Manuals+ — User Manuals Simplified.

AUDIO SYSTEM ADSP10 Digital Signal Processor Owner's Manual

Owner's Manual
Digital Signal Processor

ADSP10

Contents

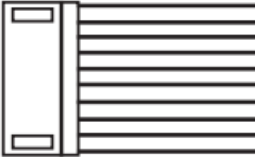## PRODUCT DESCRIPTION-PRECAUTIONARY NOTES

The DSP is a digital signal processor essential to maximize the acoustic performance of your car audio system. It consists of a 32-bit DSP processor and 24-bit AD and DA converters. It can connect to any factory system, even in vehicles featuring an integrated audio processor, since, thanks to the. De-equalization function, the DSP will send back a linear signal. It features selectable High and low-level inputs as well as 3.5MM Aux and digital inputs that feed 8 completely variable output channels. Each output channel has a 31-band equalizer available.it also features a 66-frequency electronic crossover as well as. BUTTERWORTH or LINKWITZ filters with 6-24dB slopes and a digital time delay line. the user can select adjustments. That allows him or her to interact with the DSP through a remote control device called DRC.

WARNING: 1-a PC provided with Windows XP, Windows Vista, or Windows 7 operating system,1.5GHz minimum. Processor speed,1 GB RAM minimum memory, and a graphics card with a minimum resolution. Of 1024×600 pixels are required to install the software and set up the DSP. 2-Before connecting your DSP, carefully read this manual Improper connection may cause damage to The DSP or to the speakers in the car audio system.

PACKAGING CONTENTS

– DSP- Signal Interface Processor	
– Power supply cablelRemotelwifi/Inputs	
– 5.0m USB cable	
– Control High Level Input	
– 4 of 4.0*15 mm self-tapping, Cross-head fixing screws,	

OPTIONAL:

