RCF F10XR

RCF F-10XR 10 Channel Mixer User Manual

MODEL: F10XR

Brand: RCF

Introduction

The RCF F-10XR is a versatile 10-channel professional mixing console designed for a wide range of audio applications, from live sound to studio recording. It features high-quality preamplifiers, a comprehensive EQ section, built-in 24-bit multi-effects, and a USB audio interface for direct recording and playback. This manual provides detailed instructions for setting up, operating, and maintaining your F-10XR mixer to ensure optimal performance and longevity.

Safety Information

- **Power Supply:** Use only the specified power adapter. Ensure the voltage matches your local power supply. Disconnect power before cleaning or servicing.

- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.

- **Moisture:** Do not expose the unit to rain, moisture, or excessive humidity. Keep liquids away from the mixer.

- **Placement:** Place the mixer on a stable, flat surface. Avoid placing it near heat sources or in direct sunlight.

- **Servicing:** Do not attempt to service the unit yourself. Refer all servicing to qualified personnel.

- **Hearing Protection:** Prolonged exposure to high volume levels can cause permanent hearing damage. Use caution when setting output levels.

Setup

Follow these steps to set up your RCF F-10XR mixer:

1. **Unpacking:** Carefully remove the mixer from its packaging and inspect it for any signs of damage.

2. **Power Connection:** Connect the provided power adapter to the mixer's power input and then to a suitable electrical outlet. Ensure the mixer's power switch is in the OFF position before connecting.

3. **Input Connections:**

- **Microphones:** Connect microphones to the XLR (MIC IN) inputs on channels 1-4. For condenser microphones requiring phantom power, ensure the +48V switch is engaged (see Operating Instructions).
- **Line-Level Devices:** Connect instruments or other line-level devices to the 1/4" TRS (LINE IN) inputs on channels 1-4, or to the stereo 1/4" TRS (MONO/STEREO) inputs on channels 5/6, 7/8, and 9/10. Channels 7/8 and 9/10 also feature RCA inputs for stereo line-level sources.

4. **Output Connections:**
   - **Main Outputs:** Connect your main PA system or recording interface to the MAIN OUTPUT R and L XLR or 1/4" TRS jacks.
   - **Control Room:** Connect studio monitors to the CTRL ROOM OUTPUT 1/4" TRS jacks.
   - **Headphones:** Connect headphones to the PHONES OUTPUT 1/4" TRS jack.
   - **AUX Output:** Use the AUX OUTPUT 1/4" TRS jack for sending a monitor mix or external effects.

5. **USB Connection:** For stereo recording and playback, connect a USB cable from the mixer's USB port to your computer or compatible iOS device (with appropriate adapter).

Figure 1: Overview of the RCF F-10XR mixer's top panel, highlighting the various input and output connections, along with the main control sections for each channel, effects, and master outputs. The image clearly shows the MIC IN, LINE IN, STEREO LINE INPUTs, MAIN OUTPUT, CTRL ROOM OUTPUT, PHONES OUTPUT, and AUX OUTPUT sections, as well as the individual channel strips with GAIN, EQ, AUX/FX, PAN/BAL, and LEVEL controls. The PRO DSP FX section and the main mix fader are also visible.

Operating Instructions

Input Channels (1-4)

- **MIC IN** / **LINE IN:** XLR inputs for microphones and 1/4" TRS inputs for line-level signals.

- **GAIN:** Adjusts the input sensitivity for the connected microphone or line source. Set this to achieve a healthy signal level without clipping (indicated by the PEAK LED).

- **COMP (Channels 1 & 2 only):** Single-knob compressor for dynamic range control. Turn clockwise to increase compression.

- **EQ (High, Mid, Low):** 3-band equalizer for shaping the tone of the input signal.
  - **EQ HIGH (10 kHz):** Adjusts treble frequencies.
  - **EQ MID (1250 Hz):** Adjusts mid-range frequencies.
  - **EQ LOW (100 Hz):** Adjusts bass frequencies.

