MPD16

USB/MIDI PAD CONTROL UNIT
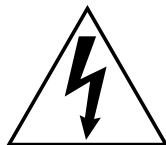
AKAI
professional

Operator's Manual

WARNING
To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANU-
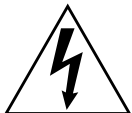FACTURER FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO
OPERATE THE EQUIPMENT.

32-En

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

THE SYMBOLS ARE RULED BY UL STANDARDS (U.S.A.)

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure; that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

5B-En

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To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

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WARNING

The MPD16 is designed to be used in a standard household environment.
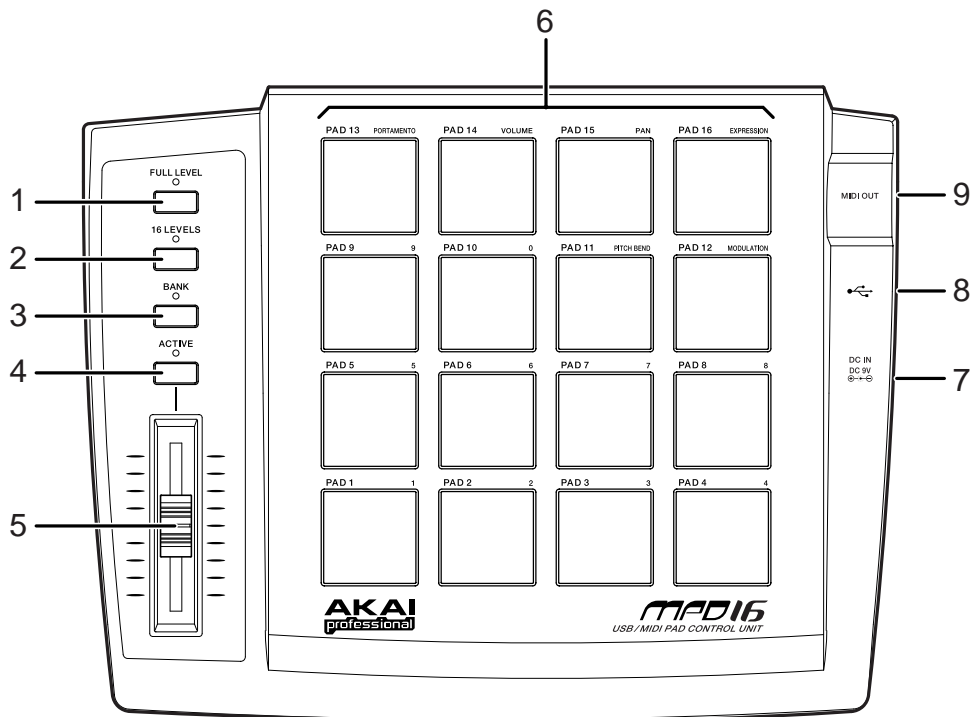
PROTECTING YOURSELF AND THE MPD16

- Allow only an AKAI professional dealer or qualified professional engineer to repair or reassemble the MPD16.
- Do not put, or allow anyone to put any object, especially metal objects, into the MPD16.
- Use only the DC power supply specified. Never use an AC power supply directly.
- If water or any other liquid is spilled into or onto the MPD16, disconnect the power and/or battery, and call your dealer.
- Make sure that the unit is well-ventilated, and away from direct sunlight.
- To avoid damage to internal circuitry, as well as the external finish, keep the MPD16 away from sources of direct heat (stoves, radiators, etc.).
- Avoid using aerosol insecticides, etc. near the MPD16. They may damage the surface, and may ignite.
- Do not use denatured alcohol, thinner or similar chemicals to clean the MPD16. They will damage the finish.
- Modification of this equipment is dangerous, and can result in the functions of the MPD16 being impaired. Never attempt to modify the equipment in any way.
- Make sure that the MPD16 is always well-supported when in use on a firm level surface.
- In order to assure optimum performance of your MPD16, select the setup location carefully, and make sure the equipment is used properly. Avoid setting up the MPD16 in the following locations:

  1. In a humid or dusty environment
  2. In a room with poor ventilation
  3. On a surface which is not horizontal
  4. Inside a vehicle such as a car, where it will be subject to vibration
  5. In an extremely hot or cold environment

- Be sure to wait for a few seconds before tuning the unit on again after the power has been turned off to ensure proper operation.

The MPD16 USB/MIDI Pad Control Unit is built with the Drum Pad taken from the MPC series models inherited since the MIDI Production Center MPC60. The MPD16 makes the drum sequencing and/or phrase/loop play, that felt awkward with the keyboard, easier for the drummers and/or DJs with the same feeling of MPC series models.

The MPD16 has two banks, BANK A and BANK B. Each bank holds 16 notes assignable to 16 pads and the banks can be switched in real time for playing up to 32 notes. The Slider can control various settings by assigning it an appropriate Control Change number.

When connected to the computer, the MIDI information is directly sent to the computer through the USB port via a single USB cable.

1. FULL LEVEL
Pressing this key turns the FULL LEVEL mode and its LED on. In FULL LEVEL mode, the Note-On velocity is fixed at the maximum level (127) regardless of how hard or soft you tap the Pad.