– DRC(Digital Remote Control)control panel:	
– 5.0 m DRC-AC Link cable	

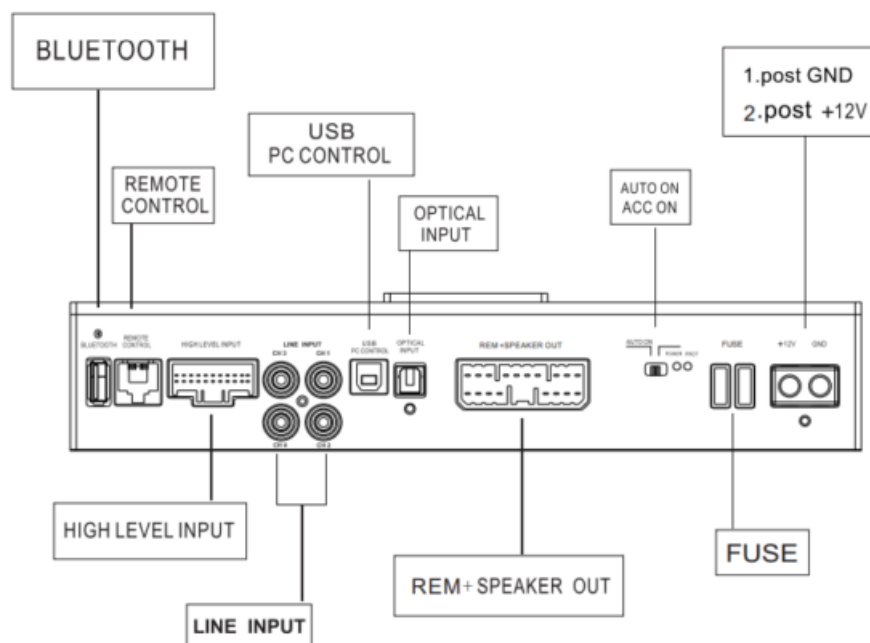## DSP AND DRC INSTALLATION

External dimensions
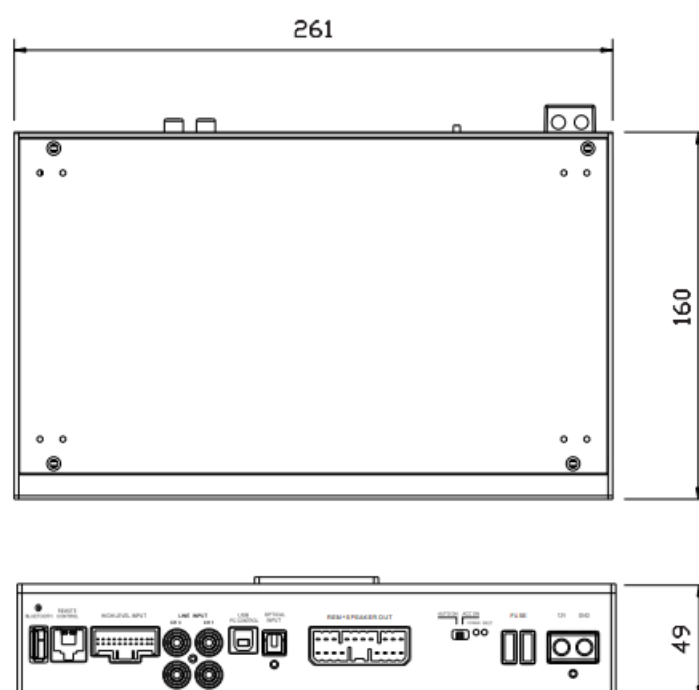
How to install

WARNING: do not use aggressive cleaning agents or abrasive cloth to clean the display. Simply use a soft cotton colth lightly damped with water.

CONNECTION PANELS-DESCRIPTION

SOFTWARE INSTALLATION
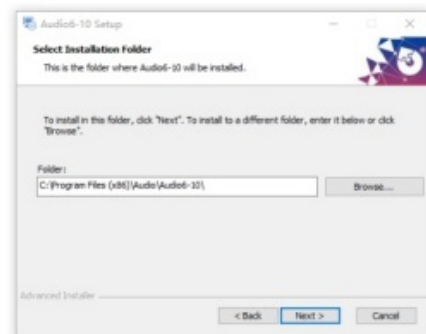
DSP GUI installation
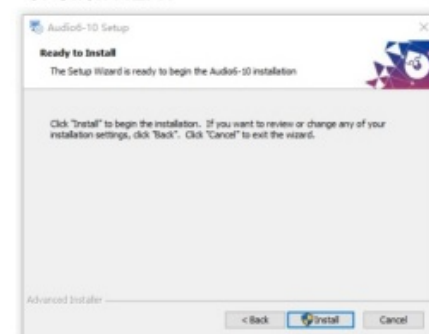
1. Insert CD, Double-Click DSP

文件   主页   共享   查看

> Audio6-10 v0.0.6

名称	修改日期	类型	大小
Audio6-10 v0.0.6	2020/9/24 0:22	应用程序	69,630 KB

★ 快速访问

💻 此电脑

3D 对象

2.Click NEXT

Welcome to the Audio6-10 安装向导

Select the setup language:

English

下一步(N) >   取消

3.Click NEXT

Welcome to the Audio6-10 Setup Wizard

The Setup Wizard will install Audio6-10 on your computer. Click "Next" to continue or "Cancel" to exit the Setup Wizard.

< Back   Next >   Cancel

4.Click NEXT

Select Installation Folder

This is the folder where Audio6-10 will be installed.

To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".

Folder:

C:\Program Files (x86)\Audio\Audio6-10\   Browse....

Advanced Installer

< Back   Next >   Cancel

5. Click NEXT

Ready to Install

The Setup Wizard is ready to begin the Audio6-10 installation

Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.

Advanced Installer

< Back   Install   Cancel

6. Click NEXT

Completing the Audio6-10 Setup Wizard

Click the "Finish" button to exit the Setup Wizard.

