

SIKUING CS-16

SIKUING CS-16 16 Channel Mixer Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your SIKUING CS-16 16 Channel Mixer. This professional audio mixing console is designed for various applications including live sound, recording studios, DJ performances, and karaoke. It features 16 input channels, Bluetooth connectivity, 99 DSP effects, USB recording, and +48V phantom power.



Image 1: SIKUING CS-16 16 Channel Mixer highlighting its main features.

2. SAFETY INFORMATION

- **Power Supply:** Use only the specified power adapter. Ensure the voltage matches your local power supply.
- **Water and Moisture:** Do not expose the mixer to water or excessive moisture. Avoid placing liquids near the device.

- **Ventilation:** Ensure adequate ventilation around the mixer to prevent overheating. Do not block ventilation openings.
- **Cleaning:** Disconnect power before cleaning. Use a dry, soft cloth. Do not use liquid cleaners or aerosols.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Placement:** Place the mixer on a stable, level surface. Avoid placing it near heat sources or in direct sunlight.

3. PRODUCT OVERVIEW

3.1 Front Panel Controls and Connectors

The SIKUING CS-16 mixer features a comprehensive set of controls and connectors for versatile audio management. Refer to the diagram below for an overview of the panel layout.

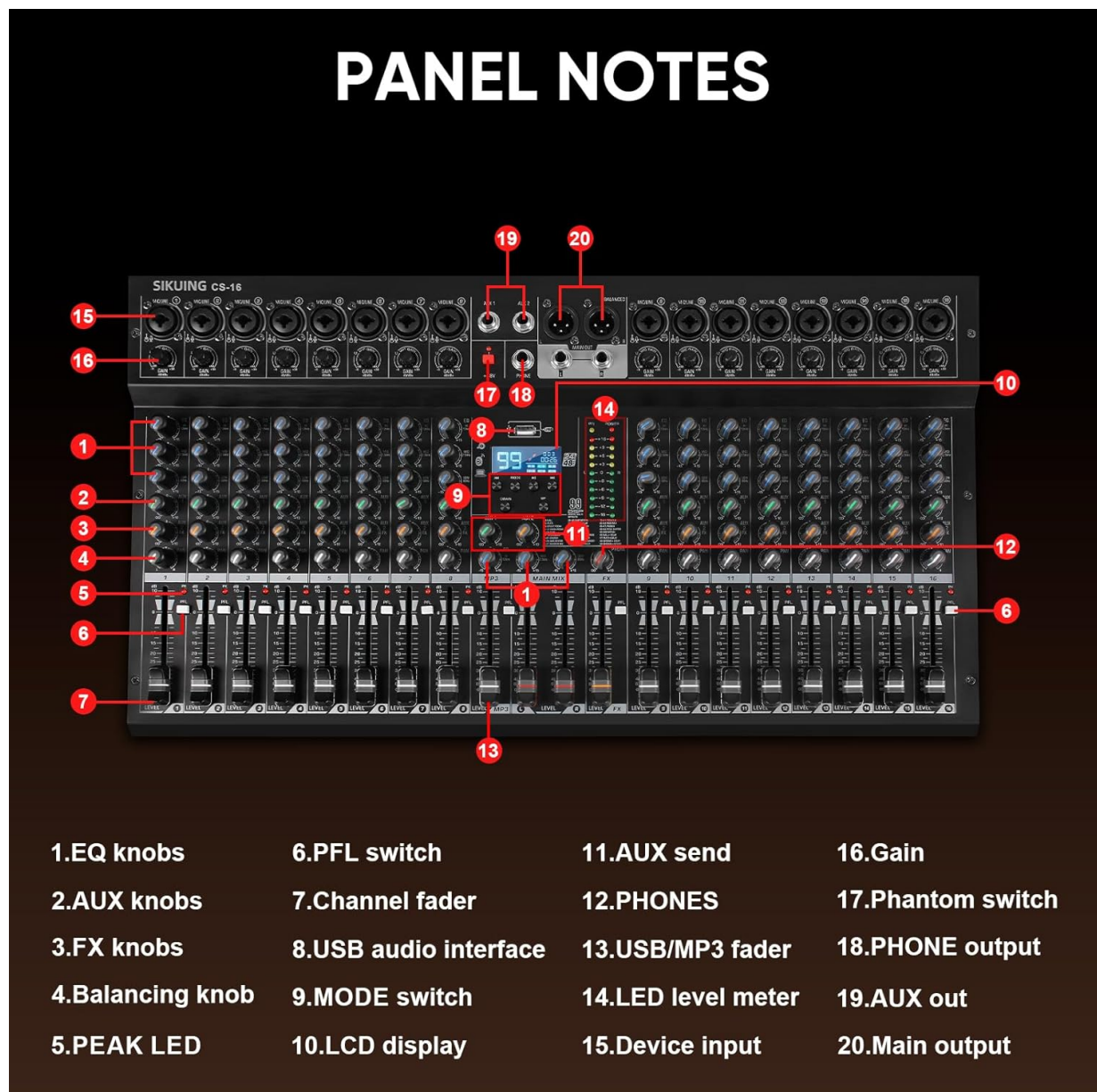


Image 2: Front Panel Notes and Controls.

