Manuals+ — User Manuals Simplified.

DS18
DSP4.8BTM
Digital
Sound
Processor

DS18 DSP4.8BTM Digital Sound Processor Owner's Manual

Contents

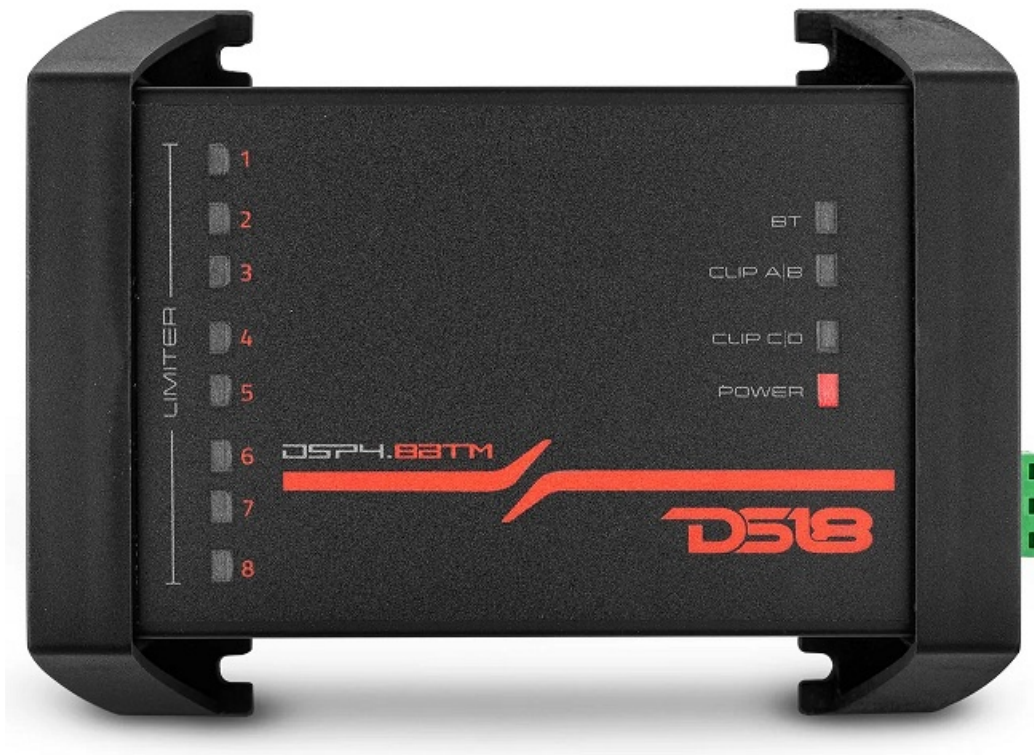**DS18 DSP4.8BTM Digital Sound Processor**

Product Usage Instructions

1. Installation:

1. Download the app from the Google Play Store or Apple Store.
2. Activate Bluetooth on your Smartphone.
3. Activate the location on your Smartphone.
4. Open the DSP4.8BTM app to display relevant information.

2. Installation Tips:

- Read the entire product manual before installation.
- Disconnect the negative terminal of the battery for safety.
- Keep RCA cables away from power cables to avoid interference.
- Use high-quality cables and connectors to reduce loss and noise.

3. Setting Up:

1. Select the processor and enter the password (default is 0000).
2. To set a new password, enter any password other than 0000.
3. To reset the password, reset the processor to factory defaults.

4. Managing Settings:

Congratulations! You are now connected to your DS18 processor. You can manage your sound system using the app with the following settings:

FAQs

- **Q: What does the Clip LED indicate?**
  - A: The Clip LED indicates that the audio output is reaching its maximum level, causing distortion or activating the limiter.
- **Q: How do I reset the processor?**
  - A: Press and hold the RESET key for 5 seconds to reset all parameters to factory defaults.
- **Q: What is the default password for the processor?**
  - A: The default password is 0000. You can set a new password by entering a different one.

