

## Technical Pro KTHM12X65

# Technical Pro Home Audio System Kit KTHM12X65 Instruction Manual

Model: KTHM12X65

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Technical Pro Home Audio System Kit KTHM12X65. This comprehensive audio system is designed to deliver high-quality sound for both residential and commercial environments. Please read this manual thoroughly before using the product to ensure proper setup and optimal performance.

## 2. SAFETY INSTRUCTIONS

- **Electrical Safety:** Always connect the amplifier to a grounded power outlet. Do not expose the unit to rain or moisture. Disconnect power before cleaning or servicing.
- **Ventilation:** Ensure adequate ventilation around the amplifier. Do not block ventilation openings. Overheating can cause damage.
- **Placement:** Place the amplifier on a stable, level surface. Avoid placing it near heat sources, direct sunlight, or areas with excessive dust or vibration.
- **Cleaning:** Use a soft, dry cloth for cleaning. Do not use liquid cleaners or aerosols.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.
- **Speaker Wire:** Ensure correct polarity when connecting speaker wires to prevent damage to speakers and amplifier.

## 3. PACKAGE CONTENTS

Carefully unpack your system and ensure all items listed below are present and in good condition:

- 1 x Technical Pro H12X500UBT Hybrid Amplifier
- 12 x 6.5-inch In-Wall/In-Ceiling Speakers
- 2 x Wired Dynamic Microphones with 10 ft XLR to 1/4" cables

- 1 x 500 ft Spool of 16 Gauge Speaker Wire
- 1 x Wireless Remote Control
- 1 x Power Cable

