

一切皆因为爱...  
ALL FOR LOVE...



The logo for a&a Acoustics, featuring the stylized lowercase letters 'a&a' in white on a black oval background, with the word 'ACOUSTICS' in smaller white capital letters below it.  
[www.aaacoustics.com](http://www.aaacoustics.com)



## ABOUT US

---

广州市爱恩爱音响有限公司(a&a acoustics co.,ltd)是一家致力于研发、生产、销售、工程、服务等一体化的高端专业音响企业。通过多年的行业经验和实践操作，产品和工程项目涉及到剧场、体育馆、文化广场、娱乐场所、行政会议中心、演出等应用场所，精心设计，贴心服务，获得了广大用户、合作伙伴和专业人士的高度评价与认可。

科技演绎艺术，艺术塑造人类美好生活，这是公司发展的不懈追求！

公司以“专业、高端”为标准，注重生产、销售、工程、售后等每一个细节，无论是品质还是服务，我们竭尽所能，把我们心中的理想将产品品质和跟踪服务推向一个皆大欢喜的新高度。

公司以“爱好、贤德、勤奋、感恩”为基础汇聚行业知名精英人才，打造“厚德至上、求实创新、诚信互助、广纳博采、和谐共赢”的企业文化，坚持“大爱无边，音乐无限，艺术无界”的人生梦想，以实际行动、事实来证明及回报客户和用户，为社会做出公司应有的贡献。

一切皆因为爱...广州市爱恩爱音响有限公司真诚期待与您携手共创美好的未来！

**a&a acoustics co.,ltd** is a professional enterprise specializing in the development, production, sales , engineering and service of high-end professional audio products. Through many years of industry experience and practice operation, products have widely used in theater, gymnasium, square, entertainment venues, administrative conference center, touring etc applications. Thanks to its elaborate design and considerate service, a&a has been highly recognized and evaluated by the users, partners, professionals.

Technology deduce art, art is shaping people`s better life, it is the relentless pursuit for the company`s development.

a&a takes "Professional, high-end" as the product standard, pay attention to detail processing on production, sales, engineering and after-sales service , both quality and service, we try our best to make this mission to a happy new height.

Basic on"Hobby、Virtue、Diligence、Gratitude",a&a gathered the elites of industry, created "thick virtuous supreme、realistic and innovative、Integrity and mutual assistance、widely collected and adopted、harmonious win-win" core culture to a&a. Ahere the "love immensity greatly、music unlimited、arts are without border"to our dreams, take practical action and facts to prove and return the customers and users, and make due contributions to the industry and society development.

ALL FOR LOVE...a&a acoustics sincerely look forward to working with you to create a better future!

# LA SERIES

## LINE SOURCE SYSTEM



**a&a** LA系列是一款高品质的有源分频线声源阵列系统，根据箱体声学结构使用量身定做高性能单元配件和基于现代电声学理论，遵循线声源规则定律设计，真正的线声源阵列系统在它的全部覆盖区及全部频率范围产生同质的声场而没有声波干涉问题。

**a&a** LA series is a high performance line source array system which is designed based on the custom-made premium units to the construction and the latest acoustical theory especially follow the line source array rules. We all know that a true line source array generate an homogenous acoustic field on all its coverage area, in all its frequency range and is free of interference problems.

LA系列是一款两分频系统，低频部分包含有两只特别定做的低频换能器，高频部分包含有单2寸(LA208, LA210)，两只2寸(LA212, LA312)的压缩式高频驱动器加载在一个特别设计的波导器安装在轻便结实的声学箱体内，为解决各种场合扩声提供满意的扩声方案。

The LA series is a passive two way system, the low section included double customized cone drivers, high section included a 2"(for LA208,LA210), double 2"(for LA212,LA312) compression drivers loaded a special design waveguide on a optimized acoustic enclosure which offer a satisfy solution to any size of venues sound reinforcement.

LA系列包括有LA208(双8寸), LA210(双10寸), LA212(双12寸两分频), LA312(双12寸三分频)线性阵列系统。

The LA series included LA208(double 8"), LA210(double 10"), LA212(double 12"two way), LA312(double 12"three way) line array system.

### Technical specifications 技术参数

Model 型号:	LA 312	LA 212	LA 210	LA 208
Frequency range 频率响应:	50 Hz to 18 kHz	60 Hz to 18 kHz	70 Hz to 18 kHz	80 Hz to 18 kHz
Sensitivity 灵敏度:	LF:113dB; MF:105dB HF:100dB	102 dB SPL	100 dB SPL	100 dB SPL
Max.SPL 声压级:	LF:135dB; MF:136dB HF:141dB	131 / 137 dB SPL	128 / 134 dB SPL	127 / 133 dB SPL
Nominal impedance 输入阻抗:	LF:2x8 Ω; MF:8Ω HF:16Ω	LF:2x8 Ω; HF:16Ω	LF:2x8 Ω; HF:16Ω	LF:2x8 Ω; HF:16Ω
Coverage(H°xV°)覆盖角度:	水平:90°,垂直0-7°	水平90°,垂直0-10°	水平75°,垂直0-14°	水平120°,垂直0-10°
Components 元器件:	LF:2x12",1x10"MF 2x2"HF	LF:2x12",HF:2x2"	LF:2x10",HF:1x2"	LF:2x8",HF:1x2"
Power rated(AES) 输出功率:	2x500W/300W/160W	800W / 160W	500W / 80W	400W / 80W
Connectors 连接器:	2 x NL8MP	2 x NL4MP	2 x NL4MP	2 x NL4MP
Dimensions(HxWxD) 箱体尺寸:	367 x 1000 x 550 mm	375 x 1061x 555 mm	307 x 580x 409 mm	252 x 650 x 385 mm
Net Weight 净重:	63kg	58kg	25kg	22kg

# AH SERIES

## ARRAYABLE SYSTEM



**a&a** AH系列是一款高效率的两路耦合阵列系统，根据箱体声学结构使用量身定做高性能单元配件和基于现代电声学理论，运用号筒加载技术，专为中程投射扩声应用而设计，适用于酒吧、慢摇吧、演艺吧、多功能厅等中小型场所扩声。

**a&a** AH series is a high efficiency arrayable loudspeaker system which is based on the custom-made premium units to the construction and the latest acoustical theory especially special horn loaded technology, AH is designed for the medium throw applications, ideal for Nightclub, Performance art center, Multi-function hall etc. mid-sized venues sound reinforcement.

