P61X
Owner's Manual

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Preface

Congratulations on purchasing the AMW P61X 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 AMW P61X 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.

What's in the Box?

The following items should be in your package.

- P61X semi-weighted MIDI Controller.
- Owner's Manual.
- One standard USB Cable.

P61X Keyboard Overview

Here are the features including in the P61X keyboard:

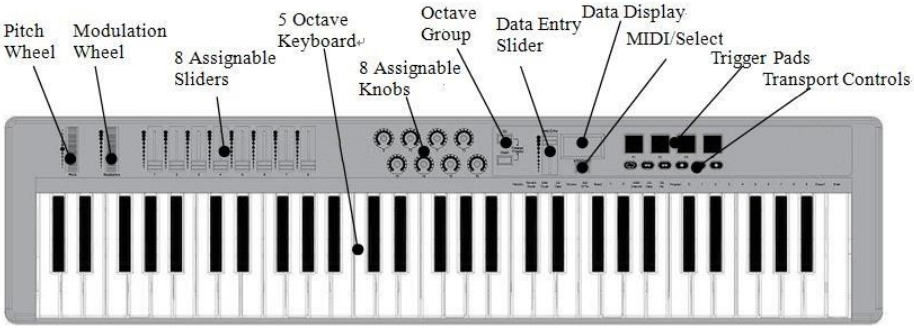
- 61 dynamic keys.
- Eight fully assignable 40mm sliders.
- Eight fully programmable knobs.
- Pitch Bend Wheel.
- Modulation Wheel.
- Four trigger pads.
- Six transport controls.
- Sustain pedal interface (sustain pedal does not include).
- Several velocity curves for choosing.
- P61X connect to PC through USB1.1.
- The supplied USB MIDI OUT and KEYBOARD MIDI OUT can connect to other MIDI device by oneself.

- Power Supply: USB power

Chapter 1：Quick Start

1.1 P61X Overview

1.1.1 Front panel Overview



1.1.2 Rear panel overview

1.1.3 Controllers description

These controllers are referred by name.

1. Pitch Bend Wheel	9. MIDI/Select
2. Modulation Wheel	10. Trigger Pads
3. 8 Assignable Sliders	11. Transport Controls
4. Standard 61Key keyboard	12. Sustain Pedal
5. 8 Programmable Knobs	13. Keyboard MIDI OUT
6. Octave Buttons (Up & Down)	14. USB MIDI OUT
7. Data Entry	15. USB 1.1 Jack
8. Data display	16. USB Power Switch

1.2 Minimum System Requirement

If you are using your P61X with a computer, the following minimum system requirements need:

Windows	Mac OS
Pentium 3800 MHz or higher	Macintosh G3*800/G4*733 MHz or higher
CPU requirement may be higher laptops	CPU requirement may be higher for laptops
256 MB RAM	OS X 10.3.9 with 256 MB RAM
Direct X 9.0b or higher	OS X 10.4.2 or greater with 512 MB RAM
Windows XP(SP2) or higher	*G3/G4 accelerator cards are not supported.

(Attention：Window98/ME/2000 are not supported)

AMW suggests that you connect directly to your computer built in USB ports.

1.3 Installation

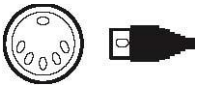
P61X does not need other driver to work with a computer, only needs the USB Audio Driver built in the system.
The first time you connect P61X to your computer, it will automatically install the general USB-Audio Driver. After installation, the system will tell you the "new hardware" is ready to use.

1.3.1 Play with your Application Software

Generally, in PC or Mac, most MIDI software will have a MIDI port configuration or settings, sometimes it called "MIDI Devices" or "MIDI Setup". You can choose and enable your MIDI input and output devices in it.
If the P61X driver is properly installed, and there is not other MIDI device connected, the MIDI In port of P61X In-1 (or "Port 1"on the Mac) will be selected as the first midi input, while the MIDI Out port of P61X Out-1 (or Port 1) will be selected as the first midi output.
If the MIDI software runs, and the MIDI-In and Out port in P61X are selected, the MIDI message will be received when playing the P61X keyboard. Also, the soft can send the midi message out to other device through the P61X "USB"MIDI OUT. You can connect this USB MIDI OUT port with the other sound module or virtual instrument.

1.4 MIDI Connection

MIDI connector is a standard 5-pin DIN connector which is used to connect the P61X to sound module or virtual instrument interface" with a MIDI cable.



