

# S.P.O.

S.P.O. is a polarizing scaler and offset generator. Up to two inputs can be summed into a single scaler/offset generator. The offset generator provides a DC offset for shifting signals into the positive or negative voltage region. The scaler provides a means of attenuating and polarizing (inverting) the applied signal. S.P.O. works with audio and control voltages (CV).

- SP1** **SCALING POLARIZER 1 & 2**  
Use these controls to change the **amplitude and polarity** of the respective input signals.  
Center position (0) turns the respective input signal level off.
- SP2** Maximum position (+) results in the full, normal signal.  
Minimum position (-) results in the full, inverted signal.

- OF1** **OFFSET 1 & 2**  
Use these controls to **add a (+/-5V) DC offset** to the respective input signals. This control will send a bipolar DC offset to the output whether or not a signal is applied to one of the inputs.
- OF2** Center position (0) turns the offset level off.  
Maximum position (+) results in the full, (+5V) positive offset signal.  
Minimum position (-) results in the full, (-5V) inverted offset signal.

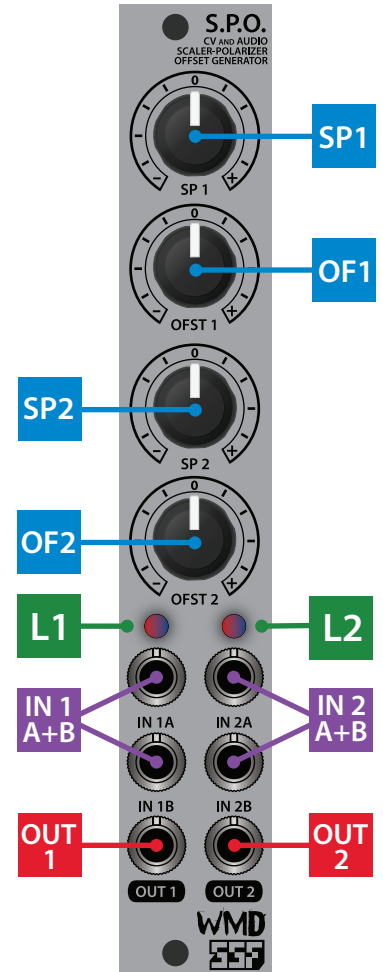
- L1** **BIPOLAR LEVEL LED 1 & 2**  
These LEDs indicate of the polarity of the input signal and/or offset. BLUE is positive and RED is negative.
- L2**

- IN 1 A+B** **SUMMING INPUTS 1 & 2**  
These are the respective inputs to the polarizers and offset generators. There are two inputs each. **Applying two signals will sum them together.** Both audio and control voltages (CV) can be utilized.
- IN 2 A+B**

- OUT 1** **OUTPUTS 1 & 2**  
These are the respective outputs for each polarizer/offset generator.
- OUT 2**

## COLOR KEY LEGEND

<span style="color: blue;">■</span>	PANEL CONTROL
<span style="color: green;">■</span>	LED INDICATOR
<span style="color: purple;">■</span>	INPUT
<span style="color: red;">■</span>	OUTPUT



## SIGNAL PATH DIAGRAM

