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Seventour P48E

Seventour P48E DSP Car Audio Digital Signal Processor User Manual

Model: P48E

1. Product Overview

The Seventour P48E is an advanced Digital Signal Processor (DSP) designed to enhance your car audio experience. It integrates a powerful amplifier, a 31-band graphic equalizer, and multiple input/output channels, providing comprehensive control over your vehicle's sound system. This manual provides detailed instructions for setup, operation, and maintenance.

What's in the Box

The package includes the following components:

- Digital Sound Equalizers amplifier car audio (P48E Unit)
- Wired Controller
- Power + RCA cable
- USB PC tuning data cable
- Velcro for Fixing

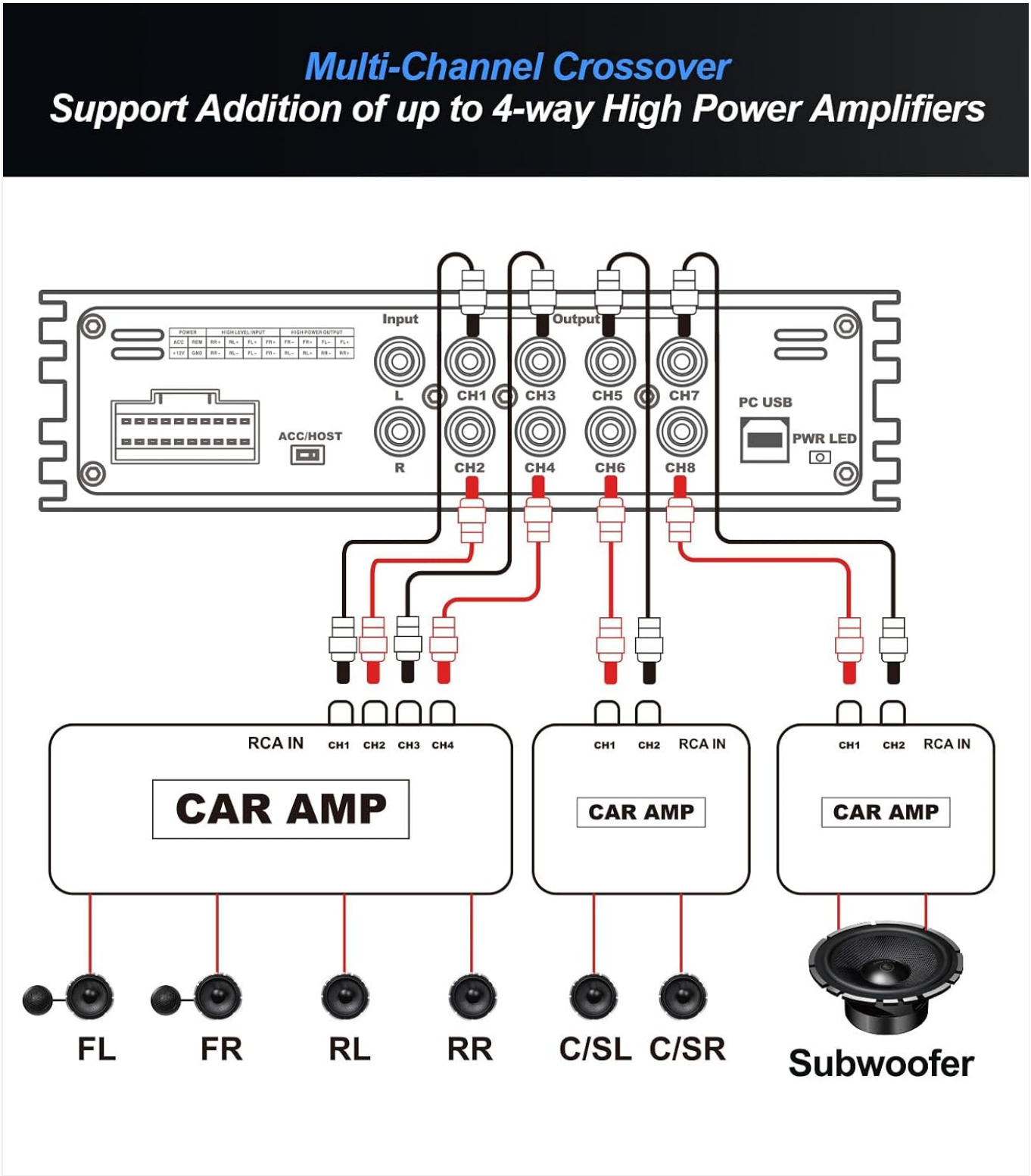


Figure 1: P48E Package Contents. Includes the main DSP unit, wired controller, power/RCA cables, USB data cable, and velcro for secure mounting.

2. Setup and Installation

Proper installation is crucial for optimal performance. It is recommended to have this unit installed by a professional car audio technician.

2.1 Wiring Diagram

The P48E supports both high-level and low-level inputs and offers 8-channel outputs. Refer to the diagram below for connection details.

