

2021/2022

FINE WORKS OF THE TIMES AND NEW COORDINATES

Welcome To Biema's Audio Kingdom



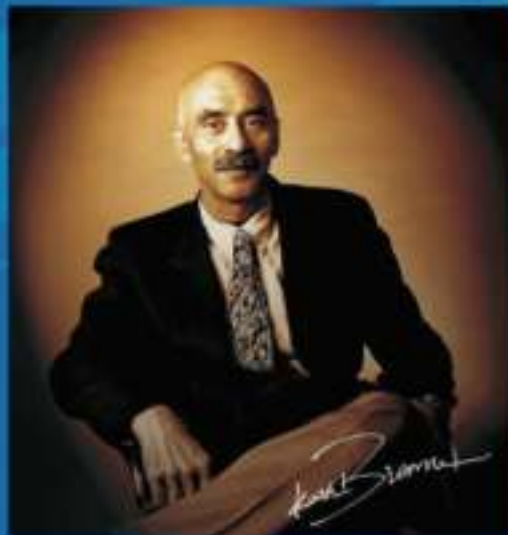
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INVENTOR: KEITH BIEMA

Wind Force Electronic Manufacturing Co., Ltd is a subsidiary of Xian Feng Enterprise. The company was established in spring of the year 2000 while Biema brand was created at autumn of the same year. Wind Force is located in the Panyu District, Guangzhou. This ideal location in China allows us to provide quality products to our customers at competitive prices as well as gives ease of inventory transportation across the globe. Wind Force Electronic Manufacturing Co., Ltd is also authorized as the national high tech enterprise as well as export quality and safety model enterprise.

Wind Force is a veteran audio factory, which focus on audio equipment R&D, production, marketing, sale and servicing. While our growth is skyrocketing, we spend a significant amount of capital each year in research and development (R&D) as our goal is to become the regional technological leader in audio industry. Our products have received various positive praises from our customers. We will continue to provide high quality products and services to our valued customers.

## Wind Force's facts:

- Wind Force has a united qualified staff. Senior Engineer, professor, accountant, economists and technician are occupied 40% in the whole company.
- The annual capacity of products reaches to five hundred thousand pieces.
- The company has received the certificate of ISO9001, ISO14001 International Quality Control System from UKAS. Our production and QC management are strictly carried out under the ISO terms.
- All products have received CE, UL, TUV, CCC, KC and RoHS approvals. Patents for product outlook, especially the new products design, have been applied and approved.
- There are around a hundred Biema distributors all over the world. Biema audio products have been widely used in more than a hundred important locations worldwide, such as the Red Square in Moscow, Thailand Kingdom Television Station, The Crown of Beauty in Sanya, China, etc.
- Biema was a brand registered in the United States and China. The brand has registered by Madrid Trade Mark Registration to more than fifty countries, such as European Union, Russia, Vietnam, Korea, Austria, Singapore, etc.
- Biema has its own Chinese and English website. And Biema distributors have built up Russian, Italian, Spanish, Portuguese, Thai and Korean languages.
- Biema products enable the highest performance but comparable low price in today's market. They are collected from digital amplifiers to POE active speakers, from mini home system to big size touring speakers system. Nothing can stop us going ahead. Every product we have is developed and produced by our heart. Therefore, our products have received various praises from our customers. Biema would like to share this achievement with all of you...
- The Shanghai Expo and Asian games not only have provided us a showcase to the global but also have strengthened our confident of going ahead. We will inherit our ten year's achievements and experience and keep on innovation and development.
- Everything we do and every step we go ahead is considering what the market requires and what our customer desires. In order to be engaged in increasing and promoting our own brand, "Biema", we are striving to explore the potential market and work hard to highlight to the customer and many other services as OEM or ODM!

We will inherit our experience and company culture to forge ahead. We will constantly strive to become stronger and make out the best products!



**2007/2008**

**Biema embraces 2008 Beijing Olympics!**  
Biema took part in supplying equipments, technology support and system service to 2008 Beijing Olympics.



**2015/2016**

**Digitalization Networking Systematization**  
Where you can find key products of Biema, where you can share big data network!



**we go beyond professional**  
Adopt digital network technology professional, entertainment and F2 and T2 series speakers are

**2017/2018**

**Cross-Industry Innovation Future-oriented All-win**

Biema developed the world's first unplugged active speaker, the WINDFORCE series active speakers. Biema was certified the Guangdong high-tech enterprise and export quality and safety demonstration enterprise.



technology support and system new series, CITY & FANCY- to market.

**2019/2020**

**NEW ERA NEW TARGET NEW JOURNEY**



**2021/2022**

**Fine works of the times and new coordinates**



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## TOUR SOUND SYSTEM

- ›  $\pi$  series vertical line array
- ›  $\Omega$  matrix line array
- ›  $\Phi$  versatile arrayable speaker
- ›  $\gamma$  compound line array
- ›  $\Sigma$  line array
- ›  $\alpha$  passive line array
- › C series dedicated monitor
- › X-21SUB subwoofer
- › X-218 subwoofer





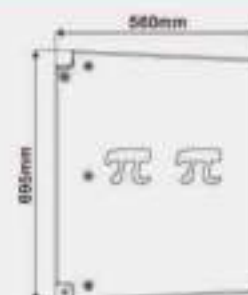
### π DRAWINGS



Top



Front



Left

### SPECIFICATIONS

Model	π
Frequency response	60Hz-18KHz
Driver	Hi: 4x1,7" neodymium compression driver (44mm voice coil) Low: 2x12" (75mm voice coil)
Directivity angle	H120°x V5°
Sensitivity	Low 101dB Hi 105dB
Impedance	Low 8ohm Hi 8ohm
Long-term power(RMS)	Low 800W Hi 200W
Power peak	Low 3200W Hi 800W
Maximum SPL	Low 136dB Hi 134dB
Connector	2x4-pin Speakon
Suspension Angle	0°, 3°, 5°
Product dimensions(WxDxH)	440x560x695mm
Shipping dimensions(WxDxH)	622x502x757mm
N.W/G.W	49.5kg/52.6kg

### π-b VERTICAL LINE ARRAY SYSTEM

π-b is a compact but strong subwoofer with 2pcs of high performance 12" neodymium LF drivers. The result of our decades of high power output loudspeaker development, the subwoofer enables extra high continuous rated power output by a brand new design. An improved cooling enhances the subwoofer's reliability as well as durability. The cabinet is built up by high quality multi-layer plywood. It is coated with durable polyurethane topcoat, making it possible for anti-scratch, anti-impact and wind or rain resistance. Two cozy handles are equipped on both sides of the cabinet for easy transportation and stacking up. An integrated three-point lifting rigging system equipped at each cabinet, which can be set accurately from 0° to 5°.

### Ω matrix line array system

Ω MATRIX LINE ARRAY SYSTEM- a new member but a big part of Biema family!

High SPL output, wide dynamic response, precise sound dispersion and remarkable sound reproduction capacity, make Ω as the demanded system for outdoor sound reinforcement or live show application.

Ω matrix line array system easily satisfies all requirements for less than 100,000 audiences live venue. Perfect three-way construction with dual 12" woofers, can meet all demands for different gigs. No matter horizontal or vertical rigging, seamless connection between each unit is always extremely user-friendly. Well-designed rigging system fully satisfies any needs of suspension for touring, rental or permanent installation.

### FEATURES

- Adopts BIEMA innovative three-way coaxial design.
- Neodymium components, "light" weigh but "heavy" sound pressure.
- Special "Equal Path Length" waveguide horn, optimized sound delivery.
- Durable square-stamped steel grill, smooth and natural desparation.
- Cozy human-oriented handle, easy carry or lift.
- Typical trapezoidal cabinet design, seamless connection between speakers.
- Flexible rigging design, either vertical line array suspension or ground stack, or even horizontal stacking as a matrix.
- Customized multi-ply birch plywood with strictly control for Resin Solid Content ① and Glue Spread ②.
- Built in Class II dual high frequency protect circuitry ensures stable performance.

#### Notes:

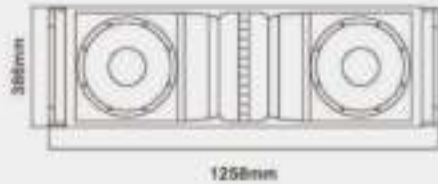
① Resin Solid Content: The index of non- volatile cementing compound under a typical test condition.

② Glue Consumption: The rate of cementing compound against dry wood while spreading glue to boards.





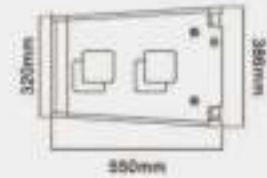
### Ω DRAWINGS



Front



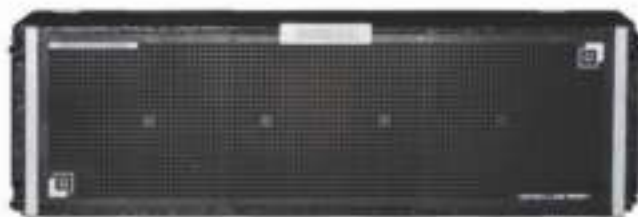
Top



Left

### OMEGA PACKING

To prevent any damage during transportation, aluminous harden flight case is used for protection. While installed with moving wheels, it's rather more convenient and time saving for short distance moving than big vehicle.



### SPECIFICATIONS

Model	D
Frequency response	40Hz-18KHz
Driver	Hi : 2x3" compression driver neodymium ; Mid: 1x10" neodymium (65mm voice coil ) ; Low: 2x12" (75mm voice coil)
Directivity angle	H100°xV7°
Sensitivity	Hi :113dB; Mid :105dB; Low :100dB
Impedance	Hi:16 ohm; Mid:8 ohm; Low:2x8 ohm
AES power	Hi:180W; Mid:300W; Low:1000W
Power peak	Hi:640W; Mid:1200W; Low:4000W
Maximum SPL	Hi:141dB; Mid:136dB; Low:136dB;
Connector	2x 8-pin Neutrik Speakon
Product dimensions(WxDxH)	1258x550x386mm
Shipping dimensions(WxDxH)	1320x610x560mm
N.W/G.W	70.0kg/108.5kg

### Φ series arrayable speaker

The Φ is an easy-to-use, highly versatile two-way arrayable speaker system. The speaker features big dynamic range, high fidelity and flexible installation, making it suitable for acting as a main sound in those medium to small-sized sound reinforcement either indoor or outdoor.

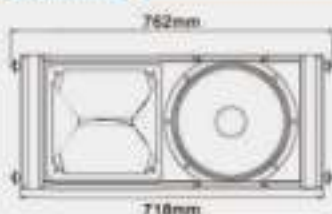
The Φ-b is a compression type subwoofer tailed for Φ speakers. It can easily be integrated with Φ speakers in a unitary full range and high power line array, which is flexible enough to serve in any requirements of touring, rental and permanent installation.

### FEATURES

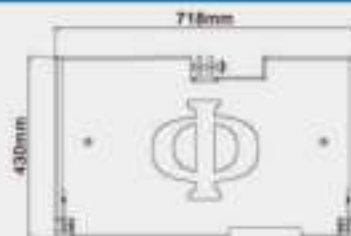
- All neodymium components, "light" weight but "heavy" sound pressure.
- Typical trapezoidal cabinet design, seamless connection between speakers.
- Special "Equal Path Length" waveguide horn, optimal for medium to small-sized sound reinforcement.
- Two pole mounted base for two angles sound dispersion, smart enough for single cabinet operation.
- User-friendly rigging hardware, offering fast installation no matter fly or ground stack.
- Multiple layer birch plywood with super hard lacquer finishing.
- Rotatable horn for satisfying horizontal or vertical application.
- Original NEUTRIK 4-pin SPEAKON.



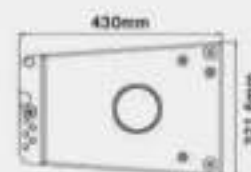
### Φ DRAWINGS



Front



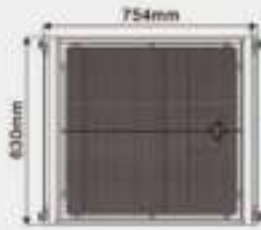
Top



Left



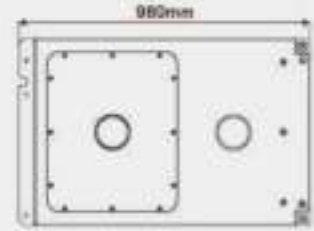
Φ-b DRAWINGS



Front



Top



Left

SPECIFICATIONS

Model	Φ	Φ-b
Frequency response	60Hz-18KHz	35Hz-200Hz
Driver	Hi: 1x2.5" compression driver neodymium; Low: 1x12"(75mm voice coil)	Low: 1x18"(125mm voice coil)
Directivity angle	H100°xV15°	—
Sensitivity	Hi: 110dB; Low: 99dB	100dB
Impedance	Hi: 8 ohm; Low: 8 ohm	8 ohm
Long-term power(RMS)	Hi: 80W; Low: 500W	1100W
Power peak	Hi: 320W; Low: 2000W	4400W
Maximum SPL	Hi: 135dB; Low: 132dB;	136dB
Connector	2x4-pin Neutrik Speakon	2x4-pin Neutrik Speakon
Product dimensions(WxDxH)	718x430x321.6mm	718x630x980mm
Shipping dimensions(WxDxH)	645x516x910mm	1160x810x800mm
N.W/G.W	28.0kg/76.0kg(x2)	84.5kg/112.5kg

Φ POLE MOUNTING



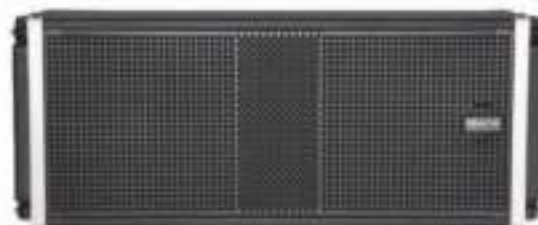
### $\gamma$ compound line array system

The significance of applications of line array system is that the long-distance sound dispersion and uniform sound field coverage. In order to achieve a long distance thrown, the line array should have a narrow waveguide so as to throw the sound to a greater distance. If a group of long-distance thrown linear array speakers have the same sound pressure level both in the front and further areas, the audience in front of them will feel uncomfortable. Therefore, we use a compound line array to cover the front audience with lower SPL speakers but cover the audience in the far field with higher SPL speakers. It will help to achieve cost savings but better and uniform sound coverage.

In order to provide enough sound field coverage in the near field, it should be narrowed at the beginning and gradually widened to further distance. In front of the stage, the horizontal directivity of conventional line array system is constant, which is usually about  $110^\circ$  or  $100^\circ$ . The waveguide is wide enough at close distance. The problem is that it gets very wide at medium distances, so a lot of acoustic energy is reflected off the wall, causing a lot of confusion. In outdoor performances, when sound wave beyond the audience area, most of them will be dissipated. The combination application of the Gamma  $\gamma$  and Sigma  $\Sigma$  will easily configure a asymmetric coverage mode.

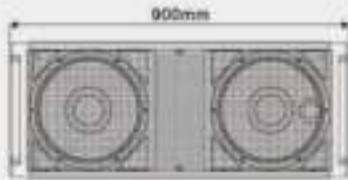
### FEATURES

- Biema patent aluminum suspension hardware.
- Multi angle precise adjustment.
- High-density mixed sound-absorbing materials.
- Simple and fast installation.
- Customized ultra-thin unit.
- Better frequency response, higher definition and resolution.
- Flight cases for transportation protection (2 pieces each case).
- Environmental paint finishing.
- Special hardened spraying steel grille.
- Different models seamless connection.
- Multi-layer plywood cabinet.
- Best for rental or touring applications; fixed installation of multi-function hall, sports venues, small and medium-sized sound reinforcement.

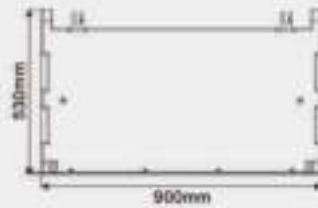




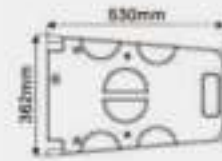
**DRAWINGS**



**Front**



**Top**

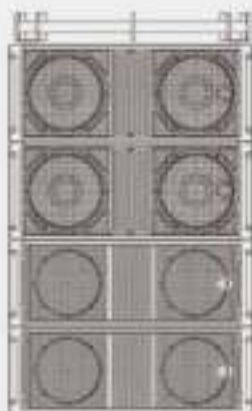


**Left**

**SPECIFICATIONS**

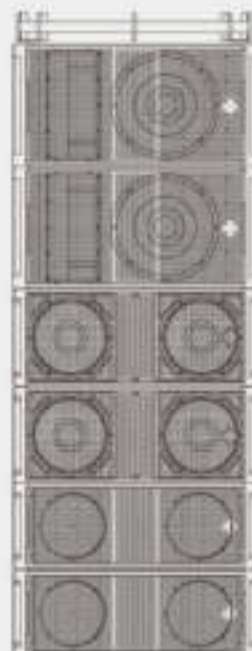
Model	Y
Frequency response	48Hz-19KHz
Driver	1x3"neo- compression driver(75mm voice coil) HI: 2x12"(75mm voice coil)
Directivity angle	H80°xV10°
Sensitivity	Low 101dB HI 110dB
Impedance	Low 8ohm HI 8ohm
Long-term power(RMS)	Low 800W HI 100W
Power peak	Low 3200W HI 400W
Maximum SPL	Low 136dB HI 136dB
Connector	2x4-pin Speakon (+1-1 LOW +2-2 HI)
Suspension angle	0°,2°,4°,6°,8°,10°
Product / Shipping dimensions(WxDxH)	900x530x362mm/592x425x962mm
N.W/G.W	49.0kg/54.0kg

**COMPOUND LINE ARRAY SYSTEM**



$\gamma$  2x12°

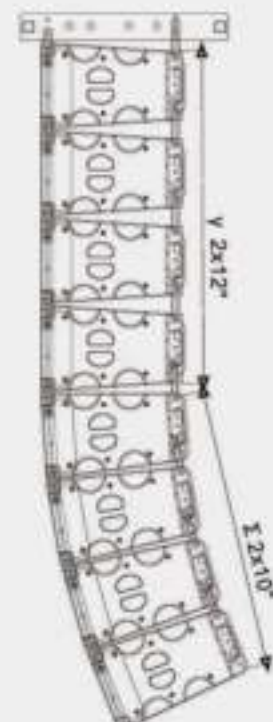
$\Sigma$  2x10°



$\Sigma$ -b  
subwoofer

$\gamma$  2x12°

$\Sigma$  2x10°



$\gamma$  2x12°

$\Sigma$  2x10°

### Σ series line array speaker

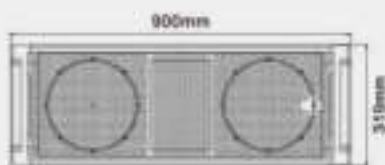
BIEMA Σ is a double 10" full range line array speaker. It features high power but extra compact cabinet, low distortion but high SPL, flexible combination but light weight, making it the best choice for many kinds of applications no matter touring, rental or permanent installations. Σ offers all of the benefits of BIEMA's decades of manufacturing self-powered systems, including carrying interval amplification, complex crossover, driver protection and frequency and phase correction circuitry on board. All components were all special designed to meet stringent performance requirements. Each speaker contains all of its amplification and processing within the loudspeaker cabinet, providing greater performance, lower cost and more convenience. Quickly rigging hardware is fixed on the cabinet. Flying the speakers as line array is a snap.



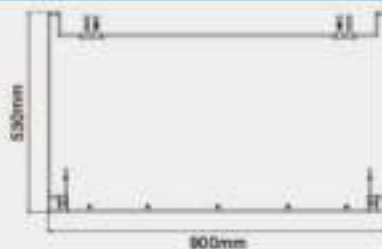
### FEATURES

- Biema proprietary aluminum rigging hardware for easy and fast setting up.
- Multiple angles option for precise dispersion.
- Highly noise absorbable materials.
- Flexible application and easy installation.
- Italian-made neodymium drivers.
- Better frequency response and higher resolution.
- Flight case for transportation protection (2pcs each flight case).
- Environmental King Kong painting finishing.
- Super harden steel grille.
- Multi-layer birch laminate construction.
- Best for touring sound, indoor or outdoor medium-size sound reinforcement or permanent installation for multi function halls, stadiums and the like.

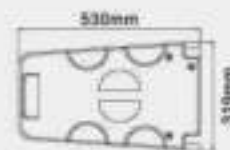
### Σ DRAWINGS



Front



Top



Left

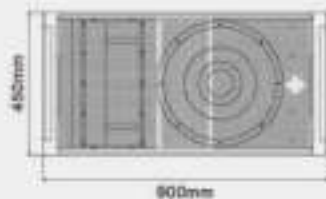


**Σ series line array speaker**

Σ-b is a dual 15" subwoofer tailored for either touring or permanent installation. The speaker is Vented Band-Pass construction to achieve most compact cabinet, minimum distortion, optimal amplitude and smooth phase response. The cabinet is coated by abrasive wear resistant material finishing. Two 15" neo woofers with 3" voice coil produce super strong bass, which can easily satisfy all your demands at a sound system.

