OWNER'S MANUAL

61U

MIDIPLUS

www.midiplus.com.tw

Contents

Preface

Thank you for your purchase of the MIDIPLUS 61U USB MIDI master controller keyboard. When using your MIDIPLUS 61U in conjunction with an USB equipped PC or Macintosh computer and appropriate music software to enter full range of MIDI note and controller information. Your MIDI Keyboard and computer are then turned into a set of complete musical workstation. This manual is written to help you become familiar with the powerful features of the MIDIPLUS 61U. Please read the manual carefully to find out what you can do with your MIDIPLUS 61U. After reading this manual, you should have a clear understanding of how to transmit different MIDI messages to other instruments and equipments. For this sake, we strongly recommend you to have the manual at hand when you are using the keyboard. Thus, you can find useful information quickly when you need it.

IMPORTANT SAFETY INFORMATION

Please kindly note that it is very important to read the following safety instructions first.

1. Keyborad should be kept off water or wet environment nearby like bathroom or swimming pool.

2. Keyborad should be kept off heating elements nearby like a radiator or similar,also don`t put keyboard in the places with high tempearture or direct sunshine.

3. Use the power supply that is declared in our Specification.

4. If you don`t use the keyboard for a long time,please plug power off.

5. Don`t let small or metal objects like a coin or paperclip fallen into the keyboard resulting in short circuit.

6. Do not open the keyboard, this is allowed by qualified technicians only.

7. Do not let keyboard switched on all the time.

8. Children should be informed about these secure information by an adult, if children are too young to understand this information.

9. Electromagnetic fields like places near of a radio,audio amplifiers or televison can be disturbing. Enough distance is important.

10. For cleaning,never use petrol, alcohol or solvent,resulting in damaging of the housing. Before using a dry or little wet rag for cleaning,please unplug power supply or USB connector to avoid electrical shock.

11. Never unplug the keyboard when the power supply is powered.

12. Don`t throw the Keyboard, and also never let them crash down.

13. When it will be thunderstorm,please unplug all connectors.

Features

- WHAT'S NEW

- The **MIDIPLUS 61U** MIDI master controller keyboard is based on a powerful platform. It use an ARM7 chip to process the MIDI, bring you a nice feeling.

USB 2.0 full-speed, powerful precessing capability, small latency time.

- MAIN FEATURE

The **MIDIPLUS 61U** controller keyboard provides 61 dynamic keys, it can be operated on receiving power directly from your USB Port on the computer. Therefore, you don't need any external power-supply to activate your instrument.

The **MIDIPLUS 61U** May be used as a completely portable standalone controller when powered by a 9VDC external power supply.

For setting up MIDI connection of your **MIDIPLUS 61U** with PC, your **MIDIPLUS 61U** comes with an a A- B USB adapting cable for connecting your keyboard's USB port to PC USB port, which makes you to expand your system easily.

The **MIDIPLUS 61U** provides two MIDI OUT jacks for sending MIDI to external devices via computer or as standalone MIDI controller

There is a socket for an optional sustain-footswitch.

Although the **MIDIPLUS 61U** has no built-in sound capabilities, it offers various useful MIDI functions.