AH系列是一款两分频系统，低频部分包含有一只特别定做的低频换能器，高频部分包含有一只2寸的压缩式高频驱动器加载在一个特别设计的波导器安装在轻便结实的声学箱体体内，为解决各种场合扩声提供满意的扩声方案。

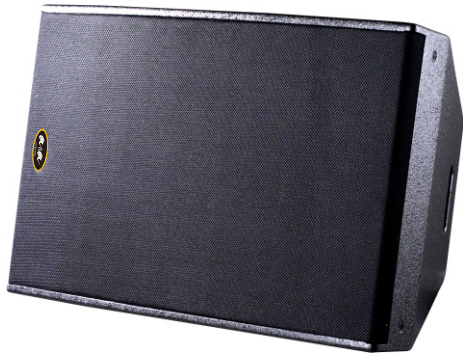
The AH series is a passive two way system, the low section included a customized cone driver, high section included a 2" compression driver loaded a special design waveguide on a optimized acoustic enclosure which offer a satisfy solution to any size of venues sound reinforcement.

AH系列包括有AH1502(单15寸), AH1202(单12寸) 耦合阵列扬声器系统。AH可根据声场环境需要进行灵活吊挂堆叠使用，垂直或水平组合成多种矩阵列覆盖。

The AH series included AH1502, AH1202 coupling array loudspeaker system. AH can be deployed in tightly-packed array clusters to deliver horizontal coverage, they can also be used vertically when necessary.

### Technical specifications 技术参数

Model 型号:	AH 1502	AH 1202
Frequency range 频率响应:	60 Hz to 18 kHz	80 Hz to 18 kHz
Sensitivity 灵敏度:	LF: 100 dB, HF:110dB	LF: 98 dB, HF:110dB
Max.SPL 声压级:	127 / 133 dB SPL	125 / 131 dB SPL
Nominal impedance 输入阻抗:	LF:8 Ω; HF:16Ω	LF:8 Ω; HF:16Ω
Coverage(H°x V°)覆盖角度:	水平90°,垂直40°	水平90°,垂直40°
Components 元器件:	15" LF + 2" HF	12" LF + 2" HF
Power rated(AES) 输出功率:	500W / 80W	400W / 80W
Connectors 连接器:	2 x NL4MP	2 x NL4MP
Dimensions(HxWxD) 箱体尺寸:	760 x 448x 413 mm	725 x 416x 365 mm
Net Weight 净重:	32kg	26kg



**a&a** VQ系列是一款紧凑的两路扬声器系统, 根据箱体声学结构使用量身定做高性能单元配件和基于现代电声学理论, 运用号筒加载技术, 专为高端娱乐类和高性能固定安装类扩声应用而设计。

**a&a** VQ series is a compact two way loudspeaker system which is based on the custom-made premium units to the construction and the latest acoustical theory especially special horn loaded technology, VQ is designed for high quality entertainment and high performance fixed installations applications.

VQ系列是一款两分频系统, 低频部分包含有一只特别定做的低频换能器, 高频部分包含有一只2寸的压缩式高频驱动器加载在一个特别设计可作90°旋转的波导管安装在轻便结实的声学箱体内, 为解决各种场合扩声提供满意的扩声方案。

The VQ series is a passive two way system, the low section included a customized cone driver, high section included a 2" compression driver loaded a special designed and can be rotatable 90° waveguide on a optimized acoustic enclosure which offer a satisfy solution to any size of venues sound reinforcement.

VQ系列包括有VQ152(单15寸), VQ122(单12寸) 扬声器系统。VQ号筒可作90°旋转调整以迎合各种声场环境覆盖使用需要。

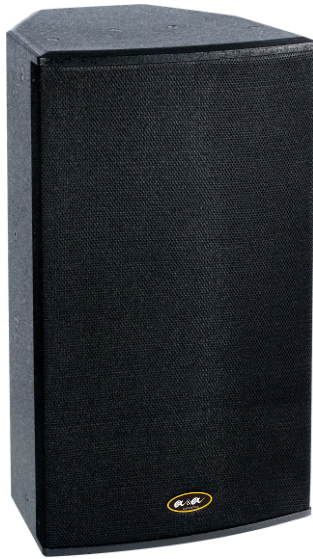
The VQ series included VQ152, VQ122 loudspeaker system. VQ can be 90° rotatable adjustment in high frequency to meet the coverage for any sizes of venues.

### Technical specifications 技术参数

Model 型号:	VQ 152	VQ 122
Frequency range 频率响应:	60 Hz to 18 kHz	65 Hz to 18 kHz
Sensitivity 灵敏度:	100 dB	98 dB
Max.SPL 声压级:	127 / 130 dB SPL	124 / 127 dB SPL
Nominal impedance 输入阻抗:	8 Ω	LF:8 Ω; HF:16Ω
Coverage(H°x V°)覆盖角度:	水平80°,垂直50°	水平80°,垂直50°
Components 元器件:	15" LF + 2" HF	12" LF + 2" HF
Power rated(AES) 输出功率:	500W	400W
Connectors 连接器:	2 x NL4MP	2 x NL4MP
Dimensions(HxWxD) 箱体尺寸:	719 x 461x 440 mm	620 x 390x 400 mm
Net Weight 净重:	25kg	22kg

# PX SERIES

## 2-WAY SYSTEM



**a&a** PX系列是一款紧凑的两路扬声器系统, 根据箱体声学结构使用量身定做高性能单元配件和基于现代电声学理论, 运用号筒加载技术, 专为高端娱乐类和高性能固定安装类扩声应用而设计。

**a&a** PX series is a compact two way loudspeaker system which is based on the custom-made premium units to the construction and the latest acoustical theory especially special horn loaded technology, PX is designed for high quality entertainment and high performance fixed installations applications.

PX系列是一款两分频系统, 低频部分包含有一只特别定做的低频换能器, 高频部分包含有一只2寸的压缩式高频驱动器加载在一个特别设计可作90°旋转的波导器安装在轻便结实的声学箱体内部, 为解决各种场合扩声提供满意的扩声方案。

The PX series is a passive two way system, the low section included a customized cone driver, high section included a 2" compression driver loaded a special designed and can be rotatable 90° waveguide on a optimized acoustic enclosure which offer a satisfy solution to any size of venues sound reinforcement.

PX系列包括有PX15(单15寸), PX12(单12寸), PX10(单10寸) 扬声器系统。PX号筒可作90°旋转调整以迎合各种声场环境覆盖使用需要。

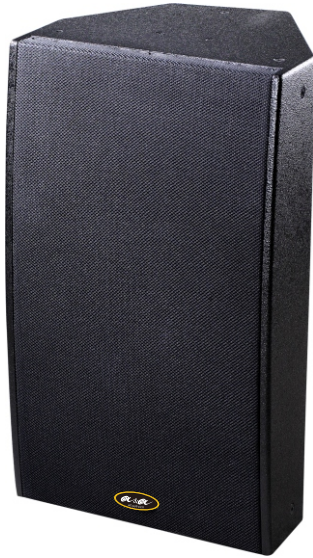
The PX series included PX15, PX12, PX10 loudspeaker system. PX can be 90° rotatable adjustment in high frequency to meet coverage for any sizes of venues.

