



**MATRIX 10 IN - 4 OUT**



## Description

The MAX-104 with matrix functions is a professional 10-channel mixer preamplifier for general sound reinforcement. It also comes with 10 audio inputs and a gauge controller and an output selector switch for 4 outputs (output 1 – 4). Additionally, all 10 input channels have a MIC-LINE selector switch.

The device operates both on 230 V AC mains power and on 24 V DC power (e.g. emergency power supply)

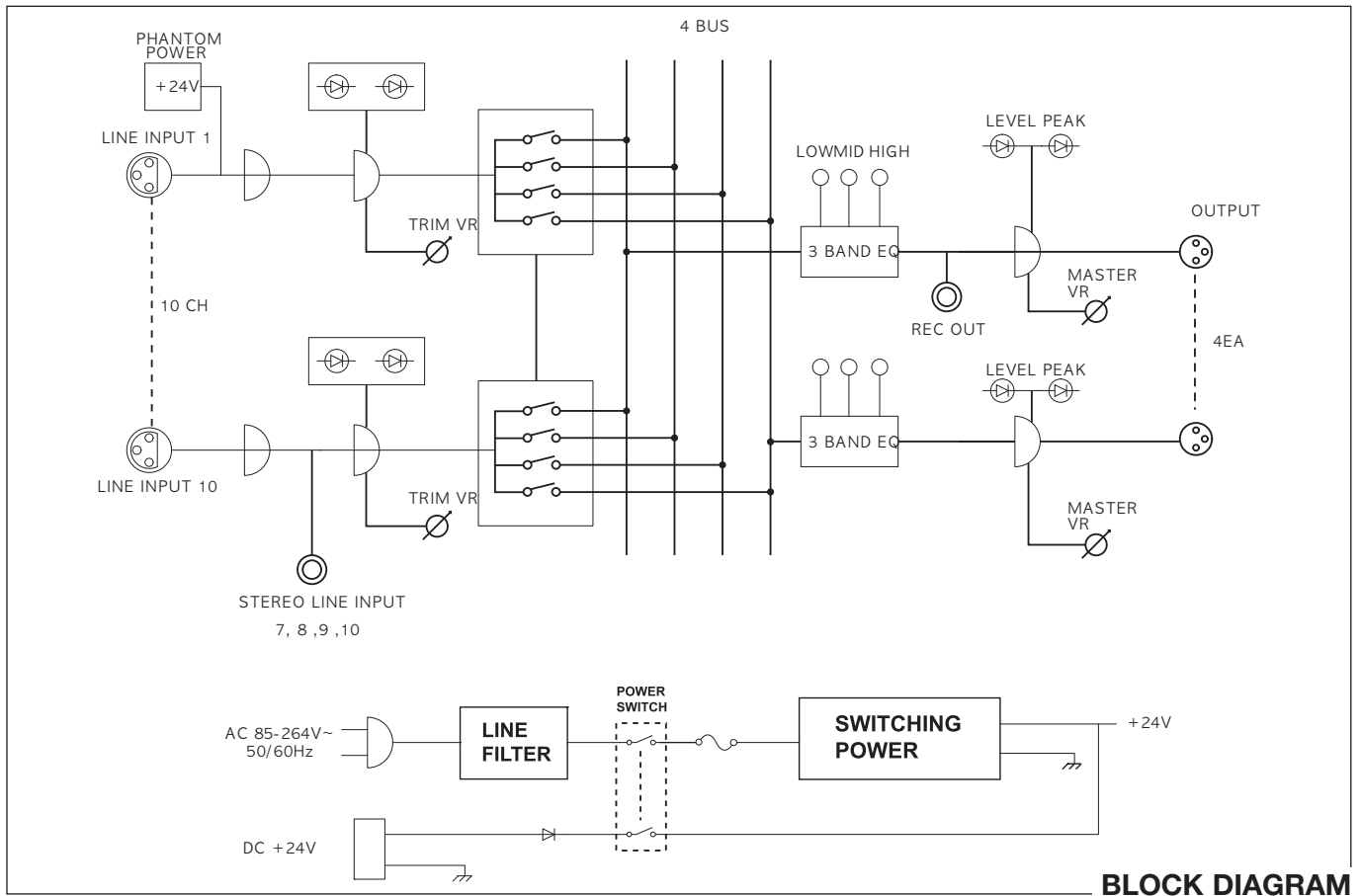
Please consider the following features:

