Worlde Panda MINIc

MIDI Controller User’s Manual

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Trade Marks

Note: There's no difference between the models Panda MINI and Panda MINIc except the RGB backlights for the 8 trigger pads as Panda MINI is only with red led back lights for the 8 pads, so here all the instructions are based on Panda MINIc.

1. Introduction

Thank you for purchasing the WORLDE Panda MINIc USB MIDI controller. Panda MINIc is a high quality, feature-packed controller which includes all the essentials to start making music. To help you get the most out of your new instrument, please read this manual carefully.

Your Panda MINIc midi controller will not make any sound unless it is connected to a computer or other external MIDI gear. This is because the Panda MINIc 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.

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

2. Features

- Four banks of 8 high quality velocity & pressure sensitive performance pads with RGB backlit, for 32 total, can be assigned easily as MIDI notes, control change switches.
- 25 velocity-sensitive keys that can transmit note messages or control change messages, with 3 velocity curve and one constant velocity.
- 4 assignable control knobs that can transmit control change messages.
- 4 assignable control sliders that can transmit control change messages.
- 4 banks for different settings.
- Pitch and modulation buttons.
- [OCTAVE DOWN]/[OCTAVE UP] buttons.
- Program change button.
- Transpose functions.
- USB interface, adaptable to USB 2.0(FULL SPEED). Power supplied by USB.
- Compatible with Win11/10/8/7/XP/Vista and Mac OSX or greater.
- Drive free and hot-plug supported.
- Perfect integration with DAWs (such as Ableton Live, Bitwig and so on) for both production and performance.
- Edited by the Panda MINIc Software Editor which could be downloaded from www.worlde.com.cn.

3. Getting Started

3.1 Panda MINIc Overview

3.1.1 Top Panel Overview

3.1.2 Side Panel Overview

Control Definitions

1. Trigger pads
2. Keys
3. Knobs
4. Sliders
5. [OCTAVE DOWN]/ [OCTAVE UP] buttons
6. [PITCH DOWN]/ [PITCH UP] buttons
7. Bank button
8. Program change button
9. CC Mode button
10. Modulation button
11. LED indicator
12. USB connector

3.2 Setup

If you intend to connect your Panda MINIc to a computer or mobile devices, please read sections 3.2 to 3.4 first.

3.2.1 Minimum System Requirements

If you are using your Panda MINIc with a computer, the following minimum system requirements apply:

Windows	Mac OS
i3 1.2GHz or higher	Macintosh i3*1.2GHz/P4*1.2GHz or higher
(CPU requirement may be higher for laptops)	(CPU requirement may be higher for laptops)
1G RAM	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)	

WORLDE suggests you also check the minimum system requirements for your software, as they may be greater than the above.

USB hubs are not supported. WORLDE suggests that you connect directly to one of your computer’ s built in USB ports.

3.2.2 Using The Panda MINIc With Your Software

When installed, the Panda MINIc appears as a simple MIDI device with one input port and one output port. You should select the listed USB MIDI Controller input port as the MIDI input device in your software. Once this is set, your software should be able to receive notes and controller data from the Panda MINIc .

The port name is defined as WORLDE when connecting to USB port.

It will appear as WORLDE in the Device Manager.

3.3 Connecting with a Computer

Panda MINIc is bus-powered, connect it to your computer with a USB cable will have that turned on.

3.4 Connecting to Mobile Devices

3.4.1 iOS

To use your Panda MINIc with an iOS device, connect it using Apple's Lightning to USB 3 Camera Adapter.

3.4.2 Android

To use your Panda MINIc with an Android device, we suggest using a USB OTG as the USB adapter.

4. Parts and Their Functions

4.1 Trigger pads

Panda MINIc has four banks of 8 high quality velocity & pressure sensitive performance pads with RGB backlit, for 32 total, which can be assigned easily as MIDI notes or control change buttons. 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 assign the pads and adjust the RGB color of the pads. For example: The pads can be assigned to trigger up to 32 particular MIDI notes (drums, stabs, bass notes, whatever). When the pads assigned to MIDI notes, they will send notes message which work just as 32 keys at this moment. The default is sending the note message on Channel 10. When a pad is assigned to control change, it will send control change message, so it won’ t produce any sound when pressed in this mode. Please refere to the software editor instruction for more details on the assignment of the 8 trigger pads.

