

# MQ16USB

## 16-CHANNEL COMPACT MIXER WITH FX AND USB



MQ is a series of mixers created by PROEL to offer in a very compact and stylish package a high input density, a full set of features and a superior audio quality, at a very convenient price point. The MQ series includes 5 models with 6, 10, 12 and 16 inputs, able to satisfy most of the sound reinforcement applications. Carefully designed and engineered in Italy by PROEL R&D, MQ mixers are hosted in ultra-rugged cases, providing extended durability for a stage-proof use.

The smallest models of the series, MQ6 and MQ6FX, offer in an ultra-compact format the performance of professional consoles, delivering a clean and accurate sound. The MQ6FX, despite its small size, includes a high-quality 24-bit DSP able to provide musicians and performers with studio-grade effects.

MQ10FX, together with 3-band EQ and one-knob intelligent COMPRESSORS, offers also 100 DSP presets with a convenient LED display for the selection.

MQ12USB additional features include an USB audio I/O interface and extended mixing capability with MONITOR send, STEREO GROUP bus and 45mm control faders.

The top-of-the-line MQ16USB feature 16 inputs and 12 microphone channels together with sweep mids and one-knob intelligent COMPRESSORS on mono channels, 4 AUX sends, STEREO GROUP bus and 60mm control faders.

Optional padded carrying bags and metal brackets for 19" rack mounting are available for selected models.

- Compact 16-input 4-bus mixer with effect and USB I/F
- 8 MONO MIC/LINE inputs and 4 STEREO MIC/LINE inputs
- 12 low-noise, very high-headroom microphone preamplifiers
- PHANTOM power
- 'One-knob' COMPRESSOR with LED indicator on MONO channels
- 3-band EQ with sweep mids and LO-CUT filter
- 3 AUX sends pre-fader e 1 AUX send post-fader
- 24bit studio-grade digital effect with 100 presets, 2-digit display and footswitch MUTE
- Built-in USB interface with routing options for PC recording and playback
- GROUPS 1&2 with MIX routing and output
- 2-TRACK, HEADPHONES and CONTROL ROOM outputs
- Electronically balanced MAIN MIX outputs with XLR-M and ¼" JACK connectors
- Two 12-LED VU-METERS
- Universal switching power supply 100-250V
- Stage-proof construction and ultra-rugged metal chassis
- Designed and engineered in Italy by PROEL

MONO INPUT CHANNEL			
Mic Input	sensitivity	from -10 to -50 dB	Balanced XLR-F
	impedance	2 Kohm	
Line Input	sensitivity	from +20 to -20 dB	Balanced JACK
	impedance	10 Kohm	
Lo cut		75Hz, 18dB/oct.	
EQ	HIGH (shelving)	±15 dB @ 12 KHz	
	MID (peaking)	±15 dB from 100 Hz to 8 KHz	
	LOW (shelving)	±15 dB @ 80 Hz	
Compressor	Fet	CH 1-8, 1-knob	
STEREO INPUT CHANNEL			
Mic Input	sensitivity	from -10 to -50 dB	Balanced XLR-F
	impedance	2 Kohm	
Line Input	sensitivity	from +20 to -20 dB	Balanced JACK
	impedance	10 Kohm	
EQ	HIGH (shelving)	±15 dB @ 12 KHz	
	MID (peaking)	±15 dB @ 2.5 KHz	
	LOW (shelving)	±15 dB @ 80 Hz	
MASTER SECTION			
MAIN MIX	nom. out level	+4 dBu	Balanced JACK and XLR-M
C. ROOM output	nom. out level	0 dBu	Unbalanced JACK
GROUP output	nom. out level	+4 dBu	Balanced JACK
FX/AUX output	nom. out level	0 dBu	Unbalanced JACK
2TRK	nom. out level	0 dBu	Unbalanced RCA
	nom. in level	0 dBu	Unbalanced RCA
HEADPHONES	min. impedance	32 ohm	
	max. out level	(2x) 193 mW	Stereo JACK
USB		Stereo IN/OUT, 16-bit converter, 48 KHz sample rate	Type B
DIGITAL EFFECT PROCESSOR			
Effects		100 presets	
A/D and D/A converters		24 bit	
DSP resolution		24 bit	
Controls		2-DIGIT display, DIAL, PEAK LED, MUTE switch, MUTE footswitch	
GENERAL SPECIFICATIONS			
Maximum level	all outputs	+22 dBu	
Crosstalk	meas. at 1 KHz	> 82 dBu	
HUM & Noise	unweighted	< -93 dBu	
THD + Noise	at +4dB, 1kHz	< 0,008 %	
Dimensions (WxHxD)		481 x 432 x 104 mm	
Weight		6,50 kg	
POWER REQUIREMENTS			
Mains Supply Voltage		110-240 VAC (±10%) 50 / 60 Hz available with	
		Europe mains cord (Shucko plug)	
		US mains cord (NEMA 5-15P plug)	
		UK mains cord (BS1363 plug)	
Consumption		35 W	