



KF-560&BH-560线性阵列系统描述

系统特点:KF-500&BH-500系列线阵系统是广州市展讯电声科技有限公司最经 典的紧凑型新款线性阵列音箱。KF-500&BH-500系列由:KF-510、KF-520、 KF-530、KF-550、KF-560、KF-590、BH-510、BH-520、BH-530、BH-550、BH-560、BH-590组成;它们具有体积小、重量轻、功率大、效率高、 应用灵活的特点。其澎湃厚实有力的低频,饱满细腻通透的中高频、宽泛的音 域给人以Hi-Fi的享受。KF-500&BH-500系统是近几年来NEWORLL尼沃研发 团队智慧的结晶、是大胆创新的硕果、是线性阵列中的精品。KF-500&BH-500系列不仅拥有线性阵列音箱的音色、音质及所有线性阵列音箱应该具备的 特点和品质; 而且还具有很高的性价比, 它与传统二分频全频音箱的价格相 当。是中高端厅堂扩声场所、中小型流动演出扩声的首选产品。它与传统音箱 相比的优势主要体现在以下几个方面: **KF-500&BH-500系统搭配, 比传统音** 箱有更强的指向性、更广的覆盖角、更宽的频响范围、更远的投射距离、更均 匀的声场、更高的效率、更灵活的应用、更方便、快捷的安装方式。KF-500&BH-500系列产品是德国尼沃电声实验室结合声学原理与现场环境,有针 对性设计而研制出来的高品质产品。众所周知我们现在所遇到的一些酒店大 厅、大型的会议厅、报告厅等场所在进行装潢设计时更多看重外形美观、新 时尚及消防、安全等方面的因素比较多, 而对建筑声学方面考虑不是很 特别是有些普通的装修设计公司有很多根本就不考虑建筑声学这方面的因 素,而业主本身也不懂,往往木已成舟之时已无回天之力。当然这种事情本身 也没有办法避免,因为这些场所也不可能去按照标准的的剧院、剧场来设计。 所以我们根据现场实际情况,从科学、客观的角度出发,对于这样不标准的建 声场所采用一种精准的**电声校正技术**来弥补**物理建声**的不足,从而研制了**KF**-500&BH-500系列线性阵列音箱。从电声技术角度出发,采用强指向性,垂直 角度连续可调, 远近投射距离可调的技术来解决传统音箱不能解决的问题。为 什么这样讲呢?因为传统音箱的水平覆盖角一般在 120° \sim 60° 之间恒指向,垂 直覆盖角度90°~30°之间恒指向。这样的水平、垂直覆盖角度过大,在建声条件不好的环境里容易造成声干涉和声反射,传统音箱布置的越多声场就越差、音色和音质也就越浑浊、现场调试的难度也就越大、所用的周边设备也就 **越多、所耗费的人力物力也就越多**。很难达到理想的电子扩声要求。

KF-500&BH-500系列标配是内置二分频系统(也可定做成外置二分频)KF-590&BH-590除外。在相同的条件下与外置分频网络系统相比所用功放数量要 少用二分之一,它最小的扩声搭配是2只KF-500全频音箱和1只BH-500次低音 音箱组成,左右各一组形成立体声模式,只需3台功放。根据现场扩声需求决 定是否植入处理器, 如果为了声音更细腻、音色更好, 可以植入一台处理器, 否则可以不加处理器。 面对较为大型的扩声场所时,为了更好的还原声音效 果、得到更均匀的声场、更饱满的音色。音响系统调试工程师往往需要更多的 处理器通道来对某只音箱讲行独立调节,这个时候内置分频线性阵列音箱比外

置分频的线性阵音箱就有明显的成本优势。因为内置分频线阵性列音箱所占处 理器通道更少,那么处理器也用的更少,相应的功放的数量也会更少。 在成本 变化不大情况下,也为系统设计师提供了加入超重低音的空间,处理器相应也 不会增加太多,达到控制**成本**的目的。 在实际应用中为调音师提供了一个专 业的发挥空间,同时也减少了系统出错的**机率**,从而使系统更加的**稳定**。从成 本的角度而言, 这是外置分频线性阵列无法比拟的。