4.2 Keyboard

There are twenty-five velocity-sensitive keys that can transmit note messages. With the software editor it’ s possible to adjust midi note message and transpose for these keys, also with the octave buttons, you can adjust the octave acquiescently. When CC mode is on, the keys will transmit control change messages. Please refere to the software editor instruction for more details on the assignment of the 25 keys.

4.3 Knobs/Sliders

These knobs/sliders can transmit control change messages. The four banks of 4 knobs/sliders (16 for total) can be assigned to control any editable parameter on the selected device. Each knob/slider can be used to send continuous control data to a desktop audio workstation.

There are 135 MIDI controller messages that are used for controlling the MIDI-adjustable parameters in your software (0 to 127 is the standard MIDI control parameter, 128 to 134 is the special MIDI control parameter). Examples of these controllable parameters include volume, pan, expression, reverb, chorus and portamento.

The 4 assignable knobs/sliders on your Panda MINIc is able to send any of the 128 standard MIDI controller messages to control such parameters. Please note that in order for these effects to work, the device you are sending to must be able to receive these messages. A full list of these control messages is given in Appendix A.

For example, you may want to set the Knob 1 to control the channel volume. This is done by assigning controller 7 to the Knob 1.

Examples of other popular effects are listed in the table below. (Please consult Appendix A for the full list.)

Effect	Control
Modulation	1
Volume	7
Pan	10
Expression	11
Reverb depth	91
Chorus depth	93

4.4 [OCTAVE DOWN] / [OCTAVE UP] button

The [◂] button and the [▸] button can be used to adjust the octave acquiescently. The pitch will shift downward by one octave each time you press the [◂] button and the pitch will shift upward by one octave each time you press the [▸] button.

4. 5 Bank button

The Panda MINIc has four banks. When bank button is on, you can use the [◂] button and the [▸] button to switch the four banks. A "bank" is a set of parameter assignments for the controllers (pads and knobs, etc.). You can use Worlde Panda MINIc Editor to change the assignment of each controller.

Press this button for 5 seconds to reset the device and the 8 pads will be lighting for a while after reset made.

4.6 Program Change button

When program button is on, you can use the [◂] button and the [▸] button to change the program.

4.7 [PITCH DOWN] / [PITCH UP] button

The [PITCH DOWN] button and the [PITCH UP] button can be used to send a note' s pitch up or down in cents.

4.8 Modulation button

The MOD button is used to introduce some sort of vibrato effect.

4.9 CC Mode button

This button will toggle the CC mode on or off. When CC mode is on the 25 keys will transmit control change messages.

4.10 LED indicator

These indicate the keyboard’ s shift status for octave, program or bank buttons.

4.11 USB connector

Connect the Panda MINIc to your computer with a USB cable via this port. The computer’ s USB port provides power to your Panda MINIc . This connection is also used to send and receive MIDI data to and from your computer.

5. Using The Panda MINIc With Your DAW

A MIDI sequencer will allow you to record, play back, store and edit MIDI data. Although hardware sequencers exist, we will focus on the more commonly used software sequencers in this manual. Examples of popular DAW are CubaseTM, LogicTM, Ableton Live TM and so on, although there are many different sequencing applications available for your computer. In order to use your Panda MINIc with your sequencer, you need to set up the sequencer software so that your Panda MINIc can be recognized as your DAW’ s MIDI input device. You need to choose a MIDI output device that is capable of making sound when MIDI data is sent to it. This may be a soundcard on your computer, a VST instrument or a sound module connected to a MIDI port which is in turn connected to your computer. Please consult your sequencer’ s user manual for more information on how this is done. In this manual, section 3.2.2 “Using The Panda MINIc With Your software” details how your Panda MINIc will appear in the device listing of your sequencer.