- **1. EQ Knobs:** Adjust high, mid, and low frequencies for each channel.

- **2. AUX Knobs:** Control the auxiliary send level for each channel.
- **3. FX Knobs:** Adjust the effect send level for each channel.
- **4. Balancing Knob:** Adjusts the pan (left/right) for each channel.
- **5. PEAK LED:** Indicates when the input signal is clipping.
- **6. PFL Switch:** Pre-Fader Listen switch for monitoring individual channels.
- **7. Channel Fader:** Adjusts the volume level for each input channel.
- **8. USB Audio Interface:** Connects to a computer for recording or playback.
- **9. MODE Switch:** Selects different modes for the MP3 player/USB interface.
- **10. LCD Display:** Shows current settings, DSP effect number, and playback information.
- **11. AUX Send:** Output for sending signals to external effects processors or monitors.
- **12. PHONES:** Headphone output jack.
- **13. USB/MP3 Fader:** Controls the volume level for USB/MP3 playback.
- **14. LED Level Meter:** Displays the main output level.
- **15. Device Input:** Input jacks for various audio devices (XLR/TRS combo).
- **16. Gain:** Adjusts the input sensitivity for each channel.
- **17. Phantom Switch:** Activates +48V phantom power for condenser microphones.
- **18. PHONE Output:** Headphone output.
- **19. AUX Out:** Auxiliary output.
- **20. Main Output:** Balanced XLR and unbalanced TRS outputs for connecting to amplifiers or powered speakers.

