

# LONPOO

## Home Audio Products

### LONPOO LP-42 4-Inch 2-Way Loudspeaker

*Thank you for purchasing the LONPOO LP-42 Bookshelf Speaker!*

*Please take the time to become familiar with the LP-42 and the placement options as detailed in this manual.*

### General Recommendations

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**Height** - For stereo listening from a fixed listening area, the LP-42 should ideally be placed at the ear-level of the listener, with the listener comfortably situated in the listening location.

**Separation** - The distance between a pair of LP-42 speakers should be shorter than the distance from the speakers to the listener. Tilt the two speakers inward toward the listener slightly for best results.

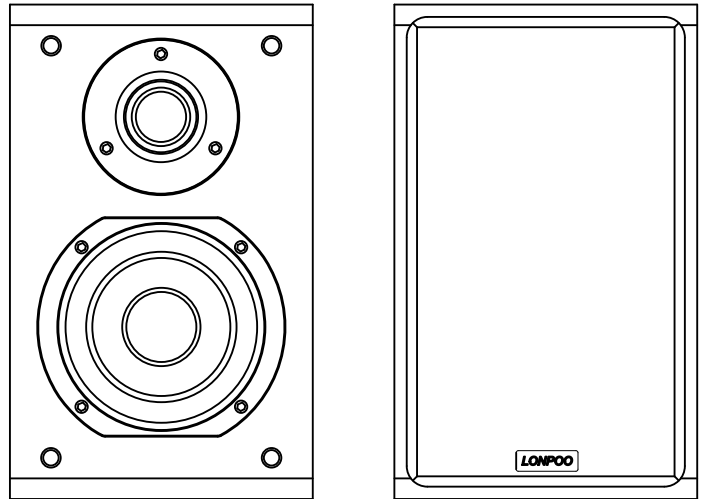
**Orientation** - The speakers provide the best results in its normal vertical orientation. When the speakers are placed much higher or much lower than the recommended ear-level height, the speakers can be placed on its side to provide better off-axis performance in these less than optimal placements.

### Usage-Specific Recommendations

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#### Bookshelf Speakers

When placed on bookshelves, it is important to keep both speakers at the same height. Avoid placing the speakers at different heights as this will degrade the sound. Speaker height should be selected so that it is as close to ear level as possible while considering whether listeners will be seated or standing in the listening area.



#### Stereo Speaker on Stands

When used with speaker stands, it is important to select speaker stands that place the speakers to the ear level of the listener. Do this by measuring the height of the listener's ear when seated in the listening area, and subtracting 6 inches. For example, if the listener's ear is measured at 36 inches from the floor when seated, select speaker stands that are approximately 30 inches high.

#### Desktop Near-field Monitor

The LP-42 can be used as desktop/near-field monitor speakers, such as when placed to the either side of a display or mixing console. If the MB42 cannot be located near ear level, foam monitor isolation wedges can be used to slightly tilt back the speakers and to decouple the speakers from the desk surface. Be aware that the LP-42 is not shielded and thus should not be placed in proximity to CRT displays or other magnetic-sensitive equipment.

#### Speaker Wire

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The LP-42 should be connected to the amplifier with good quality oxygen-free copper speaker wire for best performance.

The gauge or thickness of the speaker wire can affect the performance of the LP-42. Always choose a speaker wire of the appropriate gauge to prevent excessive speaker wire resistance. Using undersized speaker wire can result in loss of volume, detail, and dynamic range. Please select speaker wire for the LP-42 based on the following minimum recommendations:

*50' or less - 16 Gauge 2 Conductor*  
*50' - 80' - 14 Gauge 2 Conductor*  
*80'-120' - 12 Gauge 2 Conductor*  
*120'-200' - 10 Gauge 2 Conductor*

### **Amplifier Connection**

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Amplifier speaker output terminals are typically color coded with black for negative (-) and red for positive (+). Similarly, the LP-42 has speaker wire terminals with a black and red color coding. When connecting speaker wire, ensure that the positive terminal on the amplifier is connected to the positive terminal on the LP-42. And similarly, the negative terminal on the amplifier should be connected to the negative terminal on the LP-42.

Speaker wires typically use at least one of several possible methods to help maintain correct polarity, including color coded insulation or conductor strands, or printing of text and symbols along one side of the wire insulation.

### **Amplifier Considerations**

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The LP-42's impedance varies between 4 to 8 Ohms. Care must be taken to ensure that the amplifier is capable of handling a 4-Ohm load. Some amplifiers have a switch that must be set to select a 4-Ohm compatible operation mode. Improper amplifier selection or setup may result in permanent damage to the amplifier or speaker.

The LP-42 can be used with amplifiers between 15 to 100 watts per channel as long as reasonable care is exercised. If there is audible distortion, turn down the volume until the distortion goes away. Never allow the speaker and amplifier to play for more than a few seconds when there is audible distortion.

### **Removing the Grill**

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The LP-42 has a removable grill that is held in place by four friction pegs. To remove the grill, carefully pry the grill off from edge until the friction pegs are fully disengaged. To avoid damaging the speaker drivers, do not touch them either with or without the grill in place.

The LP-42 can be used without the grills installed as long as care is taken to prevent the drivers from damage such as by hard/sharp objects, liquids, pets, or hands. Store the grills in a safe dry place when not in use.

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### **LP-42 Specifications**

**Woofers:** 4" Carbon Fiber Cone with Rubber Surround  
**Tweeter:** 1" Silk Dome  
**Enclosure:** Ported Cabinet  
**Frequency Response:** 60Hz-20kHz (Typical In-Room)  
**Impedance:** 4-8 Ohms  
**Sensitivity:** 85dB 1W/1M  
**Power Handling:** 75 Watts (Each)  
**Dimensions:** 9.5" (H) x 5.8" (W) x 6.5" (D)

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