Polk Audio TL 1 Sat black

Polk Audio Blackstone TL1 Satellite Speaker User Manual

Model: TL 1 Sat black

1. Introduction and Overview

The Polk Audio Blackstone TL1 Satellite Speaker is designed to deliver high-quality digital surround sound in a compact form factor. Its advanced technologies ensure clear audio reproduction and precise imaging, making it an ideal component for home entertainment systems.



Figure 1.1: Front view of the Polk Audio Blackstone TL1 Satellite Speaker, showcasing its compact design and hi-gloss black finish.

Key Features

- **Time Lens Technology:** Aligns the acoustic centers of the tweeter and mid-bass driver for superior imaging and smooth frequency response.
- **Aperiodic-Tuned Rear Port:** Designed for enhanced bass extension and a pleasing mid-bass boost, allowing for versatile placement options.
- **Curved Enclosure Design:** Features non-parallel surfaces for a rigid, acoustically inert enclosure, reducing audible coloration.
- **1/2-inch Silk Dome Tweeter:** Provides crisp, clear imaging and smooth, non-fatiguing high-frequency response.
- **2-1/2-inch Long-Throw Driver with Dynamic Balance Technology:** Polk's patented process tunes materials for a flat frequency response, sharp detail, and high output without strain.

2. Setup

Speaker Placement

Proper speaker placement is crucial for optimal sound performance. For surround sound applications, position the TL1

satellite speakers at ear level, slightly to the left and right of your primary listening position. The aperiodic-tuned rear port allows for flexible placement, including against a wall or in open spaces, without significant distortion.

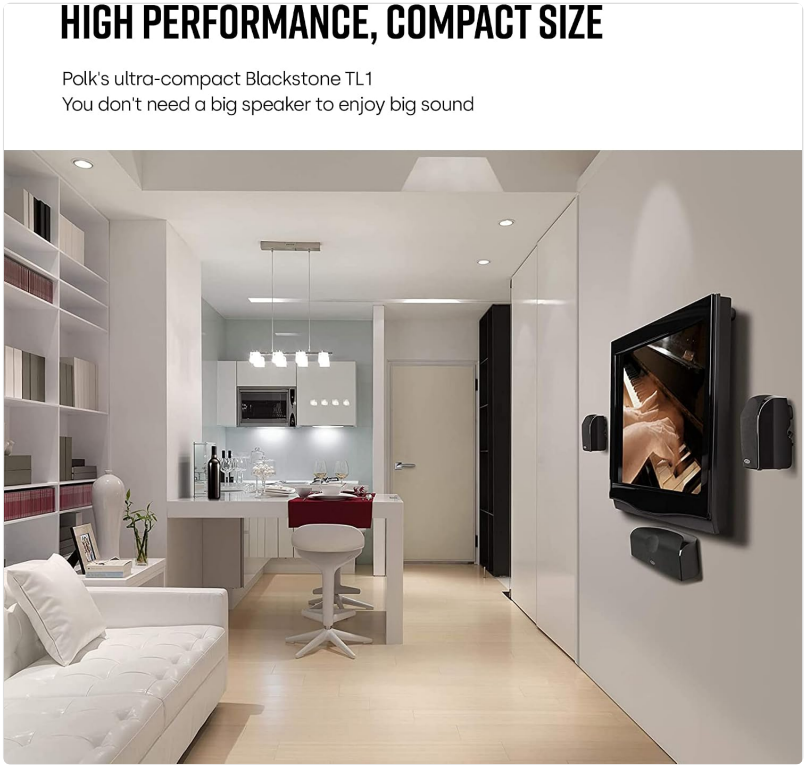


Figure 2.1: Example of TL1 satellite speakers wall-mounted in a living room, demonstrating their discreet integration into home decor.