**FEATURES**

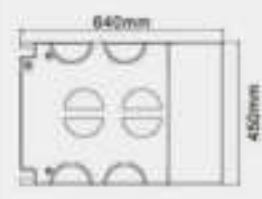
- Vented Band-Pass construction.
- 15" neo woofers with 3" voice coil.
- High density sound absorbable materials.
- Proprietary suspension hardware.
- Italian-made neo woofers.
- Environmental super hard anti-scratch finish.
- Extra low distortion and fast transient response.
- Best for bands, music halls, churches, multifunction halls and likewise.

**Σ-b DRAWINGS**

Front



Top



Left

**SPECIFICATIONS**

Model	Σ	Σ-b
Frequency response	50Hz-18KHz	40Hz-250Hz
Drivers	Hi:1x2.5"neodymium driver(65mm voice coil) Low:2x10"neodymium woofer (65mm voice coil)	2x15"neodymium (75mm voice coil)
Directivity angle	H100°xV10°	-
Sensitivity	Low:100dB Hi:108dB	100dB
Impedance	Low:8 ohm Hi:8 ohm	4 ohm
Long-term power(RMS)	Low:800W Hi:100W	1000W
Power peak	Low:2400W Hi:400W	4000W
Maximum SPL	Low:133dB Hi:134dB	133dB
Connector	2x4-pin Speakon (+1-1 LOW +2-2 HI)	2x4-pin Speakon (+1-1 )
Suspension angle	0°,2°,4°,6°,8°,10°	-
Product dimensions(WxDxH)	900x530x319mm	900x640x450mm
Shipping dimensions(WxDxH)	592x382x962mm	1000x690x675mm
N.W/G.W	36.0kg/41.0kg	27.0kg/32.0kg

### **α series line array speaker**

Biema α-a is a compact line array loudspeaker designed to give the best in audio quality and trouble-free operation. It is ideal for applications that require big power and medium to short thrown distance or where weight and size are a concern. It offers excellent coverage pattern, safe and practical rigging hardware, superior audio quality and proven reliability. All components were all special designed to meet stringent performance requirements. Each speaker contains quick rigging hardware is fixed on the cabinet. Flying the speakers as a line array is a snap.

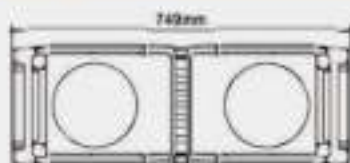
α-a is suited to a wide variety of applications such as touring, rental and fixed installation. And it perfectly matches with α-b, the 1x18" compression type line array subwoofer, as a full compact system for those places that need more base and more power but all flying.

### **FEATURES**

- Biema proprietary aluminum rigging hardware and suspension frame.
- Highly noise- absorbable materials.
- Quick rigging.
- Proprietary design of the compressed horn.
- High sensitivity neodymium drivers
- Specialized flight cases for transportation protection(Two speakers each case).
- Environmental lacquer finishing.
- Super-hard sprayed paint steel grille.
- 9- ply birch laminate construction.
- Ideal for medium-sized venues.



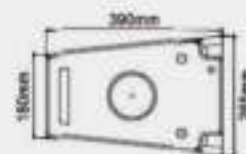
### **α-a DRAWINGS**



**Front**



**Top**



**Left**

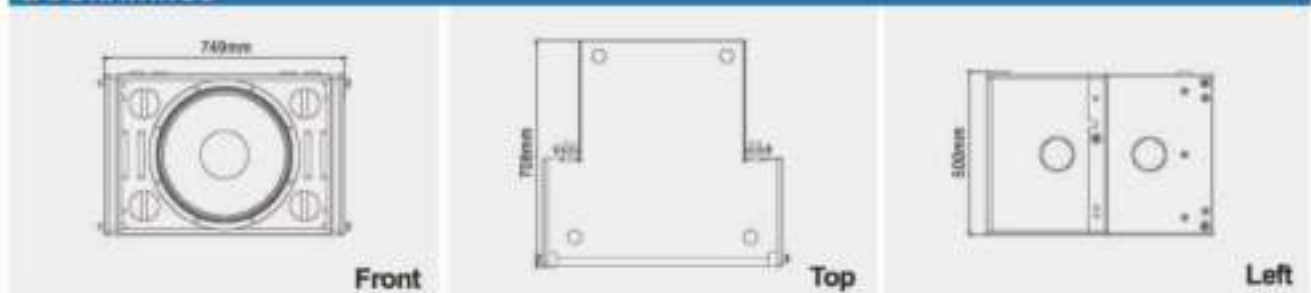


**SPECIFICATIONS**

Model	$\alpha$ -b
Frequency response	75Hz-18KHz
Driver	Hi: 1x3" compression driver neodymium; Low: 2x8"(50mm voice coil)
Directivity angle	H120°xV10°
Sensitivity	98dB
Impedance	16 ohm
AES power	400W
Power peak	1600W
Maximum SPL	130dB
Connector	2x4-pin Neutrik Speakon
Product dimensions(WxDxH)	749x390x285mm
Shipping dimensions(WxDxH)	452x327x812mm
N.W/G.W	28.0kg/32.0kg

 **$\alpha$ -b series line array speaker**

- Biema proprietary aluminum rigging hardware and suspension frame.
- Highly noise-absorbable materials.
- Quick rigging.
- Proprietary design of the compressed horn.
- High sensitivity neodymium drivers
- Specialized flight cases for transportation protection(Two speakers each case).
- Environmental lacquer finishing.
- Super-hard sprayed paint steel grille.
- 9-ply birch laminate construction.
- Ideal for medium-sized venues.

 **$\alpha$ -b DRAWINGS****SPECIFICATIONS**

Model	$\alpha$ -b
Frequency response	35Hz-250Hz
Driver	Low: 1x18"(100mm voice coil)
Sensitivity	99dB
Impedance	8 ohm
AES power	600W
Power peak	2400W
Maximum SPL	133dB
Connector	2x4-pin Neutrik Speakon
Product dimensions(WxDxH)	749x708x500mm
Shipping dimensions(WxDxH)	811x770x562mm
N.W/G.W	51.0kg/56.0kg

### C series dedicated monitor

The enclosure is constructed from Birch plywood and is protected with a black paint finish. Two side located handles facilitate handling and a steel grille protects the components.

- Dedicated stage monitor.
- Compression driver with titanium diaphragm.
- Low profile enclosure design for minimum visual impact.
- Black paint finish.
- High quality voice reproduction.
- Constant coverage.

### SPECIFICATIONS



Model	C-12M
Frequency response	65Hz-18KHz
Driver	12" LF driver; 1"compression driver
Directivity angle	H80°xV50°
Impedance	8 ohm
AES power	300W
Power peak	1200W
Sensitivity	97dB
Maximum SPL	128dB
Connector	2xNL4R speaker
Product/shipping dimensions(WxDxH)	363x626x464.5(463x726x565)mm
N.W/G.W	22.0kg/25.0kg

### SPECIFICATIONS



Model	C-15M
Frequency response	65Hz-18KHz
Driver	15"LF driver;1"HF compression driver
Directivity angle	H80°xV50°
Impedance	8 ohm
AES power	400W
Power peak	1600W
Sensitivity	96dB
Maximum SPL	130dB
Connector	2xNL4R speaker
Product/shipping dimensions(WxDxH)	378x700x497(476x600x597)mm
N.W/G.W	26.0kg/32.0kg



**X-21SUB subwoofer**

X-21SUB is a 21" high power subwoofer. It provides strong frequency response and tremendous power. Refined subwoofer cabinet allows fast and accurate low frequency response, making it best for dancing clubs, touring or installation applications.

X-21SUB equips a long 21" subwoofer driver. Strong neodymium magnetism provides extremely high magnetic flux, which improves the efficiency of the speaker. A 4.5" voice coil minimizes linear distortion under uniform magnetic forces. Up-to-dated paper cone ensures strongest rigidity and low move quality.

**FEATURES**

- Adopts Italian-made top class driver.
- Wear resisting and anti-scratches King Kong sand paint finishing.
- 1x21" driver with a 4.5" (115mm) voice coil.
- Live sound.
- Sound reinforcement for theaters.
- Music halls, banquet halls or permanent installations.
- Bars or clubs.

**Front****Left****Top****SPECIFICATIONS**

Model	X-21SUB
Frequency response	30Hz-180Hz
Driver	1x21" neodymium subwoofer driver
Sensitivity	99dB
Impedance	8ohm
Long-term power(RMS)	1700W
Power peak	6800W
Maximum SPL	137dB
Connector	2xSpeakon NL4
Enclosure material	Birch plywood
Finish	King Kong Sand paint coating
Product/shipping dimensions(WxDxH)	586x780x950(646x860x1040)mm
N.W/G.W	64.5kg/69.5kg

### X-218 subwoofer

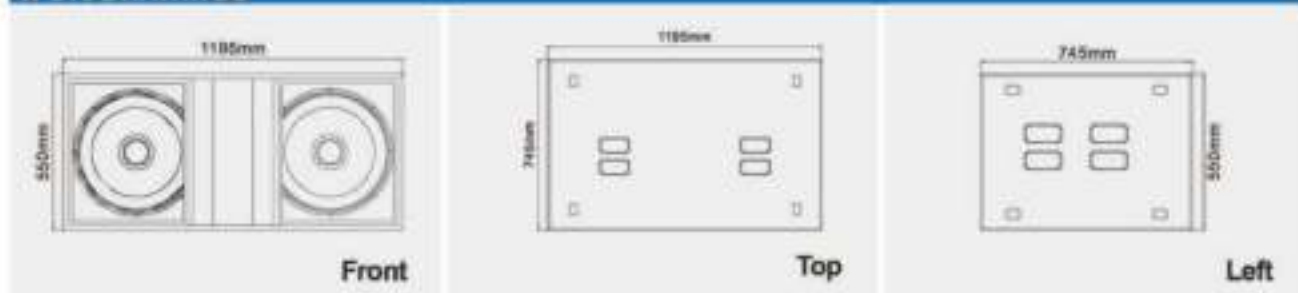
X-218 is a dual 18" subwoofer satisfying different kinds of demands for touring or permanent applications which requires very high power and rich lows. The cabinet adopts back horn loading construction, making it possible to minimize distortion because of random reflection inside. Black King Kong Sand coating lessens scratches during moving. The subwoofer employs two 18" neodymium woofers with 4" voice coil, perfectly matching with its long-throw construction, delivering unprecedented strong bass and impact force.

### FEATURES

- Back horn loading construction.
- 4" voice coil 18" Italian-made neodymium woofers.
- Highly noise absorbable materials.
- ABS extra strong anti-skid rubber feet.
- Low distortion but big dynamic.
- Canvas bag packing for waterproof as well as transportation protection.
- 4 wheels for fast moving. Super harden steel grille.
- Multi-layer birch laminate construction.
- Either touring or permanent applications.



### X-218 DRAWINGS



### SPECIFICATIONS

Model	X-218
Frequency response	35Hz-200Hz
Woofer	2x18" neodymium (100mm voice coil)
Sensitivity	102dB
Impedance	4 ohm
Long-term power(RMS)	2400W
Power peak	9600W
Maximum SPL	141dB
Connector	2x4-pin Speakon (+1-1)
Product/shipping dimensions(WxDxH)	1195x745x550(1250x800x775)mm
N.W/G.W	80.0kg/87.0kg



## COMMERCIAL SOUND SYSTEM

- › Network digital amplifier
- › M series speaker
- › IT+ series versatile speaker
- › SP series ceiling speaker
- › OM series coaxial speaker
- › T22B wall speaker
- › PP series weather resistant plastic speaker
- › HH series column speaker
- › Leaf-365 versatile speaker

FINISH THE LINES AND RECOORDINATES

### E300 network digital conference amplifier

E300D is a multi-functional digital fixed resistance and constant voltage power amplifier with DSP and Dante function. The RMS power of the amplifier are 2\*500W@4Ω, 2\*300W@8Ω, bridged 1000W@8Ω, and constant voltage 100V-1000W@10Ω. It features powerful functions, ingenious design, stunning sound quality and high efficiency as well as reliable stability, extreme portability and wide adaptability. E300 is a complete digital controlled device. It is equipped with PC communication port, USB port, RS232, RS485 and GPIO communication port, which can live monitoring the status of power amplifier. It can live set up compressor, limiter, noise gate, parameter equalization, matrix routing, delay and other DSP functions as well. DANTE interface can also be selected to implement this function, making digital transmission possible. Simple software interface provides simple setup and operation experience for customers. Various connection modes make it configurable, extensible and suitable for various kinds of applications. Extra compact 1U front panel with color display LCD screen enable live operation and simplify the control process.

### FEATURES

- 1U front panel with high resolution colored IPS LCD display.
- Network TCP/IP control, multiple devices can be linked and controlled.
- Remote power ON/OFF.
- Built-in DSP processor.
- Multiple PC connection optional, USB, TCP/IP, RS232 or RS485.
- Live distant control amplifier working status and each channel output power measurement or display.
- The power amplifier can be identified by software on site.
- Accepts balanced XLR input or unbalanced RCA input.
- One-click switching for stereo, bridge, mono and free matrix mode.
- 0 dBu or 6 dBu input sensitivity adjustable, software or color LCD screen setting available.
- Power on or standby settable.
- 100V or 70V, 8Ω or 4Ω available.
- Software control, which can control media matrix and professional processor at the same time.
- Accepts AC 90-260V.
- Dante network audio optional.
- Background music amplification and control, Hotels, Conference, Shopping center, Retail store, Restaurant.



### SPECIFICATIONS

Model	E300/E300D (DANTE)
Input volume	Mute, phase, level
Input EQ	5 bands PEQ
Input noise gate	Attack time 1-2895ms, Release time 1-2895ms, Attack level -120dBu-60dBu
DSP matrix	2x2 matrix
Output EQ	9 bands PEQ
Crossover	Butterworth, Bessel, Linkwitz, Slope 6-48
Output delay	2x16ms
Output compressor	Soft inflection point, attack level, attack time, compression ratio, release time
Output limiter	Attack level-90dBu-21dBu, release time 1-2895ms
Output volume	Mute, phase, level



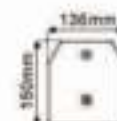
DSP preset	30 presets
Control	Ethernet, USB, RS485, RS232
Network specification	TCP/IP 1000base-T/100base-TX RJ45
Channel number	2
Power	2x300W@8Ω 2x500W@4Ω
Bridge power	1x1000W@8Ω
Min output impedance	4Ω per channel, 8Ω in bridge mode
Input connection	2xRCA Balanced 2xXLR;Unbalanced 2xRCA
Output connection	2xSpeakon, binding post
Cooling	Dual smart fans
Gain	6dBu sensitivity 30dB(29.5 times);0dBu sensitivity 36dB(31.1 times)
Max input level	6dB sensitivity 16dBu(4.9V)
S/N ratio	6dBu sensitivity 94dB;0dBu sensitivity 94dB
Frequency response	20Hz ~ 20kHz (±0.5dB)@1W,8Ω
THD+N	<0.1%@1W to full loading
Sampling rate	48K/24bit
Crosstalk	<-70dB
Working mode	Stereo, Bridge, Mono, Free Matrix
Distant control	Remote Power ON/OFF, standby and DSP monitoring
Amplifier monitoring	Temperature, Power, Voltage and Current
Constant voltage and constant impedance	100V,70V,8Ω,4Ω
DANTE(Optional)	2-channel DANTE
Display	240 x 240 pixels, IPS colored hard screen
Topology	XLR Line-out
Protection	Audio Limiter, High Temperature, DC, High Frequency, Short Circuit, Back EMF, Peak Current Limiter, Surge Current Limiter, Start-up Delay, Short cut, Over voltage/Under voltage Protection
PC software	Software control for media matrix, audio processor, DSP power amplifier, active DSP module
Weight	3kg
Dimensions	483x300x44.5mm
Power supply	AC 100V~240V

### KH4500 Adjustable Angle Linear Column Speaker

KH4500 employs 4pcs high performance 5" woofers and a 1" neodymium compression driver. It allows either single speaker application or 2pcs coupling by the connection hardware, making it possible for meeting different demands of different applications. All drivers for KH4500 are designed as vertical symmetry, which will avoid high frequency interference in coupling. In addition, the simple angle alternation function can change the vertical coverage angle very easily but without moving the speaker. Special design rigging hardware is available for multiple angles adjustment by either flying or wall mounting.

### FEATURES

- High performance drivers.
- Coverage adjustable.
- 4pcs of 5" woofers.
- One 1" neodymium compression driver.
- Fast rigging with multiple angles adjustable.
- Harden grille protection.
- Flexible installation.



### SPECIFICATIONS

Model	KH4500
Frequency response	80Hz-19KHz
Driver	Hi: 1x1"1" neodymium compression driver Low: 4x5"(25mm voice coil)
Sensitivity	96dB
Dispersion angle	H100°x V40°Vertical angle adjustable
Impedance	8ohm
Long-term power(RMS)	200W
Power peak	800W
Maximum SPL	125dB
Connector	2x SPEAKON NL4
Product dimensions(WxDxH)	136x150x640mm
Shipping dimensions(WxDxH)	702x359x212mm(x2)
N.W/G.W	8.0kg/20.0kg(x2)

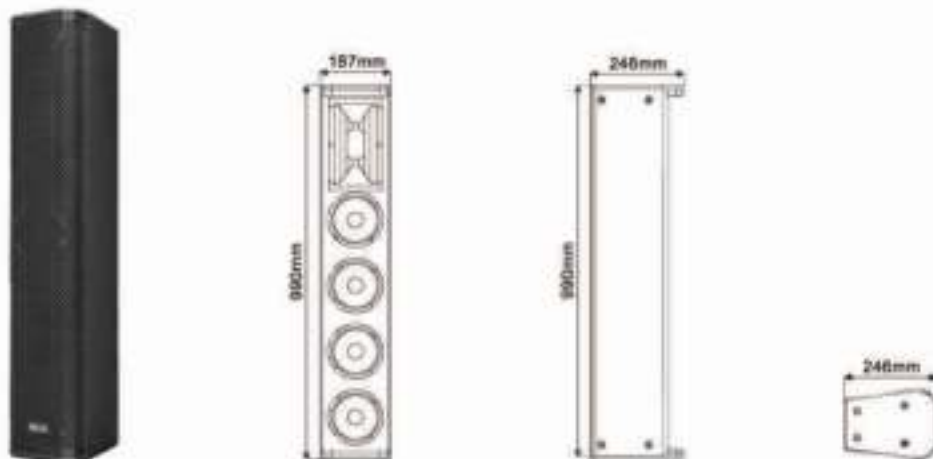


**KH4600 Adjustable Angle Linear Column Speaker**

The KH4600 consists of four high-quality 6.5" woofers and two 1" compression driver. It can either one piece application or two pieces combination through side connection ears for larger venues sound reinforcement. The column speaker is fine tuned to provide consistent sound coverage over a wide frequency range. The horn design also allows multiple KH4600 columns to form as an array, so as to achieve enhanced control through directivity in challenging acoustic environment. In addition, the simple angle selection function can adjust directly the vertical coverage angle from 0 to 15 degrees without moving the speaker. Different kinds of rigging brackets tailored for the KH4600 not only allow it to fly or mount on the wall but also provide multiple dispersion angles options.

**FEATURES**

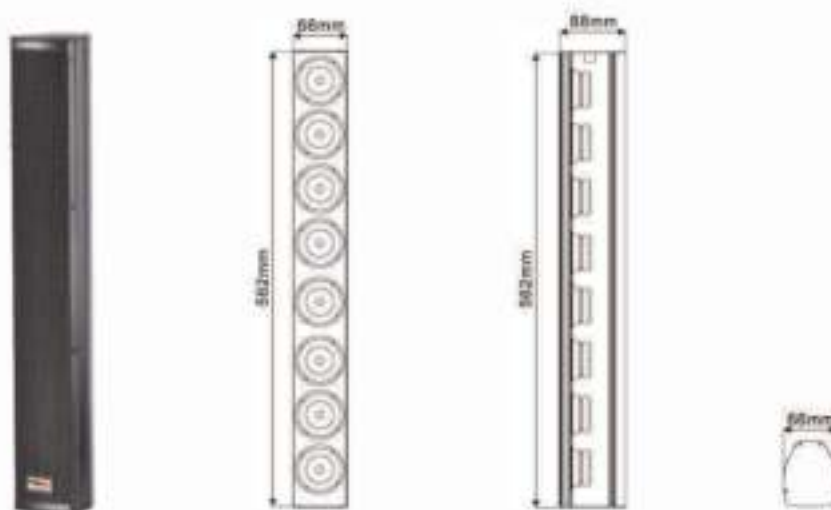
- Light weight, all neodymium drivers.
- Anti-collision and anti-scratch Kingkong paint coating.
- Four 6.5" woofer and two 34mm neodymium tweeters.
- Italian Lavoce drivers, Line sound source design.
- Fast rigging hardware.
- Multiple pieces combination application available.
- Multiple rigging eyebolts for flexible installations.

