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TAKSTAR
XR-210FX
Analog
Mixer

TAKSTAR XR-210FX Analog Mixer User Manual

Contents

TAKSTAR®

TAKSTAR XR-210FX Analog Mixer

Specifications

- Mixer Model: XR-210FX
- Analog Mixer
- USB OTG: 7448V+2
- DSP: 9924BIT
- Sampling Rate: 48kHz
- Input Impedance: 100k ohms (TRS phone)
- Output Impedance: 100 ohms

Important Safety Instructions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

- This symbol, wherever used, alerts you to the presence of un-insulated and dangerous voltages within the product enclosure. These are voltages that may be sufficient to constitute the risk of electric shock or death.

- This symbol, wherever used, alerts you to important operating and maintenance instructions. Please read.

- Protective Ground Terminal

- $\sim$ AC mains (Alternating Current)

- **Danger:** Live Terminals

- **ON:** Denotes the product is turned on.

- **OFF:** Denotes the product is turned off.
- **WARNING**

  Describes precautions that should be observed to prevent the possibility of death or injury to the user,

- **CAUTION**

  Describes precautions that should be observed to prevent damage to the product.

  Disposing of this product should not be placed in municipal waste but rather in a separate collection.

WARNING

Power Supply
Ensure that the source voltage voltage (AC outlet) matches the voltage rating of the product. Failure to do so could result in damage to the product and possibly the user. Unplug the product before electrical storms occur and when unused for long periods of time to reduce the risk of electric shock or fire.

External Connection
Always use proper ready-made insulated mains cabling (power cord). Failure to do so could result in shock/death or fire. If in doubt, seek advice from a registered electrician.

Do Not Remove Any Covers
Within the product are areas where high voltages may present. To reduce the risk of electric shock do not remove any covers unless the AC mains power cord is removed. Covers should be removed by qualified service personnel only.

No user serviceable parts inside.

Fuse
To prevent fire and damage to the product, use only the recommended fuse type as indicated in this manual. Do not short-circuit the fuse holder. Before replacing the fuse, make sure that the product is OFF and disconnected from the AC outlet.

Protective Ground

- Before turning the unit ON, make sure that it is connected to Ground. This is to prevent the risk of electric shock.
- Never cut internal or external Ground wires. Like wise, never remove Ground wiring from the Protective Ground Terminal.

Operating Conditions

- Always install in accordance with the manufacturers instructions.
- To avoid the risk of electric shock and damage, do not subject this product to any liquid/rain or moisture.
- Do not use this product when in close proximity to water.
- Do not install this product near any direct heat source.
- Do not block areas of ventilation. Failure to do so could result in fire.
- Keep product away from naked flames.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions
- Follow all instructions
- Keep these instructions. Do not discard.
- Heed all warnings.
- Only use attachments/ accessories specified by the manufacturer.

Power Cord and Plug

- Do not tamper with the power cord or plug. These are designed for your safety.
- Do not remove Ground connections!
- If the plug does not fit your AC out let seek advice from a qualified electrician.
- Protect the power cord and plug from any physical stress to avoid risk of electric shock.
- Do not place heavy objects on the power cord. This could cause electric shock or fire.

Cleaning

- When required, either blow off dust from the product or use a dry cloth.
- Do not use any solvents such as Benzol or Alcohol.
- For safety, keep product clean and free from dust.

Servicing

- Refer all servicing to qualified service personnel only.
- Do not perform any servicing other than those instructions contained within the User's Manual.

PORTABLE CART WARNING
Carts and stands – The component should be used only with a cart or stand that is recommended by the manufacturer. A component and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the component and cart combination to overturn.

Preface

Dear Customer,
Thank you for purchasing our product. Read this manual thoroughly to use the product properly. If you have any questions or suggestions, please contact our local sales service.

Features

- 7 input channels, 4 of which are XLR mic inputs with 48V phantom power + 2 stereo line inputs.
- USB OTG interface for computer power supply and connectivity as a USB audio interface.
- One set of monitor speaker outputs, one headphone monitoring output.
- Built-in 99-preset 24-bit DSP effects processor with digital display.
- 3- band parametric EQ for channels 1-3.
- 4- segment output level meter for monitoring.

- Supports wireless/USB playback, with USB drive recording up to 24-bit/48kHz.
- 45mm high-precision faders.

