KF–760&BH–760系统描述:

系统特点：

KF-760是一款高效率的三分频大型线性阵列音箱，这款音箱是近几年来**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**；它是由**2**只**75**芯钕磁高音、**2**只**10**寸**75**芯钕磁中音、**2**只**12**寸**100**芯高性能铁氧体低音构成了额定功率为**2000W**的大功率扬声器系统；**尼沃**的工程师根据声波的传输特性，应用了**高压波导**传输原理，在对该箱进行结构设计时分别将低频、中频和高频运用了**预加载**的技术；尤其值得一提是中频部分，它采用的是**双涡轮**、**双波导**的方案。因为一款音箱设计成败与否关键在中频，中频是一款音箱的灵魂，它起着承上启下的作用。**BH-760**是与**KF-760**配套使用的超重低音，该箱是由**2**只**18**寸**125**芯**280**磁高性能铁氧体低音构成。为了与**KF-760**相匹配**BH-760**的额定功率也为**2000W**。有了**BH-760**与**KF-760**相匹配，将人耳的可听音域范围发挥到极致。其澎湃的动力、宽广的音域、动听的音色浑然天成。这一切都要归功于**尼沃**的研发团队。这个团队特别注重实际应用的研究，一切灵感均来源于**实践**。同时，它也是一个非常**执着**、**专注**和**值得信赖**的团队；为推出民族品牌尽了绵薄之力。这套音箱不愧为当今高端线性音箱的**代表之作**，也是**展迅电声科技**的旗舰性产品之一。实为高端流动演出的首选之品。经过近十年的不断实践和创新，通过坚持不懈的努力逐渐推出了高端**KF家族系列**的线性阵列产品。先后有**KF-760**、**BH-760**，**KF-3212**、**BH-3212**，**KF-960**、**BH-960**，**KF-950**、**BH-950**，**KF-930**、**BH-930**，**KF-910**、**BH-910**等系列产品。该系列产品能够满足室内室外大大小小的扩声场所，无论是固定安装，还是流动演出的高端扩声需求。该系列产品早已被国家级的剧院、剧团采用。

系统功放与负载阻抗的匹配关系：

该系统的功放与音箱阻抗之间的匹配关系是这样的：**1**、**KF-760**箱内单只高音单元的阻抗为**16**欧姆，两只高音单元在箱体内部是并联关系，这时负载阻抗变为了**8**欧姆。根据设计要求一台高音通道的功放可以驱动**4**只**KF-760**音箱的高音单元。这时功放的负载阻抗为**4**欧姆。**2**、**KF-760**箱内单只中音单元的阻抗为**16**欧姆，两只中音单元在箱体内部是并联关系，这时负载阻抗变为了**8**欧姆。根据设计要求一台中音通道的功放可以驱动**4**只**KF-760**音箱的中音单元。这时功放的负载阻抗为**4**欧姆。**3**、**KF-760**箱内单只低音单元的阻抗为**8**欧姆，两只低音单元在箱体内部是分别独立各引正负两条线到**8**芯座音箱接线背板，这时负载阻抗为**8**欧姆。根据设计要求一台低音通道的功放可以驱动**2**只**KF-760**音箱的低音单元。这时功放的负载阻抗为**4**欧姆。以**4**只**KF-760**音箱为例所需功放为：**1**台高音功放、**1**台中音功放、**2**台低音功放共计**4**台功放。所以切记功放到**KF-760**音箱的连接线必须为独立的**8**芯四对线。否则将会对系统造成不可估量的损毁。**4**、**BH-760**音箱为独立的双**8**欧姆设置，因**BH-760**音箱功率较大需要一台功放的两个通道分别去驱动箱体内**2**个**18**寸的低音单元。因此**BH-760**接线背板的两个接线座对应的是一台功放的两个独立的通道。所以切记功放到**BH-760**的连接线必须为独立的**4**芯两对线。以此类推在系统搭配上注意功放与音箱阻抗之间的匹配；避免系统匹配出现错误，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。

