

ALM-010

'O/A/x2'

- Operation Manual -



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Introduction

'O/A/x2' is a dual channel attenuverter with each channel also including a bipolar voltage offset and LED monitoring. The module is primarily intended for fine grain flexible 'editing' of control signals (i.e changing the phase, level and DC offset of an LFO signal) but also has uses with audio signals such as attenuation, inversion and mixing.

Feature list;

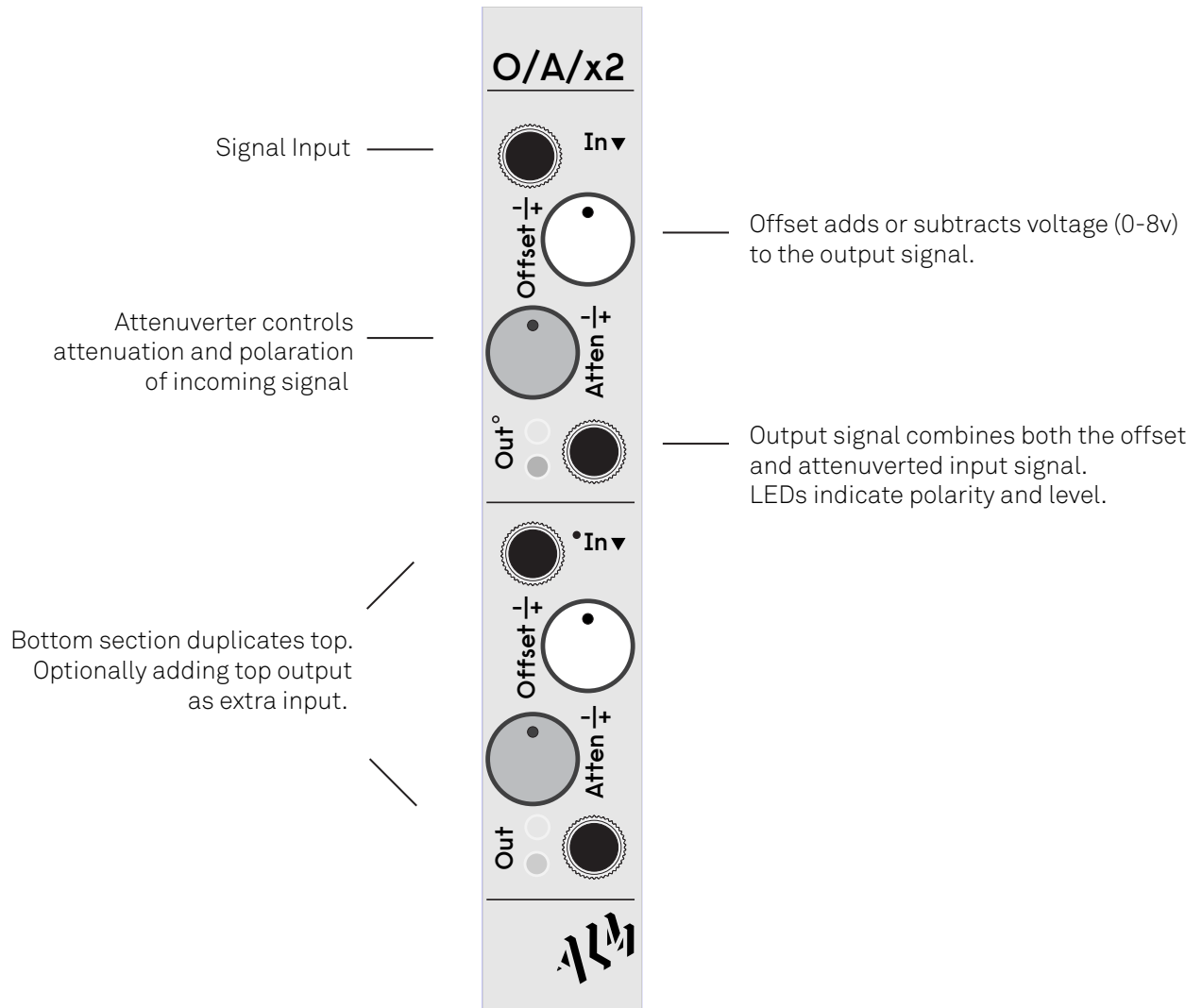
- Dual channel.
- Attenuate and invert input signals.
- Additional +/- 8v DC Offset controls .
- LED indication of outgoing signal polarity and level.
- A jumper setting allows for the module to also be used as a simple mixer.
- Reverse polarity protection.
- Skiff friendly.
- Designed and Made in the UK.

Technical Specifications

- Supply: +/-12V
- Current Draw: ~80ma
- Size: 4 HP
- Depth: 32mm (including power header)

Core Operation

Panel Layout



General Usage

The O/A/x2 is split into two similar sections. For each section A signal patched into an input can be both attenuated (Atten knob full CCW is $X + 1$) or inverted (Atten knob full CCW is $X - 1$) and have a DC offset added to it (Off knob full CV $\sim +8v$) or subtracted (Off knob full CCV $\sim -8v$). Note the actual offset is not affected by the Atten control.

The LEDs indicate both the level (brightness) and polarity (red +ive, green -ive) of the final outgoing signal.

On the rear of the module is a jumper marked 'MIX' - closing this jumper will normalise the top section output to the lower section as an additional input. Thus with no cable patched into the upper output the module can be used as a simple dual channel mixer.

Limited Warranty

From the date of manufacture this device is guaranteed for a period of 2 years against any manufacturing or material defects. Any such defects will be repaired or replaced at the discretion of ALM. This does not apply to;

- Physical damage arising from mistreating (i.e. dropping, submerging etc).
- Damage caused by incorrect power connections.
- Overexposure to heat or direct sunlight.
- Damage caused by inappropriate or mis-use.
- Use of incorrect or non official firmware

No responsibility is implied or accepted for harm to person or apparatus caused through operation of this product.

By using this product you agree to these terms.

Support

For the latest news, additional info, downloads and firmware updates please visit the ALM website at <http://busycircuits.com> and follow @busycircuits on twitter.

Please send any questions or comments to info@busycircuits.com