**SPECIFICATIONS**

Model	KH4600
Frequency response	80Hz-19KHz
Driver	H:2x1"compression driver Low: 4x6.5"(38mm voice coil)
Directivity angle	H100°xV10°
Option angles	0° 3° 6° 9° 12° 15°
Sensitivity	98dB
Impedance	8 ohm
Long-term power	500W
Power peak	2000W
Maximum SPL	131dB
Connector	2x4-pin Neutrik Speakon
Product dimensions(WxDxH)	195x246x990mm
Shipping dimensions(WxDxH)	1050x459x306mm
N.W/G.W	14.5kg/32.0kg (x2)

### KH8200 Linear Column Speaker

The KH8200 consists of 8pcs of high-quality 2" neodymium full range drivers. The column speaker is precisely designed to provide consistent sound coverage in a wide frequency range. The unique aluminum material for the cabinet ensures its durability. The speaker features excellent voice and music reproduction. It is suitable for all those places where language reinforcement is an essential factor. In addition, a special designed bracket is tailored for the KH8200. It can help the speaker with multiple angles coverage to meet the needs of different applications.



### SPECIFICATIONS

	Model	KH8200	KH8200 POE
Frequency response (±3dB)		120Hz-19KHz	120Hz-19KHz
Driver		8x2" neodymium	8x2" neodymium
Nominal impedance		4 ohm	4 ohm
Rated power		120W	120W
Sensitivity		93dB	93dB
Max SPL		120dB	120dB
Directivity		H120 °x V15 °	H120 °x V15 °
digital signal processing		-	One way 5-band PEQ/mute control
Connector		Speakon	RJ45
Power supply		-	POE + (IEEE 802.3 at)
Audio input		-	Dante
Bandwidth		-	100M / 1000Mbps
N.W.G.W		Aluminum	Aluminum
Material		Wall bracket	Wall bracket
Installation accessories		66x84x483mm	66x84x483mm
Product dimensions(WxDxH)		558x238x157mm(x2)	558x238x157mm(x2)
shipping dimensions(WxDxH)		5.0kg/13.0kg(x2)	5.0kg/13.0kg(x2)



### *M series professional speaker*

The M series speakers are professional loudspeakers specially designed and developed for small to medium size gymnasium, house of worship, and large size of conference halls, bars, clubs, etc. The main feature of the speaker is with its small cabinet and light weight, high power and stylish appearance. M series are two-way full range speakers with inverted construction. With transparent high frequency coverage, sweet voice reproduction, and high fidelity sound reinforcement, the speakers are practically excellent for vocal and instrumental performance.

M-112B, M-115B and M-118B are extremely compact and powerful woofers delivering extra bass for the M loudspeakers. Single speaker application or flexible combination between all B models of M speakers as a full, professional sound system, can easily satisfy different demands of many kinds of venues. M series speakers are no doubt the best choice!

### FEATURES

- Attractive front side arc design cabinet construction had gone through LEAP 5 test, which can achieve less stationary wave and ensures clear vocal sound reproduction.
- Refined directivity, frequency response and phase perfectly match.
- Extremely compact and high SPL, broad frequency response satisfies all music and vocal reinforcement.
- Characteristic handles, not only beautiful but also human oriented.
- Stylish appearance and small cabinet construction, good for installation in different styles of halls.
- Flexible hanging by eyebolts or wall-mount brackets enables fast and easy installation.
- High quality wooden cabinet and environmental nano composite paint coating ensures durable, and lasts its original condition of painting for a long time.



## SPECIFICATIONS



Model	M-106A	M-108A
Frequency response	75Hz-18KHz	70Hz-18KHz
Driver	6" LF driver;3"HF driver	8"LF driver;1"HF compression driver
Directivity angle	H100°xV80°	H100°xV80°
Impedance	8 ohm	8 ohm
AES power	100W	150W
Power peak	400W	800
Sensitivity	91dB	93dB
Maximum SPL	117dB	121dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	212x235x309(480x295x379)mm	253x278x430(563x338x510)mm
N.W/G.W	6.75kg/15.0kg(x2)	11.0kg/25.0kg(x2)

## SPECIFICATIONS



Model	M-110A	M-112A
Frequency response	75Hz-18KHz	55Hz-18KHz
Driver	10" LF driver;1" HF compression driver	12" LF driver;1" HF compression driver
Directivity angle	H100°xV80°	H90°xV80°
Impedance	8 ohm	8 ohm
AES power	250W	300W
Power peak	1000W	1200W
Sensitivity	95dB	97dB
Maximum SPL	125dB	128dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	306x322x492(667x392x582)mm	359x380x555.5(460x439x645)mm
N.W/G.W	15.8kg/34.0kg(x2)	22.5kg/24.5kg



**SPECIFICATIONS**



Model	M-115A	M-112B
Frequency response	50Hz-18KHz	40Hz-300Hz
Driver	15" LF driver; 1" HF compression driver	12" LF driver
Directivity angle	H80°xV50°	—
Impedance	8 ohm	8 ohm
AES power	450W	500W
Power peak	1800W	2000W
Sensitivity	98dB	96dB
Maximum SPL	130dB	129dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	438x418x664(528x508x764)mm	370x480x460(540x450x550)mm
N.W/G.W	32.0kg/36.0kg	22.0kg/24.5kg

**SPECIFICATIONS**



Model	M-115B	M-118B
Frequency response	35Hz-300Hz	30Hz-300Hz
Driver	15" LF driver	18" LF driver
Directivity angle	—	—
Impedance	8 ohm	8 ohm
AES power	800W	1200W
Power peak	3200W	4800W
Sensitivity	97dB	100dB
Maximum SPL	132dB	137dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	444x500x516(590x534x616)mm	520x580x600(612x672x690)mm
N.W/G.W	32.0kg/35.0kg	45.0kg/48.0kg

### TT+ series passive speaker

TT+ series speaker is another breakthrough of BIEMA GOLDSANGPRO family. It combines the advantage of wide frequency response, big dynamic range, low THD, high fidelity and perfect configuration design. Small matrix and line array combination or single speaker application, remarkable compact and light weight, outstanding power output and high SPL, making it suitable for use either as a primary loudspeaker in small rooms or as a distributed system in any type of smaller-to-medium application such as churches, stations, docks, airports and department stores.

### FEATURES

- High quality drivers deliver hifi sound reinforcement and stunning coverage.
- Extra compact but high power and high SPL, satisfy different applications.
- Multi-layer birch plywood, RoHS certified black or white lacquer finishing and super harden grille.
- Stylish appearance, unique configuration, flexible horizontal or vertical application either as a single cabinet or in small matrix and line arrays.

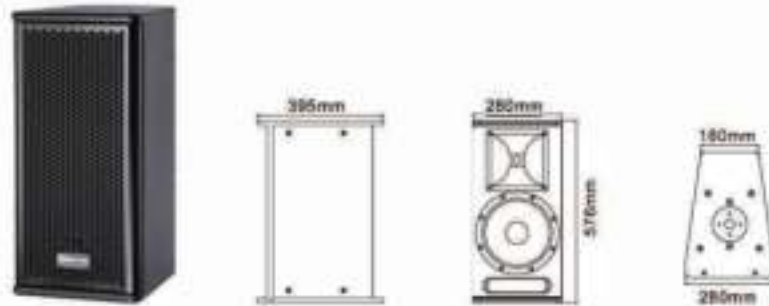
### SPECIFICATIONS



Model	TT+6	TT+8
Frequency response	80Hz-19KHz	75Hz-18KHz
Driver	6" LF driver, 1" HF compression driver	8" LF driver, 1" HF compression driver
Directivity angle	H80°xV50°	H80°xV50°
Impedance	8 ohm	8 ohm
AES power	200W	250W
Power peak	800W	1000W
Sensitivity	94dB	94dB
Maximum SPL	122dB	124dB
Connector	2xNL4R speaker	2xNL4R speaker
Product dimensions(WxDxH)	230x328x485mm	230x230x485mm
Shipping dimensions(WxDxH)	390x292x547mm	375x305x565)mm
N.W/G.W	10.6kg/12.5kg	13.8kg/15.0kg

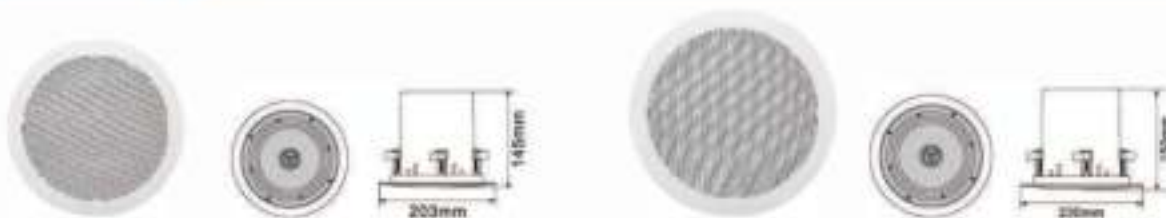


## SPECIFICATIONS



Model	TT+10
Frequency response	70Hz-18KHz
Driver	10" LF driver, 1" HF compression driver
Directivity angle	H80°xH50°
Impedance	8 ohm
AES power	350W
Power peak	1400W
Sensitivity	95dB
Maximum SPL	126dB
Connector	2xNL4R speakon
Product/shipping dimensions(WxDxH)	280x395x576(470x355x660)mm
N.W/G.W	21.5kg/23.5kg

## SP series ceiling speaker



## SPECIFICATIONS

Model	SP5	SP6
AES power	(100V) 5W/10W/15W/20W	(100V) 10W/15W/25W/30W
AES power	(70V) 1.25W, 2.5W, 5W, 10W, 20W	(70V) 1.9W, 3.8W, 7.5W, 15W, 30W
Max power	40W	60W
Directivity angle	110°	110°
Input	70V/100V/8Ω	70V/100V/8Ω
Sensitivity	88dB	89dB
Impedance	4KΩ/2KΩ/1KΩ/500Ω/240Ω	2.6KΩ/1.3KΩ/670Ω/330Ω/165Ω
Frequency response	110-20KHz	100-20KHz
Driver	5"×1, 1.5"×1	6.5"×1, 1.5"×1
Hole dimensions	Φ175mm	Φ200mm
Product/shipping dimensions(WxDxH)	203x203x145mm 250x250x180mm	230x230x150mm 250x250x180mm
N.W/G.W	1.7kg/3.0kg	2.2kg/4.0kg

## SPECIFICATIONS



Model	SP8	SP8B
AES power	(100V) 20W/25W/30W/40W	60W
AES power	(70V) 2.5W, 5W, 10W, 20W, 40W	-
Max power	70W	120W
Directivity angle	110°	110°
Input	70V/100V/8Ω	constant resistance /定阻
Sensitivity	90dB	92dB
Impedance	2KΩ/1KΩ/500Ω/250Ω/125Ω	8Ω
Frequency response	90-20KHz	50Hz-150Hz
Driver	8"x1;1.5"x1	8"x1
Hole dimensions	Φ240mm	Φ287mm
Product/shipping dimensions(WxDxH)	270x270x185mm 300x300x230mm	Φ303x205mm 365x365x267mm
N.W/G.W	3.0kg/4.5kg	2.9kg/3.8kg

## OM series coaxial speaker



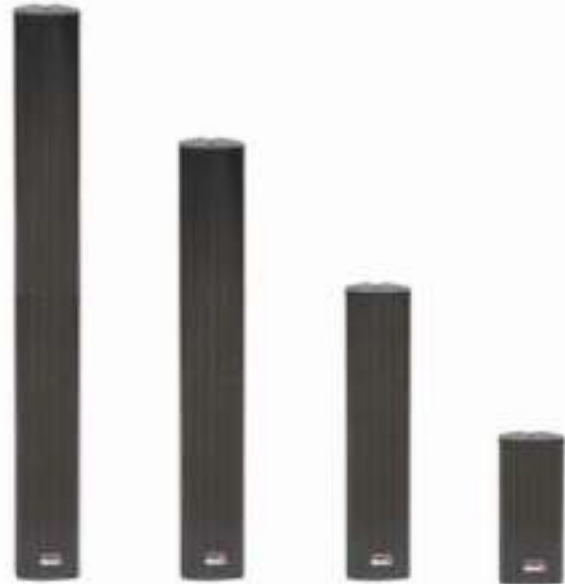
## SPECIFICATIONS

Model	OM106	OM108
Frequency response	70Hz-18KHz	65Hz-20KHz
Driver	BML-T602;T92-19-B	BML-T804;T92-19-B
Impedance	8 ohm	8 ohm
Directivity angle	H80°xV80°	H80°xV80°
AES Power	90W	150W
Power peak	360W	600W
Sensitivity	91dB	92dB
Maximum SPL	117dB	120dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/Shipping dimensions(WxDxH)	245x235x305(581x296x369)mm	285x273x386(350x335x468)mm
N.W /G.W	6.0kg/15.0kg(x2)	10.7kg/12.8kg

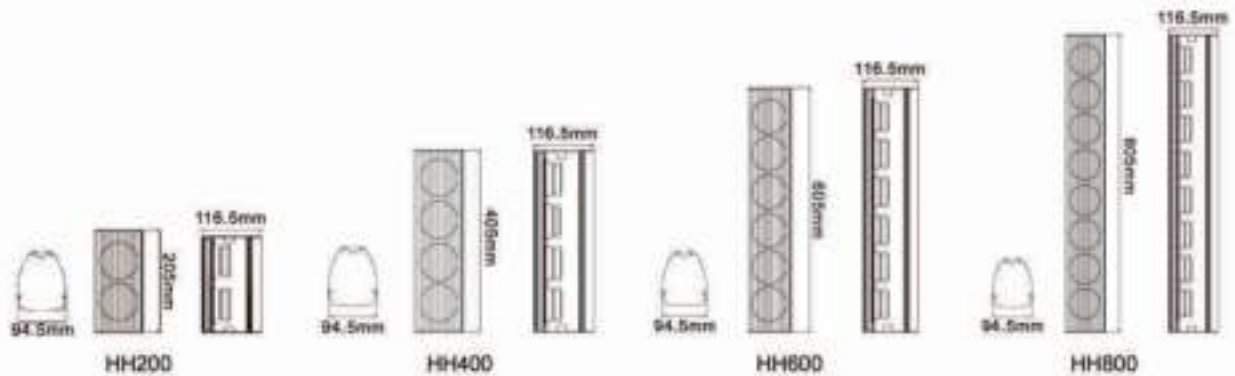


### HH series speaker

BIEMA HH series column speakers are tailored for small to medium venues, such as entertainment and sporting center, shopping malls, airports, education center and the like. The speakers are all 2-way configuration, available in black color. The drivers, woofers and loading of aluminum enclosure are measured by start-of-the-art professional sound simulation analysis software. High quality sound absorbable material and the accurate crossover perfect combination with a well-designed aluminum cabinet enable the whole speaker to deliver good and clear sound. Moreover, every component has been warming up for 300 minutes before assembling to the cabinet. That will ensure all components provide constant sound coverage and minimize distortion. There are eyebolts for suspension on the top and bottom covers, easy and simple installation.



### HH DRAWINGS



### SPECIFICATIONS

Model	HH200	HH400
Frequency response	120Hz-19KHz	110Hz-19KHz
Driver	BML-030.70x2	BML-030.70x4
Directivity angle	H120°xV15°	H120°xV15°
Impedance	16 ohm	8 ohm
AES power	60W	120W
Power peak	240W	480W
Sensitivity	90dB	93dB
Maximum SPL	114dB	120dB
Connector	Phoenix inserted	Phoenix inserted
Product dimensions(WxDxH)	94.5x116.5x205mm	94.5x116.5x405mm
Shipping dimensions(WxDxH)	162.5x333x369.5mm(x2)	162.5x369.5x491mm(x2)
N.W/G.W	2.0kg/6.0kg(x2)	3.3kg/8.8kg(x2)

SPECIFICATIONS			
Model	HH600	HH800	
Frequency response	100Hz-19KHz	90Hz-19KHz	
Driver	BML-030.70x6	BML-030.70x6	
Directivity angle	H120°x15°	H120°x15°	
Impedance	8 ohm	4 ohm	
AES power	180W	240W	
Power peak	720W	960W	
Sensitivity	95dB	97dB	
Maximum SPL	124dB	127dB	
Connector	Phoenix inserted	Phoenix inserted	
Product dimensions(WxDxH)	94.5x116.5x805mm	94.5x116.5x805mm	
Shipping dimensions(WxDxH)	162.5x369.5x651mm(x2)	162.5x369.5x651mm(x2)	
N.W/G.W	5.5kg/14.0kg(x2)	7.0kg/17.0kg(x2)	

### T22B series speaker

Biema T22B professional compressed speaker is a flat two-way mid & high range speaker specially designed for medium and small sized conferences or education activities.

Two 5" compressed driver for mid range can produce transparent and distortion-free sound. Its arced shape and its speaker cabinet are all tested by advance testing software. Every component is fabricated for good performance. The last but not least, it has fixing points for fast and safety installation.

### SPECIFICATIONS



Model	T22B
Frequency response	80Hz-18KHz
Driver	BML-T501x2;BMH-1301x1
Directivity angle	H95°xV95°
Impedance	16 ohm
AES power	80W
Power peak	320W
Sensitivity	93dB
Maximum SPL	118dB
Connector	2-way rectangular speaker terminal
Product/shipping dimensions(WxDxH)	552x100x352(430x305x633)mm
N.W/G.W	8.2kg/18.4.0kg(x2)



**PP series weather resistant plastic speaker**

The PP series speakers are a series of compact two-way plastic speakers. The speakers feature rich sound reproduction, wide coverage, consistent sound dispersion, flexible installation as well as beautiful appearance to meet various kinds of decorations no matter indoor or outdoor. This makes the PP series an excellent choice for a wide range of applications, including retail stores, hotels, fitness clubs, theme parks, educational facilities, hotels, music cafes, leisure places and any place with high demands indoor or outdoor. The equipped mounting accessories can facilitate multi angle adjustment.

**SPECIFICATIONS**

Model	PP40	PP50	PP60
Max/ Rated power	40W/20W	60W/30W	160W/80W
Input impedance	8Ω	8Ω	8Ω
Sensitivity(1m ,1w)	89dB	89dB	90dB
Directivity angle	H100°xV100°	H100°xV100°	H100°xV100°
Frequency response	90-20KHZ	80-20KHZ	70-20KHZ
Material	ABS	ABS	ABS
Product/shipping dimensions(WxDxH)	152x119x217mm 340x500x285mm(x4)	175x145x255mm 390x540x325mm(x4)	198x152x285mm 450x540x355mm(x4)
N.W/G.W	1.7kg/2.8kg	2.35kg/3.5kg	3.25kg/4.3kg

**Leaf-365**

Leaf-365 is a multi-purpose speaker with an attractive design. It looks stunning while mounting on the wall. In order to achieve strong performance in a very compact cabinet, it is equipped with a 6.5" low, a 4" mid and a 3" paper cone tweeter. The frequency response is up to 19KHz and it provides high speech clarity under a rated power of 120 watts. The sensitivity is 92 dB at 1 W / 1 m. A variety of installation accessories make hoisting fast and easy. It can be widely used in hotels, shopping malls, restaurants, training rooms, meeting rooms and family venues.

**FEATURES**

- Multi angle, multi orientation, quick and easy installation.
- A variety of application with multiple ways of installation.
- 6.5" woofer.
- 4" mid-driver.
- 3" paper-cone tweeter.
- Extra compact but high SPL.
- High speech clarity.

