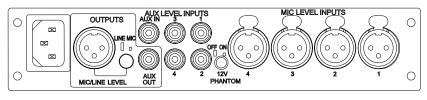


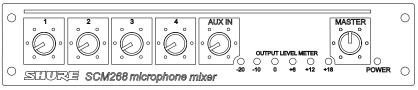
# **SCM268 TRANSFORMER BALANCED MICROPHONE MIXER**

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  $\Omega$ , Aux Level 150  $\Omega$ ; terminations: Line 600  $\Omega$ , Mic 600  $\Omega$ , Aux Out 10 k $\Omega$ . 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 $\Omega$ ) | 38 dB  | 76 dB | 65 dB   |
| Aux Level                         | 3 dB   | 40 dB | 29 dB   |

### Inputs

| Input     | Impedance                |                     |                         |
|-----------|--------------------------|---------------------|-------------------------|
|           | Designed for<br>use with | Actual<br>(typical) | Input<br>Clipping Level |
| Mic       | 19-600 Ω                 | 1.2 kΩ              | –5 dBV                  |
| Aux Level | 32 kΩ                    | 21 kΩ               | >28 dBV                 |

### Outputs

| Output  | Impedance                | Impedance        |                          |
|---------|--------------------------|------------------|--------------------------|
|         | Designed for<br>use with | Actual (typical) | Output Clipping<br>Level |
| 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  $\Omega$  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  $340\Omega$  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**

