

## Shure SCM800

# Shure SCM800 Eight Channel Microphone Mixer Instruction Manual

Model: SCM800

## 1. INTRODUCTION

The Shure SCM800 is an eight-channel microphone mixer designed for professional audio applications, including sound reinforcement, general audio recording, and audio-visual systems. It offers robust features for managing multiple audio inputs with high fidelity and control.



*Image: Front and rear panels of the Shure SCM800 Eight Channel Microphone Mixer. The front panel shows eight input level controls, an auxiliary input, master level, limiter indicator, and headphone output. The rear panel displays power input, link connections, and eight microphone/line inputs with phantom power switches.*

## 2. KEY FEATURES

- Compatibility with any low-impedance, balanced microphone, including wireless microphone systems.
- Eight microphone- or line-level inputs and one auxiliary-level input.
- 48V phantom power selectable for each input.
- Adjustable EQ per channel: low-frequency rolloff and high-frequency shelving.
- Linking capability for systems up to 32 microphones.
- Front-panel headphones output with level control.
- Highly RF resistant chassis and circuitry.
- Peak-responding output limiter.
- Full rack width (single rack height) for easy integration into existing setups.

## 3. SETUP INSTRUCTIONS

- Power Connection:** Connect the mixer to a standard AC power outlet using the provided power cable. Ensure the power switch is in the OFF position before connecting.
- Input Connections:**
  - For microphones, connect balanced XLR cables to the desired input channels on the rear panel.
  - For line-level sources, use appropriate TRS or XLR cables to connect to the input channels.
  - If using microphones requiring phantom power, locate the individual phantom power switches for each channel on the rear panel and set them to ON. The phantom power LED on the front panel will illuminate.
  - The Aux input on the front panel can be used for additional line-level sources.
- Output Connections:** Connect the main outputs (XLR or TRS) to your amplifier, recording device, or sound system.
- Headphone Connection:** For monitoring, connect headphones to the front-panel headphone jack.
- Linking Multiple Mixers (Optional):** To expand the system, connect the LINK OUT of one SCM800 to the LINK IN of another SCM800 using a compatible cable. This allows for up to 32 microphone and line-level inputs.
- Initial Power On:** After all connections are secure, switch the power ON.

## 4. OPERATING INSTRUCTIONS

- Input Level Adjustment:** For each active input channel, slowly turn the corresponding input level knob clockwise until the desired signal level is achieved. Monitor the signal level indicators to avoid clipping.
- Master Level Control:** Adjust the MASTER level knob to control the overall output volume of the mixer.
- Equalization (EQ):** Each channel features adjustable EQ.
  - Use the low-frequency rolloff to reduce unwanted bass frequencies.
  - Use the high-frequency shelving to adjust the treble response.
- Output Limiter:** The SCM800 includes a peak-responding output limiter to prevent signal distortion. The LIMITER LED on the front panel will illuminate when the limiter is active. Adjust input levels to minimize limiter activation for optimal sound quality.
- Headphone Monitoring:** Use the PHONES level control to adjust the volume for headphone monitoring without affecting the main output.

## 5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Shure SCM800 mixer.

- Cleaning:** Use a soft, dry cloth to clean the exterior of the mixer. Avoid using abrasive cleaners, solvents, or harsh chemicals.
- Ventilation:** Ensure adequate airflow around the unit to prevent overheating. Do not block ventilation openings.
- Storage:** When not in use for extended periods, store the mixer in a cool, dry environment, protected from dust and extreme temperatures.
- Cable Management:** Regularly inspect all cables for wear and tear. Replace damaged cables to prevent signal loss or electrical hazards.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your SCM800 mixer.