箱体结构：

箱体板材是采用优质的多层的实木夹板。箱体内部喇叭单元呈品字形结构排列，结合声学原理，中音密封舱是铝合金压铸而成。中音波导管是使用特殊的有机材料制作而成。充分利用箱体内部空间，将声学原理发挥到淋漓尽致。箱体表面处理采用环保**(ROHS)**的化工材料**----**全天候水性油漆；可在恶劣的自然环境下使用。

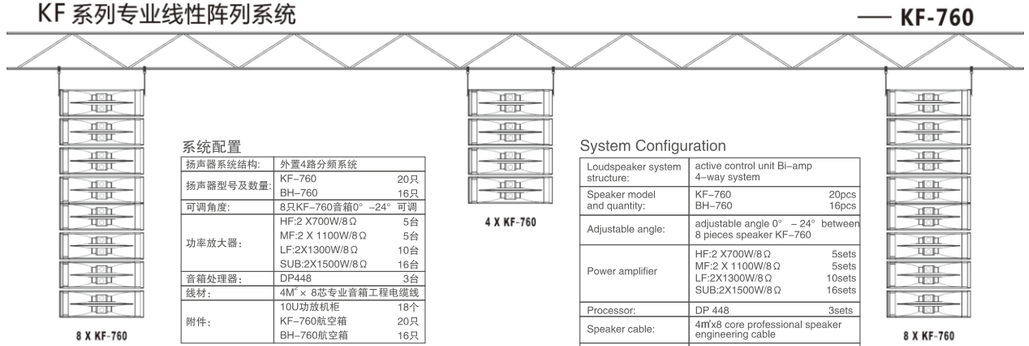
安装方式：

KF-760& BH-760有两种安装方式：吊装件都是采用优质的**T6061**铝型材。一种是用胡芦将**KF-760**吊装在**TRASS**或雷亚架上；另一种是，也可以选择将超低音**BH-760**加装与**KF-760**匹配的铝型材，这样**KF-760**就可以安装在**BH-760**上面放在舞台上。（**BH-760**正常标配是不带铝型材，需要时须与业务人员特别说明。）不锈钢插销连接，简单方便。

应用范围：

即可用于高端大型的流动演出，也可用于剧院剧场、体育场馆等场所的固定安装。

KF 系列专业线性阵列系统 —— KF-760



系统配置

扬声器系统结构:	外置4路分频系统	
扬声器型号及数量:	KF–760	20只
	BH–760	16只
可调角度:	8只KF–760音箱0° –24° 可调	
功率放大器:	HF:2 X700W/8Ω	5台
	MF:2 X 1100W/8Ω	5台
	LF:2X1300W/8Ω	10台
	SUB:2X1500W/8Ω	16台
音箱处理器:	DP448	3台
线材:	4M″× 8芯专业音箱工程电缆线	
附件:	10U功放机柜	18个
	KF–760航空箱	20只
	BH–760航空箱	16只

技术说明:

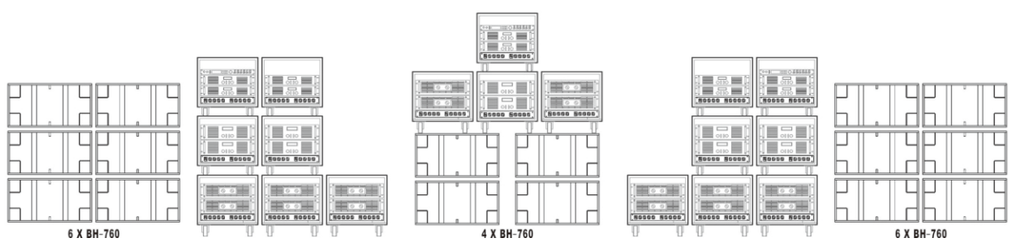
此方案适合大型演出活动，增加中置是为了满足由于现场舞台过于宽大而造成参演者和中前场观众对扩声要求的不足；建议使用距离为300—400米，使用人数约为35000 –-40000人。

