MINICONTROL

Owner's Manual

Preface

Congratulations on purchasing the MINICONTROL master MIDI controller keyboard. It is one of the finest products of its kind, made after extensive research into what customers require from a MIDI Controller.

When using your MINICONTROL in conjunction with a computer and appropriate music software, you will be able to discover the wonderful world of Computer Music, with a set of complete musical instruments from your sound card or workstation.

This manual is written to help you become familiar with the powerful features of the MINICONTROL . Please read the manual carefully to discover all the features of your MINICONTROL. After reading the manual, you will have a clear understanding of how to transmit different MIDI messages to other instruments and equipment. For ease of use of MIDI implementation, we strongly recommend you to have the manual at hand when you are using the keyboard, especially if you are new to the world of MIDI.

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Main Feature

*The MINICONTROL MIDI master controller keyboard provides 25dynamic Piano keys, which can draw 5V DC power directly from your PC sound card. Therefore, you don't need an external power-supply or batteries to activate your instrument when used with a PC.

* MINICONTROL provides an optional 15 pin 5V DC adapter to connect to other MIDI devices or an Apple Macintosh.

* MINICONTROL can also use 6 x AA size battery for portability.

*To set up the MIDI connection of your MINICONTROL to your PC's sound card, your MINICONTROL comes with an unique 15 pin to 15 pin MIDI adapting cable. This cable connects your MINICONTROL keyboard to your PC sound card's Joystick port, which makes it simple to expand your system.

*The MINICONTROL provides a MIDI OUT socket for connecting to other MIDI devices such as sound modules or synthesisers as a second MIDI OUT when you use 15 pin to 15 pin MIDI adapting cable to connect to PC.

*There is also a socket for an optional sustain -footswitch.

*Although the MINICONTROL has no built-in sound capabilities, it offers a great variety of useful MIDI functions.

- Something you should know before using the MIDI Functions -

MIDI is the acronym for ***Musical Instrument Digital Interface***, which makes all digital musical instruments equipped with this standardised interface capable of exchanging their MIDI data or “talk to each other”!

To explain how MIDI works on your instrument in more detail, the following illustrations will outline the MIDI functions of the **miniCONTROL**, which allow you to connect the keyboard to other MIDI instruments. The versatile MIDI capability of the **miniCONTROL** will offer you tremendous power in a MIDI environment.

Using the MIDI Functions:

1. Connecting the keyboard to other MIDI instruments:

   To transmit MIDI data from your keyboard to other professional MIDI instruments, please purchase a MIDI cable and use it to connect the MIDI OUT jack of your MINICONTROL to the MIDI IN jack of the other instrument. Make sure that the MIDI "transmit" channel on your MINICONTROL matches the MIDI "receive" channel of the other instrument.

2. Please refer to the following diagram for the MIDI connection:

>>insert graphic of connectors.jpg

Default Setting of The MINICONTROL

The MINICONTROL will always select the following values for their parameters when the power is turned on.

*Transmit MIDI Channel no. 1.

*Default Octave will be from C2(36) to C4(62)

*Default After Touch value will be 0

*Default Velocity value will be 0

*Default Reverb Depth value will be 64

*Default Pan Pot value will be 64

*Default Volume value will be 127

*Default CC Data value will be 0

*Default CC no. value will be 0

*Default Control Change (CC-00=0, CC-32=0) message will be transmitted.

*Default Program Change (PG=1) message will be transmitted.

*Real-time Controller 1 - 8 on Midicontroller 10 - 18 each on Channel 1

Overall Diagram Preview:

Part A. Operation panel:

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1. Using the Pitch Bend Wheel:

The Pitch Bend wheel is used for raising or lowering the pitch of a voice during performance. The range of pitch values depends on the sound generator (sound card or module) being used. Please refer to the manuals of your devices for information on how to change the Pitch Bend range. To bend the pitch up, please move the wheel away from you. To bend the pitch down, please move the wheel towards you.

2. Using the Modulation Wheel:

It is very common to use the modulation wheel to change the intensity of effects: mainly Vibrato(pitch change), Tremolo (change the volume), and Modulation (change the tone). The Modulation wheel produces a vibrato effect shortly after the sound is generated. It is most effective for voice such as Saxophone Strings and Oboe.

3. Data Entry Slide:

This slide controller allows you to adjust the following parameters: Volume, Velocity, Chorus, Reverb, Pan pot, and Aftertouch directly from your keyboard .

