

COSMIX

AURAL ENHANCING STEREO MIXER

OVERVIEW

COSMIX IS AN 8-CHANNEL STEREO MIXER WITH A BUILT IN ANALOG STEREO DUAL BAND MAXIMIZER. IT HAS FOUR **MONO CHANNELS** [2] AND TWO **STEREO CHANNELS** [3], THE LEFT INPUTS 5 AND 7 ARE NORMALISED TO THE RIGHT INPUTS 6 AND 8 RESPECTIVELY [11]. THE FOUR MONO CHANNELS HAVE **PANNING-** [5] AND **AUX SEND** [6] CONTROLS. ALL CHANNELS ARE ACCOMMODATED WITH A DEDICATED MUTE SWITCH FOR LIVE PERFORMANCE.

THE **AUX OUTPUT** [12] CAN BE ROUTED TO AN EXTERNAL EFFECT AND THE FOUR SMALL SWITCHES BELOW THE **VOLUME FADERS** [4] SET WHETHER THE SIGNAL THAT IS ROUTED TO THE AUX BUS IS PRE OR POST FADER.

THE MASTER BUS CAN OPTIONALLY BE FED INTO THE STEREO DRIVE CIRCUIT. THIS CIRCUIT IS TRUE STEREO, AND IMPROVES ALMOST ANY SOUND SOURCE, WITH FULL BASS AND AMAZING SPATIAL RESOLUTION. IT WORKS LIKE A DUAL BAND MAXIMIZER, WITH SEPARATE FADERS FOR HIGH AND LOW FREQUENCIES.

THE ANALOG OVERDRIVE CIRCUIT CAN BE BYPASSED BUT WE DON'T RECOMMEND IT AS IT SOUNDS GREAT AND REALLY GLUES THE WHOLE MIX TOGETHER NICELY. THE OVERALL VOLUME CAN BE SET WITH THE **MAIN VOLUME KNOB** [9].

THE OUTPUT OF THE MAXIMIZER FEEDS INTO A DIODE CLIPPING CIRCUIT, TO CREATE A WARM SATURATED DISTORTION. BY PLAYING WITH THE LEVELS OF EACH CHANNEL DIFFERENT CLIPPING CHARACTERISTICS CAN BE ACHIEVED. HOWEVER IF YOU PREFER TO KEEP THE OUTPUT SIGNAL CLEAN, THE **BYPASS SWITCH** [8] ALLOWS YOU TO BYPASS THE CIRCUIT.

THE WHITE LINES INDICATE THE NON-DISTORTED ODB POINT FOR EACH CHANNEL, WHEN THE DRIVE CIRCUIT IS ACTIVE AND THE SLIDERS ARE SET TO ZERO. DRIVING A CHANNEL ABOVE THE WHITE LINE PUSHES IT INTO MORE OVERDRIVE AND DISTORTION, ASSUMING 10VPP EURORACK LEVEL.

DIFFERENT TONES CAN BE CREATED BY PLAYING AROUND WITH THE GAIN STAGING.

CONTROLS

1 CLICKLESS MUTE SWITCHES 1-6

DOWN TO MUTE, UP TO UNMUTE

2 VOLUME FADERS MONO CHANNELS 1-4

3 VOLUME FADERS STEREO CHANNELS 5-6 / 7-8

4 PRE-POST FADER SWITCHES [PRE<->POST]

ROUTES THE CHANNELS SIGNAL TO THE AUX BUS TO BE PRE OF POST FADER

5 PAN TRIMMERS 1-4

PLACES THE SIGNAL LEFT OR RIGHT IN THE STEREO FIELD

6 AUX SEND CONTROLS 1-4

SETS THE AMOUNT OF SIGNAL THAT IS BEING ROUTED TO THE AUX BUS

7 ANALOG DRIVE W/ HI AND LOW SATURATION FADERS

SETS THE AMOUNT OF HIGH AND LOW TONE SATURATION.