Application
For livestreaming, home studios, home theater, karaoke, mobile music, music production, recording, rehearsals, and live performances.
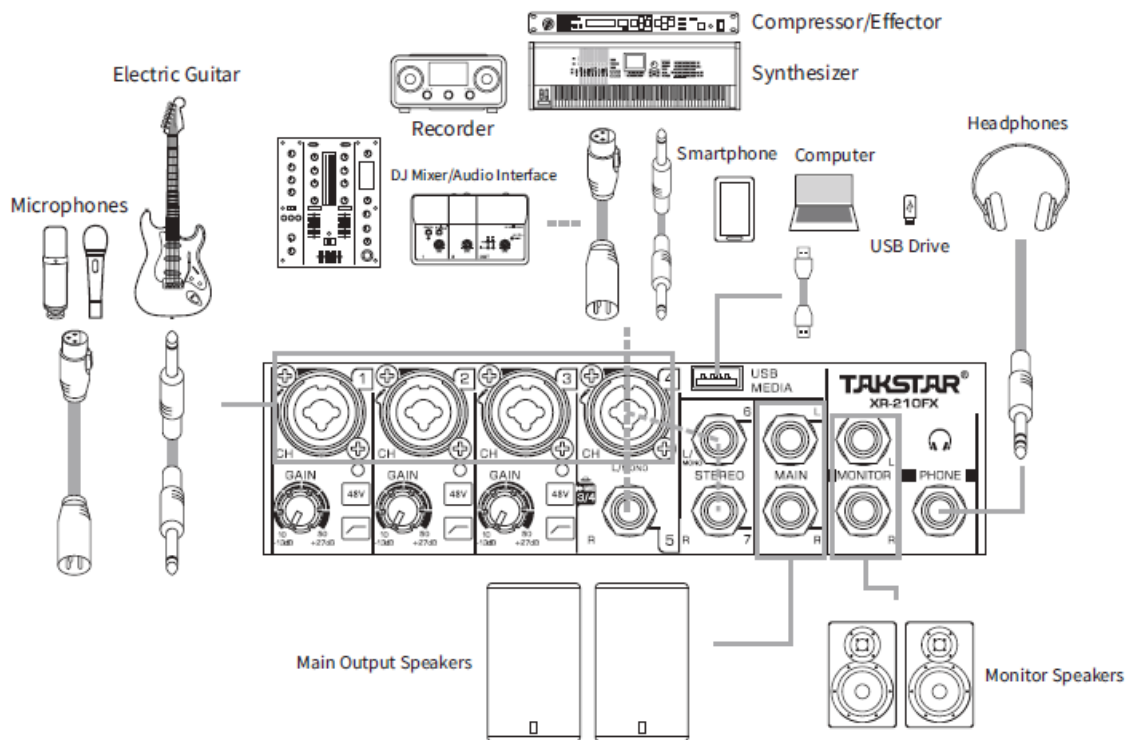
Specifications

0 dBu=0.775 Vrms, 0 dBV=1 Vrms

All faders set to nominal position (10 dB below maximum); signal generator output impedance 100 ohms, input impedance 100k ohms (TRS phone outputs).
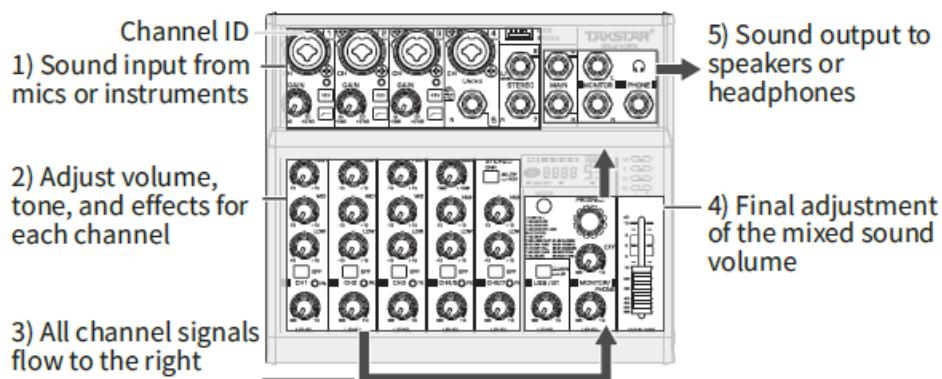
		OUTPUT	CHANNEL		STEREO
	INPUT		MIC	LINE	LINE
GAIN (0dBu)	GAIN	0dB IN	10dB~50dB	−13dB~27dB	−18dB~18dB
	PHONES OUT	MAX (POST)	68	45	62
		MAX (ALL MAX)	72	52	60
		0dB (GAIN Control at 0dB)	0	0	0
	STEREO OUT	MAX (ALL MAX)	62	41	50
		0dB (GAIN Control at 0dB)	0	0	0
CMRR		0dB (GAIN Control at 0dB)	78	–	–
THD 0dB		STEREO OUT (GAIN Control at 0dB)	0.01%	0.01%	0.01%
		PHONES OUT (GAIN Control at 0dB)	0.01%	0.01%	0.01%
Signal to Noise Ratio 0dB		STEREO OUT	88	78	76
		PHONES OUT	87	76	75
Noise (Control at MIN)		PHONES OUT (Control at 0dB)	−85		
		STEREO OUT (Control at 0dB)	−86		
		STEREO OUT (Control at MIN)	−98		
LOW CUT			100Hz		
ENI			−124dB		

