

OPERATOR'S MANUAL 83/1.0



# Warna

VOLTAGE DISTRIBUTOR  
SYNTH UTILITY MODULE  
MODEL OF 1983

## PRODUCT FEATURES

- 2 independent 1:4 buffered multiples
- 2 voltage inverters
- summing 4:1 mixer section, normalised to multiples
- unity gain circuit
- backward power protection

## TECHNICAL DETAILS

- eurorack standard synthesizer module, fully Doepfer compatible
- 6 hp wide
- +12/-12V powered
- current draw: 50 mA



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## SALUT

Thank you for purchasing this XAOC Devices product. Warna is a quite self-explanatory yet extremely useful utility module that helps you to work with control voltages in your system. You can use it to distribute voltage sources precisely, to swap their polarity, then to mix your CVs and audio signals together.

## INSTALLATION

Unplug your modular system from the power source first. Clear a 6hp space in your eurorack cabinet, and plug the power connector into the bus board so the red band points right towards the -12V rail (usually the lower one). Although the module is protected against backwards power connections, it is always a good habit to pay attention to this. Tighten the supplied mounting screws and you're ready to go.

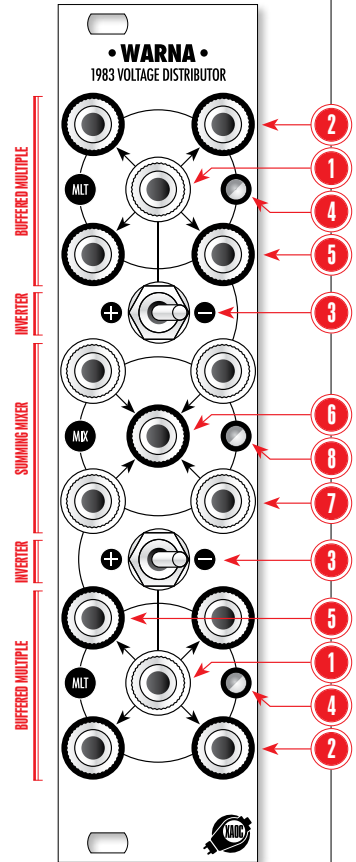
## CONTROLS & OPERATION

Warna sports five normalised sections: two buffered mults, two inverters and a mixer. Each multiple routes the input **1** signal to separated outputs **2** without any voltage loss. Warna is designed for unity gain – if you apply a specific voltage to any input **1**, **5** or **7**, it remains the same on the respective outputs.

Inverters **3** are hardwired to mults and invert the polarity of the signal applied to mults. The two-colour LEDs **4** indicate the status of the signal applied – yellow for negative part of the voltage and red for positive.

Both mults are also normalised to the mixer section via inputs **5**. Patching anything to these inputs breaks the normalization. Mixer LED **6** indicates the status of mixer sum output **6**.

If mixing several high signals causes an overdrive, please consider attenuating them.



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