### Technical specifications 技术参数

Model 型号:	PX 15	PX 12	PX 10
Frequency range 频率响应:	60 Hz to 18 kHz	65 Hz to 18 kHz	65 Hz to 18 kHz
Sensitivity 灵敏度:	98 dB	97 dB	96 dB
Max.SPL 声压级:	124 / 127 dB SPL	123 / 126 dB SPL	120 / 123 dB SPL
Nominal impedance 输入阻抗:	8 Ω	8 Ω	8 Ω
Coverage(H°x V°)覆盖角度:	水平90°,垂直60°	水平90°,垂直60°	水平90°,垂直60°
Components 元器件:	15" LF + 2" HF	12" LF + 2" HF	10" LF + 2" HF
Power rated(AES) 输出功率:	400W	350W	250W
Connectors 连接器:	2 x NL4MP	2 x NL4MP	2 x NL4MP
Dimensions(HxWxD) 箱体尺寸:	688 x 440x 396 mm	600 x 380x 377 mm	520 x 330x 295 mm
Net Weight 净重:	25.5kg	22kg	18.5kg

# AQ SERIES

## 2-WAY COAXIAL SYSTEM



**a&a** AQ系列是一款紧凑的两路同轴扬声器系统，根据箱体声学结构使用量身定做高性能单元配件和基于现代电声学理论，运用点声源同轴技术，专为高端娱乐类和高性能固定安装类扩声应用而设计。

**a&a** AQ series is a compact two way coaxial loudspeaker system which is based on the custom-made premium units to the construction and the latest acoustical theory especially point source coaxial technology, AQ is designed for high quality entertainment and high performance fixed installations applications.

AQ 系列是一款无源的两分频系统，低频部分包含有一只特别定做的低频换能器，高频部分包含一个1.75寸的压缩式高频驱动器，与低频换能器安装在一个同轴结构内，提供90°圆锥角的覆盖，为解决各种场合扩声提供满意的扩声方案。

The AQ series is a passive two way system, the low section included a customized cone driver, high section included a 1.75" compression driver assembled in a coaxial configuration along with low section providing a conical 90° coverage which offer a satisfy solution to any size of venues sound reinforcement.

AQ系列包括有AQ380C(单15寸), AQ300C(单12寸), AQ250C(单10寸), AQ200C(单8寸) 同轴扬声器系统。通过精心设计的分频网络优化了频响曲线,使频响更加均匀,低频弹性更佳,中频饱满,高频细腻响亮,使得人声表现圆润温厚。

The AQ series included AQ380C, AQ300C, AQ250C, AQ200C loudspeaker system. AQ used the special design crossover network optimize frequency response deliver remarkable vocal presence, clarity and high feedback stability.

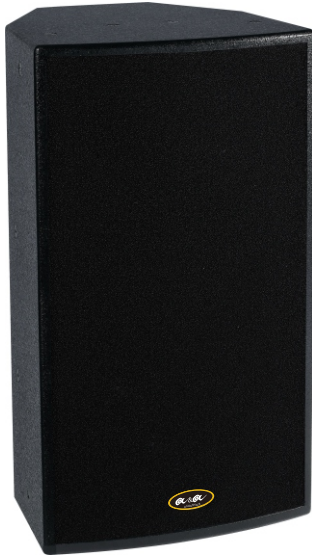
### Technical specifications 技术参数

Model 型号:	AQ 380C	AQ 300C	AQ 250C	AQ 200C
Frequency range 频率响应:	60 Hz to 18 kHz	60 Hz to 18 kHz	65 Hz to 18 kHz	70 Hz to 18 kHz
Sensitivity 灵敏度:	98 dB	98 dB	97 dB	95 dB
Max. SPL 声压级:	125 / 128 dB SPL	123 / 126 dB SPL	121 / 124 dB SPL	117 / 120 dB SPL
Nominal impedance 输入阻抗:	8 Ω	8 Ω	8 Ω	8 Ω
Coverage(H°x V°)覆盖角度:	圆锥形 conical 90°	圆锥形 conical 90°	圆锥形 conical 90°	圆锥形 conical 90°
Components 元器件:	15" LF + 1.75" HF	12" LF + 1.75" HF	10" LF + 1.75" HF	8" LF + 1" HF
Power rated(AES) 输出功率:	450W	350W	250W	150W
Connectors 连接器:	2 x NL4MP	2 x NL4MP	2 x NL4MP	2 x NL4MP
Dimensions(HxWxD) 箱体尺寸:	668 x 455x 406 mm	550 x 385x 340 mm	500 x 320x 310 mm	268 x 280x 280 mm
Net Weight 净重:	27kg	22.5kg	19.5kg	8kg



# CF SERIES

## 2-WAY SYSTEM



**a&a** CF系列是一款紧凑的两路扬声器系统，根据箱体声学结构使用量身定做高性能单元配件和基于现代电声学理论，专为高端娱乐类、流动演出类和高性能固定安装类扩声多功能应用而设计。

**a&a** CF series is a compact two way loudspeaker system which is based on the custom-made premium units to the construction and the latest acoustical theory, CF is designed for high quality entertainment, touring and high performance fixed installations multi-purpose applications.

CF系列是一款无源的两分频系统，低频部分包含有一只特别定做的低频换能器，高频部分包含一个1.75寸的压缩式高频驱动器安装在一个在恒指向波导器上，提供了90°水平覆盖和60°的垂直覆盖，为解决各种场合扩声提供满意的扩声方案。

The CF series is a passive two way system, the low section included a customized cone driver, high section included a 1.75" compression driver loaded on a special design 90°(H) x 60°(V) constant directivity horn which offer a satisfy solution to any size of venues sound reinforcement.

CF系列包括有CF252(双15寸)，CF15(单15寸)，CF12(单12寸)，CF10(单10寸)，CF8(单8寸)扬声器系统。通过精心设计的分频网络优化了频响曲线，使频响更加均匀，低频弹性更佳，中频饱满，高频细腻响亮，使得人声表现圆润温厚。

The CF series included CF252, CF15, CF12, CF10, CF8 loudspeaker system. CF used the special design crossover network optimize frequency response deliver remarkable vocal presence, clarity and high feedback stability.