PRODUCT INFORMATION

Congratulations, you have just purchased a product with DS18 quality. Through Engineers with years of experience, critical testing procedures, and a high-tech laboratory we have created a range of high-quality products that reproduce the musical signal with the clarity and fidelity you deserve. To ensure optimal product operation, read thismanual carefully before using the product. Keep the manual in a safe and accessible place for future reference.

ELEMENT'S DESCRIPTION
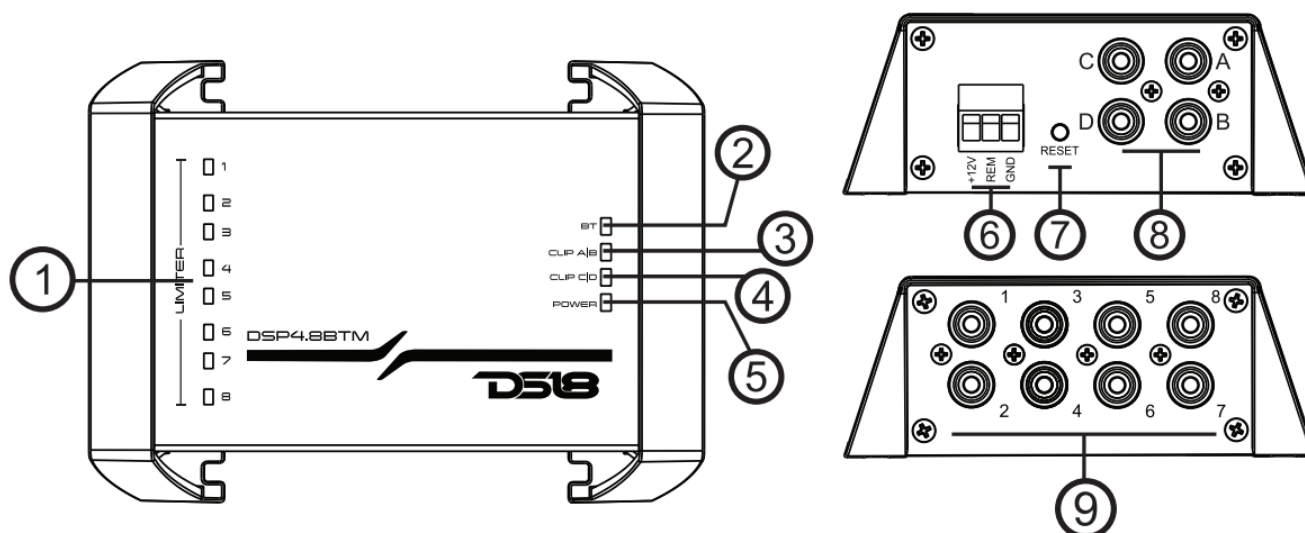
- **Clip LEDs and Output Limiter**
  - When lit, it indicates that the audio output is reaching its maximum level and generating distortion or signal the actuation of the limiter. If the limiter is deactivated then it will function as an output clip, if the limiter is activated it will function both as an output clip and as a limiter indicator.