System Configuration

Loudspeaker system structure:	active control unit Bi–amp 4–way system	
Speaker model and quantity:	KF–760	20pcs
	BH–760	16pcs
Adjustable angle:	adjustable angle 0° – 24° between 8 pieces speaker KF–760	
Power amplifier	HF:2 X700W/8Ω	5sets
	MF:2 X 1100W/8Ω	5sets
	LF:2X1300W/8Ω	10sets
	SUB:2X1500W/8Ω	16sets
Processor:	DP 448	3sets
Speaker cable:	4m'x8 core professional speaker engineering cable	
Accessories:	10U amplifier rack	18pcs
	KF–760 flight case	20pcs
	BH–760 flight case	16pcs

Technical note:

This scheme is suitable for large–sized concerts touring, the increase in the middle line array is to meet the requirement of sound reinforcement as a result of live stage too big that cause actors and in the front court audience lack of sound reinforcement; recommendations apply to 300 – 400 meters away, using about 35000 – 40000 audiences.



BH–760

BH–760

KF–760–T

made of high quality aluminum **T6061** profiles. One is to use hoist lifting the **KF-760** in **TRASS** or layer rack; the other is you can choose to install SUB **BH-760** aluminum profiles with matching **KF-760**, so **KF-760** can be installed above **BH-760** on the stage. (**BH-760** is no with aluminum profiles in Normal standard, and you must confirm with sales person for special instructions if you need.) Stainless steel bolt connection, very simple and convenient.

Applications:

This system is suitable for high-end Large Concerts Touring, and also can be fixed installation for Theater, and Stadium etc.

KF SERIES 760

KF-760 & BH-760 SYSTEM DESCRIPTION:

System Features:

KF-760 is high efficiency three-way large-sized line array speaker, this speaker is a **crystallization** of wisdom, is the **fruit** of bold innovation, is the **high-quality goods** in line array by **Neworll** research and development team in recent years; it is composed of **two** Neo HF drivers with VC **Φ75mm**, **two 10 inch** Neo MF drivers with VC **Φ75mm**, **two 12** inch LF units with VC **Φ100mm** and high-performance magnet , it is constitute the rated power of **2000W** high power loudspeakers system; **Neworll's** engineers according to **sound wave** transmission characteristics, the application of **high pressure waveguide** transmission principle, in the structural design of the box, it is use of **pre-loaded** technology on low frequency, middle frequency and high frequency respectively; In particular, it is worth mentioning that the middle frequency section, which uses **twin-turbo**, **twin waveguide** scheme. Because the key to the success of a sound box design in MF, MF is a speaker's soul, it plays a connecting role. SUB **BH-760** is supporting the use of **KF-760**; **BH-760** is composed of **two 18 inch** woofers with voice coil **Φ125mm** and **280** high-performance magnet. SUB **BH-760** rated power is **2000W** for matching the **KF-760**. There is **BH-760** match with **KF-760** so that the frequency response of the human ear become most wide. With surging power, wide-range and natural timbre fusion together become the best. This is all thanks to **Neworll** research and development team. The team pays special attention to the study of practical application, all inspiration is derived from the **practice**. At the same time, it is also a very **dedicated**, **focused** and **trustworthy** team; we try our best to launch the national brand. This speaker is worthy of **representative** for high -end line array speaker in nowadays, also it is one of flagship product of **Newshow Electroacoustic Co., Ltd**. It is first choice for high-end concerts touring. After nearly a decade of continuous practice and innovation, through the unremittingly efforts, we have gradually introduced a line array **KF family series** of high-end products. There have **KF-760**, **BH-760**,**KF-3212**,**BH-3212**, **KF-960**, **BH-960**, **KF-950**, **BH-950**, **KF-930**, **BH-930**, **KF-910**, **BH-910** and other series products. This series of products meet the needs of the high-end sound reinforcement requirements for fixed installation or concerts touring both indoor and outdoor. The series has already been adopted by national theater troupe.