Problem	Possible Cause	Solution
No sound output	Power not connected or switched on. Input/output cables incorrectly connected. Input or Master level knobs set too low. Phantom power not enabled for condenser microphones.	Verify power connection and switch. Check all cable connections. Increase input and Master level knobs. Activate phantom power for relevant channels.
Distorted audio	Input levels too high, causing clipping. Output level too high, overloading connected equipment. Faulty cable or microphone.	Reduce input levels until the LIMITER LED flashes minimally or not at all. Lower the Master level. Test with different cables and microphones.
Hum or noise	Ground loop. Unbalanced cables used for long runs. Interference from other electronic devices.	Ensure all equipment is on the same electrical circuit or use a ground loop isolator. Use balanced XLR or TRS cables. Move the mixer away from potential sources of interference.

## 7. SPECIFICATIONS

Feature	Detail
Brand	Shure
Model Number	SCM800
Item Weight	13.35 pounds
Product Dimensions	22.2 x 16.5 x 2.6 inches
Mixer Channel Quantity	8
Number of Channels	8
Power Source	Corded Electric
Connectivity Technology	Aux, Wireless (for compatible systems)
Output Connector Type	XLR, TRS
Phantom Power	48V, selectable per input

## 8. WARRANTY AND SUPPORT

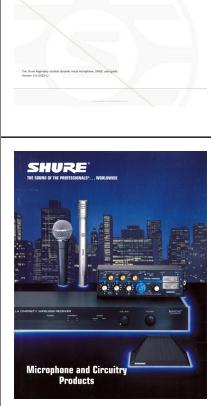
For warranty information, technical support, or service inquiries regarding your Shure SCM800 mixer, please refer to the official Shure website or contact Shure customer service directly.

It is recommended to register your product upon purchase to facilitate any future support needs.

**Online Resources:** Visit the official Shure website for product documentation, FAQs, and support contact information.

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## Related Documents - SCM800

	<p><a href="#"><u>Shure SCM820 Digital IntelliMix Automatic Mixer User Guide</u></a></p> <p>Comprehensive user guide for the Shure SCM820 Digital IntelliMix Automatic Mixer, detailing its features, operation, installation, networking capabilities, Digital Feedback Reduction (DFR), logic functions, troubleshooting, and technical specifications.</p>
	<p><a href="#"><u>Shure SM81 Instrument Microphone User Guide</u></a></p> <p>Comprehensive user guide for the Shure SM81, a high-quality, unidirectional condenser microphone designed for studio recording, broadcasting, and sound reinforcement. Features include detailed specifications, operating instructions, and accessory information.</p>
	<p><a href="#"><u>Shure SM58 Vocal Microphone User Guide</u></a></p> <p>Comprehensive user guide for the Shure SM58 cardioid dynamic vocal microphone, covering general description, features, placement, applications, specifications, accessories, and certifications.</p>
	<p><a href="#"><u>Shure Professional Microphones and Audio Circuitry Products Catalog</u></a></p> <p>Explore Shure's comprehensive catalog of professional audio equipment, including dynamic and condenser microphones for vocal, instrument, and specialty applications, wireless microphone systems, and advanced audio circuitry products like mixers and problem solvers. Discover Shure's commitment to quality, reliability, and innovative sound solutions for professionals worldwide.</p>

 The image shows the Shure BETA27 instrument microphone, a black condenser microphone with a silver grille and a black cable. The Shure logo is in the top right corner of the image area.	<p><a href="#"><u>Shure BETA27 Instrument Microphone User Guide and Specifications</u></a></p> <p>Comprehensive user guide and technical specifications for the Shure BETA27 supercardioid condenser instrument microphone. Learn about its features, performance characteristics, applications, and setup.</p>
 The image shows the Shure MV5 digital condenser microphone, a black microphone with a silver grille and a black cable. The Shure logo is in the top right corner of the image area.	<p><a href="#"><u>Shure MV5 Digital Condenser Microphone User Guide</u></a></p> <p>Comprehensive user guide for the Shure MV5 Digital Condenser Microphone, covering setup, features, placement, troubleshooting, system requirements, and specifications for optimal audio recording.</p>