- **BT Connection Indicator Light**
  - This indicates that the BT device is connected.
- **3/4 Clip Led of A/B and C/D Inputs**
  - When lit, it indicates that audio input is reaching its maximum level.
- **Processor Indicator Led On**
  - When lit, it indicates that the processor is turned on.
- **Power Connector**
  - The connector is responsible for supplying +12V, REM, GND of the processor.
- **RESET Key**
  - Returns all the parameters of the processor to those defined by the factory, to reset, just keep the key pressed for 5 seconds.
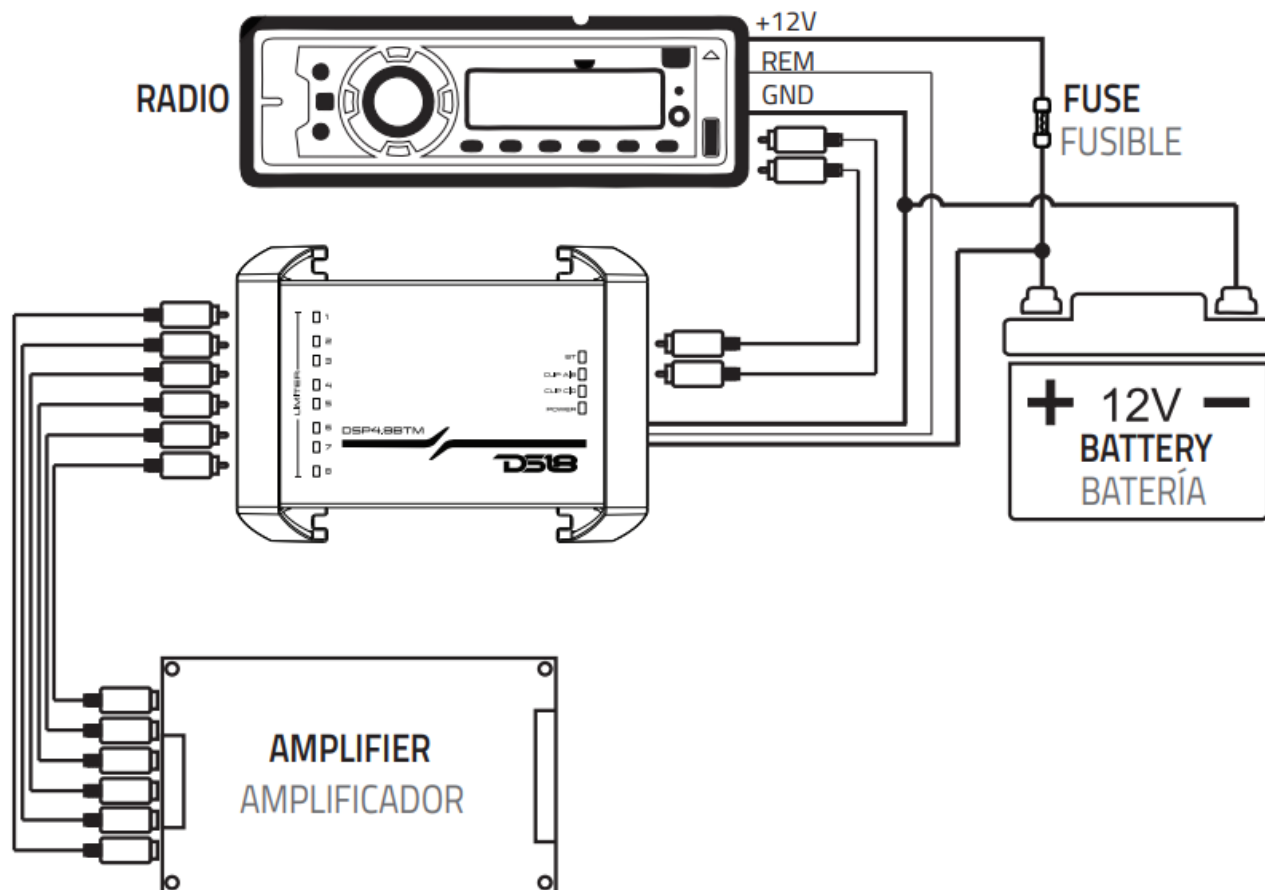
- **Audio Input RCA**
  - Receives high impedance signals from the Player, Mixer, Smartphone, Etc…
- **Audio Output RCA**
  - Sends properly processed signals to the amplifiers.

