8x4 Digital Matrix Mixer

DMX84

XTE electronic

Description

This device is a comprehensive system which integrates 8 inputs / 4 outputs matrix, 24bit / 48kHz sample rate DSP processor, automatic microphone mixing function and dynamic processor into one unit.

The high quality DSP processor includes a wide range of usefull features such as HP filter, input and output PEQ, 31 band Graphic EQ, up to 680ms delay, automatic limiter, compressor, noise-gate and much more are available to adapt the system at whichever application requirements.

Its system of 20 presets allows for full recall of the whole system or individual parameters only.

The unit is provided with an intuitive software complete of flexible audio management tools, essential for the sound system configuration.

All presets can be saved onto PC and loaded into the unit as and when required.

The system can be easily controlled and programmed, for basic parameter only, without the use of PC thanks the 2x20 backlight display and the front panel controls and indicators.

All of this features make this device the all-round product for audio applications requiring signal processing, such as places of worship, auditoriums, congress centres and many other commercial sound applications.

Features

Mixer Section:
- 8 balanced Mic/Line XLR inputs
- 1 stereo CD/AUX RCA input
- 4 balanced Line XLR outputs
- 1 stereo AUX RCA outputs
- Selectable 48Vdc Phantom Supply
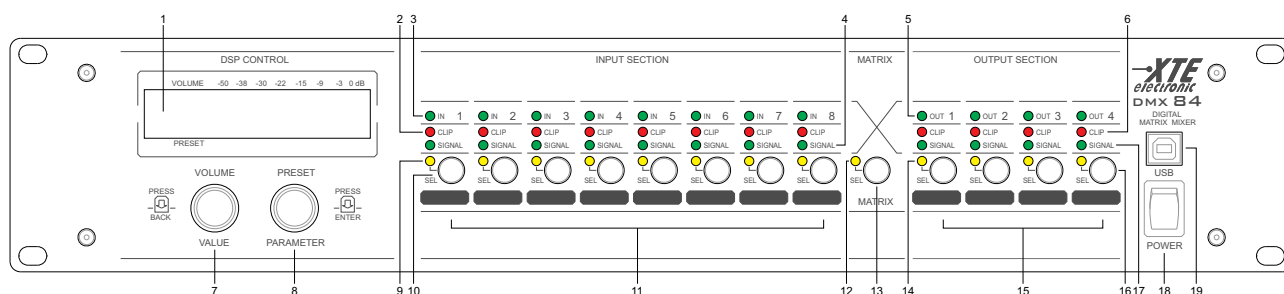- Arranged for 19" rack mounting in 2 unit space

DSP Section:
- 8x4 channels 24bit/48kHz DSP Processor
- Easy handling front panel controls
- Intuitive User GUI for configuration from PC
- Automatic Mixer function
- Routing matrix function
- 20 memory Presets
- RS232 for remote control
- USB for PC programming
- Input, Output and Master Gain controls
- HP filter (160Hz-12dB/oct) for each input
- 3 PEQ for each input
- Dynamic Processor and limiter for each input
- 31 band Graphic EQ for each output
- 4 PEQ for each output
- Delay (680ms/233mt Max) for each output
- Dynamic Processor and limiter for each output
- Phase reverse for each output
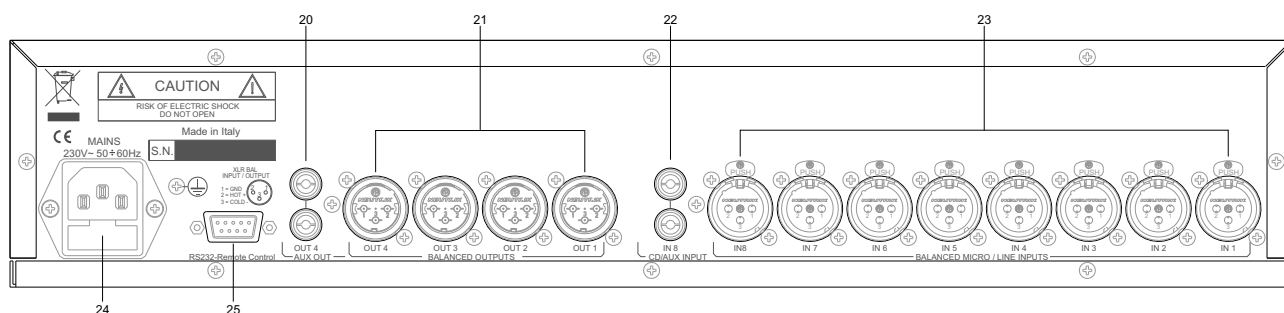
Technical Specifications

MODEL	DMX84
Configuration	8 In / 4 Output Channel Matrix Mixer
Inputs	8 balanced mic/line on XLR with 48Vdc Phantom Power; 1 AUX on RCA
Outputs	4 balanced mic/line on XLR; 1 AUX on RCA
Controls	SEL for channel selection; Volume, Preset, Value, Parameter, Back and Enter for DSP
MIC / LINE / AUX Input Gain range	70dB
MIC / LINE / AUX Input Max level	+ 20dBu
LINE / AUX Output Nominal level	+ 4dBu (Master volume @ -16dB)
LINE / AUX Output Max level	+ 20dBu
LINE / AUX Output impedance	50 Ohm
Frequency response	20-20.000 Hz
T.H.D.	< 0,01%
E.I.N. MIC (20Hz÷20kHz weighted)	126 dBV
DSP ADC / DAC Resolution	24 bit
Sampling Rate	48 kHz
Dynamic Range ADC / DAC	≥110dB
Connectivity	RS232: D-Sub 9 pin; USB: USB-B
Power Requirements	AC 230V-50÷60Hz
Consumption	60VA
Dimensions (WxHxD)	482x88x255mm
Weight - Net	5,5kg

Front Panel: Controls and Indicators

1. SEL – Input channel selection led indicator
2. SIGNAL – Input signal presence led indicator
3. CLIP – Input signal clip led indicator
4. IN – Input channel activation led indicator
5. SEL – Output channel selection led indicator
6. OUT – Output channel activation led indicator
7. CLIP – Output signal clip led indicator
8. SIGNAL – Output signal presence led indicator
9. LCD – 20x2 Back light LCD display for DSP parameters view
10. SEL – Input channel push button selector
11. INPUTS CONTROL PANEL – Input channels selection and status indicators dedicated section
12. SEL – Matrix function selection led indicator
13. SEL – Matrix function push button selector
14. OUTPUTS CONTROL PANEL – Output channels selection and status indicators dedicated section
15. SEL – Output channel push button selector
16. VOLUME / VALUE / BACK – Volume, Value and Back navigation control for DSP processor
17. PRESET / PARAMETER / ENTER – Preset, Parameter and Enter navigation control for DSP processor
18. USB – USB A socket for Personal Computer connection
19. POWER – Power on switch

Back Panel: Controls and Connectors

20. AUX OUT – AUX outputs on RCA sockets
21. OUT – Balanced LINE outputs on XLR sockets
22. CD / AUX INPUT – CD / AUX Inputs on RCA sockets
23. MIC / LINE – Balanced MIC / LINE inputs with variable sensitivity on XLR sockets
24. MAINS – AC 230V power supply socket, with incorporated protection fuse
25. REMOTE CONTROL – D-Sub 9 socket for remote control by external devices via RS232

XTE Electronic reserve the right to make changes to the drawings and specifications at any time and without notice.