



WARMA

VOLTAGE
DISTRIBUTOR II

Model of 1983

OPERATOR'S MANUAL, rev. 1983/2.1

SALUT

Thank you for purchasing this Xaoc Devices product. *Warna II* [*varna*] is a carefully tweaked and much improved second iteration of our *Warna* utility module. It comes in handy for multhing and mixing CV as well as audio. It can be used for precise voltage distribution around the Eurorack system, flipping the polarity, mixing control voltage and audio.

INSTALLATION

The module requires 6hp worth of free space in the Eurorack cabinet.

Always turn the power off before plugging the module into the bus board using the supplied ribbon cable! The ribbon-type power cable must be plugged into the bus board, paying close attention to polarity orientation. The red stripe indicates the negative **-12V** rail and should point in the same direction on both the bus board and the unit. The module itself is secured against reversed power connection, however, reversing the 16-pin header **MAY CAUSE SERIOUS DAMAGE** to other components of your system because it will short-circuit the +12V and +5V power rails.

The module should be fastened by mounting the supplied screws before powering up. To better understand the device, we strongly advise the user to read through the entire manual before using the module.

MODULE OVERVIEW

Warna II sports five sections: two buffered **MULTS** ①, two inverters ② and a unity gain **MIXER** ③. Each multiple routes the input ④ signal to four separate outputs ⑤ without any voltage loss. *Warna II* is designed for unity gain, i.e. if one applies a voltage to any input, it remains the same at the respective outputs.

Inverters are hardwired to mults and invert the polarity of the input signal. The two-color LEDs ⑥ indicate the status of the signal present at the outputs—green for negative and red for positive voltage.

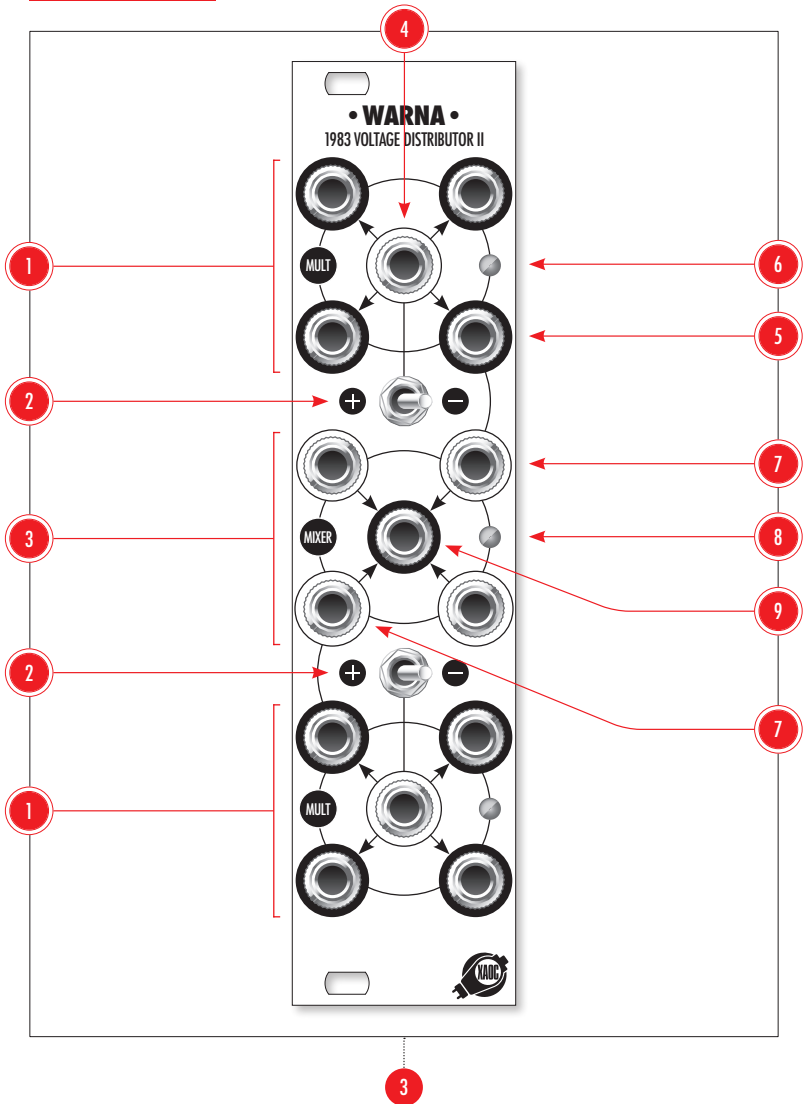
Both multiples are normalled to the middle **MIXER** section. Patching anything into the mixer input ⑦ connected to the multiple output breaks the normalization (indicated by a curved line that connects the **MULT** and **MIXER** sections).

