



MIDI-Thru – MIDI signal splitter with optional battery operation

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USER MANUAL

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1. Description of the device

The MIDI-Thru is a MIDI splitter with one input and seven outputs.

It is designed to connect several MIDI devices (synthesisers, modules, drum machines, etc.) to a MIDI signal source (e.g., a computer or sequencer). The device provides reliable communication with minimal latency.

MIDI-Thru is compatible with any MIDI equipment.

The device could be powered with any power source or charger that has a Micro-USB connector and can provide 5 volts of output voltage. Autonomous operation is possible when a rechargeable battery is installed.

Battery life depends on its capacity and can last up to several days of continuous use.

2. Main technical characteristics

DC supply voltage, V	5V
Battery type	LiOn 3,7V; IRC 10440B (AAA); IRC 14500C (AA)
Consumption electric current, A	0,01A
Maximum charge current, A	1A

3. Connectors and controls

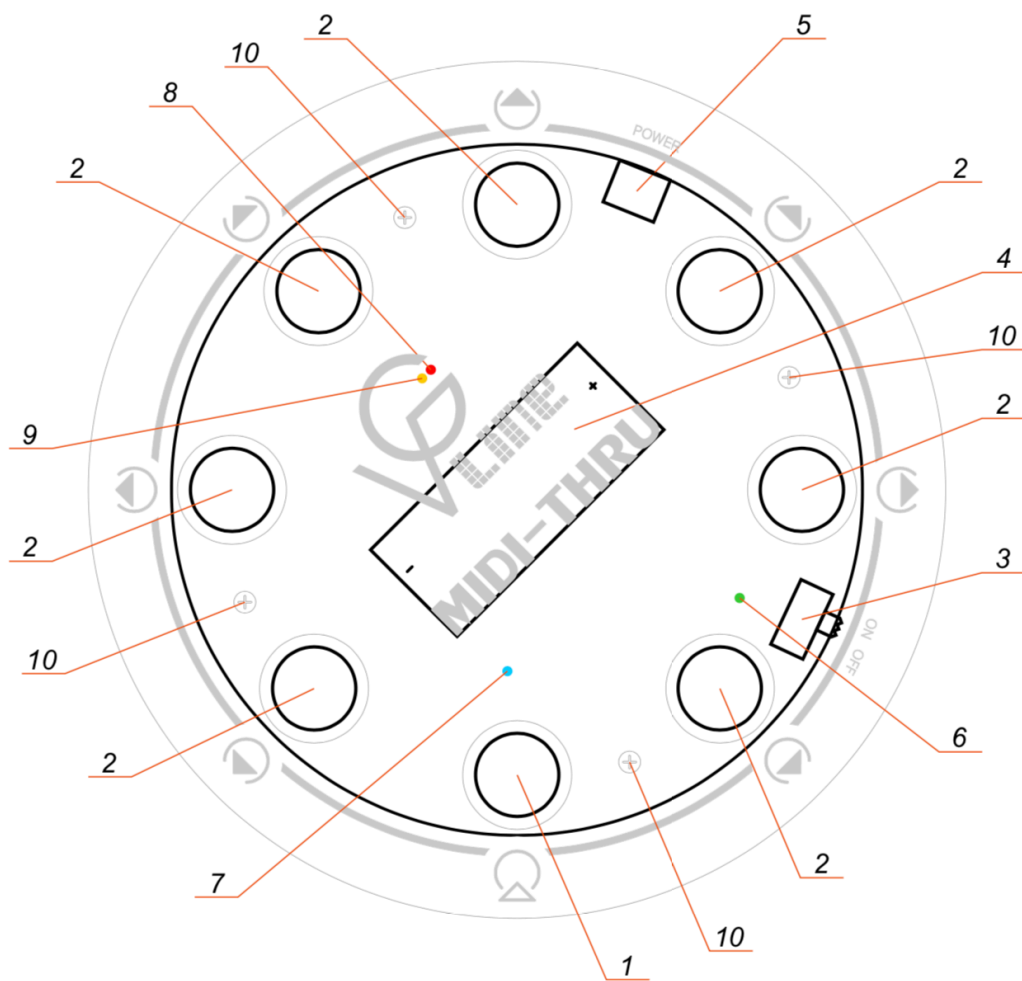


Fig. 1

1. MIDI signal input connector (MIDI IN)
2. MIDI signal output connectors (MIDI THRU)
3. Power switch (ON/OFF)
4. Compartment for installing 3.7 volt LI-On battery *
5. Power/Charge adapter connector (POWER)
6. "Power on" indicator (green) (ON)
7. MIDI activity indicator (blue) (MIDI ACTIVITY)
8. "Battery charging" indicator (red) (BATT CHARGE)
9. "Battery full" indicator (yellow) (BATT FULL)
10. Upper protective cover fixing screws

4. Before use

4. 1. Connecting external devices and powering on order

Remove the MIDI-Thru from the package, make sure that the power switch (3) is in the “OFF” position.