3.2 Key Features

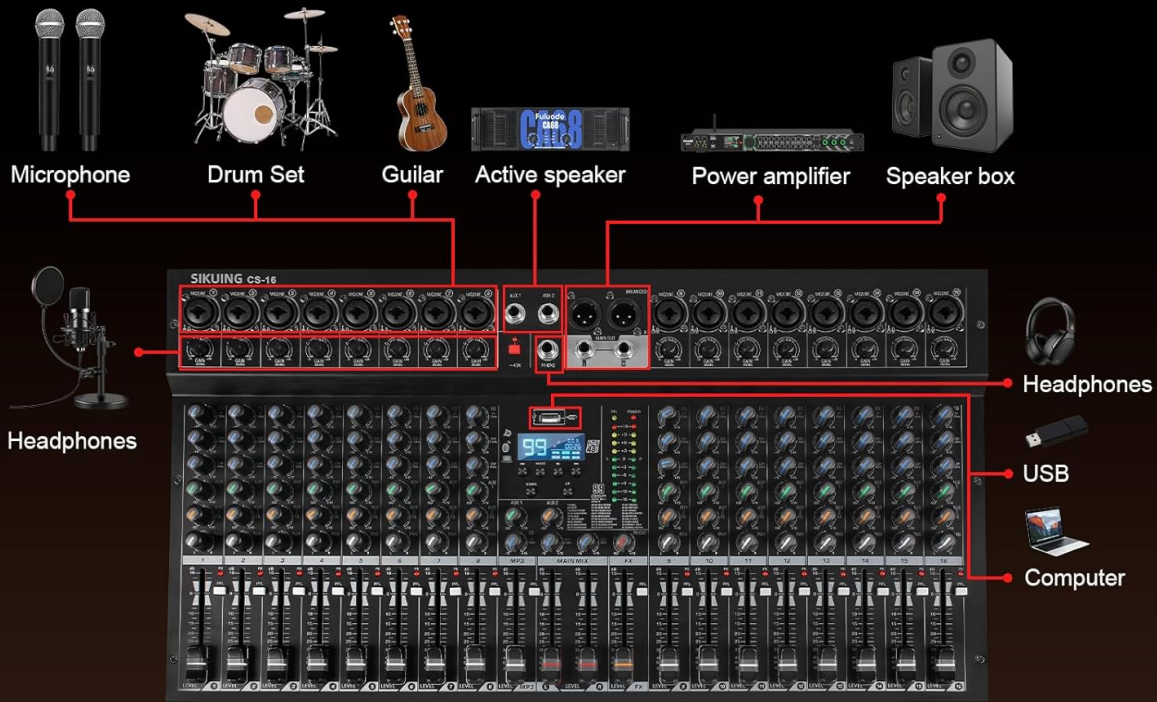
- **16 Independent Input Channels:** Allows simultaneous connection of microphones, guitars, drum kits, computers, and other audio devices.
- **Built-in 99 DSP Effects:** Professional DSP effects processor with 99 preset reverb modes for enhanced audio expressiveness.
- **Bluetooth 5.0 Connectivity:** Stable, low-latency wireless connection for audio streaming from compatible devices.
- **USB Audio Interface & MP3 Player:** Connects to computers for recording or plays music directly from USB drives.
- **+48V Phantom Power:** Dedicated phantom power for condenser microphones with an LED indicator.
- **Intuitive Controls:** Features PFL private listening, LED level meters, dedicated headphone monitoring, and smooth-damping faders.

4. SETUP

4.1 Connecting Audio Devices

The CS-16 mixer supports a wide range of audio input and output devices. Ensure all connections are secure before powering on the mixer.

SUPPORTS MULTI-DEVICE CONNECTIONS



Optimum Boot Order :

TV → Audio Amplifier → Speaker → Receiver → Microphone

Optimum Shutdown Order :

Microphone → Receiver → Speaker → Audio Amplifier → TV

Image 3: Multi-device connection examples.

1. **Microphones/Instruments:** Connect microphones (XLR) or instruments (TRS) to the MIC/LINE input jacks (15). Adjust the GAIN knob (16) for appropriate input levels.
2. **Phantom Power:** For condenser microphones, activate the +48V PHANTOM switch (17). An LED indicator will confirm activation.
3. **Main Output:** Connect the MAIN OUT (20) to your power amplifier or powered speakers using XLR or TRS cables.
4. **Headphones:** Plug your headphones into the PHONES jack (12/18) for monitoring.
5. **USB Devices:** Insert a USB drive into the USB port (8) for MP3 playback or connect a computer via USB for recording/playback.
6. **External Effects/Monitors:** Use the AUX SEND (11) and AUX OUT (19) for connecting external effects processors or stage monitors.

4.2 Powering On/Off Sequence

To prevent damage to your audio equipment, follow the recommended power sequence:

- **Boot Order:** TV → Audio Amplifier → Speaker → Receiver → Microphone.

- **Shutdown Order:** Microphone → Receiver → Speaker → Audio Amplifier → TV.

Video 1: Demonstrates various connections, USB playback, headphone monitoring, Bluetooth pairing, and connecting to an amplifier.

