JBL 705P

JBL Professional 705P Studio Monitor Instruction Manual

Model: 705P
Brand: JBL

1. Introduction

The JBL 705P is a 5-inch Bi-Amplified self-powered Master Reference monitor designed for critical music recording, film post, and broadcast production applications. It incorporates advanced driver technologies and JBL's Image Control Waveguide, delivering high output and pristine accuracy in various room environments. This manual provides essential information for the proper setup, operation, and maintenance of your JBL 705P studio monitor.

2. Safety Information

Please read and retain these instructions. Heed all warnings and follow all instructions to ensure safe operation and prevent damage to the unit. 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. Only use attachments/accessories specified by the manufacturer. Unplug this apparatus during lightning storms or when unused for long periods of time.

Proposition 65 Warning:
This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

3. Package Contents

- 1 x JBL 705P Studio Monitor

4. Setup

4.1 Placement

The JBL 705P is designed for near-field monitoring. For optimal performance, position the monitors equidistant from your listening position, forming an equilateral triangle. Ensure the tweeters are at ear level. Avoid placing monitors directly against walls or in corners, as this can affect bass response. Consider using isolation pads or stands to minimize

vibrations.

4.2 Connections

The JBL 705P offers versatile input options:

- **Analog Audio Input:** 1 x XLR-1/4" balanced combination input. Use balanced cables for best performance.
- **Digital Input:** 1 x XLR AES3 format digital input with 1 x XLR pass-through output. Supports sample rates up to 192 kHz.
- **Network Connection:** RJ-45 network connection for Harman HiQnet connectivity, allowing for advanced control and system integration.

Connect your audio source to the appropriate input on the rear panel of the monitor. Ensure all connections are secure before powering on.





Figure 1: Rear panel of the JBL 705P monitor, illustrating the various input and control connections including XLR, AES3, and RJ-45 ports.

4.3 Power

Connect the supplied AC power cord to the monitor's power inlet and then to a suitable AC power outlet. The monitor features an integrated bi-amplification system (High Frequency 250W / Low Frequency 250W).

4.4 Initial Configuration

The rear-panel multi-function controls and LCD display allow for detailed configuration:

- **Input Sensitivity:** Adjust to match your source device's output level.
- **Input Trim:** Fine-tune the input level.
- **Room EQ:** Utilize the 12 bands of Room EQ to compensate for room acoustics.
- **User EQ:** Apply 8 bands of User EQ for personalized sound shaping.
- **Presets:** Select from 6 factory presets or save up to 6 user-defined presets.
- **Room Delay:** Adjust for speaker distance (up to 18 milliseconds).
- **AV Sync Delay:** Compensate for audio/video synchronization issues (up to 150 milliseconds).

5. Operating Instructions

5.1 Powering On/Off

To power on the monitor, flip the power switch located on the rear panel to the 'ON' position. The LCD display will illuminate, and the monitor will initialize. To power off, flip the switch to 'OFF'.

5.2 DSP Processing

The JBL 705P features internal 192 kHz, 32-bit floating point DSP processing for precise audio control and optimization. This allows for advanced signal manipulation without external hardware.

5.3 Using Controls

Navigate the menu on the LCD display using the multi-function controls to access and adjust settings such as input selection, EQ parameters, and delay settings. Refer to the on-screen prompts for guidance.

5.4 Harman HiQnet Connectivity

For advanced control and integration into larger systems, connect the monitor to a Harman HiQnet network via the RJ-45

port. This enables remote control and monitoring capabilities through compatible software.



Figure 2: Front and side view of the JBL 705P Studio Monitor, highlighting its compact design and Image Control Waveguide.

6. Maintenance

To maintain the performance and appearance of your JBL 705P monitor:

- **Cleaning:** Wipe the cabinet with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as they may damage the finish.
- **Storage:** If storing the monitor for an extended period, ensure it is in a dry, temperature-controlled environment, away from direct sunlight and extreme temperatures.
- **Ventilation:** Ensure ventilation openings are clear of dust and debris to prevent overheating.

7. Troubleshooting

Problem	Possible Cause	Solution
No power	Power cable disconnected; Power switch off; Faulty outlet	Check power cable connection; Ensure power switch is ON; Test outlet with another device
No sound	Incorrect input selection; Low volume; Source device issue; Incorrect cabling	Verify input selection on LCD; Increase monitor volume; Check source device output; Ensure cables are correctly connected and functional
Distorted sound	Input level too high; Speaker placement issues; Room acoustics	Reduce input level/trim; Adjust speaker placement; Consider room treatment or EQ adjustments
No network connectivity	RJ-45 cable disconnected; Network configuration error	Check RJ-45 cable connection; Verify network settings on the monitor and connected devices

8. Specifications

Feature	Specification
Model Name	705P
Speaker Type	Reference Monitor
Speaker Size	5 Inches (Woofer Diameter)
Speaker Maximum Output Power	250 Watts (per amplifier)
Frequency Response (±3 dB)	45Hz-25kHz
Frequency Range	39Hz – 36 kHz
Special Feature	Patent-pending JBL Image Control Waveguide, Integrated 250W + 250W dual-amplification system
Connectivity Technology	XLR (1 x XLR-1/4" balanced analog, 1 x XLR AES3 digital input with pass-through)
Product Dimensions	10.8"D x 5.9"W x 10.6"H (274 x 151 x 268 mm)
Item Weight	8.98 pounds (4.08 kg)
Material	Engineered Wood
Color	Black

Feature	Specification
Power Source	Corded Electric
Control Method	Touch (via LCD and controls)
Specific Uses For Product	Professional audio recording and monitoring

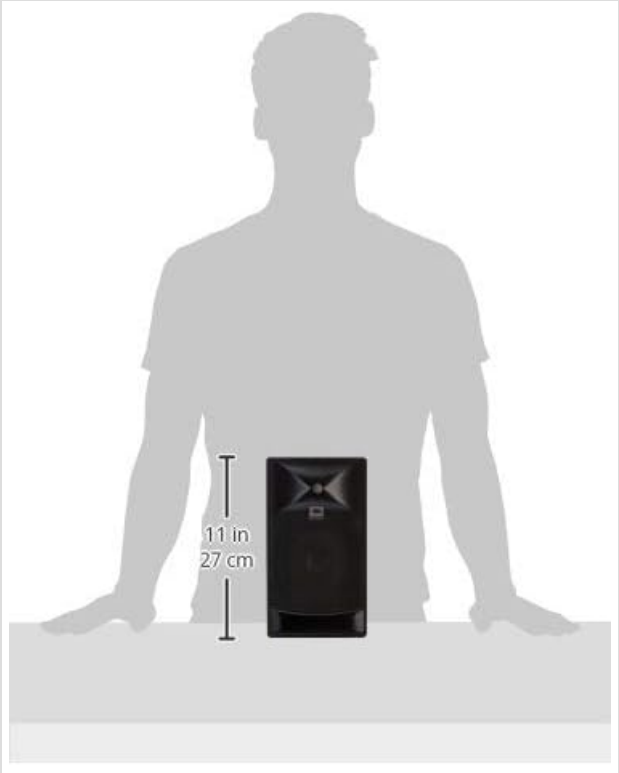


Figure 3: Dimensional diagram of the JBL 705P monitor.

9. Warranty and Support

The JBL 705P Studio Monitor comes with a limited warranty. For detailed warranty terms, technical support, and service information, please refer to the official JBL Professional website or the comprehensive user manual available for download. You can also contact JBL Professional customer support directly for assistance.
For the full user manual, please visit:JBL 705P User Manual (PDF)

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question