Function Overview

Connection Examples

Basic Operation: Signal Flow

Channel ID
1) Sound input from mics or instruments
2) Adjust volume, tone, and effects for each channel
3) All channel signals flow to the right
4) Final adjustment of the mixed sound volume
5) Sound output to speakers or headphones
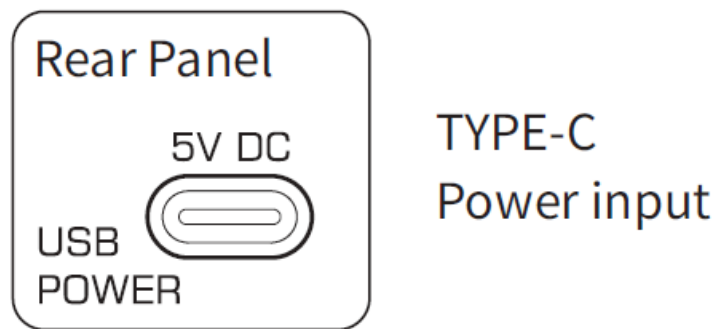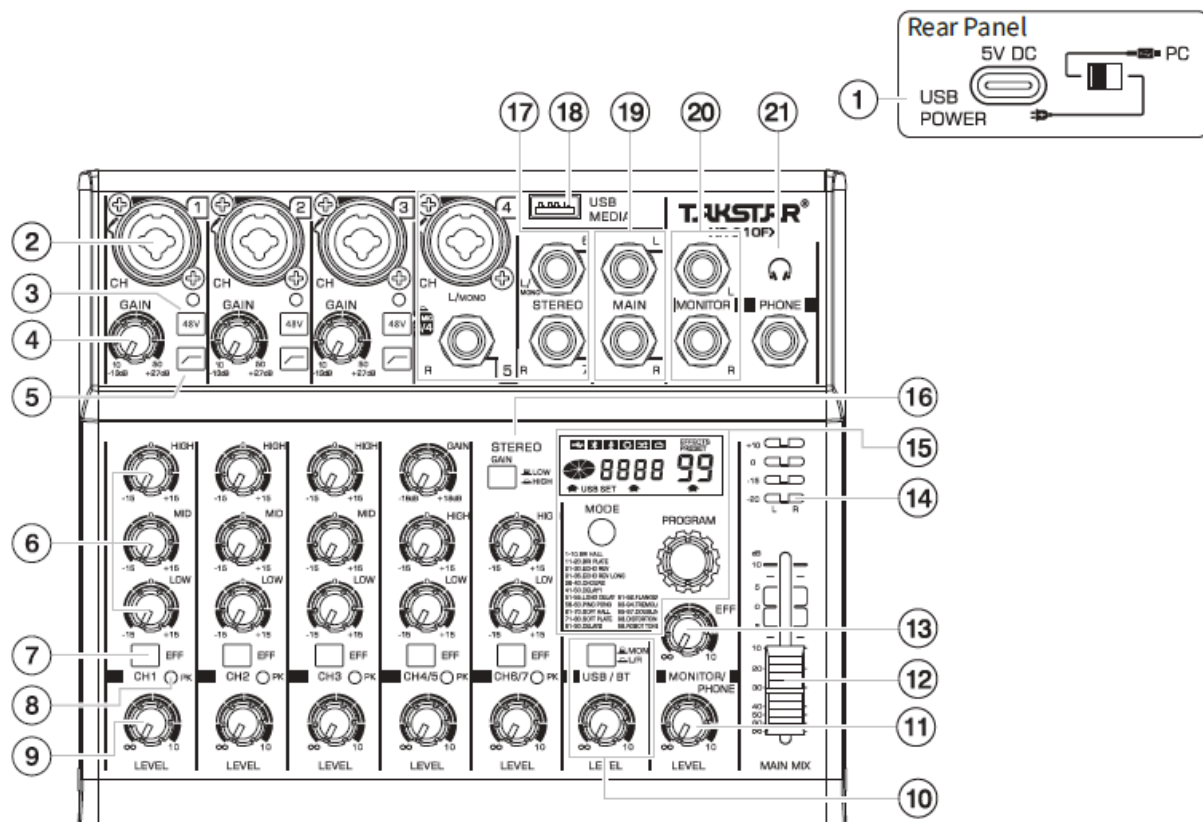
Note: If using a condenser mic, turn on ▬ the [+48V] phantom power switch.

