

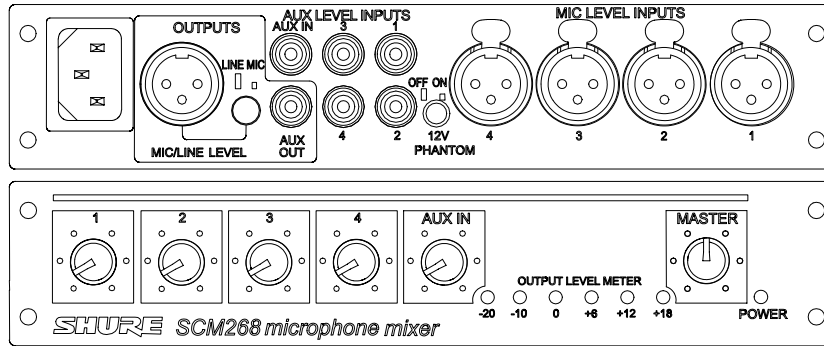
SCM268 TRANSFER BALANCED MICROPHONE MIXER

The Shure Model SCM268 is a transformer-balanced, four-channel microphone mixer. Its simple, compact design delivers superior performance and exceptional sound quality with low noise and a flat frequency response.

Versatile in all types of applications, the SCM268 integrates transformer-balanced XLR inputs, a switchable microphone/line level transformer-balanced XLR output, phono jack inputs and out-

put, phantom power, and an auxiliary input channel. It can function as a primary or add-on mixer for sound reinforcement, recording, broadcast, or audio-visual presentation systems.

With the supplied hardware, the mixer's half-rack chassis mounts securely in single or dual rackmount installations. For fixed installations, the SCM268 can be fastened on or below a shelf, counter, or tabletop.



SYSTEM FEATURES

- Four transformer-balanced microphone inputs
- Transformer-balanced output—switchable mic/line level
- Five -10 dB line-level inputs
- Six-segment LED output level meter

- Built-in 12-volt phantom power
- Internal power transformer
- Built-in low-cut filter on microphone inputs (below 80 Hz)

SPECIFICATIONS

Measurement Conditions (unless otherwise specified): Line voltage 120 Vac, 60 Hz (SCM268) or 230 Vac, 50 Hz (SCM268E); full gain; 1 kHz, one channel activated; source impedances: Mic 150 Ω, Aux Level 150 Ω; terminations: Line 600 Ω, Mic 600 Ω, Aux Out 10 kΩ. 12 V phantom power off.

Frequency Response (Ref 1 kHz, controls centered)

Microphone Inputs: 150 Hz to 20 KHz ±2 dB (built-in 80Hz low-cut)

Auxiliary Inputs: 20 Hz to 20 kHz ±2 dB

Low-Cut Filter (Microphone inputs only)

3dB down at 80 Hz, 6 dB/octave

Gain (typical, controls full clockwise)

Input	Output		
	Mic	Line	Aux Out
Low-impedance mic (150 Ω)	38 dB	76 dB	65 dB
Aux Level	3 dB	40 dB	29 dB

Inputs

Input	Impedance		Input Clipping Level
	Designed for use with	Actual (typical)	
Mic	19-600 Ω	1.2 kΩ	-5 dBV
Aux Level	≤2 kΩ	21 kΩ	>28 dBV

Outputs

Output	Impedance		Output Clipping Level
	Designed for use with	Actual (typical)	
Mic	low-Z inputs	0.2 Ω	-21 dBV
Line	>600 Ω	72 Ω	+18 dBV
Aux Out	>2 kΩ	870 Ω	+7 dBV

Total Harmonic Distortion

<0.25% at +4 dBu output level (through 22 Hz-22 kHz filter; Input 1 and Master centered, all other controls full counterclockwise)

Hum and Noise

Equivalent Input Hum and Noise -124 dBV (150 Ω source; through 22 Hz - 22 kHz filter)

Output Hum and Noise (through 22 Hz to 22 kHz filter; channel controls full counterclockwise)

Master full counterclockwise -92 dBV

Master full clockwise -70 dBV

Common Mode Rejection

>80 dB at 1 kHz

Polarity

All inputs to all outputs are non-inverting

Overload and Shorting Protection

Shorting outputs, even for prolonged periods, causes no damage. Microphone inputs are not damaged by signals up to +10 dBV; Auxiliary inputs by signals up to +36 dBV

Phantom Power

12 Vdc open-circuit through 340Ω series resistance

Operating Voltage

SCM268: 100–120 Vac rated nominal, 50/60 Hz, 60 mA
 SCM268E: 220–240 Vac rated nominal, 50/60 Hz, 30 mA

Temperature Range

Operating –7° to 49° C (20° to 120° F)
 Storage –29° to 74° C (–20° to 165° F)

Overall Dimensions

44 mm H x 218 mm W x 162 mm D
 (1.72 x 8.60 x 6.37 inches)

Net Weight

1.20 Kg (2 lbs, 10 oz)

Certifications

SCM268: UL & cUL Listed by Underwriters Laboratories, Inc.
 SCM268E: Eligible to bear CE Marking. Conforms to European EMC Directive 89/336/EEC. Meets applicable tests and performance criteria in European Standard EN55103 (1996) parts 1 and 2, for residential (E1) and light industrial (E2) environments.

Replacement Parts

Knob, Master (blue) 95B8752
 Knob, Channel Gain (white) 95A8752

Line (Power) Cords:

..... SCM268: 100–120 Vac (US/Canada)	95A8762
..... SCM268E: 220–240 Vac (EU)	95A8778
Fuse, SCM268 (5x20 mm, 250V, 80mA, slow-blow)	80A730
Fuse, SCM268E (5x20 mm, 250V, 40mA, slow-blow)	80J258
Hardware Kit	90AA8100
Link Bars (Bracket)	53A8443
Single Mount Kit	53A8484
Dual Mount Kit	53B8484
Optional Accessories Line (Power) Cord, 230–240 Vac (UK)	95A8713
Line (Power) Cord, 230–240 Vac (UK)	95A8713