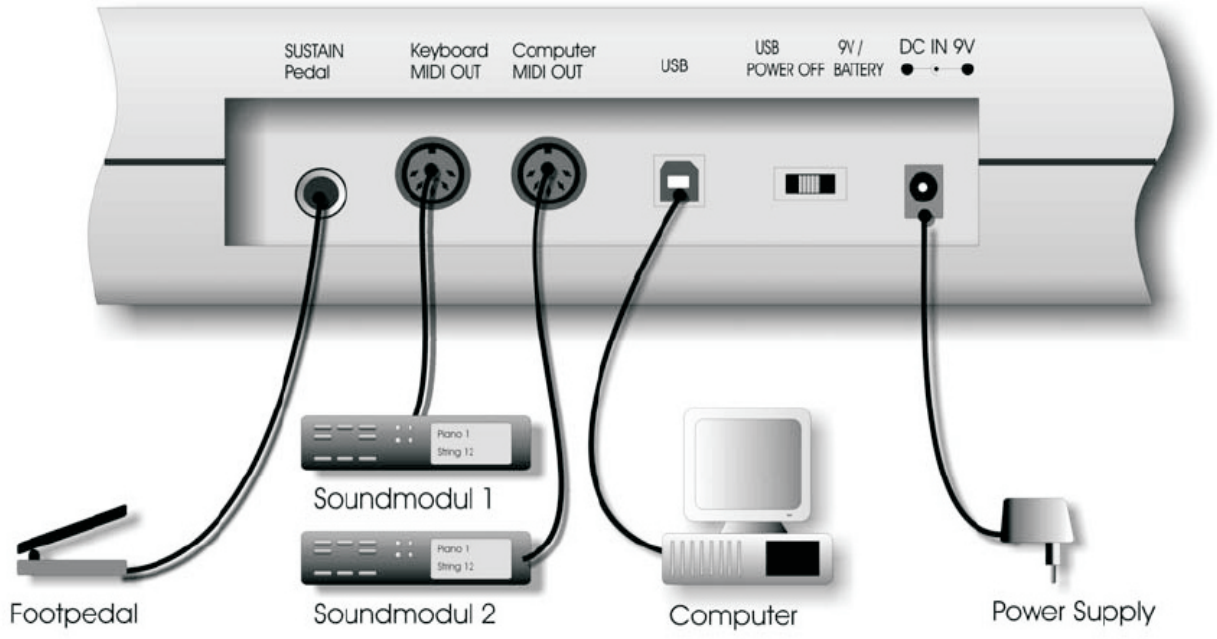
- WHAT`S THE MIDI FUNCTIONS

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 **MIDIPLUS 61U,** which allow you to connect the keyboard to other MIDI instruments. The versatile MIDI capability of the **MIDIPLUS 61U** will offer you tremendous power in a MIDI environment.

- HOW TO USE THE MIDI FUNCTIONS

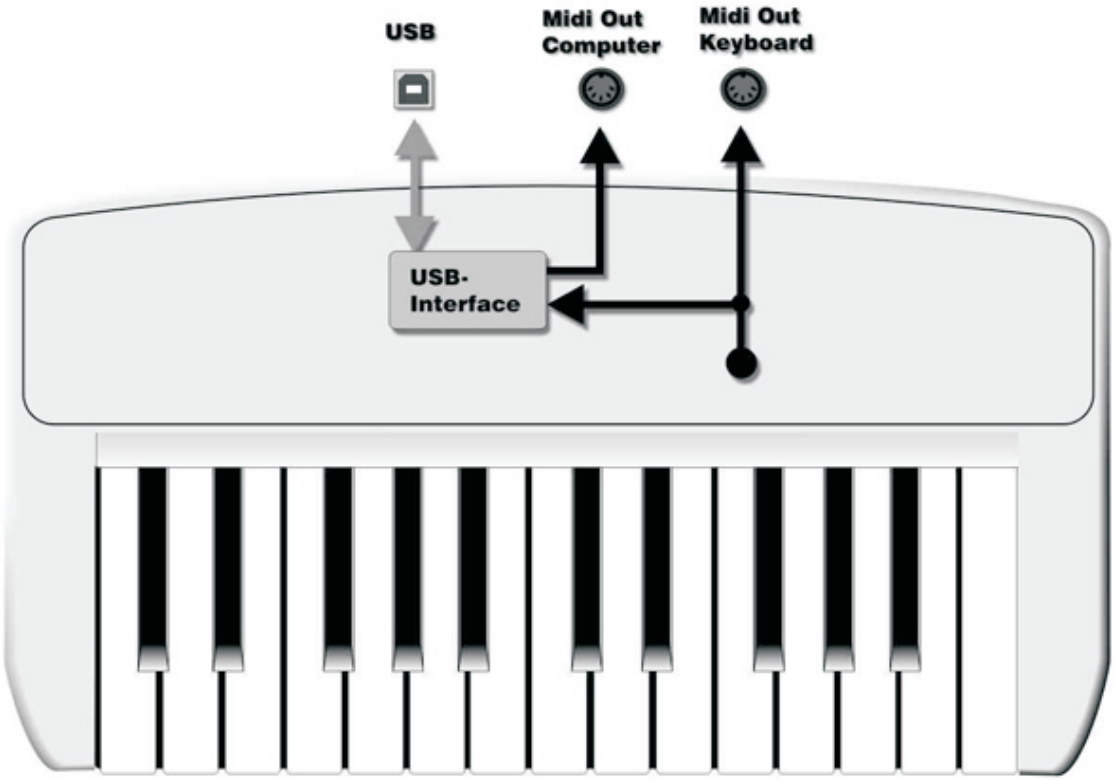
1. Connecting the keyboard to other MIDI instruments:
To transmit MIDI data from your keyboard to other professional MIDI instruments, please purchase a MIDI cable and use it to connect the MIDI OUT jack of your **MIDIPLUS 61U** to the MIDI IN jack of the other instrument.Make sure that the MIDI “transmit” channel on your **MIDIPLUS 61U** matches the MIDI "receive" channel of the other instrument.