- All input channels have 4 switches on the front panel to route the signals on to 4 outputs.
- Each input channel has a separate signal LED indicator as well as a blasting control.
- All input channels have XLR sockets. Inputs 7 – 10 are additionally equipped with RCA sockets for line signals.
- All MIC inputs have phantom power (+24 V DC). This means that both electret condenser microphones and balanced dynamic microphones can be connected to the XLR MIC inputs.
- Each input has a MIC/LINE switch for impedance adjustment purposes.
- All 4 output-channels can be controlled individually on the front panel of the device and are equipped with 3-band output-equalizer. Additionally 4 outputs (REC-OUT) with RCA sockets are available.
- Each output channel has an individual signal LED indicator and a blasting control.

- The device operates with a low-current switching power supply.
- Apart from the numerous features such as balanced inputs and outputs, the 10-channel mixer preamplifier offers excellent sound characteristics, ease of installation and operation

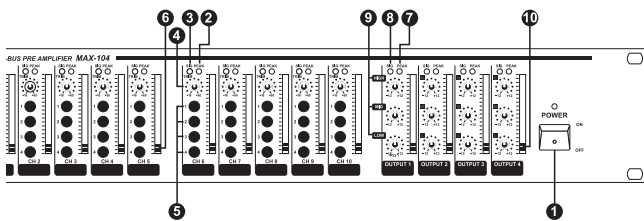
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Technical data	MAX-104
Inputs	MIC: -60 dB / 600 Ohm, balanced
	LINE: -10 dB / 10 kOhm, balanced
Outputs	MASTER: +4 dBu / 600 Ohm, balanced
	REC: -10 dBu / 10 kOhm, unbalanced
Frequency	20 – 20,000 Hz, better than -3 dB
Signal-to-noise ratio	better than 80 dB
Cross Talk	better than 75 dB
THD at 1 kHz	better than 0.1%
Power Supply	AC 230 V, (50 – 60 Hz), DC 24 V
Power Consumption	15 W
Dimensions (W x H x D)	483 x 88 x 280 mm, (2 RU)
Weight	5 kg



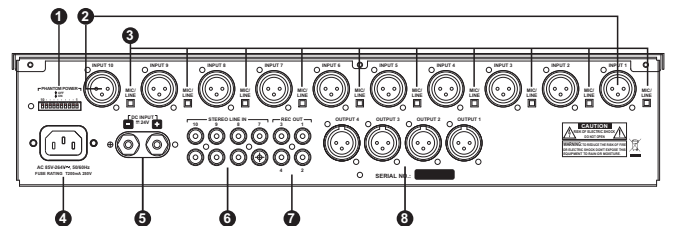
**BLOCK DIAGRAM**

### Front view



- 1 Power switch with power LED
- 2 Input signal clip display
- 3 Input signal indicator
- 4 Trim control
- 5 Master output selector
- 6 Input channel fader
- 7 Output signal clip display
- 8 Output signal indicator
- 9 Output 3-Band Equalizer for treble, mid and bass
- 10 Output channel fader

### Rear view



- 1 Phantom power switch
- 2 XLR Inputs 1-10
- 3 MIC/LINE switch
- 4 IEC power inlet (cold condition)
- 5 Terminal for 24 V DC power supply
- 6 Connection for sound source devices: CD-Player, Tuner, Tape, etc.
- 7 REC outputs to RCA sockets
- 8 XLR outputs for master output 1 - 4