

2hp – Div

- [Manual PDF](#)
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[2hp Div Manual \(PDF\)](#)

Creative Patch Ideas for 2hp Div

The **2hp Div** is an ultra-compact, dual-channel, voltage-controlled clock divider/multiplier. It offers immediate patchable rhythmic manipulation—here are some creative uses for it within a modern Eurorack setup:

1. Rhythmic Sequencing and Clock Splitting

- **Basic Use:** Send the *master clock* from a device (e.g., Pamela's New Workout, ALM Busy Circuits) into the Div's *IN*. Use the separate outputs (with independent divisions/multiplications) to drive two sequences with unrelated rhythmic feels.
 - **Example:** OUT 1 set to /4 triggers a bass drum; OUT 2 set to *3 triggers hi-hats.
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2. CV-Controlled Groove Modulations

- **Technique:** Modulate the RATE CV inputs with *LFOs* (Mutable Instruments Tides, Make Noise Maths) or *random* generators (Wobblebug, SSF Ultra-Random Analog).
 - **Result:** This yields morphing polyrhythms and evolving trigger patterns—great for generative or IDM-type sequences.
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3. Combining with Logic Modules

- **Patch Suggestion:** Send the OUTs to a *logic module* (e.g., Mutable Instruments Kinks, Intellijel Plog) along with other rhythmic triggers.
 - **Purpose:** Use AND/OR/XOR outputs to derive complex gate patterns for fills, ratchets, or Euclidean rhythmic effects.
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4. Envelope and Modulator Sync

- **Workflow:** Use one Div output to trigger an *ADSR* (Intellijel Dual ADSR, Xaoc Zadar) and the other to sync a *LFO* reset (Befaco Rampage, Doepfer A-146).
 - **Result:** Keeps multiple modulation sources in time, but at related rhythmic divisions/multiplications.
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5. Polyrhythmic Drum Patterns

- **Application:** Drive multiple drum voices (Hexinverter Mutant Drums, Tiptop Audio 808 modules) using out-of-phase clock divisions/multiplications.
 - **Fun Variation:** Change divisions on-the-fly for dynamic fills or breakdowns.
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6. Melodic Sequencer Clocking

- **Step Sequencers:** Use OUT 1 to clock a melodic sequencer (Make Noise René, Intellijel Metropolis) while OUT 2 clocks a modulation sequencer (Malekko Voltage Block).
 - **Result:** Melodic changes and modulation cycles drift in and out of sync for evolving compositions.
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7. Geometric Rhythmic Textures (Euclidean/Polymeter Feels)

- **Patch Tip:** Use *odd* divisions (e.g., /7 or *3) for off-kilter, non-square rhythms, especially when layered with traditional /4 or /8 clocks.
 - **Complement:** Pair with a quantizer module (Intellijel Scales, Doepfer A-156) to lock resulting patterns to specific notes or scales.
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8. Performance Use: Manual Rhythm Transitions

- **Live Patching:** Use the RATE knobs for instant rhythm morphing during live jams. Add footswitch CV sources or Planar-style joystick modules for hands-free or more expressive control over divisions/multiplications.
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9. Sequence/Modulation Randomization

- **Automated Variations:** Patch stepped random CV (Doepfer A-149-1, Mutable Marbles) into RATE CVs for evolving rhythmic textures or random fills.
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10. Syncing with External Gear

- **Integration:** Use the Div to process external drum machine or DAW clocks, outputting subdivided/multiplied clocks to your rack for deep hybrid setups (e.g., syncing modular with Elektron Analog Rytm).
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Generic Module Types to Pair With:

- **Clock generators/Master clocks**
 - **Gate/Trigger sequencers**
 - **Logic modules**
 - **Random/Chaos CV sources**
 - **LFOs, Envelope generators**
 - **Quantizers & Drum modules**
 - **Crossfaders & Joysticks for live performance**
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Final Thought

The 2hp Div is a rhythmic Swiss army knife—any patch that needs polymeters, evolving patterns, modular clocking, or infectious live rhythm transitions will benefit from its easy integration and modulation possibilities.

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