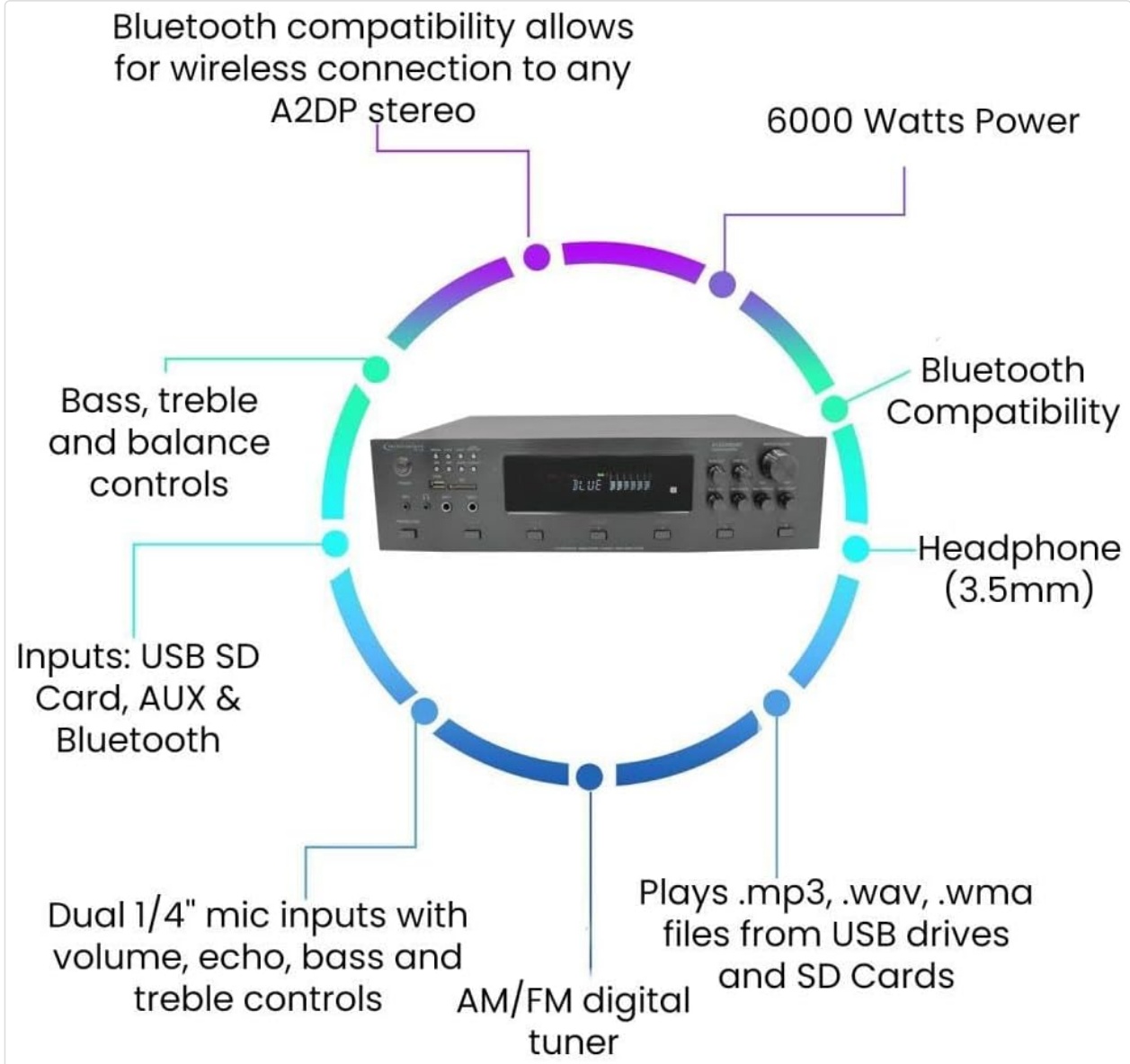


*Image 3.1: All components included in the Technical Pro Home Audio System Kit.*

## 4. PRODUCT OVERVIEW

### 4.1. Hybrid Amplifier (Model: H12X500UBT)

The H12X500UBT is a powerful 6-zone, 12-speaker hybrid amplifier system delivering 6000 watts of power. It features Bluetooth v2.0 connectivity, USB and SD card inputs, iPod compatibility, and a wireless remote for convenient control.



