

# XL88

8 into 8 plus 8 Stand Alone Line Level Matrix Mixer



## Midas XL88 Matrix Mixer

The Midas XL88 is a line level, 8x8 stand-alone matrix mixer of modular construction, in a 4U rackmounted format.

Primarily intended as an add-on matrix for mixing consoles, the XL88 has many other applications where a line level multi-output mixer is required. These include feeds for satellite broadcast, control of large, complex speaker systems, connecting multiple mixing consoles to a speaker system, and independent feeds for recording.

The unit comprises eight channel modules, each equipped with eight rotary level controls with on/off switches, 100mm. Penny & Giles output fader, and mute button. Each module also features an independent direct output with level control and mute, and Input, direct output, and matrix mix output connections. There is an additional PFL output, which is selected from eight push-button switches with LED status indicators. The PFL output, in conjunction with each modules' meter changeover switch (each module features a 20 segment LED peak level meter), permits the monitoring of PFL input or PFL matrix output signals.

All inputs and outputs are electronically balanced, feature Midas' legendary CMR performance, and are accessed from 3-pin XLR connectors on the rear panel. Optional transformer balancing is also available.



## Features

- ⊕ Stand alone, high performance matrix mixer providing 8 independent matrix mixes derived from 8 different inputs.
- ⊕ P.F.L. output to allow external monitoring of all inputs and matrix mixes.
- ⊕ Direct output facility allows stacking to provide as many output mixes as required.
- ⊕ 20 segment LED column for peak response metering on all channel outputs.
- ⊕ All inputs and outputs are electronically balanced with transformer balancing as an option.
- ⊕ All switches have LED status indicators.
- ⊕ Penny and Giles professional series audio taper conductive plastic faders.
- ⊕ Full modular construction.
- ⊕ The XL88 is sturdily constructed throughout and complies with standard 19" 4U rack mounting requirements.

## Architects and Engineers

The mixer shall be suitable for the highest quality audio signal processing, mixing and reinforcement applications.

The mixer's facilities shall comprise:

- ⊕ 8 Inputs.
- ⊕ 8 Direct outputs derived from inputs via rotary level controls.
- ⊕ 8 Matrix outputs derived from all inputs via rotary level controls, the matrix mix outputs being controlled via conductive plastic faders.
- ⊕ 1 P.F.L. output being derived from any input or matrix output.

The mixer shall be arranged with 8 modular input/output channels which are rigidly supported in a steel chassis of 19" width and 4U height. In addition, each channel shall be equipped with a 20 segment LED peak level meter which can monitor either Direct Output or Matrix Mix Output.

The mixer shall meet or exceed the following performance specifications:

Distortion <0.01% (1kHz)  
<0.03% (20Hz-20kHz)

Frequency Response ±0.5dB (20Hz-20kHz)

Noise <-94dB (22Hz-22kHz unweighted)  
Maximum Output Level Into 600Ω +21dBm

All audio connections shall be via rear panel mounted XLR connectors. The unit shall be capable of operating from 110/220V +20% 50/60Hz AC power source.

The mixer shall be the Midas XL88 and no other alternative specification option is available.

## Technical Specification

⊕ <b>Inputs</b>	<b>Eight</b>
Type	Balanced (electronically)
Impedance (Ω)	
Balanced	20k
Unbalanced	10k
⊕ <b>Outputs</b>	
Direct	Eight
Matrix	Eight
P.F.L.	One
Type	Balanced (electronically)
Min. load impedance	600Ω
Source impedance	<60Ω
Max. level	+21dBm
⊕ <b>Performance</b>	
Frequency Response (20Hz-20kHz)	±0.5dB
Distortion @ +20dBm	<0.01% @ 1kHz 0.03% 20Hz-20kHz
Equivalent Input Noise	<-94dB 22Hz-22kHz unweighted
⊕ <b>System Noise</b>	
1 Input and 1 Output @ unity gain	<-92dB 22Hz-22kHz unweighted
8 Inputs and 1 Output @unity gain	<-88dB 22Hz-22kHz unweighted
⊕ <b>Crosstalk</b>	
Channel to Channel @1kHz	-100dBu
Group to Group @ 1kHz	-90dBu
⊕ <b>Power Requirements</b>	
Voltage	110/120/220/240V 50/60Hz
Consumption	<45VA
⊕ <b>Weight</b>	
Nett	8kg
Shipping	10.5kg
⊕ <b>Dimensions</b>	
Width	482mm (19 inch)
Depth	205mm (8 inch)
Height	176mm (7 inch)
⊕ <b>Terminations</b>	
Inputs	3 pin XLR
Outputs	3 pin CLR
Power	3 pin IEC
⊕ <b>Options</b>	
Transformer input/output balancing	

Trade Descriptions Act:

Due to the company policy of continuing improvement, we reserve the right to alter these specifications without prior notice. E&OE.