The mixer LED ⑧ indicates the polarity of the mixer sum output ⑨. If mixing several signals of high amplitude causes overdrive, consider attenuating the signals.

ACCESSORY

Our Coal Mine black panels are available for all of Xaoc Devices modules. Sold separately. Ask your favourite retailer. •

FRONT PANEL
OVERVIEW



WARRANTY TERMS

XAOC DEVICES WARRANTS THIS PRODUCT TO BE FREE OF DEFECTS IN MATERIALS OR WORKMANSHIP, AND TO CONFORM WITH THE SPECIFICATIONS AT THE TIME OF SHIPMENT FOR A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE. DURING THAT PERIOD ANY MALFUNCTIONING OR DAMAGED UNITS WILL BE REPAIRED, SERVICED, AND CALIBRATED ON A RETURN-TO-FACTORY BASIS. THIS WARRANTY DOES NOT COVER ANY PROBLEMS RESULTING FROM DAMAGES DURING SHIPPING, INCORRECT INSTALLATION OR POWER SUPPLY, IMPROPER WORKING ENVIRONMENT, ABUSIVE TREATMENT OR ANY OTHER OBVIOUS USER-INFLICTED FAULT.

LEGACY SUPPORT

IF SOMETHING WENT WRONG WITH A XAOC PRODUCT AFTER THE WARRANTY PERIOD IS OVER, NO NEED TO WORRY, AS WE'RE STILL HAPPY TO HELP! THIS APPLIES TO ANY DEVICE, WHEREVER AND WHENEVER ORIGINALLY ACQUIRED. HOWEVER, IN SPECIFIC CASES, WE RESERVE THE RIGHT TO CHARGE FOR LABOR, PARTS AND TRANSIT EXPENSES WHERE APPLICABLE.

RETURN POLICY

THE DEVICE INTENDED FOR REPAIR OR REPLACEMENT UNDER WARRANTY NEEDS TO BE SHIPPED IN THE ORIGINAL PACKAGING ONLY, SO PLEASE KEEP IT JUST IN CASE. ALSO, A FILLED RMA FORM MUST BE INCLUDED. XAOC DEVICES CAN NOT TAKE ANY RESPONSIBILITY FOR DAMAGES CAUSED DURING TRANSPORT. PRIOR TO SENDING US ANYTHING, PLEASE CONTACT US AT SUPPORT@XAOCDEVICES.COM. NOTE THAT ANY UNSOLICITED PARCEL WILL BE REJECTED AND RETURNED!

GENERAL INQUIRIES

FOR USER FEEDBACK SUGGESTIONS, DISTRIBUTION TERMS, AND JOB POSITIONS FEEL FREE TO CONTACT XAOC DEVICES AT INFO@XAOCDEVICES.COM. PLEASE VISIT THE XAOCDEVICES.COM FOR INFORMATION ABOUT THE CURRENT PRODUCT LINE, USER MANUALS, FIRMWARE UPDATES, TUTORIALS, AND MERCHANDISE.

WORKING CLASS ELECTRONICS®

EASTERN BLOC TECHNOLOGIES



MADE IN THE EUROPEAN UNION

MAIN FEATURES

*Two independent
1:4 buffered
multiples*

*Two voltage
inverters*

*Summing 4:1
mixer section
normalised to
multiples*

*Unity gain
circuit*

TECHNICAL DETAILS

*Eurorack synth
compatible*

6hp, skiff friendly

*Current draw:
+50mA / -50mA*

*Reverse power
protection*

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