

## TFCFL CT120S-USB

# TFCFL CT120S-USB 12 Channel Live Studio Audio Mixer Instruction Manual

Model: CT120S-USB

## 1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your TFCFL CT120S-USB 12 Channel Live Studio Audio Mixer. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage.

The TFCFL CT120S-USB is a professional 12-channel mixing console designed for live sound, studio recording, and various audio applications. It features multiple input channels, comprehensive equalization, and integrated effects for versatile audio control.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- 12 channels with XLR and LINE inputs.
- 48V phantom power for condenser microphones.
- Each channel includes GAIN, 3-band EQ (High, Mid, Low), AUX, EFFECT, and PAN controls.
- Individual channel volume control faders.
- XLR (L/R) and 1/4" (L/R) stereo output jacks.
- REC (L/R) and headset interfaces.
- Master section with EFFECT level, output MAIN Faders, REPEAT, EFF SEND, DELAY, SEND, and RETURN knobs.
- USB input interface with LCD display and control buttons.
- Power and output level indicator lights for monitoring.
- PEL switch for individual channel monitoring.
- AUX send & return jacks for external effects.

## 2.2 Mixer Layout



**12 Channels  
Live Audio Sound Mixer**

**Figure 1:** Front view of the TFCFL CT120S-USB 12 Channel Live Studio Audio Mixer, highlighting its 12-channel capability.



Figure 2: Comprehensive view of the mixer's control surface, including microphone and line inputs, channel controls, and master section.



Figure 3: Detailed view of individual channel controls, including GAIN, 3-band EQ (High, Mid, Low), AUX, EFFECT, and PAN knobs.



**Figure 4:** Close-up of the master section, showing controls for overall effects, main output faders, and auxiliary send/return.

## 3. SETUP

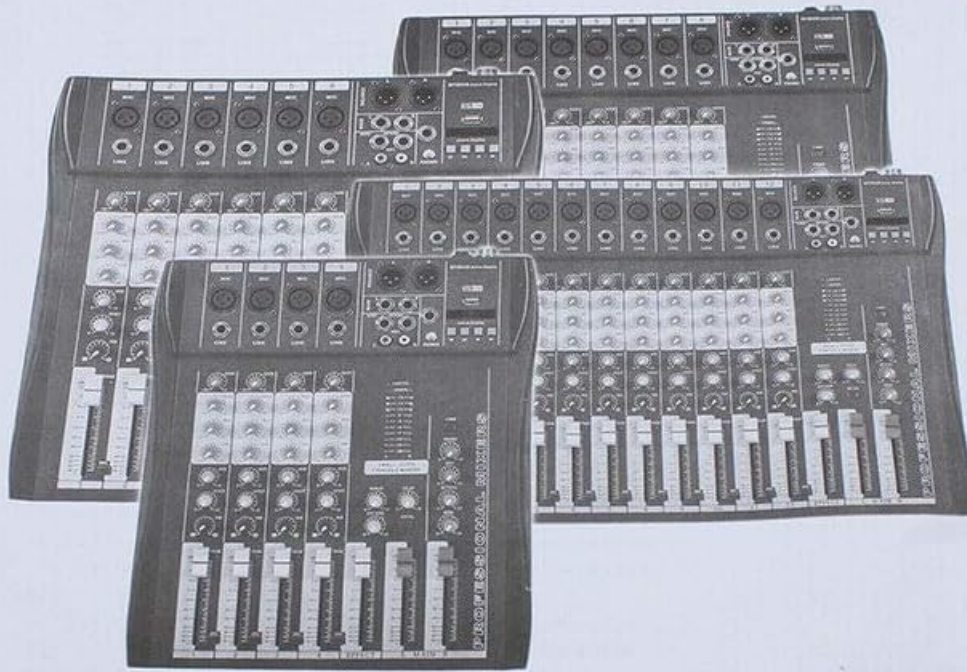
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### 3.1 Unpacking and Inspection

Carefully remove the mixer from its packaging. Inspect the unit for any signs of damage during transit. Ensure all components listed in the package contents are present:

- TFCFL CT120S-USB Mixing Console
- Power Adapter
- User Manual (English)

# 6,8,10,12,16 CHANNEL MIC/LINE MIXER OWNERS MANUAL



**Figure 5:** Included power adapter for the mixer.



Figure 6: Cover of the user manual.

### 3.2 Power Connection

1. Ensure the mixer's power switch is in the OFF position.
2. Connect the power adapter to the mixer's power input jack.
3. Plug the power adapter into a suitable AC power outlet.
4. Turn on the mixer using the power switch. The power indicator light will illuminate.

### 3.3 Input Connections

The mixer provides both XLR and 1/4" LINE inputs for each channel.

- **Microphones:** Connect microphones to the XLR inputs. For condenser microphones requiring power, activate the 48V phantom power switch (refer to Section 4.1).
- **Line-Level Devices:** Connect instruments, keyboards, or other line-level audio sources to the 1/4" LINE inputs.

### 3.4 Output Connections



Figure 7: Detailed view of the main output (XLR, 1/4"), recording output (REC), headset, and auxiliary send/return jacks.

