

**MONOPRICE®**

**PRO AUDIO SERIES**

## 8-inch Powered Studio Monitor Speakers (pair)



**605800**

## INTRODUCTION

Thank you for purchasing these 8-inch Powered Studio Monitor Speakers (pair) from Monoprice! These speakers are studio-quality, bi-amplified near-field reference monitors, designed to monitor your studio recording, mixing, and mastering duties. Each speaker is separately powered, has its own dedicated amplifier, and uses both balanced XLR and balanced/unbalanced TRS/TS audio input paths.

## FEATURES AND CONTROLS

1. **Tweeter** - The tweeter is a 1.25" silk dome design with magnetic shielding and speaker is designed for a flat frequency response and accurate musical reproduction. The tweeter combines with the woofer and crossover to produce a smooth, seamless audio experience across all frequencies.

2. **Woofer** - The woofer is a 8" Kevlar cone with magnetic shielding, rubber surround, and a high-temperature voice coil, for long hours of high volume work. The woofers combine with the tweeter and crossover to produce a smooth, seamless audio experience across all frequencies.

3. **Power Indicator** - This small LED on the front of the enclosure lights to indicate that power is ON.

4. **Crossover** (not shown) - The crossover circuit is a critical element that directs the audio frequencies to the driver best able to reproduce them accurately. It has been designed to produce a smooth blend between the output of the tweeter and woofer with no drop-out or points of audio weakness.

5. **Amplifiers** (not shown) - Each monitor enclosure includes two separate power amplifiers. A 40 watt amplifier is used to drive the tweeter, while a 80 watt amp drives the woofer. This use dual amplifiers ensures that each driver has the power it needs without compromising the output of the other driver, ensuring that the audio output remains crisp, clean, loud, and distortion free at all times.

6. **Bass Reflex Port** - Each monitor has a specially tuned port, which is designed to allow bass signals to escape from the back of the enclosure. The shape and size of these ports is such that it greatly enhances the bass response of the speakers.

7. **Cabinet** - Each speaker cabinet is made of medium-density fiberboard (MDF) with internal acoustic material and form designed to enhance audio reproduction, while reducing vibration and distortion.

8. **TRS Input** - Each monitor can accept a balanced or unbalanced TRS input or an unbalanced TS input. The TRS input is summed with the XLR input through a balanced input amplifier circuit, which means that both inputs can be used simultaneously. The pin out is printed on the back of each monitor and is as follows for TRS connectors.

- **TRS Tip = positive signal (+)**
- **TRS Ring = negative signal (-)**
- **TRS Sleeve = ground signal (sleeve)**

When a TS plug is used, the signal negative input is grounded to the sleeve, producing an unbalanced configuration. A TRS plug can also be wired for unbalanced operation, with the signal negative shorted to the ground.

9. **XLR Input** - Each monitor includes an XLR connector for balanced signal inputs. The XLR input is summed with the TRS input through a balanced input amplifier circuit, which means that both inputs can be used simultaneously. The pin out is printed on the back of each monitor and is as follows for XLR connectors.

- **XLR pin 1 = ground signal (shield)**
- **XLR pin 2 = positive signal (+)**
- **XLR pin 3 = negative signal (-)**

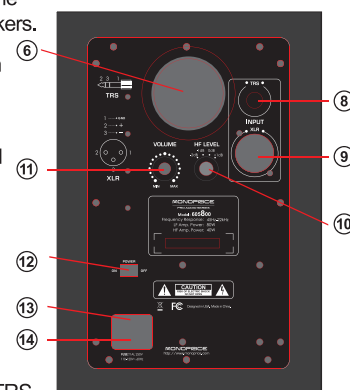
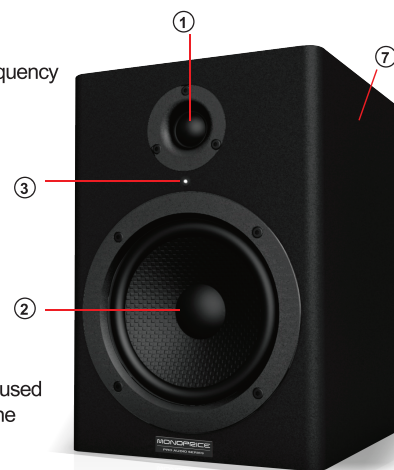
10. **HF Level** - This four-position selector switch allows you to adjust the high-frequency bias, with either a -2dB, -1dB, Flat, or +1dB shelving. The purpose of this circuitry is to adjust the high-frequency response to the characteristics of the room being used. In a "bright" musical environment, an attenuation of the high frequencies is needed to help flatten the frequency response, while a more sound absorbant environment may require a boost of the high-frequencies. The default position is "Flat".

