Wharfedale Pro Diamond Studio 7BT

Wharfedale Pro Diamond Studio 7BT Active Bluetooth Monitor User Manual

1. INTRODUCTION

The Wharfedale Pro Diamond Studio 7BT is a 150W active bi-amplified studio monitor designed for highly accurate audio reproduction. It features Bluetooth connectivity with True Wireless Stereo (TWS) technology, allowing for a precise and uncolored sound experience. This manual provides essential information for the proper setup, operation, and maintenance of your Diamond Studio 7BT monitors.

2. SAFETY INFORMATION

- **Power Source:** Connect the monitor only to the specified AC power options (100V-240V). Ensure the power cable is not damaged or pinched.

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

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

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

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

- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use caution when operating at high volumes.

3. PACKAGE CONTENTS

Please check the box for the following items:

- 1x Wharfedale Pro Diamond Studio 7BT 150W Active Bluetooth Monitor (Black)

- Power Cable

- User Manual (this document)

4. PRODUCT OVERVIEW

The Diamond Studio 7BT monitor is engineered to reveal every nuance of your audio mix with its honest and uncolored sound reproduction. It features a 6.5-inch fiberglass composite woofer for superb low-frequency dynamic response and a silk soft dome tweeter for clear high frequencies. The bi-amplified design ensures optimal power delivery to each driver.

Key Features:

- 6.5-inch Bi-amplified Active Studio Monitor
- Uncolored and Accurate Sound Reproduction
- Bluetooth Input with TWS (True Wireless Stereo) Linking
- Balanced Inputs: XLR and 6.3mm Combo Jack
- Woven Fiberglass Composite LF Cones

Product Views:

Two Wharfedale Pro Diamond Studio 7BT monitors stacked vertically, showcasing the front design with the golden woofer cone and black tweeter.

Close-up front view of a single Wharfedale Pro Diamond Studio 7BT monitor, highlighting the 6.5-inch golden fiberglass woofer, silk dome tweeter, and dual bass reflex ports.

Angled front-right view of a single Wharfedale Pro Diamond Studio 7BT monitor, showing the textured black cabinet finish and the speaker drivers.

Side-angled view of a single Wharfedale Pro Diamond Studio 7BT monitor with dimensions overlaid: 34cm height, 21cm width, and 26cm depth.

5. SETUP

5.1 Placement

Position your monitors to form an equilateral triangle with your listening position. Ensure they are at ear level and angled towards you for optimal stereo imaging. Avoid placing them directly against walls if possible, or use acoustic treatment to manage bass response.

5.2 Connections

The Diamond Studio 7BT offers versatile input options:

- **XLR Input:** For balanced audio connections from professional audio interfaces or mixers.
- **TRS Jack Input:** For balanced or unbalanced audio connections using a 6.3mm (1/4-inch) TRS or TS cable.
- **RCA Input:** For unbalanced audio connections from consumer-grade audio equipment.
- **Bluetooth:** For wireless audio streaming from compatible devices.

Connect your audio source to the desired input on the rear panel of the monitor. If using a stereo pair, connect each monitor to the left and right outputs of your audio source.

5.3 Power Connection

After making all audio connections, connect the supplied power cable to the AC input on the rear of the monitor and then to a suitable power outlet. The monitor supports AC power options from 100V to 240V.

6. OPERATING

6.1 Power On/Off

Locate the power switch on the rear panel of the monitor. Flip the switch to the 'ON' position to power on the unit. The power indicator LED (green/white LOGO) will illuminate. Flip to 'OFF' to power down.

6.2 Volume Control

Adjust the system volume using the dedicated control on the monitor. Start with a low volume setting and

gradually increase it to a comfortable listening level.

6.3 Equalization (EQ) Adjustment

The monitor features HF/LF level adjustment controls to fine-tune the frequency response to your listening environment. These controls allow for adjustments of -2, 0, +1, or +2 dB for both high and low frequencies. Experiment with these settings to achieve the desired tonal balance.

6.4 Bluetooth Pairing and TWS

To connect via Bluetooth:

1. Ensure the monitor is powered on and in Bluetooth pairing mode (refer to the monitor's specific Bluetooth indicator, if any).
2. On your compatible device (smartphone, tablet), enable Bluetooth and search for available devices.
3. Select 'Diamond Studio 7BT' from the list of devices to pair.