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



- Using the MIDI-Interface

The MIDPLUS 61U Keyboard has a build-in midi-interface, which transfers the midi data from the keyboard to the computer, but also from the computer to the midi-out at the keyboard. The booth midi-outs are separate usable, to control a sound expander or maybe an effect device. In your music program you can set the midi-out-port of the interface as the output of the keyboard, and also the input-port of the interface as the input of the keys of the keyboard. If the driver installation is correct, you can use the interface without problems.



Operation

MIDI / SELECT button

MIDI / SELECT button enable you to change keyboard from Edit Mode to Normal Mode or from Normal Mode to Edit Mode.

When press MIDI / SELECT button, it enter Edit Mode, Data Display shows SEL. That means you can choose a command to change setting.After press a relevant key of command and press "Enter" to complete setting, Data Display shows --- that means it is successful in changing setting.If Data Display shows Err that means invalid inputs,please input parameters again.

Please kindly note that saving Preset Group and Velocity Curve setting have been done via changing keyboard from Edit Mode to Normal Mode. MIDIPLUS 61U provides several groups of MIDI commands and here will show you how to concretely use them :

Pitch Bend Wheel

The Pitch Bend wheel is used for raising or lowering the pitch of a voice during performance. The range of pitch numeric value 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.

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.

Data Entry Slide

This controller is used to enter numeric value while editing and as an assigned CC controller while playing. In normal mode, This slide controller allows you to adjust Volume，Reverb, Pan pot and Aftertouch but Velocity. Here is to show you how to select one of Setting parameters.

For example, In normal mode, this slide controller is adjusting Volume and you want it to adjust Reverb. Here are operation steps:

e and you want it to adjust Reverb. Here are operation steps:

1.Press MIDI / SELECT button to enter Edit Mode.

2.Press key Reverb Depth.

3.Press MIDI / SELECT button again to confirm selection.

Now, Data Entry Slide is adjusting Reverb but Volume.

In Edit Mode, Velocity input numeric value is from 1 to 8, all of Reverb, Pan pot,and Aftertouch input numeric value are from 0 to 127.

Program key

This option allows you to access all 128 program change commands on an external MIDI synthesizer.

1.While pressing MIDI/SELECT button, "Data Display" shows Err;

2.Pressing Program key and "Data display" shows a number(one of 1 to 128), and then select the desire program number by pressing Numeric key, which input value is 1 to 128;

3.Finally,press Enter key to complete Program setting and "Data display" shows the number you chose.

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.

Octave Group

The octave buttons transpose the keyboard up or down one octave. When the transpose buttons are pressed, the octave transpose amount appears in the numeric display, i. e -1.

Transposer Group

Press the MIDI/SELECT button and the TRANSPOSE Key you increase(#) or decrease(b) 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) then press MIDI/SELECT to finish the change.

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.