**SPECIFICATIONS**



Front



Left

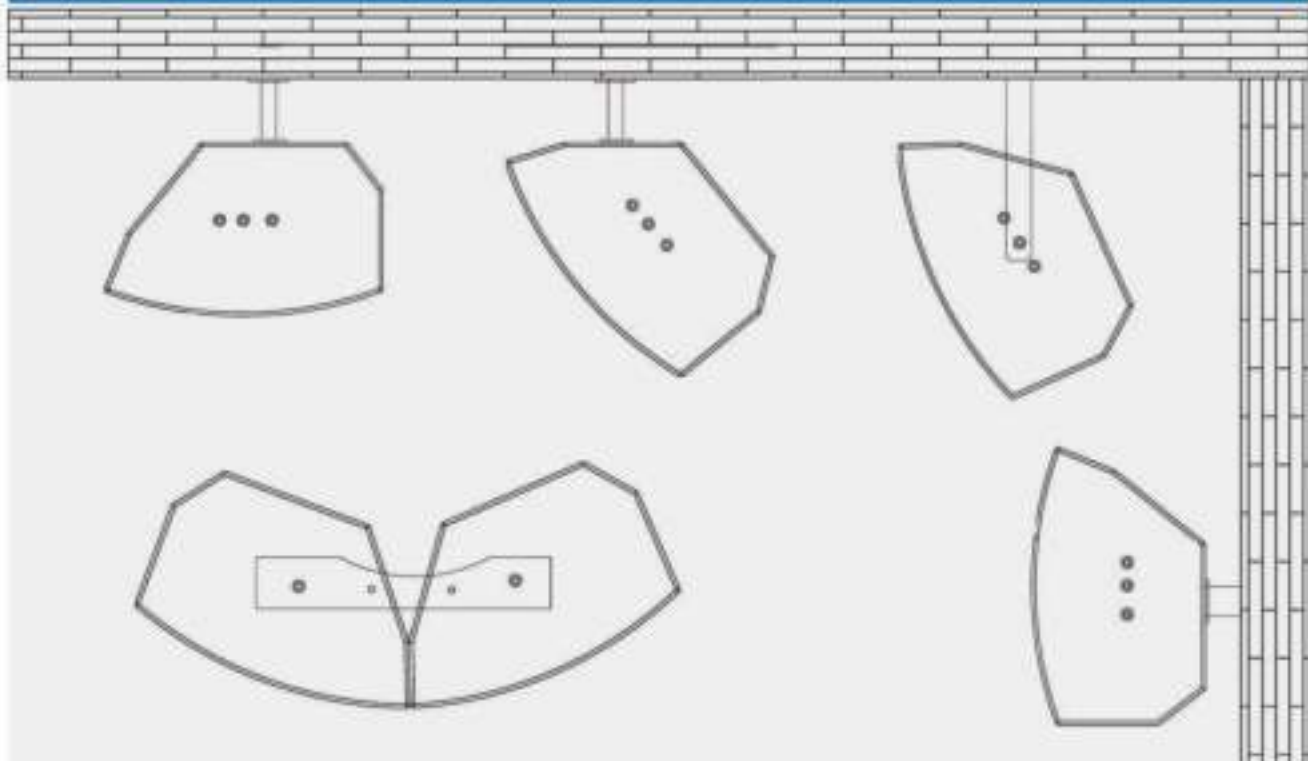


Top



Model	Leaf-365
Frequency response	60Hz-20KHz
Driver	Hi: 1x3" Mid: 1x4" Low: 1x8.5"
Sensitivity	92dB
Directivity angle	H120°xV120°
Impedance	8ohm
Long-term power(RMS)	120W
Power peak	480W
Maximum SPL	119dB
Connector	2 way rectangular speaker terminal
Product dimensions	156x280x448mm
shipping dimensions(WxDxH)	400x342x512mm(x2)
N.W/G.W	7.0kg/17.0kg(x2)

**DRAWINGS**





## INSTALLED SOUND SYSTEM

- › System 33 long-thrown speaker
- › System weather resistant speaker
- › T series project speaker
- › F2 series golden-cut speaker

THE WORKS OF THE TIMES WHEN COORDINATING THE  
FOR SEVERAL



### SYSTEM33 matrix speaker

SYSTEM33 is a kind of long-throw matrix speaker special designed for medium to big stadium or stations, ports, squares. It combines 2pcs of 6.5" mid drivers and 6pcs of 1" neodymium tweeters. Classic T type cabinet design with 2pcs of tweeters coaxially with a mid driver and 4pcs of tweeters cross installation, makes a stunning 30°x30° sound coverage by coupling waveguide horns. The horn positioned on the mid drivers is acting as a phase plug, which can effectively improve the frequency response and equalize sound wave path lengths from the driver to the listener as well as to prevent cancellations and mid hi frequency interference problems. The cabinet employs high quality imported 15mm plywood in an embedded grooving construction. There are 21 M8 eyebolts on the cabinet for flexible and convenient installation no matter line arraying or single speaker flying up. The high strength angle steel inside the cabinet ensures safe and reliable on multiple speakers hanging up. SYSTEM33S is a compact mid low speaker tailored for SYSTEM33 in music reinforcement applications.



SYSTEM33



SYSTEM33S

### DRAWINGS



### SPECIFICATIONS

	Model	SYSTEM33	SYSTEM33S
Frequency response		100Hz-20KHz	40Hz-500Hz
Driver		2x6.5"LF driver; 6x1"HF compression driver	12" LF driver
Directivity angle		30°x30°	—
Impedance		16 ohm	8 ohm
AES power		300W	400W
Power peak		1200W	1600W
Sensitivity		105dB	98dB
Maximum SPL		136dB	130dB
Connector		2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)		254x360x548(426x563x526)mm	420x478x505(510x560x596)mm
N.W/G.W		16.5kg/35.5kg(x2)	21.0kg/24.0kg



**SYSTEM 66 SYSTEM 99 all-weather speaker**

- Excellent sound projection and wideband directivity control.
- Big horn design minimizes unwanted room reflection.
- Improves vocal clarity in difficult acoustic environments.
- High sensitivity, wide frequency response, and excellent projection capabilities over moderate distances make this loudspeaker ideal for many general purpose voice and music applications.
- Corrosion-resistant zinc-rich Epoxy enclosure allows perfect working in all weather.
- Multi-layer powder-coated steel grille and thickening waterproof grille cotton.
- High power passive crossover and well-protection circuitry.
- Easy mounting installation, available for multi angles aiming.
- Ideally suited for stadiums, athletic fields, outdoor background music or paging, theme parks, amusement parks, Plazzas, convention centers and shopping malls.

**SPECIFICATIONS**

Model	SYSTEM66	SYSTEM99
Frequency response	70Hz-19KHz	65Hz-19KHz
Driver	1x3" compression driver; Low: 1x12"	1x3" compression driver; Low: 1x15"
Sensitivity	103dB	105dB
Directivity angle	H90°x40° rotatable	H90°x40°
Impedance	8ohm	8 ohm
Long-term power(RMS)	500W	600W
Power peak	2000W	2400W
Maximum SPL	136dB	139dB
Crossover Frequency	2KHz	1.8KHz
Product dimensions(WxDxH)	420x420x460mm	490x490x480mm
Shipping dimensions(WxDxH)	490x480x555mm	570x550x590mm
N.W/G.W	26.5kg/29.0kg	27.0kg/29.5kg

### T series project speaker

BIEMA T series professional speaker is a kind of traditional outdoor project speaker. This series features six models. T110A is a single 10" two-way full-range speaker. T112A is a single 12" full-range speaker. T115A is a single 15" two-way full-range speaker, T215A is a double 15" three-way full-range speaker. T181B is a single 18" subwoofer and T182B is a double 18" subwoofer

High sensitivity, high sound pressure transmission, high loading power, high frequency penetration, clear middle frequency, strong low frequency and the perfect accordance of high, middle, low PAN are the strike features of T series speaker. They are suitable for use in big-size and middle-size entertainment ground.

### SPECIFICATIONS



Model	T110A	T112A
Frequency response	65Hz-18KHz	65Hz-18KHz
Driver	10" LF driver; 1" HF compression driver	12" LF driver; 1" HF compression driver
Directivity angle	H80°xV80°	H80°xV80°
Impedance	8 ohm	8 ohm
AES power	250W	300W
Power peak	1000W	1200W
Sensitivity	96dB	97dB
Maximum SPL	126dB	128dB
Connector	2xNL4R speakon	2xNL4R speakon
Product dimensions(WxDxH)	350x332x570mm	400x390x640mm
Shipping dimensions(WxDxH)	430x413x673mm	481x470x764mm
N.W/G.W	18.9kg/18.4kg	27.4kg/29.4kg



**SPECIFICATIONS**



Model	T115A	T215A
Frequency response	65Hz-18KHz	60Hz-18KHz
Driver	15" LF driver, 1" HF compression driver	15"x2 LF driver, 6"x2 MF driver, 3" HF compression driver
Directivity angle	H80°xV80°	H80°xV80°
Impedance	8 ohm	4 ohm
AES power	450W	1200W
Power peak	1800W	4800W
Sensitivity	98dB	101dB
Maximum SPL	131dB	139dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	468x435x740(569x535x884)mm	519x505x1206(602x580x1335)mm
N.W/G.W	34.0kg/38.8kg	61.5kg/64.2kg

**SPECIFICATIONS**



Model	T181B	T182B
Frequency response	30Hz-300Hz	28Hz-300Hz
Driver	18" LF driver	18"x2(460mm)4"(100mm)voice coil LF driver
Impedance	8 ohm	4 ohm
AES power	600W	1200W
Power peak	2400W	4800W
Sensitivity	98dB	101dB
Maximum SPL	132dB	139dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	560x603x690(696x656x800)mm	1066x780x561(1195x920x720)mm
N.W/G.W	40.0kg/44.5kg	80.0kg/87.0kg

### F2 series Golden Cut® speaker

The new F2 series speakers are stylish and astounding. Its unique design has been registered. The patent number is ZL201230424782.3. All the full range speakers of F2 series are adopted phase inverted cabinet construction and artistic and humanistic special-design constant directivity horn, which makes the speakers not only keep a certain bandwidth and wave length but also deliver accurate sound thrown and coverage.

### FEATURES

- All woofers adopt special material paper cone and high-temperature resistant voice coil, reliable and safe.
- High sensitivity compression driver best matching with constant directivity horn, delivers transparent sound.
- Refined crossover system ensures each speaker optimal frequency response and best sound quality.
- Environmental harden spray black lacquer coating enables extreme wear-resisting.
- Hard wearing porous steel grille with golden cut cross, elegant and faddish.
- All full range speaker cabinets have multiple eye bolts on their bodies, convenient for different angle, different way or multiple speakers' combination suspension by different kinds of specialized suspension hardware (optional).
- Tailor-made ABS antiskid feet, stable and durable.
- F2 subwoofers allow horizontal or vertical operation in either single cabinet application or multiple cabinets stacking up.

### SPECIFICATIONS



Model	F2-106A	F2-108A
Frequency response	70Hz-18KHz	65Hz-18KHz
Driver	BML-T602;BMH-V270	BML-T804; BMH-V270
Directivity angle	H100°xV80°	H100°xV80°
Impedance	8 ohm	8 ohm
AES power	45W	75W
Power peak	180W	300W
Sensitivity	91dB	93dB
Maximum SPL	113dB	118dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	240x225x405(530x295x480)mm	285x270x455(635x350x550)mm
N.W/G.W	8.15kg/18.3kg(x2)	9.8kg/23.0kg(x2)



**SPECIFICATIONS**



Model	F2-110A	F2-112A
Frequency response	60Hz-18KHz	55Hz-18KHz
Driver	BML-T1002; BMH-A3	BML-T1202; BMH-A4
Directivity angle	H100°x V80°	H90°x V60°
Impedance	8 ohm	8 ohm
AES power	150W	200W
Power peak	600W	800W
Sensitivity	94dB	95dB
Maximum SPL	122dB	124dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	330x315x530(418x405x625)mm	375x360x610(475x470x725)mm
N.W/G.W	16.0kg/18.0kg	23.0kg/25.0kg

**SPECIFICATIONS**



Model	F2-115A	F2-215A
Frequency response	50Hz-18KHz	45Hz-18KHz
Driver	BML-T1502; BMH-A5	BML-T1502x2; BMH-A5
Directivity angle	H80°x V50°	H80°x V50°
Impedance	8 ohm	4 ohm
AES power	300W	600W
Power peak	1200W	2400W
Sensitivity	97dB	100dB
Maximum SPL	128dB	134dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	455x420x690(555x530x805)mm	455x420x1160(555x530x1275)mm
N.W/G.W	27.0kg/30.0kg	43.0kg/51.5kg

## F2-218B SUBWOOFER

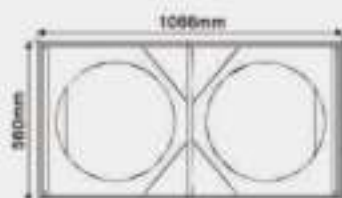
F2-218B is a direct thrown dual 18" subwoofer. It provides powerful performance. It is a perfect complement to the low-frequency reproduction of full-frequency speakers. Anti-skid rubber feet are equipped at a side and bottom of the cabinet, making it possible for vertical or horizontal stacking. Multiple handles are available at two sides of the cabinet. Multiple-layer birch plywood cabinet coating with black textured semi-matt lacquer adopts golden section design. Optimized cabinet design provides fast and accurate bass response, making it the best solution for dancing clubs, multifunction halls, touring or permanent installations.

## FEATURES

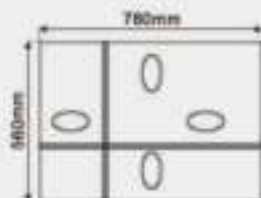
- Special design drivers.
- Black textured semi-matt lacquer finishing.
- 2\*18" woofers with 4" (100mm) voice coil.
- 18MM multi-layer plywood.
- Anti-skid rubber feet, available for vertical or horizontal stacking.
- Multifunction halls, banquet or other permanent installations.
- Bar or club sounds.



## SPECIFICATIONS



Front



Top



Left

Model	F2-218B
Frequency response	40Hz-180Hz
Driver	2x18" (100mm voice coil)
Sensitivity	101dB
Impedance	4ohm
Long-term power(RMS)	1200W
Power peak	4800W
Maximum SPL	138dB
Connector	2xSpeakon NL4
Enclosure material	Birch plywood
Finish	Waterborne semi-matt paint
Product/shipping dimensions(WxDxH)	1066x780x560(1138x852x632)mm
NWG/W	75.0kg/96.0kg



## CLUB SOUND SYSTEM

- › T2 series 15° definition speaker
- › K series karaoke speaker
- › F series karaoke speaker
- › Q series karaoke preamp
- › M series professional microphone

FINE WORKS OF THE TIMES AND NEW COORDINATES

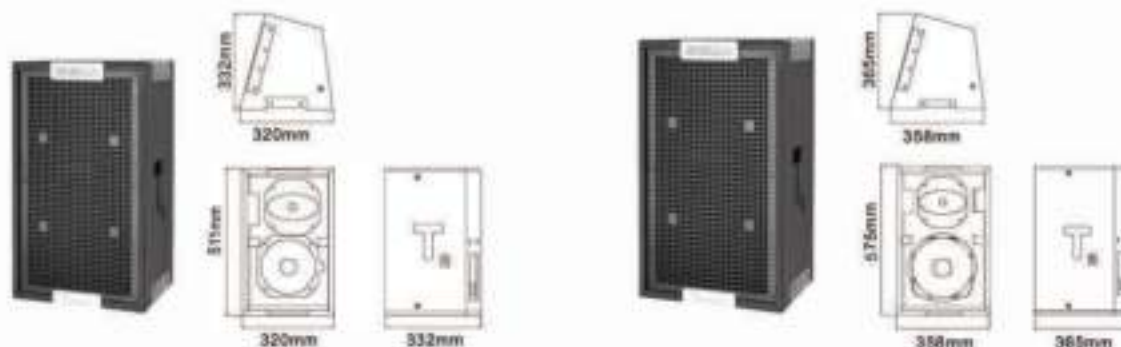
### T2 series 15°Defination<sup>®</sup> speaker

The T2 series speakers are a group of speakers tailored for both permanent installation or touring. The up-to-date acoustic concept has been employed to making full advantage of the cabinet. The speakers are not only very pleasing to the eye but also give good sound quality.

### FEATURES

- Innovative 15° Defination design<sup>®</sup>, i.e. the 15° elevation on the front and rear side of the speaker cabinet, makes the sound dispersion easily reach to the ears. The sound reproduction seems more natural and pure.
- Independent left and right side speakers design achieves perfect and accurate sound image localization.
- Each side 15° angle design optimizes the elimination of stationary wave.
- Optional 0° or 15° pole-mounting angle spreads out a fabulous coverage pattern.
- Refined directivity, frequency response and phase match perfectly.
- Characteristic handles not only faddish but also impregnate Biema's human oriented design concept.
- Quick rigging hardware, convenient for two or multiple speakers' combination installation.
- Trendy appearance and structure configuration, good for installation in different styles of buildings.
- Multi-ply birch plywood cabinet, less resonant but best sound reproduction.
- Up-to-dated environmental nano-composite paint coating, elegant texture but also durable.

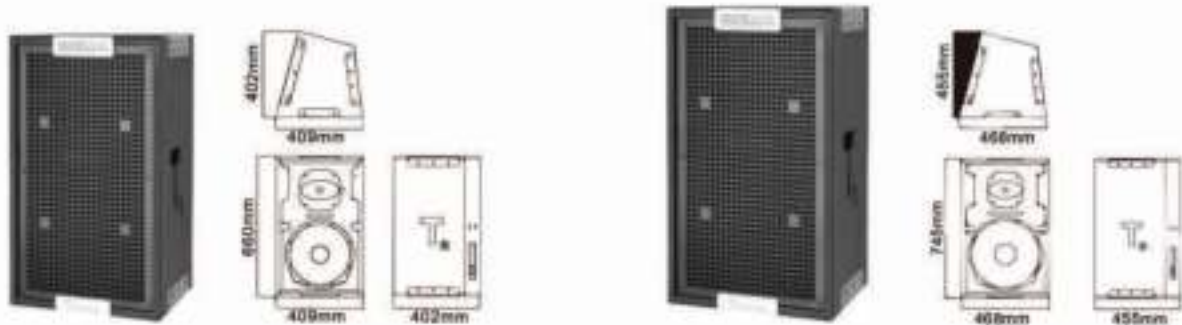
### SPECIFICATIONS



Model	T2-108A	T2-110A
Frequency response	45Hz-18KHz	70Hz-18KHz
Driver	8" LF driver; 1" HF compression driver	10" LF driver; 1" HF compression driver
Directivity angle	H100°xV80°	H100°xV80°
Impedance	8 ohm	8 ohm
AES power	200W	300W
Power peak	800W	1200W
Sensitivity	82dB	96dB
Maximum SPL	121dB	127dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	320x332x511(388x400x565)mm	358x365x575(427x432x650)mm
N.W/G.W	17.0kg/19.0kg	21.0kg/24.0kg

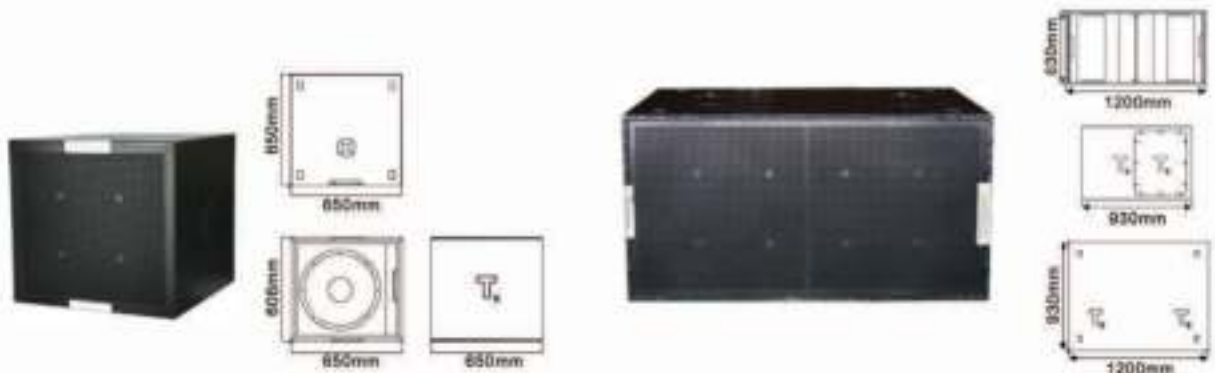


**SPECIFICATIONS**



Model	T2-112A	T2-115A
Frequency response	60Hz-18KHz	50Hz-18KHz
Driver	12" LF driver; 1" HF compression driver	15" LF driver; 1" HF compression driver
Directivity angle	H90°xV60°	H80°xV50°
Impedance	8 ohm	8 ohm
AES power	400W	600W
Power peak	1600W	2400W
Sensitivity	97dB	100dB
Maximum SPL	129dB	133dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	409x402x660(498x488x754)mm	468x455x745(558x543x839)mm
N.W/G.W	28.0kg/31.5kg	34.0kg/39.5kg

**SPECIFICATIONS**



Model	T2-181B	T2-182B
Frequency response	35Hz-200Hz	35Hz-200Hz
Driver	18" LF driver	18"x2 LF driver
Impedance	8 ohm	4 ohm
AES power	800W	2200W
Power peak	3200W	8900W
Sensitivity	99dB	102dB
Maximum SPL	134dB	141dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	650x650x606(758x758x720)mm	1200x930x630(1210x1060x680)mm
N.W/G.W	42.0kg/47.8kg	85.0kg/87.0kg

### Macaw K Series Professional Karaoke Speaker

Biema macaw k series professional karaoke system is designed under the demand of current Chinese KTV market. During the past 3 years developing, some senior experts from both at home and abroad are invited to develop the karaoke system, It has inherited the characteristics of those big Karaoke audio brands from Japan and Taiwan. Featuring sweet mid frequency reproduction, big dynamic range, high performance but very competitive prices, the coolest amplifier perfectly matches with a processor, microphones and speakers as a full compact system, tailored for any 15 to 80 square meters rooms. You will be very confident at your singing by Biema Macaw k Series Professional karaoke system. Your songs will be very pleasing to the ears of all the audiences as well.

### FEATURES

- Refined directivity, frequency response and phase perfectly match.
- Transparent coverage, sweet voice reproduction, and high fidelity sound reinforcement.
- Stylish, elegant and passionated cabinet design.
- Variable models from small to big power satisfy any kind of demands.
- High quality wooden cabinet achieves less stationary wave and ensures clear vocal sound reproduction.
- Environmental nano composite paint coating ensures durable, and lasts its original condition of painting for a long time.
- Best sound reinforcement for higher-class KTV, clubs, pubs and the like.