Matching relations between amplifier system and load impedance:

the system matching relationship between the amplifier and speaker impedance is such that: ①, One piece HF driver impedance is **16 ohms** inside **KF-760** cabinet , **two HF** drivers is parallel relationship inside the cabinet, then load impedance into **8 ohms**. According to the design requirements of one set two channel HF amplifier can power HF drivers of **four pieces KF-760** speakers. Then amplifier load impedance into **4 ohms**. ②, One piece MF driver impedance is **16 ohms** inside **KF-760** cabinet, two MF drivers is parallel relationship inside the cabinet, this time load impedance into **8 ohms**. According to the design requirements of one set two channel MF amplifier can power MF drivers of **four pieces KF-760** speakers. Then amplifier load impedance into **4 ohms**. ③, One piece LF unit impedance is **8 ohms** inside **KF-760** cabinet, two LF units in the cabinet interior, each LF unit connect positive pole or negative pole two wires independently to speaker wiring back panel of the **8-core** speakon socket, and then the load impedance is **8 ohms**. According to the design requirements of one set two channel LF amplifier can drive LF unit of **two pieces KF-760** speakers. Then amplifier load impedance is **4 ohms**. For example, according to **four pieces KF-760** speakers, total amplifier is required: **one set** HF amplifier, **one set** MF amplifier, **two sets** LF amplifiers, and total is **four sets** amplifiers. So do remember the connecting cable from amplifier to **KF-760** speaker must be independent of the **8-core** speaker cable. Otherwise it will cause incalculable damage to the system. ④, **BH-760** speakers as independent dual **8 ohms** setting, because **BH-760** speaker is more high power , so need one set amplifier of two channel to power the **two 18-inch** LF units in the cabinet separately. So the two connecter socket of **BH-760** wiring back panel is corresponding two separate channel of an amplifier. So do remember the connecting cable from amplifier to **BH-760** speaker must be independent of the **4-core** speaker cable. So pay attention to the system matching between the amplifier and speaker impedance; avoid system matching error, during the process of using system forbid **signal distortion** and **overload**, otherwise it will cause serious damage to the system.

Enclosure structure:

Enclosure is made of high quality multi-layer plywood. Speaker drivers inside the box was a block diagram structural arrangement, combined with acoustics principles, middle frequency capsule is made of aluminum alloy die-casting. Middle frequency waveguide tube makes use of a special organic material. Make full use of the space inside the cabinet and make the acoustics principles to the fullest. Using environmentally-friendly (**ROSH**) chemical materials for enclosure surface treatment---all-weather water-based paint; It can be used in the rugged natural environment.

Installation method:

There have two installation methods for **KF-760** & **BH-760**: the flying accessories are

TECHNICAL INFORMATION

Model	***KF-760***	***BH-760***
Power-Watts	*2000W(RMS)/5000W(PGM)*	*2000W(RMS)/5000W(PGM)*
	LF:500W× 2/ MF:400W× 2/ HF:125W× 2	
Sensitivity(dBSPL 1W/1M)	*LF:97dB/ MF:108dB/ HF:111dB*	*112dB(1W/1M)*
Impedance(ohms)	*LF:16Ω/LF2::8Ω / MF:16Ω/ HF:16Ω*	*LF1:8Ω/LF2:8Ω*
Frequency Response	*LF:50Hz~500Hz/ MF:500Hz~2.5kHz/ HF:2.5kHz~19kHz*	*45Hz~120Hz*
Average Dispersion	*80° x 3°*	*Quasi-omnidirectonals*
Loudspeaker and Loading	*LF:2x12″ High pass vented box*	*2x18″ High pass vented box*
	MF:2x10″ High pass vented box	
	HF:2x2″ Exit horn loaded	
Weight(Kg)	*142Kg*	*120Kg*
Dimensions(W×D×H)	*1145×800×425mm*	*1100×835×600mm*
Packing(W×D×H)	*1230×830×820mm*	*1180×915×750mm*