INSTALLATION

ATTENTION

- Only connect or disconnect the power or signal cables with the processor turned off.
- The Processor has flash memory and can be disconnected from the power supply without losing the settings.

1. Read the entire product manual carefully before beginning installation.
2. For safety, disconnect the negative from the battery before beginning installation.
3. Keep all RCA cables away from power cables.
4. Use high-quality cables and connectors to minimize loss and noise.
5. If the equipment is grounded on the vehicle chassis, scrape all the paint off the grounding point to ensure a good connection.

NOISE PROBLEMS:

1. Check that all equipment in the system is grounded at the same point, in order to avoid ground loops.
2. Check the processor output RCA cables, the shorter and better quality, the lower the noise.
3. Make a correct gain structure, making the gain of the amplifiers as small possible.

4. Use quality cables and keep away from any potential sources of noise.

5. Contact our technical support and/or check the tips on our social networks.

BT CONNECTION

1. Download the app from the Google Play Store or Apple Store.

2. Activate BT on your Smartphone.

3. Activate the location of your Smartphone.

4. Open the DSP4.8BTM app and it will display the following information:

5. Select the processor and enter the password, the factory password is 0000, to set a new password, just enter any password other than 0000.

6. If you want to reset your password, you will need to reset the processor to all factory defaults.
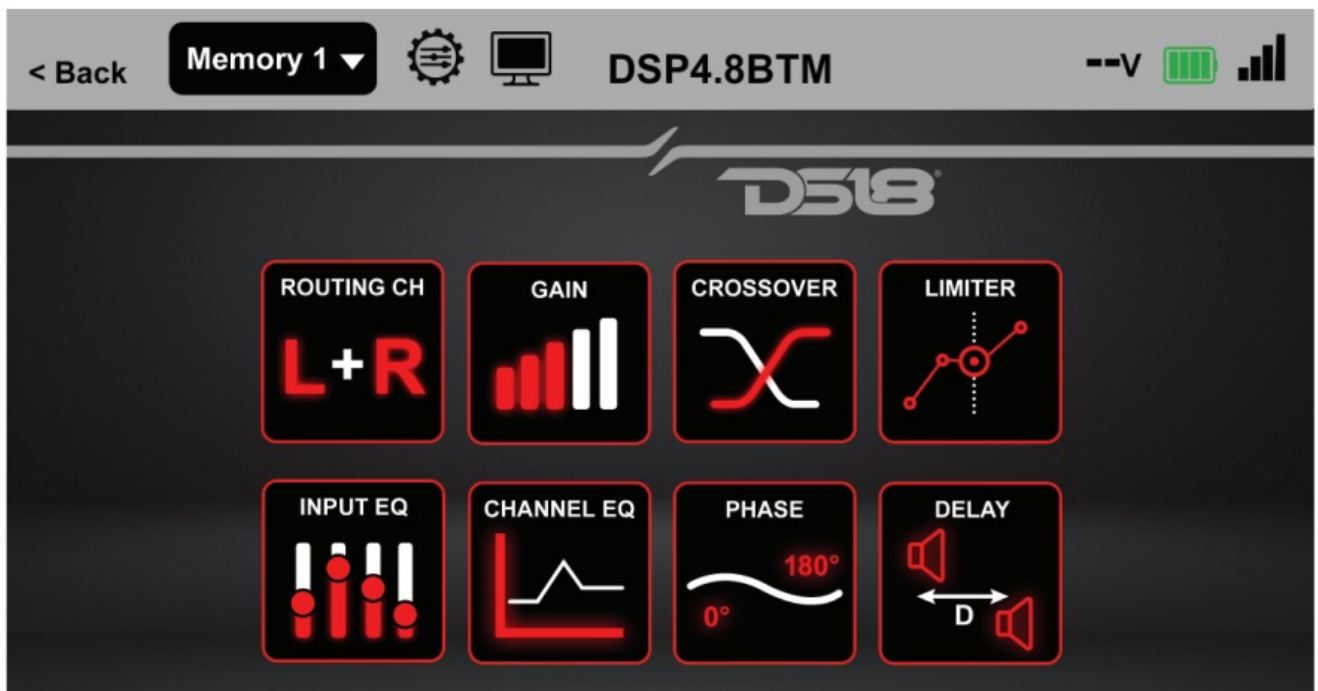
7. Congratulations, you are connected to your DS18 processor, now with a simple and intuitive interface you can manage your sound system completely using the following settings:

- Routing Channel
- General Gain
- Channel Gain
- Frequency Cuts
- Limiter
- Input Equalizer
- Output Equalizer
- Phase Selector
- Time Alignment
- Configurable Memories

