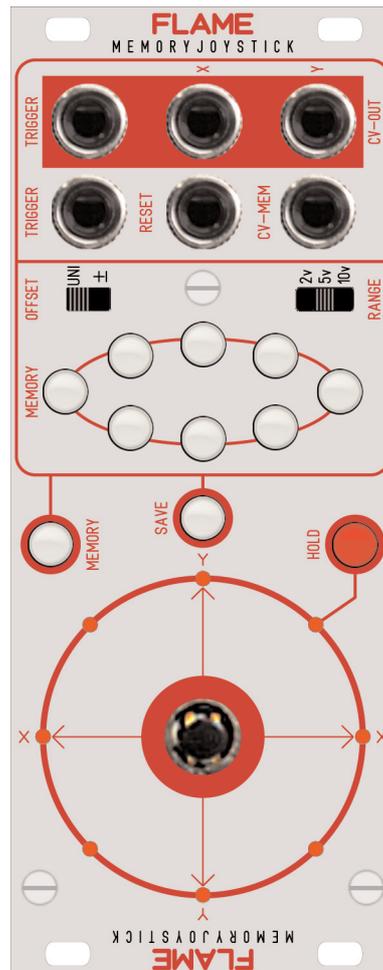


# FLAME

## MEMORY JOYSTICK EURO MODUL



# MANUAL

Version 1.02

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# 1. Short description

First of all congrats on your purchase of the Flame Memory Joystick!

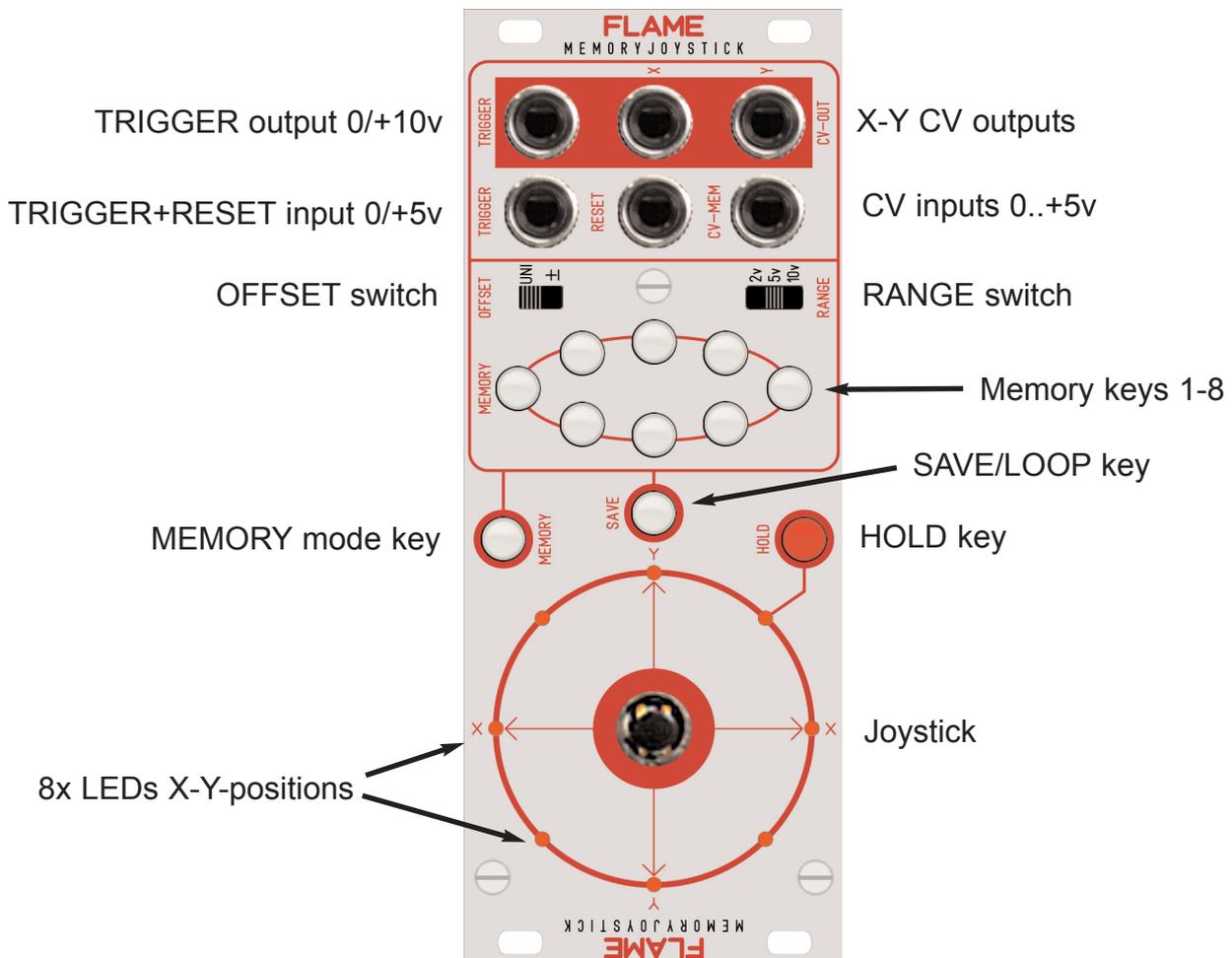
The M-Joy is a versatile little CV tool, usable as classic manual controller (for CV generation and manipulation) as well as a simple CV recorder and especially as an 8-step sequencer! We hope you enjoy this great little helper as much as we do!