< Back   Finish   Cancel

GUI OPERATION INSTRUCTION

Guide to GUI after installation

1. Double-click the icon of DSP-CONTROL

Audio6-10

2. Enter the GUI you long for! Now you could tone every signal detail as experts do To bring sound effects on your beloved car to a higher level.if the password has been set, You need to enter the password.
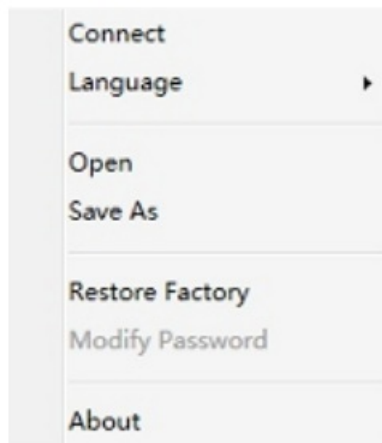

Interface introduction
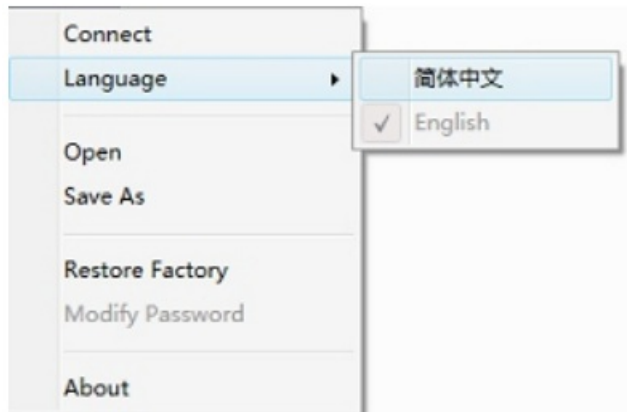
1. DSP interface guidance

2. " FILE" MAIN MENU 1

   1. Connect(connect to the DSP)
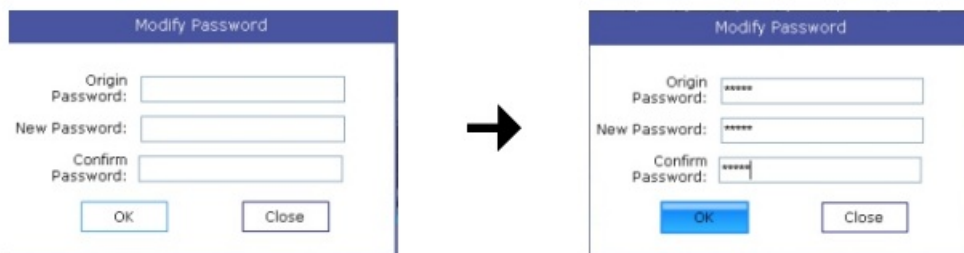
2. Language(choose you needed language)

3. Open(To load the preset file in the PC folder)

4. Save(To save setting to PC)

5. Save as(To save another tile setting to PC)

6. Restore Factory (To save the preset file in DSP)
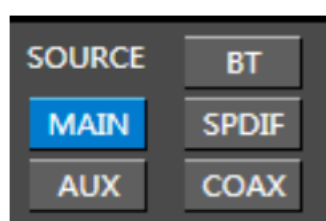
7. Modify Password

8. Read From Device
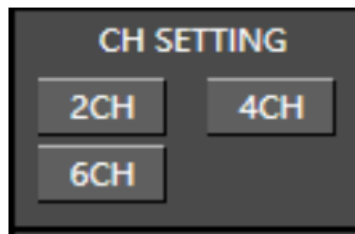
9. About

10. Exit

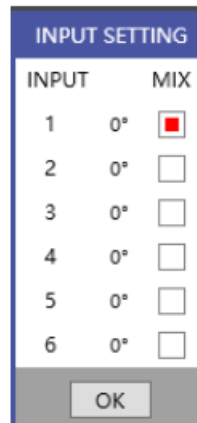3. INPUT MODE.