If you need to transmit MIDI data from your keyboard to other professional MIDI instruments, please purchase a standard MIDI cable and use it to connect the Keyboard or USB MIDI OUT jack in P61X rear panel labeled "Keyboard "or "USB "to the MIDI IN jack of the other instrument.

1.5 Power supply

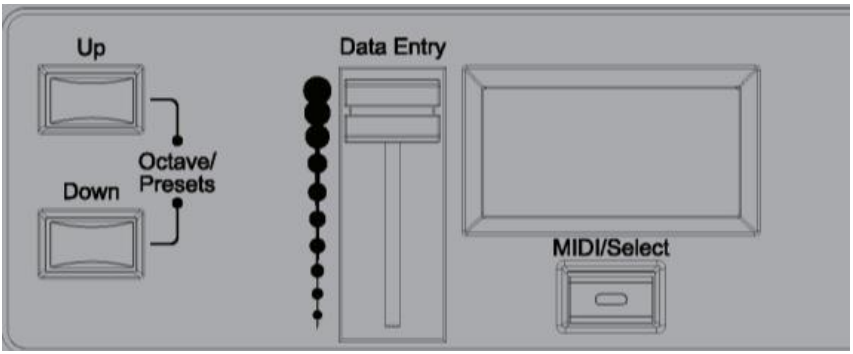
Connect an USB cable from your computer to the P61X. The unit will be powered by the computer USB.

Chapter 2：The basic MIDI Controllers

Because P61X does not contain built-in soundcard, play the keyboard will only send MIDI data out including the midi message. A virtual instrument can change it into a track of your DAW software and creates the sound based on the MIDI message received from P61X. For more details on using virtual instruments, please refer to the documentation in your DAW software.

2.1 P61X Function Buttons

2.1.1 P61X Function Buttons Screenshot



2.1.2 Set Controller Buttons

There are knobs, sliders, trigger pads and transport which can be used to send any MIDI controller data on any MIDI channel. All the knobs and sliders can be stored into 16 different groups at any time. Also, you can use the "SELECT" Button to choose any setting of different controllers in just a few steps.

In order to activate this function, you need to do as follows:

- Press the "SELECT" Button and the LED under the button will light on..
- Move the “DATA ENTRY” sliders to select a desired number. (1-16)
- Press the "SELECT" Button again (LED lights off) to complete the process. The selected group will activate soon.

2.1.3 Set MIDI Button

Pressing the MIDI Button, then you can configure the device with the

labeled key and edit all the controllers (include knobs, sliders, pads, Transpose buttons).In order to change the configuration of the device or edit the controllers, you need to do as follows:

- Press the "MIDI" Button and the LED under the button will light on.
- Press the labeled key or select the controller you want to edit
- Adjust the “DATA ENTRY” sliders or press the "Octave UP & Down" Buttons to select the desired number. You can see the number on the LCD screen.
- Press the "MIDI" Button again (LED lights off) to save the edit. And the selected value will activate soon.

Note: If you press the "SELECT" Button, the edit also can be saved successfully.

2.2 Setting

To make music on your keyboard is a very simple way. You just need to get familiar with the related features with the instrument. The following sections will discuss each of these features in detail.

2.2.1 Velocity Curve

When you're using a keyboard to play back a sample, you may find that it doesn't respond what you want. Pressing a key lightly may sound too quiet, and pressing a key hardly may sound too loud. Then you can use the Velocity Curve to change the responds to your key when pressed. Since MIDI supports 127 different velocity values (from 1 to 127), this function will allow you to choose the velocity curve you want. There are 8 velocity curves for different people. You can choose the velocity curve from the following setting steps:

- Press the "MIDI" Button and the LED under the button will light on.
- Press the "Curve" Key.
- LCD will display the current velocity curve number.
- You can choose the velocity curve you want by using "OCTAVE UP&DOWN" Buttons or “DATA ENTRY” sliders.
- The selected velocity curve will activate.
- Press the "MIDI" Button again (LED lights off) to save the edit.

2.2.2 Initialization

The initialization will restore P61X's factory settings, which will erase all the presets and the saved values.

To do the Initialization, you need to do as follows:

- Press the "MIDI" Button and the LED under the button will light on.
- Press the "Initialize" key.
- LCD will show "Enter to perform".
- Press the "NEXT" key. (The key on the keyboard marked "NEXT") .
- LCD will show "Enter to confirm".
- Press the "NEXT" key to confirm.
- When Initialization is done, the LCD will go back to EDIT scene.
- Press the "MIDI" Button again (LED lights off) to save the edit.

