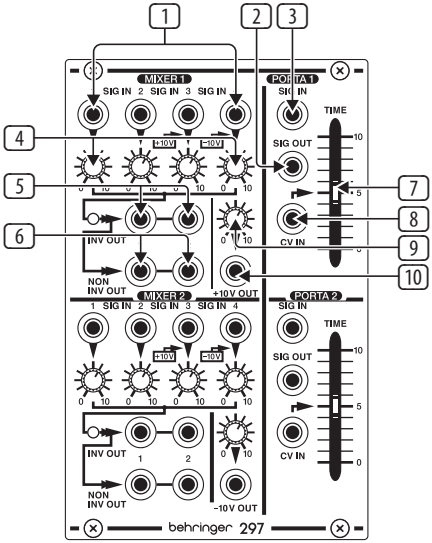
Quick Start Guide

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SYSTEM 100
297 DUAL PORTAMENTO/ CV UTILITIES

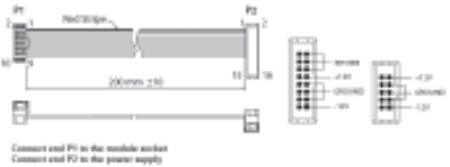
Legendary Analog Portamento Controller and CV Utilities for Eurorack

Controls



1. **MIXER SIG IN** – Connect incoming signals via 3.5 mm TS cables. Inputs 3 and 4 feed +10/-10 V respectively to the mixer inputs if no jack is inserted, which can be used to offset the overall mixer output control voltage.
2. **PORTA SIG OUT** – Send the portamento signal to another module via 3.5 mm TS cable.
3. **PORTA SIG IN** – Connect a signal to the portamento section via 3.5 mm TS cable.
4. **SIG LEVEL** – Adjust the level of the signals connected to the mixer inputs.
5. **INV OUT** – Send the mix of inputs 1-4 as an inverted signal.
6. **NON INV OUT** – Send the mix of inputs 1-4 as a non-inverted signal.
7. **TIME** – Adjust the portamento time.
8. **CV IN** – Connect a voltage to control the portamento time from another module.
9. **+10/-10 V LEVEL** – Adjust the level of the +10 V and -10 V outputs.
10. **+10/-10 V OUT** – Send the +10 V and -10 V signals via 3.5 mm TS cable.

Power Connection



The module comes with the required power cable for connecting to a standard Eurorack power supply system. Follow these steps to connect power to the module. It is easier to make these connections before the module has been mounted into a rack case.

1. Turn the power supply or rack case power off and disconnect the power cable.
2. Insert the 16-pin connector on the power cable into the socket on the power supply or rack case. The connector has a tab that will align with the gap in the socket, so it cannot be inserted incorrectly. If the power supply does not have a keyed socket, be sure to orient pin 1 (-12 V) with the red stripe on the cable.
3. Insert the 10-pin connector into the socket on the back of the module. The connector has a tab that will align with the socket for correct orientation.
4. After both ends of the power cable have been securely attached, you may mount the module in a case and turn on the power supply.

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Installation

The necessary screws are included with the module for mounting in a Eurorack case. Connect the power cable before mounting.

Depending on the rack case, there may be a series of fixed holes spaced 2 HP apart along the length of the case, or a track that allows individual threaded plates to slide along the length of the case. The free-moving threaded plates allow precise positioning of the module, but each plate should be positioned in the approximate relation to the mounting holes in your module before attaching the screws.

Hold the module against the Eurorack rails so that each of the mounting holes are aligned with a threaded rail or threaded plate. Attach the screws part way to start, which will allow small adjustments to the positioning while you get them all aligned. After the final position has been established, tighten the screws down.

Specifications

Inputs	
Mixer signal input	
Type	8 x 3.5 mm TS jacks, DC coupled
Impedance	>50 kΩ, unbalanced
Max input level	±10 V
Portamento signal input	
Type	2 x 3.5 mm TS jacks, DC coupled
Impedance	95 kΩ, unbalanced
Max input level	+10 V
Portamento CV input	
Type	2 x 3.5 mm TS jacks, DC coupled
Impedance	2 MΩ, unbalanced
CV input level	+10 V
Outputs	
Mixer outputs, inverted & non inverted	
Type	8 x 3.5 mm TS jacks, DC coupled
Impedance	50 Ω, unbalanced
Max output level	±10 V
Portamento signal output	
Type	2 x 3.5 mm TS jacks, DC coupled
Impedance	250 Ω, unbalanced
Max output level	+10 V
+10 V output	
Type	3.5 mm TS jack, DC coupled
Impedance	1 kΩ, unbalanced
Max output level	+10 V
-10 V output	
Type	3.5 mm TS jack, DC coupled
Impedance	1 kΩ, unbalanced
Max output level	-10 V

Controls	
Mixer input level	-∞ to unity gain
Portamento time	10 ms to 3 s
+10 V output voltage control	0 V to +10 V
-10 V output voltage control	0 V to -10 V
Power	
Power supply	Eurorack
Current draw	70 mA (+12 V), 60 mA (-12 V)
Physical	
Dimensions	38 x 81 x 129 mm (1.5 x 3.2 x 5.1")
Rack units	16 HP
Weight	0.18 kg (0.4 lbs)

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