amptone LAB

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XY MIDIpad

MIDI CONTROLLER KIT FOR ELECTRIC GUITAR

USER MANUAL

ENGLISH

INSTALLATION

XY MIDIpad is intended to be installed by professional luthiers and guitar repair or custom shops only. It requires significant woodworking, as well as appropriate tools and the ability to use them safely. AmpTone Lab cannot be held responsible for any damage or injuries that may occur during installation.

MAIN CAVITIES

XY MIDIpad needs to be installed inside an electric guitar body. Installation requires routing two cavities behind the guitar bridge.

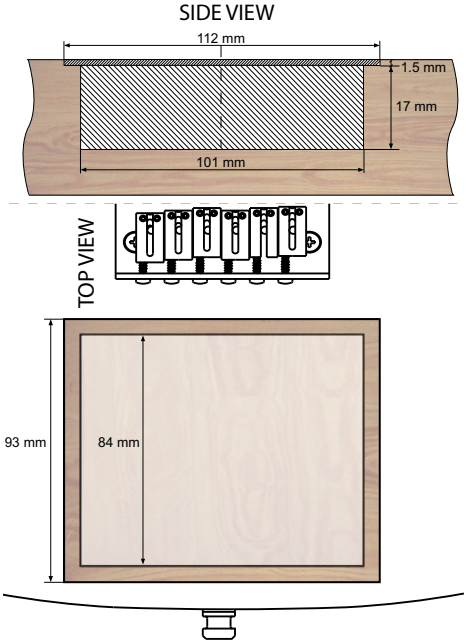
The first cavity should measure **112 x 93 mm**. It should be very shallow (**1.5 mm**). This is where the light diffuser plate and touchscreen will be installed. The light diffuser plate should be placed at the bottom of the cavity, with the touchscreen mounted on top of it.

The second cavity should be made within the first one, right in the middle of it. Recommended dimensions for the second cavity are **101 x 84 mm**. It should be **17 mm** deep (**18.5 mm** measured from the top of the guitar body).

CONTROL CAVITY

XY MIDIpad comes with several components that need to be connected to the controller unit. The best location for the power toggle switch, rotary encoder, and hold button is usually the control cavity where the guitar pots are located. The MIDI connector is most conveniently installed next to the guitar output jack.

The exact placement of these components depends on the guitar model and available space. Ensure that sufficient space is available for the components and wiring. Once mounted, connect the components to their respective connectors on the XY MIDIpad controller unit.



SETUP AND USAGE

For a direct connection between XY MIDIpad and the controlled device, you need to use a standard MIDI cable (DIN5). You can connect it to any MIDI device that responds to its messages (see the MIDI table below).

HOLD MODE: The pushbutton activates the controller's Hold mode. When Hold mode is active, XY MIDIpad will not send messages related to touch input.
ECONOMY MODE: If you are concerned about power consumption, you can use XY MIDIpad in economy mode, in which the controller does not use the main LED for visual effects. To activate or deactivate economy mode, hold the XY MIDIpad pushbutton while powering it on.

SWITCHING PROGRAMS: XY MIDIpad allows you to switch between programs of the controlled device. To do so, twist the rotary encoder. XY MIDIpad sends Program Change messages within the 0-127 range.
SWITCHING MODES: XY MIDIpad offers 4 different controller modes, each sending a different set of MIDI messages (see the MIDI table below). To switch between modes, press and hold the rotary encoder for 1 second. The mode will be indicated by the number of red LED flashes.
COMPATIBILITY: XY MIDIpad uses the default settings of devices used with modes 1 and 2. You may, however, need to set the device's MIDI channel. Please refer to the device's manual to find out how to set the MIDI channel.