*Image 4.1.1: Key features of the Technical Pro H12X500UBT Hybrid Amplifier.*

# MULTIPLE SOURCE INPUT

Connect & Stream Audio from External Devices



SD Card



Pen Drive



AUX



RCA



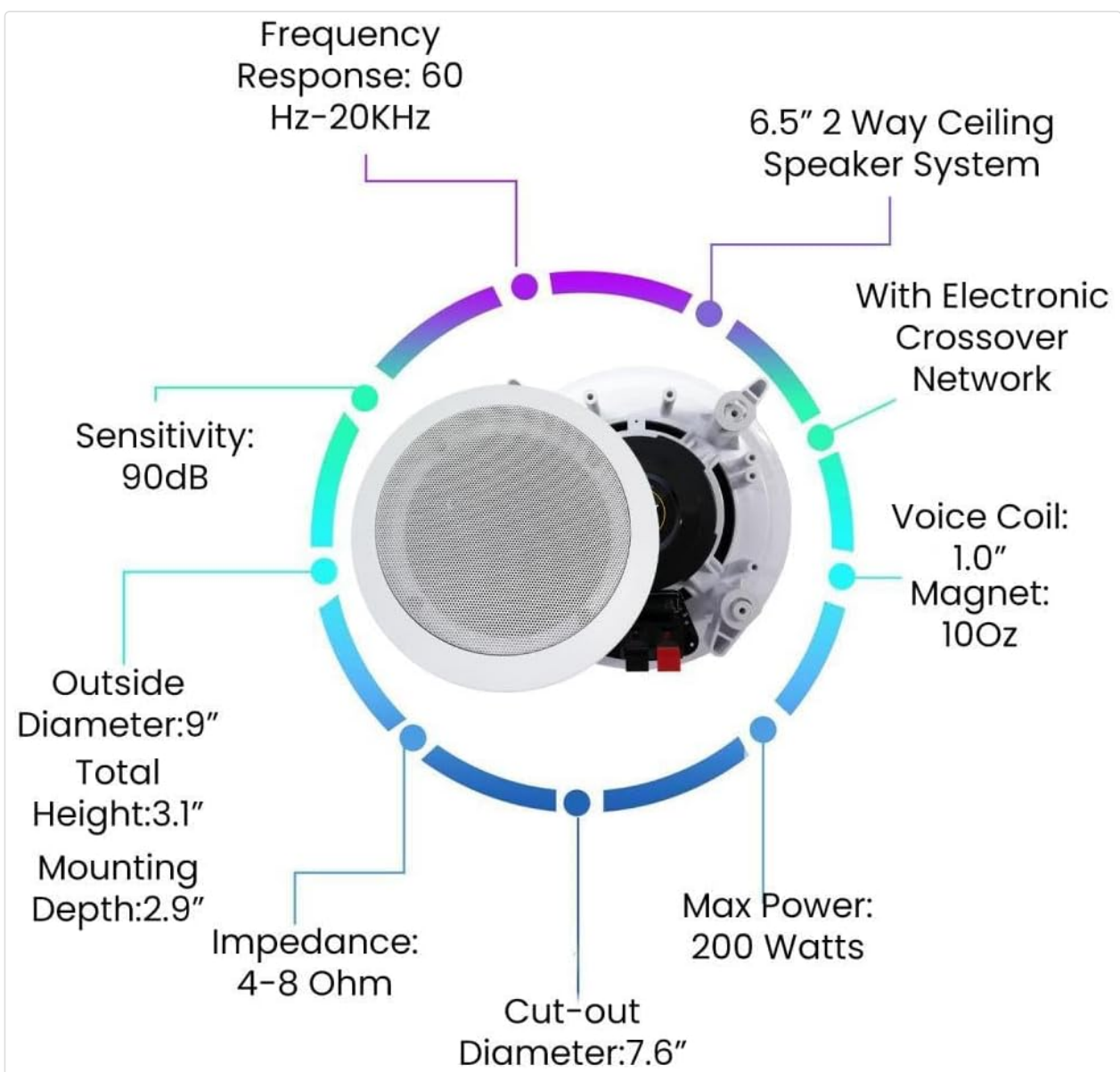
MIC



Image 4.1.2: Front and rear panel layout of the H12X500UBT Amplifier.

## 4.2. In-Wall/In-Ceiling Speakers

The system includes 12 versatile 6.5-inch speakers designed for in-wall and in-ceiling applications. These speakers feature high-temperature voice coils and high-efficiency response rates, providing exceptional sound quality. They come with convenient speaker terminals and a cut-out template for easy installation.



*Image 4.2.1: Key features and dimensions of the 6.5-inch In-Wall/In-Ceiling Speakers.*

### 4.3. Speaker Wire

A 500 ft spool of 16 gauge high-quality speaker zip wire is included. The plastic jacket ensures high-quality, undistorted signals, and a black line indicates polarity for easy setup.