With your Panda MINIc set up to communicate with the sequencer, data will go into the sequencer and will be routed to a virtual synthesizer within the sequencer software or sent to an external sound module via a MIDI output port. The virtual synthesizer or external sound module will turn the MIDI data into audible sounds. You can then record the incoming MIDI data and edit your performance using your sequencer. We will have some more detailed MIDI mapping operations for different DAWs provided separately.

6. Appendices

APPENDIX A- ASSIGNABLE CONTROLLER LIST

CONTROLLER NO.	DEFINITION	INITIAL VALUE	VALUE RANGE
0	Bank Select MSB	0	0-127
1	Modulation MSB	0	0-127
2	Breath MSB	127	0-127
3	Controller	0	0-127
4	Foot Controller MSB	127	0-127
5	Portamento time MSB	0	0-127
6	Data Entry MSB	2	0-127
7	Channel Volume MSB	100	0-127
8	Balance MSB	64	0-127
9	Controller	0	0-127
10	Panpot MSB	64	0-127
11	Expression MSB	127	0-127
12	Effect Control 1 MSB	0	0-127
13	Effect Control 2 MSB	0	0-127
14-31	Controller	0	0-127
32	Bank Select LSB	0	0-127
33	Modulation LSB	0	0-127

34	Breath LSB	127	0-127
35	Controller	0	0-127
36	Foot Controller LSB	127	0-127
37	Portamento time LSB	0	0-127
38	Data Entry LSB	0	0-127
39	Channel Volume LSB	127	0-127
40	Balance LSB	64	0-127
41	Controller	0	0-127
42	Panpot LSB	64	0-127
43	Expression LSB	127	0-127
44-63	Controller	0	0-127
64	Sustain	0	0-127
65	Portamento	0	0-127
66	Sostenuto	0	0-127
67	Soft Pedal	0	0-127
68	Legato FootSwitch	0	0-127
69	Hold 2	0	0-127
70	Sound Controller	64	0-127
71	Resonance	64	0-127
72	Release Time	64	0-127
73	Attack Time	64	0-127
74	Cutoff	64	0-127
75	Decay Time	0	0-127
76	Vibrato Depth	64	0-127
77	Vibrato Depth	64	0-127
78	Vibrato Depth	64	0-127
79	Sound Controller	64	0-127
80-83	Controller	0	0-127
84	Portamento Control	0	0-127
85-90	Controller	0	0-127
91	Reverb	40	0-127
92	Effects	0	0-127
93	Chorus	0	0-127
94	Effects	0	0-127
95	Effects	0	0-127
96	RPN Increment	0	0-127
97	RPN Decrement	0	0-127
98	NRPN LSB	0	0-127
99	NRPN MSB	0	0-127
100	RPN LSB	0	0-127
101	RPN MSB	0	0-127

102-119	Controller	0	0-127
120	All Sound Off	0	0-127
121	Reset All Controllers	0	0-127
122	Local Control	0	0-127
123	All Notes Off	0	0-127
124	OMNI Off	0	0-127
125	OMNI On	0	0-127
126	Mono	0	0-127
127	Poly	0	0-127
128	Pitch Bend Sensitivity（RPN）	2	0-127
129	Channel Fine Tuning（RPN）	64	0-127
130	Channel Coarse Tuning（RPN）	64	0-127
131	Modulation Depth Range（RPN）	64	0-127
132	Vibrato Rate（NRPN）	64	0-127
133	Vibrato Depth（NRPN）	64	0-127
134	Vibrato Delay（NRPN）	64	0-127
135	Filter Cutoff Frequency（NRPN）	64	0-127
136	Filter Resonance（NRPN）	64	0-127
137	EQ Low Gain（NRPN）	64	0-127
138	EQ High Gain（NRPN）	64	0-127
139	EQ Low Frequency（NRPN）	64	0-127
140	EQ High Frequency（NRPN）	64	0-127
141	EG Attack Time（NRPN）	64	0-127
142	EG Decay Time（NRPN）	64	0-127
143	EG Release Time（NRPN）	64	0-127
144	Polyphonic key pressure	100	0-127
145	After touch	100	0-127
146	Pitch Bend	64	0-127
147	Master Volume	100	0-127
148	Start（MTC）	-	-
149	Continue（MTC）	-	-
150	Stop（MTC）	-	-
151	Reset（MTC）	-	-
152	Program	0	0-127
153	Global Channel	0	0-15
154	Octave	0	-3~3
155	Transpose	0	-12~12
156	Tempo	100	20-250
157	Keyboard Curve	0	0-4
158	Pedal A Curve	64	1-127

