

# MIDIPLUS

## AK490<sup>+</sup> Owner's Manual



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# Preface

Congratulations on your purchase of MIDIPLUS AK490<sup>+</sup> semi-weighted MIDI Controller. The AK490<sup>+</sup> includes PitchBend and Modulation wheels, Octave +/- buttons and Sustain pedal input. It's powered via a single USB cable and works instantly with computer building Mac OS X or Windows XP/Vista/7 system. The universal and easy-to-use AK490<sup>+</sup> is a great controller in the studio and concert.

## What's in the Box?

The following items should be in your package.

- AK490<sup>+</sup> semi-weighted MIDI Controller.
- Owner's Manual.
- One standard USB Cable.

## AK490<sup>+</sup> Keyboard Overview :

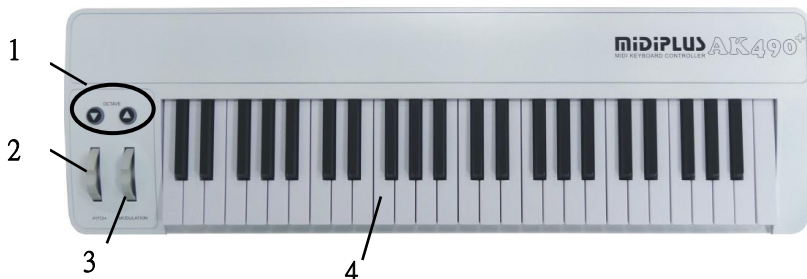
Here are the features including in the AK490<sup>+</sup> keyboard:

- 49-note semi-weighted piano-style keyboard.
- PitchBend Wheel.
- Modulation Wheel.
- Sustain pedal interface(sustain pedal does not include).
- Power Supply: External USB power or 6 C type batteries.

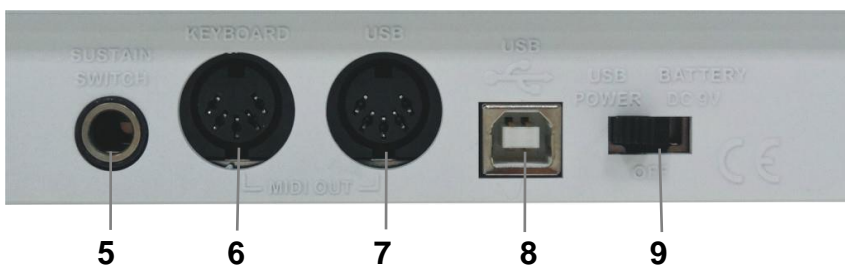
# Chapter 1 : Quick Start

## 1.1 AK490<sup>+</sup> Overview

### 1.1.1 Front panel Overview



### 1.1.2 Rear panel overview



## 1.1.3 Controllers description

These controls are referred by name throughout this manual.

1. Octave Key (Up & Down)	6. Keyboard MIDI OUT
2. PitchBend Wheel	7. PC/MAC USB MIDI OUT
3. Modulation Wheel	8. USB interface
4. Standard 49Key keyboard	9. Power selector
5. Sustain Pedal	

## 1.2 Minimum System Requirements

If you are using your AK490<sup>+</sup> with a computer, the following minimum system requirements need:

Windows	Mac OS
Pentium 3 800MHz or higher	Macintosh G3*800/G4*733MHz 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
DirectX 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/NT or 2000 are not supported)

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

## 1.3 Installation

AK490<sup>+</sup> do not need other driver to work with a computer, only needs the USB Audio Driver built in the system.

The first time you connect AK490<sup>+</sup> 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 AK490<sup>+</sup> driver is properly installed, and there is not other MIDI device connected, the MIDI In port of AK490<sup>+</sup> In-1 (or “Port 1” on the Mac) will be selected as the first midi input, while the MIDI Out port of AK490<sup>+</sup> 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 AK490<sup>+</sup> are selected, the MIDI message will be received when playing the AK490<sup>+</sup> keyboard. Also, the soft can send the midi message out to other device through the AK490<sup>+</sup> “USB” MIDI OUT. You can connect this USB MIDI OUT port 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 AK490<sup>+</sup> 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 AK490<sup>+</sup> read 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 AK490<sup>+</sup>. The unit will be powered by the computer USB.

Alternatively, if you do not want to use a computer for power, you can also use 6 C type batteries.

## **Chapter 2: Basic MIDI Control**

Because AK490<sup>+</sup> 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 AK490<sup>+</sup>. For more details on using virtual instruments, please refer to the documentation in your DAW software.

### **2.1 Keyboard**

AK490<sup>+</sup> KEYBOARD is used as a normal electronic piano keyboard in the performance, and it is usually used to change the MIDI settings as controller and create the MIDI song.

#### **2.1.1 Velocity**

The presence of velocity sensitivity can make your playing song more inspiring. If you don't have the velocity sensitivity, the keyboard will send the same velocity value for each note, which makes the player uninspiring. This velocity-sensitive keyboard allows you to express dynamics accurately, while different note ranges is done

instantly through dedicated Octave Up and Down buttons.

### **2.1.2 Octave**

The “Octave UP&DOWN” buttons can be used to enlarge the 49-key to 88-key or more. With it, you can play the note from –C1 to C9(128 notes). Some players want to play start with C2 not C3, He can change the Octave value to -1 easily.

## **2.2 MIDI OUT**

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 MIDI OUT jack labeled “Keyboard MIDI OUT” or “USB MIDI OUT” in the rear panel to the MIDI IN jack of the other instrument.