

# MIDIPLUS

## Origin 62 Owner's Manual



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# Preface

Thank you for buying Origin 62 MIDI keyboard. Origin 62 MIDI keyboard has a lot of features for you to use. When using your Origin 62 MIDI keyboard 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 user handbook can help you quickly understand the features and the operations of Origin 62 MIDI keyboard. Please keep this user handbook carefully for future references.

## What's in the Box?

The following items should be in your package.

- Origin 62 semi-weighted MIDI Controller.
- Owner's Manual.
- One standard USB Cable.

## Origin 62 Keyboard Overview

Here are the features including in the Origin 62 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.
- Origin 62 connect to PC through USB1.1.
- The supplied USB MIDI OUT and Keyboard MIDI OUT can connect to

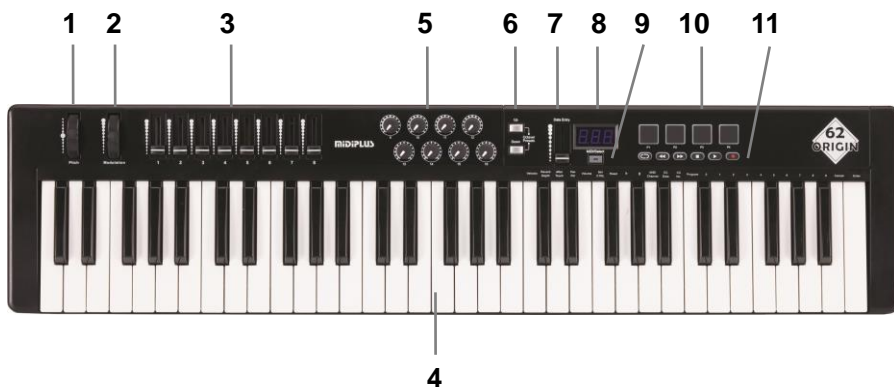
other MIDI device by oneself.

- Power Supply: USB power

## Chapter 1 : Quick Start

### 1.1 Origin 62 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 Slider	15. USB 1.1 Jack
8. Data display	16. USB Power Switch

## 1.2 Minimum System Requirement

If you are using your Origin 62 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.
(Windows 98,Me,NT or 2000 not supported)	

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

Connect directly to your computer built in USB ports.

## 1.3 Installation

Origin 62 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 Origin 62 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 Origin 62 driver is properly installed, and there is not other MIDI device connected, the MIDI In port of ORIGIN 62 In-1 (or "Port 1" on the Mac) will be selected as the first midi input, while the MIDI Out port of Origin 62 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 Origin 62 are selected, the MIDI message will be received when playing the Origin 62 keyboard. Also, the soft can send the midi message out to other device through the Origin 62 "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 Origin 62 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 Origin 62 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 Origin 62. The unit will be powered by the computer USB.

# Chapter 2 : The basic MIDI Controllers

## 2.1 Modulation Wheel / Pitch Wheel

### - 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.

### **- Pitch 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.

## **2.2 Octave Knobs / Data Entry Slider**

### **- Octave Knobs**

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.

### **- Data Entry Slider**

The Data Entry slider allows you to adjust the parameters of a MIDI controller. Use this knob to select different MIDI commands on certain keys from your keyboard. Origin 62 provides several groups of MIDI commands as follows:

## 2.3 MIDI SELECT and Function keys

Some keys on the keypad gives you direct access to this MIDI functions: **Velocity, Reverb Depth, Aftertouch, Pan, Volume, Set Ctrl, Reset, Transpose single note up and down, MIDI channel, CC data, CC number, Program number**. To use these functions, simply press the MIDI Select button and then the function you want to use. For example: Press the MIDI/SELECT button, then the VOLUME KEY, and you can adjust directly the volume of the keyboard with the DATA ENTRY slider. Another example: With the # and b keys you can increase or decrease the notes by halftones. If you want to transpose by 3 semitones: Press the MIDI/SELECT, then the # key, and use the DATA ENTRY knob (in the display you see 3 for three semitones) then press the MIDI/SELECT knob again to finish the change.

