Technical Pro TPRX4CH

Technical Pro 1600W 4-Channel Bluetooth Receiver

Model: TPRX4CH

1. INTRODUCTION AND OVERVIEW

The Technical Pro TPRX4CH is a powerful 1600-watt, 4-channel Bluetooth receiver designed for home audio systems, home theaters, and karaoke setups. It offers versatile connectivity options including RCA, USB, SD Card, and AUX inputs, along with two microphone inputs. Featuring a fluorescent display and comprehensive playback controls, this receiver provides high-quality amplified audio for up to eight speakers.

Figure 1.1: Front Panel of the TPRX4CH Receiver

2. KEY FEATURES

- **1600 Watts Peak Power:** Delivers 120W RMS for high-quality amplified audio, suitable for home theater and karaoke.
- **4-Channel Output:** Supports up to 8 speakers simultaneously with dedicated volume control for each channel.
- **Bluetooth Connectivity:** Wireless range of up to 30 feet, compatible with smartphones, tablets, and laptops.
- **Multiple Inputs:** Includes RCA, USB, SD Card, and AUX inputs for diverse audio sources.
- **Dual Microphone Inputs:** Features 1/4" mic inputs with independent volume, echo, and delay controls, plus a Mic Priority switch.
- **EQ Controls:** Rotary knobs for Treble, Bass, and Master Volume adjustments.

- **Digital VFD Display:** Built-in display with AM/FM radio tuner.

- **Front Control Panel:** Intuitive buttons and rotary controls with blue LED illumination for high visibility.

- **Headphone Jack:** Dedicated headphone output with volume control.

- **Protection Features:** Integrated over-current, short-circuit, and over-voltage protection.
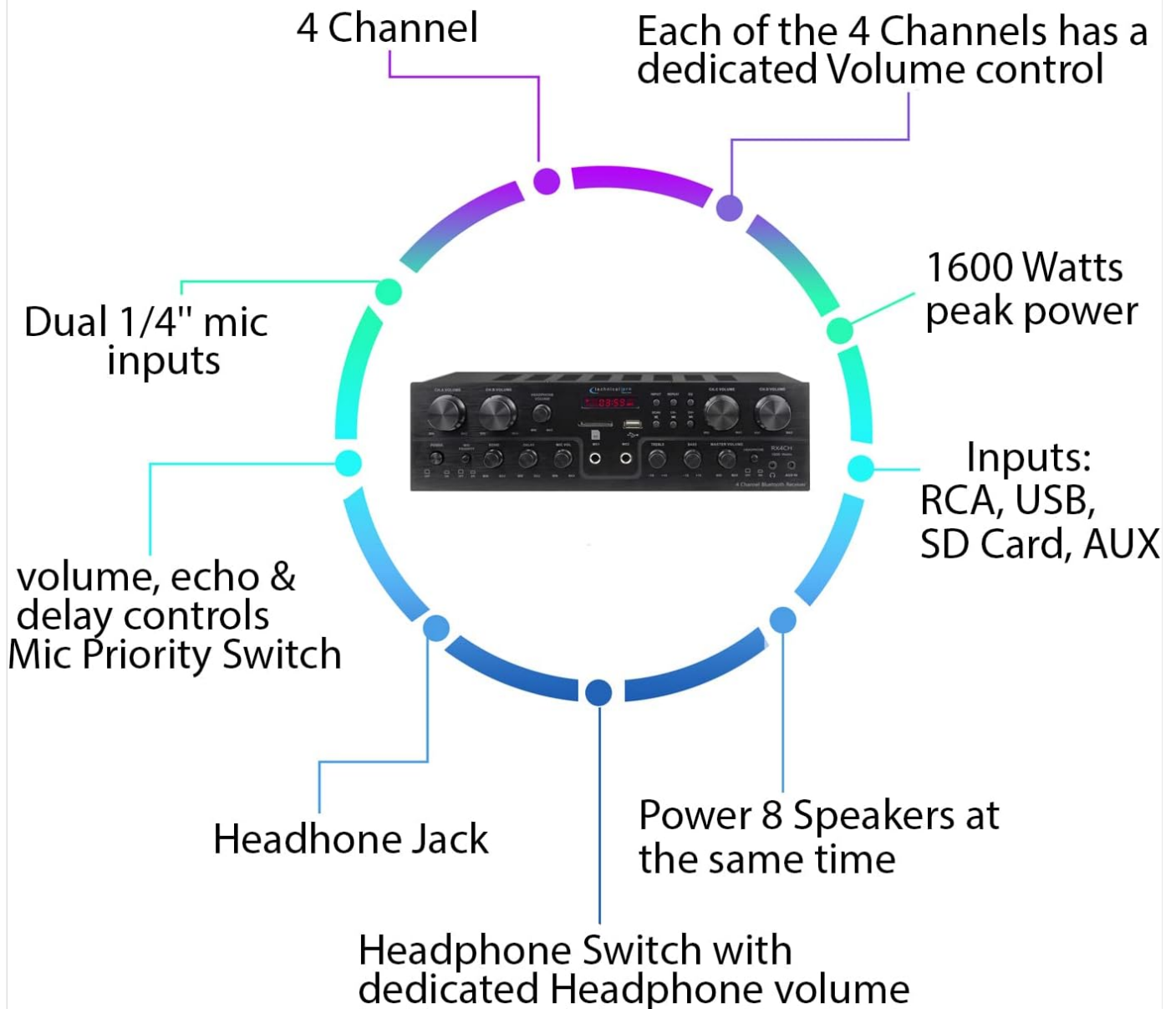

