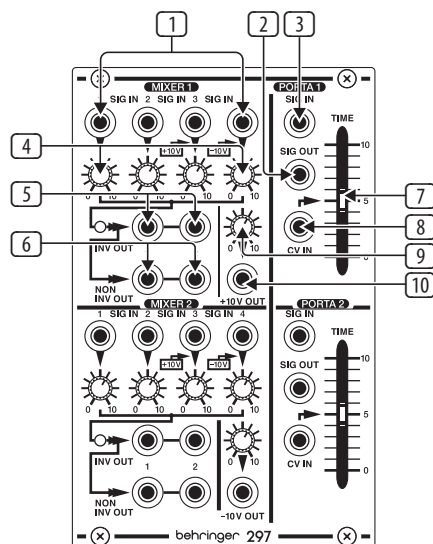# Quick Start Guide

SYSTEM 100
297 DUAL PORTAMENTO/
CV UTILITIES

Legendary Analog Portamento
Controller and CV Utilities for Eurorack
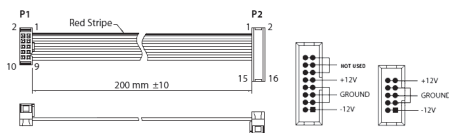
Controls

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.

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.

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)

LEGAL DISCLAIMER

LIMITED WARRANTY

behringer