5. OPERATION

5.1 Basic Mixing

1. **Input Level Adjustment:** Use the GAIN knob (16) for each channel to set the input level. The PEAK LED (5) should flash only occasionally.
2. **Channel Volume:** Adjust the CHANNEL FADER (7) to control the volume of each individual input.
3. **Equalization (EQ):** Use the EQ knobs (1) (HI, MID, LOW) to shape the tone of each channel.
4. **Pan/Balance:** The BALANCING knob (4) adjusts the stereo position of the channel.
5. **Main Mix:** Use the MAIN MIX fader to control the overall output volume. Monitor the LED LEVEL METER (14) to avoid clipping.

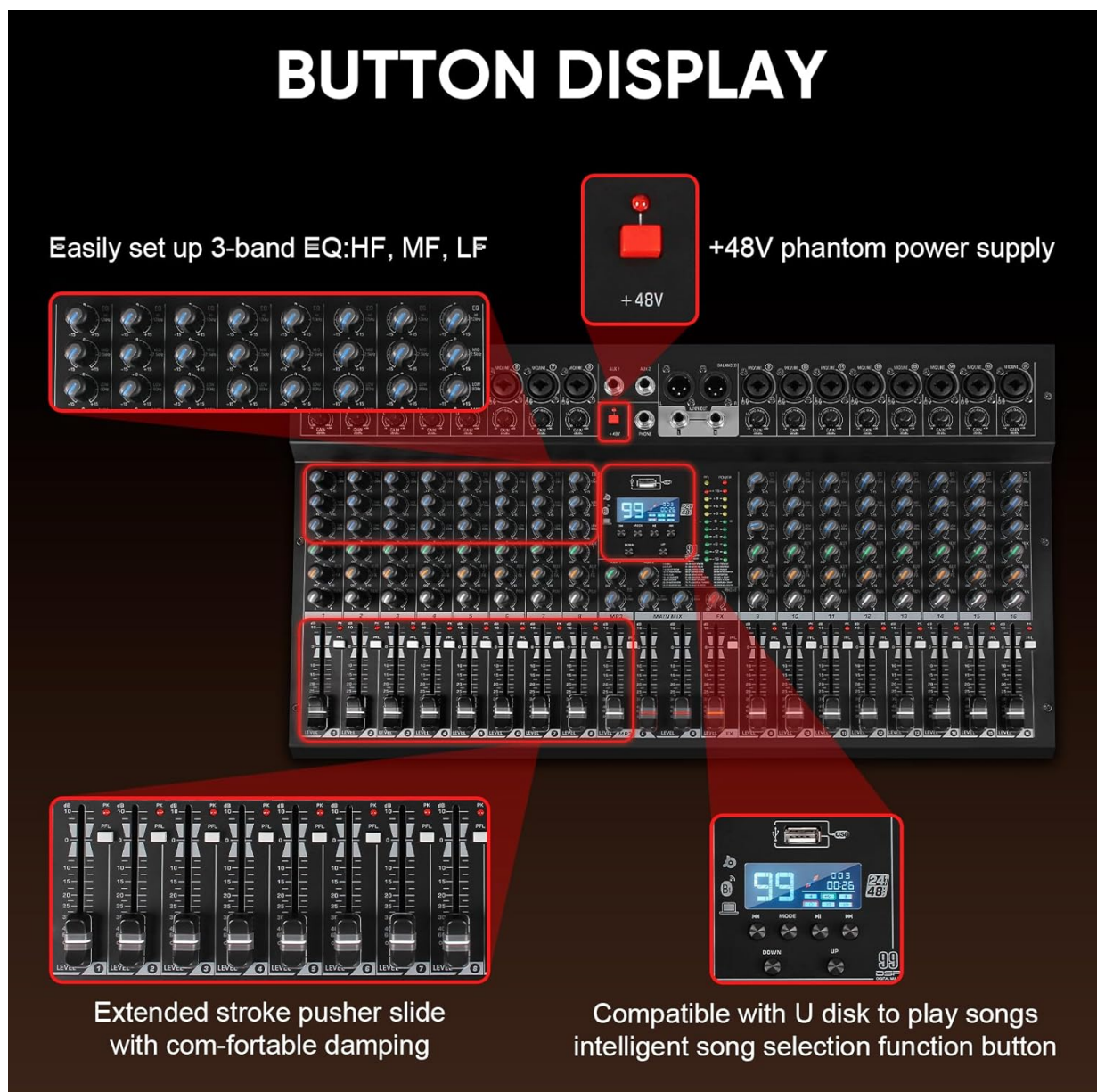


Image 4: Detailed view of EQ, faders, and USB controls.

5.2 DSP Effects

The mixer includes 99 preset DSP effects to enhance your sound.



Image 5: 99 DSP Preset Reverb Effects.

1. **Select Effect:** Use the 'DOWN' and 'UP' buttons next to the LCD DISPLAY (10) to cycle through the 99 DSP effects. The selected effect number will be shown on the display.
2. **Apply Effect:** Use the FX knobs (3) on each channel to send that channel's signal to the selected DSP effect.

5.3 Bluetooth and USB Playback

The mixer supports wireless Bluetooth 5.0 and USB drive playback.

WIRELESS BLUETOOTH 5.0

Transmission Stability, Quality Assurance



Image 6: Wireless Bluetooth 5.0 Connectivity.

USB COMPUTER CONNECTION

Compatible with USB, MP3. Connect external USB, computer or flash memory devices to mix and record



Image 7: USB Computer Connection and Playback.

- **Bluetooth Pairing:** Activate Bluetooth on your device and search for the mixer (e.g., "MeiTeng"). Pair the devices. Audio will stream wirelessly to the mixer.
- **USB Playback:** Insert a USB drive with audio files into the USB port (8). Use the MODE switch (9) and playback controls on the mixer to navigate and play tracks. Adjust volume with the USB/MP3 FADER (13).

6. MAINTENANCE