Basic Operation: Power Connection

1. Ensure all switches on the device are turned off and the Type-C data cable is not inserted on the rear panel.
2. Connect the included Type-C data cable:
   - Align Type-C data cable plug with the interface on rear panel and insert it.
   - Connect Type-C data cable to a USB power adapter.
   - Plug power adapter into a standard [~AC 100-240 50Hz/60Hz] power outlet.

Rear Panel

5V DC

USB POWER

TYPE-C Power input

Control and Functions

PC/DC Switch Switch between different connection modes.
When connecting to a computer, switch to PC to enable signal transfer between the mixer and computer.

1. **TYPE-C Power Input**

   Used to connect the included USB power adapter and Type-C data cable to power the mixer.

   Note:

   Please carefully read the safety precautions for the USB power adapter and Type-C data cable you are using.

   USB power adapter and Type-C data cable specs:

   Output voltage: 4.8V to 5.2V

   Output current: 3A or higher

2. **MIC/LINE Input Jack**

   Used to connect mics, instruments, or external audio devices. The multi-function jack supports both XLR and

   TRS-type plugs.

3. **PHANTOM Power Switch / [+48V] LED**

   When this switch is turned on ▬ , the [+48V] LED will light up, and 48V phantom power will be supplied to the plugs on the input jacks. Turn on this switch when using condenser mics that require phantom power.

   Note:

   If you do not need phantom power, be sure to keep this switch turned off ▬ . When it is turned on ▬, to prevent noise and damage to the mixer and connected devices, please observe the following important precautions:

   1. When connecting devices that do not support phantom power to the channels, ensure this switch is kept in the off position .

   2. When connecting/disconnecting cables from the channels, ensure the switch is turned off ▬ .

   Before turning the switch on ▬ /off ▬ , lower the channel faders all the way down.

4. **GAIN Knob**

   This GAIN knob is used to adjust the sensitivity of the mic and line-level input signals. This allows the incoming signals to be regulated to the ideal internal control level.

5. **LOW CUT Switch (High-Pass Filter)**

   The mic input channels have a low cut switch (commonly called a high-pass filter), which can attenuate low frequencies below 100Hz by 12dB.

   By adding the low cut function, you can safely use low-band EQ on vocals. In many cases, applying low-band EQ can indeed benefit the sound. But the problem is that adding low EQ also increases stage rumble, mic handling noise, and breathing sounds – this is where you can use the low cut to remove all those issues.

   You can also add low EQ without using a subwoofer, increasing the flexibility of live performances.

6. **EQ Knobs**

   Use the [HIGH] (high-frequency) and [LOW] (low-frequency) knobs to adjust the tone.

   If no tonal adjustment is needed, set the knobs to the "0" (flat) position.

7. **EFFECT Button**

   These buttons can activate effects on the channel, adding natural spatial ambience to the sound.

   The default setting is with reverb turned off.