To select different input devices.

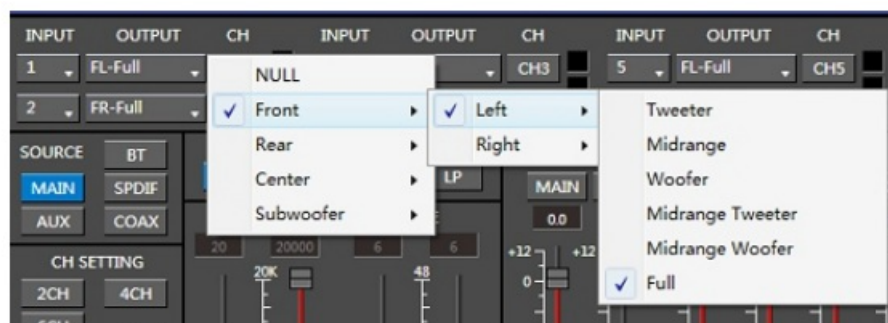4. CHANNEL SETTING.

1. CH mode(2CH 4CH 6CH MIX).

2. Input channel: 1. 2. 3. 4. 5. 6

1. When highlighted red is selected, this channel input is indicated. If two or more are selected, this channel input is indicated

2. 0° Click 0 ° to switch to 180 °, corresponding to the output of this channel

3. Output channel: FL FullRange.FR FullRange. When you click the drop-down button, you can choose the state of the channel input. There is a Null.Front.Rear.Center.Subwoofer and FuII.Tweeter.Mid-T.Midrange. M-WF. Woofer.

Options on the "Link are for combined settings for Left CH and Right CH. Options on the Left CH/right CH allow you to tone each selected channel respectively.
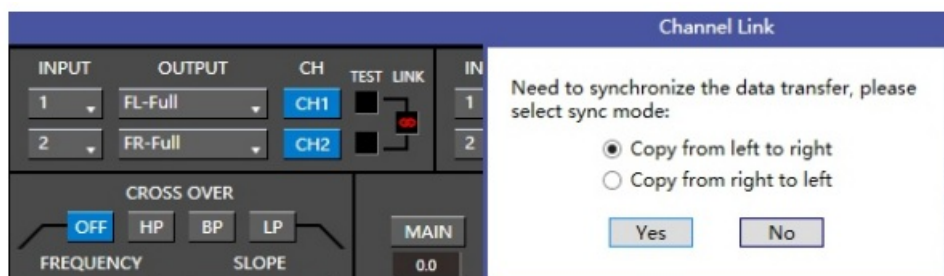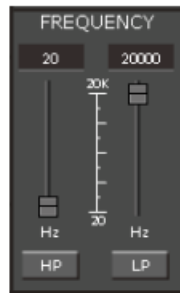

5. CROSSOVER X-TPE.

To choose a different crossover type, for example, select CH selection on the 3RD spot .that would locate CH you want to choose for crossover configuration.