4. MIDI / SELECT button:

Use this button to select different MIDI commands on certain keys from your keyboard.

miniCONTROL provides several groups of MIDI commands as follows:

a. MIDI Channels group :

Pressing the MIDI/SELECT button and then pressing the MIDI CHANNEL key allows you to select the transmitting channel for your keyboard. The default Channel is 1 when the keyboard's power is turned on. Pressing the MIDI/SELECT button, Ten Key 2 then the

MIDI/SELECT button changes the MIDI transmit channel from 1 to 2. You can use the Dataentry-Slider too.

b. Octave group:

By pressing the Octave key, you will shift the active keyboard range one octave higher, or lower. For example, if you want to change the octave 2 octaves down : Press Oktave Key twice .

c. Transposer Group:

Pressing the MIDI/SELECT button and the TRANSPOSE Key you increase or decrease the notes by halftones. If you want to transpose by 3 semitones: Press the MIDI/SELECT button and the ”#” key, (in the display you see 3 for three semitones) than press MIDI/SELECT to finish the change.

d. Reset key:

Pressing the MIDI/SELECT button and the Reset key will send out a message to return all external MIDI instruments to their default setting as well.

e. Control Change data entry by Numeric keypad:

miniCONTROL allows you to use the numeric keys to specify your Control Change DATA parameter instead of data entry slide. By pressing MIDI/SELECT button and CC data key & then the required

number and finally the Enter key to finish. For example, if you want to make Control Change 7 as value 123.

1) Press MIDI/SELECT button;
2) press CC No.(will be shown in display)
3) choose 7 on numeric keypad;
4) press enter key to specify Control Change as 7;
5) the display shows "---"
6) press CC DATA.(will be shown in display)
7) press number key 1, 2, and 3;
8) press enter key to specify value 123 then press MIDI/SELECT Button to finish this action.
9) For Velocitiy, Referb and Chorus Depht, Pan Pos,Volumen you only need to enter CC Data Value.

Please note for e.f.g.: after you press enter key the LED display will show --- to indicate that you pressed enter key and will not disappear until you press MIDI/SELECT button to finish your choice. After you press cancel key the LED display will show blank to indicate that you pressed cancel key and will not disappear util you press MIDI/SELECT button to finish your choice.

f. Program key:

Pressing MIDI/SELECT button and the Program key, then numeric keys then enter key, you can select any patch number between 1 to 128. For example, if you want to change voice to 67 (Tenor Sax):

Press MIDI/SELECT button and 67 on numeric keys, then enter key and MIDI/SELECT button again to finish this action.

5. Assignment of the 8 Real-time Controller:

In order to assign a Controller Knob to a MIDI Parameter (MIDI Controller) please follow these steps:

1. press MIDI select then SET CONTROLLER key (F3)
2. choice number of knob on ten key group (1 - 8) then press enter
3. assign controller number on ten key group (1-127) then press enter
4. assign act channel number on ten key group (1-16) then press enter
5. Finally, Press MIDI / select key again to finish assign knob.

Now you have assigned to one Control knob the MIDI Parameter and the MIDI Channel.

Repeat the same method for the other 8 Real-time Controller Knobs.

Part B. Rear Panel:

>>insert graphic of backpanel.jpg

1. **Sustain jack:**

This jack allows you to connect an optional Sustain Footswitch to the keyboard.

2. **MIDI OUT jack**:

This standard MIDI jack is used to send MIDI messages to another MIDI instrument (such as sound module).

3. **Midi / power port**:

This jack is used to connect the keyboard with sound card on the computer, to get power from your sound card and send MIDI messages directly to the sound card.

4. **Power switch:**

The 3-way power switch turns the keyboard's power to external 5V power or Battery or power off. The keyboard has a build in EE-Prom Store for saving all settings.

Specifications

Model: miniCONTROL

Keyboard	25 dynamic keys.
Simultaneous Note output (Reverse priority)	10 notes
Control switches	MIDI Channel Reset Transpose -,+ Program Change CC-No.(Generic CC Assignment) CC-Data Data Entry Velocity Assignment, Data Entry Reverb Send Level Assignment, Data Entry Chorus Send Level Assignment, Pan Pot Assignment(CC-10), Volume Assignment(CC-07) CC-Data Controller Knob Assignment (set controller) Numerical Keys x10 Enter Cancel Octave Up, Down 8 real time controller knobs Pitch Bender Wheel, Modulation Wheel, Data Entry slide
External Control Terminals	Keyboard MIDI Out (DIN), Sustain, Game port MIDI DC in Power SW.
Display	7 segment LED x 3
Dimensions	42x23.7x 7(cm)
Weight	1.5 kg
Power source	DC 9V Game port Battery

***Design and specifications subject to change without notice**

***No liability for printing mistakes**

MIDI Implementation Chart

Model: **MINICONTROL**

Function		Transmitted	Recognised	Remarks
Basic Channel	Default	1	x	
	Changed	1-16	x	
Mode	Default	Mode 3	x	
	Messages	x	x	
	Altered	**********	x	
Note Number :		12-108	x	**With Octave Change**
	True Voice	**********	x	
Velocity	Note ON	o	x	
	Note OFF	x	x	
After	Key's	x	x	
Touch	Ch's	x	x	
Pitch Bender		o	x	
Control Change		O	x	
Prog		1-128	x	
Change	:True #	0-127	x	
CC-00, CC-32				
System Exclusive		x	x	
System	:Song Pos	x	x	
	:Song Sel	x	x	
Common	:Tune	x	x	
System	:Clock	x	x	
Real Time	:Commands	x	x	
Aux Message	:Local ON/OFF	x	x	
	:All Notes OFF	o	x	**Send with Reset.**
	:Active Sense	o	x	
	:Reset	o	x	**Send with Reset.**
Notes:				

Mode 3 : OMNI OFF, POLY **o=Yes, x=No**