



## ***miditech Garagekey Groove***



### ***Class Compliant USB MIDI Controller Keyboard***

#### ***Features:***

25 velocity-sensitive minikeys

8 velocity-sensitive triggerpads

4 free assignable v-pots

4 free assignable faders

4 banks for user settings

Buttons for octave up/down, pitch up/down, modulation, program change

PC and Mac editor software available

Class compliant for Win XP/Vista/7/8 and Mac OSX

Full software licenses included (download versions) - Magix Samplitude Silver,

Toontrack EZ Drummer Lite, Makemusic Finale Notepad, IK Multimedia's Amplitube CS and Imagelines Poizone Synthesizer

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## Introduction

Thank you for purchasing the Miditech Garagekey Groove USB MIDI controller keyboard. To help you get the most out of your new instrument, please read this manual carefully.

In order to use the functions of this product, you'll need to make settings in the application you're using. Make settings as described in the owner's manual for your application.

## Features

- 8 Trigger Pads with velocity and assignable to controllers, with 3 velocity curve and one constant velocity.
- 25 keys with velocity assignable to controllers, with 3 velocity curve and one constant velocity
- 4 assignable control knobs
- 4 assignable control sliders
- 4 banks for different settings
- USB interface, adaptable to USB 2.0(FULL SPEED). Power supplied by USB.
- Compatible with Windows XP/Vista/7/8 and Mac OSX. Drive free and hot-plug supported.
- Edited by the Garagekey Groove Editor

## *Parts and their functions*



### **1. Trigger pads**

These pads can transmit note messages or control change messages.

### **2. Keyboard**

There are twenty-five velocity-sensitive keys that can transmit note messages. When CC mode is on, they transmit control change messages.

### **3. MIDI control group**

A knob, slider, are collectively called a MIDI control group. The Garagekey Groove has 4 MIDI control groups.

**a. Knobs** This knob transmits control change messages.

**b. Sliders** This slider transmits control change messages.

### **4. [OCTAVE DOWN] / [OCTAVE UP]**

The [◀] button and the [▶] button can be used to adjust the octave acquiescently. The pitch will shift downward by one octave each time you press the [◀] button. The pitch will shift upward by one octave each time you press the [▶] button.

## 5. Bank button

The Garagekey Groove has four banks. When bank button is on, you can use the the [◀] button and the [▶] button to switch the four banks. A “bank” is a set of parameter assignments for the controllers (pads and knobs, etc.). You can use the Garagekey Groove Editor to change the assignment of each controller. (→ “Making detailed settings”)

## 6. Program button

When program button is on, you can use the the [◀] button and the [▶] button to change the program.

## 7. [PITCH DOWN] / [PITCH UP]

The [PITCH DOWN] button and the [PITCH UP] button can be used to send a note’s pitch up or down in cents.

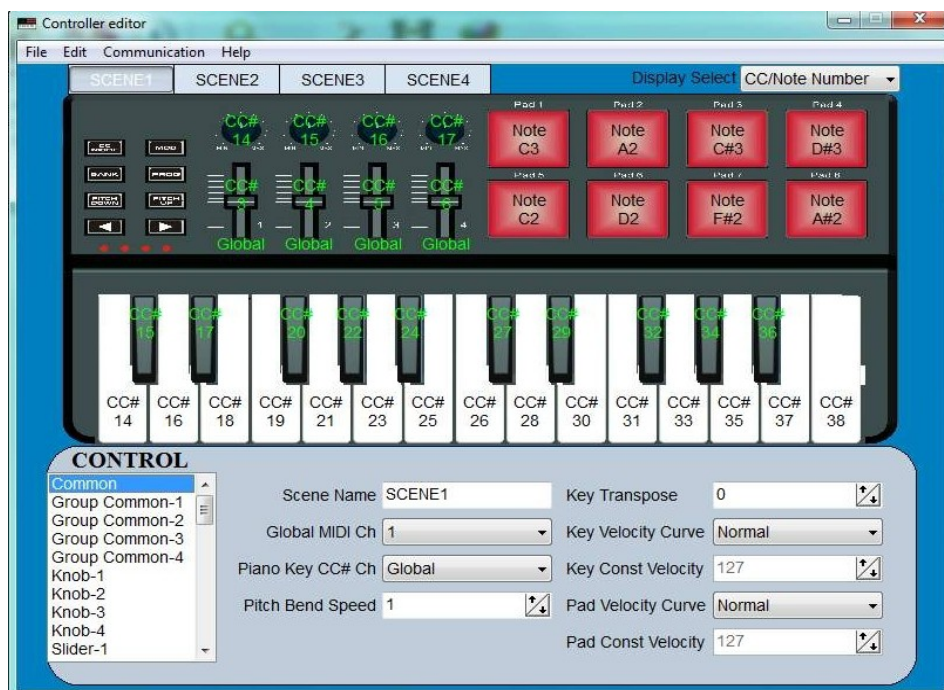
## 8. Modulation button

The MOD button is used to introduce some sort of vibrato effect.

## 9.USB connector

Connect the Garagekey Groove to your computer with a USB cable via this port.

