

JBSYSTEMS B4.2

JB-systems B4.2 Mediamix Media Player/Mixer User Manual

Model: B4.2 | Brand: JBSYSTEMS

1. INTRODUCTION

The JB-systems B4.2 Mediamix is a versatile media player and mixer designed for professional audio applications. It integrates a media player capable of reading USB drives and SD cards, an FM radio tuner, and a Bluetooth receiver, all within a compact 1U rack-mountable chassis. This manual provides detailed instructions for the safe and efficient operation of your B4.2 Mediamix unit.

2. IMPORTANT SAFETY INSTRUCTIONS

- **Power Supply:** Ensure the unit is connected to a power supply within the specified voltage range (230 Volt AC). Always use the provided power cable.
- **Ventilation:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions to prevent overheating.
- **Water and Moisture:** Do not expose this apparatus to rain or moisture. Do not use near water or in damp environments.
- **Cleaning:** Clean only with a dry cloth. Disconnect from power before cleaning.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel. Opening the unit may expose you to dangerous voltages or other hazards.
- **Placement:** Place the unit on a stable, level surface or mount it securely in a 19-inch rack. Avoid placing it near heat sources or in direct sunlight.

3. PACKAGE CONTENTS

Carefully unpack your B4.2 Mediamix and check that all items listed below are present and in good condition. If any items are missing or damaged, contact your dealer immediately.

- JB-systems B4.2 Mediamix unit
- AC Power Cable
- FM Antenna
- Bluetooth Antenna
- Remote Control (IRC-A)

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Figure 4.1: Front view of the B4.2 Mediamix. This image shows the entire front panel, including microphone inputs, EQ controls, media player section, display, master output controls, and headphone jack.

4.1. Detailed Controls

- **MIC Input (1/4" Jack):** Connect a microphone here.
- **MIC Level:** Adjusts the input level of the microphone.
- **MIC EQ (High/Low):** Tone controls for the microphone input.
- **AUX LINE Input (1/8" Jack):** Auxiliary stereo input for external devices.
- **LINE 1/2 Level:** Adjusts the input level for Line 1 and Line 2.
- **USB/SD Player:** Slot for USB drives and SD cards.
- **Display:** Shows current mode, track information, FM frequency, or Bluetooth status.
- **SOURCE Button:** Selects input source (USB, SD, FM, Bluetooth, Line 1, Line 2).
- **MODE Button:** Changes playback mode (e.g., repeat, random).
- **SEQ Buttons:** Navigation and playback controls for media player (Play/Pause, Next/Previous).
- **MASTER 1/2 Level:** Controls the overall output level for Master 1 and Master 2.
- **MASTER EQ (High/Low):** Tone controls for the master output.
- **CUE Volume:** Adjusts the volume for the headphone output.
- **PHONES (1/4" Jack):** Headphone output for monitoring.
- **POWER LED:** Indicates the unit's power status.
- **LEVEL Meters:** Visual indication of output signal levels.



Figure 4.2: Left side of the front panel. This close-up highlights the microphone input, its level control, and the high/low EQ knobs.



Figure 4.3: Center section of the front panel. This image details the USB and SD card slots, the digital display, and the media player control buttons including Source, Mode, and navigation.



Figure 4.4: Right side of the front panel. This close-up shows the Master 1 and Master 2 level controls, master EQ, cue volume, headphone output, and the power level meters.

5. REAR PANEL CONNECTIONS

The rear panel houses all the input and output connections for integrating the B4.2 Mediamix into your audio system.



Figure 5.1: Rear view of the B4.2 Mediamix. This image displays the AC mains input, Master 1 and Master 2 outputs (both balanced and unbalanced), REC output, Line 1 and Line 2 inputs, a dedicated microphone input, emergency input, external mute terminals, and antenna connections for FM and Bluetooth.

5.1. Detailed Connections

- **AC MAINS Input:** Power connection for the unit.
- **MASTER 1/2 Outputs (Balanced XLR & Unbalanced RCA):** Main audio outputs to connect to amplifiers or powered speakers.
- **REC Output (RCA):** Stereo output for connecting to a recording device.
- **LINE 1/2 Inputs (RCA):** Stereo inputs for connecting external audio sources like CD players or other mixers.
- **MIC Input (XLR):** Balanced microphone input.
- **EMERGENCY INPUT (Terminal Block):** For integration with emergency announcement systems.

- **EXTERNAL MUTE (Terminal Block):** For remote muting of the unit.
- **FM ANTENNA Connector:** For connecting the supplied FM antenna.
- **BLUETOOTH ANTENNA Connector:** For connecting the supplied Bluetooth antenna.

6. SETUP AND INSTALLATION

6.1. Rack Mounting

The B4.2 Mediamix is designed for standard 19-inch rack mounting. Secure the unit using appropriate rack screws through the mounting ears on both sides of the front panel. Ensure adequate ventilation around the unit.

6.2. Power Connection

1. Ensure the unit's power switch is in the OFF position.
2. Connect the supplied AC power cable to the AC MAINS input on the rear panel.
3. Plug the other end of the power cable into a suitable 230 Volt AC power outlet.

6.3. Audio Connections

1. **Input Sources:** Connect your external audio sources (e.g., CD players, laptops) to the LINE 1 or LINE 2 RCA inputs on the rear panel. For microphones, use either the front panel 1/4" jack or the rear panel XLR input.
2. **Outputs:** Connect the MASTER 1 and/or MASTER 2 outputs (XLR for balanced, RCA for unbalanced) to your amplifier, powered speakers, or main sound system. Use the REC output for connecting to a recording device.