- **Cleaning:** Regularly wipe the surface of the mixer with a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Dust Protection:** When not in use, cover the mixer to protect it from dust and debris.
- **Fader Care:** Keep faders and knobs free from dust and liquids to ensure smooth operation.
- **Cable Management:** Ensure cables are neatly organized and not under strain to prevent damage to connectors.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound output	Incorrect connections, faders down, mute engaged, amplifier off.	Check all cable connections. Ensure channel and main faders are up. Verify amplifier is on and working.
Distorted sound	Input gain too high, output level too high, damaged cables.	Reduce input GAIN (16) and main output level. Check PEAK LEDs (5). Replace faulty cables.
Microphone not working	No phantom power (for condenser mics), faulty mic/cable, gain too low.	Activate +48V PHANTOM (17) if using a condenser mic. Test with a different mic/cable. Increase GAIN (16).
Bluetooth not connecting	Bluetooth not enabled, device too far, incorrect pairing.	Ensure Bluetooth is enabled on both devices. Keep devices within range. Re-attempt pairing.
USB playback issues	Unsupported file format, corrupted USB drive, incorrect mode.	Ensure audio files are in a supported format (e.g., MP3). Try a different USB drive. Check MODE (9) setting.

8. SPECIFICATIONS

- **Brand:** SIKUING
- **Model Number:** CS-16
- **Number of Channels:** 16
- **Connectivity Technology:** Bluetooth, USB
- **Power Source:** Corded Electric
- **Output Connector Type:** Auxiliary, USB Type B
- **Audio Input:** XLR, TRS
- **DSP Effects:** 99 preset reverb modes
- **Phantom Power:** +48V

9. WARRANTY AND SUPPORT

The SIKUING CS-16 mixer comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

For technical support, warranty claims, or service inquiries, please contact SIKUING customer support through your retailer or the official SIKUING website. Please have your purchase receipt and product model number (CS-16) available when contacting support.