8 BYPASS SWITCH

BYPASSES THE OVERDRIVE CIRCUIT

9 MAIN VOLUME CONTROL

SETS THE OVERALL VOLUME

10 INPUTS MONO CHANNELS 1-4

11 INPUTS STEREO CHANNELS 5-6 / 7-8

12 AUX SEND

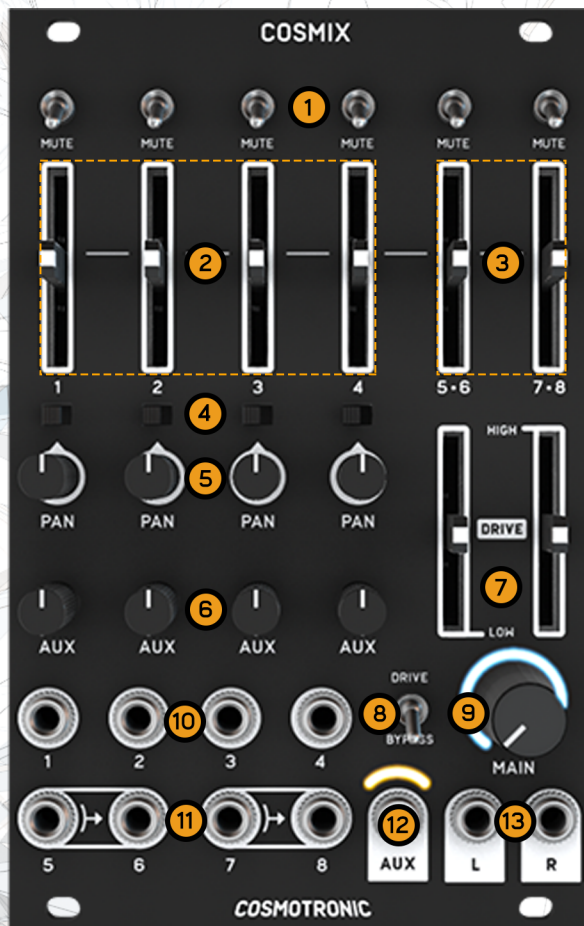
PATCH THIS OUTPUT INTO YOUR EFFECT OF CHOICE

13 MAIN STEREO OUTPUT [L/R]

MAIN OUTPUT IS EURORACK LEVEL (10VPP)

INPUT IMPEDANCE: 100K

OUTPUT IMPEDANCE: 1K



SPECS:

16 HP / 20 MM DEEP

+12V : 70MA

-12V : 70MA

5V : 0MA

REVERSE POLARITY PROTECTED

FULLY ANALOG

POWER AND EXPANSION CABLES

MAKE SURE THE POWER IS OFF WHEN INSTALLING A NEW MODULE IN YOUR SYSTEM, AND PAY CLOSE ATTENTION TO THE ORIENTATION OF THE POWER CABLE. PLEASE NOTE THE LABEL "RED" ON THE BACK OF THE MODULE, MATCH IT WITH THE RED LINE OF THE RIBBON POWER CABLE.

COSMOTRONIC MODULES ARE REVERSE POLARITY PROTECTED, THEREFORE WILL NOT TURN ON WHEN THE CABLE IS REVERSED.

NEVER CONNECT THE POWER CABLE TO THE EXPANSION PORT, WHICH IS CLEARLY LABELED ON THE PCB.

WHEN NOT USING THE EXPANDER, JUMPERS SHOULD BE INSTALLED IN PLACE.

LIMITED WARRANTY

PLEASE CONTACT YOUR DEALER IN CASE OF ISSUES.

COSMOTRONIC GUARANTEES THIS PRODUCT TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE ORIGINAL INVOICE DATE. WARRANTY COVERS REPLACEMENT OR REPAIR BUT DOES NOT COVER ANY DAMAGE OR MALFUNCTION CAUSED BY INCORRECT USE. THIS INCLUDES USING THE WRONG POWER SUPPLY, FAULTY POWER CABLE CONNECTION, ABUSE OF THE PRODUCT OR ANY OTHER CAUSES DEEMED BY COSMOTRONIC TO BE THE FAULT OF THE USER.