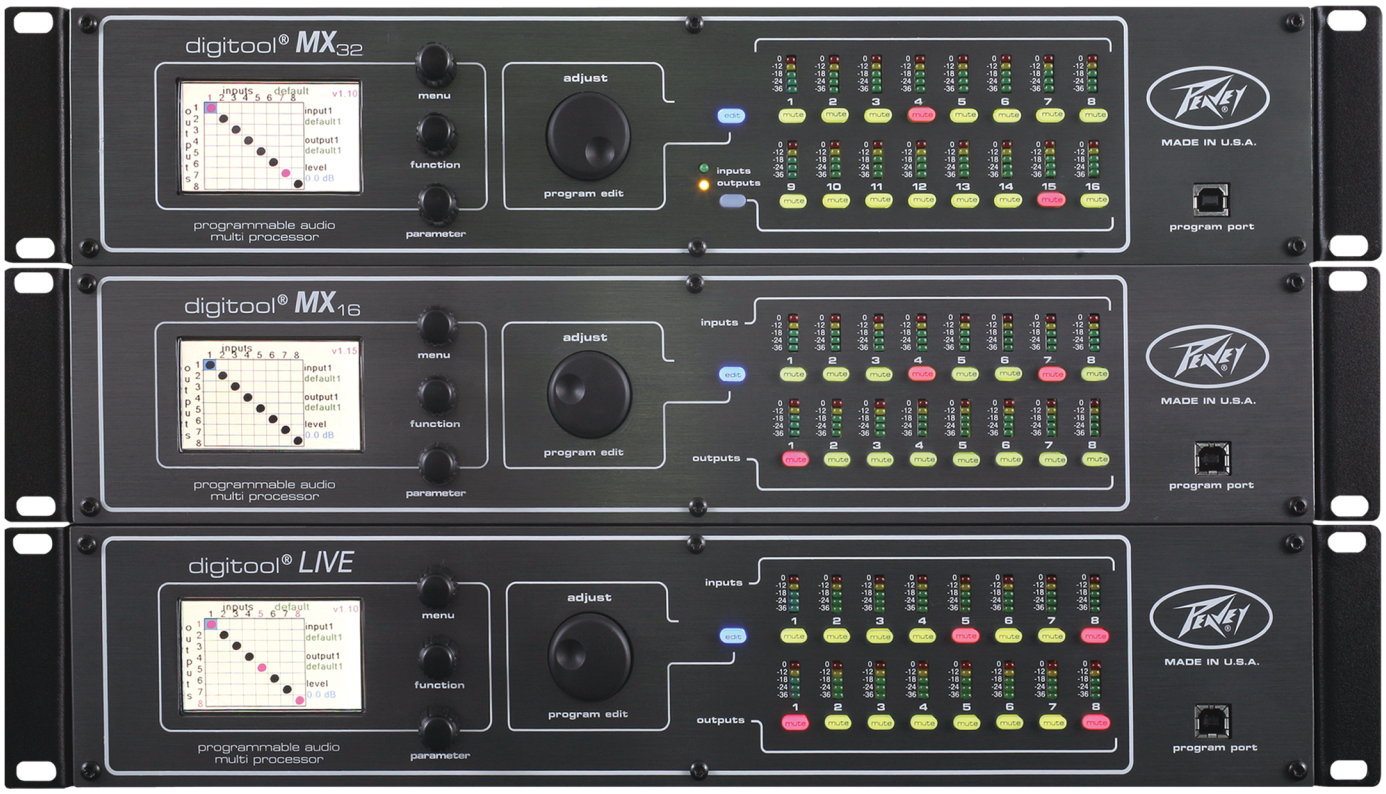
Digitool™ Series

Digital Audio Processing

Commercial Audio



Description

The Digitool® MX16, MX32, and LIVE are a family of digital audio processing units built on the rich history of the original Digitool MX and designed for the audio professional. Each Digitool has the power and flexibility to perform loudspeaker management functions in addition to matrix mixing, room combining, and other audio processing functions for installed and portable sound systems. Each model features a full-color front panel display screen with navigation and editing controls, front panel input and output mute buttons, and LED meters to simplify configuration. Digitools can also be configured using a Windows application via USB.