### Technical specifications 技术参数

Model 型号:	CF 252	CF 15	CF 12	CF 10	CF 8
Frequency range 频率响应:	50 Hz to 18 kHz	60 Hz to 18 kHz	65 Hz to 18 kHz	70 Hz to 18 kHz	70 Hz to 18 kHz
Sensitivity 灵敏度:	100 dB	98 dB	98 dB	96 dB	93 dB
Max.SPL 声压级:	130 / 133 dB SPL	124 / 127 dB SPL	123 / 126 dB SPL	120 / 123 dB SPL	115 / 118 dB SPL
Impedance 输入阻抗:	4 Ω	8 Ω	8 Ω	8 Ω	8 Ω
Coverage(H°x V°)覆盖角度:	水平90°,垂直60°	水平90°,垂直60°	水平90°,垂直60°	水平90°,垂直60°	水平90°,垂直50°
Components 元器件:	2x15" LF+3" HF	15" LF+1.75" HF	12" LF+1.75" HF	10" LF+1.75" HF	8" LF+1.3" HF
Power rated(AES) 输出功率:	1000W	400W	300W	250W	150W
Connectors 连接器:	2 x NL4MP	2 x NL4MP	2 x NL4MP	2 x NL4MP	2 x NL4MP
Dimensions(HxWxD)尺寸:	1137x522x510 mm	688x440x396 mm	600x380x377 mm	520x330x295 mm	428x254x251 mm
Net Weight 净重:	53kg	23.5kg	19kg	14.5kg	9.5kg

# AK SERIES

## 2-WAY SYSTEM



**a&a** AK系列是一款紧凑的两路扬声器系统，根据箱体声学结构使用量身定做高性能单元配件和基于现代电声学理论，运用可90°旋转号筒加载技术和后导向技术，专为高端娱乐类和高性能固定安装类扩声应用而设计。

**a&a** AK series is a compact two way loudspeaker system which is based on the custom-made premium units to the construction and the latest acoustical theory especially special rotatable 90° horn loaded technology and back vent placement design, AK is designed for high quality entertainment and high performance fixed installations applications.

AK系列是一款两分频系统，低频部分包含有一只特别定做的低频换能器，高频部分包含有一只1.75寸的压缩式高频驱动器加载在一个特别设计可作90°旋转的波导器安装在轻便结实的声学箱体内部，为解决各种场合扩声提供满意的扩声方案。

The AK series is a passive two way system, the low section included a customized cone driver, high section included a 1.75" compression driver loaded a special designed and can be rotatable 90° waveguide on a optimized acoustic enclosure which offer a satisfy solution to any size of venues sound reinforcement.

AK系列包括有AK12(单12寸), AK10(单10寸), AK8(单8寸)扬声器系统。AK号筒可作90°旋转调整以迎合各种声场环境覆盖使用需要。

The AK series included AK12, AK10, AK8 loudspeaker system. AK can be 90° rotatable adjustment in high frequency to meet coverage for any sizes of venues.

### Technical specifications 技术参数

Model 型号:	AK 12	AK 10	AK 8
Frequency range 频率响应:	65 Hz to 18 kHz	65 Hz to 18 kHz	65 Hz to 18 kHz
Sensitivity 灵敏度:	97 dB	96 dB	94 dB
Max.SPL 声压级:	122 / 125 dB SPL	120 / 123 dB SPL	117 / 120 dB SPL
Nominal impedance 输入阻抗:	8 Ω	8 Ω	8 Ω
Coverage(H°x V°)覆盖角度:	水平90°,垂直60°	水平90°,垂直60°	水平90°,垂直60°
Components 元器件:	12" LF + 1.75" HF	10" LF + 1.75" HF	8" LF + 1.3" HF
Power rated(AES) 输出功率:	350W	250W	180W
Connectors 连接器:	2 x NL4MP	2 x NL4MP	2 x NL4MP
Dimensions(HxWxD) 箱体尺寸:	606 x 380x 395 mm	520 x 330x 320 mm	428 x 254x 251 mm
Net Weight 净重:	21kg	14.5kg	11kg

# MA SERIES

## 2-WAY STAGE MONITOR SYSTEM



**a&a** MA系列是一款紧凑的两路舞台返听扬声器系统，根据箱体声学结构使用量身定做高性能单元配件和基于现代电声学理论，运用可90°旋转号筒加载技术，箱体设计提供45°和60°的摆放角度以满足常规的舞台返听要求，专为高端娱乐类和高性能固定安装类扩声应用而设计。

**a&a** MA series is a compact two way stage monitor loudspeaker system which is based on the custom-made premium units to the construction and the latest acoustical theory especially special rotatable 90° horn loaded technology, The MA comprises two angles side, 45° and 60° for stage monitor application. MA is designed for high quality entertainment and high performance fixed installations applications.

MA系列是一款两分频系统，低频部分包含有一只特别定做的低频换能器，高频部分包含有一只1.75寸的压缩式高频驱动器加载在一个特别设计可作90°旋转的波导器安装在轻便结实的声学箱体内部，为解决各种场合扩声提供满意的扩声方案。

The MA series is a passive two way system, the low section included a customized cone driver, high section included a 1.75" compression driver loaded a special designed and can be rotatable 90° waveguide on a optimized acoustic enclosure which offer a satisfy solution to any size of venues sound reinforcement.

MA系列包括有MA15(单15寸)，MA12(单12寸)舞台返听扬声器系统。MA号筒可作90°旋转调整以迎合各种声场环境覆盖使用需要。

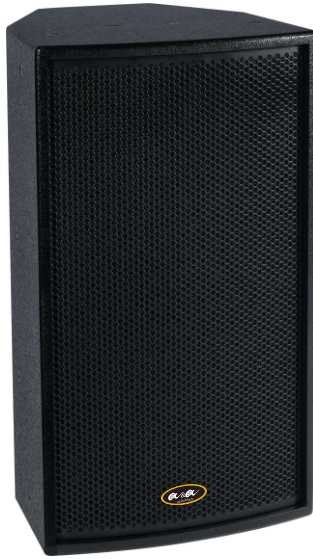
The MA series included MA15, MA12 stage monitor loudspeaker system. MA can be 90° rotatable adjustment in high frequency to meet coverage for any sizes of venues.