# FEATURES OF SPEAKER WIRE

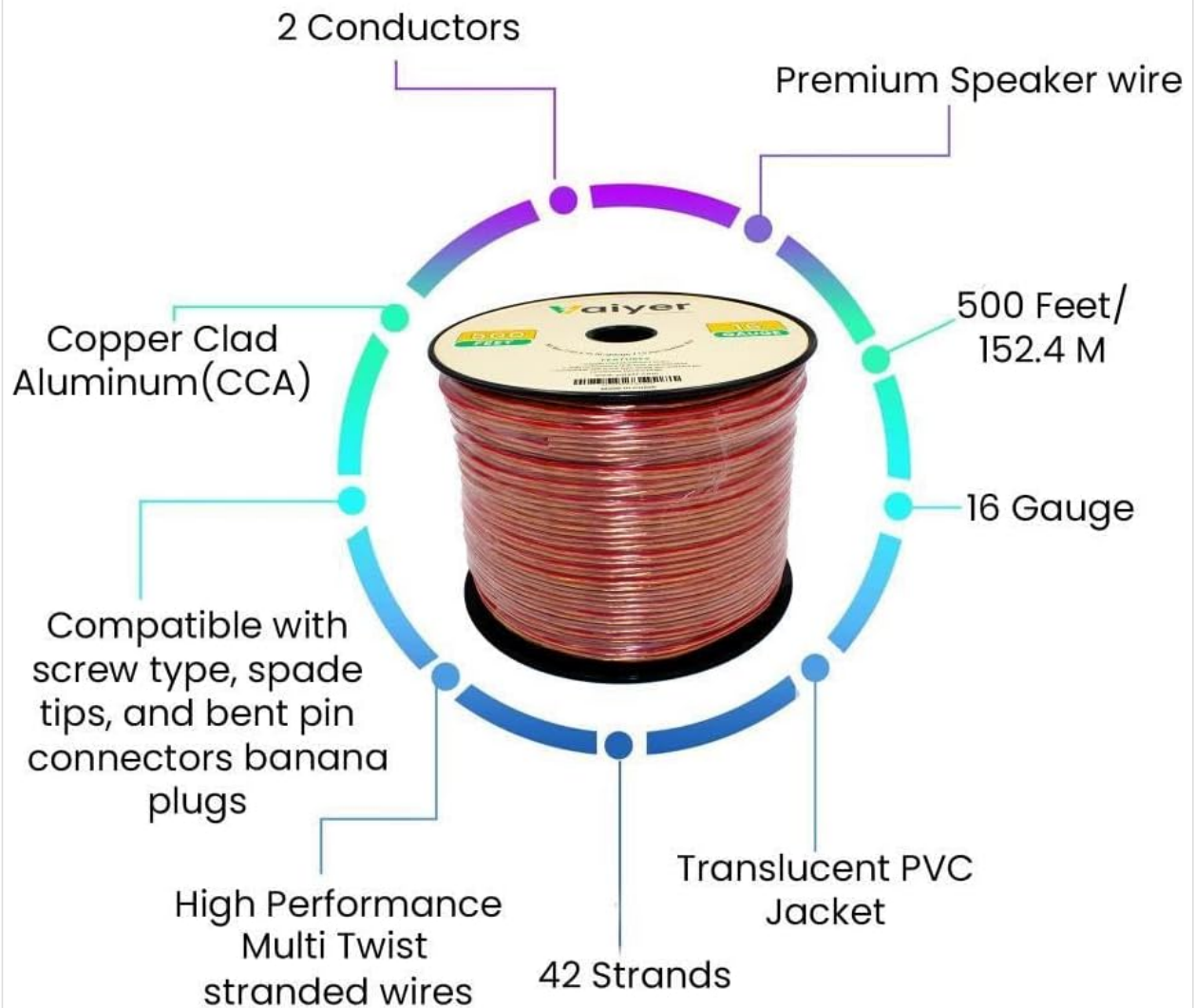


Image 4.3.1: Features of the included 16 Gauge Speaker Wire.

## 4.4. Wired Microphones

Two professional dynamic microphones are included, each with durable steel construction and a 10 ft XLR to 1/4" cable. They feature a frequency range of 50Hz-15kHz, cardioid directional pattern, 600 ohm impedance, and -72dB sensitivity.



Image 4.4.1: Key features of the included Wired Dynamic Microphones.

## 5. SETUP

### 5.1. Amplifier Placement

Place the amplifier on a flat, stable surface with sufficient space around it for proper ventilation. Avoid enclosed cabinets or areas that may restrict airflow.

### 5.2. Speaker Installation

The 6.5-inch speakers are designed for in-wall or in-ceiling mounting. Follow these general steps:

1. **Choose Location:** Select appropriate locations in your wall or ceiling, ensuring no electrical wires, pipes, or structural elements are present.
2. **Cut-out:** Use the provided cut-out template to mark the opening. Carefully cut the hole in the drywall or ceiling material. The cut-out diameter is approximately 7.6 inches.
3. **Wiring:** Run speaker wire from the amplifier to each speaker location. Leave enough slack for connection.
4. **Connect Speaker:** Connect the speaker wire to the speaker terminals. Ensure correct polarity: match the positive (+) terminal on the speaker to the positive (+) terminal on the amplifier, and negative (-) to negative (-). The black line on the speaker wire indicates polarity.
5. **Mount Speaker:** Insert the speaker into the cut-out. The locking tabs will secure the speaker in place. Tighten the screws on the front baffle to engage the locking tabs.
6. **Attach Grille:** Secure the removable speaker grille over the speaker.