Features

Digitool MX16

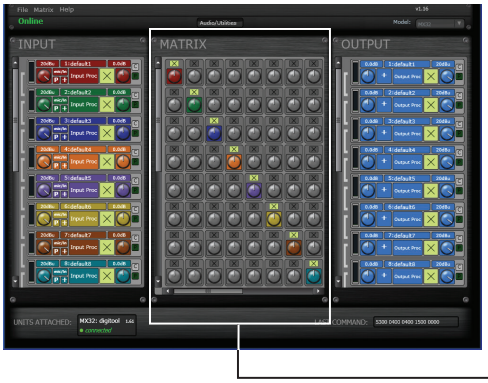
- 8 inputs/8 outputs, Euro connectors
- Enhanced navigation
- Front panel mute switches
- Front panel input/output metering
- Front panel USB port
- Rear panel Ethernet port
- 8 control voltage ports
- 1 AES input, assignable to any outputs

Digitool LIVE

- Designed for live sound applications
- 8 inputs/8 outputs, balanced XLR
- Enhanced navigation
- Front panel mute switches
- Front panel input/output metering
- Front panel USB port
- Rear panel Ethernet port
- 1 AES input, assignable to any outputs

Digitool MX32

- 16 inputs / 16 outputs, Euro connectors
- Enhanced navigation
- Front panel mute switches
- Front panel input / output metering
- Front panel USB port
- Rear panel Ethernet port
- 8 control voltage ports
- 2 AES inputs, assignable to any outputs



Digitool® HD GUI

Loundspeaker Management, Matrix Mixing and Room Combining.
Digitools can also be configured using a Windows® application via USB.

MATRIX

Used to set up connections between input and output channels in order to route audio. The colored knob controls and mute (x) controls show where a connection has been established.

When you move the mouse over the matrix, a colored line will show which input and output channels would be linked if a connection were made.

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Commercial Audio

Digitool® Series Amplifiers

Specifications

DIGITOOL® MX16/32/LIVE SPECS

AUDIO INPUTS:

Circuitry:	Balanced
Max Input Level:	+24dBu (determined by sensitivity setting)
Max Sensitivity for Full Scale:	-40dBu
Source Select:	Mic/Line, AES-R (even channels), AES-L (odd channels)
Sensitivity Settings:	-39 dBu to +24 dBu in ½ dB steps
Input Impedance:	24 dBu to -6 dBu sensitivity setting = 10K Balanced (LINE)
	-7 dBu to -40 dBu sensitivity setting = 2.2K Balanced (MIC)
Phantom Power:	+48V, enabled per channel
Crosstalk:	Better than 70 dB (@ 1k Hz)
Common Mode Rejection:	Better than 70 dB (@1k Hz)
Equivalent Input Noise: (EIN)	-124 dBu 150 Ohm source. 22 Hz to 22 kHz un-weighted
ADC Dynamic Range:	109 dB un-weighted
	112 dB A-weighted

AUDIO OUTPUTS:

Circuitry:	Enhanced servo balanced.
Maximum Output Level:	+24 dBu (determined by output level setting)
Max Output Level Settings:	24 dBu to +24 dBu
Output Impedance:	100 ohms, balanced, 50 ohms unbalanced
DAC Dynamic Range:	110 dB un-weighted
	113 dB A-weighted

I/O CONNECTORS:

MX16 & 32:	Euro plug 3.81mm (0.150") Pluggable terminal block
LIVE:	XLR, Pin 2 Hot

ANALOG INPUT TO OUTPUT:

Total Harmonic Distortion:	< .01% Input to Output, one channel assigned, 22-22k Hz BW
Frequency Response:	10Hz to 20kHz +/- 0.5% dB
Latency:	1.7 msec (analog input to analog output)

METERING:

Sixteen 5-Segment Arrays:	8 input and 8 output MX16/LIVE
	16 input or 16 output (switchable) MX32
Meter levels (dBFS):	-36 dB, -24 dB, -18 dB (GREEN); -12 dB (YELLOW); 0 dB (RED)
	Input levels are taken at the ADC outputs, before the mutes.
	Output levels are taken at the DAC inputs, not at the connectors.
	(The maximum output level adjustment is after the DAC.)

DIGITAL:

Internal Sample Rate:	48kHz
AES Input:	Sample rate converted. Accepts 24 kHz to 192 kHz sample rates
Delay:	Up to 2.5 Seconds on every input and output with 20.8 uS resolution.
	Distance calculation on delay screens based on speed of sound=1130 ft/Sec

CONTROL:

Serial (RS-485):	Half-Duplex 57.6 kBaud, 1 port with 2 multiple drop RJ-45 connectors.
	+15V, 250mA power is provided on the connector. (+15V pin 4, Gnd pin 5) If more power is required, it must be externally sourced.
ETHERNET:	10BaseT/100BaseT, address is DHCP or Static
USB:	2.0 Full speed, "B" connector
CV Inputs:	0 to 10V with an external voltage applied, or remote passive potentiometer

GENERAL:

Dimensions:	19" W x 13.125" D x 3.5" H (48.26cm x 33.34cm x 8.89cm)
Shipping:	22.5" x 21" x 6.625" carton, 15 lbs
Net Weight:	11 lbs. (5 kg)
AC Power Input Voltage:	100 VAC to 240 VAC, 47Hz to 63Hz universal power supply
Power Consumption:	20Watts (MX16/LIVE), 35Watts (MX32)

Architect's & Engineer's Specifications

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