### Technical specifications 技术参数

Model 型号:	MA 15	MA 12
Frequency range 频率响应:	60 Hz to 18 kHz	65 Hz to 18 kHz
Sensitivity 灵敏度:	98 dB	98 dB
Max.SPL 声压级:	124 / 130 dB SPL	122 / 128 dB SPL
Nominal impedance 输入阻抗:	8 Ω	8 Ω
Coverage(H°x V°)覆盖角度:	水平90°,垂直60°	水平90°,垂直60°
Components 元器件:	15" LF + 1.75" HF	12" LF + 1.75" HF
Power rated(AES) 输出功率:	400W	300W
Connectors 连接器:	2 x NL4MP	2 x NL4MP
Dimensions(HxWxD) 箱体尺寸:	680 x 460x 450 mm	620 x 440x 430 mm
Net Weight 净重:	25kg	20kg

# KF SERIES

## 2-WAY SYSTEM



**a&a** KF系列是一款紧凑的两路扬声器系统，根据箱体声学结构使用量身定做高性能单元配件和基于现代电声学理论，运用可90°旋转号筒加载技术，专为高端娱乐类和高性能固定安装类扩声应用而设计。

**a&a** KF series is a compact two way loudspeaker system which is based on the custom-made premium units to the construction and the latest acoustical theory especially special rotatable 90° horn loaded technology, KF is designed for high quality entertainment and high performance fixed installations applications.

KF系列是一款两分频系统，低频部分包含有一只特别定做的低频换能器，高频部分包含有一只1.75寸的压缩式高频驱动器加载在一个特别设计可作90°旋转的波导器安装在轻便结实的声学箱体内，为解决各种场合扩声提供满意的扩声方案。

The KF series is a passive two way system, the low section included a customized cone driver, high section included a 1.75" compression driver loaded a special designed and can be rotatable 90° waveguide on a optimized acoustic enclosure which offer a satisfy solution to any size of venues sound reinforcement.

KF系列包括有KF15(单15寸)，KF12(单12寸)，KF10(单10寸)扬声器系统。KF号筒可作90°旋转调整以迎合各种声场环境覆盖使用需要。

The KF series included KF15, KF12, KF10 loudspeaker system. KF can be 90° rotatable adjustment in high frequency to meet coverage for any sizes of venues.

### Technical specifications 技术参数

Model 型号:	KF 15	KF 12	KF 10
Frequency range 频率响应:	65 Hz to 18 kHz	65 Hz to 18 kHz	65 Hz to 18 kHz
Sensitivity 灵敏度:	97 dB	96 dB	95 dB
Max.SPL 声压级:	123 / 126 dB SPL	121 / 124 dB SPL	117 / 120 dB SPL
Nominal impedance 输入阻抗:	8 Ω	8 Ω	8 Ω
Coverage(H°x V°)覆盖角度:	水平90°,垂直60°	水平90°,垂直60°	水平90°,垂直60°
Components 元器件:	15" LF + 1.75" HF	12" LF + 1.75" HF	10" LF + 1.3" HF
Power rated(AES) 输出功率:	400W	300W	200W
Connectors 连接器:	2 x NL4MP	2 x NL4MP	2 x NL4MP
Dimensions(HxWxD) 箱体尺寸:	688 x 440x 396 mm	600 x 380x 377 mm	520 x 330x 295 mm
Net Weight 净重:	19kg	16kg	10kg

# MB SERIES

## SUBWOOFER SYSTEM



**a&a** MB系列是一款紧凑的超低频扬声器系统, 根据箱体声学结构使用量身定做高性能单元配件和基于现代电声学理论, 专为高端娱乐类、流动演出类和高性能固定安装类低频扩展多功能应用而设计。

**a&a** MB series is a compact subwoofer loudspeaker system which is based on the custom-made premium units to the construction and the latest acoustical theory, MB is designed for high quality entertainment, touring and high performance fixed installations bass extension multi-purpose applications.

MB系列是一款无源超低频系统, 低频部分包含有特别定做低失真带冷却设计的长冲程低频换能器以前负载方式安装在特别设计的轻便结实的声学箱体内, 为解决各种场合长时间工作扩声提供满意的低频扩展扩声方案。

The MB series is a passive subwoofer system, the low section included the customized transducers front loaded in a special design optimized acoustic enclosure which offer a satisfy solution to any size of venues sound reinforcement.

MB系列包括有MB28(双18寸), MB18(单18寸), 高端款: MB28S(双18寸), MB18S(单18寸), MB15S(单15寸)超低频扬声器系统。MB系列是A&A全频系列和线阵列系列的匹配超低扬声器, 搭配一起使用能够构建满足各种户内外场合使用的扩声系统。

The MB series included MB28, MB18, MB28S, MB18S, MB15S subwoofer loudspeaker system. MB is the companion subwoofer to A&A full range loudspeakers and line arrays, together with them, it can build a powerful system for any scale of indoor/outdoor audio events.

### Technical specifications 技术参数

Model 型号:	MB 28S	MB 18S	MB 15S	MB 28	MB 18
Frequency range 频率响应:	35 Hz to 250 Hz	35 Hz to 250 Hz	40 Hz to 250 Hz	38 Hz to 280 Hz	38 Hz to 350 Hz
Sensitivity 灵敏度:	105 dB	103 dB	101 dB	104 dB	101 dB
Max. SPL 声压级:	137 / 140 dB SPL	132 / 135 dB SPL	128 / 131 dB SPL	135 / 138 dB SPL	129 / 132 dB SPL
Impedance 输入阻抗:	4 Ω	8 Ω	8 Ω	4 Ω	8 Ω
Coverage(H°x V°)覆盖角度:	-----	-----	-----	-----	-----
Components 元器件:	2x18" LF	1x18" LF	1x15" LF	2x18" LF	1x18" LF
Power rated(AES) 输出功率:	1600W	800W	500W	1200W	600W
Connectors 连接器:	2 x NL4MP	2 x NL4MP	2 x NL4MP	2 x NL4MP	2 x NL4MP
Dimensions(HxWxD)尺寸:	615x1036x718 mm	615x662x635 mm	450x600x498 mm	615x1036x718 mm	615x662x635 mm
Net Weight 净重:	84kg	48.6kg	32kg	70kg	42kg

# TA SERIES

## POWER AMPLIFIER

**a&a** TA系列是一款高质量、体积小、高效率的功率放大器，专门为流动演出类，娱乐类，固定安装类扩声应用而设计。TA通过特别设计高效率的平衡输出电路，与传统的大功率功放相比，大大地降低配电要求。TA基于平衡电路、可靠的环形变压器供电设计和接地桥路技术使此款功放具有高效和高音质，重量轻和的性能特点。

The TA series amplifiers are a range of premium quality, compact size, high power amplifiers designed for live performance use as well as for permanent installations. Thanks to the high efficiency of the balance output circuit, dramatically reduce power distribution demands compared to older high power amplifiers.