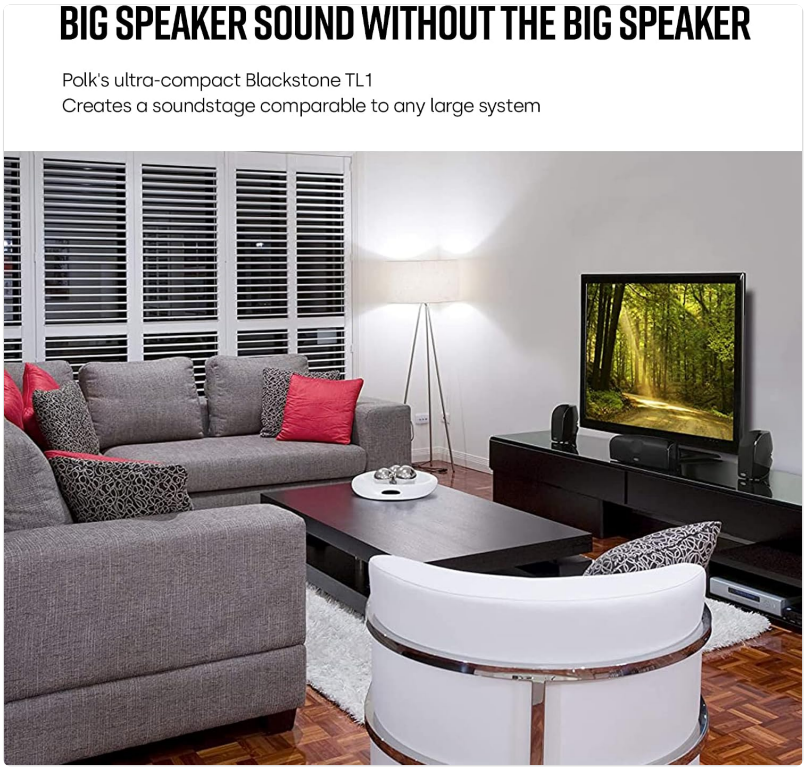


Figure 2.2: Example of TL1 satellite speakers placed on a media console, illustrating their versatility for various setups.

Connections

Connect the TL1 satellite speaker to your audio receiver or amplifier using high-quality speaker wire. Ensure that the positive (+) terminal on the speaker (red) connects to the positive (+) terminal on your receiver, and the negative (-) terminal on the speaker (black) connects to the negative (-) terminal on your receiver. The speaker has an impedance of 8 Ohms.



Figure 2.3: Rear view of the TL1 speaker, highlighting the red and black binding posts for speaker wire connections and the keyhole slot for wall mounting.

The speaker also features built-in keyhole slots and threaded inserts for easy wall mounting, providing flexible installation options.

3. Operation

Audio Settings

For optimal performance, especially in a home theater setup, it is recommended to pair the TL1 satellite speakers with a dedicated subwoofer. This speaker is designed to blend seamlessly with a subwoofer, providing a full-range audio experience. Adjust your receiver's crossover frequency settings to around 120Hz for the satellite speakers to ensure

proper integration with your subwoofer.

The Time Lens technology ensures that all frequencies reach your ears simultaneously, contributing to superior imaging. The Dynamic Balance technology minimizes distortion, allowing for clear and detailed sound reproduction even at higher volumes.



Figure 3.1: Diagram explaining Time Lens Technology, which aligns the drivers for precise sound delivery, and highlighting the 1/2-inch silk dome tweeter and 2-1/2-inch Dynamic Balance mid/woofer.