- Battery Monitoring
- Limiter Monitoring

Compatible with Android 7 or higher / iOS 13 or higher

SPECIFICATIONS

- **ROUTING CHANNEL**
  - **Routing Options** :……………………………………………………A / B / C / D / A+B / A+C / B+C
- **GAIN**
  - **General Gain** :……………………………………………………………… -53 to 0dB / -53 a 0dB
  - **Channel Gain** …………………………………………………………………-33 to +9dB / -33 a +9dB
- **FREQUENCY CUTS (CROSSOVER)**
  - **Cutoff Frequency** …………………………………………………….20Hz to 20kHz / de 20 Hz a 20 kHz
  - **Types of Cuts** …………………………………………………….. Linkwitz-Riley / Butter worth / Bessel
  - **Attenuations** …………………………………………………………………6 / 12 / 18 / 24 / 36 / 48dB/OCT
- **INPUT EQUALIZER (EQ IN)**
  - **Equalization Bands** ……………………………………………………………. 15 Bands / Bandas
  - **Gain** …………………………………………………………………………………… -12 to +12dB / -12 a +12dB
- **CHANNEL EQUALIZER (EQ CHANNEL)**
  - **Equalization Bands** ………………………8 Parametric per Channel / 8 paramétricas por canal
  - **Gain** …………………………………………………………………………………… -12 to +12dB / -12 a +12dB
  - **Q Factor**
    …………………………………………………………………………………………. 0.6 to 9.9 / 0.6 a 9.9
- **TIME ALIGNMENT (DELAY)**
  - **Time** ………………………………………………………………………………….. 0 to 18,95ms / 0 a 18,95ms
  - **Distance** …………………………………………………………………………….. 0 to 6500mm / 0 a 6500mm
- **LIMITER**
  - **Threshold** ……………………………………………………………………………………-54 to +6dB / -54 a + 6dB
  - **Attack** ………………………………………………………………………………………….1 to 200ms / de 1 a 200ms
  - **Release** …………………………………………………………………………………….. 1 to 988ms / 1 a 988ms
- **POLARITY INVERSION (PHASE**)

- **Phase**
 0
  or 180º / 0 o 180º
- **MEMORIES (PRESETS)**
  - **Memories** .... 3 –
    100% Configurable
- **INPUT A/B/C/D /**
  - **Input Channels**
   4
  - **Type** .... Electronically Symmetrical /
    Electrónicamente Simétrico
  - **Connectors**
    ....
    RCA
  - **Max Input Level** .... 4,00Vrms (+14dBu)
  - **Input Impedance** ....
    100KΩ
- **OUTPUT**
  - **Output Channels**
   8
  - **Connectors**
    ....
    RCA
  - **Type** .... Electronically Symmetrical /
    Electrónicamente Simétrico
  - **Max Input Level** .... 3,50Vrms (+13dBu)
  - **Output Impedance**
    .... 100Ω
- **DSP**
  - **Frequency Response** .... 10Hz to 24Khz (-1dB) / 10 Hz a 24 kHz (-1 dB)
  - **THD+N**..
    <0,01%
  - **Signal Latency**
    .... <0,6ms
  - **Bit Rate**
    ....
    32Bits
  - **Sampling Frequency** ....
    96kHz
- **POWER SUPPLY**
  - **Voltage DC**
    ....10~1
  - **Maximum Consumption**
    ....300mA

- **DIMENSION Height x Length x Depth** ……………..1.6″ x 5.6″ x 4.25″ / 41mm x 142mm x 108mm
  - **Weight**

