# KF–910&BH–910系统描述:

## 系统特点：

**KF-910**是**KF900**系列家族中被喻为**“小精灵”**的一款小型的外置二分频线性阵列音箱。它跟其它**KF900**系列音箱一样也是**Ω形**的流线形外观设计。配以通体珍珠白的外表，**KF-910&BH-910**简直就是一款璀璨夺目的明珠，虽然其外形精巧，但效率却非常之高。其柔美的音色、宽泛的音域给人以**HiFi**的享受。该箱是由**1**只钕磁高音、**2**只**6.5**寸高性能铁氧体中低音单元组成。**BH-910**是与**KF-910**配套使用的次低音音箱。它是由**1**只**15**寸**75**芯高性能铁氧体低音单元构成。**BH-910** 与**KF-910**组合，构成外置三分频系统。该系统之所以加入**BH-910**次低音音箱，是因为**KF-910**音箱的**6.5**寸中低音单元低频下潜不够宽，所以需要用**BH-910**来补充次低频部分。根据设计要求**BH-910**与**KF- 910**之间是按**1**：**2**的比例关系配套使用。即**1**只**BH-910**匹配**2**只 **KF-910**。该系统是高档会所、教（厅）堂扩声、会议及小型演出的最佳选择。

## 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-910**箱内单只高音单元的阻抗为**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-910**音箱的高音单元，这时功放的负载阻抗为**4**欧姆。**2**、**KF-910**箱内单只中低音单元的阻抗为**8**欧姆，在箱体内部是串联关系，这时负载阻抗为**16**欧姆。根据设计要求一台中低音通道的功放可以驱动**4**只**KF-910**音箱的中低音单元，这时功放的负载阻抗为**8**欧姆。**3**、**BH-910**音箱的阻抗为**8**欧姆，根据设计要求一台次低音通道的功放可以驱动**2**只**BH-910**音箱。这时功放的负载阻抗为**8**欧姆。**4**、以**2**只**BH-910**和**4**只**KF-910**音箱为例所需功放为：**4**只**KF910**音箱高音通道需**1**台相匹配的功放，中低音通道也是**1**台相匹配的功放，**BH-910**音箱需要**1**台相匹配的功放。共计**3**台功放。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。箱体的上下表面共有**4**个可拆卸的密封盖板，其作用是便于维护。箱体的表面处理材料采用环保（**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。

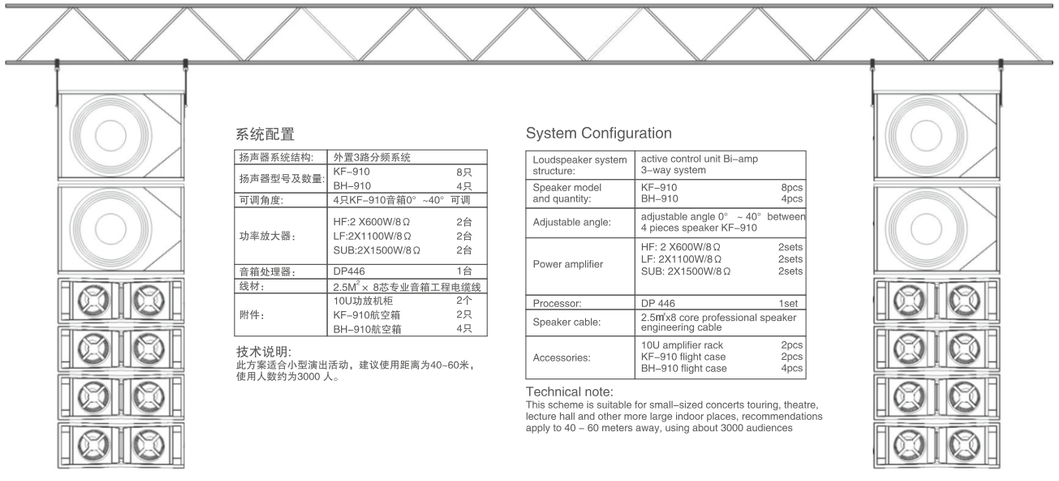
## 吊装方式：

**KF-910& BH-910**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-910&BH910**吊装在**TRASS**或雷亚架上；另一种是，**KF-910**安装在**BH-910**上面放在舞台上。不锈钢插销连接，简单方便。