8. **PEAK LED**

   This LED will light up when the input signal level is too high. If it lights up, turn the [GAIN] knob ④ to the left to reduce the volume.

9. **LEVEL Knob**

   Used to adjust the channel signal level.

   Note: To reduce noise, turn the volume of unused channels all the way down.

10. **USB/BT LEVEL Knob**

    Used to adjust the level of the USB/BT channel signal.

11. **[MON and L/R] Toggle Switch**

    Used to route the USB/BT channel signal to the L/R main channel outputs.

12. **PHONE Headphone/Monitor Knob**

Used to adjust the volume of the headphones or monitor speakers connected to the [PHONE] output jack.

13. **MAIN MIX Fader**

Used to adjust the signal level output to the [MAIN OUT] jack.

14. **EFFECT Level Knob**

Used to adjust the effect level sent from the internal effector to the main bus.
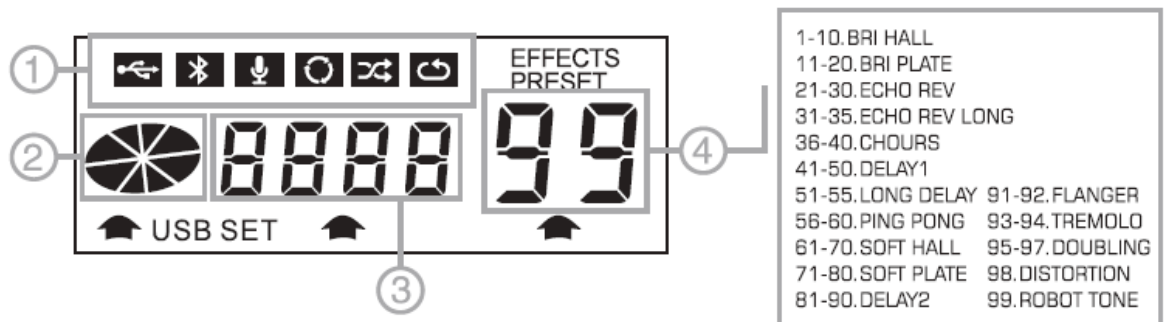
15. **Level Meter LED**

The L and R meters display the output signal level from the [MAIN OUT] jack in 4 levels: +10, 0, -15 and -20 dB.

If the PEAK LED is continuously lit red, lower the [MAIN MIX] fader to reduce the volume.

16. **Display/MODE Button/PROGRAM Knob**

- **Display**
    1. Function display
    2. Operating status or Bluetooth connection status
    3. Track time display/Track number display
    4. Effect display (refer to the effect table on the right)

1-10. BRI HALL
11-20. BRI PLATE
21-30. ECHO REV
31-35. ECHO REV LONG
36-40. CHOURS
41-50. DELAY1
51-55. LONG DELAY   91-92. FLANGER
56-60. PING PONG   93-94. TREMOLO
61-70. SOFT HALL   95-97. DOUBLING
71-80. SOFT PLATE   98. DISTORTION
81-90. DELAY2   99. ROBOT TONE
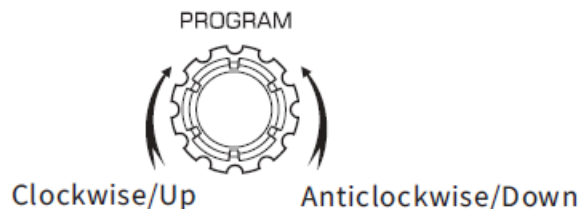
- **MODE Button**

    Used to switch between
    1. Function,
    2. Playback, and
    3. Effects.

- PROGRAM Encoder

    Used for:
    1. Function selection
    2. Play/pause/select track
    3. Effect type selection

PROGRAM

Clockwise/Up   Anticlockwise/Down

Rotate to select, press to confirm current selection.

17. **GAIN Switch**

The stereo input has a GAIN switch to configure the signal level. This switch allows you to toggle between +4 dBu (High) and -10 dBV (LOW).

18. **LINE Stereo Input Jack**

For connecting line-level devices such as electronic keyboards or audio equipment. Use the [L/MONO] jack on

the channel to connect mono output instruments.

In this case, the sound input to the [L/MONO] jack will be output from both the left and right channels of the mixer.

19. **USB Interface**

For connecting a USB flash drive and computer (supports computer recording).