箱体结构及用料: NEWORLL尼沃工程师为了研发KF-500&BH-500这个精品 系列,颇费周折,费劲心思。主要体现在**3**个方面:**1.选料精**:箱体板材是选用 上好的进口桦木夹板,使箱体结构更加坚固耐用,有效的减少箱体无用的共振 工列的加口行行大战,使相呼当时支加生山时间,有效的城乡相岸无历的兴城 和有害的音樂。分频器电容是由世界知名的供应商提供,电阻全是无密电阻, 电感骨架特殊设计定制开模而来,采用尼龙加纤的材料,骨架更加耐热而不易 老化,特殊的散热孔设计,使散热更好,从而使产品更稳定可靠。箱体表面处 理采用的是极为高端的国际环保(ROHS)化工材料-无毒害的水性油漆。2制作 精: 箱体采用数控加工中心(CNC)一气呵成, 保证了产品的加工精度与一致性。 3技术精:利用先进箱体(LEAP)设计软件和(LMS)音频测试系统对箱体结构和 喇叭单元的电声参数都做了详细的理论测算和实际验证: 配以通体珍珠白的外 表使KF-500&BH-500系列显得格外的娇小玲珑、晶莹剔透,打造出了这一系 列外形精美、音色甜美、音质清脆的精品。有效投射距离可达50米~120米。 覆盖角度更宽广,高音号角采用水平150°覆盖,垂直角10°覆盖角。能照顾 到声场要求较宽的场所。同时,音箱与音箱之间还有连续10°垂直可调的空 间, 能照顾到不同区域的观众。

KF-560&BH-560线阵系统配置:KF-560是KF500系列家族中一款双12寸内置二 分频线性阵列音箱(也可以定做成外置分频)。KF-560是由2只12寸75芯190磁低音单元和1只75芯的高音单元组成。BH-560是由2只15寸100芯220磁的超重 低音单元组成。箱体颜色可以根据客户需求选择白色或者黑色。根据设计要求 BH-560与KF- 560之间是按1: 2的比例关系配套使用,构成内置三分频系统。 即1只BH-560匹配2只 KF-560。两者搭配使用使得整个系统的低频下潜更深,低频更饱满厚实。该线阵系统是大型会议室、多功能厅、报告厅、宴会厅、礼 堂、教堂及流动演出等扩声场所的最佳选择,深受广大用户的一致好评!

安装方式:有二种安装方式:一种是线性阵列常规吊装方式。其次, KF-560&BH-560也可以采用配套的音箱立柱和加轮子的方式组合。构成方便、灵 活的移动扩击系统

系统应用及注意事项:在实际使用过程中根据系统要求**必须遵守一台两通道功** 放驱动两只KF-560系列全频线性音箱的规定。绝不可以一台功放驱动多只音 箱。在系统使用过程中严禁信号失真或过载,否则将会对系统造成严重损毁。

KF-560





KF-560&BH-560 line array system configuration: KF-560 is dual 12 $^{\prime\prime}$ with built-in passive filter two-way line array loudspeaker in KF500 series family (can also be customized into active control unit Bi-amp). KF-560 is composed of two 12" LF units with VC Φ75mm and 190 magnet, one HF driver with VC Φ75mm. BH-560 is composed of two 15 inch woofers with voice coil Φ100mm and 220 magnet. Enclosure color can also be customized white or black base on customer's requirements. According to the design requirements, it is supporting the use between BH-560 and KF-560 by the ratio of 1:2, constitute as built-in passive filter 3-way line array system that is 1pc BH-560 match with 2pcs KF-560. Both matching together make the whole system much deeper, fuller and thicker on low frequency. This system is the best choice for large sized conference room, multi-function hall, lecture hall, banquet hall, auditorium, church, touring concert and other sound reinforcement locations. Praised by the majority of users!

Installation method: There have two installation methods: one is conventional lifting for line array, the other is KF-560 & BH-560 are supporting the use of speakers supporting column and wheels combinations method. Constitute as a convenient and flexible moving sound reinforcement system.

System Application and Notice: In the actual use of regulations, according to system requirements must comply with one piece two channel power amplifiers to drive two pieces KF-560 series full range line array loudspeaker. You cannot use one piece power amplifier to drive multiple speakers. During the process of using system forbid signal distortion and overload, otherwise it will cause serious damage to the system.