2. 16 LEVELS
Pressing this key turns the 16 LEVELS mode and its LED on. In 16 LEVELS mode, each Pad plays the same note in 16 different Note-On velocity steps. The note played is the note (Pad) you last played before pressing this key.

3. BANK
Pressing this key switches the pad bank to BANK B and turns its LED on, allowing you to play the notes assigned in BANK B. The BANK A is active while this LED is off.

4. ACTIVE

Pressing this key turns the ACTIVE mode and its LED on. In ACTIVE mode, the Control Change message is generated using with the Slider.

5. Slider

The Control Change message assigned to the Slider is generated when this Slider is moved. The value of the Control Change message is determined by the position of the Slider. The Slider is effective only while the ACTIVE mode is on.

6. Pad 1-16

The Note-On/Off messages assigned on each Pad is generated when the Pad is tapped. Its Note-On velocity value depends on how hard or soft the Pad is tapped. The Aftertouch (Key pressure) is generated when the Pad is held pressed and the pressure is varied.

7. DC IN

Connects the optional DC 9V AC Adaptor (MP-9) here.

Note 1: It is not required when connected via USB.
Note 2: This unit has no power switch. It always stays on while the AC Adaptor is connected.

8. USB

Connects the USB port of computer via USB cable.

Note 1: The connected computer is required to have the USB Driver software installed to properly recognize the MPD16. For the installation of USB Driver software, refer to the CD-ROM disc included.
Note 2: This unit has no power switch. It always stays on while connected to the computer via the USB cable.

9. MIDI OUT

Connects the other MIDI devices than the computer.

Note: The optional AC Adaptor is required, if not connected via the USB cable.

Notes on operation

1. The USB cable is used to connect to the computer and the MIDI cable is used to connect to the other MIDI devices. When the MIDI cable only is used, it is required to use the optional AC Adaptor.
2. The assignment of the Note number to each pad, Control Change number to the Slider, and MIDI transmit channel of the MPD16 can be set/changed. Refer to "Settings" (see later) for the details.
3. The assignment of the Note number, Control Change number, and MIDI transmit channel can be set/changed conveniently from the computer with the MPD16 Utility software included on the CD-ROM disc. This Utility software also allows to set/change the sensitivity of each Pad. For the installation and operation of this Utility software, refer to the PDF file included on the CD-ROM disc.

Settings

Note number

1. Press and hold the ACTIVE key for 2 seconds or longer. Its LED begins to flash and the Note number assign mode is enabled.
2. Press the BANK key to select the bank that contains the Pad you want to set.
3. Select the Pad by tapping the Pad you want to set.
4. Use FULL LEVEL (up)/16 LEVELS (down) keys to change the Note number assigned.

Note 1: Use an external sound module, etc. to confirm, as there's no value indicator on the MPD16.
Note 2: The range of note number assignable is from 0 (C-2) to 127 (G8).

5. To set the Note number to other Pads, repeat the steps 3 and 4 above.
6. Press the ACTIVE key to exit.

Control Change number

1. Press and hold the BANK key for 2 seconds or longer. Its LED begins to flash and the Control Change number assign mode is enabled.
2. Using the Pads 1-10 (equivalent to numerical keys 1 to 0), enter the 3-digit number of the Control Change number you want to set. For example, press Pads 10-9-3 for 93. The Pads 11 to 16 are shortcut keys of the specific controls, i.e. Pitch Bend, Modulation, Portamento, Volume, Pan, and Expression. The assign mode finishes when the number (or shortcut key) is entered.

Note 1: Use an external sound module, etc. to confirm, as there's no value indicator on the MPD16.
Note 2: The range of control change number assignable is from 0 to 119.

MIDI Channel

1. Press and hold the 16 LEVELS key for 2 seconds or longer. Its LED begins to flash and the MIDI transmit channel assign mode is enabled.
2. Using the Pads 1-16 (equivalent to MIDI channel 1 to 16), enter the number of the MIDI channel you want to set. For example, press Pad 10 for channel 10. The assign mode finishes when the number is entered.

Note: Use an external sound module, etc. to confirm, as there's no value indicator on the MPD16.

Reset to Default

While pressing the FULL LEVEL and BANK keys, turn the unit on (i.e. connect the AC Adaptor or connect the computer with USB cable). The FULL LEVEL LED flashes for 3 seconds and all the settings, except for the Pad sensitivity, are reset to their default values.

Specifications

Functions: Transmission of MIDI Note-On/Off, Aftertouch (Key pressure), Control Change
messages

Terminals: USB   USB connector x 1 (USB V1.1)
          MIDI OUT   5-pin DIN x 1
          DC IN   9V AC Adaptor connection x 1

Controls: Pad x 16, FULL LEVEL key, 16 LEVELS key, BANK key, ACTIVE key, Slider

Indicators: LED x 4 (FULL LEVEL, 16 LEVELS, BANK, ACTIVE)

Power: 9V DC/95mA – AC Adaptor MP-9 (optional)

Dimensions: 264 (W) x 205 (D) x 40 (H) mm

Weight: 950g

Accessories: Operator's Manual, USB cable (1m), CD-ROM Disc

Options: AC Adaptor MP-9

* The specifications above are subject to change without prior notice.