

# Mystic Circuits — IDUM

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• [Manual PDF](#)

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[IDUM Official Manual \(PDF\)](#)

## Mystic Circuits IDUM — Eurorack Cheat Sheet

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**IDUM** is an intelligent gate/trigger manipulator designed to add probability, ratcheting, clock mangling, and live performance tricks to sequenced rhythms. It's like an "effects processor" for your gates/triggers.

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### Panel Reference

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#### Inputs

Jack	Type	Function	Voltage Range
CL	Clock In	External clock	0–5V (Trig ≥ ~1.8V)
TR1– TR4	Trigger In	4 external triggers/gates	0–5V (Trig ≥ ~1.8V)
CHANCE	CV Input	Probability CV	0–5V
MODE	CV Input	Mode Selection CV	0–5V
PARAM	CV Input	Parameter CV	0–5V

Jack	Type	Function	Voltage Range
LENGTH	CV Input	Modification length CV	0–5V
LOOP	Gate Input	Toggles loop mode (see Setup)	0–5V

## Outputs

Jack	Type	Function	Voltage Range
CL	Clock Out	Modified clock out	0–5V
TR1– TR4	Trigger Out	4 processed gate/trigger outs	0–5V

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## Modes Summary (Selected by MODE Knob)

1. **Hold** — Probabilistically lengthen (CW) or skip/mute (CCW) incoming triggers.
2. **Burst** — Ratchets: Get fast bursts of triggers when a gate is received. PARAM = div/mult of clock.
3. **Multiply/Divide** — Ratchets based on distance between IN triggers. PARAM = div/mult of last trigger interval.
4. **Bouncing Ball** — Triggers speed up (CCW) or slow down (CW), simulating a bouncing ball (unquantized).
5. **Rotate** — Scrambles connections between triggers in/out. PARAM = Swap (CCW) or Rotate (CW).
6. **Gate Delay** — Delays outputs based on recent intervals. PARAM = Delay % (side to side applies delay per channel).
7. **Break** — Selects preset breakbeat-style rhythms (16 patterns via PARAM).
8. **Skip** — Manipulates clock only (not triggers): Step skipping (CCW), Clock ratchet (CW).

*All modes: CHANCE slider sets probability of effect activating (0–100%), LENGTH sets modification length (1–8 clocks), PARAM function is mode-dependent. GATE/Trigger out is active 0–5V.*

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## Control Summary

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Control	Type	Action/Behavior
MODE	Large Rotary	Select active modification mode
PARAM	Small Rotary	Mode-specific parameter (see table above)
LENGTH	Slider	Duration (steps) of modification (1–8, can be CV controlled)
CHANCE	Slider	Probability mod applies (0–100%, can be CV controlled)
REMOVE MODE	Button (top left)	Tap: Remove (bypass) current mode · Long: Enter Setup menu
LOOP	Button (center)	Tap: Toggle looper on/off (or use Loop CV input)
CYCLE	Switch (2-position)	Up: “Tracks” original clock position (for sequencer sync), Down: Output can drift out of sync

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## Output LEDs

- **Blue** = Incoming trigger detected
- **Red** = Modified trigger outputting
- **Pink** = Output is pass-through (not modified)

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## Looper Mode

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- **LOOP Button/Input:** Capture and repeat last 8 steps of triggers + mods. Button toggles loop, input can toggle/momentary (set up in menu).
  - While loop is active, panel controls adjust playback parameters:
  - **MODE:** Choose first step ("scrub" steps when length=1)
  - **PARAM:** Loop speed
  - **LENGTH:** Loop length (1–8)
  - **CHANCE:** Probability that the stored mod is applied on each step
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## Setup Menu (Long Press REMOVE MODE)

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*Setup options can restrict step/parameter values, clock bursts, and loop gate behavior.* - **Parameter/Length Resolution:** ODD/EVEN/POW2 steps only - **Slow Clock:** Slower clock burst for digital sequencers (LED off = slow) - **16 Step:** (future) Expand to 16 steps - **Split:** (future) Per-channel mode independence - **Loop:** Set LOOP input to latching (default) or momentary (LED on)

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## Cheat Sheet: Using IDUM

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1. **Connect** clock/gates and patch outputs to drums, synth, or sequencer.
  2. **Set CHANCE slider up** for more effects, down for subtlety.
  3. **Set LENGTH slider** for how many steps effect stays on.
  4. **Turn PARAM knob** to mode-specific setting.
  5. **Select mode** with MODE knob; tap REMOVE MODE to bypass undesired modes.
  6. **Engage LOOP** with center button or gate for live remixing.
  7. **Use CYCLE switch** up if synchronizing a sequencer to clock out.
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**For firmware updates, use micro-USB on rear; see the manual or Mystic Circuits GitHub for details.**

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