KF-560 & BH-560 LINE ARRAY SYSTEM DESCRIPTION:

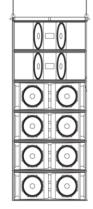
System Features: KF-500 & BH-500 Series line array system is the most classic of the new compact line array speakers of Newshow Electroacoustic Co., Ltd. Guangzhou. KF-500&BH-500 series consists of KF-510, KF-520, KF-530, KF-550, KF-560, KF-590, BH-510, BH-520, BH-530, BH-550, BH-560, and BH-590. This speaker features outstanding mini-sized, light weight, high power, high efficiency and flexible application. It performs much extra punchy weight, high power, high einterliefy and heixible application. In performs mich extra pulntion on high frequency and wide frequency response to enjoy Hi-Fi. KF-500 & BH-500 system is a crystallization of wisdom, the fruit of bold innovation, and the exquisite goods in line array by NEWORLL research and development team in recent years. KF-500 & BH-500 series not only has timber of line array, characteristics and quality of all line array speakers but also has cost-effective price. It is commensurate price with the traditional two-way full-range speaker. It's the first choice for randium and binds out held count of sinfercement place and middle and enablesized expected. medium and high-end hall sound reinforcement place and middle and small sized concerts touring. Compared with the traditional speakers, the main advantage in the following aspects: KF-500 & BH-500 system matching features that with more high directionality, more wide dispersion angle, more wide frequency response range, more long throw distance, more uniform on sound field, high efficiency, more flexible application and more easy-installation. KF-500 & BH-500 series products are the German Neworll Electroacoustic laboratory combined with acoustics principle design and environmental site argeted design and developed high quality products. As we all know, we encountered some of hotel hall, large sized conference room, lecture hall and other places in the decoration design more emphasis on novel, beautiful, fashionable appearance and fire control, safety, and other factors, and we consider the architectural acoustics not a lot, especially in some common decoration design company do not consider architectural acoustics, however the owners themselves do not understand, so it is no longer to be changed when it is done. Of course, this kind of thing itself has no way to avoid, because these places it is impossible to follow the standard of theater design. So we according to the actual situation on site, from the point view of scientific and objective, for such non-standard architectural acoustics site to adopt a precise acoustic correction technology to compensate for the lack of physical architectural acoustics, thus developed KF-500 & BH-500 series Line array loudspeakers. From the electroacoustic technology point view, adopting high directionality, continuously adjustable vertical angle, and adjustable long and short throw distance technology to solve the traditional speaker problem that cannot solve. Why do I say it? Because the traditional speaker horizontal dispersion angle is generally between 120 ° ~ 60 ° to constant directionality, vertical dispersion angle between 90 ° ~ 30 ° constant directionality, interference and other factors, and we consider the architectural acoustics not a lot, especially in some horizontal and vertical dispersion angle is too large, it is easily to cause acoustic interference and acoustic reflexion in bad architectural acoustics environment, the more traditional and acoustic speaker placement the worse sound field, more turbid timbre, more different debugging on site, more use of peripheral equipment, more cost of manpower and material resources. And then it is difficult to achieve perfect electronic sound reinforcement requirements. KF-500 & BH-500 series is built-in passive filter two way network system (can also be customized active control unit Bi-amp two way system) except KF-590 & BH-590. Compared with active control unit Bi-amp network system as the number of amplifiers used less one second under the same conditions, the minimum rental sound reinforcement match is two pieces KF-500 full rang speaker and one piece BH-500 under-Bass, the formation of stereo mode as a set of line array each site, just need three sets amplifiers, according to sound reinforcement requirements on site to decide whether with processor or no, if for more exquisite sound, better timbre, then we can be with one piece processor, otherwise you cannot add processor. In order to better restore sound effects, more uniform on sound field, fuller timbre when you face with large-scale sound reinforcement place. Audio system designers often need more processor channel for adjust speaker independently, there is significant cost advantage that built-in passive filter line array speakers compare with active control unit Bi-amp line array. Because of the built-in passive filter line array speakers occupies less processor channel, less processor and less amplifier quantity. In the case of litter change in cost, also provides added SUB for the system designer, processor will not increase too much correspondingly, to achieve the purpose of cost control. In practice, provides professional space for tuner, but also reduce the **chance** of system failure, thereby making the system more **stable**. From point view of cost, this is an active control unit Bi-amp line array incomparable.

active control unit Bi-amp line array incomparable.