Default setting as follows:

Default value	Explanation
MIDI channel = 1;	Channel value is reset to 1(1 to 16)
Octave value = C1	Octave value is reset to C1(C0 to C7)
Pan Pot value = 64	Transposer value is reset to 64(0 to 127)
Velocity Curve = 1	Velocity Curve is reset to 1(1 to 8)
Reverb value = 64	Reverb value is reset to 64(0 to 127)
Aftertouch value = 0	Aftertouch value is reset to 0 (0 to 127)
Volume value = 127	Volume value is reset to 127(0 to 127)
CC DATA = 0	CC DATA is reset to 0(0 to 127)
CC NO. = 7	CC NO. is reset to 7(0 to 127)
Program = 1	Program value is reset to 1(1 to 128)
Preset=1	Preset value is reset to 1(1 to 15)
Control Change(CC-00=0,CC-32=0)	Control Change message will be transmitted

Control Change data entry by Numeric keypad

MIDIPLUS 61U allows you to use the numeric keys to specify your Control Change DATA parameter instead of data entry slide. These parameters are Set CTRL,Reset,transposer,MIDI Channel,CC No,Program.By pressing MIDI/SELECT button and CC data key and 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 to finish this action;

9 For Velocity, Reverb and Chorus Depth, Pan Pot, Volume you only need to enter CC Data Value.

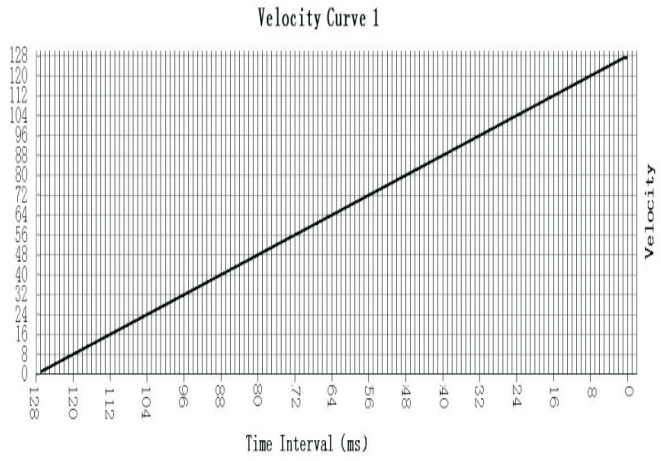
Please kindly note for e.g.: after you press enter key the LED display will show - - - to indicate that you pressed enter key and will not disappear until you press MIDI/SELECT button to finish your choice. After you press cancel key the LED display will show blank to indicate that you pressed cancel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

