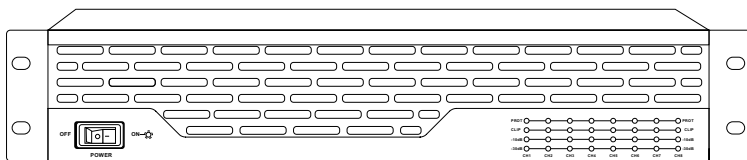


使用说明



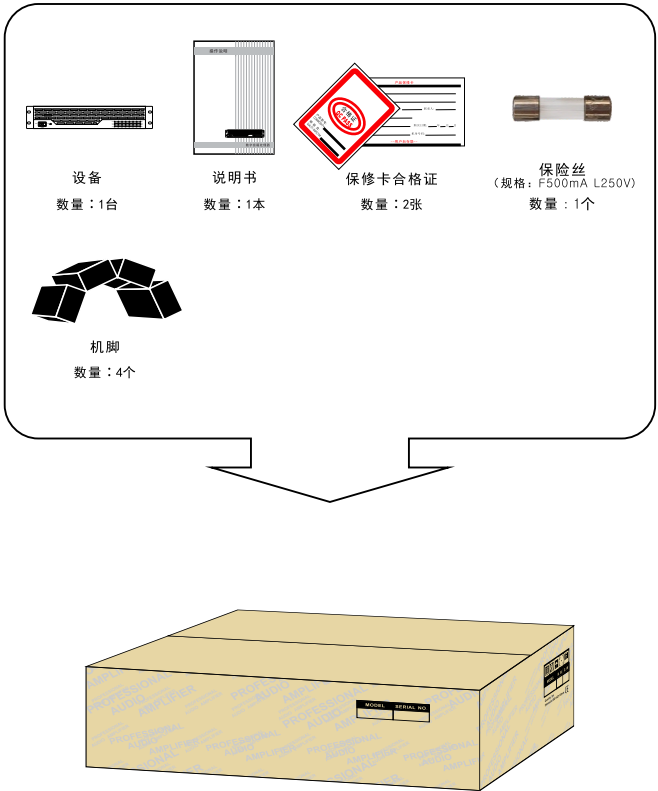
DCA1812



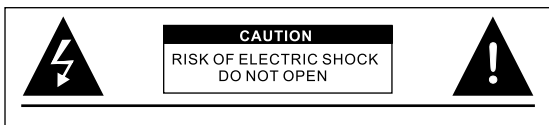
数字会议功放

包装清单

请确认包装内的物品



一、注意事项(Cautions)



内部有危险电压，触及会有触电危险

Internal Dangerous Voltage of the product. Do not touch it,
It can cause electric shock .



设备进行操作维修，注意安全

The systemt is under operation and maintenance, Be safety.

□不要在功放上堆放物件。

(Do not put anything onto this amplifier.)

□使用一个大的容量的电源插座进行供电是必要的。

(Huge Power Supply is needed .)

□输入电平由各自通道的增益电位进行调整。

(Input Level is adjusted by Gain Potential of Each Channal .)

□当连接输出大功率，功放发热时，风扇的转速增加，机箱内会发出轻微的噪声，这是正常的。

(Some Noise from Radiator Fan is normal.)

□机后板通风槽不能有任何阻塞。清洁机箱时，先关机拔下后面的电源插头后，使用干燥的布进行擦洗。

(No any obstruction in the ventilated groove in the rear panel.Please cut off the power before clearing,then scrub the device with dry duster.)

□本机不能与水接触。

(Do not access to water.)

□如果功放出现异常，应及时关机，拔下电源插头与经销商联系。

(Power Off before clearing the case.)

二、功能特点(Features)

► 本产品是技术精华的浓缩，一流的音质和稳定性，配上简单又显高贵的外观，将成为所有用户为之激动的产品。

(Stable, precise and pure quality defines the device, which is distinctive in quality design and stability.)