Connect MIDI-Thru power connector (5) to USB-A port of any device (eg. PC, Power Bank or a mobile phone charger) via Micro-USB cable.

Connect the MIDI In jack (1) to the source of MIDI messages, and the MIDI-Thru jacks (2) to the devices that receive MIDI messages.

Flip the power switch (3) to the “ON” position, and the power-on indicator will light up. MIDI-Thru is ready to go.

4. 2. Battery option

MIDI-Thru can operate autonomously when a 3.7V Li-ion battery (4) is installed.

Operating procedures are the same as when an external power supply is connected. The battery is charged automatically when the power cable is connected to the power connector (5), regardless of the power switch position (3).

The charging process can be monitored by the indicators: red (8) - the charge is in progress, yellow (9) - the charge is over.

When the battery charge is depleted, MIDI-Thru will turn off automatically.

When the device is not in use, turn the power switch (3) to the “OFF” position to avoid battery discharge.

4. 3. Installing and replacing the battery

If you are reading this manual, there's a good chance that the device came to you without pre-installed battery. It happened due some law regulations. If you got a device with an empty battery compartment and you want battery operation, you'll have to purchase and install the appropriate battery yourself.

To do so, simply follow instructions below. You will also need these instructions to replace a dead battery.

ATTENTION!

Do not use ANY power supply elements that are not specified in this manual. This may result in a device failure or overheating of the battery!

MIDI-Thru is designed to work with lithium-ion rechargeable batteries with voltage of 3.7V and current up to 1000 mA/h. There could be an AA or AAA compartment:

Compartment type	Battery type you need
AA	IRC10440B
AAA	IRC14500C

To install or replace the battery, you will need to unscrew 4 screws (1) from the stands (4) using a PH1 screwdriver (not included in the kit) and remove the top cover (2).

Insert the battery (3) into the compartment (5) minding the polarity (“-” battery contact goes to the spring side) and mount the protective cover back on.

You can check that you installed the cover correctly by the ON / OFF etching, it must be located just above the power switch (6).

