MIDIPLUS

AKM320
Owner's Manual

Preface

Congratulations on your purchase of MIDIPLUS AKM320. The AKM320 includes Pitch and Modulation wheels, MIDI Data Entry Slider, Octave buttons (Up & Down), Transpose Buttons (Up & Down) 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 and above.

What's in the Box?

The following items should be in your package.

- AKM320 velocity sensitive mid-size key keyboard USB MIDI Controller.
- Owner's Manual.
- One standard USB Cable.

AKM320 Keyboard Overview：

Here are the features including in the AKM320 keyboard:

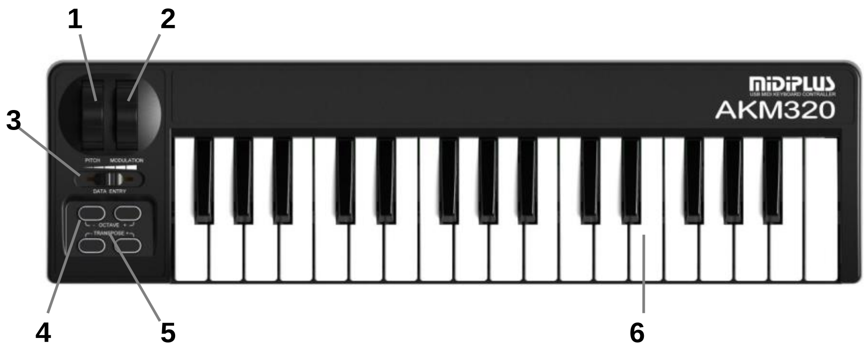
- 32-note velocity sensitive mid-size key keyboard.
- Pitch Wheel.
- Modulation Wheel.
- MIDI Data Entry Slider.
- Octave Buttons(Up & Down).
- Transpose Buttons(Up & Down).

- Sustain Switch interface (sustain pedal does not include).
- USB Port.

Chapter 1：Quick Start

1.1 AKM320 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) Pitch Wheel (2) Modulation Wheel (3) Data Entry Slider (4) Octave Buttons (Up & Down) (5) Transpose Buttons (Up & Down) (6) Mid-size 32Key Keyboard	(7) Sustain Switch (8) USB 1.1 Interface

1.2 Minimum System Requirements

If you are using your AKM320 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

AKM320 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 AKM320 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 AKM320 driver is properly installed, and there is no other MIDI device connected, the MIDI In port of AKM320 In-1 (or “Port 1” on the Mac) will be selected as the first midi input, while the MIDI Out port of AKM320 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 AKM320 are selected, the MIDI message will be received when playing the AKM320 keyboard. Also, the soft can send the midi message out to other device through the AKM320 “USB” MIDI OUT. You can connect this USB MIDI OUT port the other sound module or virtual instrument.

1.4 Power supply

Connect an USB cable from your computer to the AKM320. The unit will be powered by the computer USB, no additional power adaptor needed.

1.5 Sustain switch

This jack allows you to connect an optional Sustain Footswitch to the keyboard.

Chapter 2: Basic MIDI Control

Because AKM320 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 AKM320. For more details on using virtual instruments, please refer to the documentation in your DAW software.

2.1 Pitch Wheel

The Pitch 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.

2.2 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.

2.3 Octave

The “Octave UP&DOWN” buttons can be used to enlarge the 32-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.

2.4 Transpose

you can transpose the KEYBOARD, shifting it up or down in semitone intervals.