► 宽电压适应范围和稳定可靠的性能 (Stable and dependable performance)

相对于额定输入电源电压，有70%~120%的超宽工作电压范围设计，因此极强的电压波动环境均能应付。先进的SMT贴片工艺更为稳定性能保驾护航。

(Due to broad working voltage with the range of 160V~270V is designed at the first place, strong voltage pulsation circumstances can be handled. Advanced SMT strengthens the stability.)

► 精确，纯净的音质特性和极好的信噪比 (Precise and pure quality)

为了消除声音缺陷进行的试验投入终于有了回报，因而精确和透亮是本产品的特征。而同样出色的还本产品超低的失真值和极好的信噪比。

(Finally, several experiments to eliminate the sound defaults are paid. Consequently, precision and clarity of DCA1812 series are remarkable. Let alone the ultra low distortion and super signal to noise ratio.)

► 为会议、广播等场合设计 (Designed for the applications of Conference System, theatres and Multi-channel system)

轻巧的2U机箱设计更适合搬运和安装，同时适合所有机柜中任何一个位置安装成了它的又一亮点，所有完善的保护电路使其具备航母级的自我保护特性，同时面板的多方位设计更显设计的人性化。

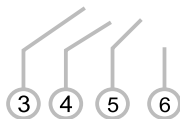
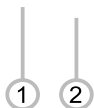
(Thanks to the unique and flexible power system, DCA1812, with a huge capacity storage, can be handy 2U-cabinet that makes setting and carrying easier can be fixed on any parts of the rack. The perfect protection circuit makes its self-protected characteristics are as splendid as the aircraft carrier's.)

► 精益求精和良好的一致性 (Always pursuit of the best)

本产品是经过多年积累、精心打造的性能优化产品，内部完整的布局足以证明其工艺的考究。元件的严格筛选和生产的科学控制表现产品的一致性。

(The device that have been studied for years are the optimum products with elaborated performances, which is proved by the sophisticated interior layout.)

三、前面板功能说明(Front Panel's Functions Introduction)



1. 电源开关(Power)

当打开此开关时，功放的软启动防浪涌冲击电路开始工作，软启动工作完成，继电器吸合功放已接入扬声器，此时本机进入工作状态

(Press this button and it start to work)

2. 电源指示灯(Power Indicator)

3. 功放保护指示灯，为黄色。

(Amplifier protection indicator is yellow)

4. 功放削波指示灯，为红色。

(Amplifier clipping indicator is red.)

5. 功放-10dB电平指示灯，为绿色。

(Amp-10dB level indicator is green.)

6. 功放-30dB电平指示灯，为绿色。

(Amp-30dB level indicator is green.)

四、后面板功能说明(Rear Panel's Functions Introduction)



7:功放音量旋钮，为暗调式旋钮

(Volume knob.)

8:功放模拟输入插座，如丝印所示，从前往后看，上面那组从左到右依次为CH1~CH4，上面那组从左到右依次为CH5~CH8

(Analog input socket , as the picture above , from right to left , the first group is CH1-CH4 ,and the second group is CH5-CH8)

9:功放输入选择开关，从前往后看，拨向左为数字输入，拨向右为模拟输入

(Input option switch ,turn to left is digital input mode and turn to right is analog input mode)

10:功放光纤输入，如丝印所示，从前往后看，从左到右依次为CH1~CH8

(Optical input , as the picture above , from right to left is CH1-CH8)

11:功放变速风扇出风口，请不要堵塞

(The air outlet of variable speed fan , please keep clear)

12:功放输出口，如丝印所示，从前往后看，从左到右依次为CH1~CH8

(Output port of amplifier , as the picture above, from right to left , the first group is CH1-CH4 ,and the second group is CH5-CH8)

13:电源进线

(Power input port (Please make sure the voltage is the same as required before the device working)

14:过流保护器(整机过流时自动熔断，重新更换请更换同种规格)

(Power fuse block (The internal fuse will be automatically fused when the machine over-current. please replace the fuse with the same model if needed))

