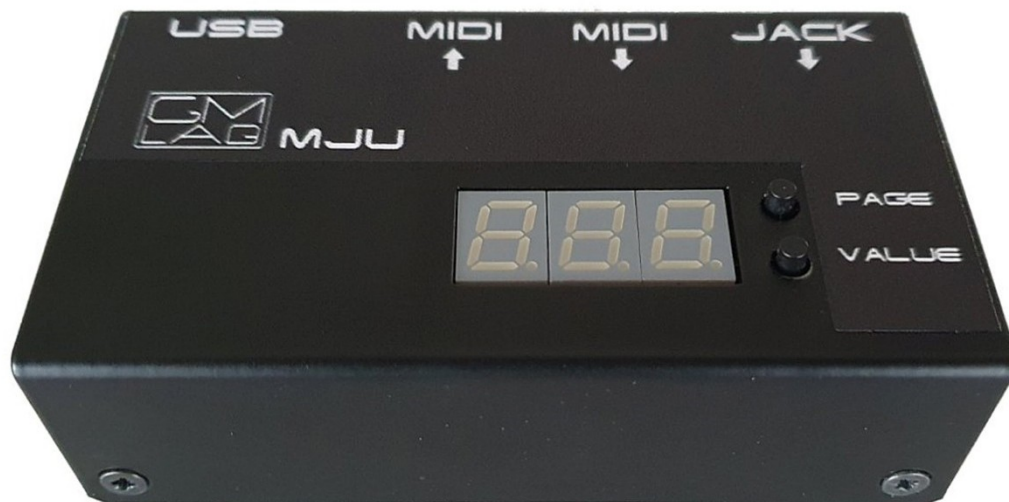


# CRUMAR<sup>®</sup>



## **MJU** Midi-Jack USB



## USER MANUAL

*Congratulations! You are now the owner of MJU - MIDI jack USB MIDI event processor. Please read this manual in its entirety and keep it in a safe place for future reference! Have fun!*

*Crumar MJU is a smart MIDI-USB device capable of "translate" events such as what is happening in the TRS JACK input into MIDI messages or it's able to translate MIDI messages coming from the MIDI IN port. MJU has one TRS JACK onboard plus one MIDI IN (near the TRS jack), one MIDI OUT (near the micro USB connector) and one micro USB connector. The USB interface of MJU is "class compliant" and can be use like a MIDI IN/OUT or, in case of serial MIDI connection, can be used for power on the device with a simple phone charger.*

*MJU has a 3-digit display and 2 buttons used for navigate and confirm the values of the menu (upper for page selection, lower for value selection).*

### *What you can do with MJU:*

*The classic example is the "conversion" of a analog jack expression pedal into MIDI messages. You would like to have your expression pedal sending MIDI datas out: just connect you pedal into the jack input of MJU, select and configure MJU and you will be able to send out MIDI messages from your expression pedal.*

*Another example can be the multiple compatibility of one device (like halfmoon). Let's say you have halfmoon for Mojo Organ but you would like it to be compatible with another instrument... just connect the halfmoon to MJU, set it and you will have out from it the MIDI message/messages required.*

*Last but not least: you can convert your "lower manual for Mojo61" to a fully working keyboard: Just connect MJU to Lower manual with the original MIDI cable of Lower Manual, then connect the micro USB cable to a computer and you have MIDI messages of Note on/off. You can also use the MIDI OUT connector for this, just be sure to power MJU with its USB cable and a power adaptor. MJU will give power to lower manual and will translate MIDI messages*

## CRUMAR MJU - SPECIFICATIONS:

- USB-MIDI-JACK event processor.
- 3-digit display.
- 2 Program button.
- One TRS 6.3 jack input.
- MAB5 - MIDI IN.
- MAB5 - MIDI OUT.
- Micro-usb connector .
- USB-MIDI capable.
- Class compliant and bus powered - max 500mA.
- Can be powered with a phone charger.
- Based on Arduino platform. Re-programmable.
- Solid Metal constructions.

## DEFAULT FIRMWARE INSTALLED FUNCTIONS:

- Upper button is page navigation.
- Lower button is value select.
- Menu pages:
  - trS: EP1 (wiper on tip), EP2 (wiper on ring), HMC (halfmoon Crumar), HMM (halfmoon generic), SPP (sustain pedal positive), SPn (sustain pedal negative).
  - tyP: CC (control change), PC (program change), not (note on).
  - CHn: select midi channel from 1 to 16.
  - nUM: select number of midi message.
  - vEL: select if lower manual will send out MIDI note messages with or without velocity.
  - tSP: select the amount of transpose for lower manual (+/-12 semitones)
  - mOn: monitor for device connected to Jack.

## NOTES ON ARDUINO:

*What is Arduino?*

*Arduino is an open-source electronics platform based on easy-to-use hardware and software. Arduino boards are completely open-source, empowering users to build them independently and eventually adapt them to their particular needs. The software, too, is open-source, and it is growing through the contributions of users worldwide.*

*What does this mean?*

*This means that the heart of MJU is based on a open-source platform and the project is open to everyone.*

*As a finished product, MJU works with the specifications written in this manual: feel free to explore the world of Arduino but keep in mind that we don't offer support on coding or hardware modifications of MJU. You can always ask the Arduino community that is everyday growing and always very helpful!*

*You can find project files and source codes here:*

[https://github.com/ZioGuido/GMLAB\\_MJU](https://github.com/ZioGuido/GMLAB_MJU)

*Informations on Arduino here:*

<https://www.arduino.cc/>

*For more informations please visit [www.crumar.it](http://www.crumar.it)*

*All trademarks used herein are the property of their respective owners.*

*Crumar is a trademark owned by:*

*V.M. Connection*

*Via Lucio Vero, 2 - 31056 Roncade (TV) - Italy  
[www.Crumar.it](http://www.Crumar.it)*

*Last update: September 2024*