The TA series are based on the balance circuitry (absoluteness symmetry bridge circuit) and reliable toroidal transformer power supply for power efficiency and high quality sound performance.



### Technical specifications 技术参数

Model 型号:	TA 400	TA 600	TA 800	TA 1200
Frequency range 频率响应:	20 Hz to 20 kHz	20 Hz to 20 kHz	20 Hz to 20 kHz	20 Hz to 20 kHz
Max output 输出功率:	2x400W / 8Ω 2x600W / 4Ω	2x600W / 8Ω 2x850W / 4Ω	2x800W / 8Ω 2x1200W / 4Ω	2x1200W / 8Ω 2x1800W / 4Ω
THD at full rated power: 总谐波失真,在4Ω/1kHz时	<0.03%	<0.03%	<0.03%	<0.03%
Input sensitivity 输入灵敏度:	0.7V/1V/1.4V	0.7V/1V/1.4V	0.7V/1V/1.4V	0.7V/1V/1.4V
Input impedance 输入阻抗:	平衡 Balanced >20kΩ, 不平衡 Unbalanced > 10kΩ			
Damping factor 阻尼系数:	>1000	>1000	>1800	>1800
Signal-to-Noise(Full power): A加权,信噪比(满功率在4Ω时)	>105dB	>105dB	>105dB	>105dB
Protection 保护:	Protected against: Shorted loaded; overloaded power supplies; excessive temperature; Chain destruction phenomena; input overload damage; and high-frequency blowups. Protect loudspeakers from input / output DC, RF interference is an auto limiter. 直流保护,内部故障保护,输入过载保护,射频干扰滤波器,输出短路保护,保护不匹配负载及高频过载保护散热器及变压器过温保护,电源输入过电流保护(过电流保护开关)			
Digital voltage limit factor: 数码压限控制阈值	0.775-8V	0.775-8V	0.775-8V	0.775-8V
Input Connectors 输入连接:	2 x XLR3	2 x XLR3	2 x XLR3	2 x XLR3
Output Connectors 输入连接:	Two sets of color-coded and two sets Neutrik Speakon NL4MP 2组接线柱, 2x Neutrik speakon NL4			
Cooling 冷却:	Rear-to-front, 3-stage-fans 由后至前, 三级自动温度调节风扇			
Work mode 工作方式:	Earthed bridge circuit 接地桥路			
Work voltage 工作电压:	AC 220-240V / 50-60Hz			
Power consumption 功耗:	2600W	2600W	2600W	3500W
Dimensions(HxWxD)尺寸:	482x89x485 mm	482x89x485 mm	482x89x485 mm	482x89x485 mm
Net Weight 净重:	26kg	26kg	27kg	38kg

# DS SERIES

## DIGITAL MATRIX PROCESSOR

- » 96kHz sampling rate, 32-SHARC DSP processor, 24-bit AD/DA convertor. 96kHz采样率, 32位DSP SHARC芯片处理, 24 bit AD/DA转换。
- » Input processing includes Gain, Mute, Noise gate, Link, High/Low cut, 8PEQ Phase, Delay. 输入处理部分包含:  
高切, 低切, 8个参量均衡, 噪声门, 增益, 静音, 相位, 延时, 联动调节等处理功能。
- » Output processing includes Crossover, 9PEQ, Gain, Mute, Compressor Limiter, Phase, Delay, Link. 输出处理部分包含:  
分频, 9个参量均衡, 增益, 静音, 压缩/限幅器, 相位, 延时, 联动调节等处理单元。
- » Every input and output can do Matrix assign freely. 所有输入输出之间可以自行进行矩阵式分配。
- » Adjustable PEQ frequency, Gain and Bandwidth, the gain step is 0.1dB, we can choose style: Peak, H-shelf, L-shelf, Low-cut, High-cut. 所有通道的PEQ增益, 带宽, 频率连续可调, 类型可选择: 参量均衡、低架滤波、高架滤波、低切滤波、高切滤波、移相1阶、移相2阶。
- » The style of all High-cut, Low-cut filter and Distributor Unit: Butterworth, Linkwitz- Riley, Bessel, Slope is -6dB/oct ~ -48dB/oct. 所有高切、低切滤波器, 分频器的类型可选择: 巴特沃斯, 林奎瑞利, 贝塞尔, 斜率在-6dB/Oct至-48dB/Oct可选。
- » Parameter setting of each channel can copy freely, build-in signal generator. 任意通道之间参数设置可以自由复制, 以及任意通道可以进行联动调节。
- » All delay module's delay time can reach over 682ms, the step is 0.021ms. 所有输入输出通道的延时模块都具有高达680ms的延时时间, 每级是0.021ms。
- » The parameters of input and output adjusting are linkable, revisable input and output channels. 输入和输出通道参数可以自由调整和修改。
- » Adjustable compressor/limiter threshold, ratio, attack time and release time, Adjustable threshold attack time, release time, keep time of all noise gate. 输出通道的压缩/限幅器的阈值, 比率, 启动时间, 恢复时间连续可调。
- » Input and Output on the front panel are equipped with 5-segment high precision level indicators, key indicators, security protection function. 前面板输入和输出通道各带有5段高精度LED用于电平, 主要及安全保护指示。
- » 30 user preset, 1 factory preset, device parameter and single preset file can save in computer; it also can download from computer and save in the device. The device itself can store multiple preset parameters and recall freely. PC operation software for one-click online made the operation more convenient. 30个用户预设, 1个工厂预设, 整机状态和每个预设都可以单独存储在电脑和调用, 也可以从电脑下载和存储设备预设; 也可以从电脑下载和在设备存储预设。设备可以存储多个预设参数和自由回放。通过PC操作软件一键式连机使操作更方便。
- » USB and RS232 controlling ports, Online remote control and 255 units linkable through RS485. 可以通过USB或RS232端口实现远程实时控制。通过RS485方式实现多大256台的系统级联。



Model 型号 : DS204 / DS206 / DS306 / DS408

### System specification 系统参数:

Frequency response 频响: 20Hz-20kHz, -0.3dBu

S/N Ratio 信噪比: >115 dBu

Distortion(THD) 失真: <0.005 at 1kHz(0dBu)

Cross-talk 串音: <100dB below full scale

24-bit sigma delta converters 转换器

96kHz Sampling rates 采样率

Dot matrix screen display 点阵屏幕显示

Power supply: AC95V-240V FUSE 250VAC/2A FAST

Dimension尺寸(LxWxH): 48x20.5x4.4CM

Weight Net 净重: 2.3KG

### Input section 输入部分:

Type 类型: 平衡Balanced XLR

Max. Input level 最大输入电平: +18dBu

Impedance 阻抗: 1M/Ω Stereo; 500kΩ/MONO

### Output section 输出部分:

Type 类型: 平衡Balanced XLR

Max. Input level(bypass) 最大输入电平: +18dBu

Impedance 阻抗: <500 Ω

### Accessories 附件:

CD光盘(Include PC software and user's manual).