## 应用范围：

广泛的应用在室内礼堂扩声、高档会所、剧院、教（厅）堂扩声、多功能厅、高档会议室、小型演出等场所。

## KF 系列专业线性阵列系统 —— KF-910



KF–910x4
BH–910x2

KF–910x4
BH–910x2

### 系统配置

| | | |
|---|---|---|
| 扬声器系统结构: | 外置3路分频系统 | |
| 扬声器型号及数量: | KF–910 | 8只 |
| | BH–910 | 4只 |
| 可调角度: | 4只KF–910音箱0° ~40° 可调 | |
| 功率放大器: | HF:2 X600W/8Ω | 2台 |
| | LF:2X1100W/8Ω | 2台 |
| | SUB:2X1500W/8Ω | 2台 |
| 音箱处理器: | DP446 | 1台 |
| 线材: | 2.5M° × 8芯专业音箱工程电缆线 | |
| 附件: | 10U功放机柜 | 2个 |
| | KF–910航空箱 | 2只 |
| | BH–910航空箱 | 4只 |

技术说明:
此方案适合小型演出活动，建议使用距离为40–60米，使用人数约为3000 人。

### System Configuration

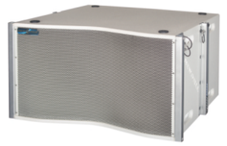
| | | |
|---|---|---|
| Loudspeaker system structure: | active control unit Bi–amp 3–way system | |
| Speaker model and quantity: | KF–910 | 8pcs |
| | BH–910 | 4pcs |
| Adjustable angle: | adjustable angle 0° ~ 40° between 4 pieces speaker KF–910 | |
| Power amplifier | HF: 2 X600W/8Ω | 2sets |
| | LF: 2X1100W/8Ω | 2sets |
| | SUB: 2X1500W/8Ω | 2sets |
| Processor: | DP 446 | 1set |
| Speaker cable: | 2.5m×8 core professional speaker engineering cable | |
| Accessories: | 10U amplifier rack | 2pcs |
| | KF–910 flight case | 2pcs |
| | BH–910 flight case | 4pcs |

Technical note:
This scheme is suitable for small–sized concerts touring, theatre, lecture hall and other more large indoor places, recommendations apply to 40 – 60 meters away, using about 3000 audiences

