

b:art instruments

b:rdcst

Voltage-Controlled Output Panner



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Introduction

b:rdcst is a versatile output panner module designed to convert a mono Eurorack signal to a panned stereo signal. Panning can be controlled manually via a potentiometer or automatically through CV control.

Additionally, the module provides separate left and right inputs for direct stereo routing, shifts audio levels from Eurorack to professional line levels, and offers independent volume controls for both headphone and balanced line outputs.

Safety Information

Ensure your modular system is powered off before installing the module. Only power on the system once every module is connected and properly installed in your system using the provided screws.

The module uses shrouded headers to minimise the risk of failure due to incorrect power cable orientation, however caution must be exercised to avoid plugging the power cable backwards into the power supply, depending on the model.

Do not expose the module to moisture or extreme temperatures.

Do not operate the module in environments with severe amount of dust in the air.

The module's inputs are protected against electrostatic discharge, but be careful when handling the module itself.

Module Overview



1. Pan Knob
2. Pan Input (Mono In)
3. Pan CV Input
4. Stereo Inputs

5. Headphone Volume Knob
6. Headphone Output
7. Line Volume Knob
8. Balanced Line Outputs

Legend

1. Pan Knob

Adjusts the Panorama (Left-Right balance) of the Pan Input. Middle knob position equals centre panning.

2. Pan Input

The Pan Input accepts typical mono Eurorack signals in the 10Vp-p range. The audio goes through a dedicated Panning stage before getting amplified and sent to the outputs.

3. Pan CV Input

The module features automatic panning with its CV input. The CV range is -5V to 5V, with 0V being centre pan.

4. Stereo Inputs

It is possible to omit the panning stage entirely by patching a stereo Eurorack level input into the stereo inputs on the module. This feature might come in handy when using most effect modules, which feature stereo outputs. The panner's outputs are normalised to the stereo inputs, meaning that if both the Pan In and Stereo Ins are patched, the Stereo Inputs take precedence.

5&6. Headphone Out

The module is capable of outputting about 150mW into a 32-ohm load, or about 105dB peak volume for most common headphone efficiencies. To avoid permanent hearing loss, turn the Headphone Volume knob all the way counter clockwise before plugging in your headphones and turning the system on.

7&8. Balanced Line Out

b:rdcst can output audio directly via balanced and unbalanced wires to audio interfaces or active speaker systems. Maximum output volume reaches +13dBu with the potentiometer all the way clockwise, and with 10Vp-p input.

Technical Specifications

Operating voltages: -12V / +12V

Power draw: 71 mA -12V / 71 mA +12V

Width: 6 HP

Depth: 27mm

Audio inputs level: 10Vp-p (-5V/+5V)

Pan CV input level: -5V — 5V

Line output level: -inf. — +10 dBu

Headphones output level: -inf. — +10 dBu



This product was tested and found compliant with the following standards:
EN 55032:2015/A11:2020, EN 55035:2017, EN IEC 63000:2018.
For details, please visit: www.bartinstruments.com/conformity

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