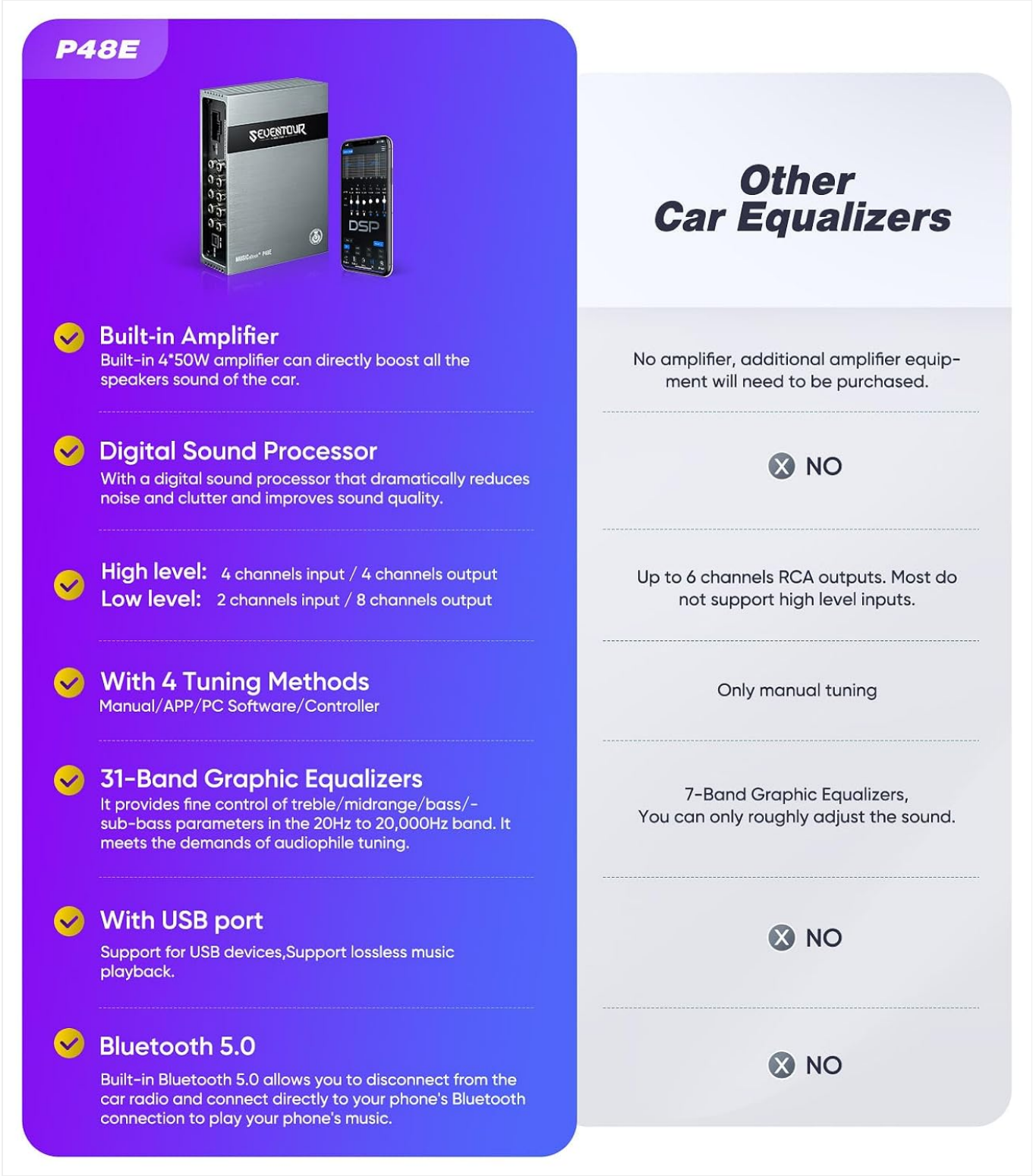


Figure 2: P48E Wiring Diagram. This diagram illustrates the connections for power, high-level inputs from the OEM car stereo, and RCA outputs to external amplifiers and speakers (FL, FR, RL, RR, C/SL, C/SR, Subwoofer).

Important: Double-check all wiring connections before powering on the unit to prevent damage.

2.2 Mounting Options

The compact design of the P48E allows for flexible mounting. Common locations include the storage box or under the seat.

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Seventour P48E Car Audio Equalizer built-in Amplifier

Video 1: P48E Installation Overview. This video demonstrates the physical installation process, including wiring and potential mounting

locations such as the storage box or under the seat.

Ensure the mounting location provides adequate ventilation to prevent overheating.

3. Operating the P48E

The P48E offers four primary methods for tuning and control:

3.1 Manual Knob Tuning

For quick adjustments, the P48E features physical knobs for fine-tuning. First, switch the unit to manual mode using a thin wire to press the mode switch button. Then, adjust the individual knobs for Treble, Midrange, Bass, and Subwoofer.



Figure 3: Manual Tuning Interface. Use a thin wire to switch to manual mode, then adjust the individual knobs for precise sound control.

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Seventour P48E DSP Car Audio Equalizer built in Amplifier

Video 2: Manual Knob Tuning Demonstration. This video illustrates how to switch to manual mode and adjust the sound parameters using the physical knobs on the P48E unit.

3.2 APP Wireless Tuning

The P48E can be wirelessly controlled via a dedicated smartphone application (Bluetooth 5.0). This method provides a visual interface for detailed adjustments.



Figure 4: APP Wireless Tuning. The smartphone app allows for comprehensive sound customization, including 31-band EQ adjustments and other audio parameters.

To use the APP, ensure the P48E is switched to PC mode first (as the APP connects via the PC interface). Then, connect your smartphone via Bluetooth and open the DSP application.

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Seventour P48E DSP Car Audio Equalizer built in Amplifier

Video 3: APP Wireless Tuning Demonstration. This video shows how to connect your smartphone to the P48E via Bluetooth and use the dedicated app to adjust various audio settings, including the 31-band equalizer.

3.3 Wired Controller Tuning

The optional wired controller provides convenient access to common settings and input selection without needing a smartphone or PC.