Figure 2.1: Key Features Overview

3. PACKAGE CONTENTS

Please check the box for the following items:

- Technical Pro 1600W 4-Channel Bluetooth Receiver (TPRX4CH)

- Remote Control

- FM Antenna

4. SETUP AND CONNECTIONS

4.1 Rear Panel Overview

Figure 4.1: Rear Panel of the TPRX4CH Receiver

4.2 Connecting Speakers

The TPRX4CH receiver supports up to 8 speakers across 4 channels (A, B, C, D). Connect your speakers to the corresponding speaker terminals on the rear panel. Ensure correct polarity (positive to positive, negative to negative) for optimal sound quality. Each channel (A, B, C, D) has dedicated terminals for two speakers (e.g., Speaker A+ and Speaker A-).

4.3 Connecting Audio Sources

- **RCA Inputs (DVD/LINE):** Use RCA cables to connect external audio devices such as DVD players, CD players, or other line-level audio sources to the 'INPUT' section on the rear panel.

- **USB/SD Card:** Insert a USB flash drive or SD card into the respective slots on the front panel for digital audio playback.

- **AUX Input:** Connect portable audio devices using a 3.5mm AUX cable to the 'AUX IN' jack on the front panel.

Figure 4.2: Device Connectivity Options

4.4 Connecting Microphones

Plug 1/4" microphone cables into the 'MIC1' or 'MIC2' jacks on the front panel.

4.5 Power Connection

Ensure the voltage selector on the rear panel is set to the correct voltage for your region (110V/60Hz or 230V/50Hz). Connect the power cord to the AC inlet on the rear panel and then to a suitable power outlet.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

Press the 'POWER' button on the front panel to turn the unit on or off. The fluorescent display will illuminate when the unit is powered on.

5.2 Input Selection

Use the 'INPUT' button on the front panel to cycle through available audio sources: Bluetooth, USB, SD, AUX, and RCA (DVD/LINE).

5.3 Volume and EQ Controls

- **Channel Volume (CH.A, CH.B, CH.C, CH.D):** Adjust the individual volume for each speaker channel using the dedicated rotary knobs.
- **Master Volume:** Control the overall output volume of the system using the 'MASTER VOLUME' knob.
- **Treble/Bass:** Adjust the high and low frequency response using the 'TREBLE' and 'BASS' knobs to fine-tune your sound.
- **Headphone Volume:** Adjust the volume for connected headphones using the 'HEADPHONE VOLUME' knob.

5.4 Bluetooth Pairing

Select 'Bluetooth' as the input source. On your mobile device (smartphone, tablet, laptop), search for available Bluetooth devices and select 'Technical Pro' or similar from the list. Once paired, you can stream audio wirelessly to the receiver.

5.5 USB/SD Card Playback

Insert a USB drive or SD card with audio files into the respective slot. The receiver will automatically switch to USB/SD mode. Use the 'PLAY/PAUSE', 'PREVIOUS', and 'NEXT' buttons to control playback.

5.6 Microphone Functions (Karaoke)

- **Mic Volume:** Adjust the volume of the connected microphones using the 'MIC VOL' knob.
- **Echo/Delay:** Use the 'ECHO' and 'DELAY' knobs to add effects to the microphone audio for a richer vocal performance.
- **Mic Priority:** Activate the 'MIC PRIORITY' switch to automatically lower the background music volume when a microphone is in use, ensuring vocals are clear and prominent.