One USB cord. USB 连接线

One electrical cord. 电源线

# DK SERIES

## KARAOKE EFFECT PROCESSOR

### DK 501

- » 96kHz sampling rate, 32-bit DSP processor, 24-bit AD/DA convertor.  
96kHz采样率, 32位DSP SHARC芯片处理, 24 bit AD/DA转换。
- » 2 independent MIC processor, 4 MIC input can be connected, with independent gain control, phase, limiter, noise gate, optional types low cut, 20 band PEQ, exciter( parameter can be adjusted and saved)  
2路独立话筒通道处理, 同时可接4路话筒输入, 分别带独立增益控制, 相位, 限制器, 噪声门, 可选类型的低切, 20段参量均衡, 激励(参数可调可保存)
- » MIC effect with master volume control, limiter; ECHO with 5 band PEQ( can be low/high cut), mode A and mode B effect can be chosen, stereo and mono effect can be chosen, delay, repeat and pre delay parameter can be adjusted separately; REVERB with 5 band PEQ( can be low/high cut), pre delay, time, parameter adjust, and direct sound effect processor  
话筒效果有总音量控制, 限制器; ECHO带5段参量均衡(可做高低切), 模式A、模式B效果可选, 立体声和单回声效果可选以及延时, 重复, 预延时参数独立可调; REVERB带5段参量均衡(可做高低切), 有预延时, 时间调整; 另外还有直达声效果处理
- » Music channel with master volume control, limiter, noise gate, optional types low cut, 10 band PEQ( parameter can be adjusted and saved), key shift. 2 stereo music input, automatic and manual switching mode can be chosen, 1 optical input and 1 coaxial input included  
音乐通道具有总音量控制, 限制器, 噪声门, 可选类型的低切, 10段参量均衡(参数可调可保存)等处理模块。2路立体声音乐输入, 可选择自动和手动切换模式。还配有1路光纤输入和1路同轴输入
- » 5.1 channel output: L/R output, center output, AUX output. Subwoofer output  
5.1声道输出: 左右输出, 中置输出, 辅助输出, 超低音输出
- » L/R output with independent volume control, mute, compressor( parameter can be adjusted), 5 band PEQ(can be high cut), L/R delay  
左右输出具有独立音量控制, 静音, 压缩(参数可调), 5段参量均衡, 左右延时等处理模块
- » Center output with independent volume control, mute, compressor( parameter can be adjusted), 5 band PEQ(can be high cut), delay  
中置输出具有独立音量控制, 静音, 压缩(参数可调), 5段参量均衡(可做高切), 延时等处理模块
- » AUX output with independent volume control, mute, compressor( parameter can be adjusted), 10 band PEQ( can be low/high cut), L/R delay  
辅助输出具有独立音量控制, 静音, 压缩(参数可调), 10段参量均衡(可做高低切), 左右延时等处理模块



#### System specification 系统参数:

Frequency response 频响: 20Hz-20kHz, +/-0.5dB

S/N Ratio 信噪比: >80 dBu

Distortion (THD) 失真: <0.01% at 1kHz (-10dBv)

Cross-talk 串音: <100dB below full scale

24-bit sigma delta converters 转换器

96kHz Sampling rates 采样率

Dot matrix screen display 点阵屏幕显示

Power supply: AC220V 50Hz

Dimension 尺寸 (LxWxH): 483x218.5x47.5mm

Weight Net 净重: 3.5KG

#### MIC Input section 麦克风输入部分:

Type 类型: 不平衡 Unbalanced JACK XLR

Max. Gain 最大增益: +45dBu

Max. Input level 最大输入电平: +12dBu

Impedance 阻抗: 600Ω

#### Music Input section 音乐输入部分:

Type 类型: 平衡 Balanced XLR

Max. Input level 最大输入电平: +20dBu

Impedance 阻抗: 1MΩ/Stereo; 500kΩ/Mono

#### Output section 输出部分:

Type 类型: 平衡 Balanced XLR

Max. Input level (bypass) 最大输入电平: +12dBu

Impedance 阻抗: <500 Ω

#### Accessories 附件:

One RS232 cord. USB 连接线

One electrical cord. 电源线



# KG SERIES

## WIRELESS MICROPHONE SYSTEM

### KG 9000

320selectable UHF frequencies and True Diversity reception for interference-resistant operation.

The transmitters offer durable,magnesium bodies,soft-touch controls.

Press the“AFS”(Auto Frequency Selection)button 3S and the receiver will auto-scan and lock on to an open,interference-free frequency. press[IR]button to upload automatically the receiver frequency to the transmitter.

PLL(Phase Lock Loop frequency control)design ensures transmission reliability,“Noise Lock”squelch effectively blocks stray RF.

EIA-standard metal 1-rack receiver chassis,offering programmable features,with high-visibility LCD display.

Battery life is twice as common,up to 15 hours.

HR series provide incredible audio quality and outstandingly reliable performance for artists,broadcasters and other demanding audio environments.

#### RECEIVER:

Main Frame Size: EIA STANDARD 1 U

Channels: Dual Channel

Frequency Stability:  $\pm 0.0005\%$ ,Phase Lock Loop frequency control

Carrier Frequency Range: UHF 740-820MHz

Modulation Mode: FM

Operating Range: 100M typical (in open space)

Oscillation: PLL synthesized

sensitivity: 5dB  $\mu$ V, S/N>60dB at 25 deviation

Band Width: 40MHz

S/N: >108 dB

T.H.D. : <0.4% @ 1 KHz

Integrated frequency response: 65Hz~18kHz  $\pm 3$ dB

Power Supply: 100-240V AC50/60Hz,10W

Weight: 4.3KG

Dimension(mm): 421(L) $\times$ 43(H) $\times$ 206(W)

#### WIRELESS MICROPHONE:

Carrier Frequency Range: UHF 740-820MHz

Oscillation: PLL synthesized

Harmonic radiation: < - 63dBm

Bandwidth: 80MHz

Max.Deviation Range:  $\pm 45$ KHz

Microphone Element: Cardioid Dynamic

RF Power Output: 8mW ; 8mW / 15mW(Selectable)

Battery: AA $\times$ 2

Current Consumption: 90 mA

Battery Current / Life: Almost 6 Hours

Dimension(mm): 265mm(L) $\times$ 56mm(diameter)