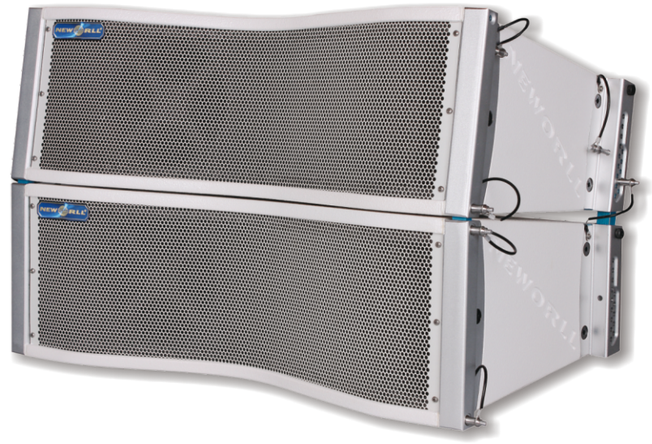


# KF SERIES 910

BH–910



KF–910–T



KF–910

## KF-910 & BH-910 SYSTEM DESCRIPTION:

**System Features:**

**KF-910** is a small sized active control unit Bi-amp two-way line array speaker in **KF900** series family, and has been hailed as the **"elf"**. Its **Ω-shaped** streamlined design is same as **KF900** series. **KF-910 & BH-910** is with pearl white exterior that to be a dazzling pearl, although its ingenious appearance, but the efficiency is very high. The mellow timbre and wide frequency response give people **HiFi** enjoyment. It is composed of **one** Neo HF driver, **two 6.5 inch** LF units with high-performance magnet. **BH-910** under-bass is supporting the use of **KF-910**. **BH-910** is composed of **one 15 inch** woofer with VC **Φ75mm** and high-performance magnet. For **BH-910** and **KF-910** combination, it constitutes an active control unit Bi-amp three-way line array system. The system is added **BH-910** under- bass speaker, because of **KF-910** speaker low frequency of **6.5 inch** low unit is not much wider, so need to use **BH-910** to add the under- low frequency part. According to the design requirements, it is supporting the use between **BH-910** and **KF910** by the ratio of **1:2.** That is **1pc BH-910** match with **2pcs KF-910**. The system is the best choice for the high-end Chamber, Church, Conferences, and small-sized concerts Touring.

**Matching relations between power amplifier system and load impedance:**

The system matching relationship between the amplifier and speaker impedance is such that: ①, One pieces HF driver impedance is **8ohms** inside **KF-910** cabinet. According to the design requirements of one set two channel HF amplifier can power HF drivers of **four pieces KF-910** speakers, then amplifier load impedance into **4 ohms**. ②, One pieces LF unit impedance is **8 ohms** inside **KF-910** cabinet, it is tandem relationship inside the cabinet, this time load impedance into **16 ohms**. According to the design requirements of one set two channel LF amplifier can power LF units of **four pieces KF-910** speakers, then amplifier load impedance into **8 ohms**. ③, **BH-910** speakers as impedance **8 ohms** setting, according to the design requirements of one set two channel LF amplifier can power **two pieces BH-910** speakers, this time amplifier load impedance into **8 ohms**. ④, For example, according to **two pieces BH-910** and **four pieces KF-910** speakers, total amplifier is required: **one** set HF amplifier and **one** set LF amplifier for match **KF-910**, **one** set LF amplifier for match **BH-910.**Total is **three sets** amplifiers. 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. The upper and lower surfaces of the enclosure there are **four** removable glands, it is convenient to maintenance. Using environmentally-friendly **(ROHS)** chemical materials for the 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-910 & BH-910**: the flying accessories are made of high quality aluminum **T6061** profiles. One is to use hoist lifting the **KF-910&BH-910** in **TRASS** or layer rack; the other is **KF-910** can be installed above **BH-910** on the stage. Stainless steel bolt connection, very simple and convenient.

**Applications:**

This system is suitable for indoor Wedding hall sound reinforcement, high-end Chamber, Theater, Church, Multi-Function rooms, hi-class Conference hall, and small sized Concerts Touring, etc.

## TECHNICAL INFORMATION

| Model | *KF-910* | *BH-910* |
|---|---|---|
| Power-Watts | *450W(RMS)/1125W(PGM)* | *400W(RMS)/1000W(PGM)* |
| | *LF:200W×2/ HF:50W×1* | |
| Sensitivity(dBSPL 1W/1M) | *103dB* | *99dB(1W/1M)* |
| Impedance(ohms) | *16Ω* | *8Ω* |
| Frequency Response | *LF:120Hz~2.5kHz/ HF:2.5kHz~19kHz* | *60Hz~150Hz* |
| Average Dispersion | *150° x 10°* | *Quasi-omnidirectonals* |
| Loudspeaker and Loading | *LF:2x6.5" High pass vented box* | *1x15" High pass vented box* |
| | *HF:1x1" Exit horn loaded* | |
| Weight(Kg) | *19Kg* | *30Kg* |
| Dimensions(W×D×H) | *655×215×360mm* | *655×530×420mm* |
| Packing(W×D×H) | *705×970×590mm(pair/ctn)* | *705×1130×650mm* |