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FBT J 8A

FBT J 8A Active Portable Audio Monitor User Manual

Model: J 8A

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your FBT J 8A Active Portable Audio Monitor. Please read this manual thoroughly before using the product to ensure proper setup, operation, and maintenance. Keep this manual for future reference.

2. SAFETY INFORMATION

Important Safety Instructions:

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.

- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- **CAUTION:** To prevent the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- **WARNING:** This apparatus must be earthed. Replace fuses with the same type and rating only.

3. PACKAGE CONTENTS

Upon unpacking your FBT J 8A monitor, please ensure all items are present and in good condition:

- FBT J 8A Active Portable Audio Monitor
- Power Cord
- Quick Start Guide

If any items are missing or damaged, please contact your dealer immediately.

4. PRODUCT OVERVIEW

The FBT J 8A is a professional 2-way bi-amplified active portable audio monitor designed for various sound reinforcement applications. It features a robust polypropylene cabinet and advanced Class D amplification for high efficiency and superior sound quality.

Key Features:

- 8-inch (200mm) custom ceramic woofer with high efficiency and excursion.
- 25mm (1-inch) compression driver.
- Class D amplifiers: 200W RMS for Low Frequency (LF) and 50W RMS for High Frequency (HF).
- Traditional power supply with very low noise.
- Digital Signal Processor (DSP) with 2 equalization presets (ORIGINAL/BOOST) for optimal tonal balance and dynamic protection.
- 90°H x 60°V constant directivity horn.
- Robust polypropylene cabinet with integrated handles.
- Two M6 anchoring points for versatile mounting.
- Hi-Pass filter button for use with a subwoofer.
- Control panel with XLR/Jack input, XLR link, Mic/Line switch, Level control.

Physical Components:



Figure 1: FBT J 8A Active Portable Audio Monitor, showing its compact design and potential for wall mounting.

The FBT J 8A monitor features a durable black polypropylene enclosure. Its compact design allows for easy portability and flexible installation options, including wall mounting using compatible brackets (not included).



Figure 2: Rear panel of the FBT J 8A monitor, detailing input/output connections, level controls, DSP presets, and power switch.

The rear panel provides all necessary connections and controls for the monitor. This includes audio inputs, a link output, level adjustments, DSP preset selection, and the main power switch.

5. SETUP

5.1 Placement and Mounting

The FBT J 8A can be used as a floor monitor, mounted on a speaker stand, or permanently installed using its M6 anchoring points. Ensure the monitor is placed on a stable, level surface or securely mounted to prevent accidental falls.

- For floor use, position the monitor to direct sound towards the desired listening area.
- For stand mounting, use a compatible speaker stand with a standard pole mount.
- For permanent installation, utilize the two M6 anchoring points. Consult a qualified installer for secure wall or ceiling mounting.

5.2 Connections

Before making any connections, ensure the monitor's power switch is in the OFF position and the power cord is disconnected from the mains supply.

1. **Audio Input:** Connect your audio source (mixer, instrument, microphone) to the XLR/Jack combo input on the rear panel.
2. **Link Output:** If connecting multiple monitors, use the XLR link output to send the audio signal to another active speaker.
3. **Power Connection:** Connect the supplied power cord to the AC inlet on the rear panel, then plug the other end into a suitable grounded AC power outlet (220-230V~ 50/60Hz).

Refer to Figure 2 for a visual guide to the rear panel connections.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

1. Ensure all audio connections are made and the Level control is set to minimum.
2. Flip the main power switch on the rear panel to the ON position. The power indicator LED will illuminate.
3. To power off, set the Level control to minimum, then flip the power switch to OFF.

6.2 Input Level and Mic/Line Switch

- **Mic/Line Switch:** Select the appropriate input sensitivity. Use "MIC" for microphones and "LINE" for line-level sources (mixers, instruments).
- **Level Control:** Adjust the overall volume of the monitor. Start with the control at minimum and gradually increase to the desired listening level.
- The PRT/LMT (Protection/Limit) LED indicates when the internal limiter is active, preventing distortion and protecting the speaker. If this LED flashes frequently, reduce the input level.

