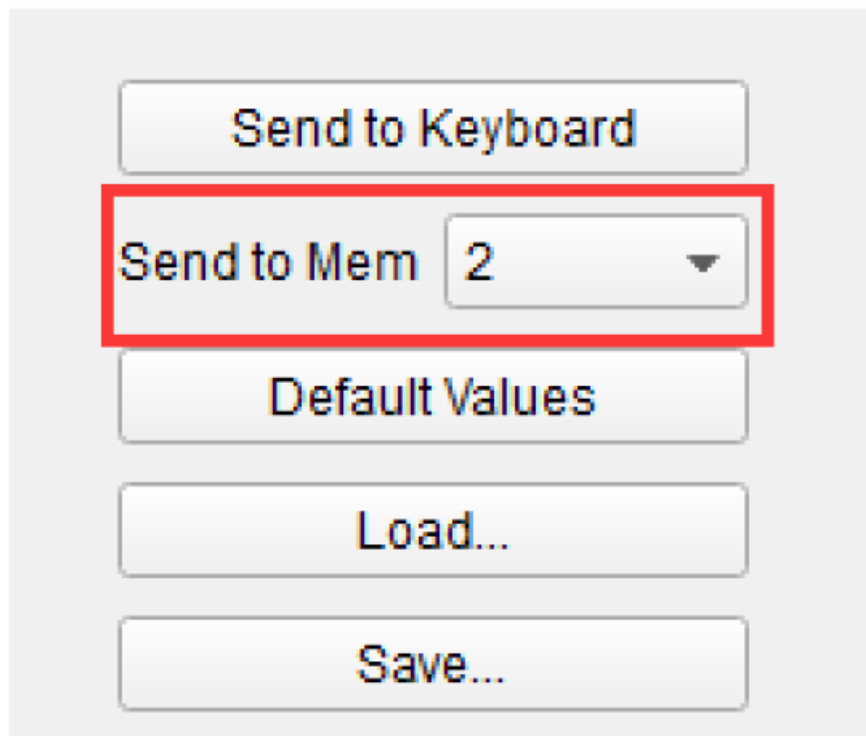
The encoders are assignable using the same techniques described for the pads. Let's give a quick example of an interesting use: setting the rate of an LFO so it operates only within a certain range.



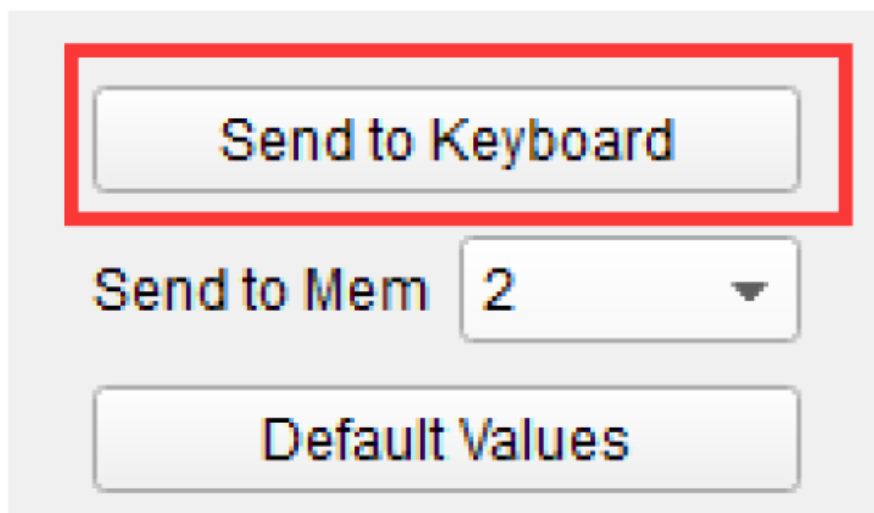
Looking at the picture above we see familiar information: Encoder 5 has been selected. It is assigned to the Global MIDI channel; you can specify any MIDI channel from 1-16 or leave it on the Global channel. Its Mode is set to Continuous, which means it will transmit a MIDI Continuous Controller number when it is turned. The second Mode field is set to Absolute, which means it will transmit in a linear fashion from fully counter-clockwise to fully clockwise. The CC number field shows CC# 76, the MIDI CC # that has been assigned to control Vibrato Rate. The Min / LSB and Max / MSB fields are set in such a way as to limit Encoder 5 to operate only within a certain range. To summarize, the settings seen above mean that Encoder 5 will control the Vibrato Rate of the target device, sweeping it between the values of 10 and 32 only. The vibrato will not become too fast, nor will it become too slow. Naturally, you can choose settings that are appropriate for the MIDI device you are using. Note: Some devices may not use standard MIDI controller assignments. Refer to the documentation for your device to determine what settings to use for each purpose.

