Basic operation: connect trigger or gate signals to inputs 1-8, connect **MIDI-out** to MIDI device

8-trigger mode
Each input will trigger one of 8 MIDI notes.

7+1 mode
Inputs 1-7 will trigger one of 7 MIDI notes. Input 8 will act as a global accent for all 7 notes.

6+2 mode
Inputs 1-6 will trigger one of 6 MIDI notes. Input 7 will act as an accent for notes 1,2,3 and input 8 will act as an accent for notes 4,5,6.

4+4 mode
Inputs 1-4 will trigger one of 4 MIDI notes. inputs 5-8 will act as individual accents for notes 1-4.

Default settings: Preset 1, MIDI single channel mode, MIDI channel 10, 8-trigger mode,
MIDI notes: 36, 38, 40, 41, 42, 46, 49, 39, Note level: 127, Accent level: 64 (all notes)

MIDI mode: press and hold ⬆ for **3s** to change MIDI mode for the current preset. use ⬆ and ⬇ to select the mode, press and hold ⬆ or ⬇ for **1s** to exit and save.

MIDI single channel mode

MIDI multi channel mode

Reset all: hold ⬆ **and** ⬇ during power-on to **reset to defaults**. All LEDs will flash and default settings will be restored.

Settings: Press ⬆ for 1s to enter settings. Press ⬇ for 1s to leave settings. LEDs flash slowly.
Use ⬆ and ⬇ to select page, press ⬆ for 1s to enter selected page.

Trigger mode page

MIDI channel page

MIDI note page

Note level page

Accent level page

Trigger mode: Use ⬆ and ⬇ to select mode, hold ⬆ or ⬇ to save and exit, LEDs flash fast

8-trigger mode

7+1 mode

6+2 mode

4+4 mode

fill1 mode

fill2 mode

MIDI sync mode

fill1 mode: triggers **5-8** trigger the same notes as triggers **1-4**, but at accent level
fill2 mode: same as **fill1 mode** but triggers **5-8** are ignored while triggers **1-4** are active
MIDI sync: (1) **CLOCK** input (2) **START** trigger (3) **STOP** trigger (4) START/STOP (level)
⬆: clock is **1/16** notes   ⬇: clock is **quarter** notes   (5) – (8) inactive

All trigger related settings: MIDI note, channel, note level and accent level will be changed for the **last active trigger**, so it's best to remove or mute all triggers except for a single one when editing these settings. Note that only LEDs for triggers 1-4 will be active when editing settings!

MIDI channel page: use ⬆ and ⬇ to select channel, hold ⬆ or ⬇ to save and exit page, LEDs flash fast. In **MIDI multi channel mode** the channel for the **last active trigger** will be edited.

5○	5○	5○	5○	5○	5○	5○	5●	5●	5●	5●	5●	5●	5●	5●	5○
6○	6○	6○	6●	6●	6●	6●	6●	6○	6○	6●	6●	6●	6●	6●	6○
7○	7●	7●	7○	7○	7●	7●	7○	7○	7●	7●	7○	7○	7●	7●	7○
8●	8○	8●	8○	8●	8○	8●	8○	8●	8○	8●	8○	8●	8○	8●	8○
CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9	CH10	CH11	CH12	CH13	CH14	CH15	CH16

MIDI note page: use ⬆ and ⬇ to select MIDI note for the **last astive trigger**, hold ⬆ or ⬇ to save and exit, LEDs flash fast. LEDs 5-8 will display the last 4 bits of the note number in binary

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Note / Accent level page: use ⬆ and ⬇ to change the **note** or **accent** level for the **last astive trigger**, hold ⬆ or ⬇ to save and exit, LEDs flash fast. The **accent level** is the **MIDI velocity** of the note with accent, without accent the MIDI velocity is the **note level**.

5○	5○	5○	5○	5○	5○	5○	5○	5●	5●	5●	5●	5●	5●	5●	5●
6○	6○	6○	6○	6●	6●	6●	6●	6○	6○	6○	6○	6●	6●	6●	6●
7○	7○	7●	7●	7○	7○	7●	7●	7○	7○	7●	7●	7○	7○	7●	7●
8○	8●	8○	8●	8○	8●	8○	8●	8○	8●	8○	8●	8○	8●	8○	8●
0	8	16	24	32	40	48	56	64	72	80	88	96	104	112	127

Presets: press and hold ⬇ to access the presets. the current preset will be shown with fast flashing LEDs while the others blink slow. Use ⬆ or ⬇ to select a preset. Press and hold ⬇ to load the selected preset, press and hold ⬆ to save the state to the selected preset. To leave the presets do nothing for 5s.

5◉	5◉	5◉	5◉	5◉	5◉	5◉	5●	5●	5●	5●	5●	5●	5●	5●
6◉	6◉	6◉	6●	6●	6●	6●	6◉	6◉	6◉	6●	6◉	6●	6●	6●
7○	7●	7●	7◉	7○	7●	7●	7◉	7◉	7●	7●	7◉	7◉	7●	7○
8●	8◉	8●	8◉	8●	8●	8◉	8●	8◉	8●	8●	8◉	8●	8◉	8●
Preset: 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Installation:
● **trig31** is a **4hp** Eurorack trigger to MIDI converter
● The modules consumes **20mA** from the 12V and **0mA** from the -12V supply, it does not use the +5V rail.
● Carefully check the **orientation** of the 16-pin power connector, the **red stripe (-12V)** should be at the bottom of the module, see the labeling on the PCB.
● Use the supplied 3.5mm to MIDI adapter cable to connect the module to a MIDI-IN capable device. The adapter follows the Arturia/Novation pinout (TIP: current souce, RING: current sink)
● Further information and contact details at: **http://vpme.de/trig31/**

Firmware update instructions:
● Check **http://vpme.de/trig31/** for firmware updates, download and save the update **WAV** file to your PC. The current firmware version on the module is shown by the flashing LEDs when you power up the unit (binary number: LED8 = 1, LED7 = 2, LED6 = 4, LED 5 = 8)
● Connect the output of your mixer/soundcard to the trigger **1** input. Press and hold ⬇ and power on your system, LEDs 6, 7 and 8 will blink. make sure your speakers are muted before you play the update **WAV** file. Disable all other sounds and notifications as they can disturb the update process.
● Play the **WAV** file at full volume, you need at least **2Vpp** on the trigger 1 input. If needed boost the volume with an outboard mixer or VCA. You can check the correct level with LED 5, it will light up when the unit receives the update data correctly.
● To start the update process, stop and rewind the **WAV** file and press ⬆, LED 6 will blink. Now play the file, LED 6 will light up and LED 7 will blink to show the update in process.
When the update is complete all 4 LEDs will light up. press ⬇ to leave the updater and start the unit in normal mode

5 ○ unit in	5 ● signal	5 ● waiting for	5 ● update	5 ● update
6 ◉ **update mode**	6 ⦿ **level OK**	6 ◉ **update data**	6 ◉ in **progress**	6 ● **successful**
7 ◉	7 ⦿	7 ○	7 ◉	7 ●
8 ◉	8 ⦿	8 ○	8 ○	8 ●