6.3 DSP Presets

The FBT J 8A features a Digital Signal Processor (DSP) with two selectable presets to optimize the sound for different applications:

- **ORIGINAL:** Provides a flat, neutral frequency response suitable for general-purpose sound reinforcement.
- **BOOST:** Enhances the low-frequency response, ideal for applications requiring more bass presence.

Select the desired preset using the dedicated switch on the rear panel.

6.4 Hi-Pass Filter

The Hi-Pass filter button activates a high-pass filter, which cuts low frequencies from the monitor's output. This is particularly useful when the J 8A is used in conjunction with a subwoofer, allowing the subwoofer to handle the lower frequencies and improving overall system clarity and efficiency.

7. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your FBT J 8A monitor.

- **Cleaning:** Clean the cabinet with a soft, dry cloth. Do not use abrasive cleaners, waxes, or solvents.
- **Ventilation:** Ensure that the ventilation openings are clear and not obstructed to prevent overheating.
- **Storage:** When not in use for extended periods, store the monitor in a dry, cool environment, protected from dust and extreme temperatures.
- **Inspection:** Periodically check the power cord and all cables for any signs of damage. Replace damaged cables

immediately.

There are no user-serviceable parts inside the monitor. Refer all servicing to qualified service personnel.

8. TROUBLESHOOTING

If you encounter issues with your FBT J 8A monitor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound	Power cord not connected or power switch off. Input cable faulty or disconnected. Level control set to minimum. Audio source not sending signal.	Check power connection and switch. Verify input cable connection and integrity. Increase Level control gradually. Check audio source and its output level.
Distorted sound	Input level too high (PRT/LMT LED flashing). Faulty cable. Incorrect DSP preset.	Reduce input level from source or monitor's Level control. Try a different cable. Switch DSP preset to "ORIGINAL" for a neutral response.
Hum or noise	Ground loop. Interference from other electronic devices. Faulty cable.	Ensure all equipment is properly grounded. Try connecting to a different power outlet. Move the monitor away from potential sources of interference. Replace cables.

If the problem persists after trying these solutions, contact qualified service personnel.

9. SPECIFICATIONS

Technical specifications for the FBT J 8A Active Portable Audio Monitor:

Feature	Specification
Configuration	2-way, Bi-amplified, Bass-Reflex
Built-in Amplifier LF/HF (RMS)	200W / 50W
Built-in Amplifier Peak LF/HF	400W / 100W
Frequency Response (-6dB)	60Hz - 20KHz
Low Frequency Woofer	8 inches (200mm) - 1.7 inch coil
High Frequency Driver	1 inch (25mm) - 1 inch coil
Maximum SPL (Cont/Peak)	120dB / 124dB

Feature	Specification
Dispersion (HxV)	90° x 60°
Input Impedance	22 Kohm
Crossover Frequency	2.5 KHz
AC Power Requirements	160 VA
Input Connector	XLR - Jack with loop
Power Cord Length	5 meters / 16.4 feet
Dimensions (LxWxH)	47.8 x 33.8 x 31.2 cm (approx. 18.8 x 13.3 x 12.3 inches)
Weight	8.2 kg (approx. 18.1 lbs)
Material	Polypropylene
Recommended Use	Professional use in indoor or outdoor events, public address systems, and musical performances.

10. WARRANTY AND SUPPORT

Warranty: The FBT J 8A Active Portable Audio Monitor comes with a Limited Warranty. Please refer to the warranty card included with your product or visit the official FBT website for detailed terms and conditions.

Support: For technical assistance, service, or spare parts, please contact your authorized FBT dealer or visit the official FBT website for support resources and contact information. Do not attempt to repair the unit yourself, as this may void your warranty and pose safety risks.