### SPECIFICATIONS



Model	K01	K03
Frequency response	50Hz-18KHz	50Hz-18KHz
Driver	Woofer : 2x8" LF driver Tweeter : 4x3" HF	Woofer : 1x10" LF driver Tweeter : 4x3" HF
Impedance	6 ohm	8 ohm
Long-term power(RMS)	270W	180W
Power peak	1080W	720W
Sensitivity	93dB	90dB
Maximum SPL	123dB	119dB
Connector	Banana jack	Banana jack
Product/shipping dimensions(WxDxH)	339x344x476(737x415x550)mm	500x293x318(700x400x600)mm
N.W/G.W	14.0kg/31.0kg(x2)	13.5kg/29.5kg(x2)



**SPECIFICATIONS**



Model	K10	K12
Frequency response	50Hz-18KHz	45Hz-19KHz
Driver	Woofer:1x10" LF driver Tweeter:1x1.5" compression driver	Woofer:1x12" LF driver Tweeter:1x1.7" compression driver
Directivity angle	H100°xV80°	H90°xV60°
Impedance	8 ohm	8 ohm
AES Power	450W	650W
Power peak	1800W	2600W
Sensitivity	94dB	97dB
Maximum SPL	126dB	131dB
Connector	2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)	300x340x524(705x410x600)mm	390x355x610(480x455x700)mm
N.W/G.W	15.0kg/33.0kg(x2)	20.9kg/23.2kg

**F Series Professional Karaoke Speaker**

- 10"high efficiency woofer
- 1.5" compression driver
- 15mm birch plywood sturdy cabinet
- Solid grille design
- Built in precise crossover
- Smooth and uniform coverage
- Best for Karaoke or club sound reinforcement



**SPECIFICATIONS**

Model	F10
Drivers	1.5"+10"
Frequency response	50Hz-18KHz
Sensitivity	95dB,
Impedance	8 ohm
Rated power	350W
Peak power	1400W
Directivity	H100°xV70°
Max SPL	126dB
Connector	NL4MP Speakon
Product/shipping dimensions(WxDxH)	300x340x533mm 360x400x593mm
N.W/G.W	18.0kg/20.0kg

### F Series Professional Karaoke Speaker

- 12" high efficiency woofer
- 1.5" compression driver
- 15mm birch plywood sturdy cabinet
- Solid grille design
- Built in precise crossover
- Smooth and uniform coverage
- Best for Karaoke or club sound reinforcement



#### SPECIFICATIONS

Model	F12
Drivers	1.5"+12"
Frequency response	45Hz-19KHz
Sensitivity	97dB
Impedance	8 ohm
Rated power	450W
Peak power	1800W
Directivity	H100°xV70°
SPL	129dB
Connector	NL4MP Speaker
Product/shipping dimensions(WxDxH)	350x382x600mm 420x442x680mm
N.W/G.W	23.0kg/26.0kg

### Q Series Professional Karaoke Preamplifier

- 15-band PEQ at music input channels, 7-band stereo digital tone control, and adjustable noise gate
- 15-band PEQ at MIC input channels, precise and effective level 4 anti-howl capability
- Direct USB connection to computer, WiFi adjustable available
- Accepts connection to IPHONE, IPAD and computer for software control
- 3 groups of RCA, optical fiber and coaxial inputs
- High quality multi-modes of reverb and echo technology
- Lock function after turn on and volume lock function
- Optional for manual or auto signal input
- VOD remote connector
- Password lock function



#### SPECIFICATIONS

Model	Q6
Maximum input level	4V RMS
Maximum output level	4V RMS
Music channel gain	MAX:12dB
Mic sensitivity	64mV Out:4V
S/N Ratio	>80dB
Input Voltage	-220V 50Hz
Product/shipping dimensions(WxDxH)	430x185x50mm 540x260x70mm
N.W/G.W	2.8kg/2.3kg



**M8W Microphone**

- Auto scan function.
- EIA international standard metal 1U cabinet.
- VA LCD screen fully displays channels, frequency, RF signal status, AF audio output status, scan status etc.
- Worldwide certified 12V/1A power supply.
- UHF PLL synthesized oscillation mode, 25MHz at every bandwidth.
- Dual antenna with dual mute and voice code locking loop circuitry, ensures stable performance even working in long distance.

**SPECIFICATIONS**

Model	M8W
Frequency range	640-690MHz
Dual antenna diversity receiver mode	
Oscillation mode	PLL
Number of channels	200
Frequency response	50Hz--18KHz
Working distance	80m barrier free
Bandwidth	50 MHz
Carrier stability	±5PPms10KHz
False image interference ratio	>80dB
SNR	>105dB(1KHz-A)
Sensitivity	-105dBm(12dB S/N AD)
Distortion	<0.5%@1kHz
Audio output impedance	2.2kΩ
Audio output level	-12dB
Mute mode	Mute & voice code locking loop
Display	LCD
Power supply	12-15V 800mA
Output connector	Balanced XLR Unbalanced TRS 6.3mm
Product/shipping dimensions(WxDxH)	410x148x44(520x410x80)mm
N.W/G.W	1.2kg/2.2kg



## LIVE SOUND SYSTEM

- › X-1 portable speaker
- › X-2 active arrayable speaker set
- › X-4 arrayable speaker
- › X-5 active arrayable column speaker set
- › X-6 active arrayable column speaker set
- › X-8 arrayable speaker
- › X-9 active arrayable speaker set
- › MC magic speaker
- › LIVE 30 portable live sound system
- › B2 series professional plastic speaker

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**X-1 series active portable speaker**

X-1 is a portable speaker designed for musicians, DJs and general touring events. Multiple input options and high power with an extra compact cabinet, makes it ready to be your go-anywhere. The speaker also features independent bass and EQ control, line signal input by a standard RCA or wireless input by Bluetooth. It can be mounted by a standard  $\phi 35$ mm speaker stand. Multiple aiming positions allow it ready to perform anywhere anytime.

- Co-axial configuration.
- Multiple aiming positions.
- Smooth frequency response.
- Multilayer plywood cabinet with abrasive wear resistant material finishing.
- Strong iron grille, Easy transportation.
- Flexible application.
- Best choice for touring and live sound reproduction, stage monitor, conference and likewise.

**X-1 DRAWINGS**

Front



Left



Top

**SPECIFICATIONS**

Model	X-1
Frequency response	50Hz-18KHz
Driver 单元组成	Hi:3x3" Low: 1x8" LF driver
Sensitivity	95dB
Impedance	8ohm
Long-term power(RMS)	180W
Power peak	720W
Maximum SPL	124dB
Connector	T12S RCA
Power supply	AC 110V-240V/50Hz
Output power	8 ohm 500W
Product/shipping dimensions(WxDxH)	260x262x370(334x312x422)mm
N.W/G.W	11.0kg/13.0kg

### X-2 series active arrayable speaker set

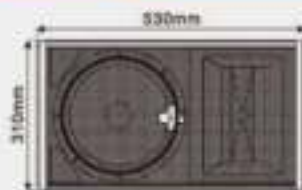
X-2 is the upgrade and more compact version of Biema  $\phi$  series versatile arrayable speaker. X2 adopts high performance neodymium drivers and built in refined class D amplifier with reliable DSP processor. The speaker features extra compact , big dynamic and hifi tone output. All cabinets had been special designed for easy and fast setting up no matter stacking or flying, single or multiple speakers applications. One set of X2 can meet different demands . Either single speaker used as a front of house sound fills or multiple speaker arraying or stacking as a main PA. Its flexibility can easily satisfy all requirements of small to medium sound reinforcement.

### FEATURES

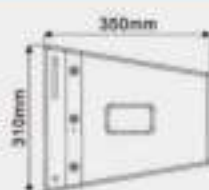
- Customized Italian neodymium woofers.
- Perfect matches with its high performance class D amplifier.
- Built-in multiple DSP preset .
- Easy and fast flying ,stacking or pole mounting.
- Flat spectrum , accurate phase and excellent transient response.
- Special finishing for anti-scratches and anti-collision.
- Fast and effortless pecking .
- Extremely flexible for all kinds of applications.



### X-2 DRAWINGS



Front



Left



Top



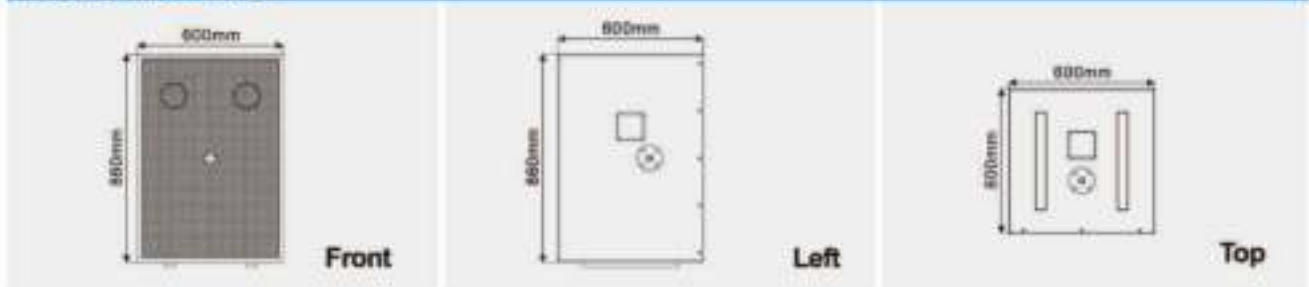


SPECIFICATIONS	
Model	X-2
Frequency response	60Hz-18KHz
Driver	Hi: 1x3" compression driver Low: 1x10" LF driver
Directivity angle	H100°xV7°
Sensitivity	100dB
Impedance	8 ohm
Rated power	400W
Power peak	1600W
Max SPL	132dB
Connector	2x4-pin Speakon
Product/shipping dimensions(WxDxH)	530x350x310mm 719x421x590mm
N.W/G.W	20kg/43kg(x2)

### X-2SUB FEATURES

- Flat spectrum , accurate phase and excellent transient response.
- Special finishing for anti-scratches and anti-collision.
- Fast and effortless packing.
- Extremely flexible for all kinds of applications.

### X-2SUB DRAWINGS



SPECIFICATIONS	
Model	X-2SUB
Frequency response	35Hz-300Hz
Driver	1x18" LF driver
Sensitivity	105dB
Impedance	8 ohm
Rated power	1000W
Power peak	4000W
Max SPL	141dB
Connector	2XLR+2x4-pin Speakon+ 2Power con
Power supply	AC 110V-240V/50Hz
Amplifier power	8 ohm:2x600W+1500W
DSP connector	One USB interface on front panel DSP
Product/shipping dimensions(WxDxH)	600x600x980mm 890x620x700mm
N.W/G.W	58.0kg/64.0kg

### X-4 series line arrayable speaker

X-4 is an extra compact but high SPL and hifi tone sound system. It composes of 4pcs of 1"neodymium compression tweeters and 8pcs of 4"full range drivers. The drivers are positioned in lines, making it possible for most compact cabinet but smoothest sound delivering and high definition no matter voice or music reproduction.X-4 also equips easy setup and suspension hardware. It complies with standard  $\phi$  35mm speaker stand as well. It is no doubt the best choice for small touring events, churches, multifunction halls, music bars, conference rooms and the like.

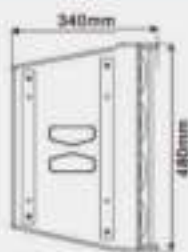
- Extra compact and liner sound configuration.
- Mounting, suspension or multi aiming positions.
- Smooth frequency response.
- Multilayer plywood cabinet with abrasive wear resistant material finishing.
- Strong iron grille.
- Reliable and easy connection or suspension hardware.
- Flexible application.
- Best choice for small touring events, churches, multifunction halls, music bars, conference rooms and the like.



### X-4 DRAWINGS



Front



Left



Top

### SPECIFICATIONS

Model	X-4
Frequency response	80Hz-19KHz
Driver	Hi: 4x1"compression driver Low: 8x4" MF driver
Sensitivity	97dB
Impedance	4 ohm
Long-term power	380W
Power peak	1520W
Maximum SPL	128dB
Connector	SPEAKON NL4
Product/shipping dimensions(WxDxH)	310x340x480(542x402x372)mm
N.W/G.W	18.0kg/20.0kg



**X-5 colinear active speaker set**

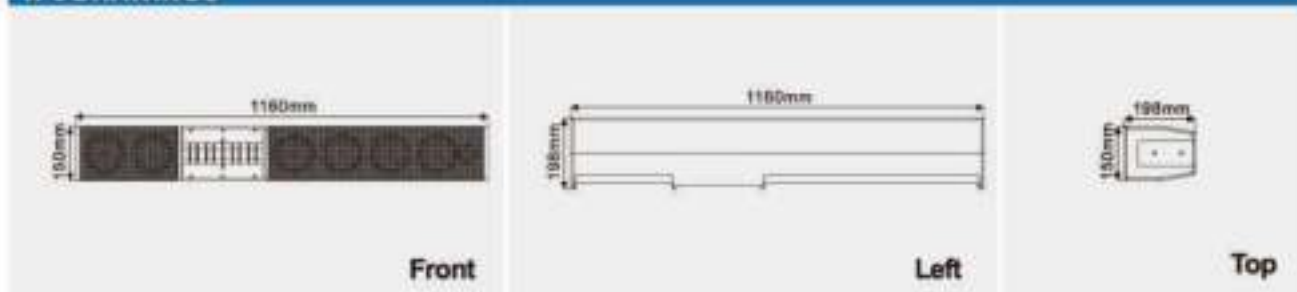
X-5 and X-5SUB are a colinear sound system newly launched by Biema. The speaker system is precise configured to achieve constant coverage at wide frequency range. Its horn is designed according to the golden ratio of ear hearing, which allows perfect directivity controls in any challenging acoustic environments. X-5 sub features vented bass enclosure with two 13.5 inch long-throw woofers, providing low frequency contour and extended bandwidth to X-5. The 13.5 inch woofers deliver heavy low but also rich mid, tailed for X-5 speaker as a stunning sound system. Built-in DSP processor and dual channel class D amplifier ensures big dynamic but extra compact system. For fixed installation, X-5 cabinet is equipped with multiple rigging points. It can easy and fast ground stack setting up with X-5 sub. X-5 can be stacked as a standalone system or secured onto one of its LF extensions. Wall mounting and flying are also possible. It is a very versatile sound system for different kinds of applications. It is also a good system for portable sound or live sound.

**FEATURES**

- Italian high-end drivers.
- King Kong sand paint finishing for anti-scratches and anti-collision.
- Built-in amplifier with DSP control.
- Colinear source design.
- Fast rigging hardware.
- Designed according to the golden ratio of ear hearing.
- Equipped multiple rigging points, mounting is also possible.



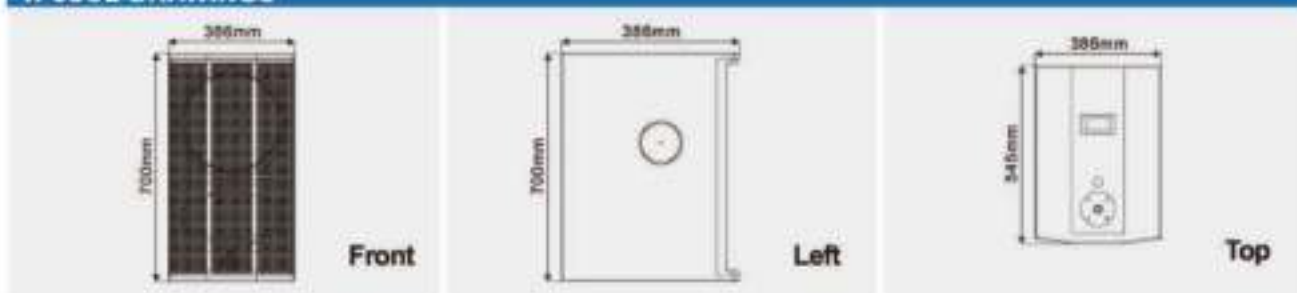
### X-5 DRAWINGS



### SPECIFICATIONS

Model	X-5
Frequency response	90Hz-19KHz
Drivers	Hi: 2x1" - compression driver Low: 6x5" MF driver
Directivity angle	H100°xV10°
Sensitivity	98dB
Impedance	8 ohm
Long-term power(RMS)	400W
Power peak	1600W
Maximum SPL	130dB
Connector	1x4-pin Speakon
Product/shipping dimensions(WxDxH)	1160x198x150(1210x390x430)mm
N.W/G.W	16.0kg/46.0kg(x2)

### X-5SUB DRAWINGS



### SPECIFICATIONS

Model	X-5SUB
Frequency response	45Hz-280Hz
Drivers	2x13.5" LF driver
Sensitivity	103dB
Impedance	4 ohm
Long-term power(RMS)	700W
Power peak	2800W
Maximum SPL	137dB
Connector	2XLR+ 1x4-pin Speakon+1 Powercon
Power supply	AC 110V-240V/50Hz
Output power	500W+1000W
PC interface	One USB interface on front panel DSP
Product/shipping dimensions(WxDxH)	386x545x700(1210x390x430)mm
N.W/G.W	42.0kg/102.0kg(x2)



**X-6 active column speaker set**

X-6 is an arrayable active column speaker set newly launched by Biema. The speaker had been refined until it delivers a constant sound coverage in a wide frequency range. Special horn design also allows two X-6 column speakers stacking up for stronger sound reproduction. X-6SUB, the subwoofer, adopts compressed cabinet design with 2pcs 15" long-throw woofers. It produces high power bass for the entire sound system. A high performance 2-channel amplifier with built-in DSP processor houses at the back of the subwoofer. Stunning cabinet design provides unprecedented mounting, flying, arraying and permanent installation flexibility, making it suitable for either installation or touring live sound application.

- All neodymium drivers, light weight but higher power.
- King Kong sand paint finishing for anti-scratches and anti-collision.
- 4pcs of 6.5" woofers and 2pcs of 34mm tweeters.
- Line array sound dispersion.
- Easy and quick setting up.
- Either single application or multiple speakers combination.
- Multi- eyebolts optional for stacking or flying.

**X-6 DRAWINGS****Front****Left****Top**

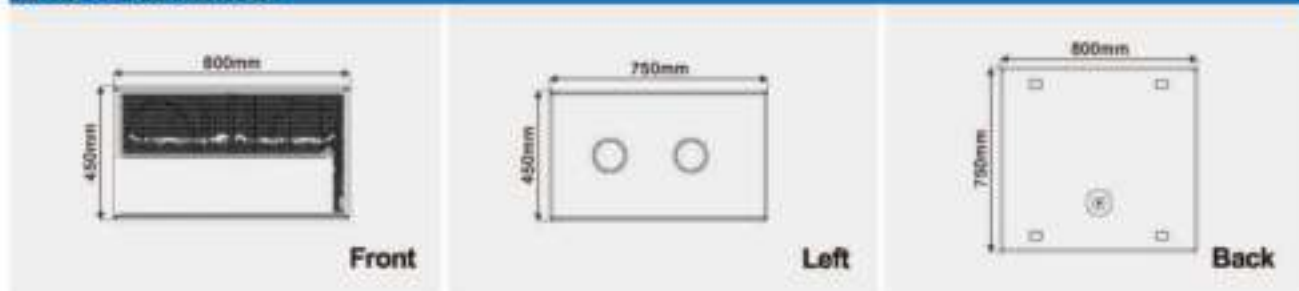


SPECIFICATIONS	
Model	X-6
Frequency response	80Hz-19KHz
Driver	Hi:2x1"compression driver Low: 4x6.5" LF driver
Directivity angle	H100°xV10°
Sensitivity	98dB
Impedance	8 ohm
Long-term power	500W
Power peak	2000W
Maximum SPL	131dB
Connector	2x4-pin Neutrik Speakon
Product/shipping dimensions(WxDxH)	195x246x990(1050x459x306)mm
N.W/G.W	14.5kg/32.0kg (x2)

### X-6SUB FEATURES

- Compressed cabinet design for stronger bass output.
- King Kong sand paint finishing for anti-scratches and anti-collision.
- 2pcs of 15" high power long-throw woofers.
- Multiple mounting options.
- High performance class D amplifier.
- Multi-user modes.
- Built-in DSP.

### X-6SUB DRAWINGS



SPECIFICATIONS	
Model	X-6SUB
Frequency response	40Hz-320Hz
Driver	2x15" LF driver
Sensitivity	103dB
Impedance	4 ohm
Long-term power	1000W
Power peak	4000W
Maximum SPL	139dB
Connector	XLR+SPEAKON
Power supply	AC 110V-240V/50Hz
Amplifier power	8 ohms:700W+1000W
PC interface	One USB interface on front panel DSP
Product/shipping dimensions(WxDxH)	800x750x450(810x510x860)mm
N.W/G.W	59.5kg/63.7kg



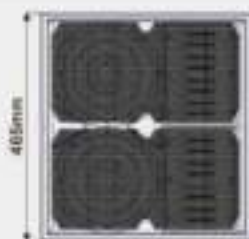
**X-8 vertical line source array speaker**

X-8 is a new concept plug and play arrayable speaker. 2 pcs of 8" woofers and 2pcs of 1" tweeters are housed in a very compact cabinet. All the drivers and the horn are designed under sound line arraying standard, filling up the gap of traditional speakers in arraying.

In order to achieve more flexibility and extension capability, wedge cabinets not only enable seamless connection from one to another but also little difference in vertical coverage. A full set of integrated rigging hardware has been fixed on the cabinet, very elegant but unambitious, which can easily satisfy all the installation requirements even in some complicated venues. Built-in high performance amplifier with passive crossover circuitry guarantees best performance of the speaker. X-8 is ideally suited for touring sound, meeting room, multifunction halls and medium to small live sounds.