# FEATURES OF WIRED MICROPHONE

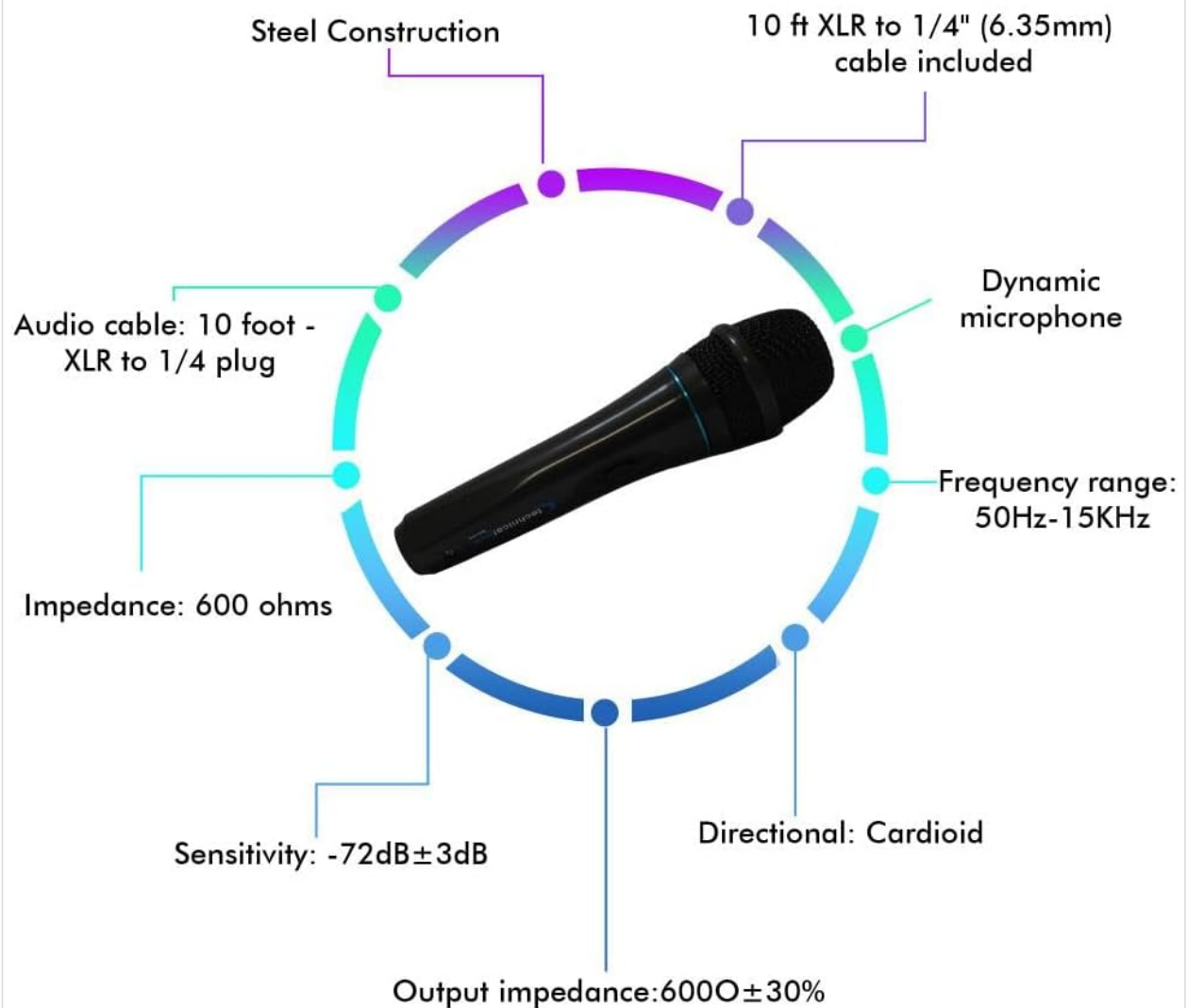


Image 5.2.1: Speaker parts and connection points for installation.

