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› DS18 DSP8.8BT 8-Channel Digital Sound Processor User Manual

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DS18 DSP8.8BT Digital Sound Processor User Manual

Model: DSP8.8BT

1. INTRODUCTION

The DS18 DSP8.8BT is an advanced 8-channel in and 8-channel out digital sound processor designed to give you precise control over your vehicle's audio system. With Bluetooth connectivity and a user-friendly application, fine-tuning your sound has never been easier. This manual provides essential information for installation, operation, and maintenance of your DSP8.8BT.



Front view of the DS18 DSP8.8BT Digital Sound Processor.

Official product video showcasing the DS18 DSP8.8BT Digital Sound Processor and its features.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. Ensure all connections are secure and correctly routed to avoid damage to the unit or your vehicle's electrical system.

2.1 Physical Connections

- **Power Supply:** Connect the unit to a stable 9-16 VDC power source.
- **Remote Input:** Connect the remote input to your head unit's remote output for automatic turn-on.
- **Audio Inputs:** The DSP8.8BT supports up to 8 channels of high/low-level input. Use the provided harness for connections.
- **Audio Outputs:** Utilize the 8 RCA outputs to connect to your amplifiers.
- **USB Interface:** A Type-C USB port is available for updates and direct connection.



Detailed view of the DSP8.8BT's input harness connector, turn-on mode selector, USB interface, power/BT/update LEDs, input gain controls, and output harness connector.

2.2 Software Installation & Bluetooth Pairing

The DSP8.8BT is controlled via a dedicated application available on the App Store (iOS) and Google Play (Android). Search for "DSP8.8BT Application" to download and install.

1. Download and install the DSP8.8BT Application on your smartphone or tablet.
2. Ensure the DSP8.8BT unit is powered on.
3. Open the application and follow the on-screen prompts to pair your device via Bluetooth.

3. OPERATING INSTRUCTIONS

The DSP8.8BT application provides comprehensive control over your audio system's sound processing. Familiarize yourself with the app's interface to unlock the full potential of your unit.

3.1 Audio Adjustment Features

- **Equalization:** Utilize the 31-band graphic equalizer to fine-tune frequencies.
- **Crossover:** Adjust high-pass and low-pass filter frequencies and slopes (6 to 48 dB/octave) for each channel independently.
- **Gain Control:** Adjust input gain for each channel to match your source unit's output.
- **Time Alignment:** Adjust audio delay on each channel for precise sound staging.
- **Phase Control:** Adjust signal phase on each channel (0/180 degrees).
- **Input Summing:** Combine multiple input signals for complex system configurations.



Easy to use software found on Google Play or the App Store to fine tune and monitor every aspect of your signal processing.



A user interacting with the DSP8.8BT application on a smartphone to adjust sound settings.

3.2 Presets

The application allows you to save multiple user-defined presets for different listening preferences or music genres. Factory presets like POP, Dance, Rock, Classic, Vocal, and Bass are also available.

4. MAINTENANCE

To ensure the longevity and optimal performance of your DS18 DSP8.8BT, follow these simple maintenance guidelines:

- Keep the unit clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the unit to extreme temperatures, moisture, or direct sunlight.
- Ensure proper ventilation around the unit to prevent overheating.

- Regularly check all wiring connections for tightness and signs of wear.

5. TROUBLESHOOTING

If you encounter issues with your DSP8.8BT, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power	Loose power connection, blown fuse, incorrect wiring.	Check power and ground connections. Verify fuse integrity (2 Amp). Ensure remote turn-on is connected and receiving signal.
No Sound Output	Incorrect input/output connections, low gain settings, app settings.	Verify RCA and speaker wire connections. Check gain levels in the app and on the unit. Ensure correct input summing and output routing in the app.
Bluetooth Disconnection	Out of range, interference, app issue.	Ensure your device is within range. Restart the app and the DSP8.8BT unit. Try re-pairing the Bluetooth connection.
Distorted Sound	Input sensitivity too high, incorrect EQ settings, faulty wiring.	Adjust input sensitivity (0.2 - 9V). Reset EQ settings to flat and re-adjust. Inspect wiring for shorts or damage.

If the problem persists after attempting these solutions, please contact DS18 customer support.

6. SPECIFICATIONS

Category	Specification	Value
Power Supply	Working Voltage	9 – 16 VDC
	Remote Input Voltage	9 - 16V
	Fuse Size	2 Amp
Audio	THD + N	<1%
	Frequency Response	20Hz-20KHz (+/- 0.5dB)
	Signal to Noise Ratio @ A Weighted	>100dB
	Input Sensitivity	0.2 - 9V
	Maximum Pre-Out Level (RMS)	8V
	Crossover Frequency	Variable HPF/LPF 20Hz to 20KHz
	Crossover Slope	Selectable 6/12/18/24/36/48 dB/Oct

Category	Adjustment	Specification	Value
		Equalization	31 Bands Parametric
		Q Factor	Selectable 0.05 to 20
		EQ Presets	Yes (POP/Dance/Rock/Classic/Vocal/Bass)
Signal Processing		DSP Speed	147 MIPS
		DSP Precision	32-Bit
		DSP Accumulators	72-Bit
DAC		Precision	24-Bit
		Dynamic Range	108dB
		THD + N	-98dB
ADC		Precision	24-Bit
		Dynamic Range	105dB
		THD + N	-98dB
Input Output		High / Low Level Input	Up to 8 channel
		Low Level Output	Up to 8 Channel
		Type	RCA (Female)
Dimensions		Length	6.37"/162 mm
		Depth	3.6"/91.5 mm
		Height	1.24"/31.7 mm

7. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the product packaging or the official DS18 website. For further assistance or technical support, you can contact DS18 customer service.

You can also download the full user manual in PDF format for more detailed instructions [Download User Manual \(PDF\)](#)

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Model number, symptoms, what you tried, or the section of the manual you are using.

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