6.4. Antenna Connections

1. Screw the supplied FM antenna to the FM ANTENNA connector on the rear panel. Extend the antenna for optimal reception.
2. Screw the supplied Bluetooth antenna to the BLUETOOTH ANTENNA connector on the rear panel.

7. OPERATING INSTRUCTIONS

7.1. Powering On/Off

Press the power button on the front panel to turn the unit ON or OFF. The POWER LED will illuminate when the unit is on.

7.2. Media Player (USB/SD)

1. Insert a USB drive into the USB slot or an SD card into the SD card slot on the front panel.
2. Press the **SOURCE** button until 'USB' or 'SD' is displayed.
3. The unit will automatically begin playing compatible audio files.
4. Use the **SEQ** buttons (Play/Pause, Next/Previous) to control playback.
5. Press the **MODE** button to cycle through playback modes (e.g., repeat one, repeat all, random).

7.3. Bluetooth Operation

1. Press the **SOURCE** button until 'BT' (Bluetooth) is displayed. The unit will enter pairing mode, indicated by a flashing 'BT' on the display.

2. On your Bluetooth-enabled device (smartphone, tablet), search for available Bluetooth devices.
3. Select 'B4.2 Mediamix' from the list to pair. Once paired, the 'BT' indicator will become solid.
4. You can now play audio from your device through the B4.2 Mediamix.

7.4. FM Radio

1. Press the **SOURCE** button until 'FM' is displayed.
2. Use the **SEQ** buttons to manually tune to a station or press and hold to auto-scan for stations.
3. Stations can be saved as presets using the remote control.

7.5. Microphone Input

1. Connect your microphone to either the front or rear MIC input.
2. Adjust the **MIC Level** knob on the front panel to achieve the desired volume.
3. Use the **MIC EQ** (High/Low) knobs to adjust the tone of the microphone.

7.6. Mixer Functions

1. Adjust the individual **LEVEL** knobs for Line 1, Line 2, and the media player to balance the input sources.
2. Use the **MASTER 1** and **MASTER 2 Level** knobs to control the overall output volume.
3. The **MASTER EQ** (High/Low) allows for overall tone adjustment of the main mix.
4. Connect headphones to the **PHONES** jack and adjust the **CUE Volume** for monitoring.

7.7. Remote Control (IRC-A)

The included remote control provides convenient access to media player and FM radio functions.

IRC-A

MEDIA PLAYER TRANSPORT CONTROL



FM
7

FM
8

FM
9

FM
4

FM
5

FM
6

FM
1

FM
2

FM
3

RADIO TUNER PRESETS

MEDIA



RADIO

SOURCE



VOLUME



**RADIO TUNER
AND MEDIA PLAYER
REMOTE CONTROL**

Figure 7.1: IRC-A Remote Control. This image displays the remote control unit with buttons for media player transport (play, pause, skip), FM radio presets (1-9), source selection, and volume adjustment.

- **Media Player Transport Control:** Play, Pause, Next Track, Previous Track.
- **FM Radio Presets (1-9):** Directly select saved FM stations.
- **MEDIA / RADIO Buttons:** Navigate between media player and radio modes.
- **SOURCE Button:** Cycles through input sources.
- **VOLUME Up/Down:** Adjusts the master output volume.

8. MAINTENANCE

- **Cleaning:** Regularly wipe the unit with a soft, dry cloth. Do not use abrasive cleaners, solvents, or chemical sprays.
- **Ventilation:** Ensure that the ventilation openings are free from dust and debris to maintain proper airflow.
- **Storage:** If storing the unit for an extended period, disconnect it from power and store it in a cool, dry place, away from direct sunlight and extreme temperatures.

9. TROUBLESHOOTING GUIDE

- **No Power:**
 - Check if the power cable is securely connected to the unit and the power outlet.
 - Ensure the power outlet is functional.
 - Verify the power switch on the front panel is in the ON position.
- **No Sound Output:**
 - Check all audio cable connections to and from the unit.
 - Ensure the correct input source is selected using the **SOURCE** button.
 - Verify that the **MASTER Level** knobs are turned up.
 - Check the volume levels on your connected amplifier or powered speakers.
 - If using a microphone, ensure its **Level** knob is turned up.
- **Bluetooth Not Connecting:**
 - Ensure the B4.2 Mediamix is in Bluetooth mode ('BT' flashing on display).
 - Make sure Bluetooth is enabled on your transmitting device.
 - Move your device closer to the B4.2 Mediamix.
 - Try unpairing and re-pairing the device.
- **USB/SD Media Not Playing:**
 - Ensure the USB drive or SD card is inserted correctly.
 - Verify that the files are in a supported audio format (e.g., MP3, WAV).
 - Check if the media is corrupted or empty.
 - Ensure 'USB' or 'SD' is selected as the source.

10. TECHNICAL SPECIFICATIONS

- **Model:** B4.2 Mediamix

- **Brand:** JBSYSTEMS
- **Product Dimensions:** 5199.99 x 2500 x 950 cm (Note: These dimensions appear unusually large and may represent packaging or an error in source data. Refer to product packaging for accurate dimensions.)
- **Manufacturer Reference:** 001BE/8400
- **Power Source:** Corded Electric
- **Voltage:** 230 Volt
- **Connectivity Technology:** Bluetooth
- **First Available Date:** January 15, 2020

11. WARRANTY AND SUPPORT

This product is covered by a manufacturer's warranty. Please refer to the warranty card included with your product or contact your local dealer for specific warranty terms and conditions. For technical support or service inquiries, please contact your authorized JBSYSTEMS dealer or distributor.

Documents - JBSYSTEMS – B4.2



[\[pdf\]](#) User Manual Catalog

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