15:为功率放大器与地线连接处

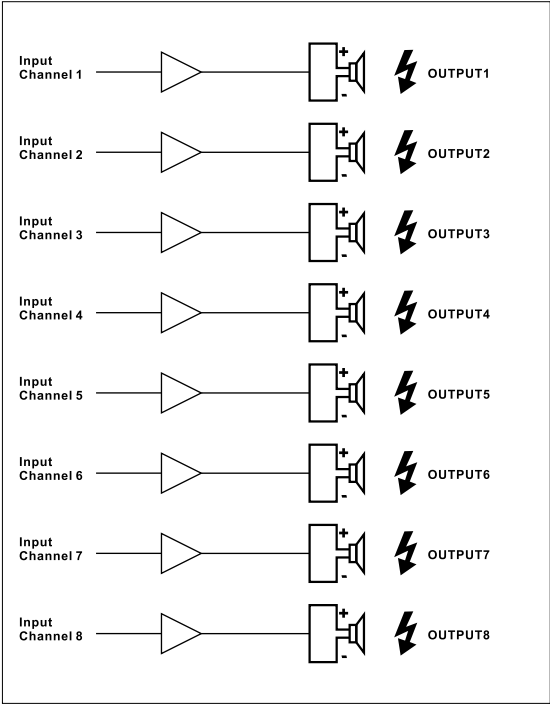
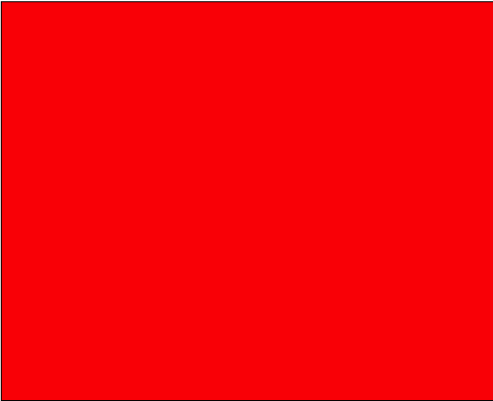
(Ground Pole: The connection between amplifier and ground.)

五、输入插座接线图(Input Plug Wiring Diagram)

模拟输入 (ANALOG INPUT)

光纤输入 (OPTICAL INPUT)

六、输出插座接线图(Output Plug Wiring Diagram)

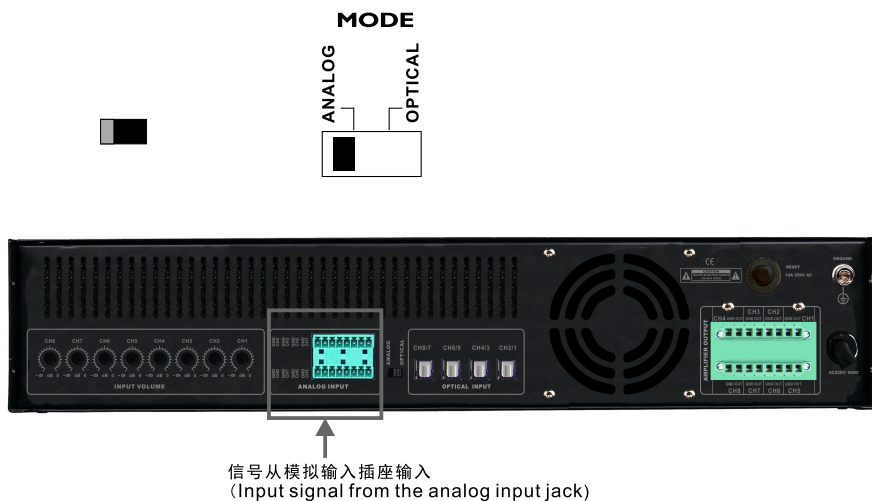


七、工作模式(Operating Modes)

1.模拟工作模式 (ANALOG Modes Operation)

