- -. Normal use
- 1. Turn VOLUME potentiometer: from -80dB to 0dB for select Volume



2. **Connect the power cord cable.**Active speakers use should be at 170V to 260V voltage range. or use should be at 90V to 125V voltage range If overload this scope, will protect power amplifier.







USB TO 485 Network cable



Power cable₽



USB to Net Link



The NETwork input to the port IN



These two speakon no function.

3. The signal lines XLR connected. Signal lines must balance the connection, (XLR 2 pin+ for positive, 3pin- for negative, 1 pin for ground), if wrong connect it will cause noise.



4. Notice: When play active speaker if signal **too strong** the **CLIP "Yellow indicator"** will bright. If clip indicator bright several minutes, is normal.

If clip bright long time that mean signal is compress, the power and dynamic will insufficient.

Overvice overview INPUT output Matrix Mixer		×
OUT 1 00dB 0.0dB OUT 2 0.0dB 0.0dB OUT 3 0.0dB 0.0dB OUT 4 0.0dB 0.0dB	+6 -15 -15 -30 -45 -60 ■ 0.0dB ↓ Clear Reset	DSP
IN A MUTE NG GAIN -70 dBu -3. 0 dB IN B S - 70 dBu 0. 0 dB	POLARITY + +	GAIN POLARITY DELAY LIMIT MUTE -3.04B + 0.00ms -124Bu OUT 1 -3.04B + 0.00ms -124Bu OUT 2 -4.04B - 0.00ms -184Bu OUT 3 0.04B + 0.00ms -234Bu OUT 4

5. Warning: in Software OVERVIEW and OUTPUT interface : "Limit" and "CLIPPER" parameter cannot adjust, it must be use factory setup:-12dBu,-12dBu,-18dBu. **Very important.** Otherwise will burn speaker driver





\equiv , the DSP pattern Set or changes.

User can adjust frequency response curve, but must be do by experienced sound engineer.

Pre1 to pre 5 it is factory pattern **please do not change**. User6 to user 30 can change what you want parameter

When mix up the parameter, you can set to pre4 it is factory standard parameter.

User 6 to user 30 part can save new parameter: **full range** main channel low pass and high pass, delay, phase and bass compensation. Also can adjust timbre, frequency and six group equalizer parameter.

<1> Dev	ice	
OVERVIEW	INPUT OUTPUT	
	Matrix Mixer	
	Image: series of the series	+6 0 -15 -30 -45

Connect >>Port select>> com>>Serial port>> com1.or 2 or 3 or..4.. >>OK

File View Device Memor	ry Connect Tool	Help						
· 🔎 🔒 📔 🎯 🗙	?							
	<1> Device							×
	OVERVIEW INF	OUT OUTPUT Matrix	Mixer					
Green Connect OK		OUT 1 00dB - 0 OUT 2 00dB - 0 OUT 3 00dB - 0 OUT 4 00dB - 0			+6 1 1 -15 1 -50 1 -60 1 0.048 ↓ Clear Reset		DSP	
	IN A THE	NG -704Bu [-704Bu [GAIN 0. 04B 0. 04B	POLARITY + +		GAIN 0.04B 0.04B -5.04B 0.04B	POLARITY DELAY LIM + 0.00as -74 + 0.00as -74 + 0.00as -74 + 0.00as -74 + 0.00as -73 + 0.00as -234	IT MUTE OUT 1 Bu OUT 2 IBu OUT 3 IBu OUT 3 IBu OUT 4

Click Connect >>Connect>> Then will show green is connect succeed



Choose CHANNEL Used IN A channel



		By	pass
CHAP	NNEL	CHA	NNEL
OUT 1	OUT 2	LF1	LF2
Т 3	OUT 4	HF1	OUT 4

Choose CHANEL Used to setup parameter

OUT1=LF Woofer 1 channel, OUT2=LF Woofer 2 channel OUT3=HF Tweeter 3 channel

Can adjust and save what you want sound effect.

Notice Software OUTPUT

CLIPPER" parameter cannot adjust, it must be use factory setup:-12dBu,-12dBu,-18dBu. **Very important.** Otherwise will burn speaker driver



Ξ , Adjustment equalizer

1. choose type

PEQ types, frequency can adjust increase or decrease; Usually use PEQ

LS type, low pass frequency is adjustable

HS type, high frequency is adjustable







PEQ type for example



HS type for example

LS type for example

2.How to set up Q Value.

Filter number 1 to 6, and then set up Q Value

When equalizer Q parameter (Q value) is smaller adjustable frequency is more width. (against Q parameter is bigger the frequency is narrow)



Q Value example

3. adjustment gain

Input what you want parameter, input positive 1, 2, 3...; input negative: -1, -2, -3...("-" is reduction gain)



Gain example for -2

四, computer connected

1) First install USB driver 485 software and DSP software. (factory supply)

A) Setup NET4.0 and USB driver DSP500 software V4.3.44_2 Net4.0 for window PC RS485to USB driver

B)Choose windows XP or Windows 7 ect for your computer.

