Mixology

Mixology

input level
send pan

input level
send pan

input level
send pan

input level
send pan

left right
L /mono R
send

send

send

send

send

pan

pan

pan

pan

solo

solo

solo

solo

mute

mute

mute

mute

QU-BIT

Description

Mixology takes the mixing and routing of modular audio signals to a new level of sophistication. It is a stereo, four channel mixer with a performance oriented interface. Each channel has a high quality VCA circuit which allows for amplitude modulation, audio ducking, and voltage controlled panning. In addition, CV over send amount and a stereo return channel make interfacing with effects a breeze. Whether on stage or in the studio, Mixology is the perfect centerpiece for controlling and performing audio signals.

- Stereo four channel mixer
- High quality VCA per channel
- Ergonomic performance layout with level faders
- Pop-free mute and solo functionality
- Voltage controlled panning that supports audio rate modulation
- Constant power panning
- CV over send amount
- Stereo return channel
- +3dB of gain per channel
- Analog VU meter
- Bipolar CV inputs allow for audio ducking, dynamic panning, and effect throws

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Installation

To install, locate 28 HP of space in your Eurorack case and confirm the positive 12 volts and negative 12 volts sides of the power distribution lines. Plug the connector into the power distribution board of your case, keeping in mind that the red band corresponds to negative 12 volts. In most systems, the negative 12 volt supply line is at the bottom.
The power cable should be connected to the Mixology with the red band facing the bottom of the module.
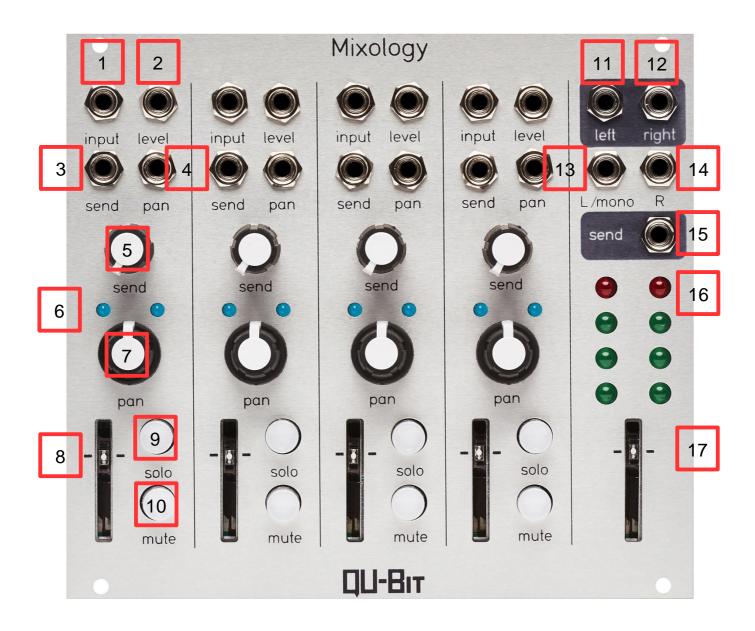
Specifications

Format: 28 HP Eurorack module

Depth: 23mm (Skiff Friendly)

Max Current: +12V = 174mA
-12V = 55mA

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General Functions Overview

1. Input:
Modular level signal input

2. Level CV Input:
Control voltage input for $Level$

Control voltage is added to the fader position

Range: ±8V

3. Send CV Input:
Control voltage input for $Send$

Control voltage is added to the knob position

Range: 0V – 5V

4. Pan CV Input:
Control voltage input for Pan

Control voltage is added to the knob position

Range: ±5V

5. Send:
Post fader effects send that sets the amount of signal routed to the $Send\ Output$

If the knob is far left, no signal for the corresponding channel will be routed to the $Send\ Output$
If the knob is far right, the signal routed to the $Send\ Output$ will be at unity gain for the corresponding channel

6. Pan LEDs:
LED indication of the pan position across the stereo field

7. Pan:
Sets the pan position across the stereo field

If the knob is far left, the left LED will be fully illuminated and signal will only emit from the Left Output
If the knob is far right, the right LED will be fully illuminated and signal will only emit from the Right Output

Constant power panning implementation ensures that the perceived loudness of the output signal is constant, regardless of the pan position across the stereo field

8. Level Fader:
Sets the level of signal that is sent to the Left and Right Outputs

If the fader is all the way down, the incoming signal will be fully attenuated and not present at the Left and Right Outputs

If the fader is set to the unity marking, the incoming signal will be full scale (not attenuated, nor amplified)

If the fader is all the way up, the incoming signal will be amplified by +3 dB

9. Solo:
Button that, when pressed, will mute all non-corresponding channels and only output the corresponding channel from the Left and Right Outputs

If the button is illuminated, solo is active for the corresponding channel
If the button is unilluminated, solo is inactive for the corresponding channel

Only one channel can be soloed at a time

It is important to note that a muted channel can still be soloed

10. Mute:
Button that, when pressed, will stop the corresponding channel from passing to the Left, Right, and Send Outputs

If the button is illuminated, the channel is muted
If the button is unilluminated, the channel is unmuted

Any number of channels can be muted at a time

11. Left Output:
Modular level signal output for the left channel of the final mix

12. Right Output:
Modular level signal output for the right channel of the final mix

13. L/Mono Return Input:
Left/Mono effects return input

If no signal is present at the Right Return Input, the signal present at the L/Mono Return Input will be normalled to the Right Return Input

It is important to note that this input can be used as an additional mono input

14. Right Return Input:
Right effects return input

It is important to note that, along with the L/Mono Return Input, both inputs can be used as an additional stereo input

15. Send Output:
Mono effects send output

Adjusting the Send control will set the amount of signal routed to the Send Output

16. VU Meter:
Amplitude indication of the Left and Right Outputs

17. Master Fader:
Sets the level of the final mix

If the fader is all the way down, the final mix will be fully attenuated and will not pass to the Left and Right Outputs

If the fader is all the way up, the final mix will be full scale (not attenuated, nor amplified)

Controls 1-10 are replicated on channels 2-4

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