Mode	Default devices	MIDI ch.	X-axis	Y-axis	Touch	Rotary encoder
1	Korg KP2, KP3, KP3+, Kaossilator Pro, Kaossilator Pro+	1	MIDI CC12 (0-127)	MIDI CC13 (0-127)	MIDI CC92 (0; 127)	Program Change (0-127)
2	DigiTech Whammy 4, Whammy 5, Whammy DT, Bass Whammy	2	MIDI CC11 (0-127)	MIDI CC10 (0-127)	MIDI CC0 (0; 127)	Program Change (0-127)
3	MIDI hardware synthesizers, MIDI software synthesizers	3	Note On, Note Off MIDI notes range: C4-B4; Velocity: 100	MIDI CC7 (0-127)	MIDI CC14 (0; 127)	Program Change (0-127)
4	MIDI drum machines, MIDI drum samplers, MIDI drum synthesizers	10	Note On, Note Off MIDI notes: bass drum, snare, open hi-hat, crash; Velocity: 100		MIDI CC15 (0; 127)	Program Change (0-127)

FREQUENTLY ASKED QUESTIONS

We've gathered answers to some of the most common questions below. If you can't find what you're looking for, feel free to contact us at **info@amptonelab.com**.

There is a protective film on the touchscreen and frame. Should it be removed?
Yes. Both the touchscreen and frame are covered with a protective film to prevent scratches during shipping. Make sure to remove the film before use.

What battery does XY MIDIpad use?
XY MIDIpad requires a standard 9 V battery (6F22 or 6LR61 type). The battery is not included and must be purchased separately.

How do I connect the touchscreen?
The touchscreen is connected using an FFC ribbon cable. Carefully open the connector latch using a fingernail or a small flat screwdriver. Insert the ribbon cable so that the reinforced end faces the back of the guitar. Once fully inserted, gently close the latch to secure the cable. Do not use excessive force.

The LEDs are not flashing. Is my device faulty?
The controller may be in Economy Mode. In this mode, LED effects and the standby LED cycle are disabled to reduce power consumption. To enable or disable Economy Mode, press and hold the Hold button while powering on the unit. Keep the button pressed during startup, then release it and restart the controller.

XY MIDIpad powers on, but behaves erratically or sends incorrect MIDI messages.
A weak battery is the most common cause of unexpected behavior. Replace the battery with a fresh 9 V (6F22 / 6LR61) battery and test the controller again.

The touchscreen is not responding.
Check that the touchscreen ribbon cable is fully inserted into its connector and that the connector latch is closed.

My MIDI device does not react to XY MIDIpad.
Verify that the MIDI cable is connected correctly and that the target device is configured to receive MIDI messages. Also make sure the selected XY MIDIpad mode is compatible with the device being controlled.

The touchscreen appears scratched.
The touchscreen and frame are protected by a removable film during shipping. Make sure the protective film has been removed before use.

The touchscreen does not seem responsive.
The XY MIDIpad touchscreen operates differently from a Korg Kaoss Pad or a typical smartphone touchscreen and requires slightly more pressure to activate.

Can I install XY MIDIpad in any electric guitar?
XY MIDIpad can be installed in many solid-body electric guitars, provided there is sufficient space for the controller unit and the touchscreen.

Congratulations on purchasing **XY MIDIpad**, a touchscreen MIDI controller.

WHAT IS XY MIDIPAD?

XY MIDIpad is a MIDI controller mounted in an electric guitar body. It enables the user to control any MIDI device using the controller's touchscreen.

COMPATIBILITY

XY MIDIpad is designed to work with the following devices:

- **Korg Kaoss Pad KP2**
- **Korg Kaoss Pad KP3**
- **Korg Kaoss Pad KP3+**
- **Korg Kaossilator Pro**
- **Korg Kaossilator Pro+**
- **DigiTech Whammy 4**
- **DigiTech Whammy 5**
- **DigiTech Whammy DT**
- **DigiTech Bass Whammy**
- **MIDI synthesizers**
- **MIDI drum synths and samplers**

XY MIDIpad will also work with any MIDI software or hardware, as long as it responds to its MIDI messages.

INCLUDED ITEMS

Items included in the box:

- **XY MIDIpad controller unit**
- **Touchscreen**
- **Touchscreen frame**
- **Light diffuser plate**
- **Pushbutton switch**
- **Rotary encoder (with pushbutton)**
- **MIDI connector**
- **Power toggle switch**
- **Battery clip**
- **Screw set**
- **QR code to access user manual**

MORE INFORMATION

For more information on XY MIDIpad, please contact us or visit our website at **www.amptonelab.com**.

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