11. **Volume Knob** - Rotate the volume knob clockwise to increase volume and counterclockwise to decrease volume.

12. **Power** - This rocker switch applies power to the speaker when in the ON position. Whenever making connections to the speaker, ensure that the power switch is OFF. Only turn it ON once all connections have been made and you are ready to use them. To conserve energy and avoid incidental damage to the speakers, turn them OFF when not in use.

13. **AC Jack** - This AC input jack accepts a power cable with a grounded IEC 60320 C14 plug on one end and a grounded NEMA 5-15 plug on the other. The appropriate AC cable is supplied with the unit. However, if you need a replacement or want to get a longer cord, use a cord with the exact same connectors.

14. **Fuse Holder** - A fuse is used to protect the circuitry and speakers in these monitors from excessive current. The fuse used is a T1AL 250V fuse. Replace the fuse only with the exact same type.



## SETUP AND OPERATION

1. Carefully remove the speakers and all materials from the packaging.

**WARNING!** These monitors have no grill covering the speaker diaphragm, so extreme care must be taken to avoid touching and damaging the speaker cones when removing the monitors from the packaging!

2. Check the contents against the following list. If you are missing any item, please contact Monoprice Customer Service for a replacement. Inside the packaging, you should find the following items:

- **2x 8-inch Powered Studio Monitor Speakers (pair)**
- **2x AC power cord (IEC 60320 C14 to NEMA 5-15)**
- **1x User's Manual**

3. Ensure that the power switch on each enclosure is set to the OFF position.

4. Position each monitor in the desired location. Ensure that the monitor is stable and fully supported upon whatever surface it is positioned and that there is sufficient room to reach the controls on the back of the monitor. We recommend that you place your speakers at equal height with your ears, and turned slightly inward, so that each speaker is pointed at the listener.

5. For each monitor, connect balanced XLR, balanced TRS, unbalanced TRS, or unbalanced TS cables the TRS and/or XLR inputs on the back panel. You may connect either or both the XLR and TRS inputs to preamps, mixers, or other line-level devices.

6. For each monitor, plug the AC cord into the monitor, then into an available AC outlet. Note that the input power is grounded and it should be connected to a grounded power source. Do not use a cheater plug or otherwise bypass the grounding.

7. Double-check all your connections to ensure that they are fully connected and secure.

8. Turn the volume knob on each monitor fully counterclockwise. This ensures that you don't inadvertently damage the speakers, or your hearing, when power and audio material is applied.

9. Switch the power ON.

10. Start your audio source(s).

11. Turn the volume knob clockwise to increase the volume to a comfortable level.

14. If the high-frequencies sound too bright, try using the HF Level switch to attenuate them by -1dB or -2dB. If the high-frequencies sound a bit muddled or subdued, try boosting them by setting the HF Level switch to the +1dB position.

## SPECIFICATIONS:

Speaker Type :	2-way Near-Field Studio Reference Monitor Speakers
LF Amplifier :	80 watts continuous
HF Amplifier :	40 watts continuous
Input Connections :	1 XLR connector for balanced connections and 1 TRS connector balanced and unbalanced TRS and TS connections
Input Impedance :	10K ohms unbalanced, 20K ohms balanced
Sensitivity :	90dBA output SPL at 1 meter with 85mV pink noise input
Woofers :	8" Kevlar cone with high-temperature voice coil and magnetic shielding
Tweeters :	1.25" silk dome with magnetic shielding
Frequency Response :	45Hz to 22KHz
Crossover Frequency :	2.2KHz
S/N Ratio :	> 100dB (typical, A-weighted)
HF Level :	Switchable, -2dB, -1dB, Flat, or +1dB boost
Power Requirements :	100-120 VAC, 60Hz
Power Cable :	IEC 60320 C14 to NEMA 5-15
Dimensions (HxWxD) :	10" x 6.9" x 7.8" (254 x 176 x 198 mm) each
Weight :	26.5 lbs (12 kg)

### Proposition 65 Warning

This product contains chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

### FCC Compliance for United States

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### WARRANTY

Monoprice warrants this product to be free from defects in material and workmanship, under normal use, for a period of ONE (1) YEAR. If you are having trouble with this device, please contact Monoprice Technical Support for assistance.