    ………
    / 9.7Oz

*These typical data may vary slightly. / * Estos datos típicos pueden variar levemente.
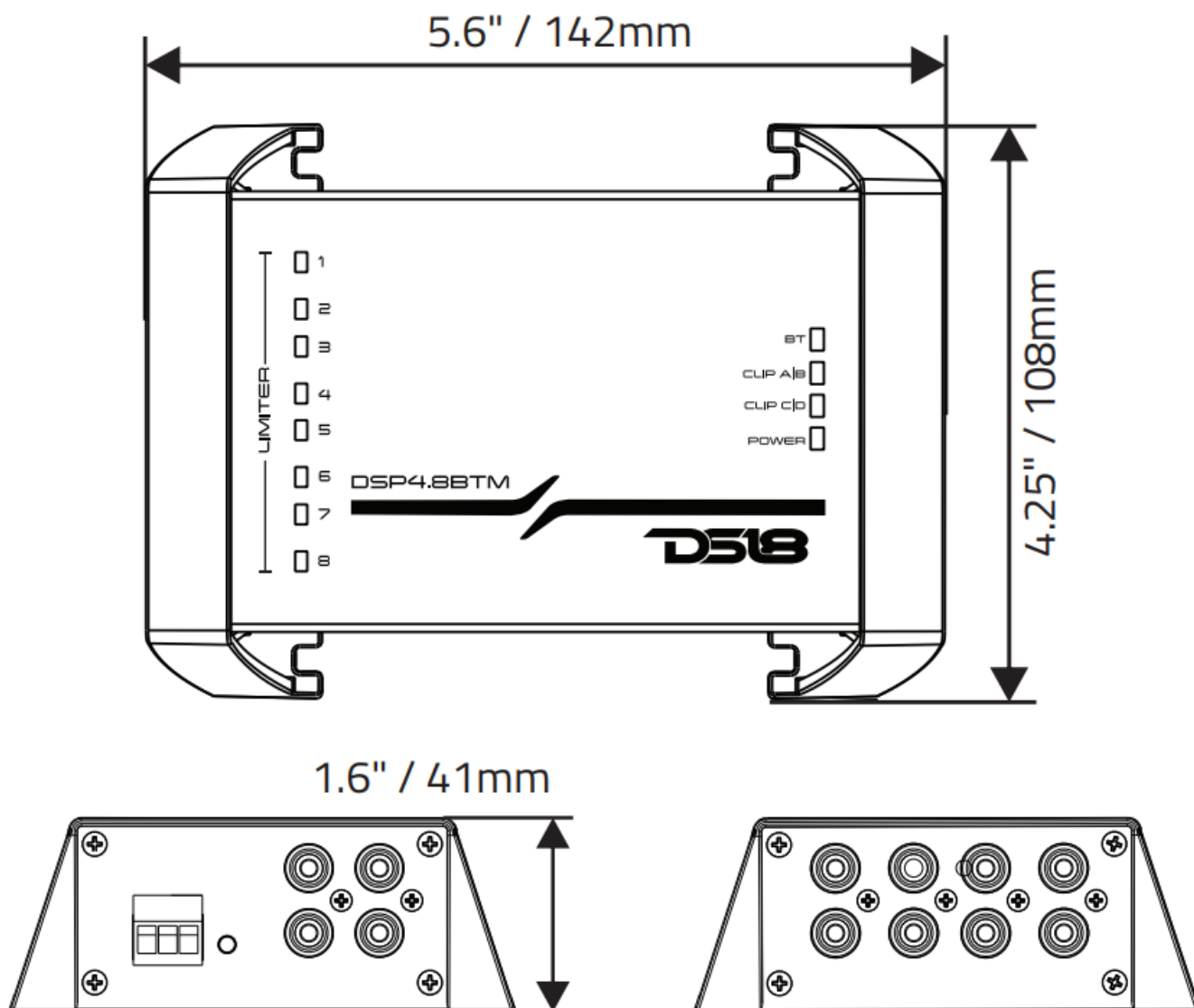
WARRANTY

Please visit our website **DS18.com** for more information on our warranty policy. We reserve the right to change products and specifications at any time without notice. Images may or may not include optional equipment.

Documents / Resources

DS18 DSP4.8BTM Digital Sound Processor [pdf] Owner's Manual
DSP4.8BTM, 408DSP48BT, DSP4.8BTM Digital Sound Processor, DSP4.8BTM, Digital Sound Processor, Sound Processor, Processor

References

- **Official DS18 Pro Audio Store - Speakers, Subwoofers, Amps & More!**

- **User Manual**