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- › TFCFL /
- › TFCFL 8 Channel Mixing Console Audio Mixer User Manual

TFCFL 8 Channel

TFCFL 8 Channel Mixing Console Audio Mixer User Manual

1. INTRODUCTION

This manual provides detailed instructions for the TFCFL 8 Channel Mixing Console Audio Mixer. This device is designed for various audio applications, including home KTV, campus language labs, conferences, bars, stage performances, music dining venues, and recording studios. It features 8 input channels, Bluetooth connectivity, and USB drive support for PC recording.

Important Note: The mixing console requires an external amplifier for operation. The console itself may produce noise levels below -60dB.



Figure 1: Top-down view of the TFCFL 8 Channel Mixing Console, illustrating the layout of all controls and input/output ports.

2. SAFETY PRECAUTIONS

- Read this user manual thoroughly before operating the device.
- Ensure the power supply matches the specified voltage (AC 110V 50Hz).
- Do not expose the mixer to rain or moisture to prevent electric shock or fire.
- Avoid placing the mixer near heat sources or in direct sunlight.
- Always disconnect the power adapter before cleaning or servicing.
- Only use attachments/accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x TFCFL 8 Channel Mixing Console
- 1 x Power Adapter (Model: LWV, 16PS)

- 1 x English User Manual



Figure 2: The complete package contents, including the mixing console, power adapter, and user manual.

4. PRODUCT OVERVIEW AND FEATURES

The TFCFL 8 Channel Mixing Console is a robust audio mixer designed for versatile sound control. Key features include:

- **8 Input Channels:** Accommodates multiple microphones and line-level instruments.
- **High-Quality Construction:** Features metal jacks, gold-plated XLRs, and sealed potentiometers for durability.
- **High Performance Preamps:** Offers +34dBu maximum input capability for mic or line inputs.
- **Balanced XLR Outputs:** Provides +26dBu drive capability for clean audio transmission.
- **Bluetooth Connectivity:** Seamlessly connect wireless devices for audio playback.
- **USB/Flash Reader/MP3 Support:** Easy integration for playback and recording.
- **Responsive 3-Band EQ:** High (HF), Mid (MF), and Low (LF) frequency adjustment on each channel.
- **Integrated Effects:** Built-in digital effects (FX) with Delay (DLY) and Repeat (REP) controls.
- **+48V Phantom Power:** Essential for condenser microphones.
- **Monitoring Options:** Dedicated headphone and local monitor outputs.
- **Ultra-Low Noise Design:** Minimizes unwanted background noise.



Figure 3: Detailed view of the mixing console, highlighting features like the heat sink for efficient dissipation, USB slot with LED screen, +48V phantom power, stable bottom feet, smooth faders, and LED signal indicators.

5. SETUP

5.1 Power Connection

1. Ensure the mixer's power switch is in the OFF position.
2. Connect the provided power adapter to the mixer's power input port on the rear panel.
3. Plug the power adapter into a standard AC 110V 50Hz electrical outlet.
4. Turn the mixer's power switch ON. The POWER indicator will illuminate.

5.2 Input Connections

The mixer features 8 mono input channels, each with an XLR microphone input and a 1/4" TRS line input.

- **Microphones:** Connect microphones to the XLR inputs (labeled 'MIC'). For condenser microphones requiring phantom power, activate the +48V switch located in the master section. Ensure all microphone gains are set to minimum before engaging phantom power.
- **Line-Level Devices:** Connect instruments or other line-level audio sources (e.g., keyboards, drum

machines) to the 1/4" TRS 'LINE' inputs.

5.3 Output Connections

- **Main Output:** Connect the 'L MAIN R' XLR outputs to your amplifier or powered speakers. Remember, an amplifier is required.
- **Headphones:** Plug headphones into the 'PHONES' 1/4" TRS jack. Adjust headphone volume using the dedicated 'HEADPHONES' knob.
- **AUX Send/Return:** Use the 'AUX SEND' and 'RETURN' jacks for connecting external effects processors or monitor systems.
- **2-Track Send/Return:** The RCA 'TAPE IN' and 'TAPE OUT' jacks allow connection to recording devices or playback sources.



Figure 4: The rear panel of the mixing console, displaying the power input, balanced main outputs, and auxiliary inputs/outputs for external connections.