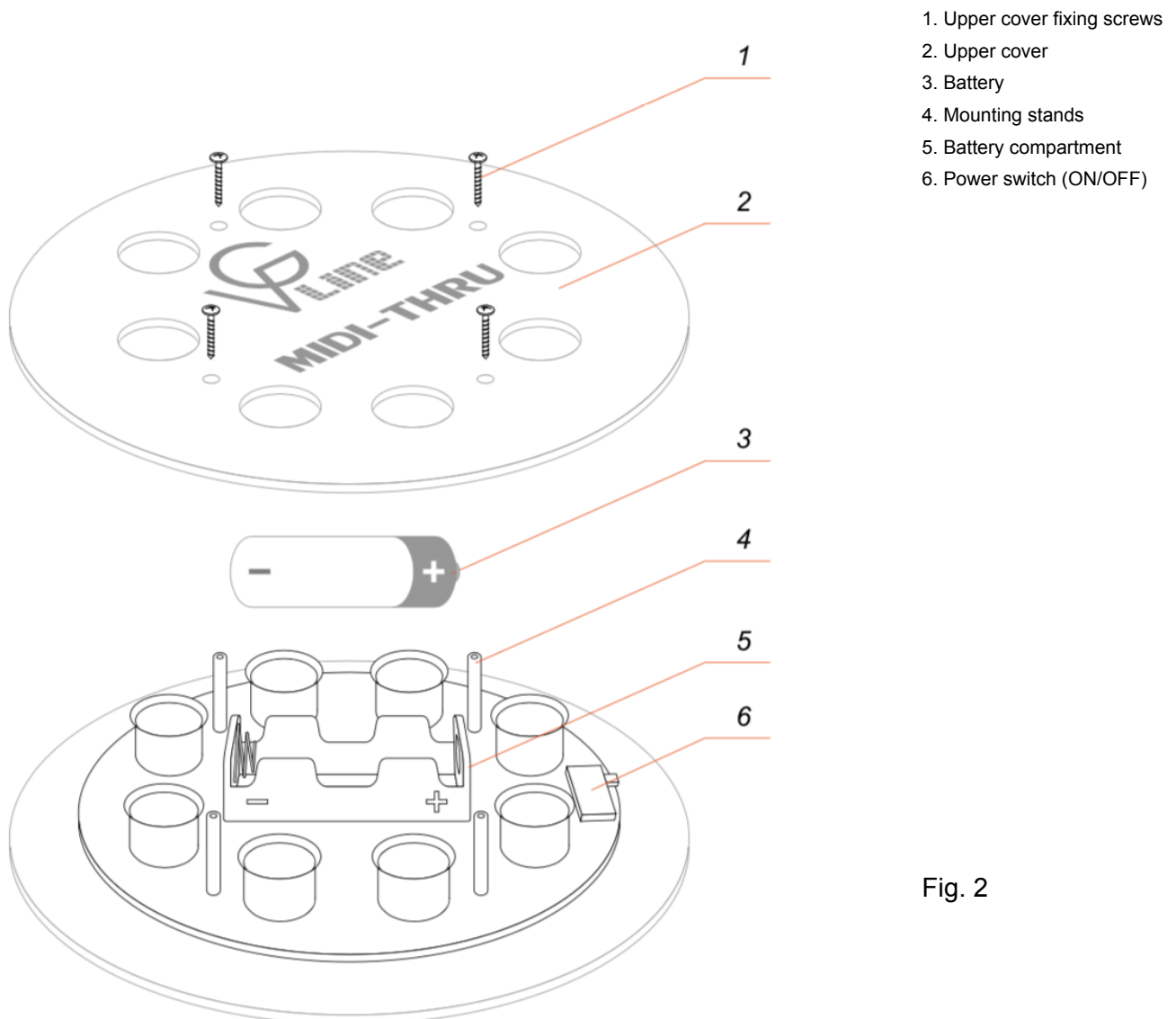


Fig. 2

5. Operation procedure

5.1. Work in active mode

MIDI messages received by the MIDI input (1) are transmitted without any changes to the outputs (2) of MIDI-Thru.

MIDI activity is indicated by the traffic indicator (7), which lights up blue when a new message is received.

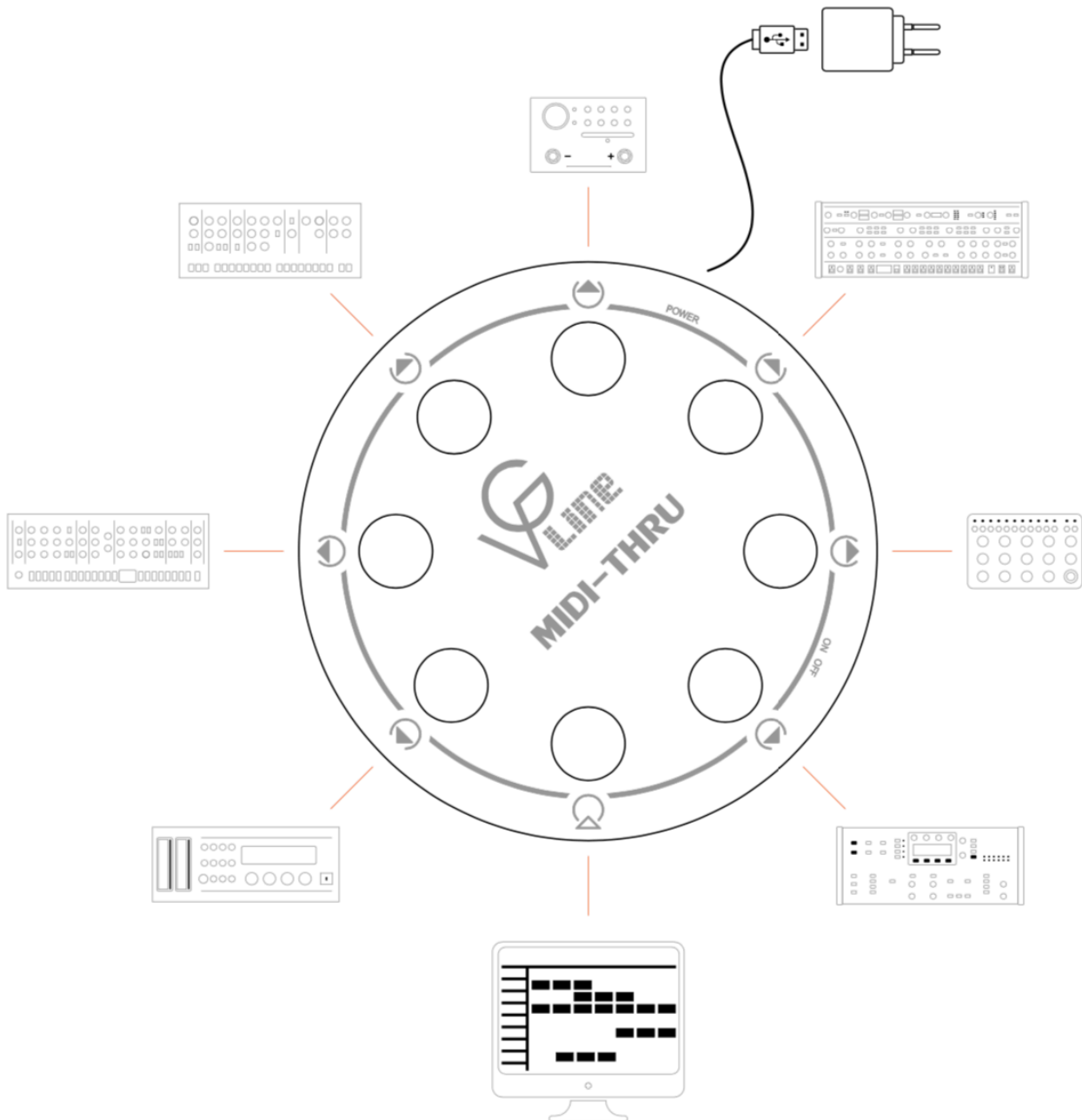


Fig. 3