

Dreadbox — Dystopia

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Dreadbox Dystopia Eurorack Module Cheat Sheet

Panel Overview

The Dystopia is a versatile 10HP noise and bit-processing module with multiple filter options and external audio processing capability.

Controls & Patch Points

Outputs

- **SCATTER (Top Output Jack)**
 - Default: Noise (White Noise) output, bit crushed.
 - With EXT IN: Negative voltage slicer of EXT IN signal.
- Voltage: $\pm 5V$
- **ODDS (Middle Left Output Jack)**
 - Gate signal based on ODDS knob/CV.
- Voltage: 0–5V
- **PINK (Middle Center Output Jack)**

- Pink noise (filtered output).
 - With EXT IN: 12dB/oct low pass filter on EXT IN.
 - Voltage: $\pm 5V$
 - **BLUE (Middle Right Output Jack)**
 - Blue noise (filtered output).
 - With EXT IN: 12dB/oct high pass filter on EXT IN.
 - Voltage: $\pm 5V$
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Inputs

- **EXT IN (Top Left Input Jack)**
 - Cancels internal noise when patched; processes external audio or CV.
 - **ODDS CV IN (Below ODDS knob)**
 - CV control for ODDS (gate probability).
 - Voltage: $\pm 5V$
 - **BITS CV IN (Below BITS knob)**
 - CV control for BITS (bit crush rate).
 - Voltage: $\pm 5V$
 - **PINK CV IN (Below PINK knob)**
 - CV for pink noise filter rolloff (low pass).
 - Voltage: $\pm 5V$
 - **BLUE CV IN (Below BLUE knob)**
 - CV for blue noise filter rolloff (high pass).
 - Voltage: $\pm 5V$
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Knobs

- **ODDS**

- Sets probability of gate events on ODDS output.

- **BITS**

- Controls bit crusher clock frequency (effect on white noise or EXT IN).

- **PINK**

- Adjust LPF rolloff for pink output (12dB/oct).

- **BLUE**

- Adjust HPF rolloff for blue output (12dB/oct).

Special Functionality

Patching anything into EXT IN disables all internal noise and processes your external audio:

- **SCATTER:** Negative voltage slicer
- **ODDS:** Gate from external audio (distortion based on BITS)
- **CRUSH:** Bit crusher
- **PINK:** Low Pass Filter (12dB/oct)
- **BLUE:** High Pass Filter (12dB/oct)

I/O Reference Table

Jack Label	Type	Function (Default / EXT IN)	Range
SCATTER	Out	Bitcrushed Noise / Sliced EXT IN	±5V
ODDS	Out	Gate based on ODDS / Distorted EXT IN	0–5V
PINK	Out	Pink Noise (LPF) / LPF EXT IN	±5V

Jack Label	Type	Function (Default / EXT IN)	Range
BLUE	Out	Blue Noise (HPF) / HPF EXT IN	±5V
EXT IN	In	Replaces internal noise, injects audio/CV	
ODDS CV	In	ODDS control voltage	±5V
BITS CV	In	BITS control voltage	±5V
PINK CV	In	PINK filter CV	±5V
BLUE CV	In	BLUE filter CV	±5V

Quick Tips

- **No patch in EXT IN:** Classic noise and bit crusher behavior.
 - **Patch to EXT IN:** Turns module into an audio/CV processor (filters, slicing, distortion, bit crushing).
 - **CV accepts full modular levels:** ±5V on all CV inputs.
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