

MIDIPLUS

AK490 Owner's Manual



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Preface

Congratulations on your purchase of MIDIPLUS AK490 semi-weighted MIDI Controller. The AK490 includes Pitch Bend 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 is a great controller in the studio and concert.

What's in the Box?

The following items should be in your package.

- AK490 semi-weighted MIDI Controller.
- Owner's Manual.
- One standard USB Cable.

AK490 Keyboard Overview :

Here are the features including in the AK490 keyboard:

- 49-note semi-weighted keyboard.
- Pitch Bend Wheel.
- Modulation Wheel.
- Sustain pedal interface (sustain pedal does not include).
- The supplied USB MIDI OUT and KEYBOARD MIDI OUT can connect to other MIDI device by oneself.
- AK490 connect to PC through USB1.1
- Power Supply: External 5-9V DC power, or USB power or 6 AA type batteries.

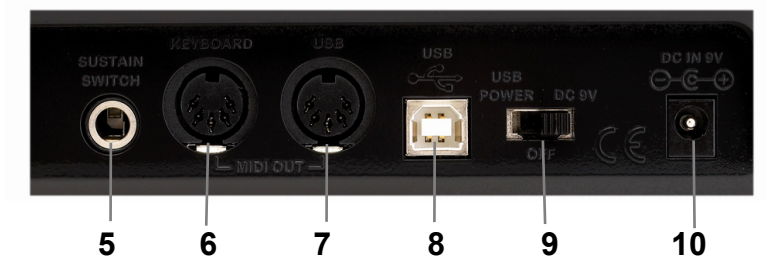
Chapter 1 : Quick Start

1.1 AK490 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.

Front-panel	Rear-panel
1、 Octave Key (Up & Down)	6、 Keyboard MIDI OUT
2、 Pitch Bend/Wheel	7、 PC/MAC USB MIDI OUT
3、 Modulation Wheel	8、 USB 1.1 interface
4、 Standard 49Key keyboard	9、 Power selector
5、 Sustain Pedal	10、 External power interface

1.2 Minimum System Requirements

If you are using your AK490 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 256MB 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 or 2000 are not supported)

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

1.3 Installation

AK490 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 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 driver is properly installed, and there is not other MIDI device connected, the MIDI In port of AK490 In-1 (or "Port 1" on the Mac) will be selected as the first midi input, while the MIDI Out port of AK490 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 are selected, the MIDI message will be received when playing the AK490 keyboard. Also, the soft can send the midi message out to other device through the AK490 "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 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 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. 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 AA type batteries or external 5-9V DC, 500mA power adapter(Center-positive, 2.5mm barrel diameter) .

Chapter 2: The basic MIDI Control

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

2.1 Keyboard

AK490 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.

前言

感謝您購買了 AK490 MIDI 標準簡單版半配重鍵盤。它擁有基礎的 Pitch Wheel(滑音滑輪)、Modulation Wheel(調音滑輪)和 Octave Up & Down(八度 上&下)控制按鍵，方便編曲和製作電子音樂，衷心希望它能給您帶來簡約而不簡單的感受！

包裝內容

如果在您的包裝盒中少了下列的附件，請與您購買的經銷商聯繫。

- AK490 半配重鍵盤一個。
- 說明書一份。
- USB 數據線一條。

AK490 鍵盤總覽

以下是 AK490 鍵盤所提供的功能：

- 49 鍵標準半配重鍵盤。
- Octave(八度)上下調節按鍵。
- 滑音滑輪(Pitch Wheel)。
- 調音滑輪(Modulation Wheel)。
- 具備 Sustain(延音)踏板插孔。
- 具有 USB MIDI OUT 和 KEYBOARD MIDI OUT 可分別連接其他 MIDI 設備。
- 通過 USB1.1 連接 AK490 和電腦。
- 鍵盤可外接 5-9V 直流電源，也可以直接通過 USB 線供電 或 6 個 AA 電池，而無需外接電源。

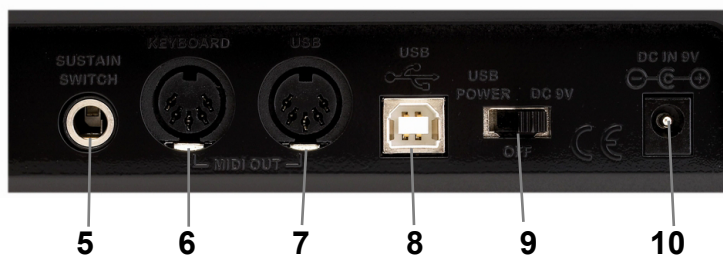
第一章：快速入門

1.1 AK490 總覽

1.1.1 面版總覽



1.1.2 背版總覽



1.1.3 控制器說明

按照上面編號對應其名稱

面版	
1、 八度(上&下)	Octave (UP&DOWN)
2、 滑音滑輪	Pitch
3、 調音滑輪	Modulation
4、 49 鍵標準鍵盤	Standard 49Key keyboard
背版	
5、 延音踏板	Sustain Pedal
6、 鍵盤 MIDI 輸出	Keyboard MIDI OUT
7、 USB MIDI 輸出	USB MIDI OUT
8、 USB 1.1 插孔	USB 1.1 interface
9、 電源切換開關	Power selector switch
10、 外部電源插孔	External power interface