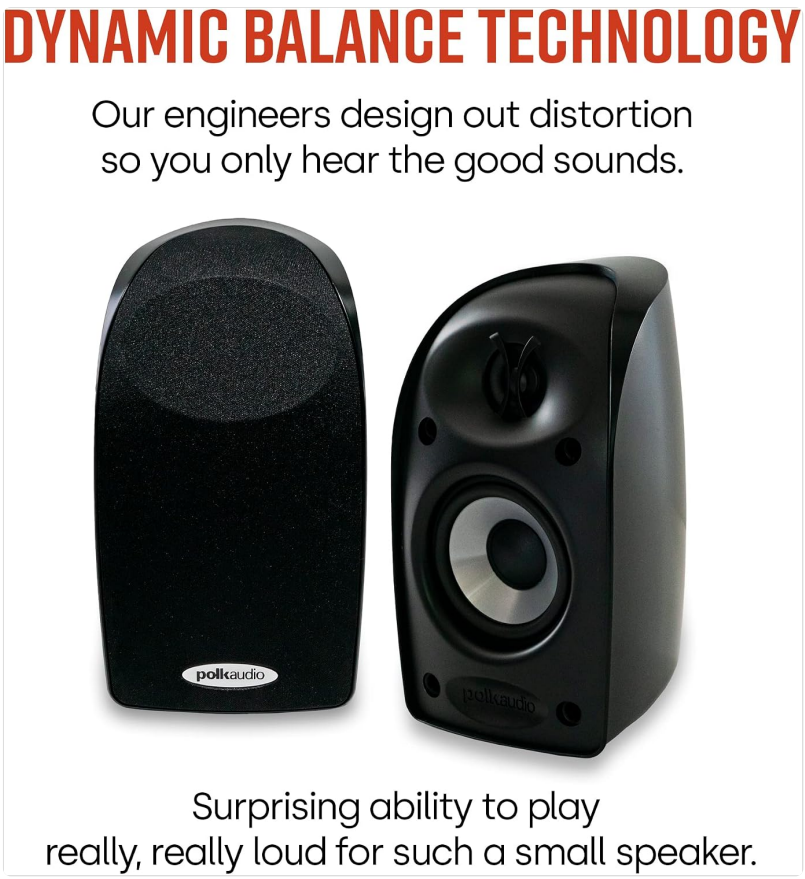


Figure 3.2: Front view of the TL1 speaker with and without its grille, demonstrating the Dynamic Balance Technology designed to reduce

distortion.

4. Maintenance

Cleaning

To maintain the appearance and performance of your Polk Audio TL1 Satellite Speaker, regularly wipe the cabinet with a soft, dry cloth. Avoid using harsh chemicals, abrasive cleaners, or excessive moisture, as these can damage the finish or internal components. For the grille, a soft brush or vacuum cleaner with a brush attachment can be used to gently remove dust.

Storage

If storing the speaker for an extended period, keep it in a cool, dry place away from direct sunlight and extreme temperatures. It is advisable to store it in its original packaging to protect it from dust and physical damage.

5. Troubleshooting

This section addresses common issues you might encounter with your Polk Audio TL1 Satellite Speaker.

Problem	Possible Cause	Solution
No sound from speaker	Loose or incorrect speaker wire connection. Receiver/amplifier not powered on or set to correct input.	Check all speaker wire connections at both the speaker and the receiver/amplifier. Ensure receiver is powered on and the correct audio input is selected.
Distorted or unclear sound	Volume too high. Damaged speaker wire. Speaker placed too close to a wall or corner.	Reduce the volume level. Inspect speaker wires for fraying or damage and replace if necessary. Adjust speaker placement to optimize sound.
Weak or lacking bass	No subwoofer connected or improperly configured. Crossover frequency set too high.	Ensure a subwoofer is connected and properly configured with your receiver. Adjust the receiver's crossover frequency for the satellite speakers to a lower setting (e.g., 120Hz).

6. Specifications

Detailed technical specifications for the Polk Audio Blackstone TL1 Satellite Speaker:

Feature	Detail
Model Name	TL 1 Sat black
Speaker Type	Satellite
Mounting Type	On A, Wall Mount
Color	Black
Material	Plastic
Product Dimensions (D x W x H)	3.8"D x 4.9"W x 6.5"H (9.65 cm D x 12.45 cm W x 16.51 cm H)

Feature	Detail
Item Weight	1.85 pounds (0.84 Kilograms)
Impedance	8 Ohm
Speaker Maximum Output Power	50 Watts
Frequency Response	22 KHz (Upper limit, lower limit not specified for satellite)
Tweeter Diameter	0.5 Inches (1.27 Centimeters) Silk Dome
Woofer Diameter	2.5 Inches (6.35 cm) Long-Throw Dynamic Balance
Surround Sound Channel Configuration	1.0 (Single Speaker)
Recommended Uses For Product	Home Theater
Connectivity Technology	Optical (for system integration), Wired (for speaker connection)
Included Components	Polk Audio TL 1 Satellite Speaker (Each, Black)
UPC	747192120887
Manufacturer	Polk Audio
Date First Available	September 1, 2010



Figure 6.1: Detailed dimensions of the TL1 Satellite Speaker: 6.5 inches tall, 4.875 inches deep, and 3.75 inches wide.

7. Warranty Information

The Polk Audio Blackstone TL1 Satellite Speaker comes with a Limited Warranty. For specific terms, conditions, and duration of the warranty, please refer to the original purchase documentation or visit the official Polk Audio website. Keep

your proof of purchase for warranty claims.

8. Support

For further assistance, technical support, or to explore other Polk Audio products, please use the following resources:

- **Polk Audio Store:** Visit the official Polk Audio Store on Amazon for product information and accessories.
- **User Manual (PDF):** A downloadable PDF version of the user manual is available here.
- **Manufacturer Website:** For the most up-to-date support information, FAQs, and contact details, please visit the official Polk Audio website.

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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.

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