### *The Garagekey Groove editor window*



## ●Making detailed settings

The following settings cannot be edited on the Garagekey Groove instrument, so you need to use the Garagekey Groove control Editor. You can download the Garagekey Groove control Editor from the Miditech homepage [www.miditech.de](http://www.miditech.de).

### ***Global MIDI channel***

Global MIDI channel [1...16] This specifies the MIDI channel which Garagekey Groove will use to transmit note messages. This should be set to match the MIDI channel of the MIDI application that you're controlling.

### ***Keyboard CC mode channel***

Piano keyboard CC mode channel is to specify which MIDI channel the keyboard will use to transmit control messages.

### ***Transpose***

It is to adjust the pitch by semi-tone, adjusting scale of the value is -12~12.

### ***Pitch bend speed***

It is to adjust the speed of the pitch up or down, adjusting scale of the value is 1~4.

### ***Key velocity curve***

It has 3 velocity curves, the light, the normal and the heavy, if choose the CONST, the velocity value is const to 127

### ***Pad velocity curve***

It has 3 velocity curves, the light, the normal and the heavy, if choose the CONST, the velocity value is const to 127

## **Trigger pads**

Depending on the assign type, the trigger pads can transmit note messages or control change messages. For each trigger pad, you can individually specify the assigned message, the MIDI transmit channel, the behavior of the trigger pad, the note number, the control change number, the values transmitted when the pad turns on or off.

Depending on its assign type, note number or control change number can be assigned to a single trigger pad and transmitted. If you transmit note messages or control change message from a trigger pad, all of the messages will be transmitted at the velocity or On Value/Off Value.

**MIDI Channel [1...16/Global MIDI Channel] MIDI** This specifies the MIDI channel of the MIDI messages that are transmitted when you strike the trigger pad. If you set this to “Global MIDI Channel,” the messages will be transmitted on the global MIDI channel.

**Assign Type [No Assign/Note/Control Change]**

This specifies the type of message that will be assigned to the trigger pad. You can disable the pad (no assignment), or assign a note message or a control change.

**Pad Behavior [Momentary/Toggle]**

You can choose one of the following two types of behavior for the trigger pad.

**Momentary** The Note On or On Value will be transmitted when you press the trigger pad, and the Note Off or Off Value will be transmitted when you release it.

**Toggle** The Note On or On Value will be transmitted alternately with the Note Off or Off Value each time you press the trigger pad.

**Note Number [C-1...G9/No Assign]**

This specifies the note number of the note message that is transmitted.

**Control Change Number [0...127/No Assign] [0...127]** This specifies the control change number of the control change message that is transmitted.

**On Value [0...127]** This specifies the value of the message that is transmitted when the trigger pad turns on.

**Off Value [0...127]** This specifies the value of the message that is transmitted when the trigger pad turns off.

You can set this only if the assign type is “Control Change.”

**Knobs**

Operating a knob will transmit a control change message. You can enable/disable each knob, specify its control change number, and specify the values transmitted when the knob is turned fully left or fully right..

**Knob Enable [Disable/Enable]**

Enables or disables the knob. If you’ve disabled a knob, turning it will not transmit a MIDI message.

**Control Change Number [0...127]**

Specifies the control change number of the control change message that is transmitted.

**Left Value [0...127]**

Specifies the value of the control change message transmitted when you turn the knob all the way to the left.

**Right Value [0...127]** Specifies the value of the control change message transmitted when you turn the knob all the way to the right.

## Sliders

Operating a slider will transmit a control change message. You can enable/disable each slider, specify its control change number, and specify the values transmitted when the slider is moved fully upward or fully downward.

### **Slider Enable [Disable/Enable]**

Enables or disables the slider. If you've disabled a slider, moving it will not transmit a MIDI message.

### **Control Change Number [0...127]**

Specifies the control change number of the control change message that is transmitted.

### **Upper Value [0...127]**

Specifies the value of the control change message transmitted when you move the slider all the way upward.

### **Lower Value [0...127]**

Specifies the value of the control change message transmitted when you move the slider all the way downward.

## Keyboard operation in Edit mode

The twenty-five keys of the keyboard will function as independent buttons to transmit control change messages. You can specify which MIDI channel the control change message is transmitted on, whether or not each key is enabled, the key type, the control change number, as well as the On and Off value.

### **CC MIDI Channel [1...16]**

This specifies the MIDI channel that control change messages will be transmitted on. Set this to match the MIDI channel of the application you're controlling.

### **Key Enable [Disable/Enable]**

Enables or disables the key. If a key is disabled, operating that key will not transmit a MIDI message.

### **Key Behavior [Momentary/Toggle]**

Selects one of the following two modes:

**Momentary** Pressing the key will send a control change message with the On value, releasing the key will send a control change message with the Off value.

**Toggle** Each time you press the key the control change message will alternate between the On value and the Off value.

### **Control Change Number [0...127]**

Specifies the CC number of the control change message that will be transmitted.

### **On Value [0...127]**

Specifies the On value of the control change message.

### **Off Value [0...127]**

Specifies the Off value of the control change message.