For Windows 98&Me For Windows Vista x64 For Windows XP Mac OS X Windows 7 Windows CE 4.2-5.2 Windows CE 6.0 Operation Manual of USB to RS485 422.doc USB TO RS485(FTDI).doc 2) Open the DSP500 software and click "DA STUDIO PRO.exe ""Connect", connect device

🖻 data EQPresets 🗀 ing Log MappControl.dll MppHelper.dll 🔊 AppInstall. dll MppResource. dll MppWin32.dll 🔊 com_dll. dll 🖻 DA3088_2. NetPro 🐃 DA STUDIO PRO.exe 🖬 DA STUDIO PRO.exe.config 🗂 Del Com. exe 🔊 DevOperate. dll 🔊 filter. dll 🔊 FirmwareUpdate.dll 🔊 kernel 32. dll 👐 main.ico 🔊 msvcr100d. dll 🖻 SystemSet. dat

Memory Connect Tool Help e $\otimes \times$ <1> Device ry OVERVIEW INPUT OUTPUT Matrix Mixer LEB -15 11111 -30 COM O USB = -45 COM -60 ____ Serial Port: COM4 • 0.0dB 📥 Baud Rate: 115200 bps + Clear Reflash OK Close Reset

Connect >>Port select>> com>>Serial port>> com1.or 2 or3 or..4.. >>OK

Click Connect >>Connect>> Then will show green is connect succeed

File View Device Memor	ry Connect Tool	Help		
Green Connect OK	<1> Device overview INF	UT OUTPUT Matrix Mixer	+6 11 -15 11 -50 11 0.048 ↓ Clear Reset	DSP
	IN A WUTE	NG GAIN -70dBu 0.0dB	POLARITY + +	GAIN POLARITY DELAY LIMIT MUTE 0.04B + 0.00s -74Bu 0UT 1 0.04B + 0.00s -74Bu 0UT 2 -5.04B + 0.00s -134Bu 0UT 3 0.04B + 0.00s -234Bu 0UT 4

3) When you set new parameter you should save to "user group" Filters Preset for next time use.

TPUT Q: 1 Gain: 00 Out 1 Filters Out 1 Filters 1:Preset IF1 2:Preset IF2 3:Preset HF1 Standard 4:Preset HF-2dB 5:Preset HF+2dB 6: 7: 7:	PEQ an s Preset × Save Recall Delete Rename	•		CLIPF Thrd: -12dB +*6
eg: 40H2 Q: 1 Cain: 00 Out 1 Filters 1:Preset IF1 2:Preset IF2 3:Preset HF1 Standard 4:Preset HF-2dB 5:Preset HF+2dB 6: 7:	PEQ and s Preset Save Recall Delete Rename	•		CLIPF Thr d: -12 dBu +60
eq: 40Hz Q: 1 Gain: 03 Out 1 Filters 1:Preset LF1 2:Preset LF2 3:Preset HF1 Standard 4:Preset HF-2dB 5:Preset HF+2dB 6: 7:	dB s Preset × Save Recall Delete Rename	• •		Thrd: -12dB +6
9: 10: 11:		5kHz 10kH Visible Filter	z 20kHz	-90 —= Release: 50ms ByPa
FRE 12:		Q GAIN	BYPAS	
14: 40Hz 15: 15: 15: 15: 16: 17: 573Hz 20: 3.222Hz 21: 22: 23: 24:		LPF	Bypass Bypass Bypass Bypass	
	FRE 13: 40Hz 15: 151Hz 16: 1573Hz 18: 2,172Hz 20: 3,222Hz 21: 22: 23: 24: 24:	FRE 13: 40Hz 15: 15Hz 15: 15Hz 17: 573Hz 18: 2,172Hz 20: 3,222Hz 21: 22: 22: 23: 22: 24: V	FRE 13: Q GAIN 40Hz 15: 1.00 \$ 0.0dB \$ 151Hz 16: 1.00 \$ 0.0dB \$ 1573Hz 18: 1.00 \$ 0.0dB \$ 2.172Hz 20: 1.00 \$ 0.0dB \$ 3.222Hz 21: 22: 23: 21: 22: 23: Close LPF * Butterworth 24dB * Bypass 2,U58.UHz Butterworth 24dB *	FRE 13: 0 GAIN BYPAS 40Hz 15: 1.00 ÷ 0.0dB ÷ Bypass 15Hz 16: 1.00 ÷ 0.0dB ÷ Bypass 15Hz 18: 1.00 ÷ 0.0dB ÷ Bypass 2,172Hz 19: 1.00 ÷ 0.0dB * Bypass 3,222Hz 21: 1.00 ÷ 0.0dB * Bypass 2,172Hz 20: 1.00 ÷ 0.0dB * Bypass 3,222Hz 22: 1.00 ÷ 0.0dB * Bypass 2,172Hz 20: 1.00 ÷ 0.0dB * Bypass 2,23: 22: 1.00 ÷ 0.0dB * Bypass 2,4: ✓ IPF * Butterworth 24dB * Bypass Bypass

~			
	Mei	mory Connect Tool Hel	lp
S.S.		Preset manager	
ry		PC preset	•
		Export all presets	DUTPL
		Import presets package	
		+15 - 1 Nume 1	Frequ

4) When computer connected with device you can choose eight group mode to use, if disconnect with computer, it will use acquiescence mode.