True Wireless Stereo (TWS): The Diamond Studio 7BT supports TWS technology, allowing two monitors to be linked wirelessly to create a stereo pair from a single Bluetooth input. Follow the specific instructions provided with your monitors for TWS pairing, typically involving a sequence of button presses on both units to establish the stereo link.

7. MAINTENANCE

To ensure the longevity and optimal performance of your Diamond Studio 7BT monitors:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the monitor. Do not use abrasive cleaners, waxes, or solvents.
- **Dust:** Regularly dust the speaker grilles and cabinet to prevent dust buildup, which can affect sound quality and cooling.
- **Storage:** If storing the monitors for an extended period, disconnect them from power and store them in a cool, dry place, ideally in their original packaging.

8. TROUBLESHOOTING

If you encounter issues with your Diamond Studio 7BT monitors, refer to the following common problems and solutions:

- **No Power:**
  - Ensure the power cable is securely connected to both the monitor and a working power outlet.
  - Check the power switch position.

- **No Sound:**
  - Verify that the audio source is playing and its volume is turned up.
  - Check all audio cables for secure connections and ensure they are not damaged.
  - Confirm the correct input is selected on the monitor (if applicable).
  - If using Bluetooth, ensure the monitor is successfully paired and connected to your device. Some users have reported initial Bluetooth connection issues; ensure the monitor is not faulty by testing with wired connections.
  - Adjust the system volume on the monitor.

- **Distorted Sound:**
  - Reduce the input level from your audio source.
  - Lower the system volume on the monitor.
  - Check for damaged cables.

- **Bluetooth Connection Issues:**
  - Ensure the monitor is within range of your Bluetooth device.
  - Try unpairing and re-pairing the device.
  - If using TWS, ensure both monitors are correctly linked according to the TWS pairing procedure.

- **Protection Features:** The monitor includes amplifier protection, power-on mute, thermal protection (amplifier shutdown, auto-reset), and driver, DC, and short-circuit protection. If the monitor unexpectedly shuts down or stops producing sound, these protection circuits may have been activated. Allow the unit to cool down or check for short circuits.

If the problem persists, contact Wharfedale Pro customer support for assistance.

9. SPECIFICATIONS

Feature	Specification
System Type	Active 6.5-inch 2-way Bi-amplified
Frequency Range (-10 dB) Analog Input	38 Hz - 25 kHz
Maximum SPL (peak @ 1 m)	113 dB
LF Transducer	6.5-inch Fiberglass Composite Woofer
HF Transducer	Silk Soft Dome Tweeter
Voice Coil Size	25.4 mm / 1 inch
High Frequency Coverage (H x V)	135° x 110°
Total Power Amplifiers	150 W
LF Power Amplifier (Class D)	90 W continuous / 180 W peak
HF Power Amplifier (Class D)	60 W continuous / 120 W peak
Crossover Frequency	2.2 kHz
Equalization (dB)	HF/LF Level Adjustment (-2, 0, +1, +2)
System Volume	-∞ to +10 dB
Amplifier Protection	Yes
Power-on Protection	On/Off Mute Switch
Thermal Protection	Amplifier Shutdown, Auto-reset

Feature	Specification
Driver, DC, and Short-circuit Protection	Yes
Limiter Indicator	Red LED
Power Indicator	Green LED / White LED (LOGO)
Input Type	Balanced / Unbalanced / Bluetooth
Input Connectors	TRS Jack / Female XLR / RCA
AC Power Options	100V-240V
Cabinet Material	MDF
Color	Black
Product Dimensions (D x W x H)	26cm x 21cm x 34cm
Item Weight	6.84 Kilograms
Wireless Communication Technology	Bluetooth
Speaker Size	6.5 Inches
Power Source	Corded Electric
Maximum Speaker Output Power	300 Watts
Audio Output Mode	Stereo
Mounting Type	Table Mount
Recommended Uses for Product	Studio, Studio Monitor

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official Wharfedale Pro website. Keep your proof of purchase for any warranty claims.