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)

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
<th>Mic</th>
<th>Line</th>
<th>Aux Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-impedance</td>
<td></td>
<td>38 dB</td>
<td>76 dB</td>
<td>65 dB</td>
</tr>
<tr>
<td>mic (150 Ω)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aux Level</td>
<td></td>
<td>3 dB</td>
<td>40 dB</td>
<td>29 dB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input</th>
<th>Impedance</th>
<th>Designed for use with</th>
<th>Actual (typical)</th>
<th>Output Clipping Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mic</td>
<td>low-Z inputs</td>
<td>0.2 Ω</td>
<td>–21 dBV</td>
<td></td>
</tr>
<tr>
<td>Line</td>
<td>&gt;600 Ω</td>
<td>72 Ω</td>
<td>+18 dBV</td>
<td></td>
</tr>
<tr>
<td>Aux Out</td>
<td>&gt;2 kΩ</td>
<td>870 Ω</td>
<td>+7 dBV</td>
<td></td>
</tr>
</tbody>
</table>

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.
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