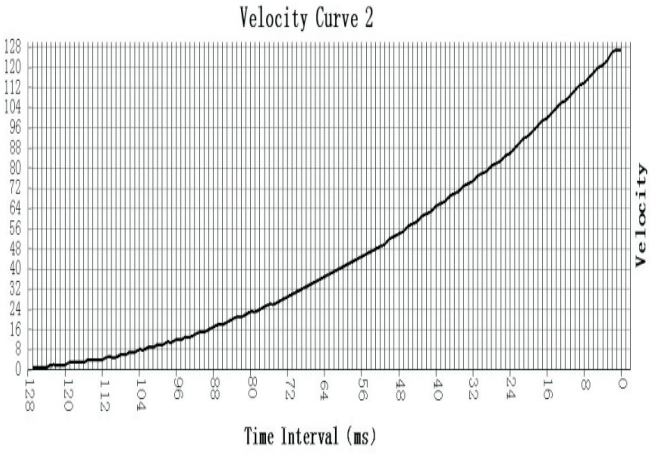
Velocity Curve

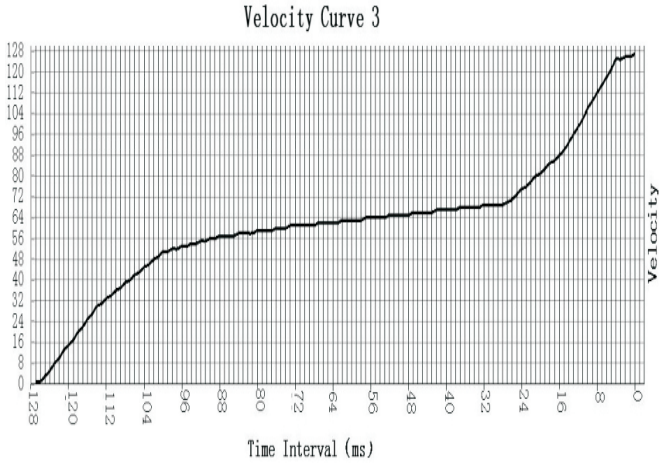
Selects one of eight Velocity Curves to customize the sensitive of the keyboard. When playing a velocity-sensitive sound (such as a piano), select a curve that provides the most natural response to your playing style.

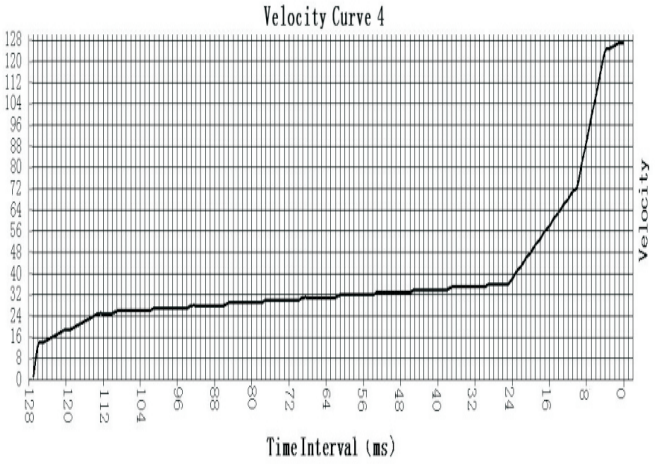
The selected Velocity Curve does not affect the outgoing MIDI velocity data; it affects the response of the internal synthesizer engine, both from the keyboard and from incoming MIDI data.

Velocity Curves as follows:

