

# SMF-5mkIII

# MARENIUS

## ULTRALOWNOISE MICROPHONE AMPLIFIER

- Two low-noise microphone inputs
- Input transformers by Lundahl
- Gain range 30 - 70 dB
- 48V phantom power
- Balanced XLR outputs
- Headphones socket
- 10 - 35 V power supply
- Compact size



**SMF-5mkIII is a microphone amplifier with ultra-low noise level. It is intended for high-end recording with high resolution.**

Each input has a top-of-the-line audio transformer by Lundahl. With this transformer the low-frequency distortion is negligible while frequency range is extended down to 5 Hz.

Harmonic distortion is down to 0.006% @ 1 kHz and +12 dBu output with 30 dB gain.

The input referred noise level is -131 dBu with a lowZ source.

Gain may be individually set for each channel. Basic gain is selected with a toggle switch for 30 or 50 dB. Additional gain and fine adjustment is controlled by a

potentiometer for a maximum of +20 dB. Total gain is 30 to 70 dB from input to the balanced XLR output. There is also a headphones output that will double as unbalanced output.

Phantom power, 48 V may be selected by a toggle switch on the front panel.

Power supply is by a separate mains adapter.

The power supply may be in the range 10 - 35 VDC with any polarity.

*In contrast to the previous model SMF-5 this version will not run from battery power.*

SMF-5mkIII is housed in an EMC shielded case.

An optional carrying case, made by PortaBrace, is available.



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#### Box includes:

- 1x SMF-5mkIII
- 1x Power supply
- 1x User Instructions (English)

#### Technical Data

#### SMF-5mkIII

Frequency range	5 - 40 kHz (-3 dB) 10 - 20 kHz (+/-0.5 dB)
THD @ 30 dB gain	<0,006% @ 1 kHz, +12 dBu
Max. gain	70 dB (64 dB for unbal. out)
Channel crosstalk	<-88 dB @ 1 kHz
Equiv. input ref. noise	<-131 dBu with lowZ in
Input sockets	XLR-3F
Mic input impedance	1 K ohms
Mic input level	max. -6 dBu
Output sockets	XLR-3M and mini-tele 3.5 mm
Audio output impedance	2 x 22 ohms balanced
Audio output level	max. +24 dBu (XLR) max. +18 dBu (mini-tele)
Phantom power	48 V +/- 1 V, max 5 mA
Power supply	External supply 10 - 35 VDC, any polarity, 2.1 mm socket
Size W x H x D	approx. 140 x 60 x 136 mm, excl. sockets and knobs
Weight approx.	900 grams
Carrying case	PortaBrace original, optional

Specifications are subject to change without notice.

## User Instructions

Attach the PSU to the DC supply socket. Polarity is not critical.

Activate SMF-5 by switching POWER on.

Connect the microphones to the XLR input sockets.

Switch on 48 V phantom power, if desired.

Make a choice of balanced XLR or unbalanced output (through the front panel mini-tele socket).

Select basic gain by the gain switches and add additional gain by the potentiometers.

Connect a headphone to the front panel socket and adjust audio level by the phones gain potentiometer.

#### Note 1:

*Do not short-circuit the XLR output signal pins 2 or 3 to GROUND pin 1. The outputs are transformerless.*

#### Note 2:

*Do not connect unbalanced microphones while 48V phantom power is active. This may destroy the microphone.*

*Dynamic, balanced microphones will not be damaged by 48 V phantom power.*

#### Balanced sockets wiring:

- 1 hot
- 2 cold
- 3 ground/shield



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