信号从模拟输入插座输入

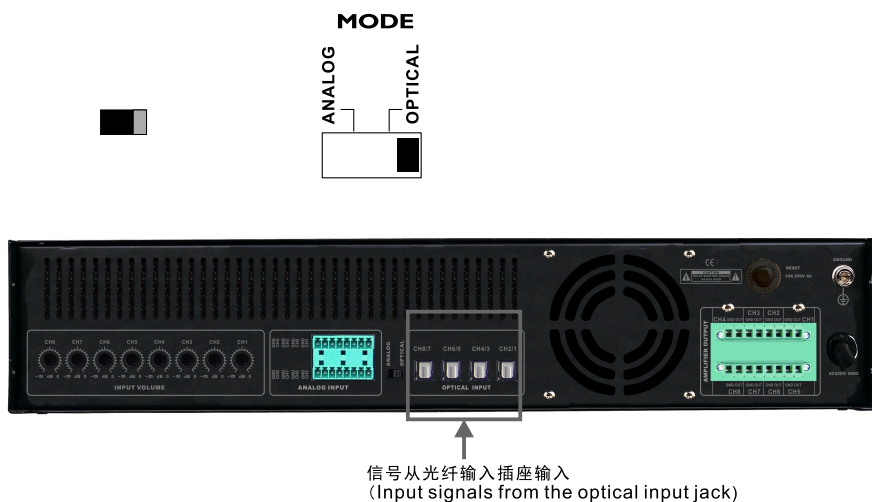
(Input signal from the analog input jack)



2.数字工作模式 (Digital Modes Operation)

信号从光纤输入插座输入

(Input signals from the optical input jack)



警告！

在市电达到270伏/135伏时，功放输出最大峰值高达500瓦。。扬声器负载接线必须符合NEC级别3安全标准，或满足所有国际和当地电气规范的同等要求。所有耗电器特定电缆只能由有资格的供应商/个人制造。且必须有合格人员完成所有敷设电缆或接线工作。

WARNING!

In the power supply to 270/135 Volts, The maximum peak power output of up to 500 watts. The wiring of the amplifier must abide by the NEC 3 or meet all the international or local Electrical codes. All the electrics should be supplied by qualified suppliers and also should be operated by qualified workers.

$Z_{rated}=8\Omega$

额定负载为 8Ω ，请不要在 4Ω 负载下工作。

Rated load for 8Ω , please do not work under 4Ω .

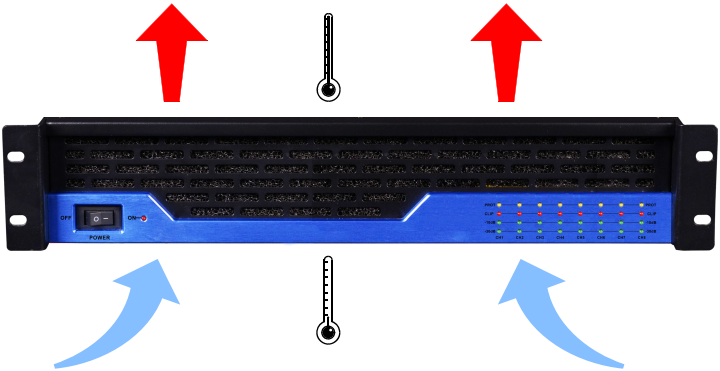
八、功放冷却气流方向(Airflow Direction)

在工作时的气流方向如下:

如图: 空气从前往后流动, 冷空气从面板前面的两侧进入机箱, 热风从后板的风扇风口吹出。
风口请最少预留50mm的空间, 保证空气流动, 否则功放会因为热量不能散发而停止工作甚至损坏。

(See picture: The air flows from the front to the back . The cold air enter into the case from the two sides of the front panel and then the hot air will be blown out from the fan in the rear panel.

Please keep the space at least 50mm and promise the air is flowing , otherwise the amplifier will be damaged .)



