

Ower s'Manual Digital Signal Processor







DIGITAL SIGNAL PROCESSOR

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1.PRODUCT DESCRIPTION-PRECAUTIONARY NOTES

The DSP is a digital signal processor essential to maximize the acoustic performance of your car audio system.

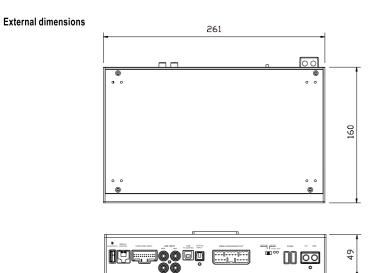
It consists of a 32-bit DSP processor and 24-bit AD and DA converters. It can connect to any factory system, even in vehicles featuring featuring an intergrated audio processor, since, thanks to the. De-equalization function, the DSP will send back a linear signal.

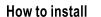
It features selectable High and low level inputs as well as 3,5MM Aux and digital inputs that feed 8 completely variable output channels. Each output channel has a 31-band equalizer available; it also features a 66-freqency electronic crossover as well as . BUTTERWORTH or LINKWITZ filters with 6-24dB slopes and a digital time delay line.the user canselect adjustments. That allow 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. 2-Before connecting you DSP, carefully read this manua .Improper connections may cause damage to The DSP or to the speakers in the car audio system.

2.PACKAGING CONTENTS - DSP- Signal Interface Processor - Power supply cable/Remote/wifi/Inputs - 5.0m USB cable -- Control High Level Input -- 4 of 4.0*15 mm self-tapping,-Cross-head fixing screws, OPTIONAL: AUDI - DRC(Digital Remote Control)control panel:-- 5.0 m DRC-AC Link cable -

3.DSP AND DRC INSTALLATION

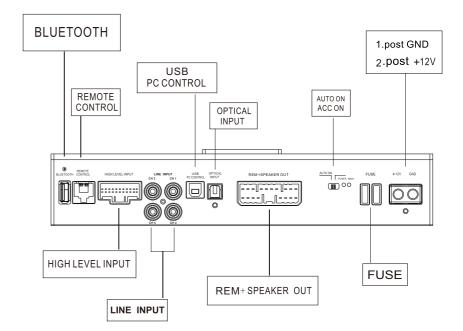






WARNING: do not use aggressive cleaning agents or abrasive cloth to clean the display. Simply use a soft cotton colth lightly damped with water.

4.CONNECTION PANELS-DESCRIPTION



[3]

5.SOFTWARE INSTALLATION

5.1 DSP GUI installation

1.Insert CD, Double-Click DSP

文件 主页 共享	Administrator\Desktop\Audio6-10 v0. 查看 Audio6-10 v0.0.6	0.6			
★ 快速访问	名称 ^	修改日期	类型	大小	
 世电脑 ③ 3D 对象 	🖏 Audio6-10 v0.0.6	2020/9/24 0:22	应用程序	69,630 KB	

2.Click NEXT

👼 Audio6-10 安装		× 🐻 Audio
25	Welcome to the Audio6-10 安 装向导	
	Select the setup language: English	v
	下一步(N) > 取消	

S.Click NEXT

4.Click NEXT



📆 Audio6-10 Setup		×
Ready to Install		See.
The Setup Wizard is ready to begin t	the Audio6-10 installation	
Click "Install" to begin the installation	If you want to review or change an	v of your
installation settings, click "Back". Clic	ck "Cancel" to exit the wizard.	
installation settings, dick "Back". Cit	k "Cancel" to exit the wizard.	
installation settings, dick 'Back'. Cik	d: "Cancel" to exit the wizard.	
installation settings, click 'Back'. Cli	k "Cancel" to exit the wizard.	
installation settings, click 'Back'. Cik	d: "Cancel" to exit the waard.	

6. Click NEXT



6.GUI OPERATION INSTRUCTION

- 6.1 Guide to GUI after installation
- 1. Double click icon of DSP-CONTROL



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



6.2 Interface introduction

1.DSP interface guidance



2." FILE" MAIN MENU 1

1. Connect(connect to the DSP)

Connect Language Open Save As Restore Factory Modify Password

About

2. Language(choose you need language)

Connect		
Language	•	简体中文
Open Save As	-	English
Restore Factory Modify Password		
About		

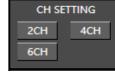
- 3. Open(To load preset file in PC folder)
- 4. Save(To save setting to PC)
- 5. Save as(To save another file setting to PC)
- 6. Restore Factory(To save preset file in DSP)
- 7. Modify Password

Modify Password	Modify Password
Origin Password: New Password: Confirm Password: OK Close	Crigin ***** Password: ***** New Password: ***** Contine ***** Password: ***** OK Close

- 9. Read From Device 10. About 11. Exit
- 3. INPUT MODE. To select different input devices.



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



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



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

 0° Click 0 $^{\circ}$ to switch to 180 $^{\circ}$, 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 : Null.Front.Rear.Center.Subwoofer and Full.Tweeter.Mid-T.Midrange.M-WF. Woofer.

INPUT	OUTPUT	CH	INPUT	0	JTPU	т	сн	IN	PUT OUTPUT	сн
1 🕌	FL-Full 🚽		NULL			Ŧ	СНЗ	5	💡 FL-Full 🖕	CH5
2 🗸	FR-Full 🖕	\checkmark	Front	٠	-	Lef	t 🔸		Tweeter	
SOURCE	BT		Rear	٠		Rig	ht ≯		Midrange	
MAIN	SPDIF		Center	٠	LP		MAIN		Woofer	2
AUX	COAX		Subwoofer	٠	-		0.0		Midrange Tweete	r o
СН	SETTING	20	20000 6				+12 +12		Midrange Woofer	· •
2CH	4CH		₩ 🗐	4			•-	✓	Full	
6CH								1	1 1	1 1

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

	Channel Link
INPUT OUTPUT CH TEST LINK 1 , FL-Full , CH1 1 2 , FR-Full , CH2 2 2	Need to synchronize the data transfer, please select sync mode:
CROSS OVER OFF HP BP LP MAIN FREQUENCY SLOPE 00	Copy from right to left Yes No

5. CROSSOVER X-TPE.

To choose different crossover type, for example select CH selection on 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 optional range for gain control kf every CH.



8. DELAY.

1.Auto configuration(base on 1.5 setting).

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



9. LP/SLOPE.

1.6dB/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 Bessel Butterworth.



Prompting

Data saved successfully!

Yes

12. WRITE.

To Write To Device(POS1-POS8).





To Read From Device(POS1-POS8).

Load Preset					
POS1	POS2	POS3	POS4		
POS5	POS6	POS7	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 move left or right.For 20Hz-20KHz can be any Regulation.



15. EQ SETTING.

Q volue=1-12.



8.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" or "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).

9.TECHNICAL FEATURES

POWER SUPPLY	
Voltange	8.5-15VDC
Idling current	0,5A
Switched off without DRC	5mm
Switched off with DRC	4mA
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	20-22kHz
S/N ratio @ A weighted	
Master Input	98 dBA
Auxinput	96dBA
Channel Separation @ 1 kHz	95 dB
Input Sensitivity(Speaker In)	2-15 V 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 indepent setting for each channel	0 - 180°