- **Main Outputs:** Connect your main speakers or power amplifier to the XLR (L/R) or 1/4" (L/R) stereo output jacks.
- **Recording Outputs:** Use the REC (L/R) outputs to connect to a recording device.
- **Headphones:** Connect headphones to the dedicated headset interface for monitoring.
- **External Effects:** Use the AUX send and return jacks to integrate external effects processors.

## 4. OPERATING INSTRUCTIONS

### 4.1 Channel Controls

Each of the 12 input channels features the following controls:

- **GAIN:** Adjusts the input sensitivity for the connected microphone or line-level device. Set this to achieve a strong signal without clipping (indicated by the PEAK LED).
- **3-Band EQ (HIGH, MID, LOW):** Controls the treble, midrange, and bass frequencies of the channel. Adjust to shape the tone of the input signal.
- **AUX:** Sends a portion of the channel's signal to the auxiliary output, typically used for monitor mixes or external effects.
- **EFFECT:** Sends a portion of the channel's signal to the internal effects processor.
- **PAN:** Positions the channel's signal within the stereo field (left to right).
- **PEL (Pre-Fader Listen):** Activates pre-fader listening for the channel, allowing you to monitor the channel's signal through headphones without affecting the main mix.
- **Channel Fader:** Controls the overall volume level of the individual channel in the main mix.
- **48V Phantom Power:** A global switch (usually located near the master section) that supplies +48V DC power to all XLR inputs for condenser microphones. Ensure dynamic microphones are not connected when phantom power is active, unless they are designed to handle it.

### 4.2 Master Section Controls

The master section provides overall control for the mixer's output and effects:

- **EFFECT Level:** Adjusts the overall level of the internal effects.
- **MAIN Faders (L/R):** Controls the overall output volume of the stereo main mix.
- **REPEAT:** Adjusts the number of repetitions for delay effects.
- **EFF SEND:** Controls the amount of signal sent to the internal effects processor.
- **DELAY:** Adjusts the delay time for the internal delay effect.

- **SEND:** Controls the overall level sent to the AUX output.
- **RETURN:** Controls the level of the signal returning from the AUX input (e.g., from an external effects processor).

### 4.3 USB Input and MP3 Playback



**Figure 8:** Detailed view of the USB input port, LCD display, and control buttons for MP3 playback.

The integrated USB interface allows for direct playback of audio files from a USB drive or connection to a computer for recording/playback.

- Insert a USB drive containing MP3 files into the USB port.
- Use the LCD display and control buttons (Play/Pause, Skip, Mode) to navigate and play audio.
- The USB input level can be controlled via a dedicated fader or knob in the master section.

## 5. MAINTENANCE

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### 5.1 Cleaning

- Always disconnect the mixer from power before cleaning.
- Use a soft, dry cloth to wipe down the exterior of the mixer.
- For stubborn dirt, a slightly damp cloth with mild soap can be used, followed by a dry cloth.
- Avoid using abrasive cleaners, solvents, or waxes, as these can damage the finish and controls.
- Keep liquids away from all openings and controls.

### 5.2 Storage

When not in use, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures. If transporting, use appropriate protective casing to prevent physical damage.

## 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
No power	Power cable not connected; Power outlet faulty; Mixer power switch off.	Check power cable connection; Try a different outlet; Ensure power switch is ON.
No sound from a channel	Channel fader down; GAIN too low; Mute engaged; Incorrect input selected; Cable faulty.	Raise channel fader; Increase GAIN; Check for mute button; Verify input connection; Test with a different cable.
No sound from main outputs	Main faders down; Output cables disconnected; Amplifier off/faulty.	Raise main faders; Check main output cables; Ensure amplifier is on and functioning.
Distorted sound	GAIN too high (clipping); EQ settings extreme; Faulty cable/microphone.	Reduce GAIN until PEAK LED no longer illuminates; Adjust EQ to neutral or desired setting; Test with different cables/microphones.
Phantom power not working	48V switch off; Faulty XLR cable.	Ensure 48V phantom power switch is ON; Use a functional XLR cable.

## 7. SPECIFICATIONS

<b>Brand</b>	TFCFL
<b>Model Number</b>	CT120S-USB
<b>Number of Channels</b>	12
<b>Connectivity Technology</b>	XLR, RCA, USB, Auxiliary
<b>Power Source</b>	Corded Electric
<b>Voltage</b>	240 Volts (AC)
<b>Dimensions (W x D x H)</b>	52 cm x 34.5 cm x 4 cm (approx. 20.47" W x 13.58" D x 1.57" H)
<b>Item Weight</b>	5.3 Kilograms (approx. 11.66 pounds)



Figure 9: Mixer dimensions as labeled: 52cm width, 34.5cm depth, 4cm height.

## 8. SAFETY INFORMATION

- Do not expose this appliance to rain or moisture.
- Do not remove the cover. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the unit to prevent overheating.
- Use only the provided power adapter.
- Avoid placing the unit near heat sources or in direct sunlight.
- Keep out of reach of children.

## 9. WARRANTY AND SUPPORT

Specific warranty information for the TFCFL CT120S-USB mixer may vary by region and retailer. Please refer to your purchase documentation or contact your point of sale for details regarding warranty coverage.

For technical support or further inquiries, please visit the official TFCFL store or contact their customer service department. You can find more information at: TFCFL Store on Amazon.