6. OPERATING INSTRUCTIONS

6.1 Channel Controls (Channels 1-8)

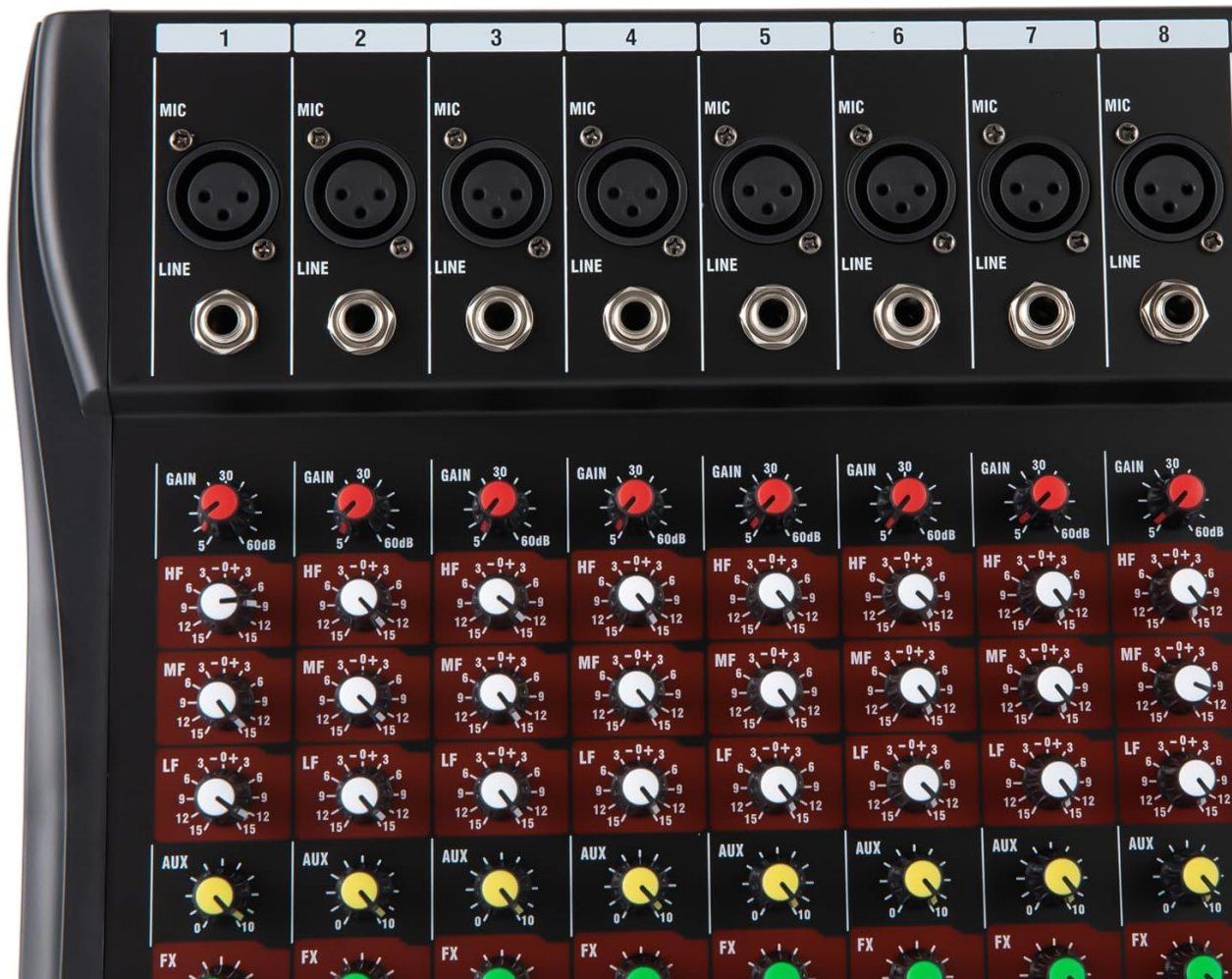


Figure 5: Close-up of individual channel controls, including GAIN, 3-band EQ (HF, MF, LF), AUX, FX, PAN, and channel faders.

- **GAIN:** Adjusts the input sensitivity for each channel. Start with the knob fully counter-clockwise and gradually increase until the signal is strong without clipping (indicated by the PFL/CLIP LED).
- **EQ (HF, MF, LF):** Three-band equalizer for shaping the tone of each channel. HF (High Frequency), MF (Mid Frequency), and LF (Low Frequency) knobs allow boosting or cutting specific frequency ranges.
- **AUX:** Controls the amount of signal sent to the auxiliary output, typically used for monitor mixes.
- **FX:** Controls the amount of signal sent to the internal effects processor.
- **PAN:** Adjusts the stereo position of the channel's signal (left to right).
- **PFL (Pre-Fader Listen):** Activates pre-fader listening for the channel, allowing monitoring through headphones without affecting the main mix.
- **Channel Fader:** Controls the volume level of the individual channel in the main mix.

6.2 Master Section Controls



Figure 6: The master control section, featuring USB/MP3 player controls, effects parameters, AUX/Tape input, headphone volume, and main output level meters.