- **AUX/FX POST:** Sends a portion of the channel signal to the internal effects processor or external AUX output. This is a post-fader send, meaning its level is affected by the channel fader.

- **PAN:** Adjusts the stereo position of the channel signal in the main mix (left to right).

- **LEVEL:** The main fader for controlling the output level of the individual channel to the main mix.

- **PEAK LED:** Illuminates when the input signal is too high, indicating potential clipping. Reduce the GAIN control if this LED lights up frequently.

Stereo Channels (5/6, 7/8, 9/10)

- **STEREO INPUT:** 1/4" TRS inputs for channels 5/6, 7/8, 9/10. Channels 7/8 and 9/10 also include RCA inputs.

- **GAIN:** Adjusts the input sensitivity for the stereo line source.

- **EQ (High, Low):** 2-band equalizer for shaping the tone of the stereo input signal.

- **AUX/FX POST:** Sends a portion of the channel signal to the internal effects processor or external AUX output.

- **BAL (Balance):** Adjusts the balance between the left and right signals of the stereo channel.

- **LEVEL:** The main fader for controlling the output level of the stereo channel to the main mix.

- **PEAK LED:** Illuminates when the input signal is too high.

Phantom Power (+48V)

The F-10XR provides +48V phantom power for condenser microphones on channels 1-4. Engage the **PHANTOM POWER +48V CH1/4** switch to activate. Ensure all condenser microphones are connected before engaging phantom power, and disconnect them after disengaging to prevent damage.

PRO DSP FX (Internal Effects)

The mixer includes a 24-bit internal effects processor with 16 studio-quality presets. To use the effects:

1. **Select Effect:** Rotate the **ROTATE TO SEL** knob to choose one of the 16 effects. The selected effect number will be displayed.

   PRO DSP FX Presets

No.	Effect	No.	Effect
01	Small Hall	09	Analog Delay
02	Large Hall	10	Chorus Verb

No.	Effect	No.	Effect
03	Small Room	11	Stereo Chorus
04	Bright Room	12	Flanger
05	Thin Plate	13	Phaser
06	Plate	14	Gated Reverb
07	Spring Reverb	15	Flanger Verb
08	Multitap Delay	16	Vocal Echo

2. **Apply Effect:** Use the **AUX/FX POST** knobs on individual channels to send signal to the effects processor.

3. **FX MASTER:** Controls the overall level of the effects sent to the main mix.

4. **FX RETURN:** Controls the level of the processed effect signal returning to the main mix.

5. **FX MUTE:** Mutes the effects output.

USB Recording and Playback

The F-10XR features a built-in USB audio interface for stereo recording and playback with a computer or compatible iOS device.

- **Recording:** Connect the mixer to your computer via USB. The mixer will appear as an audio input device. Select it in your Digital Audio Workstation (DAW) software to record the stereo main mix.

- **Playback:** Audio played from your computer can be routed back to the mixer via USB. The **IN USB IN 9/10** switch routes the USB playback to stereo channel 9/10, allowing you to mix it with other inputs.

Output Section

- **MAIN MIX:** The master fader controls the overall output level of the main stereo mix.

- **OUTPUT LEVEL Meter:** LED meters display the output level of the main mix. Aim for levels that are strong but do not consistently peak into the red.

- **CTRL ROOM LEVEL:** Adjusts the volume for the Control Room outputs.

- **PHONES LEVEL:** Adjusts the volume for the Headphones output.

- **FOOT SWITCH:** Input for an optional footswitch to control certain functions (e.g., FX Mute).

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the mixer's surface. Do not use abrasive cleaners, solvents, or waxes.

- **Dust:** Regularly remove dust from the ventilation openings using a soft brush or compressed air.

- **Knobs and Faders:** Avoid applying excessive force to knobs and faders. If they become stiff or noisy, consult a qualified technician.

