joyMIDI

Portable MIDI Controller

User manual

(Please read the safety instructions and notice before use.)

V0.1

https://www.sndlss.com/
Content

1. Safety instructions ................................................................. 1

2. Notice .................................................................................. 1

3. Features .............................................................................. 2

4. Specification .......................................................................... 3

5. Accessories ........................................................................... 4

6. Plug In .................................................................................. 5

   6.1. Connect to Android .......................................................... 5

   6.2. Connect to iPhone/iPad .................................................. 6

   6.3. Connect to Windows ....................................................... 7

   6.4. Connect to Macbook ....................................................... 8

7. Operating mode ..................................................................... 9

   7.1. Keyboard mode ............................................................. 9

   7.2. Drum pad mode ............................................................ 10

   7.3. DJ controller mode ........................................................ 11

   7.4. Game controller mode .................................................... 16

   7.5. Configure software mode ............................................. 17

8. Configure software .............................................................. 18

   8.1. Connect ........................................................................ 18

   8.2. Device page ................................................................... 19

   8.3. Assign page (Configure page) ........................................ 20

   8.4. Replace the Intro (startup screen) and ICONs ............... 21

   8.5. Setup the messages for MIDI ...................................... 22

   8.6. Setup the LEDs for MIDI ............................................. 23

   8.7. Setup the color LED light-guide-strip for MIDI .......... 24

   8.8. Joystick calibration for MIDI ...................................... 25

   8.9. Setup the message for HID-Joystick ........................... 26

9. Testing .................................................................................. 27

   9.1. MIDI testing ................................................................. 27

   9.2. HID-Joystick testing ................................................... 28

10. Troubleshoot ...................................................................... 29

11. Revision .............................................................................. 30
1. Safety instructions

- This controller is a DIY device. If you have any safety concerns, please do not purchase.
- Children under 6 years of age do not use.
- Anyone who causes damage or safety problems due to modification activities, Soundless Studio will not be liable for damages.

2. Notice

- The housing made by 3D printing (PLA material), do not use in environments above 65°C.
- There may be special textures and small flaws in the housing of 3D printing.
- Not waterproof.
- Do not fall, bend, burn, or soak.
- We will continually improve our products and retain or modify certain features, specifications and the rights of this manual without prior notice.
3. Features

- Portable.
- Support for smartphone, tablet and PC.
- Compatible with various MIDI software.
- OLED display.
- Build-in Accelerometer.
- Build-in one Pressure button.
- USB TYPE-C, USB bus power.
- MIDI-IN 2.5mm Audio TRS.
- Dedicated configure software.
- 4 operating modes :

- Keyboard : Piano key、Octave、Sustain、PitchBend、Modulation.
- Drum pad : 64 pads by 4 keys Bank switching.
- DJ controller : Support free DJ software – Mixxx.
- Game controller : USB HID Joystick for game.
4. Specification

- Silicone button: Button x20, Pressure x1, LED backlight x20
- Analog joystick (up/down/left/right/center)
- Analog fader
- Jog (Rotary encoder) x2
- Accelerometer
- OLED display
- Color LED light guide strip
- Ports: USB TYPE-C, MIDI-IN 2.5mm Audio TRS
- Power: USB bus power, Power consumption less than 100 mA
- Dimensions: 160x78x36 mm
- Support OS: Android, iOS, Mac, Windows
- Support MIDI: Note, CC (Absolute/Relative), PitchBend, MMC, ChannelPressure, ProgramChange, TimingClock, UserDefined
- Support USB HID Joystick: Buttons, X/Y, T/R, POV
5. Accessories

- USB TYPE-C cable – USB 2.0 compatible
- MIDI cable - dual 2.5mm Audio TRS
- Anti-slip pad
6. Plug In

6.1. Connect to Android

1. Plug in USB cable to Android phone by OTG adaptor (USB Type-A to Micro-B/Type-C).

2. The controller’s LED light up and display startup screen, enter the operating mode menu.

(Trademark owned by Google)
6.2. Connect to iPhone/iPad

1. Plug in USB cable to iPhone/iPad by Apple camera adaptor (USB Type-A to Micro-B/Type-C)

2. The controller’s LED light up and display startup screen, enter the operating mode menu

(Trademark owned by Apple)
6.3. **Connect to Windows**

1. Plug in USB cable to Windows PC.

2. The controller’s LED light up and display startup screen, enter the *operating mode* menu

(Trademark owned by Microsoft)
6.4. Connect to Macbook

1. Plug in USB cable to Macbook. Depends on model, a USB Type-C adaptor may be required.

2. The controller’s LED light up and display startup screen, enter the operating mode menu

(Trademark owned by Apple)
7. Operating mode

7.1. Keyboard mode

- Press button to enter the keyboard mode

- Function
7.2. Drum pad mode

- Press button to enter the drum pad mode

- Function

```
User 1 (CC14) => User3 (CC16)  Accel On
-> User4 (CC17)   <- Pan (CC10)
↓ User5 (CC18)  → Pan (CC10)
↑ User6 (CC19)  ↓ None

Button-Acel On/Off ↑ None

Modulation (CC1)

User 2 (CC15)
```