5.1.6 Save the changes to a Preset

So let's review what we've done in section 5.1 so far: The pads have been set up to play kick and snare, toggle the filter settings, and start/stop the song; one of the encoders is controlling the vibrato rate, and the Mod strip is controlling Aftertouch. Not bad! There's a lot more ORCA PAD 48 can do, but that's a good start. So the next thing to do is make sure this configuration is available when you want it. To do that, you need to save these settings as a group into one of the eight memory locations in the ORCA PAD 48. The upper right-hand section of the MIDI Control Center software has a button called "Send to Keyboard". Right below that is a pull-down menu that allows you to specify which of the ORCA PAD 48's eight memory locations will be the repository for the Preset you've created. Before clicking the top button, select a location you know is available. We'll use memory location #2 for this example:

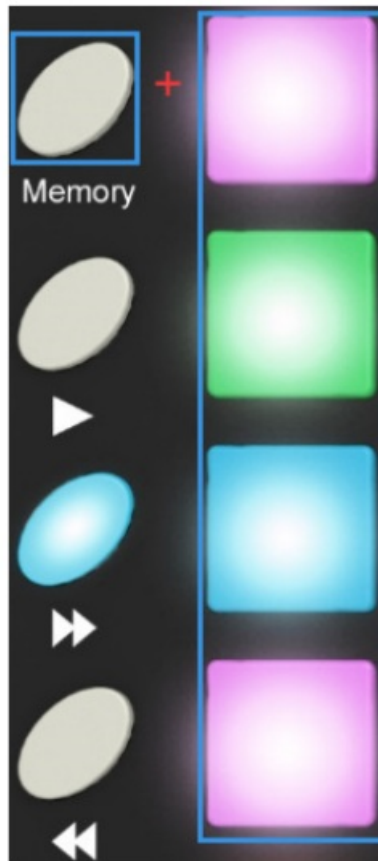


Select #2 in the drop-down list as pictured above. Once you're sure where the preset will be stored, click the "Send to Keyboard" button:



5.1.7 Recalling a Preset / Switching between Presets

Once you've created a couple of presets you can switch between your personalized configurations very quickly. This is as simple as it can be: simply hold the Memory button and press one of the 4 pads as shown in the picture below.



In the picture above the combination of the Memory button and Pad, 2 will select Preset #2 from the ORCA PAD 48 preset memory locations.

To switch from Preset #2 to Preset #1, hold Memory again and press Pad 1 instead.

5.2 Select the Backlit RGB Color of 48 Pads

Use the ORCA PAD 48 Software Editor to select the backlit RGB color of 48 pads. You can download the ORCA PAD 48 Software Editor from the WORLDDE website www.worldde.com.cn. Press the pad and the red circle button  will appear on that, then select the color range No. for CR, CG and CB. Press the "Send to Keyboard" to send the parameters to the ORCA PAD 48 and then press the OK button to confirm. The color range is from 0 to 127 for each one.

Reference RGB No. for some colors:

COLOR	R.	G.	B.
WHITE	127	127	127
BLACK	0	0	0
RED	127	0	0
GREEN	0	127	0
BLUE	0	0	127
CYAN	0	127	127
MAGENTA	127	0	127
YELLOW	127	127	0
ORANGE	127	82	0

Appendix

Appendix A- Toxic or Hazardous Substances and Elements

Part Number, Name and Description	Toxic or Hazardous Substances and Elements					
	Pb	Hg	Cd	Cr(VI))	PBB)	PBDE)
PCB	o	o	o	o	o	o
PCBA Welding Spot	o	o	o	o	o	o
Components	o	o	o	o	o	o
Metal Parts	o	o	o	o	o	o
Plastic and Polymeric parts	o	o	o	o	o	o
Paper Accessory	o	o	o	o	o	o
Power Cord	o	o	o	o	o	o

○ Indicates that this toxic or hazardous substance contained in all the homogeneous materials for this part, according to EIP-A, EIP-B, EIP-C is below the limit requirement in SJ/T 11364.

× Indicates that this toxic or hazardous substance contained in all the homogeneous materials for this part, according to EIP-A, EIP-B, EIP-C is above the limit requirement in SJ/T 11364.

(Enterprises may further provide in this box technical explanation for marking "X" based on their actual conditions.)

Specifications

Connectors: USB connector

Power supply: USB bus power mode

Current consumption: 100 mA or less

Dimensions (W x D x H): 256x256x36mm

Weight: 840g

Included items: USB cable, USB power cord, MIDI to 3.5 audio cable, Owner's manual

*Specifications and appearance are subject to change without notice.

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LTD HANGZHOU WORLDE MUSIC ELECTRONIC CO., LTD
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Documents / Resources



WORLDE ORCA PAD48
MIDI Controller User's Manual

[WORLDE ORCA PAD48 MIDI Controller](#) [pdf] User Manual

1616047193477297, PAD48, ORCA PAD48 MIDI Controller, ORCA PAD48, MIDI Controller

References

- [HANGZHOU BLUE WHALE MUSIC TECHNOLOGY-](#)

[Manuals+](#)