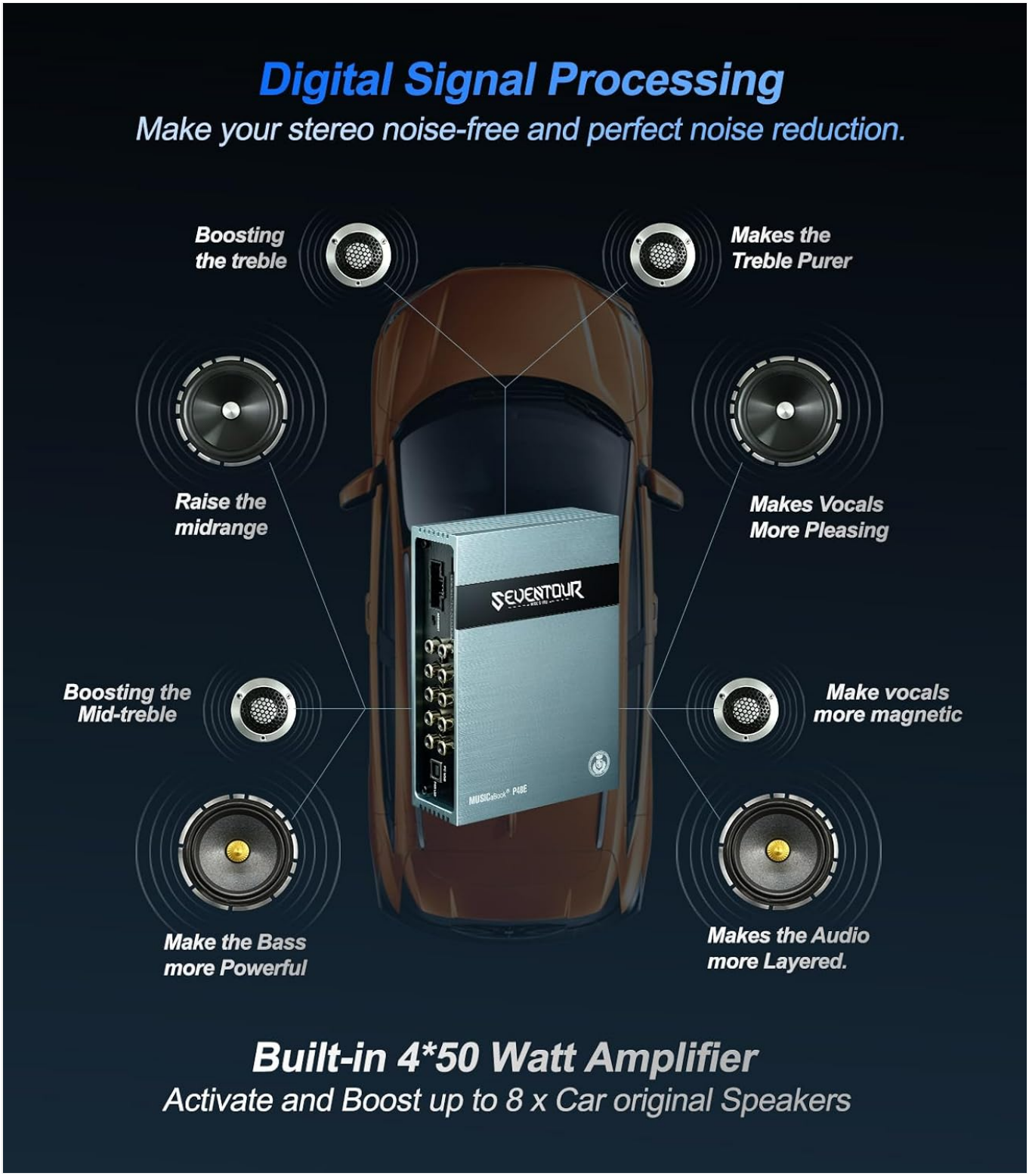


Figure 5: Wired Controller. The wired controller allows for quick adjustments of settings like brightness, language, mode switching, and basic audio parameters.

Connect the wired controller to the "Controller" port on the P48E. Use the buttons and knob to navigate menus and adjust settings such as input source, volume, and preset EQ modes.

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Video 4: Wired Controller Tuning Demonstration. This video shows how to connect and operate the wired controller to select input sources, adjust volume, and modify basic audio settings.