6. CROSSOVER FREQUENCY.
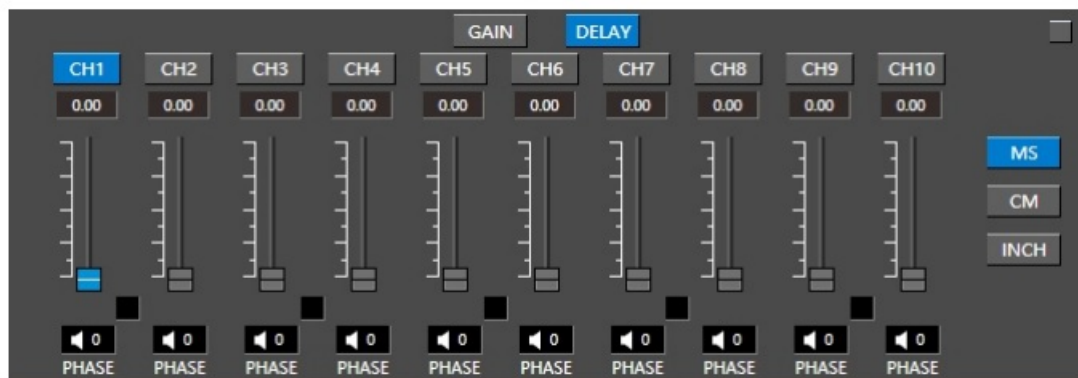
Set frequency of LP/HP individually.

7. GAIN.

0-40dB is the optional range for gain control kf every CH.
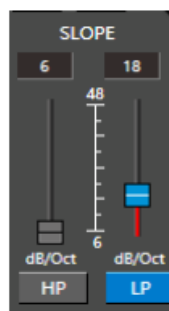

8. DELAY.

1.Autoconfiguration(base on 1.5 setting).

2. Manual configuration, change specifications in selected CH manually.
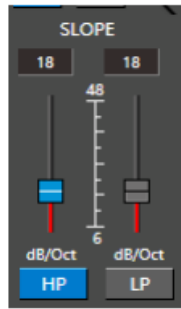

9. LP/SLOPE.

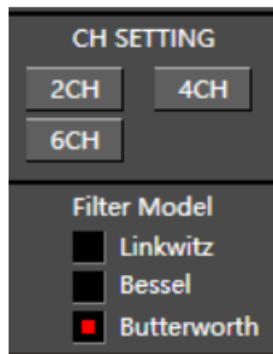1.6d B/oct 12dB/oct 18dB/oct 24dB/oct 30dB/oct 36dB/oct. 42dB/oct 48dB/oct are available.

10. HP/SLOPE.

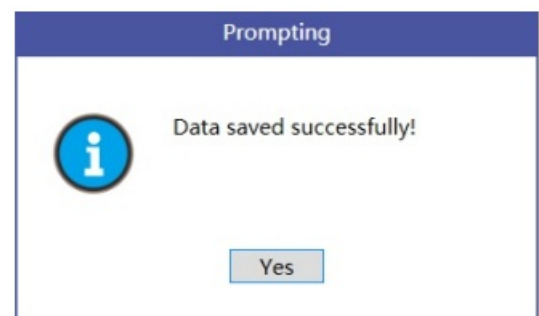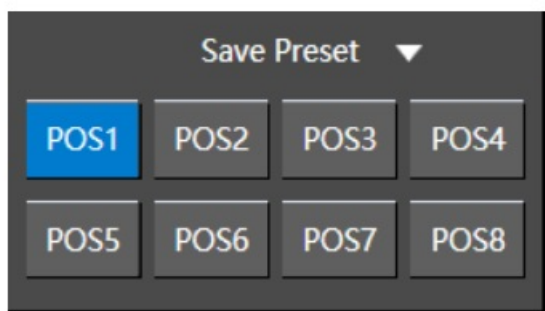1.6dB/oct 12dB/oct 18dB/oct 24dB/oct 30dB/oct 36dB/oct.42dB/oct 48dB/oct are available.

11. Filter Model.

    To choose different Filter type Linkwitz Besse] Butterworth.
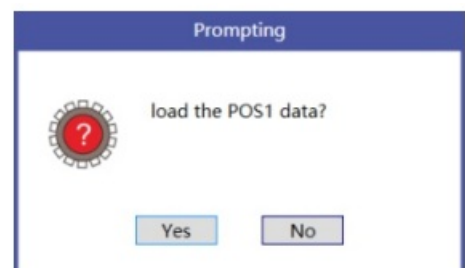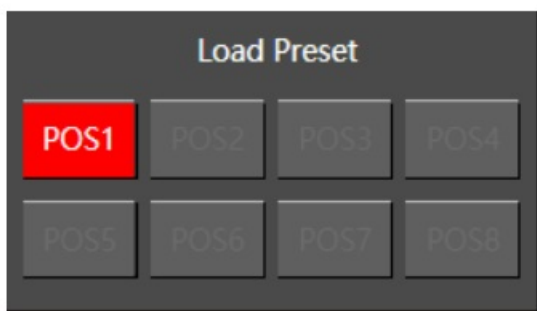

12. WRITE.

    To Write To Device(POS1-POS8).

