

DMP81

8-Channel Digital Automatic Mixer

Features

- ▶ Seamless automatic mixing through dynamic channel gating and attenuation
- ▶ Adaptable, quick-acting technology automatically makes active microphones a priority
- ▶ 8 balanced mic/line input channels (Euroblock connector)
- ▶ Selectable +48V phantom power on each input channel
- ▶ 8 unbalanced 1/4" TRS insert jacks
- ▶ Balanced mono master output through 3-pin Euroblock connector
- ▶ Master output 3-mode peak limiter (+16 dbm/+ 8 dbm/+4 dbm)
- ▶ Last input source lock-on
- ▶ Individual gain control knob per channel
- ▶ On-board HPF (high pass filter) and LPF (low pass filter)
- ▶ 1/4" headphone output with level control
- ▶ 1/4" AUX input with level control
- ▶ Fully functional compressors per input channel



Overview

Designed uniquely for sound reinforcement scenarios, the Phonic DMP81 Digital Automatic Mixer combines intuitive operation with state-of-art signal processing technology. Phonic DMP81 features 8 mic/line inputs via balanced Euroblock connectors, all of which offer selectable +48V phantom power for condenser microphones. The 8 1/4" TRS insert jacks can directly route incoming signal to external sound processing devices, or simply be used as additional input or output connectors. All channels are equipped with front-panel low- and high-pass filter control.

The DMP81 auto mixer's adaptive threshold distinguishes fluctuating audio signals from background noise and continuously adjusts the audio signal to be louder than background noise. Furthermore, when several channels "receive" one particular signal source, DMP81 can be set to control the number of channels that activate when triggered by one signal source through which the best input quality is guaranteed for every input channel. The last input source lock-on feature keeps the most recently used channel activate to get a natural uninterrupted signal flow.

Phonic DMP81 also provides a 1/4" headphone output jack, an AUX input jack (both are with level control knob), and LED indicators, offering intuitive control that caters a wide-range of system setups.

Specification

DMP81	
Input Connections	8 x Balanced Euroblock
Output Connections	1 x Euroblock, 8 x 1/4" TRS (insert/direct output)
Front Panel Indicators	8 x Input/Peak, 1 x Master Output/Peak, 1 x Power, 1 x Limiter
Hum and Noise	<-120dB
Frequency Response	50Hz to 20KHz +/-2dB;-3dB corner at 25Hz
Input Impedance	MIC: 3.2K , LINE: 14K , AUX: 7.5K
Input Clipping Level	MIC: -11.8dBV , LINE:+23dBV , AUX:+23dBV
Output Impedance	LINE Output :60Ω , Phone Output :110Ω
Output Clipping Level	LINE Output :+21dBV , Phone Output :+21dBV
Total Harmonic Distortion	<0.1% at +18dB output level, 50Hz to 20 KHz
Processor	40-bit floating point
Input A/D Conversion	24-bit
Output D/A Conversion	24-bit
Output Limiter	Type: Peak Threshold Switchable: off, +4, +8, +16 (dBm at output) Attack Time: 2 ms Recovery Time: 300 ms Indicator: Lights red when limiting occurs
Sample Rates	48 kHz
DIP Switches	Auto/manual, Last-mic, hold time, off-att, limiter threshold, 48V phantom power
Equalization	Low-frequency: 6 dB/octave cut, adjustable corner from 28 to 315 Hz; High-frequency: +/-6 dB at 5 kHz, +/-8 dB at 10 kHz, shelving
Auto-mixing	Input level, output level, NOM attenuation max.
Phantom Power	+48V DC
Power & Physical	
Power Supply	120VAC/240VAC switching power supply, 15A Edison cable
Dimensions	480 x 295 x 45 mm / 18.89" x 37.4" x 1.77"