Beforehand: The standard way you'd use the M-Joy is joystick down, outputs up.

You can of course mount it 180° as well. If so, don't forget to engage the little black switch on the back of the module, this will invert the X & Y outputs and also shift the starting position of the sequencer by four steps.

# 2. Hardware / Connection

## 2.1. Module overview

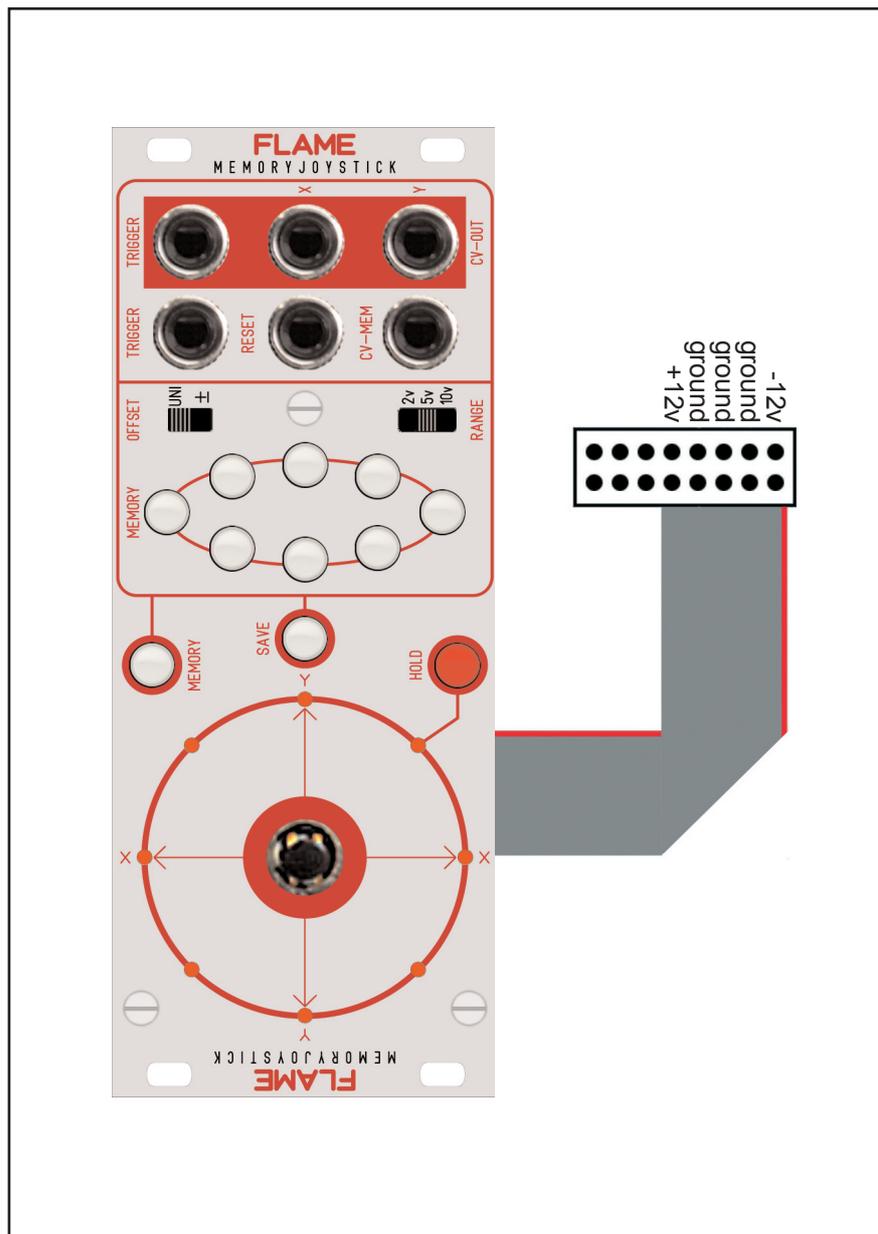


## 2.2. Connection to the modular system (Doepfer Bus)

The module is delivered with a connected ribbon cable for the Doepfer bus. The red lead marks -12 volt. Connecting the module please note the right polarity!

If the module is poled accidentally wrong safety diodes avoid the immediate destruction of the module but further damages cannot be expected.

**So please pay attention: Check the connection various times before switching on!**



## 3. Modi

### 3.1. MANUAL MODE

After powering on your rack you'll always start in MANUAL MODE.