- **USB/MP3 Player:**

- **USB Port:** Insert a USB flash drive with MP3 files.
- **Display:** Shows track information and mode.
- **Controls:** Use the buttons (MENU, PLAY/PAUSE, SKIP TRACKS) to navigate and control playback.
- **Mode Switch:** Toggle between USB, Bluetooth, and other input modes.

- **Bluetooth Connectivity:**

- Switch the USB/MP3 player to Bluetooth mode.
- On your mobile device, search for available Bluetooth devices and select the mixer (usually named 'BT-AUDIO' or similar).
- Once paired, audio from your device will play through the mixer.



Figure 7: Illustration of the mixing console's Bluetooth capability, allowing wireless audio streaming from a smartphone.

- **Effects (FX):**

- **FX Knob:** Controls the overall level of the internal effects.
- **DLY (Delay):** Adjusts the delay time of the effect.
- **REP (Repeat):** Adjusts the number of repetitions for the delay effect.

- **AUX MST:** Master level control for the auxiliary send.
- **TAPE INPUT:** Volume control for the RCA 'TAPE IN' input.
- **HEADPHONES:** Volume control for the headphone output.
- **PFL/AFL:** Pre-Fader Listen / After-Fader Listen switch for monitoring.
- **Main Faders (L MAIN R):** Controls the overall output volume of the stereo main mix.
- **Level Meters:** LED indicators display the output level of the main mix, ranging from -24dB to CLIP. Adjust main faders to keep levels below CLIP to avoid distortion.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the mixer's surface. Avoid liquid cleaners or abrasive materials.
- **Storage:** Store the mixer in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Ensure cables are not kinked or strained to prevent damage to connectors and internal wiring.
- **Ventilation:** Do not block the ventilation slots on the mixer to ensure proper heat dissipation.

8. TROUBLESHOOTING

- **No Sound Output:**
 - Check if the mixer is powered on and connected to an amplifier.
 - Ensure main faders and channel faders are raised.
 - Verify all cables are securely connected.
 - Check if the correct input source is selected (e.g., USB, Bluetooth).
- **Distorted Sound:**
 - Reduce input GAIN levels on individual channels.
 - Lower the main faders if the CLIP indicator is frequently lighting up.
 - Check the amplifier's input level.
- **Bluetooth Connection Issues:**
 - Ensure the mixer is in Bluetooth mode.
 - Move the Bluetooth device closer to the mixer.
 - Try unpairing and re-pairing the device.
- **Excessive Noise:**
 - Ensure all unused inputs are muted or have their gain turned down.
 - Check for ground loops or faulty cables.
 - Verify that the mixer is connected to a properly grounded power outlet.

9. SPECIFICATIONS

Feature	Specification
Model	8 Channel Mixing Console

Feature	Specification
Color	Black
Material	Metal, Damping
Display	LED
Number of Channels	8
Max Input Level (MIC/Line)	+24dBu
Max Output Level (XLR)	+26dBu
Master Meters	10 Segment -24dB to CLIP
Frequency Response	20Hz to 30KHz \pm 0.5dB
Max Input Power	15W
THD+N (Channel Input to Mix Output)	<0.01%
Crosstalk at 1kHz (Fader/Mute Shut Off)	>85dB
Crosstalk at 1kHz (Inter Channel)	>82dB
Equivalent Input Noise	-122dBu (22Hz to 22KHz)
Residual Output Noise	<-90dBu
2-track Return	RCA, Unbalanced, 4K ohm, -2dBu
2-track Send	RCA, Unbalanced, <75 ohm, -2dBu
L/R Output	XLR Unbalanced, Pin 2 Hot, <75 ohm, +4dBu, Max.+22dBu
FX/AUX Output	TRS Unbalanced, Tip Hot, <75 ohm, -2dBu, Max.+18dBu
Headphones	TRS, Tip L, Ring R, 30 to 600 ohm Headphones Recommended
Mono Channel (XLR)	Balanced, Pin 2 Hot, 2K ohm, Sensitivity -40 to +14dBu
Mono Channel (TRS)	Balanced, Tip Hot, 10K ohm, Sensitivity -20 to +14dBu
Phantom Power	+48V
Power Adapter Input	AC 110V 50Hz, 18W
Power Adapter Output	AC 18Vx2, 350mA
Slide Length	7cm / 2.76inch
Product Dimensions	40 x 34 x 5 cm / 15.75 x 13.39 x 1.97 inches
Net Weight	4 kg / 8.82 lbs



Figure 8: Dimensions of the TFCFL 8 Channel Mixing Console.

10. WARRANTY AND SUPPORT

Specific warranty information is not provided in the product details. For support, please refer to the seller or the TFCFL brand store on Amazon. You can visit the TFCFL Store for more information or to contact customer service.