3.4 PC Software Tuning

For advanced audiophile-grade tuning, connect the P48E to a computer using the provided USB cable and utilize the dedicated PC software. This allows for precise 31-band EQ adjustments and detailed channel control.

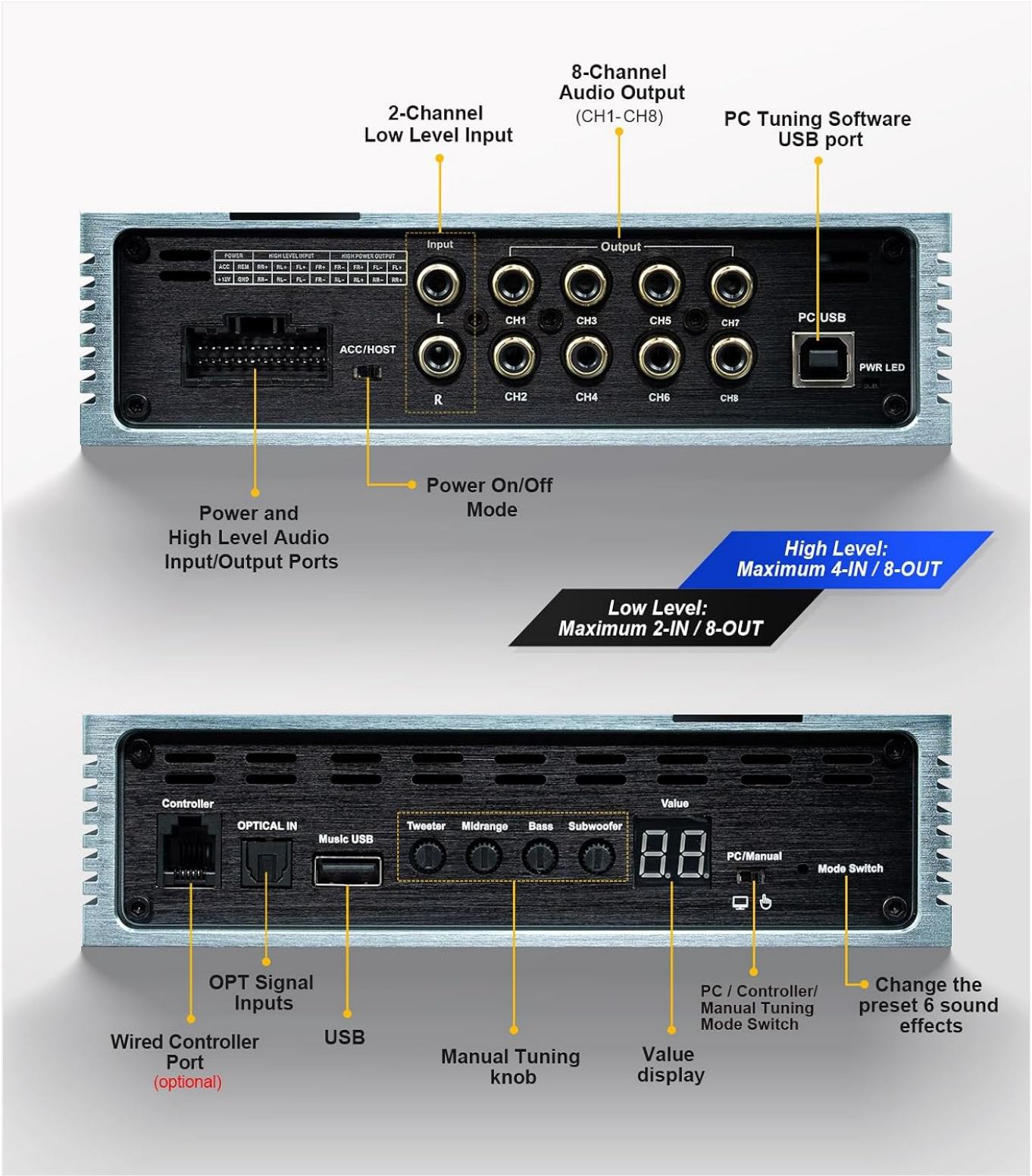


Figure 6: PC Software Interface. The PC software provides a comprehensive interface for 31-band EQ adjustments, time alignment, and other advanced audio tuning features.