Power cable⊬

5) SEARCH DEVICE ID

"COM" mean computer USB connect port. "device ID" mean speaker code. Factory pattern each speaker code is "1"

When use a group of speaker, not need separate adjust single speaker, just adjust first module parameter. Other module will change to same as first module parameter.

You also can adjust each speaker module for different parameter

6) Memory preset manager



Connect Tool Memory Help e Q X <1 Device ory OVERVIEW INPUT OUTPUT Device Preset Manager Device - ... Auto Save Empty 1:Default 2:ResetFactoryStandard Device Memory 📕 3:Preset 1 Standard Boot 4:Preset2Small(HF-2dB) Current 5:Preset3Big room(2dB) 6: CurrentAndBoot 7: 8: Save 9: 10: Recall 11: 12: Boot 13: Delete 14: 15: Clear 16: 17: Close 18: 19: 20: IN A 21: IN B 22: 0 23: 24: 25:



Memor	ry Connect	Tool He	lp				
	VERVIEW	INPUT	OUTPUT Device Auto Save 1:Default 2:ResetFa 3:Preset 4:Preset2 5:Preset3 6: 7: 8: 9: 10: 11: 12: 13: 14: 15: 16: 17: 18: 19: 19:	Preset coryStandard 1 Standard Small (HF-2dB) Big room (2dB)	Manager	Device	Empty Device Memory Boot Current CurrentAndBoot Save Recall Boot Delete Clear Close

Factory Recall (reset factory standard)

When you mix up the parameter setup, you can recall the rest factory standard. parameter

Memory >>Preset manager>> Reset FACTORY standard >>Recall

DSP3500 module setup drives step

First be sure computer and DSP module are RS485 Wire connected

1. Mouse right-hand button Click "my computer"



2. click "device manager" Q-----see Terminal (COM and LPT)-----



3. double click communication port "COM 1" find: "driver program"-----updated driver-----click OK

通讯端口 (COM1) 属性 ?区
常规 端口设置 驱动程序 详细信息 资源
通讯端口 (COM1)
驱动程序提供商: Microsoft
驱动程序日期: 2001-7-1
驱动程序版本: 5.1.2600.0
数字签名程序: Microsoft Windows Component Publisher
驱动程序详细信息 (1) 查看有关驱动程序文件的详细信息。
更新驱动程序 (2)为这个设备更新驱动程序。
返回驱动程序(R) 如果该设备在更新驱动器时失败,请 返回到以前安装的驱动程序。
卸载(U) 卸载驱动程序(高级)。
OK 确定 取消 -

4. Choose (S)-----next---



5. Choose "1"---2----3----5 choose drivers (or CD drivers)---6---finish

@ 硬件更新向导	浏览文件夹 ? 🔀
诸选择您的搜索和安装选项。 ● 在这些位置上搜索最佳驱动程序 (⑤)。 使用下列的复选框限制或扩展默认搜索,包括本机路径和可移动媒体。会安装找到的最佳驱动程序。 ● 推索可移动媒体(软盘、CD-ROM)(0) ● 在搜索中包括这个位置 (0): ● 在搜索,我要自己选择要安装的驱动程序 (0)。 ● 选择这个选项以便从列表中选择设备驱动程序。Windows 不能保证您所选择的驱动程序与您的硬件最匹配。	选择包含您的硬件的驱动程序的文件夹。 ● 全 我的文档 ● ● 予 我的文档 ● ● 不好居 4 driver ● ● RS485to USB driver ● ● 软件
- 6 finish 《上一步®》下一步® 》 [取消	要查看任何子文件夹,读单击上面的 + 号。 〇人 确定 取消

6. Finally successful: see USB Serial Port (COM3)

■设备管理器	
文件(F) 操作(A) 查看(V) 帮助(H)	
 ■ 20190312-1954 ■ DVD/CD-ROM 驱动器 ■ IDE ATA/ATAPI 控制器 ● 处理器 ● 磁盘驱动器 ● J 端口 (COM 和 LPT) ● J 端口 (COM 1) ● J 计算机 ● J 最小報 ● J 最小和其它指针设备 ● J 系统设备 ● J 显示卡 	
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