## 5.3. Speaker Wire Connection to Amplifier

Connect the other end of the speaker wires to the corresponding speaker output terminals on the rear of the H12X500UBT amplifier. The amplifier supports 6 zones, each with left and right speaker outputs. Maintain correct polarity (positive to positive, negative to negative) for all connections.

## 5.4. Microphone Connection

Connect the 10 ft XLR to 1/4" cable from each microphone to the MIC1 or MIC2 input jacks on the front panel of the amplifier.

## 5.5. Power Connection

Once all audio connections are made, connect the power cable to the amplifier's power input and then to a standard AC power outlet.

## 6. OPERATING INSTRUCTIONS

### 6.1. Power On/Off



Press the **POWER** button on the front panel of the amplifier or on the remote control to turn the unit on or off.

## 6.2. Source Selection

Use the input selector buttons on the front panel (e.g., USB, SD, AUX, Bluetooth, CD, DVD, Source) or the remote control to choose your desired audio source.



Image 6.2.1: Available input sources for the amplifier.

## 6.3. Bluetooth Pairing

1. Select **Bluetooth** as the input source on the amplifier. The display will show "BLUE" or a similar indicator.
2. On your mobile device, enable Bluetooth and search for available devices.
3. Select "Technical Pro" or a similar name from the list to pair.
4. Once paired, you can stream audio from your device to the amplifier.

## 6.4. USB/SD Playback

Insert a USB drive or SD card containing MP3, WAV, or WMA audio files into the respective slots on the front panel. The amplifier will automatically switch to the USB or SD source and begin playback.

## 6.5. Volume and Tone Controls

- **MASTER VOLUME:** Adjusts the overall output volume of the system.
- **BASS/TREBLE:** Adjusts the low and high frequency response of the audio.
- **BALANCE:** Adjusts the left/right channel balance.

## 6.6. Microphone Usage

- **MIC VOL:** Adjusts the volume of the connected microphones.
- **MIC BASS/TREBLE:** Adjusts the tone of the microphone input.
- **MIC ECHO:** Adds an echo effect to the microphone input.

## 6.7. Remote Control

The included wireless remote control allows for convenient operation of power, input selection, volume, and other functions from a distance.

# 7. MAINTENANCE

- **Cleaning:** Regularly wipe the amplifier and speakers with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Ventilation:** Ensure that the amplifier's ventilation openings remain clear of dust and obstructions to prevent overheating.
- **Cable Management:** Periodically check all cable connections to ensure they are secure and free from damage.

# 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable not connected; Power outlet faulty; Amplifier fuse blown	Check power cable connection; Try a different outlet; Contact service for fuse replacement.
No sound from speakers	Incorrect input source selected; Speaker wires disconnected or incorrect polarity; Speaker volume too low; Amplifier in protection mode	Select correct input source; Check all speaker wire connections and polarity; Increase master volume; Turn off amplifier, wait a few minutes, then restart.
Bluetooth connection issues	Device not in pairing mode; Amplifier not in Bluetooth mode; Interference	Ensure amplifier is in Bluetooth mode; Put device in pairing mode; Move device closer to amplifier; Restart both devices.
Microphone not working	Microphone cable not connected; MIC VOL too low; Faulty microphone or cable	Check microphone cable connection; Increase MIC VOL; Test with another microphone or cable if available.

# 9. SPECIFICATIONS

## 9.1. Hybrid Amplifier (H12X500UBT)

- **Power Output:** 6000 Watts (Peak)
- **Channels:** 6-zone, 12-speaker support
- **Bluetooth:** Version 2.0
- **Inputs:** USB, SD Card, AUX, RCA (CD, DVD, Source), 2 x 1/4" Microphone
- **Tuner:** AM/FM Digital
- **Controls:** Master Volume, Bass, Treble, Balance, Mic Volume, Mic Bass, Mic Treble, Mic Echo
- **Dimensions:** Approximately 19 inches (W) x 12.6 inches (D) x 4.3 inches (H)
- **Weight:** Approximately 53 pounds (Total Kit Weight)