Appendix B- 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	○	○	○	○	○	○
PCBA Welding Spot	○	○	○	○	○	○
Components	○	○	○	○	○	○
Metal Parts	○	○	○	○	○	○
Plastic and Polymeric parts	○	○	○	○	○	○
Paper Accessory	○	○	○	○	○	○
Power Cord	○	○	○	○	○	○

○: 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.)

Appendix C-Note Value and The Corresponding Numerical Number

Note	NO.	Note	NO.	Note	NO.	Note	NO.	Note	NO.	Note	NO.	Note	NO.	Note	NO.
C-1	0	F0	17	Bb 1	34	Eb 3	51	G#4	68	C#6	85	F#7	102	B8	119
C#-1	1	F#0	18	B1	35	E3	52	A4	69	D6	86	G7	103	C9	120
D-1	2	G0	19	C2	36	F3	53	Bb 4	70	Eb 6	87	G#7	104	C#9	121
Eb-1	3	G#0	20	C#2	37	F#3	54	B4	71	E 6	88	A7	105	D9	122
E-1	4	A0	21	D2	38	G3	55	C5	72	F6	89	Bb 7	106	Eb 9	123
F-1	5	Bb 0	22	Eb 2	39	G#3	56	C#5	73	F#6	90	B7	107	E9	124
F#-1	6	B0	23	E2	40	A3	57	D5	74	G6	91	C8	108	F9	125
G-1	7	C1	24	F2	41	Bb 3	58	Eb 5	75	G#6	92	C#8	109	F#9	126
G#-1	8	C#1	25	F#2	42	B3	59	E5	76	A6	93	D8	110	G9	127
A-1	9	D1	26	G2	43	C4	60	F5	77	Bb 6	94	Eb 8	111		
Bb-1	10	Eb 1	27	G#2	44	C#4	61	F#5	78	B6	95	E8	112		
B-1	11	E1	28	A2	45	D4	62	G5	79	C7	96	F8	113		
C0	12	F1	29	Bb 2	46	Eb 4	63	G#5	80	C#7	97	F#8	114		
C#0	13	F#1	30	B2	47	E4	64	A5	81	D7	98	G8	115		
D0	14	G1	31	C3	48	F4	65	Bb 5	82	Eb 7	99	G#8	116		
Eb 0	15	G#1	32	C#3	49	F#4	66	B5	83	E7	100	A8	117		
E0	16	A1	33	D3	50	G4	67	C6	84	F7	101	Bb 8	118		

