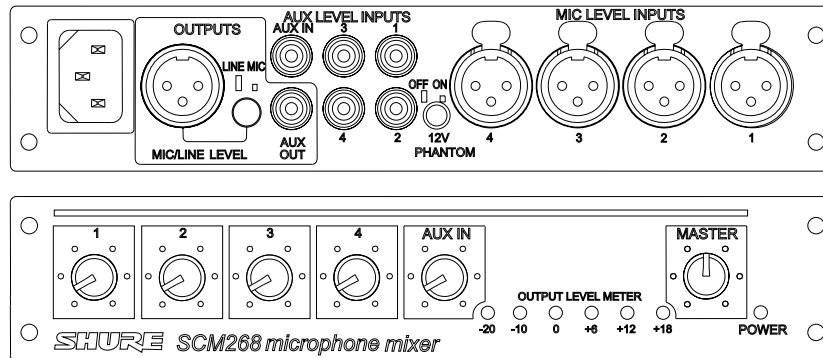


### SCM268 TRANSFORMER BALANCED MICROPHONE MIXER

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 output, 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 80 Hz 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 | 32 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 counter clockwise)

##### Hum and Noise (150 Ω source; through 22 Hz–22 kHz filter)

Equivalent Input Hum and Noise: -124 dBV

##### Output Hum and Noise (through 22 Hz–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

# SCM268 MICROPHONE MIXER SPECIFICATION SHEET

## 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,<br>230-240 Vac (UK)..... | 95A8713  |
| Line (Power) Cord, 230-240 Vac (UK).....                         | 95A8713  |



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