Bank 1
Pad 01-16

Bank 2
Pad 17-32

Bank 3
Pad 33-48

Bank 4
Pad 49-64
7.3. DJ controller mode

- Press button to enter the DJ controller mode

- Function: (Next page)
- **Bank2:**

![Diagram of Bank 2 controls]

- **Files/Playlist control**
- **Hot cue 1**, **Hot cue 2**, **Hot cue 3**, **Hot cue 4**
- **Shift**, **Filter low**, **Filter middle**, **Filter high**
- **Crossfader**

**Deck A**

- **Shift**
- **Clear**
- **Filter low control**

**Deck B**

- **Shift**
- **Clear**
- **Filter middle control**

**Button + Jog**

- **Clear**
- **Filter high control**

**Additional controls**

- **Jog A**, **Jog B**, **Scratch**
- **Bank 2**
- **Files/Playlist toggle**
Bank 3:

Crossfader

Files/Playlist control

Files/Playlist toggle

1/8 bar loop 1/4 bar loop 1/2 bar loop 1 bar loop 1/8 bar loop 1/4 bar loop 1/2 bar loop 1 bar loop

Shift Reloop Loop in Loop out Shift Reloop Loop in Loop out

Deck A Deck B

Shift + Button

2 bar loop 4 bar loop 8 bar loop 16 bar loop 2 bar loop 4 bar loop 8 bar loop 16 bar loop

Beatloop activate Loop half Loop double Beatloop activate Loop half Loop double

Deck A Deck B

Button + Jog

Deck A Deck B
Bank 4:

- **Files/Playlist control**
- **Sampler 1 play**
- **Sampler 2 play**
- **FX 1**
- **FX 2**
- **Sampler 3 play**
- **Sampler 4 play**
- **FX 1**
- **FX 2**

- **Shift**
- **Load song**
- **User define**
- **User define**
- **Shift**
- **Load song**
- **User define**
- **User define**

- **Shift + Button**
- **Sampler 1 stop**
- **Sampler 2 stop**
- **Sampler 3 stop**
- **Sampler 4 stop**
- **Shift**
- **Eject song**
- **Shift**
- **Eject song**

- **Button + Jog**
- **FX 1 Mix knob control**
- **FX 1 Super knob control**
- **FX 1 Mix knob control**
- **FX 1 Super knob control**
7.4. Game controller mode

- Press button to enter the game controller mode

- Function

![Diagram of game controller mode and function labels]
7.5. **Configure software mode**

- Press button into the configure software mode

- Display the link status

  - Connect to PC
    - disconnect
  - Connect to PC
    - connected
8. Configure software

Software download:  www.sndlss.com/download

8.1. Connect

1. Following the 7.5 Configure software mode and the display will show not connect yet:

   ![Connect to PC]

2. Launch the software:

   ![joyMIDI.exe]

3. Display show connected:

   ![Connect to PC]

   (Please reconnect the controller or reopen the software if it is still not connected)
8.2. Device page
8.3. Assign page (Configure page)

1. Load param
2. Select the operating mode to be set
3. Check the UI display
4. Select the modifier
5. Setup param
6. Save param
8.4. Replace the Intro (startup screen) and ICONs

1. Click

2. Select picture

3. Save
8.5. Setup the messages for MIDI

Buttons, Pressure button, Jog (Rotary Encoder), Joystick, Fader, Accelerometer

1. Click
2. Modify
3. Save
8.6. Setup the LEDs for MIDI

1. Click

2. Modify

3. Purple box represents LED On

4. Save
8.7. Setup the color LED light-guide-strip for MIDI

Color LED light-guide-strip will twinkling follow the MIDI Timing Clock

1. Click
2. Pop up color picker
3. Testing the LED real color
4. Save
8.8. Joystick calibration for MIDI

Do not touch joystick while calibration

1. Click

2. Calibrate

3. Save
8.9. Setup the message for HID-Joystick

1. Click
2. Configure
3. Save
9. Testing

9.1. MIDI testing

- Download the freeware WindSYNTHberry from Microsoft store
9.2. HID-Joystick testing

- Windows 10:

  All settings > Devices > Devices and printers > HID DEVICE > (Right click menu) >

  Game controller settings > Properties
10. Troubleshoot
## 11. Revision

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