## 9.2. In-Wall/In-Ceiling Speakers

- **Speaker Type:** 2-Way In-Ceiling/In-Wall
- **Woofer Size:** 6.5 inches
- **Max Power:** 200 Watts (Each)
- **Impedance:** 4-8 Ohm
- **Frequency Response:** 60Hz-20KHz
- **Sensitivity:** 90dB
- **Voice Coil:** 1.0 inch (High-temperature)
- **Magnet:** 10oz
- **Outside Diameter:** 9 inches
- **Total Height:** 3.1 inches
- **Mounting Depth:** 2.9 inches
- **Cut-out Diameter:** 7.6 inches

## 9.3. Speaker Wire

- **Gauge:** 16 Gauge
- **Length:** 500 feet (152.4 meters)
- **Conductors:** 2 (Copper Clad Aluminum - CCA)
- **Jacket:** Translucent PVC
- **Features:** High Performance Multi Twist stranded wires, Polarity indicator (black line)

## 9.4. Wired Microphones

- **Type:** Dynamic
- **Construction:** Durable Steel
- **Cable:** 10 ft XLR to 1/4" (6.35mm)
- **Frequency Range:** 50Hz-15kHz
- **Directional Pattern:** Cardioid
- **Impedance:** 600 Ohm
- **Sensitivity:** -72dB  $\pm$  3dB






## 10. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the documentation provided with your purchase

or visit the official Technical Pro website. Keep your proof of purchase for any warranty claims.

## Related Documents - KTHM12X65

 <p>Technical Pro Professional Karaoke Amplifier with USB &amp; SD Card &amp; Bluetooth Inputs User Manual for MM2000BT</p>	<p><a href="#">Technical Pro MM2000BT Professional Karaoke Amplifier User Manual</a></p> <p>User manual for the Technical Pro MM2000BT Professional Karaoke Amplifier with USB &amp; SD Card &amp; Bluetooth Inputs. This guide covers front panel and rear panel connections, operation, and troubleshooting.</p>
 <p>Technical Pro OPERATING MANUAL HYBRID AMPLIFIER</p>	<p><a href="#">Technical Pro Hybrid Amplifier Operating Manual</a></p> <p>Comprehensive operating manual for the Technical Pro Hybrid Amplifier (models HB1502U, HB2502U, HB3502U), detailing features, safety precautions, front and rear panel controls, remote functions, and connection guidance.</p>
 <p>Technical Pro Professional Hybrid Amplifier with USB &amp; SD Card Inputs Bluetooth® Compatibility User Manual for H1502UrBT &amp; H2502UrBT &amp; H3502UrBT</p>	<p><a href="#">Technical Pro Hybrid Amplifier User Manual (H1502UrBT, H2502UrBT, H3502UrBT)</a></p> <p>Comprehensive user manual for the Technical Pro H1502UrBT, H2502UrBT, and H3502UrBT Professional Hybrid Amplifiers. This guide covers front panel controls, rear panel connections, remote operation, audio sources, speaker setup, Bluetooth connectivity, microphone usage, and safety precautions.</p>
 <p>Technical Pro POWER65 6500W 2U Professional 2-Channel Power Amplifier</p>	<p><a href="#">Technical Pro POWER65 6500W 2U Professional 2-Channel Power Amplifier</a></p> <p>Detailed specifications and features of the Technical Pro POWER65, a 6500W 2U professional 2-channel power amplifier. Includes input/output details, performance metrics, physical dimensions, and ordering information.</p>
 <p>Technical Pro H4502HD Digital Hybrid Amplifier/Preamp/Tuner with USB, SD, Bluetooth</p>	<p><a href="#">Technical Pro H4502HD Digital Hybrid Amplifier/Preamp/Tuner with USB, SD, Bluetooth</a></p> <p>Detailed specifications and features of the Technical Pro H4502HD, a 4500-watt peak power digital hybrid amplifier, preamp, and tuner with USB, SD card, and Bluetooth connectivity.</p>

## Technical Pro POWER60 2U Professional 2CH Power Amplifier - Specifications & Overview

Amplifier, featuring 6000 watts peak power, XLR/1/4"/RCA inputs, and robust construction.