九、技术参数 (Specification)

技术参数 (Specification)	
Mode	120W
额定输出功率,连续平均功率1KHz,总谐波失真 $\leq 1\%$ (Rated output power · Continuous average power · RMS,1KHz,THD $\leq 1\%$)	
桥接在4 Ω 负载(Bridge @ 4 Ω)	N. A.
桥接在8 Ω 负载(Bridge @ 8 Ω)	N. A.
桥接在16 Ω 负载(Bridge @ 16 Ω)	N. A.
8声道在2 Ω 负载(Stereo @ 2 Ω)	N. A.
8声道在4 Ω 负载(Stereo @ 4 Ω)	N. A.
8声道在8 Ω 负载(Stereo @ 8 Ω)	8×120W
频率响应 8 Ω 负载,比额定功率小10dB (Frequency response · 8 Ω load,10dB below rated power)	20Hz~20KHz ± 0.3 dB
总谐波失真加噪声,20Hz~20KHz,8 Ω 负载,比额定功率小10dB (THD+N (typical) · 20Hz~20KHz,8 Ω load,10dB · below rated power)	<0.05%
互调失真8 Ω 负载,比额定功率小10dB,60Hz+7KHz (Intermodulation distortion · SMPTE (typical) 8 Ω load,10dB below rated power,60Hz+7KHz)	<0.1%
信噪比20Hz~20KHz,8 Ω 负载,A计权 (Signal to noise ratio,20Hz~20KHz,8 Ω load, A-weighted)	>100dB
输入共模抑制比在1KHz(Input CMRR (common mode,rejection ratio) @ 1KHz)	N. A.
通道分离度(串音)在1KHz(Channel separation (crosstalk)@ 1KHz)	>80dB
阻尼系数在8 Ω 负载,1KHz以下频率 (Damping factor 8 Ω load, 1KHz and below)	>100
功放电路 (Circuitry)	双电源, AB类 (Dual power, AB)
输入阻抗 (Input impedance)	模拟输入 6.8K Ω 非平衡输入 (Analog input 6.8K Ω unbalanced input)
转换速率 (Slew rate)	100V/ μ s
额定增益,在8 Ω 负载额定功率输出 (Input sensitivity Rated power @ 8 Ω)	30dB
输入灵敏度,在8 Ω 负载额定功率输出 (Input sensitivity)	+2.2dBu(1.0Vrms).
最大输入电平 (Maximum input level)	+2.2dBu(1.0Vrms).
保护电路 (Protection circuits)	软启动, 输入浪涌限制, 散热器和变压器过热保护, 输出短路保护, 输出直流保护, 输出过载电流保护 (Soft-start, input surge limit, radiator and transformer temperature protection, output short circuit protection, output DC protection, output over-current protection.)
动态压缩 (Dynamic limiter)	N. A.
冷却方式 (Cooling)	2个直流温控变速风扇, 空气流动从前到后 (2 DC the thermostat variable speed fan air flow from front to back.)
面板指示 (LED indicators front panel)	电源, 保护, 削波, 信号 (Power, protection, clipping, signal.)
后板指示 (LED indicators rear panel)	N. A.
输入接口 (Input connectors)	1个模拟插座8路模拟信号或4个数字光纤输入插座输入8路数字光纤信号 (Multi-channel terminal-block jack (8 total inputs).
输出接口 (Output connectors)	1个插座输出8路功放输出或4组立体声光纤输入 (Multi-channel terminal-block jacks (2 x 4 total outputs).)
工作模式 (Modes of operation)	8声道独立模拟输入, 或四组立体声光纤输入, 开关切换 (8-channels of isolated analog signal, or four sets of the stereo optical fiber signal, two signal switches.)
功率消耗1/8 额定输出功率,在8 Ω 负载 (Power consumption 1/8 rated output power @ 4 Ω)	180W
功率消耗1/3 额定输出功率,在8 Ω 负载 (Power consumption 1/3 rated output power @ 8 Ω)	480W
电源 (Power supply)	220V50Hz/110V60Hz(factory configured)
机柜适配器装机高度 (Unit mass)	2U
产品尺寸(宽×深×高) (Product dimension (WxDxH))	482X489X88mm
净重 (Net weight)	17kg
运输尺寸(宽×深×高) (Shipping dimension (WxDxH))	618×671×205mm/0.0850m ³
毛重 (Gross weight)	19kg

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