

Ower's Manual DSP Car Power Amplifiers





DSP A10

DIGITAL SIGNAL PROCESSOR

D04-MEN124-00

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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.

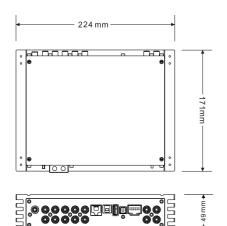
It features selectable High and low level inputs as well as 3,5MM Aux and digital inputs that feed 8 completely variable output channels. Each output channel has a 31-band equalizer available it also features a 66-freqency electronic crossover as well as . BUTTERWORTH or LINKWITZ filters with 6-24dB 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. Of 1024x600 pixels are required to install the software and setup the DSP. 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 Inputs/speaker output - 5.0m USB cable -- Control High Level /wifi Input - 4 of 4.0*15 mm/8of 3.0*6mm self-tapping, -Cross-head fixing screws, OPTIONAL: - DRC(Digital Remote Control)control panel:-- 5.0 m DRC-AC Link cable -

3.DSP AND DRC INSTALLATION

External dimensions



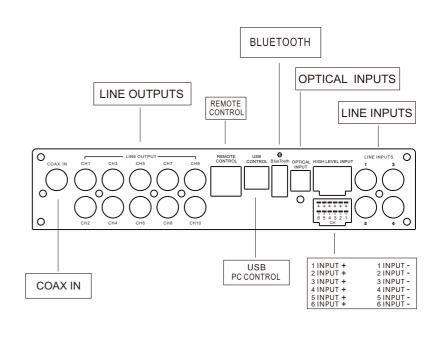
How to install

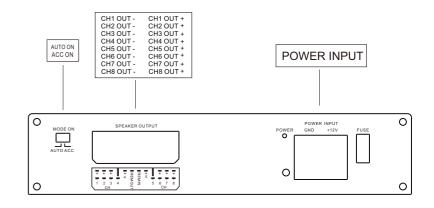




WARNING: do not use aggressive cleaning agents or abrasive cloth to clean the display. Simply use a soft cotton colth lightly damped with water.

4. INPUT SIGNALS



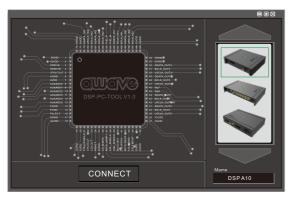


5.GUI OPERATION INSTRUCTION Guide to GUI after installation

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.





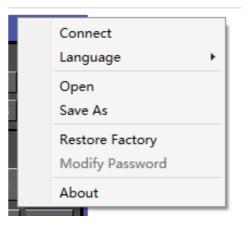
6. INTERFACE INTRODUCTION

6.1DSP interface guidance



6.2" FILE" MAIN MENU1

1. Connect(connect to the DSP)



2. Language(choose you need language)

Connect	_	1	
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

Origin Password:			
Password:			
New Password:			
Confirm Password:			

	Modify Password
Origin Password:	*****
New Password:	*****
Confirm Password:	*****
ОК	Close

8. Write To Device 9. Read From Device 10. About 11. Exit

7.3

1. INPUT MODE. To select different input devices.



(2) Input channel: 1.2.3.4.5.6



2

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



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° to switch to 180°, corresponding to the output of this channel

3. 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 .



4. CROSSOVER FREQUENCY.

Set frequency of LP/HP individually.



5. GAIN.

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



6. DELAY.

1.Auto configuration(base on 1.5 setting).

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



7. LP/SLOPE.

8. HP/SLOPE.

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





1.6dB/oct 12dB/oct 18dB/oct 24dB/oct 30dB/oct

36dB/oct.42dB/oct 48dB/oct are available.

9. Filter Model.

To choose different Filter type Linkwitz Bessel Butterworth.



10. WRITE.

To Write To Device(POS1-POS8).

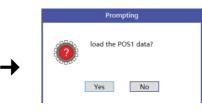
Save Preset 🔻										
POS1	POS2	POS3	POS4							
POS5	POS6	POS7	POS8							



11. READ.

To Read From Device(POS1-POS8).





12. 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.



13. EQ SETTING.

Q volue=1-12.

D	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
F/H	z 2		25	31	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	12500	16000	20000	Bypass
đB	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
+15																										٦	Э						FREQ
+5		3		3	31	3		31			3	3	3	3		3			3	3		3	3	3	3	3	3	3	3	3	3	3	
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-5																			1	1		1	1	-1	1	4	4	-1		1	4		
-10		3			3	3	Ξ.	3		3	Ξ	Ξ	з	Ξ	3	Ξ.												з	Ξ.	З,	Ξ,	3	
	4	12	432	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.12	4.32	4.32	4.32	432	4.32	4.32	4.32	4.32	4.12	4.32	4.12	4.32	4.12	4.32	4.32	4.32	4.32	4.12	4.32	4.32	4.12	RESET

7.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. SPDIF.WIFI).

8.TECHNICAL FEATURES

POWER SUPPLY	
Voltange	9-16VDC
Idling current	1.5A

SIGNAL STAGE	
Bandwith @-3 dB	10-20kHz
S/N ratio Full Power A-	>100 dB
Hight level input range	3V-15V
THD+N VS Power 1%	(CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8) 8X50W ATTS

1.2.3.4.5.6
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°