

# Dreadbox – Dystopia

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## Dreadbox Dystopia Eurorack Module Cheat Sheet

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### Panel Overview

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

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### Controls & Patch Points

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#### Outputs

- **SCATTER (Top Output Jack)**
  - Default: Noise (White Noise) output, bit crushed.
  - With EXT IN: Negative voltage slicer of EXT IN signal.
  - Voltage: ±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).
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## 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)
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## 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

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## 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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