
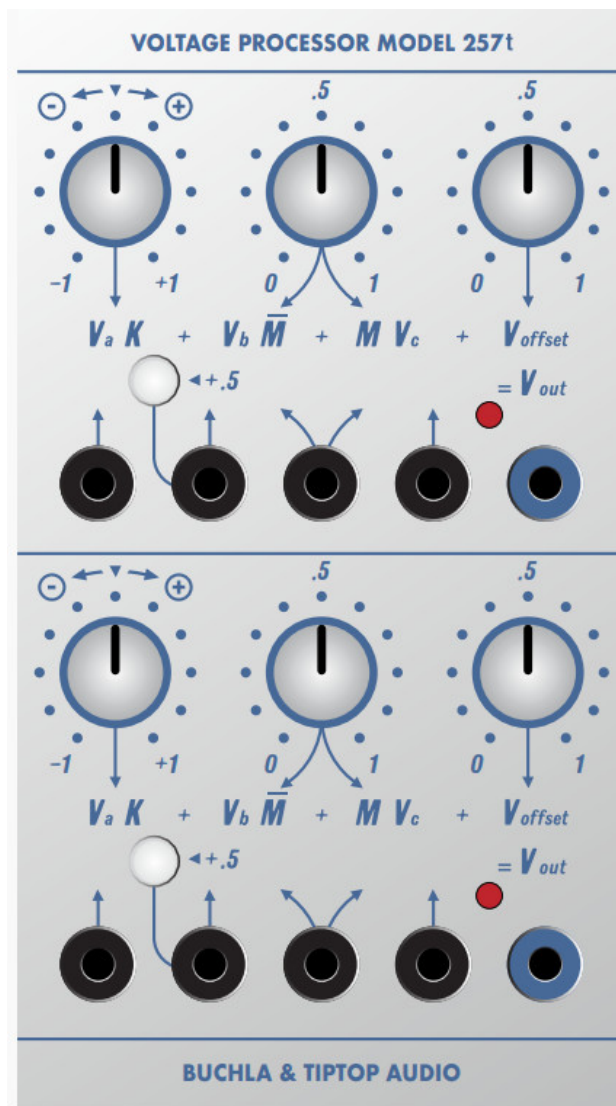




## TIPTOP audio 257t Dual Voltage Processor User Manual

[Home](#) » [TIPTOP audio](#) » TIPTOP audio 257t Dual Voltage Processor User Manual 





## Contents

- 1 257t Dual Voltage Processor
- 2 Functions
- 3 Specifications:
- 4 Documents / Resources
- 5 Related Posts

## 257t Dual Voltage Processor

Model 257 Dual Control Voltage Processor consists of two identical sections, each of which permits several applied control voltages to define a single output voltage according to the equation:

$$(V_a * K) + ((V_b * (1-M)) + (V_c * M)) + V_{offset} = V_{out}$$

The algebraic manipulations possible with this module include addition, subtraction, scaling, inversion, and multiplication. Also incorporated is the capability of using one control voltage (M) to transfer control from one applied voltage (V\_b) to another (V\_c).

## Functions

### – Attenuverter

V<sub>a</sub> is the voltage input a for attenuverter (left jack on the panel)

K knob can scale the incoming V<sub>a</sub> voltage either positively or negatively

### – Crossfader

Vb is the voltage input b for the left side of the crossfader (second jack from the left)

+.5 switch adds 5 volts to the input of Vb

Vc is the voltage input c for the right side of the crossfader (fourth jack from the left)

M scales Vb from 1 to 0 based on the position of M knob

M scales Vc from 0 to 1 based on the position of M knob

The middle CV input at M/M can crossfade between Vb and Vc (third jack from the left)

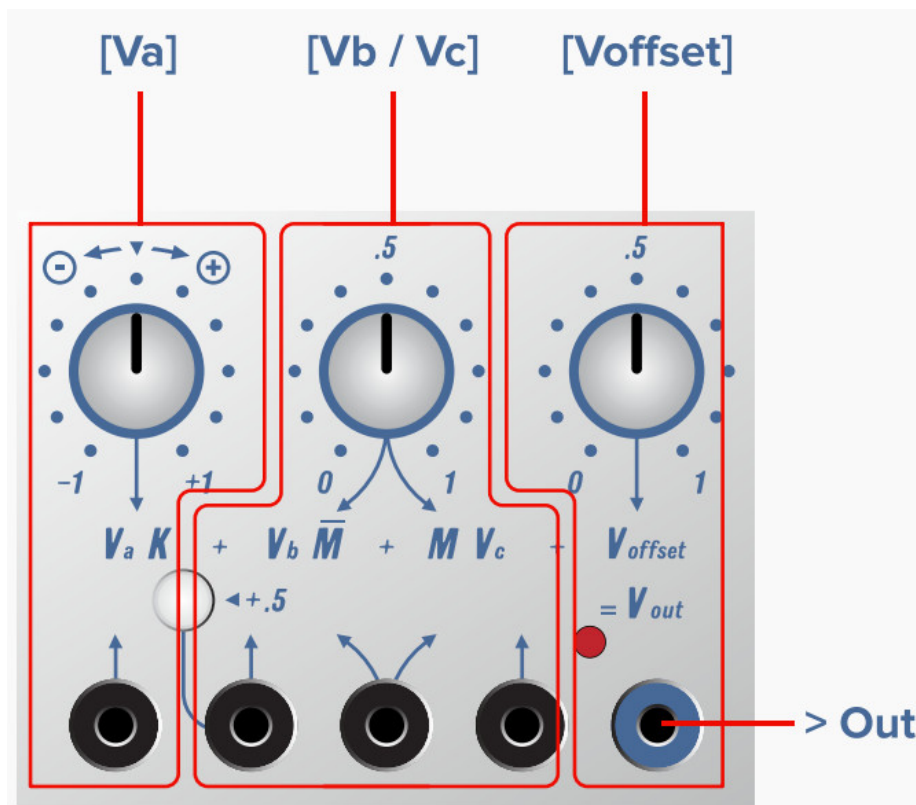
The M knob and M CV added together to control crossfade position

### – Offset

Voffset Adds 0 – 10 volts to any combination of Va + Vb + Vc

### – Output

Vout is the combined voltage of the attenuverter, crossfader and offset (right jack on the panel)



### Specifications:

Size: 14HP – Depth: 25mm

Power: +12V 45mA / -12V 22mA

**Buchla**  
TIPTOPaudio

Eurorack 200 series

### Documents / Resources