**FEATURES**

- 2x8" woofer and 2x1" tweeter plug and play arrayable speaker with passive crossover.
- Special designed high quality drivers to minimize distortion.
- Equipped fast rigging hardware, either can mounting or flying.
- Smooth frequency response and more accurate sound reproduction.
- Multi-layer Kingkong paint finishing, not only wear resisting but also water proofing.
- Multiple combination options to meet more applications.
- More flexibility and extension capability.

**X-8 DRAWINGS**

Front



Left



Top



#### SPECIFICATIONS

Model	X-8
Frequency response	70Hz-18KHz
Driver	2x1" compression driver Low: 2x8" LF driver
Directivity angle	H110°xV8°
Sensitivity	99dB
Impedance	16 ohm
Long-term power(RMS)	500W
Power peak	2000W
Maximum SPL	132dB
Connector	2x Speakon n4
Product dimensions (WxDxH)	428x465x292mm
Shipping dimensions (WxDxH)	490x354x527mm
N.W/G.W	14.5kg/18.5kg

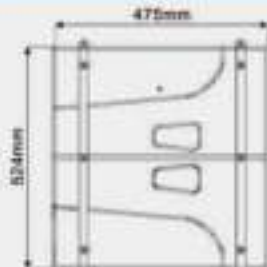
#### X-8SUB FEATURES

- Adopts 15" high power woofer.
- Equips fast rigging hardware for either mounting or flying.
- Smooth frequency and phase response, clearer sound reproduction.
- Multi-layer wooden cabinet with King Kong sand painting for wearing resistance as well as waterproof.
- Flexible combination suitable for different kinds of venues.
- Flight case packing for easy transportation.

#### X-8SUB DRAWINGS



Front



Left



Top



#### SPECIFICATIONS

Model	X-8SUB
Frequency response	40Hz-300Hz
Driver	1x15" LF driver
Sensitivity	102dB
Impedance	8 ohm
Long-term power(RMS)	700W
Power peak	2600W
Maximum SPL	136dB
Connector	2x4-pin Speakon
Product dimensions (WxDxH)	407x475x490mm
Shipping dimensions (WxDxH)	592x520x643mm
N.W/G.W	35.0kg/40.0kg



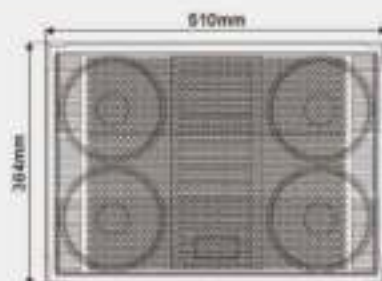
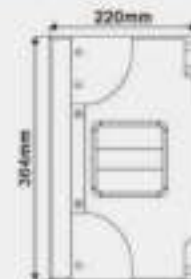
**X-9 active touring speaker system**

The X-9 is a very compact vertical line array speaker. It is pretty much clean and nice looking with rectangular cabinet design. The speaker employs 4pcs of 6.5 neodymium mid drivers and 2pcs of 1" neodymium compression drivers. It perfectly matches with its subwoofer, modeling X-9 SUB as a complete portable active speaker set, making it possible to meet the demands of various kinds of applications. There is a built-in amplifier with a DSP processor housed at the X-9 SUB. 2pcs of X-9 speaker can be mounted on the top of the X-9SUB. Thus it can help to save labor and transportation costs as well as installation and setting up time, then further improve the work efficiency.

Due to the human oriented design, two pieces of X-9 can configure as a line array. The rigging pins are fixed on the cabinet allows users easy set them up. Multiply layer painting finishing ensures excellent durability. The aluminum mounting base on the cabinet provides fast mounting X-9 speaker on its subwoofer X-9 SUB by a standard mounting pole. Special flying frame is available to hang up the speaker as a line array.

**FEATURES**

- All neodymium drivers, high power but light weight
- Anti-collision and anti-scratch paint coating
- Extra compact for easy transportation and space saving
- Easy and fast rigging hardware
- Vertical line arraying sound reinforcement system
- Mounting optional with aluminum mounting base on the cabinet
- Best for clubs, multifunction halls, live shows and touring events

**X-9 DRAWINGS****Front****Top****Left**

SPECIFICATIONS	
Model	X-9
Type	2-way line array speaker
Tweeter	2pcs of 1" neodymium compression drivers
Woofer	4pcs of 6.5 neodymium mid drivers
Frequency response	100Hz - 19KHz
Sensitivity	99dB
Max SPL	132dB
Directivity	H110° x V20°
Rate power (RMS)	500 W
Peak power	2000 W
Material	18MM plywood
Connectors	2x4-pin Speakon
Handles	2x left side
Product/shipping dimensions(WxDxH)	510x364x220(572x426x262)mm
N.W/G.W	20.0kg/23.0kg

### X-9SUB

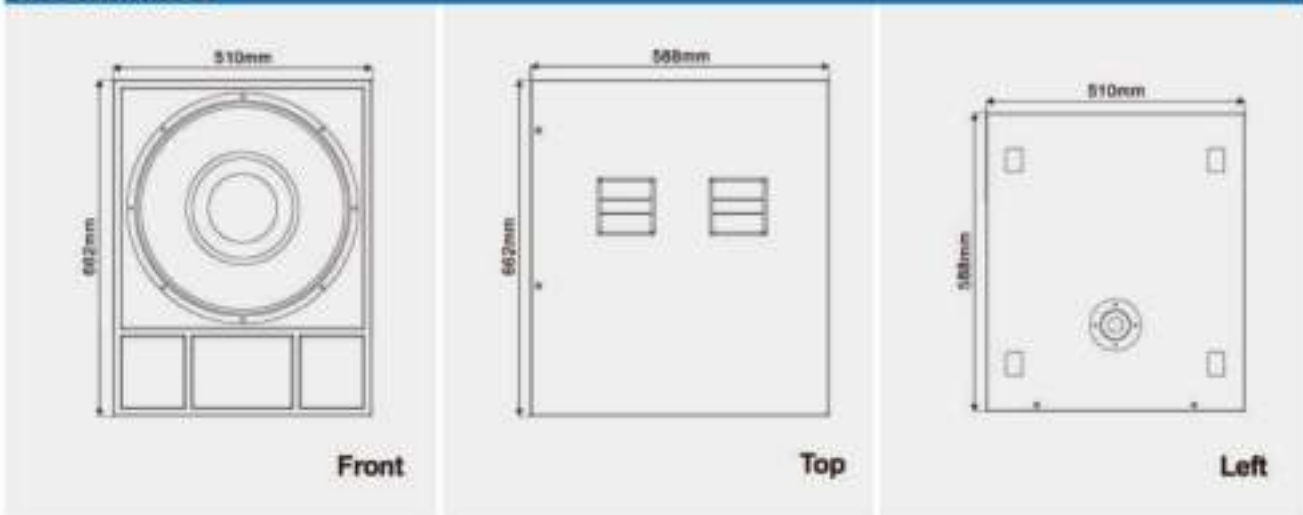
X-9 SUB is a high power active subwoofer speaker, tailored for X-9 as a complete sound system. The speaker employs a 18" big power neodymium driver and direct thrown design. It is very powerful thus it can supply unprecedented bass. The low-frequency optimized cabinet design provides fast and accurate bass response, which is very suitable for those places where bass enhancement is essential. Customized 18 inch ultra-low distortion driver with strong neodymium magnetic enables extremely high magnetic flux, which can improve its efficiency. The 4-inch voice coil ensures minimum linear distortion with consistent magnetic force. The most advanced paper cone ensures maximum rigidity and low moving mass. There is a built-in amplifier with a DSP processor housed at the X-9 SUB. Multiple factory presets can be turned to use for different kinds of sound requirements. This multi-functional active system can be transported or stacked in various ways. The cabinet size, shape and weight as well as accessories equipped are designed for easy transportation and handling. It can be stacked on the ground or flying with a frame at your finger tips. Multiple ways of configuration make it suitable for all kinds of small and medium-sized portable sound applications.





**X-9SUB FEATURES**

- Neodymium driver for high power but light weight.
- Anti-collision and anti-scratch paint coating.
- Extra compact for easy transportation and space saving.
- High performance amplifier with DSP processor.
- Multiple factory presets.
- Mounting optional with aluminum mounting base on the cabinet.
- Best for clubs, multifunction halls, live shows and touring events.

**X-9 DRAWINGS****SPECIFICATIONS**

Model	X-9SUB
Type	Active subwoofer speaker
Low driver	1x18" neodymium subwoofer driver
Frequency response	30Hz - 150 Hz
Sensitivity	101dB
Max SPL	137 dB
Rate power (RMS)	1000 W
Peak power	4000 W
Material	18MM plywood
Handles	4x left side
Product/shipping dimensions(WxDxH)	510x890x588(572x942x650)mm
N.W/G.W	53.0kg/58.0kg
<b>AMPLIFIER SPECIFICATIONS</b>	
Type	Class D
Cooling 冷却系统	Single fan
Processor	Controller DSP 56 bit
AD/DA converter	24 bit/48 kHz
System preset	Music Live Speech
Compressor	Dual active, RMS/Peak, Thermal
Connectors	2XLR+2x4-pin Speakon+ 2Power con
Computer connection	One USB interface on front panel DSP
Power supply	AC 110V-240V/50Hz

### MC series magic speaker

MC-115POWER magic speaker is a smart solution for simplifying a live sound system. The MC-115POWER can satisfy acoustic demands either as a main sound reinforcement speaker, a side fill speaker, a monitor or even as a Spatial Image System. Free from traditional sound systems with multiple kinds of speakers, only several pieces of MC-115 POWER can do. This great flexibility will help to save labor cost, transportation cost as well as set up time and significantly improve work efficiency.

MC-115POWER cabinet employs special acoustic design for providing phase correction for bass speakers and improving horizontal coverage and MF clarity. Built-in 1000W CLASS-D amplifier with advanced DSP processing, MC-115POWER magic speaker allows very linear phase transmission at the most critical points. It not only enhances the clarity of voice reproduction of the whole system, but also provides a more consistent coverage.

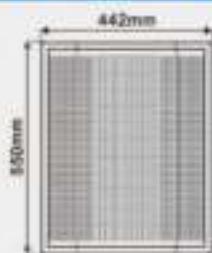
The innovation cabinet design of MC-115 POWER caters to the most demanding requirements of stage professionals. By simply rotating the dispersion angle, the monitoring angle can be changed in a few seconds. MC-115POWER is coated with multiple layers King Kong sand painting to ensure its excellent durability. Standard M8 eyebolts realize flying in different angles. Line arraying hardware is optional for easy rigging up as a line array. 0° or -7° pole mounting is also available to satisfy different applications.

### FEATURES

- High class neodymium drivers.
- Durable King Kong sand painting finishing.
- Built in high performance 1000W CLASS-D amplifier with DSP processing.
- Easy setup hardware.
- Golden ear acoustic design.
- Flexible setting up, either flying or pole mounting.
- Rotatable horn.



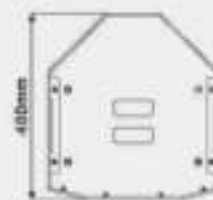
### MC-115 DRAWINGS



Front



Left



Top



**SPECIFICATIONS**

Model	MC-115	MC-115POWER
Speaker type	2-Way passive speaker	2-Way Active speaker
Frequency response	55Hz - 18KHz	55Hz - 18KHz
Max SPL	136 dB	136 dB
Tweeter	3"Voice Coil	3"Voice Coil
Woofer	15" 3"Voice Coil	15" 3"Voice Coil
Directivity	90x40° rotatable	90x40° rotatable
Amplifier	-	Class D
RMS power	1000 W	1000 W
Peak power	4000 W	4000 W
Cooling	-	Single fan
Processor	-	Controller DSP 56 bit
AD/DA converter	-	24 bit/48 kHz
System preset	-	Music Live Monitor
Compressor	-	Dual active, RMS/Peak, Thermal
Crossover	1700 Hz	1700 Hz
Cabinet material	18MM plywood	18MM plywood
Handles	2x left side	2x left side
Product dimensions(WxDxH)	442x550x480mm	442x550x480mm
shipping dimensions(WxDxH)	542x504x612mm	542x504x612mm
N. W /G. W	28.0kg/32.0kg	31.0kg/35.0kg

**MOUNTING**

## LIVE 30 PORTABLE SPEAKER

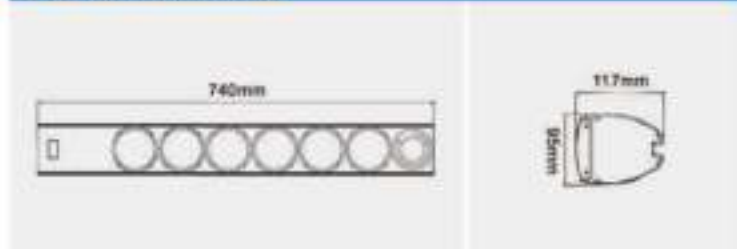
Live 30 is a plug and play active speaker set best for small live shows, small parties, bands, musicians and any sound reinforcement system which portable is the essential issue. The full range column speaker is coming with sturdy aluminum alloy housing. Excellent impact resisting performance, elegant finishing with glossy PU paint against scratch and smart structure in a very compact package make the speaker ideal for a great variety of applications. The subwoofer is equipped with high damping factor 12" woofer, delivering emphatic and rich lows. Presided port designs not only help the speaker to keep clear and good sound but also lower noise and minimize distortion. User-friendly mounting pole, patent number ZL201020646754.1, realizes fast connection and optional sound coverage. Column speaker perfect matches to powered subwoofer, giving stunning sound reproduction in almost any application or different kinds of venues. Live 30 is surely the most popular extra compact high power active speaker system worldwide. It features versatility, easy operation, extremely portable and wide application.

## FEATURES

- The full-range column speaker is housed in an elegant and sturdy aluminum alloy chassis. The subwoofer cabinet is made of high quality plywood coating with anti scratch paint.
- The high power SMPS amplifier housed on the subwoofer is a 4-channel Class D amp with DSP processing. This ensures clean and smooth mid highs but emphatic and rich lows.
- Multiple signal input options, flexible applications.
- Built-in Bluetooth receiver realizes control and listening to your favorite music wirelessly.
- The newly developed, integrated mounting pole enables far more convenient connection and selection of sound coverage angle.
- More stylish design and all functions integrate into one system, fast set-up and effortless handling.
- Built-in multiple DSP preset optional.
- Built-in professional effect processor, multiple effects optional.
- Anti-vibration packing optional.

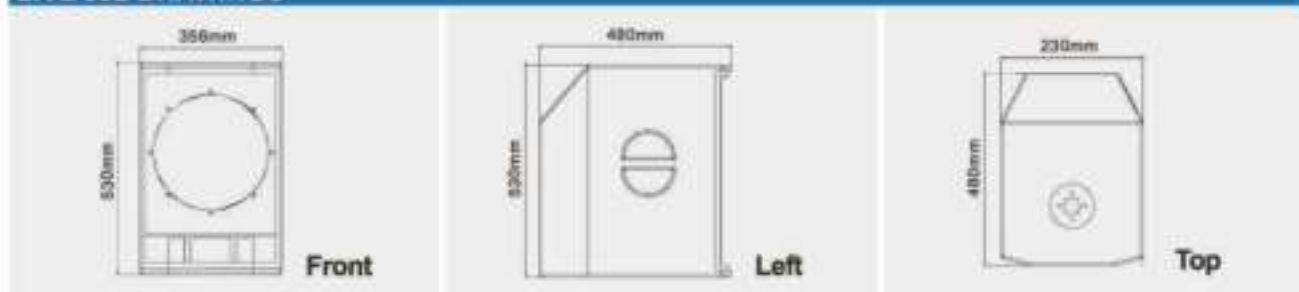


## LIVE 30A DRAWINGS





**LIVE 30B DRAWINGS**



**SPECIFICATIONS**

Model	LIVE 30a (Top)	LIVE 30b (Sub)
Frequency response	100Hz-18KHz	40Hz-250Hz
Driver	BML030.70x6 BMH 301	BML-BS1200
Directivity	H120° x V15°	-
Impedance	6 ohm	8 ohm
Rated power	200W	300W
Peak power	800W	1200W
Sensitivity	95dB	99dB
Max SPL	124dB	131dB
Protection		Opto- limiter, Subsonic filter
Power supply		100 - 240 V AC, 50 - 60 Hz, 1.5 - 0.6A
Power connector		IEC
Product dimensions	95x117x740(977x318x168)mm	356x480x530(642x418x592)mm
Net weight	6.2kg/9.0kg	22.0kg/27.0kg



### B2 series plastic speaker

Biema B2 are a series of active speakers newly-launched. There are total five kinds of sizes. The 6", 8" and 10" cabinets are not only stylish but also very compact, which can easy decorate any kinds of sound venues. The 12" and 15" cabinets are far more high power than traditional plastics speakers, which can complete with corresponding wooden cabinets in the same sizes. All speakers feature broad directivity, stunning mid and high sound reproduction, rich voice reinforcement and rugged quality. Its durability and quality, flexibility and scalability provide a variety of solutions for those small sound reinforcement venues such as Speech and vocals, music playback in entertainment, institutional venues especially when ease of use and portability are important factors or even live sound reinforcement.



SPECIFICATIONS		
Model	B2-106	B2-108
Frequency response	80Hz-18KHz	80Hz-18KHz
Driver	BML-T805,BMH-A2S	BML-T801,BMH-A2S
Directivity angle	H100°xV80°	H100°xV60°
Impedance	8 ohm	8 ohm
AES power	150W	200W
Peak power	600W	800W
Sensitivity	92dB	94dB
Maximum SPL	120dB	123dB
Connector	2xNL4R speaker	2xNL4R speaker
Product/shipping dimensions(WxDxH)	208x195x315(250x230x350) mm	266x268x425(330x310x485) mm
N.W/G.W	1.5kg/4.0kg(x2)	5.0kg/6.8kg

SPECIFICATIONS		
Model	B2-106POWER	B2-108POWER
Frequency response	80Hz-18KHz	80Hz-18KHz
Driver	BML-T805,BMH-A2S	BML-T801,BMH-A2S
Directivity angle	H100°xV80°	H100°xV60°
Impedance	4 ohm	4 ohm
AES power	150W	200W
Peak power	600W	800W
Sensitivity	92db	94dB
Maximum SPL	120dB	123dB
Connector	Servo-balanced	Servo-balanced
XLR connector	Servo-balanced	Servo-balanced
Input impedance	20K ohm	20K ohm
Sensitivity(line)	-4dB to +18 dB	-4dB to +18 dB
Limiter	Opto-controlled	Opto-controlled
Mains voltage	180-260V 50Hz	180-260V 50Hz
Fuse	180-260V T5A	180-260V T5A
Mains connector	Standard IEC connector	Standard IEC connector
Product/shipping dimensions(WxDxH)	208x195x315(250x230x350) mm	266x268x425(330x310x485) mm
N.W/G.W	2.5kg/7.0kg(x2)	6.0kg/7.8kg





SPECIFICATIONS			
	Model	B2-110	B2-112
Frequency response		75Hz-18KHz	65Hz-18KHz
Driver		BML-T1001; BMH-A3S	BML-T1206; BMH-A4S
Directivity angle		H90°xV60°	H80°xV40°
Impedance		8 ohm	8 ohm
AES power		300W	400W
Peak power		1200W	1600W
Sensitivity		95dB	97dB
Maximum SPL		126dB	129dB
Connector		2xNL4R speakon	2xNL4R speakon
Product/shipping dimensions(WxDxH)		356x265x560(410x400x620) mm	424x378x645(475x415x705)mm
N.W/G.W		12.5kg /14.5kg	17.0kg /21.0kg

SPECIFICATIONS			
	Model	B2-110POWER	B2-112POWER
Frequency response		75Hz-18KHz	65Hz-18KHz
Driver		BML-T1001; BMH-A3S	BML-T1206; BMH-A4S
Directivity angle		H90°xV60°	H80°xV40°
Impedance		4 ohm	4 ohm
AES power		300W	400W
Peak power		1200W	1600W
Sensitivity		95dB	97dB
Maximum SPL		120dB(continuous); 126dB(peak)	129dB
Connector		Servo-balanced	Servo-balanced
XLR connector		Servo-balanced	Servo-balanced
Input impedance		20K ohm	20K ohm
Sensitivity(line)		-4dB to +18 dB	-4dB to +18 dB
Limiter		Opto-controlled	Opto-controlled
Mains voltage		180-260V 50Hz	180-260V 50Hz
Fuse		180-260V T5A	180-260V T10A
Mains connector		Standard IEC connector	Standard IEC connector
Product/shipping dimensions(WxDxH)		356x265x560(410x400x620) mm	424x378x645(475x415x705)mm
N.W/G.W		14.0kg/16.0kg	20.0kg/24.0kg



### SPECIFICATIONS

Model	B2-115
Frequency response	60Hz-18KHz
Driver	BML-T1506; BMH-A55
Directivity angle	H80°xV40°
Impedance	8 ohm
AES power	450W
Peak power	1800W
Sensitivity	98dB
Maximum SPL	131dB
Connector	2xNL4R speakon
Product/shipping dimensions(WxDxH)	450x408x685(500x450x730)mm
N.WG.W	25.0kg/28.5kg

### SPECIFICATIONS

Model	B2-115POWER
Frequency response	60Hz-18KHz
Driver	BML-T1506; BMH-A55
Directivity angle	H80°xV40°
Impedance	4 ohm
AES power	450W
Peak power	1800W
Sensitivity	98dB
Maximum SPL	131dB
Connector	Servo-balanced
XLR connector	Servo-balanced
Input impedance	20K ohm
Sensitivity(line)	-4dB to +18 dB
Limiter	Opto-controlled
Mains voltage	180-260V 50Hz
Fuse	180-260V T 10A
Mains connector	Standard IEC connector
Product/shipping dimensions(WxDxH)	450x408x685(500x450x730)mm
N.WG.W	28.0kg/31.5kg



## MULTIMEDIA SPEAKER SYSTEM

- › MUSIC CITY multimedia active speaker set
- › isound multimedia active speaker set



### **MUSIC CITY mutli-media active compounding speaker system**

Ushering in a new era for professional and home audio technology, the MUSIC CITY is much more than a powered speaker set. Remarkable convenient and flexible, the speaker set allows you to wirelessly control and listen to music at your finger tip. The full range column speaker is coming with sturdy aluminum alloy housing. Excellent impact resisting performance, elegant finishing with glossy PU paint against scratch and smart structure in a very compact package make the speaker ideal for a great variety of applications. The subwoofer is equipped with high damping factor woofer component, delivering emphatic and rich lows. Precise port designs not only help the speaker to keep clear and good sound but also lower noise and minimize distortion. User-friendly mounting pole, patent no. ZL201020646754.1, realizes fast connection and optional sound coverage. Column speaker perfect matches to powered subwoofer, giving stunning sound reproduction in almost any application or different kinds of venues. MUSIC CITY is surely a smart solution at home or for those public places such as schools, hotels, shops, markets, small parties, etc.