Ensure the P48E is switched to PC mode before connecting the USB cable to your computer. The software provides a visual representation of the frequency response, allowing for precise adjustments to individual bands, crossovers, and time alignment.

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Seventour P48E DSP Car Audio Equalizer built in Amplifier

Video 5: PC Software Tuning Demonstration. This video shows how to connect the P48E to a laptop and use the PC software for

advanced 31-band equalization and sound optimization.

4. Specifications

Feature	Detail
Product Dimensions	6.5 x 5.1 x 1.7 inches; 3.62 Pounds
Item Model Number	P48E
Manufacturer	seventour
Voltage	14 Volts
Maximum Supply Voltage	14 Volts
Minimum Supply Voltage	12 Volts
Amplifier Chip	Built-in TDA7850 Amplifier Chip
Peak Power	4*50 Watts
Noise Ratio	≥90dB
THD	≤0.01%
Sampling Rate	48Khz/24bit
Equalizer Bands	31-Band Graphic Equalizers (20Hz~20000Hz)
Audio Inputs	High Level: 4 Channels; Low Level: 2 Channels AUX; Optical Input; USB
Audio Outputs	High Level: 8 Channels; Low Level: 8 Channels
Bluetooth	Built-in wireless Bluetooth 5.0

5. Maintenance

To ensure the longevity and optimal performance of your Seventour P48E DSP, follow these general maintenance guidelines:

- **Cleaning:** Regularly wipe the unit with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure the unit's heat sinks and ventilation openings are clear of obstructions. Proper airflow is essential to prevent overheating.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **Cable Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.

6. Troubleshooting

If you encounter issues with your P48E DSP, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No sound output	Incorrect wiring; Unit not powered on; Incorrect input selected; Volume too low.	Verify all power and audio connections are secure. Check the PWR LED indicator on the unit. Ensure the correct input source (High Level, Low Level, Bluetooth, Optical, USB) is selected on the controller or app. Increase the volume level.
Distorted or poor sound quality	Improper EQ settings; Gain levels too high; Speaker impedance mismatch; Damaged cables.	Reset EQ settings to default or adjust carefully using the app/PC software. Lower the gain levels on the P48E and connected amplifiers. Ensure speakers are compatible with the amplifier's output impedance. Inspect audio cables for damage and replace if necessary.
Bluetooth connection issues	P48E not in PC mode; Bluetooth not enabled on device; Interference.	Ensure the P48E is switched to PC mode for APP control. Verify Bluetooth is enabled on your smartphone and the P48E is discoverable. Move away from other wireless devices that may cause interference. Try restarting both the P48E and your smartphone.
Optical input audio lag	Inherent processing delay.	While some delay may be inherent to digital processing, ensure the optical cable is securely connected and undamaged. If significant, consider using alternative input methods (e.g., high-level or low-level RCA) if timing is critical for your setup.

7. Warranty and Support

Seventour is committed to providing high-quality products and excellent customer service.

- **Product Replacement:** We promise to replace the product with a new one if there is any product quality issue within 6 months of purchase.
- **Free Repair:** The product will be repaired without any charge within 1 year of purchase for quality-related issues.
- **Contact Support:** For professional after-sales support, please contact us via email. We aim to reply to every customer's email within 12 hours.

Customer Service Email: help@seventour.vip
Customer Service Phone: +1 833 853 8881

Figure 7: Seventour Company Information. Dedicated to automotive electronics development and innovation.



Figure 8: Seventour Service Support. Details on return policy, replacement, repairs, and contact information.

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