2.2.3 Global Channel

Use this function to select different MIDI commands using certain keys from your keyboard. Activating this function the keyboard becomes a set of function Buttons for setting MIDI parameter commands.

The P61X's global MIDI channel is assigned by the following steps:

- Press the "MIDI" Button and the LED under the button will light on.
- Press the "Channel" key.
- Use "OCTAVE UP & DOWN" Buttons or "DATA ENTRY" to select the desired channel (1-16).
- Press the "MIDI" Button again (LED lights off) to save the edit.

2.2.4 Program & Bank

Program message (commonly referred to program changing) is used to select different instrument sounds in a MIDI device. Program message covers a range of 128 instruments. These instruments are accessed by sending program number 0 to 127.

Some MIDI devices have more than 128 instruments. In this case, the instruments will be separated into groups by 128, called bank. You can send bank MSB and bank LSB messages to enter into these different banks. Please look over the owner's manual to see how the bank change number changes the sounds on your device.

To send a program change:

- Press the "MIDI" Button and the LED under the button will light on.
- Press the "Program" key.
- Use "DATA ENTRY" sliders or move "Octave UP & Down" Buttons to select a desired number.
- Press the "MIDI" Button again (LED lights off) to save the edit.

Bank change:

Actually the Bank Select message is the MIDI Controller messages, just like Volume, Pan, Sustain Pedal, Wind, and other controllers. Specifically, the controller number for the "Most Significant Byte" (i.e., MSB) of Bank Select is controller "0" The controller number for

"Least Significant Byte" (i.e., LSB) of Bank Select is controller "32". The data of these messages is the bank number you want to select. (Sometimes the MSB Bank Select is referred to the rough adjustment, and the LSB Bank Select is referred to the subtle adjustment).

2.2.5 Transpose

The "Octave UP&DOWN" Buttons can be used to transpose your keyboard. Some players want to play in a particular key like C or F, for example. Transpose lets you change the pitch you are controlling and continue to play in the key that is most comfortable for you.

It is possible to transpose up or down by as much as 12 MIDI notes (or semitones). This means if you press one of the transpose Buttons 12 times, the tone will sound exactly one octave higher or lower.

To do the Transpose, you need to do as follows:

- Press the "MIDI" Button and the LED under the button will light on.
- Press the "Transpose" Button.
- Use “DATA ENTRY” sliders or move “Octave UP & Down" Buttons to select a desired number.
- Press the "MIDI" Button again (LED lights off) to save the edit.

2.2.6 Controller Select

The Control Select function (CTRL SEL) will allow you to begin.

Programming the controller channel, the knobs, sliders, trigger pads and transport, Sustain pedal, Data Entry and Modulation wheel. In order to change the value of each controller, you need to do as follows:

- Press the "MIDI" Button and the LED under the button will light on.
- Select the controller you want to edit by pressing or turning.
- Tum the “DATA ENTRY” sliders or press the "Octave UP & Down" button to choose the control number you want to edit. You can see the Control Number on the LCD screen.
- Press the "Next" Key to set the channel.
- Turn the “DATA ENTRY” sliders or Press the "Octave UP & Down" button to choose the channel. You can see the channel number on the LCD screen.
- Press the "MIDI" Button again (LED lights off) to save the edit.

To program the controller of Data Entry, it is a little difference to others; you need to do as follows:

- Press the "MIDI" Button and the LED under the button will light on.
- Press the "DATA KNOB" key.
- Tum the “DATA ENTRY” sliders or press the "Octave UP & Down" button to choose the control number you want to edit. You can see the Control Number on the LCD screen.
- Press the "Next" Key to set the channel.
- Turn the “DATA ENTRY” sliders or Press the "Octave UP & Down" button to choose the channel. You can see the channel number on the LCD screen.
- Press the "MIDI" Button again (LED lights off) to save the edit.

2.2.7 Reset

- The LCD screen will display the current Mackie state("On"or"Off"). Press the "MIDI" Button and the LED under the button will light on.
- Press the "FACTORY RESET" key

- LCD will show "Enter to perform".
- Press the "NEXT" Key.
- LCD will show "Enter to confirm".
- Press the "NEXT" Key to confirm the operation.
- LCD will show "Resetting is done"
- Press the "MIDI" Button again (LED lights off) to save the edit.

2.2.7 Mackie on/off

When the state cannot be set to “Mackie on”, “Mackie off” can be set.

- Press the "MIDI" Button and the LED under the button will light on.
- Press a key on the Velocity key Left. The LCD screen will display the current Mackie state ("on" or "off").
- Press the "MIDI" Button again (LED lights off) to save the edit.