Biema Music city series speaker is an up-to-dated big power but extra compact active speaker set. It enjoys complete functions, touring capability, easy operation and flexible applications.

### **FEATURES**

- The full-range column speaker is housed in an elegant and sturdy aluminum alloy chassis. The subwoofer cabinet is made of high quality plywood coating with glossy PU paint.
- The high power SMPS amplifier mounted on the subwoofer is a 3-channel Class D amp with DSP processing.
- MH limiter protects the column speaker from overload while also produces perfect sound owing to lower distortion near threshold.
- LC limiter allows tighter low-end punch as more efficient energy is being used but less kicks appear. It will safeguard the speakers against the damage of inharmonic distortion.
- RF frequency response technology reduces noise of the system and rectifies no-linear frequency response.
- Subsonic filter protects power amp and speakers form harmful ultra-low frequencies. At the same time it increases power and volume in the usable frequency range.
- Optional RCA line input achieves flexible application.
- Built-in Bluetooth receiver realizes control and listening to your favorite music wirelessly.
- The newly developed, integrated mounting pole enables far more convenient connection and selection of sound coverage angle.
- More stylish design and all functions integrate into one system, fast set-up and effortless handing.
- Bluetooth, USB, SD or TF inputs, FM, record function with digital display and remote controller, different version optional.







**SPECIFICATIONS**

Model	MUSIC CITY 800a (Top)	MUSIC CITY 1000a (Top)
Frequency response	120Hz-18KHz	100Hz-18KHz
Driver	BML-T302x2	BML-T302x6
Impedance	16 ohm	8 ohm
Long-term(RMS)	60W	180W
Power peak	240W	720W
Sensitivity	90dB	95dB
Maximum SPL	113dB	124dB
Product/Shipping dimensions(WxDxH)	467x94.5x116.5/1038x203x168(x2)mm	700x94.5x116.5/948x318x168(x2)mm
N.W/G.W	4.0kg/9.2kg(x2)	7.0kg/15.0kg(x2)

Model	MUSIC CITY 800b (Sub)	MUSIC CITY 1000b (Sub)
Frequency response	40Hz-250Hz	35Hz-250Hz
Driver	BML-L0803x1	BML-L1003x1
Impedance	8 ohm	8 ohm
Long-term(RMS)	200W	250W
Power peak	800W	1000W
Maximum SPL	122dB	125dB
Sensitivity	93dB	95dB
Protection circuit	Opto-limiter, Subsonic filter	Opto-limiter, Subsonic filter
Input sensitivity	0.775V	0.775V
Low Pass frequency	20-250Hz	20-250Hz
Product/Shipping dimensions(WxDxH)	290x330x400/709x487x422(x2)mm	350x410x500/828x587x502(x2)mm
N.W/G.W	13.0kg/28.4kg(x2)	19.0kg/40.2kg(x2)

### Isound multimedia active speaker set

The isound speaker is a new generation of multimedia digital active speaker system. The cabinets employ up-to-dated Liquid Composite Molding Technology, not only stylish but also perfect physical curve. Featuring accurate, clear and rich sound reproduction, the isound speaker equipped the newest Biema high performance digital amplifier. It functions Bluetooth, USB, SD, TF and radio playing with digital display and remote control. The isound speaker can perfectly match with MAC, PC, APPLE and ANDROID or other smart devices, making you possible to enjoy high fidelity music wirelessly. Optional microphones connection also allows you to sing your favorite songs in a finger tip.

### FEATURES

- Optional cable microphone inputs
- Optional standard RCA line audio input by PC, MP3, DVD, VCD and CD
- Optional Bluetooth, USB, SD, TF input and FM radio playing with digital display and remote control
- Independent microphone level and echo control
- Music level control
- Separate treble and bass level control
- Big power in a very compact cabinet
- Hifi music playing and transparent human voice reproduction from microphones
- Extremely easy handling



### SPECIFICATIONS

Model	isound6	isound8 / isound8m
Frequency response	80Hz-18KHz	60Hz-20KHz
Driver	BML-T805, BMH-A2S	BML-T805, BMH-A2S
Directivity angle	V100°xV80°	H100°xV80°
Impedance	4 ohm	4 ohm
AES power	150W	200W
Sensitivity	600W	800W
Maximum SPL	92db	92db
Connector	120dB	123dB
XLR connector	Servo-balanced	Servo-balanced
Input impedance	Servo-balanced	Servo-balanced
Sensitivity(line)	20K ohm	20K ohm
Limiter	-4dB to +18 dB	-4dB to +18 dB
Mains voltage	Opto-controlled	Opto-controlled
Fuse	180-260V 50Hz	180-260V 50Hz
Mains connection	180-260V T5A	180-260V T5A
Mains connection	Standard IEC connector	Standard IEC connector
Product dimensions(WxDxH)	205x195x305mm	265x250x410mm
shipping dimensions(WxDxH)	472x262x365mm	660x325x490mm
N.W/G.W	4.5kg/10.2kg(x2)	8.0kg/18.0kg(x2)



**SPECIFICATIONS**

Model	isound10 / isound10m	isound12 / isound12m
Frequency response	60Hz-20KHz	65Hz-18KHz
Driver	BML-T1001, BMH-A3S	BML-T1206; BMH-A4S
Directivity angle	H90° xV60°	H80° xV40°
Impedance	4 ohm	4 ohm
AES power	300W	400W
Sensitivity	1200W	1600W
Maximum SPL	95db	97dB
Connector	126dB	129dB
XLR connector	Servo-balanced	Servo-balanced
Input impedance	Servo-balanced	Servo-balanced
Sensitivity(line)	20K ohm	20K ohm
Limiter	-4dB to +18 dB	-4dB to +18 dB
Mains voltage	Opto-controlled	Opto-controlled
Fuse	180-260V 50Hz	180-260V 50Hz
Mains connection	180-260V T5A	180-260V T10A
Product dimensions(WxDxH)	Standard IEC connector	Standard IEC connector
shipping dimensions(WxDxH)	380x350x550(810x420x630)mm	424x378x645(475x415x705)mm
N.W/G.W	14.5kg/ 30.0kg	20.0kg/24.0kg

**SPECIFICATIONS**

Model	isound15
Frequency response	60Hz-18KHz
Driver	BML-T1508; BMH-A5S
Directivity angle	H80° xV40°
Impedance	4 ohm
AES power	450W
Peak power	1800W
Sensitivity	98dB
Maximum SPL	131dB
Connector	Servo-balanced
XLR connector	Servo-balanced
Input impedance	20K ohm
Sensitivity(line)	-4dB to +18 dB
Limiter	Opto-controlled
Mains voltage	180-260V 50Hz
Fuse	180-260V T10A
Mains connection	Standard IEC connector
Product/shipping dimensions(WxDxH)	450x408x685(500x450x730)mm
N.W/G.W	28.0kg/31.5kg



# WINDFORCE<sup>®</sup> POE SYSTEM

THE FIRST UNPLUGGED ACTIVE SPEAKERS IN THE WORLD

The overturned innovation in professional audio industry,  
The ultimate solution for smart network system.

- A black tech over 30 years' development by top scientists and elites in audio industry
- Technology supports from more than 25 global invention patents
- Cross-border fusion ,Cross-filed integration
- Counter-traditional, subversive and innovative speakers
- High integration, less extra hardware
- Versatile and extremely smart
- Full network standardization and full set compatible control
- Low consumption and high efficiency, energy saving and environmental protection

BIEMA, THE ACTIVE SPEAKER EXPERT

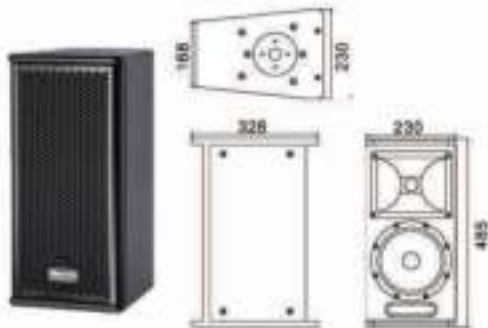


**TT+ POE speaker (DANTE)**



**SPECIFICATIONS**

Model	TT+6POE
Frequency response	75-18KHz
Woofer	6.5" LF driver
Tweeter	1" compression driver Low
Directivity	H100°x V80°
Power	150W
Audio input	Dante
Working mode	Class D
Bandwidth	100M/1000M bps
SPL	114dB(continuous); 120dB(peak)
Connector	Single RJ-45
Product/shipping dimensions(WxDxH)	212x235x248mm
N.W/G.W	10.0kg/11.7kg



**SPECIFICATIONS**

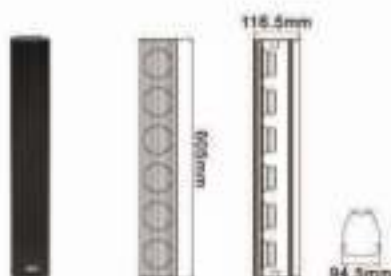
Model	TT+8POE
Frequency response	75Hz-18KHz
Woofer	8" LF driver
Tweeter	1" compression driver Low
Directivity	H80°xV50°
Power	250W
Audio input	Dante
Working mode	Class D
Bandwidth	100M/1000M bps
SPL	118dB(continuous);124dB(peak)
Connector	Single RJ-45
Product/shipping dimensions(WxDxH)	230x328x485mm
N.W/G.W	13.8kg/15.3kg



**SPECIFICATIONS**

Model	TT+10POE
Frequency response	70Hz-18KHz
Woofer	10" LF driver
Tweeter	1"compression driver Low
Directivity	H80°xV50°
Power	350W
Audio input	Dante
Working mode	Class D
Bandwidth	100M/1000M bps
SPL	120dB(continuous);126dB(peak)
Connector	Single RJ-45
Product/shipping dimensions(WxDxH)	280x395x576mm
N.W/G.W	21.5kg/23.5kg

## HH series POE speaker



### SPECIFICATIONS

Model	HH600POE
Frequency response	100Hz-19KHz
Driver	3"x6"
Directivity	H100°xV15°
Power 表现功率	180W
Audio input	Dante
Working mode	Class D
Bandwidth	100M/1000M bps
SPL	120dB(continuous);126dB(peak)
Connector	Single RJ-45
Product/shipping dimensions(WxDxH)	94.5x116.5x605mm 162x369x651mm
N.W/G.W	5.5kg/14.0kg(x2)

## SP series POE speaker



### SPECIFICATIONS

Model	SP6POE
Frequency response	70Hz-16KHz
Driver	8"x1;1.5"x1
Directivity	H100°xV100°
Power	60W
Audio input	Dante
Working mode	Class D
Bandwidth	100M/1000M bps
SPL	117dB(continuous);123dB(peak)
Connector	Single RJ-45
Product/shipping dimensions(WxDxH)	270x270x185mm 300x300x230mm
N.W/G.W	3.0kg/4.5kg



### SPECIFICATIONS

Model	SP8B POE
Frequency response (± 3dB)	50 Hz-150 Hz
Driver	1 × 8" woofer
Nominal impedance	8 ohm
Rated power	120W
Sensitivity	92dB
Max SPL	119dB
Directivity	NA
DSP	One way 5-band PEQ/mute control
Connector	RJ45
Power supply	POE + (IEEE 802.3 at)
Audio input	Dante
Bandwidth	100M / 1000Mbps
Installation diameter	287mm
Product/shipping dimensions(WxDxH)	ø 303x205mm 365x365x267mm
N.W/G.W	2.0kg/4.0kg



**SUB8 POE****SPECIFICATIONS**

Model	SUB8B POE
Frequency response ( $\pm 3\text{dB}$ )	50 Hz-150 Hz
Driver	1 x 8" woofer
Nominal impedance	8 ohm
Rated power	120W
Sensitivity	92dB
Max SPL	119dB
Directivity	NA
DSP	One way 5-band PEQ/mute control
Connector	RJ45
Power supply	POE + (IEEE 802.3 at)
Audio Input	Dante
Bandwidth	100M / 1000Mbps
Product/shipping dimensions(WxDxH)	290 x400 x 330mm
N.W/G.W	12.0kg/28kg(x2)

**MC300 POE microphone**

The MC300POE is a digital network gooseneck microphone, which can be directly connected to a Dante network. It features cardioid unidirectional, elegant appearance design and anti-shock function. Apart from its equipped gooseneck, it also can match other gooseneck microphone with XLR male output. The microphone base employs a capacitor inductive touch switch. It is capable for those high-demand radio applications with placement on plane, such as conference and distance learning.

**FEATURES**

- Support Dante network applications.
- Direct connection to audio network via Ethernet cable.
- Excellent anti-shock and anti-echo capabilities.
- DC 12V phantom power supply.
- Remote control via third party software.
- Adaptive POE power supply.
- Anti mobile, electromagnetic, high frequency interference.



SPECIFICATIONS	
Model	MC300POE
Type	Digital network gooseneck microphone
Direction	Cardioid unidirectional
Frequency response	20Hz-20KHz
Sensitivity	-37dB
Hi-pass filter	80 Hz, 18 dB/octave
Input impedance	1,4 kΩ
Max input level	-10 dBu @ +30 dB gain, -20 dBu @ +40 dB gain, -30dBu @ +50 dB gain
S/N ratio	68dB, 1kHz at 1Pa
Phantom power supply	DC 12V
Power supply	PoE, IEEE802.3af standard, power consumption 1.5W
Input terminal	Standard Ethernet Dante Network Connector RJ45
Output terminal	3-pin XLR male
Transmission speed	100 Mbps
Working temperature	0-50
Working humidity	5%-90%(25 Non condensing)
Product dimensions	120x50x150 mm
Shipping dimensions(WxDxH)	450x180x70mm
N.W/G.W	1.55kg/2.25kg

### DSP8008POE processor

DSP8008POE is a digital audio processor with Dante function. It adopts up-to-dated ADI DSP SHARC 21489 chip with the maximum operating frequency up to 450MHz. The processor has 16 channels input with 8 channels analog input and 8 channels digital input. And it has 16 channels output with 8 channels analog output and 8 channels digital Dante output. This will help the processor easily connect to the audio network system. The processor also features echo cancellation and noise suppression, independent feedback destroyer at every channel, gain share and auto mixing capability. Software is equipped to fast control of the processor itself or other connected systems. Excellent DSP processing technology guarantees reliable performance of the whole system.

### FEATURES

- Adopts up-to-dated ADI chip with the maximum operating frequency up to 450MHz
- 16 Dante channels backup , 8 channels analog input, 8 channels analog output
- Independent automatic feedback destroyer at every channel; Find out the feedback and destroy automatically.
- Auto echo cancellation (AEC) and noise suppression (ANS)
- Auto gain and mixing capability (AMC)
- Automatic gain (AGC)
- Multifunctional matrix mixing, input mixing level adjustable
- 16 groups of preset and each preset can work independently
- 8 GPIO Independent output and input for connection to other control devices. When input other control devices, all inputs can be independent ADC
- Supports channel copy from one to another, link and grouping function
- Supports RS232 center control and UDP center control, free setting for UDP COM. The control code can be checked from control software
- 2 kinds of control panel optional, both are programmable by the software





**SPECIFICATIONS**

Model	DSP8008/D5P8008POE(DANTE)	DSP1616/DSP1616POE(DANTE)
Processor	ADI SHARC 21489	ADI SHARC 21489
Sampling rate/Digitalizing bit	48K/24bit	48K/24bit
Input gain	0/10/20/30/40/43 dB	0/10/20/30/40/43 dB
Output level	0/-6 dB	0/-6 dB
Phantom power	48V	48V
Frequency response	20~20kHz, $\pm 0.2$ dB	20~20kHz, $\pm 0.2$ dB
Max. level	+22dBu	+22dBu
THD+ Noise	0.003% @4dBu	0.003% @4dBu
Dynamic range(Analog channel)	113dB	113dB
Dynamic range(Dante channel)	115dB	115dB
Background noise (A-Weighted-Analog)	-89dBu	-89dBu
Background noise (A-Weighted-Dante)	-91dBu	-91dBu
@60Hz CMRR Common mode rejection ratio	80dB	80dB
@1kHz Channel isolation	106dB	106dB
Input impedance(Balanced)	9.4K $\Omega$	9.4K $\Omega$
Output impedance (Balanced)	102 $\Omega$	102 $\Omega$
System delay	<3ms	<3ms
Power supply	AC110~240V,50Hz/60Hz	AC110~240V,50Hz/60Hz
Product/shipping dimensions(WxDxH)	482x260x45(550x330x85)mm	482x260x45(550x330x85)mm
N.W/G.W	3.0kg/4.0kg	3.0kg/4.0kg

**AD/DA4004PRO converter (DANTE)**

AD/DA4004PRO is a 4-in 4-out audio signal converter complies with DANTE protocol. Up-to-dated Dante Ultimo chip solution allows analog signal converting to digital signal, which realizes random connection to any Dante systems. Due to its high quality long distance but no delay advantages, it guarantees the most authentic sound reproduction. It also supports any digital network signal inputs and converting to analog signal, making it possible to connect to traditional analog devices such as mixers, amplifiers and processors. The AD/DA adopts high quality AD/DA signal converter chip. It provides 48V phantom power, which can connect to better quality condenser microphones.

**FEATURES**

- 4 analog audio balanced inputs or microphone inputs
- Allows microphone sensitivity adjustment
- 115dB audio dynamic range
- 4 analog line outputs
- 48KHz 24bit sampling rate
- 12V power supply

**SPECIFICATIONS**

Model	AD/DA4004PRO
THD	<0.005%
S/N ratio	>92dB(-20dBu@1KHz)
Dynamic range	>92dB(-12dBu@1KHz)
Bottom noise	<-92dBu(MIC/48V)-81dBu
Frequency response	20Hz-20KHz@ $\pm 0.3$ dB (MIC/48V:20Hz-20KHz@ $\pm 1.5$ dB)
Operation voltage	DC12V
Operation current	800mA

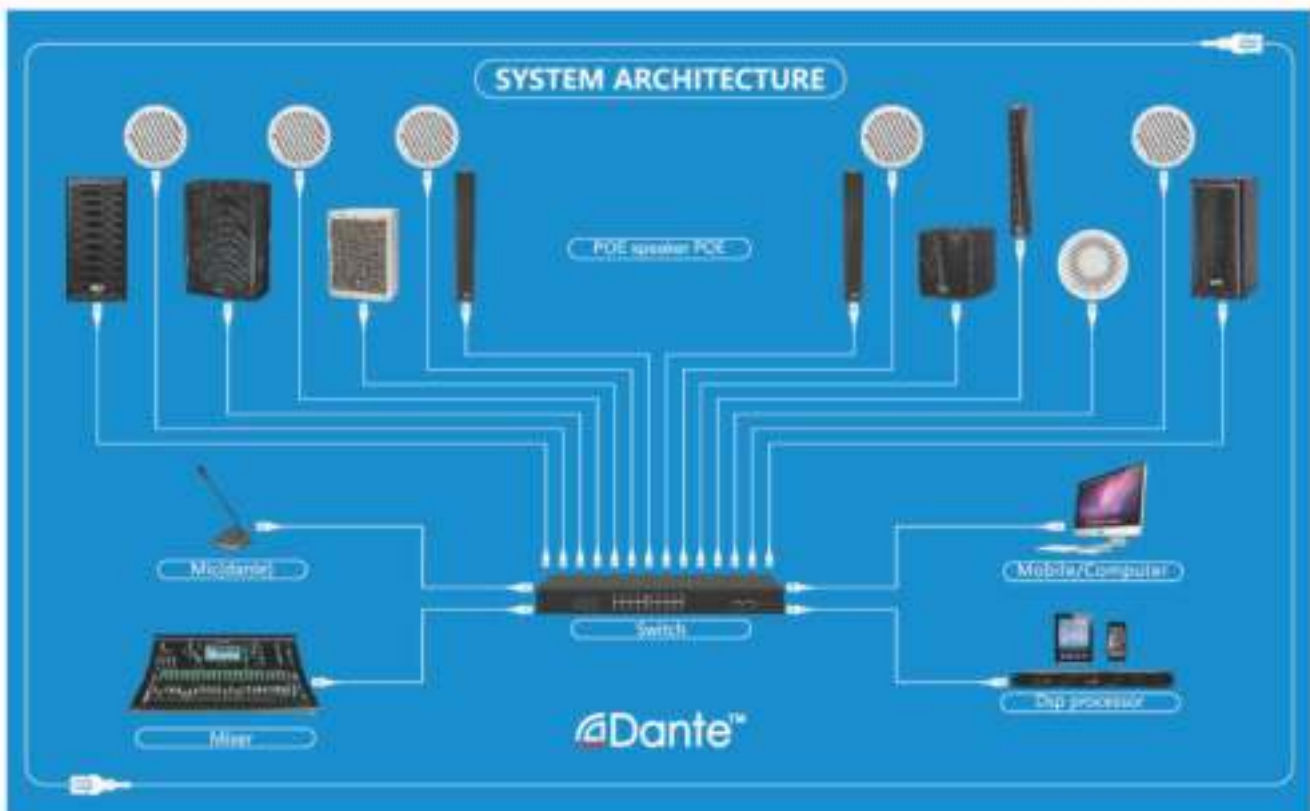
### DSP8 control panel

The DSP8 has user editing control function. It supports controls for up to 32 kinds of functions, such as gain control, mute, preset command, matrix etc. Apart from the functions of its corresponding processor, the DSP8 can also control the sound, light and electricity of the third-party equipment. Therefore it is a simple central control panel. After successful connection to a digital processor, a variety of audio control capabilities are available through the DSP8 wall panel, such as volume, mixing, scene switching, etc. It is POE power supply and UDP communication protocol is adopted.