### ***Specifications***

Connectors: USB connector (mini B type)

Power supply: USB bus power mode

Current consumption: 100 mA or less

Dimensions (W x D x H): 12.6 x 7.5 x 1.6 inches / 320 x 190 x 40 mm

Weight: 28 oz / 800 g

Included items: USB cable

**\*Specifications and appearance are subject to change without notice.**

### **Minimum System Requirements**

<b>Windows</b>	<b>Mac OS</b>
Pentium 3 800 MHz or higher	Macintosh G3*800/G4*733 MHz or higher
(CPU requirement may be higher for laptops)	(CPU requirement may be higher for laptops)
256MB RAM	OS X 10.3.9 with 256 MB 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)	

Further information on extensions, updates and other products from Miditech please check out our homepage <http://www.miditech.de!>



## *Standard Midi Controller (CC) numbers*

0 Bank Select	32 Bank Select LSB
1 Modulation	33 Modulation LSB
2 Breath Controller	34 Breath Controller LSB
3 Controller 3 (undefined)	35 Controller 35 (undefined)
4 Foot Controller	36 Foot Controller LSB
5 Portamento Time	37 Portamento Time LSB
6 Data Entry MSB	38 Data Entry LSB
7 Channel Volume (formerly Main Volume)	39 Channel Volume LSB
8 Balance	40 Balance LSB
9 Controller 9 (undefined)	41 Controller 41 (undefined)
10 Pan	42 Pan LSB
11 Expression	43 Expression LSB
12 Effect Control 1	44 Effect Control 1 LSB
13 Effect Control 2	45 Effect Control 2 LSB
14 Controller 14 (undefined)	46 Controller 46 (undefined)
15 Controller 15 (undefined)	47 Controller 47 (undefined)
16 General Purpose 1	48 General Purpose 1 LSB
17 General Purpose 2	49 General Purpose 2 LSB
18 General Purpose 3	50 General Purpose 3 LSB
19 General Purpose 4	51 General Purpose 4 LSB
20 Controller 20 (undefined)	52 Controller 52 (undefined)
21 Controller 21 (undefined)	53 Controller 53 (undefined)
22 Controller 22 (undefined)	54 Controller 54 (undefined)
23 Controller 23 (undefined)	55 Controller 55 (undefined)
24 Controller 24 (undefined)	56 Controller 56 (undefined)
25 Controller 25 (undefined)	57 Controller 57 (undefined)
26 Controller 26 (undefined)	58 Controller 58 (undefined)
27 Controller 27 (undefined)	59 Controller 59 (undefined)
28 Controller 28 (undefined)	60 Controller 60 (undefined)
29 Controller 29 (undefined)	61 Controller 61 (undefined)
30 Controller 30 (undefined)	62 Controller 62 (undefined)
31 Controller 31 (undefined)	63 Controller 63 (undefined)

64 Damper Pedal (Sustain)	96 Data Entry +1 (increment)
65 Portamento On/Off	97 Data Entry -1 (decrement)
66 Sostenuto On/Off	98 NRPN LSB
67 Soft Pedal On/Off	99 NRPN MSB
68 Legato Footswitch	100 RPN LSB
69 Hold 2	101 RPN MSB
70 Sound Controller 1 (Sound Variation)	102 Controller 102 (undefined)
71 Sound Controller 2 (Resonance/Timbre)	103 Controller 103 (undefined)
72 Sound Controller 3 (Release Time)	104 Controller 104 (undefined)
73 Sound Controller 4 (Attack Time)	105 Controller 105 (undefined)
74 Sound Controller 5 (Cutoff Frequency/Brightness)	106 Controller 106 (undefined)
75 Sound Controller 6 (Decay Time)	107 Controller 107 (undefined)
76 Sound Controller 7 (Vibrato Rate)	108 Controller 108 (undefined)
77 Sound Controller 8 (Vibrato Depth)	109 Controller 109 (undefined)
78 Sound Controller 9 (Vibrato Delay)	110 Controller 110 (undefined)
79 Sound Controller 10 (undefined)	111 Controller 111 (undefined)
80 General Purpose 5	112 Controller 112 (undefined)
81 General Purpose 6	113 Controller 113 (undefined)
82 General Purpose 7	114 Controller 114 (undefined)
83 General Purpose 8	115 Controller 115 (undefined)
84 Portamento Control	116 Controller 116 (undefined)
85 Controller 85 (undefined)	117 Controller 117 (undefined)
86 Controller 86 (undefined)	118 Controller 118 (undefined)
87 Controller 87 (undefined)	119 Controller 119 (undefined)
88 Controller 88 (undefined)	120 All Sound Off
89 Controller 89 (undefined)	121 Reset All Controllers
90 Controller 90 (undefined)	122 Local Control On/Off
91 Effects 1 Depth (Reverb)	123 All Notes Off
92 Effects 2 Depth (Tremolo)	124 Omni Mode Off
93 Effects 3 Depth (Chorus)	125 Omni Mode On
94 Effects 4 Depth (Celeste/Detune)	126 Poly Mode Off/Mono Mode On
95 Effects 5 Depth (Phaser)	127 Poly Mode On/Mono Mode Off

*Changes of the technical data and the design are possible*  
*No liability is assumed for misprints*