

# 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 $\geq$ ~1.8V)
TR1–TR4	Trigger In	4 external triggers/gates	0–5V (Trig $\geq$ ~1.8V)
CHANCE	CV Input	Probability CV	0–5V
MODE	CV Input	Mode Selection CV	0–5V
PARAM	CV Input	Parameter CV	0–5V

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

## Outputs

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

## 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

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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Generated With Eurorack Processor