Appendix D- General MIDI Instruments-Program Change Numbers

Piano	Bass	Reed	Synth Effects
0 Acoustic Grand Piano	32 Acoustic Bass	64 Soprano Sax	96 SFX Rain
1 Bright Acoustic Piano	33 Fingered Bass	65 Alto Sax	97 SFX Soundtrack
2 Electric grand Piano	34 Electric Picked Bass	66 Tenor Sax	98 SFX Crystal
3 Honky Tonk Piano	35 Fretless Bass	67 Baritone Sax	99 SFX Atmosphere
4 Electric Piano 1	36 Slap Bass 1	68 Oboe	100 SFX Brightness
5 Electric Piano 2	37 Slap Bass 2	69 English Horn	101 SFX Goblins
6 Harpsichord	38 Syn Bass 1	70 Bassoon	102 SFX Echoes
7 Clavinet	39 Syn Bass 2	71 Clarinet	103 SFX Sci-Fi
Chromatic Percussion	Strings/Orchestra	Pipe	Ethnic
8 Celesta	40 Violin	72 Piccolo	104 Sitar
9 Glockenspiel	41 Viola	73 Flute	105 Banjo
10 Music Box	42 Cello	74 Recorder	106 Shamisen
11 Vibraphone	43 Contrabass	75 Pan Flute	107 Koto
12 Marimba	44 Tremolo Strings	76 Bottle Blow	108 Kalimba
13 Xylophone	45 Pizzicato Strings	77 Shakuhachi	109 Bag Pipe
14 Tubular bells	46 Orchestral Harp	78 Whistle	110 Fiddle
15 Dulcimer	47 Timpani	79 Ocarina	111 Shanai
Organ	Ensemble	Synth Lead	Percussive
16 Drawbar Organ	48 String Ensemble 1	80 Syn Square Wave	112 Tinkle Bell
17 Percussive Organ	49 String Ensemble 2	81 Syn Sawtooth Wave	113 Agogo
18 Rock Organ	50 Syn Strings 1	82 Syn Calliope	114 Steel Drums
19 Church Organ	51 Syn Strings 2	83 Syn Chiff	115 Woodblock
20 Reed Organ	52 Choir Aahs	84 Syn Charang	116 Taiko Drum
21 Accordion	53 Voice Oohs	85 Syn Voice	117 Melodic Tom
22 Harmonica	54 Syn Choir	86 Syn Sawtooth Wave	118 Syn Drum
23 Tango Accordion	55 Orchestral Hit	87 Syn Brass & Lead	119 Reverse Cymbal
Guitar	Brass	Synth Pad	Sound Effects
24 Nylon Acoustic	56 Trumpet	88 New Age Syn Pad	120 Guitar Fret Noise
25 Steel Acoustic	57 Trombone	89 Warm Syn Pad	121 Breath Noise
26 Jazz Electric	58 Tuba	90 Polysynth Syn Pad	122 Seashore
27 Clean Electric	59 Muted Trumpet	91 Choir Syn Pad	123 Bird Tweet
28 Muted Electric	60 French Horn	92 Bowed Syn Pad	124 Telephone Ring
29 Overdrive	61 Brass Section	93 Metal Syn Pad	125 Helicopter
30 Distorted	61 Syn Brass 1	94 Halo Syn Pad	126 Applause
31 Harmonics	62 Syn Brass 2	95 Sweep Syn Pad	127 Gun Shot

Appendix E - General MIDI Drums-Note assignments

MIDI Note	Drum Sound	MIDI Note	Drum Sound	MIDI Note	Drum Sound
35	Acoustic Bass Drum	52	Chinese Cymbal	69	Cabasa
36	Bass Drum 1	53	Ride Bell	70	Maracas
37	Side Stick	54	Tambourine	71	Short Whistle
38	Acoustic Snare	55	Splash Cymbal	72	Long Whistle
39	Hand Clap	56	Cowbell	73	Short Guiro
40	Electric Snare	57	Crash Cymbal 2	74	Long Guiro
41	Low Floor Tom	58	Vibraslap	75	Claves
42	Closed Hi-Hat	59	Ride Cymbal 2	76	Hi Wood Block
43	High Floor Tom	60	Hi Bongo	77	LowWood Block
44	Pedal Hi-Hat	61	Low Bongo	78	Mute Cuica
45	Low Tom	62	Mute Hi Conga	79	Open Cuica
46	Open Hi-Hat	63	Open Hi Conga	80	Mute Triangle
47	Low-Mid Tom	64	Low Conga	81	Open Triangle
48	Hi-Mid Tom	65	High Timbale		
49	Crash Cymbal 1	66	Low Timbale		
50	High Tom	67	High Agogo		
51	Ride Cymbal 1	68	Low Agogo		

7. Specifications

Connectors: USB connector (mini B type)

Power supply: USB bus power mode

Current consumption: 100 mA or less

Dimensions (W x D x H): 12.6 x 7.5 x 1.6 inches / 320 x 190 x 40 mm

Weight: 28 oz / 800 g

Included items: USB cable, Quick start

***Specifications and appearance are subject to change without notice.**

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