



# MLX3642

36-Input 6-Bus Premium Live Mixer with 24-bit PROFEX digital effects and USB interface



## Overview

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MLX3642 is a large format mixer combining a large number of channels with a full set of features designed to fit any professional sound reinforcement application.

The 28 MONO input channels feature ultra-low noise, high-headroom preamps, able to capture the full range of any instrument. The 4-band EQ with two sweep mids has a great response for tweaking your sound in the most musical way, while the EQ ON/OFF switch allows instant comparison. Each model includes two STEREO channels with 4-band EQ.

The 6 AUX sends can be set pre- or post-fader in pairs. AUX sends 1 to 4, with 60mm faders and 3-band EQ, provide effective control of the stage monitoring. AUX sends 5&6 can be routed to the two internal effects, to external outboard or used as two additional monitor sends. Two STEREO RETURNS with full routing allow to connect external outboard or two additional stereo instruments.

All the channels together with the four GROUPS and the MAIN MIX feature 100mm long-wearing high-quality faders for the most accurate level control.

The MLX mixers include two 24-bit PROFEX digital effects able to provide 256 studio-grade gig-ready effect algorithms: this allows to enhance your mix with natural high-resolution reverb or delay effects without the need of external outboard. The effects can be selected thru a convenient LCD display and they can be freely routed to the monitor sends, the groups and the main mix.

The MLX series features a built-in USB interface to get CD quality audio to and from your computer: thru the USB interface you can play audio files from the PC or record your live performance directly on hard-disk. The MLX USB interface offers the possibility to route the INPUT signal directly to the MAIN MIX or to STEREO channel 2 and to get the OUTPUT signal from the MAIN MIX or from GROUPS 1&2. The MLX MASTER section offers plenty of services and useful features, such as a MAIN MUTE switch, a TALKBACK section and separate PHONES and MONITOR level controls. Three USB sockets are available for connecting 5V USB LAMPS.

The intuitive control surface layout and the color-coded ergonomic knobs of MLX mixers allow to locate easily each function and makes them extremely easy to use. Both models are hosted in a rugged and road-proof metal chassis.

28 state-of-the-art low-noise Mic Preamps  
 Mono channels with 4-band EQs with 2 sweep mid, Lo-Cut, Insert and Direct Out  
 4 stereo Line inputs with 4-band EQs  
 6 Aux sends per channel pre/post fader switchable  
 Peak and Signal LEDs plus Mute, Solo, Subgroup and Main routing switches on all channels  
 Aux 1 to 4 with 3-band EQ, 60mm faders and Insert for advanced stage monitoring  
 4 Subgroup outputs with Inserts  
 2 independent Main outputs with Inserts on Main Mix  
 2 Stereo Returns with comprehensive routing options  
 2 Headphones and 1 Monitor outputs with independent level control  
 Solo-In-Place with PFL/AFL function plus full-featured Talkback section  
 Main Mute function  
 2 independent 24-bit PROFEX digital effects with 256 studio-grade presets including reverbs, delays, chorus and combination effects  
 USB audio IN/OUT interface with comprehensive routing options  
 Long-wearing 100 mm logarithmic-taper faders  
 High-resolution 2 x 16-LED bar meters  
 Balanced Main Mix, Main B and AUX 1-4 outputs with XLR connectors  
 USB connectors for the use of 5V lamps  
 Internal universal power supply (100 – 240 V~)  
 High-quality components and rugged construction for the maximum durability  
 Designed and Engineered by PROEL Italy



## Technical Specifications

Section		Data	Connectors
<b>MONO INPUT CHANNEL</b>			
Mic Input	sensitivity	from 0 to -50 dB	Balanced XLR-F
	impedance	2 Kohm	
	max input level	+22 dBu	
Line Input	sensitivity	from +15 to -35 dB	Balanced JACK
	impedance	10 Kohm	
	max input level	+22 dBu	
Insert	send & return level/max	-10 dBu / +22 dBu	TRS JACK
Direct Out	max output level	+22 dBu	Balanced JACK
Lo cut		75Hz, 18dB/oct.	
EQ	HIGH (shelving)	±15 dB @ 12KHz	
	HI-MID (peaking)	±15 dB from 500Hz to 12KHz	
	LO-MID (peaking)	±15 dB from 80Hz to 2KHz	
	LOW (shelving)	±15 dB @ 80Hz	
<b>STEREO INPUT CHANNEL</b>			
Line Input	sensitivity	from +15 to -35 dB	Balanced JACK
	impedance	10 Kohm	
	max input level	+22 dBu	
EQ	HIGH (shelving)	±15 dB @ 12KHz	

	HI-MID (peaking)	±15 dB @ 3KHz	
	LO-MID (peaking)	±15 dB @ 500Hz	
	LOW (shelving)	±15 dB @ 80Hz	
MASTER SECTION			
MAIN MIX	max. out level	+28 dBu	Balanced XLR-M
MAIN MIX insert	send & return level/max	-10 dBu / +22 dBu	TRS JACK
AUX output	max out level	+28 dBu	Balanced XLR-M, Balanced JACK
AUX 1-4 EQ	HIGH (shelving)	±15 dB @ 12KHz	
	MID (peaking)	±15 dB from 100Hz to 8KHz	
	LOW (shelving)	±15 dB @ 80Hz	
GROUP output	max out level	+28 dBu	Balanced JACK
MONITOR output	nom. out level	+28 dBu	Unbalanced JACK
2TRK	max out level	+15 dBu	Unbalanced RCA
	max in level	+22 dBu	Unbalanced RCA
HEADPHONES	max. out level	+22 dBu / 600 ohm	Stereo JACK
USB		Stereo IN/OUT, 16-bit converter, 48 KHz sample rate	Type B
PROFEX DIGITAL EFFECT PROCESSOR			
Effects		256 (16 presets x 16 variations): HALL, ROOM, VOCAL and PLATE reverbs; STEREO and MONO TAP DELAY; REV + DELAY, REV + TAP DELAY, REV + CHORUS	
A/D and D/A converters - DSP resolution		24 bit	
Controls		2-DIGIT LCD, DIAL, TAP DELAY switch	
GENERAL SPECIFICATIONS			
Impedance	all line outputs	120 ohm unbalanced	
Crosstalk (meas. at 1 KHz)	channel to channel	> -80dBu	
	mix to mix	> -80dBu	
	channel to mix	> -80dBu	
Noise	all channels routed, faders down	< -90 dBu	
	all channels routed at 0 dB	< -86 dBu	
THD	mic to insert	< 0,009 % (+30 dB unity gain, +20 dBu output)	
	mix to mix	< 0,03 % (+30 dB unity gain, +20 dBu output)	
Dimensions (WxHxD)		1125 x 170 x 515 mm	
Weight		21.1 kg	
POWER REQUIREMENTS			
Power Supply		100-240VAC, 50/60Hz	
Consumption		100 W	

## Related Products

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MLX2842

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