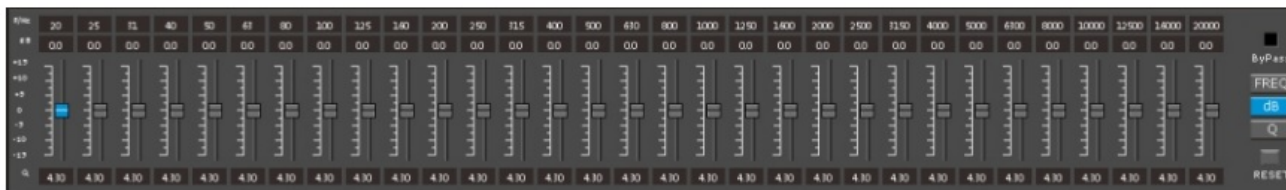13. READ.

    To Read From Device(POS1-POS8).

14. X-OVER AND EQ CHARTS.

    1. Red lines and slopes will change accordingly when HP/LP of crossover and EQ are modified.

    2. EQ all frequency points can be moved left or right. For 20Hz-20KHz can be any Regulation.

15. EQ SETTING.

    Qvolue=1-12.

REMOTE INTRODUCTION

1. A.Main volume.

   B.When you press this button for a short time, It is in the"MUTE" state. And the close"MUTE".

   C.When you press this button for a longer time(for a second),It will enter the menu mode.

   In the"MODE^{n}or^{H}INPUT" flishing. You can adjust the mode which you want.

2. Main volume display window.

3. DSP mode display window(1-8).

4. Input display status.(CD.AUX.SPDIF.WIFI).

TECHNICAL FEATURES

POWER SUPPLY	
Volta de	8.5-15VDC
Idling current	0,5A
Switched off without DRC	5mm
Switched off with DRC	4 mA
Remote IN voltage	6-15 VDC
Remote OUT voltage	12 VDC(130mA)

SIGNAL STAGE	
Distortion – THD @ 1kHz, 1V RMS Output	0,0004%
Bandwith @-3 dB	20-22 kHz
SIN ratio @ Awe ighted	
Master Input	98 dBA
Auxinput	96dBA
Channel Separation @ 1 kHz	95 dB
Input Sensitivity(Speaker In)	2-15V RMS
Input Sensitivity(Aux In)	0,2-5 V RMS
Input Sensitivity(Phone)	
Input Sensitivity(Speaker In)	10K≡
Input Sensitivity(Aux)	22k≡
Input Sensitivity(Phone)	
Max OUTPUT Level(RMS) @ 0.1% THD	4 V RMS

INPUT STAGE	
High Level(Speaker)	1. 2. 3. 4. 5. 6. in
Low level(Pre)	1. 2. 3. 4. AUX-in

CONNECTION	
From/To Personal Computer	1 x USB/B(1.1/2.0) 5M

CROSSOVER N.5(one each output channel)	
Filter Type	Full/High/Low Pass /Band Pass
Slope Setting	6/12/18/24/30/42/48 dB
Crossover frequency	68 steps @ 20- 20kHz
Phase control independent setting for each channel	0 – 180°

GTtrading

AUDIO SYSTEM

Italy

D04-MEN097-00

Documents / Resources

	AUDIO SYSTEM ADSP10 Digital Signal Processor [pdf] Owner's Manual ADSP10, Digital Signal Processor, ADSP10 Digital Signal Processor