

MM-4240

4-INPUTS STEREO MIXER + 6-CH RECORDER

The MM-4240 is a high-end professional audio mixer + recorder for portable use, made by MARENIUS.

It offers four mic/line input channels, built-in SD-card recorder, OLED colour display, ultra-low-noise amplifiers and power supply based on standard C size batteries for up to 8 hours use.

A full set of 6 channels, 4 in + L/R, can be recorded at 96 kHz / 24 bits.

All this is housed in a compact, all-metal heavy-duty case.



The mixer has 4 high quality, digitally controlled, THAT Corporation, microphone pre-amps.

There are 5 stereo output busses:

1 master, 1 monitor, 2 digital and 1 headphone output.

The output busses can be individually assigned to any input pair or the master mix bus.

The unit is able to do mid/side M-S matrix on each input pair.

An extremely wide viewable and clear OLED display is used for metering, menus and information.

The MM-4240 has an internal sampling rate of 96 kHz and a full 24-bit input to output resolution. The recorder can be setup for other sampling rates and resolutions.

The unit has dedicated potentiometers and switches for

the most commonly used functions such as pre-gain, pan, faders, record, test tone, monitoring, etc.

The master faders are combined with ultra-low THD optical limiters.

Each pre-gain amplifier has a clipping LED allowing the user to set optimal pre-gain for each scenario.

Linear time code decoding can be used to synchronize the unit to external equipment.

A virtual time-code slate can be displayed for easy filming with a non-t/c camera.

External time-code can be used to start/stop a recording.

A wired remote control input is also available.

MM-4240 can be powered from six standard LR14 (size C) batteries and, or an external 6-15V power supply. A supercap is used instead of a traditional backup battery for real time clock and LTC, meaning no internal battery needs to be replaced.



- 4 ultra-low-noise mic/line inputs
- SD-card recorder
- 24-bits @ 96/48 kHz format
- Standard batteries
- Heavy-duty metal case
- Compact size and low weight
- OLED colour display
- 1 kHz test tone
- 48V phantom power
- Time code sync input
- Virtual time code slate
- Time code start/stop trigger
- Remote control input
- Dual digital outputs
- Optical limiters with low THD
- Stereo return input
- Advanced signal routing options

All recordings are stored on a removable SD card in BWF format.

Firmware update is possible from files on a SD card.



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MM-4220 offers dual power supply options: external DC and internal standard LR14 (size C) batteries. Battery replacement requires no tools. The DC input socket and plug are locking type NEUTRIK nanoCON.



The front panel is compact while offering direct access to all controls. Pre-gain and pan are integrated in a dual-knob control.



A comprehensive menu system offers full control of signal routing and input configuration, as well as for recording and time-code setup.



Built with extruded, black-anodized aluminium profiles, with laser-engraved text, MM-4240 can be expected to work well in various locations for a long time.

Technical Data MM-4240

Power supply	
External supply voltage	6-15 VDC
Power consumption (Idle)	3.7W
Power consumption (Max)	10W
Power consumption (Typ)	5-8W
Internal battery voltage	5-10VDC
Battery charger	included, 90-240 VAC

Balanced analog inputs	
Connector	XLR-3F, 1/4" TRS
Input impedance (XLR)	2kΩ
Input impedance (TRS)	20kΩ
Maximum input level (XLR)	+12dBu
Maximum input level (TRS)	+32dBu
Frequency response	20Hz-20kHz ±1.5dB
Equivalent input noise	-130dB (20Hz-20kHz)
THD+N (20Hz-20kHz)	0.012%
High-pass filter cut off frequency	200Hz
Maximum gain	78dB

Limiters	
Attack time	2ms
Release time	200ms
THD @ limiting (1kHz)	0.3%
Input threshold	+8dBu

Balanced analog outputs	
Connector	XLR-3M
Output impedance	1kΩ
Maximum output level	+18dBu
Input to output delay	0.45mS
Output reference level	-10dBv, 0dBu, +4dBu
Maximum gain	+6dB

Recorder	
Sampling rates	48kHz, 96 kHz
Resolution	16 bits, 24 bits
A/D dynamic range	107dB
File format	WAV (BWF)
Media types	SDHC, SDXC
File system	FAT32

Digital outputs	
Connector	mini-DIN 4p (2X BNC)
Output level (into 75Ω)	1V p-p
Output sampling rate	96 kHz
Output resolution	24 bit

Dimensions and weight	
Size (H x W x D)	5.6 x 14 x 13.8 cm
Weight, excluding batteries	900 grams
Carrying case, optional	PortaBrace original

Specifications are subject to change without notice. All figures are typical, unless otherwise indicated.

PortaBrace has designed the MM/case for the MM series of mixers from MARENIOUS.



Design, test & production
made in Sweden by

MARENIOUS
ELEKTRONIKUTVECKLING AB
www.marenious.se

MM-4240 ADD-ON

To get the most out of your MM-4240 Audio Mixer we have designed a few useful accessories.

MM-4240/PSU

This is a battery unit that fits perfectly into the outer pocket of the MM/CASE1 Porta Brace case. The DC input socket and plug are locking type NEUTRIK nanoCON. Fill it with either 6 x type C alkaline or NiMH batteries.



The same mains adapter used for the mixer is also used for charging the NiMH batteries.

A LED graph shows the actual capacity remaining or the charge level.

With this add-on the mixer's battery capacity will be doubled.

Replacing batteries in either unit can be done "on the fly" without interrupting a recording.



MM-NP1

Using standard NP-1 batteries is possible with the MM-NP1 adapter. It includes a voltage regulator that handles batteries with voltage output above 12 V DC.



MM-CASE

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