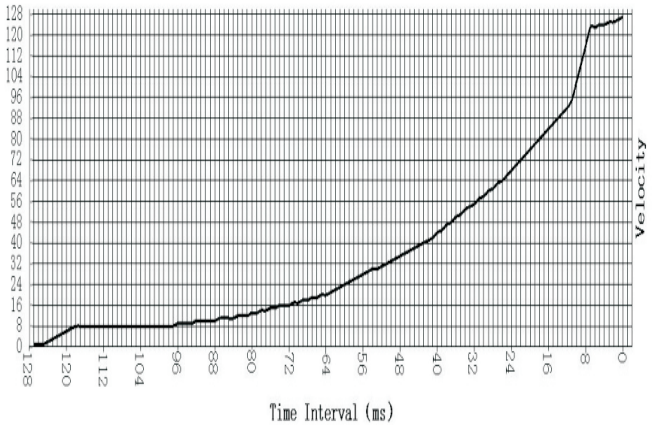




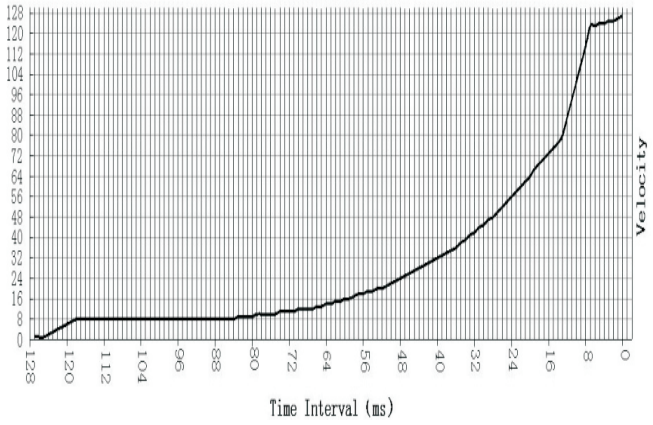




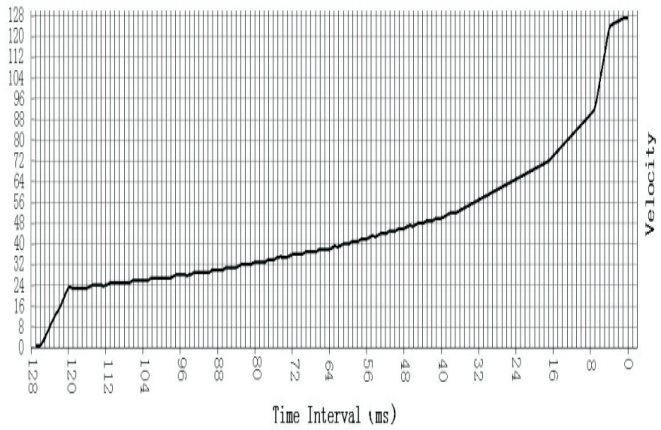
Velocity Curve 5



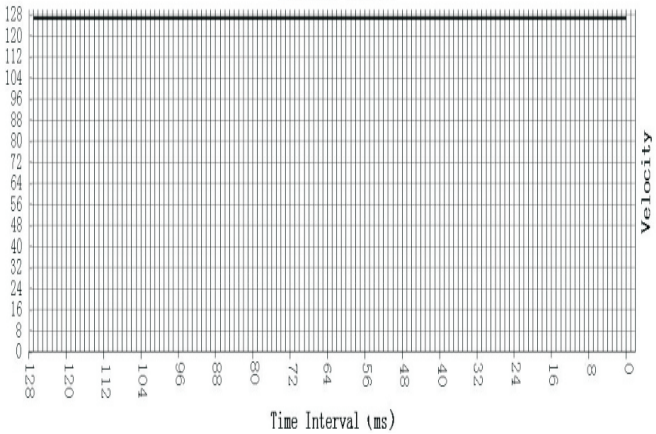
Velocity Curve 6



Velocity Curve 7



Velocity Curve 8



Rear Panel

Sustain Jack

This jack allows you to connect an optional footswitch to the keyboard. When the footswitch is depressed, notes played on the keyboard will continuously sound as long as the footswitch is held back.

MIDI OUT Jacks

This standard MIDI jack receives its source from the computer when software is set to **MIDIPLUS 61U** MIDI Out, and pass these MIDI messages to another MIDI instrument (works like MIDI through).

USB Port / Power Port

This USB connector jack is used to connect the **MIDIPLUS 61U** to the Computer's USB port using a standard USB cable (included).

Power Switch

The 3-way power switch turns the keyboard's power to external power DC5-9V or Battery or power off. The keyboard has a build-in EEPROM Store for saving all settings.

Specification

Keyboard	61 dynamic key
Simutaneous Note output(Reverse priority)	61 notes
Control switches	MIDI Channel,Reset,Octave (-2,-1,0,+1,+2),Program Change,CC-00/CC-32(For GS Bank Selection),CC-No.(Generic CC Assignment).CC-Data.Data Entry AfterTouch Assignment,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.Numerical keys x 10,Enter,Cancel,Pitch Bender Wheel,Modulation Wheel,Data Entry Slide
Extenal Control Terminals	USB port(for power and MIDI)
Display	7 segment LED x 3
Dimensions	75x23.7x6.6(cm)
Weight	3kg
Power source	DC 9V or PC USB Port

****If anything doesn't help, you can write an e-mail to our hotline mail to: *help@ning-hui.com* or *info@midiplus.com.tw* and then we try to help you.**

MIDI Implementation Chart

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	Octave Change
	True Voice	**********	X	
Velocity	Note ON	O	X	
	Note OFF	X	X	
AfterTouch	Key's	X	X	
	Ch's	X	X	
Pitch Bender		O	X	
Control Change		O	X	
Prog Change :True # **CC-00, CC-32**		1-128 0-127	X X	
System Exclusive		X	X	
System	:Song Pos	X	X	
	:Song Sel	X	X	
Common	:Tune	X	X	
System	:Clock	X	X	
	: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:				

O=Yes, X=No

Note Page:

NOTE

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

MIDIPLUS

www.midiplus.com.tw