

# 2164 VCA



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## Description

The ES 2164 VCA is a linear, dual channel VCA. It uses our 2164 submodule to provide two independent channels of high fidelity, low noise amplification of audio or CV signals. Each channel has a dedicated offset knob that becomes an attenuator when CV is present. In addition, channel one normals down to channel two when no signal is inserted to allow for multiple amplifications of a single source without repatching. As we all know, you can never have too many VCAs!

- Dual linear VCA
- High fidelity 2164 based architecture
- Offset knobs become attenuators when CV is present
- Channel one normals to channel two
- Gain: silence to 2x amplification
- DC coupled inputs

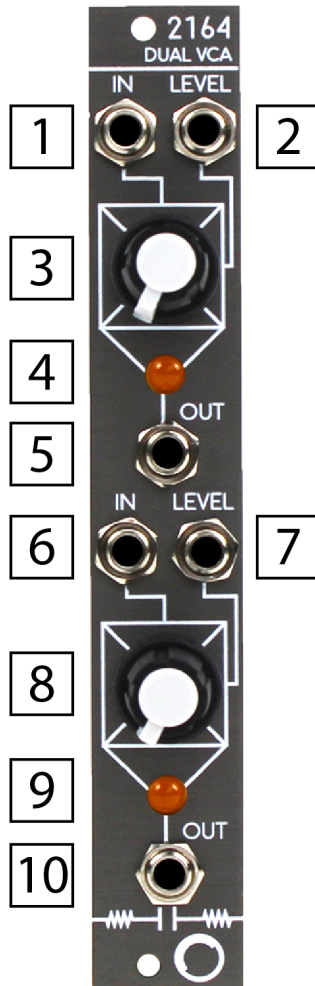
## Installation

To install, locate 4 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 module with the red band facing the front of the module.

## Specifications

- Size: 4 HP
- Depth 26 mm
- Current Consumption:
  - +12V: 28mA
  - -12V: 23mA

# Diagram



# Functional Overview

## 1. In 1

DC Coupled input

Input Audio or CV

This signal is normalled to In 2

## 2. Level 1

Control input for the amplitude of the output.

When this gets patched the Level 1 Knob becomes an attenuator for the control signal.

## 3. Level 1 Knob

Controls the amplitude of the output, or acts as an attenuator for incoming CV at the Level 1 input.

## 4. LED 1

Indicates the Signal present at the output jack.

## 5. Out 1

Output for channel 1.

## 6. In 2

DC Coupled input

Input Audio or CV

When unpatched, any signal present at In 1 will be connected to this jack.

## **7. Level 2**

Control input for the amplitude of the output.

When this gets patched the Level 2 Knob becomes an attenuator for the control signal.

## **8. Level 2 Knob**

Controls the amplitude of the output, or acts as an attenuator for incoming CV at the Level 1 input.

## **9. LED 2**

Indicates the Signal present at the output jack.

## **10. Out 2**

Output for channel 2.