- **Storage:** When not in use for extended periods, store the mixer in a cool, dry place, away from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No sound output	Power off; cables disconnected; master fader down; channel fader down; incorrect input/output routing.	Check power, all cable connections, MAIN MIX fader, individual channel LEVEL faders, and correct input/output selection.
Distorted sound	Input GAIN too high; output levels too high; faulty cable.	Reduce input GAIN (ensure PEAK LED does not light up); lower MAIN MIX or channel LEVEL faders; try a different cable.
No phantom power	+48V switch not engaged; faulty microphone or cable.	Engage the PHANTOM POWER +48V CH1/4 switch; test with a different microphone or cable.
Effects not working	FX MASTER or FX RETURN down; AUX/FX POST on channel down; FX MUTE engaged.	Increase FX MASTER and FX RETURN levels; increase AUX/FX POST on desired channels; disengage FX MUTE.
USB recording/playback issues	Incorrect USB connection; driver issues (Windows); incorrect audio settings in DAW.	Ensure USB cable is securely connected; check computer's audio device settings; verify DAW input/output selection.

Specifications

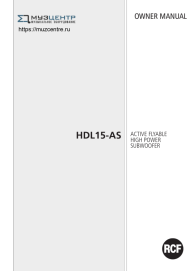| Feature	Detail
Model Number	F10XR
Number of Channels	10
Microphone Inputs	4 (XLR, with +48V Phantom Power)
Line Inputs	2 Mono (1/4" TRS), 4 Stereo (1/4" TRS, 7/8 & 9/10 also RCA)
EQ (Mono Channels)	3-band (High, Mid, Low)
EQ (Stereo Channels)	2-band (High, Low)
Compressors	2 (Single-knob, on channels 1 & 2)
Internal Effects	PRO DSP FX with 16 presets (24-bit)
USB Audio Interface	Stereo Recording and Playback (USB 2.0 Type B)
Main Outputs	1 Stereo (XLR + TRS)
Control Room Output	Yes (TRS)
Headphone Output	Yes (TRS)
AUX Output	1 (TRS)
Item Weight	8.25 pounds (3.75 Kilograms)
Product Dimensions	10.83 x 11.57 x 3.23 inches
Power Source	Corded Electric

Warranty and Support

For detailed warranty information, please refer to the warranty card included with your purchase or visit the official

RCF website. For technical support, product registration, or service inquiries, please contact RCF customer support directly through their official channels.

RCF Official Website: www.rcf.it

Related Documents - F10XR

	[RCF F 12XR 12-Channel Mixing Console: Technical Specifications & Features](#) Explore the RCF F 12XR, a versatile 12-channel analog mixing console featuring built-in PRO DSP FX and a USB audio interface for stereo recording and playback. Discover its detailed technical specifications, features, and accessories for professional audio applications.
	[RCF F 16XR Owner Manual: High-Performance Compact Live Mixer](#) Discover the RCF F 16XR, a versatile professional compact live mixer. This owner's manual details its features, functions, and specifications for optimal audio processing, offering clear sound and robust performance.
	[RCF F 6X Mixing Console Owner's Manual](#) Comprehensive owner's manual for the RCF F 6X high-performance professional compact live mixer, detailing its features, functions, specifications, and suggested configurations.
	[RCF M 18 Digital Mixer Owner's Manual](#) User manual for the RCF M 18 Digital Mixer, detailing features, setup, safety, and technical specifications for musicians. Available in multiple languages.

[RCF M 18 Digital Mixer Reference Guide](#)
Comprehensive reference guide for the RCF M 18 Digital Mixer, detailing features, setup, operation, firmware updates, network connectivity, and technical specifications for musicians and audio professionals.

[RCF HDL15-AS Active Flyable High Power Subwoofer Owner Manual](#)
This owner's manual provides detailed information for the RCF HDL15-AS Active Flyable High Power Subwoofer. It covers safety precautions, product features, technical specifications, installation, rigging, and array design for professional audio and touring applications.