

MIXING CONSOLES

MBR

series

PRELIMINARY



The MBR series include two models: the 12 channels MBR12FX (8 mono + 2 stereo inputs) and the 16 channels MBR16FX (12 mono + 2 stereo inputs). The main features of both models are the really compact size, that allows for mounting in a standard 19" rack, using the optional adapters, the complete endowment of signal sends and returns and the practical configuration of the controls, that result in a simple and immediate utilization. They are fitted with a dual Montarbo stereo effects processor, based on a powerful, latest generation, 56 bit DSP, that provide 2 x 205 high quality programs, with an uncompromised sound quality (thanks to the dual 24 bit conversion) mated with unusual ease of use.

The great flexibility of these mixing consoles allows them to be used both in live applications (thanks to the internal effect and to the two monitor sends, both with a 3-band equalizer) and in recording or broadcasting studios (thanks to the channel's direct outputs, the four effect sends, the control-room out and the stereo return).

In both applications, a really useful feature will be the possibility of plugging-in an analog recorder or of using the practical USB interface to connect a personal computer, used as a digital recorder/player, and of monitoring the master output or the PFL via the headphone output with adjustable volume.

Both models are also available in the powered versions MBR12FXP and MBR16FXP, that incorporate a dual channel Class-D power amplifier rated at 750 + 750 W EIAJ. The switch-mode power supply results in a minimal weight, and the very high efficiency minimizes the emission of heat, thus increasing the system's reliability and prolonging it's working life.

MBR12FX

MBR12FXP

MBR16FX

MBR16FXP

NEW!!!
for 2010

Montarbo
Made in Italy





P R E L I M I N A R Y

The mono channels are fitted with both balanced microphone (XLR, with phantom power) and line (jack) inputs, with adjustable gain, insert IN/OUT jack, channel direct output, low-pass filter, 3-band equalizer with semi-parametric MF control, 4 AUX sends (two of which may be switched pre-post fade), PAN control, MUTE and PFL switches, PEAK level indicator and volume fader

The stereo channels are fitted with one balanced microphone (XLR) and two line (jack) inputs, with adjustable gain, 3-band equalizer, 4 AUX sends (two of which may be switched pre-post fade), BALANCE control, MUTE and PFL switches, PEAK level indicator and volume fader.

The L/R master outputs are fitted with volume faders and 12-segment level indicator. The AUX outputs are fitted with a 3-band equalizer, the EFFECT send may be used as monitor sends. The effect returns may be routed independently to the master and monitor outputs.

FEATURES	MBR12FX / MBR16FX
Inputs (total)	MBR12FX: 12, MBR16FX: 16
Mono-Inputs (Mic/Line) with Inserts	MBR12FX: 8, MBR16FX: 12
Stereo-Line/Mono-Mic-Input Channels	2
Stereo>Returns (Line)	1
Stereo-Tape-Return (Line)	1
USB interface	1
Busses	6
Aux Pre/Post-Fader (Monitor)	2
Aux Post-Fader (Effects/Monitor)	2
Master L/R	2
Mono-PFL	1
Control Room	1
Outputs	
Aux Pre/Post-Fader (Monitor)	2 ¼ inch jack (unbalanced)
Aux Post-Fader (Effects/Monitor)	2 ¼ inch jack (unbalanced)
Master (with Inserts)	2 XLR (balanced)
Tape Send (Recording)	1 Stereo (Phono)
Direct Outputs (¼ inch Jack)	MBR12FX: 8, MBR16FX: 12
Stereo-Headphones	1 ¼ inch stereo jack
Control Room	2 ¼ inch jack (unbalanced)
Size (mm)	W 340 x D 400 x H 95 - MBR12FX W 444 x D 400 x H 95 - MBR16FX
Power Consumption	25 W
Mains Voltage	90-264V, 50-60Hz
Additional Features	19" rack mounting kit (optional)

SPECIFICATIONS	MBR12FX / MBR16FX	
Input Gain	Mic Mono Channel Line Mono Channel Line Stereo Channel Mic Stereo Channel All otherline level inputs	Continuously variable from +3dB to + 50dB Continuously variable from - 7dB to + 40dB Continuously variable from - 11dB to + 20dB Continuously variable from +9 to + 40dB Max +6dB
Maximum Input Level	Mic Line Level Inputs Line Mono Channel Line Stereo Channel	+ 19dBu + 22dBu + 39dBu + 42dBu
CMRR at 100Hz	Mic (gain + 40dB)	Typ. 75dB
CMRR at 1kHz	Mic (gain + 40dB) Line > 45dB	> 85dB
Frequency Response	Mic to Mix (gain + 50dB)	+ 0dB to - 1dB (20 to 20kHz)
Noise (20 to 20kHz)	Mic EIN ref. 150ohm (gain + 60dB)	129dBu
System Noise (20 to 20kHz)	Summing Noise (all channels routed with faders down) Line to Mix Noise (all channels routed at 0dB, pan centre)	- 86dBu - 82dBu
Distortion at 1kHz	Mic to Insert (+ 30dB gain, + 20dBu output) Mic to Mix (+30dB < 0.004% gain, + 20dBu output)	Typ 0.002% < 0.004%
Crosstalk at 1kHz	Channel to Channel Mix to Mix Channel to Mix Fader Attenuation Switch Rejection	< - 80dB < - 80dB < - 80dB > 100dB > 100dB
Output Impedance	All Line Outputs	50ohm
Min. Load Impedance	Headphones	32ohm
Maximum Output Level	L/R Master All other outputs Headphones	+ 25dBu + 22dBu + 22dBu/600ohm
Nominal Signal Level	Mic Line	- 50dBu to 0dBu 0dBu
Equaliser Mono Channel	High Pass Slope High Pass Frequency Treble Gain Treble Frequency Mid Gain Mid Frequency Lo Mid Bandwidth Bass Gain Bass Shelving Frequency	12dB / Oct 75Hz Continuously variable +15dB to -15dB, Centre detent = 0dB, 10kHz Continuously variable + 15dB to -15dB Centre detent = 0dB Continuously variable Centre from 160Hz to 4k5Hz 1 Oct. (Q = 1.4) Continuously variable + 15dB to -15dB Centre detent = 0dB 80Hz
Equaliser Stereo Channel	Treble Gain Treble Frequency Mid Gain Mid Frequency Mid Bandwidth Bass Gain Bass Shelving Frequency	Continuously variable +15 dB to -15dB Centre detent = 0dB 10kHz Continuously variable +15dB to -15dB Centre detent = 0dB 2k5Hz 1.4 Oct. (Q = 1) Continuously variable +15 dB to -15dB Centre detent = 0dB 80Hz
Stereo Effects Processor	2 x 205 stereo effects A/D and D/A converters internal DSP bandwidth	24 bit Delta/Sigma 56 bit 40Hz ÷ 15kHz
Power amplifiers	MBR12FXP / MBR16FXP powered versions	
	2 Class-D amplifiers, with SMPS. Protections	electronic, thermal, short circuit, delayed power-up sequence.
	Output power	2 X 750 W EIAJ @ 4 ohms