1.2 設定

如果您想要連接您的 AK490 鍵盤到電腦上，請先閱讀文章 1.2.1 和 1.3 章節。如果您想要使用您的 AK490 鍵盤和外部 MIDI 設備連接您應該跳到文章 1.4 節。

1.2.1 基本系統需求

如果您想將您的 AK490 與電腦連線使用，至少應有以下基本系統需求：

Windows	Mac OS
Pentium 3 800MHz or higher	Macintosh G3*800/G4*733 MHz or higher
(CPU requirement may be higher for 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.
(Windows 98,Me,NT or 2000 not supported)	

(注意：不支持 Windows98,Me,NT 或 2000)

建議您根據您所使用的應用軟體對配置的要求選擇相應配置電腦和系統，因為不同軟體對您電腦的要求有所不同。

1.3 驅動程式安裝

AK490 不需要特定的音訊設備驅動，系統內建的即可實現。第一次連接 AK490 到您的電腦，電腦會自動提示，您需要做的是選擇內建驅動讓其自動安裝即可。

1.3.1 如何操作 AK490 與您的軟體

以 USB 線連接電腦使用內建音源或是外接音效卡時，打開您使用的 MIDI 軟體後請在 MIDI Setup 或是 MIDI Device 設備選項中把 MIDI IN 選擇 USB MIDI Interface ; MIDI OUT 選擇電腦的內建音效卡名稱或是

您的外接音效卡，設定完成後即可接通電腦與 **AK490**，此時您由 **AK490** 所彈奏控制的 MIDI 訊號便能傳遞到電腦的 MIDI 軟體記錄起來，也能即時聽到自己做製作的 MIDI 音樂。

1.4 MIDI 連接

MIDI 輸出口試使用標準的 5-pin 的 MIDI 端子。



MIDI 的輸出口可用於連接硬體編曲器、外部合成器或音源機等等。

1.5 電源供應

如果您是通過 **USB** 線與您的電腦相連的，則不需要外接電源供電，因為此時電腦可以直接通過連接的 **USB** 線給 **AK490** 提供電能；如果您不想連接電腦，那麼您可以使用 6 個 **AA** 電池供電或是要外接一個電源變壓器，同時需要注意選擇相對應的電源（鐵芯 2.5mm 的 5-9V DC 500mA 適配器）。

第二章：AK490 的基本 MIDI 控制

您的 **AK490** 主控鍵盤在沒連接電腦和其他任何設備時是無法發出任何聲音。這是因為當您彈奏時，**AK490** 只是傳送 MIDI 資料並不會處理其本身的聲音資料，而傳輸的這些 MIDI 資料又是通過對 **AK490** 進行操作而實現的，所以一開始您應先熟悉面板內容。

2.1 鍵盤

AK490 採用標準的 49 鍵半配重琴鍵。開機默認從左到右 C2~C6，共對應 49 個。通過配合 Octave(八度)鍵使用，可以實現全鍵盤 128 個。

2.1.1 力度

AK490 是一台具有力度感應的 MIDI 鍵盤，彈奏它的時候就如同彈奏鋼琴一樣附力度感應，不同的力度去彈奏會有不同音質的感受。

2.1.2 八度

有 128 個音符能以 MIDI 資訊的形式傳輸，如果您希望彈奏是超過您 AK490 鍵盤範圍外的音符，你可以通過 Octave 鍵來向上或者向下移動鍵盤上的音域。Octave 一次向上或向下移動範圍是 12 個音符，即一個八度，可以通過 Octave 來實現彈奏全部的 128 個音符。

實現八度轉移

- 找到 OCTAVE 按鍵。
- 按下 DOWN 鍵即可向下移動一個八度
- 按下 UP 鍵即可向上移動一個八度。
- 同時按下 DOWN 和 UP 鍵可以將鍵盤回復到中央 C 的音域

2.2 MIDI 輸出

在 AK490 上有兩個 MIDI OUT，第一個-USB MIDI OUT，它的作用是将 USB 下傳到 AK490 的 MIDI 資訊轉發出去；第二個-KEYBOARD MIDI OUT，它的作用是将 AK490 鍵盤自身產生的 MIDI 資訊轉發出去。

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