KG9000 无线专业话筒系统是一款适合KTV演唱专用的无线话筒系统，采用众多领先业内的高新技术设计于一身：超高频段（UHF）传输、真正分集式接收、双CPU控制、液晶显示、金属外壳，PLL锁相环技术、杂讯检测等，具有160个频点可调、易于操作的优点。

采用微电脑CPU控制：系统整个硬件电路由微电脑进行控制，可以进行选频、显示、静音锁定、电池容量监测等处理，实现传统机型不易实现的各种功能。

液晶显示：采用高性能的液晶进行显示，所有的控制菜单均可以在液晶屏进行显示，便于对系统进行控制。

#### 接收机参数:

机箱规格：标准 1U 机箱

频道组数：双通道

载波频段：UHF 740 ~ 820MHz

调制方式：FM

振荡方式：相位锁定频率合成器

灵敏度：在偏移度等于 25KHz，输入 6dB $\mu$ V 时，S/N>60dB

最大偏移度： $\pm 45$ KHz

频带宽度：24MHz

综合 S/N 比：> 100 dB

综合 T.H.D. : <0.5% @ 1 KHz

综合频率响应：50Hz~18kHz $\pm 3$ dB,

最大输出电压：平衡式：-20dBV/100 $\Omega$ ,

非平衡式：-4dBV/5K $\Omega$ .

输出插座：XLR 平衡式及 6.3 $\phi$  不平衡式插座

AC 电源供应：0.5A, 12 ~ 15VDC

尺寸 (mm) : 421(L) $\times$ 43(H) $\times$ 206(W)

#### 手持式发射话筒参数:

载波频段：UHF 740 ~ 820MHz

振荡模式：相位锁定频率合成器

功率输出：10mW

频率响应：50Hz~18KHz

最大输入声压：130dB SPL

音头：动圈式

电池：AA $\times$ 2

电流消耗：< 110 mA

尺寸 (mm) : 265mm 长  $\times$  56mm 直径

# SK SERIES

## WIRELESS MICROPHONE SYSTEM

### SK-268

320selectable UHF frequencies and True Diversity reception for interference-resistant operation.

The transmitters offer durable, magnesium bodies, soft-touch controls.

Press the "AFS" (Auto Frequency Selection) button 3S and the receiver will auto-scan and lock on to an open, interference-free frequency. Press [IR] button to upload automatically the receiver frequency to the transmitter.

PLL (Phase Lock Loop frequency control) design ensures transmission reliability, "Noise Lock" squelch effectively blocks stray RF.

EIA-standard metal 1-rack receiver chassis, offering programmable features, with high-visibility LCD display.

Battery life is twice as common, up to 15 hours.

HR series provide incredible audio quality and outstandingly reliable performance for artists, broadcasters and other demanding audio environments.

#### RECEIVER:

Main Frame Size: EIA STANDARD 1 U

Channels: Dual Channel

Frequency Stability:  $\pm 0.0005\%$ , Phase Lock Loop frequency control

Carrier Frequency Range: UHF 740-820MHz

Modulation Mode: FM

Operating Range: 100M typical (in open space)

Oscillation: PLL synthesized

sensitivity: 5dB  $\mu$ V, S/N > 60dB at 25 deviation

Band Width: 40MHz

S/N: > 108 dB

T.H.D.: < 0.4% @ 1 KHz

Integrated frequency response: 65Hz~18kHz  $\pm$  3dB

Power Supply: 100-240V AC 50/60Hz, 10W

Weight: 4.3KG

Dimension(mm): 421(L)  $\times$  43(H)  $\times$  206(W)

#### WIRELESS MICROPHONE:

Carrier Frequency Range: UHF 740-820MHz

Oscillation: PLL synthesized

Harmonic radiation: < -63dBm

Bandwidth: 80MHz

Max.Deviation Range:  $\pm 45$ KHz

Microphone Element: Cardioid Dynamic

RF Power Output: 8mW; 8mW / 15mW (Selectable)

Battery: AA  $\times$  2

Current Consumption: 90 mA

Battery Current / Life: Almost 6 Hours

Dimension(mm): 265mm(L)  $\times$  56mm(diameter)



SK-268 无线专业话筒系统是一款适合流动演出演唱专用的无线话筒系统, 采用众多领先业内的高新技术设计于一身: 超高频段 (UHF) 传输、真正分集式接收、双CPU控制、液晶显示、金属外壳, PLL锁相技术、杂讯检测等, 具有160个频点可调、易于操作的优点。

采用微电脑CPU控制: 系统整个硬件电路由微电脑进行控制, 可以进行选频、显示、静音锁定、电池容量监测等处理, 实现传统机型不易实现的各种功能。

液晶显示: 采用高性能的液晶进行显示, 所有的控制菜单均可以在液晶屏进行显示, 便于对系统进行控制。

#### 接收机参数:

机箱规格: 标准 1U 机箱

频道组数: 双通道

载波频段: UHF 740 ~ 820MHz

调制方式: FM

振荡方式: 相位锁定频率合成器

灵敏度: 在偏移度等于 25KHz, 输入 6dB $\mu$ V 时, S/N > 60dB

最大偏移度:  $\pm 45$ KHz

频带宽度: 24MHz

综合 S/N 比: > 100 dB

综合 T.H.D.: < 0.5% @ 1 KHz

综合频率响应: 50Hz~18kHz  $\pm$  3dB,

最大输出电压: 平衡式: -20dBV/100 $\Omega$ ,

非平衡式: -4dBV/5K $\Omega$ .

输出插座: XLR 平衡式及 6.3 $\phi$  不平衡式插座

AC 电源供应: 0.5A, 12 ~ 15VDC

尺寸 (mm): 421 (L)  $\times$  43 (H)  $\times$  206 (W)

#### 手持式发射话筒参数:

载波频段: UHF 740 ~ 820MHz

振荡模式: 相位锁定频率合成器

功率输出: 10mW

频率响应: 50Hz~18KHz

最大输入声压: 130dB SPL

音头: 动圈式

电池: AA  $\times$  2

电流消耗: < 110 mA

尺寸 (mm): 265mm 长  $\times$  56mm 直径



**a&a acoustics co.,ltd**  
**广州市爱恩爱音响有限公司**

Tel No.电话: +86 20 3110 2628

Fax No.传真: +86 20 3110 2628

E-mail 邮箱: sales@aaacoustics.com

Website 网站: <http://www.aaacoustics.com>

Address地址: Bai Gang Xin Industrial Yongning Dong Road,  
Kentou Village Nancun Town District Panyu Guangzhou China. 511400  
广州市番禺区南村镇坑头村永宁大道东白岗新工业区