## 2.4 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.

## 2.5 Control Change data entry by Numeric keypad

MIDIPLUS Origin62 allows you to use the numeric keys to specify your Control Change DATA parameter instead of the DATA

ENTRY knob. 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 knob;
- 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, then press enter key to specify value 123 then press MIDI/SELECT knob to finish this action.
- 8) For Velocity, Reverb and Chorus Depth, Pan Pos, Volume 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 the MIDI/SELECT knob 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 the MIDI/ SELECT knob to finish your choice.

### **- Program Key**

Pressing MIDI/SELECT and then the Program key, then the numeric keys and then the ENTER key, you can select any patch number between 1 to 127. For example, if you want to change voice to 67 (Tenor Sax): Press the MIDI/ SELECT knob, the program key and 67 on numeric keys, ENTER key and then MIDI/SELECT again to finish this action.

## 2.6 Setting

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

1. Press the MIDI/SELECT knob and then SET CTRL (Controller) key (F3)
  2. Choice number of knob on ten key groups (1 - 20) then press enter
  3. Assign controller number on ten key groups (1-127) then press enter
  4. Assign act channel number on ten key groups (1-16) then press enter
  5. Finally, press MIDI/SELECT knob 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 16 real-time Controller Knobs and Faders.

## 2.7 Selecting and setting a presetbank

There are 15 presetbanks with predefined controller settings, each with 20 controllers (Midichannel, Midicontroller Nr.) All settings are stored in an EE-Prom to be sure at power off or battery change state. At the end of this usermanual you can find a list with the factory settings of the controllers. For selecting a presetbank press MIDI/SELECT, then the OCTAVE UP or DOWN to increase or decrease the banknumber you want to choose, then press ENTER.

Now you can use the new bank, with 20 new controller settings. For setting a presetbank, please see part Assignment of the 20 Real-time Controllers!

## 2.8 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/SELECT" Button and the LED of the button will light on.
- Press the "VELOCITY/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" knob.
- The selected velocity curve will activate.
- Press the "MIDI/SELECT" Button again (LED lights off) to save the edit.

## Chapter 3 : Trouble Shooting

If anything doesn't work, please check following points:

### **- MIDI connection fault**

Do you have installed your midi drivers from your soundcard or USB interface?

Look at START --> Settings --> Systemcontrol --> Multimedia --> Tab Midi for installed midi drivers. If not, you have to do this first. After that your Keyboard should work with your computer. Attention: In some programs you have to set the Input-Port, before you can receive MIDI-data. Please check!

### **- Audio is delayed**

This problem is often attached to the midi device, but in reality it is a problem of the sound card in your computer. The easiest way to solve this latency problem is to install an audio-interface with a special ASIO driver, and a compatible music software.

### **- MIDI Device is not recognized**

There are some misunderstandings about midi, because the computer does not recognize a midi device, except it is an USB-device. The midi standard doesn't support recognizing of devices. The Origin 62 is recognized by USB but not by a MIDI-interface, this is normal.

### **- Pedal doesn't work**

May be you have the wrong pedal type. There are two types of pedals in the market: One is a pedal with an open contact, and if pressed it closed, and one is with a closed contact and opened if

pressed. The keyboard needs a pedal with an open contact!

### **- USB doesn't work**

Is the power switch in the power-on position?

Is the keyboard is recognized by USB? If you connect the keyboard to the computer by USB, it should be recognized. You can hear a short sound and the computer shows the name of the keyboard. In Windows XP, it is called "USB audio device". If this not happens, there should maybe a technical problem. The MIDIPLUS Origin 62 is fully class compliant to any Windows versions up to Win 7 64 bit and Mac OSX 10.6 . This means, it will be automatically recognised and setup by the OS without installing an additional driver.

You can see in the device manager if the keyboard is recognised!

Look at „Start -> Settings -> System control -> System -> Tab Hardware -> Device manager at Audio/Video/Game controller for the keyboard settings.

Do you have set MIDI-In port at your music program?

If not, no communication with your music program is possible. Have a look in the manual of your software how to do this.

Please install the Origin 62 at a primary USB port of your PC or Mac, NOT at a USB Hub. This can cause problems with the keyboards.

### **- Power supply does not work**

If the unit isn't powered by power-supply, try to connect by USB-Connection. If it works normal, the power-supply may be damaged.