Supported formats: MP3 or WAV/WVMA/FLAC, or as a USB audio device.

20. **MAIN OUT**

These are TRS output jacks for the mixed stereo signal. The signal from these jacks is controlled by the L/R main fader. These jacks can be connected to a power amplifier driving the main speakers.

21. **MONITOR Output**

These are balanced 1/4″ TRS output jacks for connecting to a monitor system.

22. **PHONES Headphone Jack**

For connecting headphones. This jack supports stereo phone-type plugs.

To connect a headset or earphones with a mini plug, use an [adapter] for the connection.

Operation Controls

- MODE Button – Short Press: Select the operation function of the encoder, switching between mode selection, playback control, and effect type selection, with a white arrow indicating the corresponding function.
- MODE Button – Long Press:
    1. In recording mode, when recording is stopped, can start playback of recorded files.
    2. In non-recording mode, can quickly start playback of recorded files.
- PROGRAM Button (Encoder Button) – Short Press
    1. White arrow is on the left (mode selection) and the mode icon is flashing: confirm and switch to the currently flashing mode.
    2. White arrow is in the middle (playback control): play or pause media (including playback and recording).
    3. White arrow is in the middle (playback control), after rotating encoder to preview track selection: confirm playing current selected song.
- PROGRAM Button (Encoder Button) – Long Press
    1. White arrow is in the middle (playback control): stop media (including playback and recording).
    2. White arrow is in the middle (playback control) and recording has stopped: start playing recorded files.
    3. White arrow is in the middle (playback control) and in Bluetooth mode: disconnect current Bluetooth connection.
- PROGRAM Encoder – Rotate
    1. White arrow is on the left (mode selection): rotate to preview modes: USB drive/sound card, Bluetooth, recording, sequential playback, random playback, single-track loop (short press [PROGRAM] button to confirm switching).
    2. White arrow is in the middle (playback control), during USB or SD card playback: rotate to preview tracks to play.
    3. White arrow is in the middle (playback control), during Bluetooth, sound card, or recorded file playback: rotate to switch to previous/next track.
    4. White arrow is on the right (effect type selection): rotate to switch effect type.
- When playing recorded files from a USB drive, the icons for both the USB drive and recording will be displayed to indicate this.

Safety Warnings

To avoid electric shock, overheat, fire, radiation, explosion, mechanical risk and injury or property loss due to improper use, please read and observe the following items before use:

1. Please check if the power of the connected equipment matches with that of this product before operation. Adjust the volume to proper level during operation. Do not operate at over-power or high-volume level for extended time to avoid product malfunction.

2. If there is any abnormality during use (e.g., smoke, strange odor), please kill the power switch and unplug from power source, then send the product to the local after-sales service for repair.

3. Keep this product and its accessories in a dry and ventilated area. Do not store in a humid or dusty area for extended time. Keep away from fire, rain, liquid intrusion, bumping, throwing, vibrating, or from blocking any ventilation openings, to prevent malfunction.

4. The product must, when installed on walls or ceilings, be fixed firmly in place at adequate strength to prevent from falling.

5. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.

6. Do not disassemble or repair the product by yourself to avoid injury. If you have any questions or require any services, please contact our local after-sales service.

7. Product suitability for elevation and climate depends on the adapter. The adapter symbols indicate:

- Only suitable for use in areas below 2000 meters
- Only suitable for use in non-tropical climates

About This Manual

This manual contains up-to-date technical specifications as of printing. However, specifications contained herein may not conform to your particular product since Takstar is constantly improving its products. Also, specifications, devices or accessories available may vary from region to region. If you have any questions, please contact our local sales outlet. For the latest version/more information, please visit our website: **https://www.takstar.com/**
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Frequently Asked Questions

- **Can I use this mixer for live performances?**
    - Yes, this mixer is suitable for live performances as well as various other applications such as home studios, recording, and rehearsals.
- **How do I connect external audio devices to this mixer?**
    - You can use the MIC/LINE input jack that supports both XLR and TRS-type plugs to connect mics, instruments, or external audio devices.

Documents / Resources

	TAKSTAR XR-210FX Analog Mixer [pdf] User Manual XR-210FX, 400, 6828, 333, XR-210FX Analog Mixer, XR-210FX, Analog Mixer, Mixer

References

- **User Manual**