Moving the joystick generates CV at the X and Y output. The CV RANGE can be set (2, 5 or 10 volts) by the little black switch on the upper right of the module. On the other side you'll find the OFFSET switch, in order to switch from unipolar to bipolar.

Pressing HOLD will freeze the current position.

Your movements are always being recorded in the background (samplerate is about 100Hz) in order to replay short CV loops (max. ca. 3 seconds). As it's being recorded, the SAVE button is blinking to indicate recording. By pushing SAVE (it will be lit permanently now) you can replay you recorded CV and of course freeze it by pushing HOLD.

A RESET impulse resets the loop (the save button will blink again).

Pushing SAVE again will bring you back into standard manual joystick mode.

Please note: The loop memory is volatile!

### 3.2. MEMORY MODE

You can activate the memory mode (and sequencer) by pushing MEMORY (lit permanently). In this mode you can use the eight buttons to save eight different joystick positions and adress them either manually or sequentially.

- while MEMORY is lit, push SAVE in order to activate SAVE-MODE
- move your joystick to the desired position and keep it there (or push HOLD)
- select one of the eight slots (#1 is left)
- move your joystick to the next position and repeat (don't forget to push HOLD again)
- finish and exit SAVE-MODE by pushing SAVE again (unlit)

The recently saved eight values can now be adresssed manually by pushing the respective button or sequentially by either inserting a clock to the TRIGGER input or a CV to the CV-MEM input.

MEM-CV-Input:	0..+4,5v	= Step 1..8
	+5v	= Trigger Sequence activ

The TRIGGER-OUT will play a short trigger whenever a step/slot is played!

This memory is non-volatile, you can power off your module and return to the exact setting.

While being clocked (sequence mode) you can choose nine playback PATTERNS by the position of the joystick. This means you can also morph or switch between playback patterns.

You can lock the current playback pattern by pressing HOLD.  
A RESET impulse will of course reset the sequence to step/slot one.

center position: UP-DOWN (PING PONG, PENDULUM)

List of all patterns, starting at 9:00, clockwise:

Position	Name	Sequence
9:00	RANDOM	randomized
10:30	ALTERNATE-1	1-5-2-6-3-7-4-8-1-5-2-6-3-7-4-8
12:00	FORWARD / UP	1-2-3-4-5-6-7-8
1:30	ALTERNATE-2	1-3-7-5-8-4-1-6-2-6-1-4-8-5-7-3
3:00	ALTERNATE-3	1-2-1-3-1-4-1-5-1-6-1-7-1-8-1-5
4:30	ALTERNATE-4	1-2-8-3-7-4-6-5-4-6-3-7-2-8-1-5
6:00	REVERSE / DOWN	8-7-6-5-4-3-2-1
7:30	ALTERNATE-5	1-3-2-4-3-5-4-6-5-7-6-8-7-1-8-2
center	PING-PONG	1-2-3-4-5-6-7-8-7-6-5-4-3-2

# Appendix

## Technical Details

### Connections:

	Ribbon cable adapter for Doepfer bus +/-12Volt
IN-CV 0..5v:	MEM-CV input
RESET:	Reset input
TRIGGER IN:	Trigger/Clock input
TRIGGER OUT:	Trigger output
OUT-X:	CV input X-axis (bipolar/unipolar, max.10V)
OUT-Y:	CV input Y-axis (bipolar/unipolar, max.10V)

**Current consumption:** ca. + 60mA / - 5mA

**Size:** Euro rack format 3U / 10HP 50,5x128,5mm

## Warrenty

Beginning from the date of purchase a 2-year warranty is guaranteed for this device in case of any manufacturing errors or other functional deficiencies during runtime. The warranty does not apply in case of:

- damage caused by misuse
- mechanical damage arising from careless treatment (dropping, vigorous shaking, mishandling, etc)
- damage caused by liquids penetrating the device
- heat damage caused by overexposure to sunlight or heating
- electric damage caused by improper connecting  
(wrong power supply/ jacks/ MIDI connections/ voltage problems).

If you have any complaints please contact your dealer or send an e-mail to:  
[service@flame.fortschritt-musik.de](mailto:service@flame.fortschritt-musik.de)

## Terms of production

conformity: CE, RoHS, UL

## Disposal

The device is produced with RoHS-conformity (subject to the regulations of the European Union) and is free of hazardous substances (like mercury, plumb, cadmium and hexavalent chrome). But electronical scrap is hazardous waste. Please don't add this to consumer waste. For an environment friendly disposal of waste please contact your distributor or specialist dealer.

## Support

Updated and additional informations, updates, downloads and more see:  
<http://www.flame-instruments.de>

## Acknowledgment

For help and assistance big thanks to: Alex4 Berlin, Shawn Cleary (Analogue haven), Ebotronix, Anne Metzler, Felix Bergleiter and Alex Istschenko.