Enclosure structure and materials: In order to develop KF-500 & BH-500 exquisite series, Neworll's engineers is painstaking working, mainly in the following three aspects: 1, the choice of high-grade materials: imported good birch plywood for enclosure board to make more solid cabinet structure, effectively reducing unwanted cabinet resonance and sound staining. Crossover capacitance is used well-known suppliers, all non-inductive resistance, special customized mold design for inductance frame, and adopt nylon fiber material, the frame is more heat resistant and difficult to aging, special cooling hole design, better heat dissipation, making the product more stable and reliable. Using very highend international environmentally-friendly (ROHS) chemical materials and non-toxic water-based paint for enclosure surface treatment. 2, precise making: enclosure is wrapped by CNC machining centers to ensure the accuracy and consistency of product processing. 3, precise technology; the use of advanced enclosure (LEAP) design software and (LMS) audio test system for electro-acoustic parameters of cabinet structure and speaker unit have done a detailed theoretical calculations and actual verification; **KF-500 & BH-500** is with pearl white exterior that makes very particularly petite, crystal clear, to create series of exquisite appearance, sweet timbre, crisp sound. Effective throw distance of up to 50 meters to 120 meters, more wide dispersion angle, tweeter horn adopt horizontal 150 °, vertical 10 dispersion angle. It can take care of the sites that wide sound field requirement. Meanwhile between speakers and speakers also have 10° adjustable space continuously that can take care to audience of various area

KF 系列专业线性阵列系统

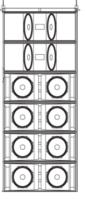
KF-560



KF-560 4pcs BH-560 2ncs

System Configuration 系统配置

扬声器结构: KF-560内置二分频 BH-560内置分频	Loudspeaker system structure: KF–560 built–in passive filter two–way BH–560 built–in passive filter
扬声器型号及数量: KF-560 8只 BH-560 4只	Speaker model and quantity: KF-560 8pcs BH-560 4pcs
可调角度: KF-560与KF-560箱与箱之间垂直 可调角度: 0°2°4°6°8°10°	Adjustable angle: Adjustable vertical angle between speaker KF-560 and speaker KF-560: 0° 2° 4° 6° 8° 10°
功率放大器: 2 X 1200W/8Ω 4台 2 X 1500W/8Ω 2台	Power amplifier:4sets2 X 1200W/8Ω4sets2 X 1500W/8Ω2sets
音箱处理器: CP-4800 1台	Processor: CP-4800 1set
线材: 2.5M°× 4芯专业音箱工程电缆线	Speaker cable: 2.5 $\rm M^2 \times 4$ core professional speaker engineering cable
附件: 16U功放机柜 2个 KF-560航空箱 8只 BH-560航空箱 4只	Accessories: 16U amplifier rack 2pcs KF-560 flight case 8pcs BH-560 flight case 4pcs



KF-560 4pcs BH-560 2ncs



技术说明:

此方案适合大型流动演出及剧场、剧院、报告厅、多功能厅等大型室内场合使用,建议使用距离为60米~100米,使用人数约为5000~8000人。

This scheme is suitable for large-sized concerts touring, theatre, lecture hall,

Note: multi-function hall and other large indoor places, recommendations apply to 60 meters to 100 meters away, using about 5000~8000 audiences

TECHNICAL INFORMATION Model KF-560 Power-Watts 1050W(RMS)/2500W(PGM)

Sensitivity (dB SPL 1W/1M) 102dB Impedance(ohms) 4Ω Frequency Response 45Hz~20kHz

Loudspeaker and loading LF 2×10"High pass vented box HF 1×1.5"Exit horn loaded

150°x10°

Weight (kg) 45ka

Horizontal symmetry

Dimensions(W×D×H) 1070×580×420mm Packing(W×D×H) 1123×630×471mm

BH-560

1000W(RMS)/2500W (PGM)

99dB

30Hz~150Hz

LF 2×15"High pass vented box

50kg

1100×800×400 mm 1123×850×471mm

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