Figure 5.1: Built-in Microphone Talk-Over Function

5.7 AM/FM Radio

Extend the FM antenna connected to the rear panel for better reception. Select 'Tuner' or 'Radio' as the input source. Use the 'SCAN' button to automatically search for and save radio stations. Use the 'CH-' and 'CH+' buttons to navigate through saved stations.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the receiver. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure the receiver is placed in a well-ventilated area to prevent overheating. Do not block the ventilation openings.
- **Storage:** If storing the unit for an extended period, disconnect it from power and store it in a cool, dry place.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cord not connected; Power outlet faulty; Unit fuse blown	Check power cord connection; Try a different outlet; Contact service for fuse replacement
No sound output	Incorrect input selected; Speaker wires loose/incorrectly connected; Volume too low; Mute activated	Select correct input; Check speaker connections and polarity; Increase Master Volume; Deactivate mute if applicable
Buzzing noise	Ground loop issue; Interference from other electronics; Faulty cable	Ensure proper grounding; Move unit away from other electronics; Try different audio cables
Bluetooth not connecting	Device too far; Bluetooth not enabled on device; Receiver not in pairing mode	Move device closer to receiver; Enable Bluetooth on your device; Ensure receiver input is set to Bluetooth
USB/SD playback issues	Unsupported file format; Corrupted files; Drive/card not properly inserted	Ensure files are in supported format (e.g., MP3); Reformat drive/card; Reinsert drive/card firmly

8. SPECIFICATIONS

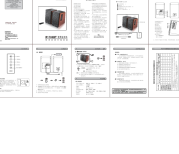| Feature	Specification
Model Number	TPRX4CH
Peak Power Output	1600 Watts
RMS Power Output	120 Watts
Channels	4 Channel (supports 8 speakers)
Connectivity Technology	Bluetooth, RCA, USB 2.0, SD Card, AUX
Bluetooth Range	Up to 30 feet
Microphone Inputs	2 x 1/4" Jacks
Audio Output Mode	Stereo
Special Features	Equalizer, Fluorescent Display, Mic Priority
Product Dimensions	13 x 7.3 x 3.5 inches
Item Weight	1.54 pounds
Color	Black
Manufacturer	Technical Pro
First Available Date	June 16, 2022

Dimensions

Figure 8.1: Product Dimensions

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Technical Pro website. You may also contact Technical Pro customer service directly for assistance with product setup, operation, or troubleshooting beyond the scope of this manual.

Technical Pro Store: Visit the Technical Pro Store on Amazon

Related Documents - TPRX4CH

[AV:Link ABS35 Active Bluetooth Bookshelf Speakers - User Manual & Specifications](#)

Detailed user manual and specifications for the AV:Link ABS35 Active Bluetooth Bookshelf Speakers. Learn about setup, connectivity, remote control functions, and troubleshooting.

[SVEN MK-715 Wireless Microphones Set User Manual](#)

User manual for the SVEN MK-715 Dual Channel Wireless Microphone Set, providing setup, safety precautions, and technical specifications for home use, online communication, and language learning.

[Philips HTS3156/98 DVD Home Theater System: Features and Specifications](#)

Explore the Philips HTS3156/98 DVD home theater system, featuring 300W sound, USB Direct playback, DivX Ultra Certified, Karaoke Scoring, DTS, and Dolby Digital surround sound. Get detailed specifications and product highlights for this home entertainment system.

[Technical Pro MM2000BT Professional Karaoke Amplifier User Manual](#)

User manual for the Technical Pro MM2000BT Professional Karaoke Amplifier with USB & SD Card & Bluetooth Inputs. This guide covers front panel and rear panel connections, operation, and troubleshooting.

[Edifier R1700BT Multimedia Speaker User Manual](#)

Comprehensive user manual for the Edifier R1700BT multimedia speakers, covering setup, operation, safety information, troubleshooting, and specifications. Includes Bluetooth connectivity and wired input options.

[Philips HTS3181 DVD Home Theater System: Features & Specifications](#)

Detailed overview of the Philips HTS3181 DVD Home Theater System, highlighting its spectacular surround sound, DivX Ultra Certified playback, Advanced Class D Amplifier, Karaoke Scoring, and comprehensive connectivity options.