### SPECIFICATIONS

Model	DSP8
Type	Wall panel
Display	1.31" LOLED screen
Knob	1
Network connector	1 RJ45, 100Mbps, Communication distance 100m
Power supply	PoE IEEE802.3af standard, <100mW
Dimensions(HxWxD)	85x85x35mm
Material/color	Aluminum alloy sandblasting / white
Weight	0.55kg





## PROFESSIONAL AMPLIFIER

- › Xad series professional amplifier(1U)
- › Xtd series professional amplifier(2U)
- › Apple series professional amplifier(2U)
- › Apple series professional amplifier(3U)
- › KA series 3 in 1 amplifier
- › AP series amplifier

**Biema**  
PROFESSIONAL SOUND SYSTEM  
Xtd-2300H2

**Biema**  
PROFESSIONAL SOUND SYSTEM  
Xtd-1300H4

DS9E

DS9E

FINE WORKS OF THE TIMES AND NEW COORDINATES

## Xad series professional amplifier

- Built-in powerful analog digital signal processor, lightweight but powerful output.
- Accurate DSP control for route, gain, phase, mute, PEQ, delay, crossover, compressor and limiter.
- Stable and efficient Class D power amplifier module, up to 92% working efficiency.
- High efficiency and stable R-SMPS power supply system with integrated power factor correction circuit (PFC). PFC makes DH series power amplifier have higher reliability and controllability.
- Capable of auto current waveform correction according to the AC voltage waveform. The amplifier accepts a wide range of voltage supply from AC 90v to 264v. And this makes a single standard current circuit breaker can load more power.
- Perfect protection system can effectively reduce the damage caused by improper use. It improves the reliability of the amplifier.
- Efficient anti EMF absorption system for loudspeakers.
- Unique peak clipping limiter and ripple elimination circuitry.
- Extremely light weight and compact.
- Vigorous and powerful bass, clear and pleasant to the ear medium and high frequency reproduction.
- Built-in multi-channel DSP.
- High power and high demands sound reinforcement.
- Large and medium-sized bars / cafes / lounges.
- Portable or rental PA system.

Xad-0.6k4 DSP / Xad-1.0k4 DSP  
(Amplifier with DSP)



Xad-0.6k4 / Xad-1.0k4  
(Amplifier only)



Xad-0.6k4 D / Xad-1.0k4 D  
(Amplifier with DSP & DANTE)



## SPECIFICATIONS

Model	Xad-0.6K4 / Xad-0.6K4DSP / Xad-0.6K4D	Xad-1.0K4 / Xad-1.0K4DSP / Xad-1.0K4D
8QStereo	600W x4	1000W x4
4QStereo	1050W x4	1650W x5
8QStereo	2100W x2	3300W x2
Frequency response	20Hz--20kHz ±0.5dB	
THD	≤0.05%	
IMD	≤0.15%	
S/N ratio	≥104dB	
Input sensitivity	0.775v/1v/32dB	
Input impedance ( balanced/ unbalanced)	20KΩ/10KΩ	
Slew rate	≥20v/μS	
Damping factor	≥800	
Crosstalk	≥70dB	
Product dimensions	483x228x45mm	
Shipping dimensions	530x360x100mm	
NW/GW	6.0kg/6.5kg	6.5kg/7kg



**Xtd series professional amplifier(2U)**

- High power - Xtd amplifier delivers unprecedented output power of total 13,000W(2x6500W@2ohms) in only 2U frame.
- Good sound quality - Xtd amplifier not only maintains ClassA/B favored sound quality and reliability but also with Class D efficiency.
- Regulated Switch Mode Power Supply (RSMPS) - Xtd amplifier is able to remain constant output power even with wide fluctuation of external mains voltage.
- Efficient cooling system – Unique copper cooling system allows more heat dissipation at extended peak output.
- XLR signal input and link connectors
- Comprehensive protection – Equips with protection circuitry for excessive output current, DC, over heat, very high frequency (VHF), short circuit, open load, main fuse protection and soft start.

**SPECIFICATIONS**

Model	Xtd-2300H2
Number of Channels	2
Peak total output both channels driven	13000W
Peak output voltage each channel	195Vpeak
Max. output power (each channel)	6500W / 2 ohms    4000W / 4 ohms 2300W / 8 ohms
THD from 20Hz-20kHz for 1W	<0.1%
S/N ratio	>112dB
Channel separation(Crosstalk) at 1KHz	>70dB
Frequency response(1W,8 ohms)+0/-3dB	10Hz-25kHz
Operating voltage	180-260V 50-60Hz
Minimum power-up voltage	171V
Product /shipping dimensions( WxDxH)	482 x 392 x 88(585x530x135)mm
N. W/G. W	14.0kg/15.5kg

**SPECIFICATIONS**

Model	Xtd-1300H4
Number of Channels	4
Peak total output all channels driven	10000W
Peak output voltage each channel	150Vpeak
Max. output power (each channel)	2500W / 2 ohms    2300W / 4 ohms 1300W / 8 ohms
THD from 20Hz-20kHz for 1W	<0.1%
S/N ratio	>112dB
Channel separation(Crosstalk) at 1KHz	>70dB
Frequency response(1W,8 ohms)+0/-3dB	10Hz-25kHz
Operating voltage	180-260V 50-60Hz
Minimum power-up voltage	171V
Product /shipping dimensions( WxDxH)	482 x 392 x 88(585x530x135)mm
N. W/G. W	14.0kg/15.5kg

### Apple series professional amplifier

Apple series amplifiers are a cost effective solution for demanding commercial audio applications. The amplifiers are varies from 2U to 3U. The 3U amplifiers deliver up to 1700W RMS output. The protection circuitry employed in the design ensures the integrity of the amplifiers under overload conditions. The circuit even protects the amp when a total short circuit is applied across the output terminals. The "soft start" limiter will immediately shut down the output drive in the overload or short circuit conditions, which ensure the reliability of the amplifiers. Stylish in appearance, they are perfect to be installed in those commercial applications such as pubs, nightclubs, mobile DJs, cinemas and sporting venues. The 3U amplifiers are very perfect for driving subwoofers. The sound is unprecedented rich and powerful.



### FEATURES

- Stylish design as well as rugged heavy duty construction
- Soft start limiter
- XLR jack inputs
- Binding post & 4 pin speaker connector
- Clipping & overload protect indicators
- Efficient cooling design
- Standard 19" rack mounting

### Apple (2U) SPECIFICATIONS

Model	Apple2150II	Apple2350II	Apple2550
8 ohms Output power STEREO	150W+150W	350W+350W	550W+550W
4 ohms EIA 1KHz THD<1%	220W+220W	500W+500W	800W+800W
8 ohms BRIDGE	440W	1000W	1600W
Frequency response	20Hz-20KHz ±1.5dB		
Input sensitivity	0.77V		
Maximum input level	18dBV/8.2V		
Input impedance	20K OHMS(BALANCED) 10K OHMS(UN-BALANCED)		
S/N ratio	≥95dB		
Crosstalk	> 70dB		
Damping factor (f=1kHz, 8 ohms)	>240		
Slew rate internal	15V/μs		
Protection	SHORT CIRCUIT, CURRENT LIMITED DC FAULT AC LINE FUSE, THERMAL CUT OFF, POWER UP/DOWN TRANSIENTS		
Indicators	POWER(BLUE) PROT (RED) CLIP (YELLOW) BR (GREEN) PAR (GREEN)		
Cooling	VARIABLE SPEED FAN		
Front panel controls	LEVELACH, BCH POWER SWITCH		
Rear panel controls	STEREO/BRIDGE/PARALLEL MODE SWITCH		
Connector	XLR BALANCED INPUT, PROFESSIONAL SPEAKON OUTPUT		
Power consumption	<580W	<740W	<900W
Power supply	AC230V 50Hz		
Product/shipping dimensions (WxDxH)	482×308×88(555×415×168)mm		
N.W/G.W	8.5kg / 10.5kg	9.5kg / 11.5kg	10.5kg / 12.5kg





**Apple (2U) SPECIFICATIONS**

Model	Apple2750	Apple2900	Apple21100
Output power STEREO	8 ohms 2x750W	8 ohms 2x900W	8 ohms 2x1100W
EIA 1KHz THDs1%	4 ohms 2x1400W	4 ohms 2x1750W	4 ohms 2x1900W
Bridge	8 ohms 2800W	8 ohms 3500W	8 ohms 3800W
Output connector	SPEAKON & BINDING POST		
Frequency response	20Hz-20kHz, ±1.5dB		
Input sensitivity	0.77V		
Input impedance	20kΩ(BALANCED) ,10kΩ(UN-BALANCED)		
S/N ratio	≥100dB		
Distortion	≤0.05%		
Crosstalk at rated output power	1KHz >65 dB		
8 ohm 1KHz			
Damping factor=1KHz 8 OHMS	>230		
Slew rate internal	15V/μS		
Protection	Soft Start,Short Circuit,Limiter,DC Fault,AC Line Fuse,Thermal Cut		
Cooling	Two steps speed fan		
Power supply	AC:220-230V 50Hz/60Hz		
Product/shipping dimensions (WXDXH)	482x368x88(555x475x168)mm		
N, W/G, W	14.1kg/16.3kg	16.3kg/18.5kg	18.1kg/20.3kg



**Apple (3U) SPECIFICATIONS**

Model	Apple31300	Apple31500	Apple31700
Output power STEREO	8 ohms 2x1300W	8 ohms 2x1500W	8 ohms 2x1700W
EIA 1KHz THDs1%	4 ohms 1800W	4 ohms 2100W	4 ohms 2400W
BRIDGE	8 ohms 3600W	8 ohms 4200W	8 ohms 4800W
Frequency response	10Hz-50KHz -1.5dB	10Hz-50KHz -1.5dB	10Hz-50KHz -1.5dB
Input sensitivity	0.77V/1V/1.4V	0.77V/1V/1.4V	0.77V/1V/1.4V
Maximum input level	21dBV/9V	21dBV/9V	21dBV/9V
Input impedance	20K ohm	20K ohm	20K ohm
S/N ratio	>100dB	>100dB	>100dB
Crosstalk	> 70dB	> 70dB	> 70dB
Damping factor f=1kHz 8 ohms	>200	>200	>200
Slew rate internal	40V/μs	40V/μs	40V/μs
Protection	SHORT CIRCUIT,LIMITER,OVER CURRENT,SOFT START,OVER HEAT		
Indicators	POWER(BLUE) PROT(YELLOW) CLIP(RED) BR(GREEN) PAR(GREEN)		
Cooling	SMART FAN		
Front panel controls	LEVELACH, BCH POWER SWITCH		
Rear panel controls	STEREO/BRIDGE/PARALLEL MODE SWITCH		
Connector	XLR BALANCED INPUT, 6.35MM BALANCED INPUT,PROFESSIONAL SPEAKON OUTPUT,PROFESSIONAL BINDING POSTS OUTPUT		
Power supply	AC 220V-240V/50Hz		
Product/shipping dimensions(WXDXH)	482x450x132(585x560x185)mm		
N, W/G, W	31.1kg /33.1kg	33.0kg /35.0kg	35.0kg /37.0kg

## KA series intelligent 3 in 1 amplifier

- Touch screen display, Chinese and English languages selectable; User can directly operate the menu on the touch screen, simple and convenient.
- Intelligent product with built-in wireless microphone (optional), power amplifier and professional karaoke effect processor.
- Dual karaoke chips make the audio frequency out of sync during peak shift. It effectively prevents the problems such as howling noise. It ensures sound reproduction deep, full and closer to natural voice.
- Music, microphone, effect boot volume setting and maximum volume locking function; one key to recover to factory default settings.
- High quality circuit board employs micro control technology. Its service life is longer than ordinary ones.
- The power amplifier supports MP3 playback. You can download your favorite songs in advance and listen to them at any time.
- Eight built-in scene modes optional
- ARC audio signal return function
- Software control by USB interface
- High fidelity and high dynamic power amplifier, super stability and big power.



## SPECIFICATIONS

Model		KA250	KA450	KA750	KA950
Output power STEREO	8Ω	250Wx2	450Wx2	750Wx2	950Wx2
EIA 1KHz THD±1%	4Ω	380Wx2	680Wx2	1050Wx2	1350Wx2
Output connections		Binding post			
Frequency response		20Hz-30kHz, ±1.5dB			
Input sensitivity		0.5V			
Input Impedance		10kΩ/un-Balanced			
S/N ratio		≥95dB			
THD		≤0.2%			
Crosstalk @ Rated Output/8Ω/1kHz		>70 dB			
Damping Factor/8Ω/1kHz		>240			
Slew rate		15V/μS			
Protection		Soft Start, Short Circuit, Limiter, DC Fault, AC Line Fuse, Thermal Cut			
Cooling system		Fan			
Mains power supply		AC:220-230V 50Hz			
Product/shipping dimensions(WXDxH)		433x295x110mm 500x385x240mm			
N.W/G.W		9.0kg/10.0kg	11.2kg/11.2kg	11.5kg/12.5kg	12.9kg/13.9kg



**AP series karaoke amplifier**

- Intelligent dual effect chip karaoke power amplifier.
- High-class LCD display, clear and simple control program menu.
- The latest digital frequency shift function effectively suppresses howling.
- The latest 48bit dual reverberation superposition effect processing circuit, easy and natural singing, more space sense.
- Parameter will be automatically stored if power off the amplifier and the parameter will be recalled automatically after power on again.
- Engineering lock with free password setting.
- Bluetooth and MP3 playback available.
- 5-way microphone inputs with microphone volume limiter, front 3, rear 2.

**SPECIFICATIONS**

Model	AP1500	AP2500
Frequency response	20Hz-20 KHz	20Hz-20 KHz
THD	≤ 0.03%	≤ 0.03%
Input sensitivity microphone	9mv	9mv
Input sensitivity Music	9mv	9mv
Microphone input impedance	600 Ω	600 Ω
Output power @each channel	150W + 150W (main channel) (8 Ω, EIAJ)	2500W + 200W (main channel) (8 Ω, EIAJ)
Product/shipping dimensions(WXDxH)	430x400x140(490x440x220)mm	430x400x140(490x440x220)mm
N.W/G.W	12.5kg/14.3kg	13.5kg/15.3kg

**Biema**  
PROFESSIONAL SOUND SYSTEM

## PROFESSIONAL MIXER

- › Audiconfluen MX series mixer
- › Digital mixer

FINE WORKS OF THE TIMES AND NEW COORDINATES



**AUDICONFLUEN MX series mixer**

- 99 effects for choosing.
- Two busses, one AUX, +48V phantom power.
- With function of MP3/USB/REC/BLUETOOTH/RECORD.
- 48V phantom power at every channel.
- EQ with frequency sweep function at every channel.
- Low cut available at every channel.
- Dual 7-band EQ at main output.
- DSP effects fine-tune available.



**MX SPECIFICATIONS**

Model	MX04T
S/N ration	>93dB
Frequency response	20Hz-20KHz
Low cut	No
Mono channel EQ	2 bands(Hi,Low)
TAPE/MP3 EQ	2 bands(Hi,Low)
Main output EQ	No
Effects	Analog effects
Power cable Length	2200mm
Channel No.	2 mono 1 Bluetooth/MP3 1 stereo
Product dimensions	230x235x50mm
Shipping dimensions	326x275x74mm
N.W/G.W	2.3kg/2.8kg



**SPECIFICATIONS**

	MX08T	MX14T
Model	MX08T	MX14T
S/N ration	>93dB	>93dB
Frequency response	20Hz-20KHz	20Hz-20KHz
Low cut	75 Hz low cut at every mono channel	75 Hz low cut at every mono channel
Mono channel EQ	4 bands(Hi, Mid-Hi, Mid-Low, Low)	4 bands(Hi, Mid-Hi, Mid-Low, Low)
TAPE/MP3 EQ	2 bands(Hi, Low)	2 bands(Hi, Low)
Main output EQ	Dual 7-band EQ	Dual 7-band EQ
Effects	24BIT digital effects	24BIT digital effects
Channel no.	6 mono, 1 TAPE/MP3/Bluetooth	12 mono, 1 TAPE/MP3/Bluetooth
Product dimensions	355x465x130mm	535x465x130mm
Shipping dimensions	410x535x180mm	580x535x180mm
N.W/G.W	5.7kg/7.2kg	8.5kg/10.0kg

### MD-18 digital mixer

- 18 channels input, including 12 channels of MIC / line with full digital control gain analog pre-processing (XLR female and 1/4" TRS combo), 1 channel of stereo input, 1 channel of digital AES / EBU stereo input, 1 channel of USB input.
- 12 channels output, including 6 channels of aux outputs, 1 channel of stereo main L / R, (all XLR male connectors to prevent single side short circuited), 1 channel of digital AES / EBU stereo output, 1 channel of USB stereo recording and 1 channel of stereo monitoring.
- All mic / line input channels adopt professional high-quality mic amplifier. High dynamic, low distortion and full CNC 64 level analog gain can easily meet your requirements and achieve good signal matching.
- Two professional DSP effectors (FX) and six effect types: chorus, echo, flange, pitch shift, reverb and stereo delay are configured, with a total of more than 100 effect presets.
- 6 DCA volume groups and 3 mute groups, easy to operate just by one button
- USB player accepts MP3, AAC, WAV, AIFF, APE or FLAC files. U driver can make recording directly, no need external computer. USB/Bluetooth functions, direct plug and play anytime at anywhere.
- This console provides wireless WiFi hotspots. IOS devices, such as Apple iPad, etc.. It allows connection to the console wirelessly for remote control operation. App software operates all mixer functions. The console equips a WiFi adapter to connect the console to the handheld device without any other external network hardware or displays.





SPECIFICATIONS	
Model	MD-18
Display	6.1" x 3.5" (156mm x 90mm) color TFT touch screen
Audio inputs	18 input channels
Audio outputs	12 mic / line inputs (XLR / TRS combo), 2 stereo AES input (XLR), 1 stereo USB or Bluetooth input; 14 output channels; 2 main outputs (XLR); 2 AUX outputs AUX1, aux2 (1 / 4" TRS); 4 AUX outputs SUB1-sub4 (XLR); 1 stereo AES output (XLR); 1 stereo USB recording; 1 stereo monitor (1 / 4" TRS, 16 Ω minimum impedance headphone);
Input channel processing	4-band Parametric EQ with Hi/Low Shelving option, variable 24 dB/octave HPF and LPF, noise gate and compressor
Output channel processing	1/3 octave GEQ, Variable High- and Low-Pass Filters, 4-band Parametric EQ, limiter and delay
Recording	Stereo dual channels recording with signal source from any of Main L/R & AUX1-2, SUB1-SUB4 outputs
Groups	6 DCA (with mute), 3 mute groups
Effects	2 professional effects engines including Reverb, Echo, Delay, Chorus, Pitch Shift, Flanger, Stereo, Delay 60 Factory Presets, 50 User Presets, 1 Pitch Correct (assignable to any mono input channel)
Presets	Mixer presets: Factory and user presets include all mixer parameters can be stored or uploaded to the mixer from internal memory or USB. Channel presets: User channel presets can be stored or uploaded to the mixer from the internal memory or USB.
External control	Ipad digital console control App for IOS controls all mixer functions via Wi-Fi.
Wi-Fi	USB Wi-Fi adaptor (included)
Bluetooth	USB Bluetooth adaptor (included)
Power supply	100Vac-240Vac, 50 - 60 Hz
Sampling frequency	48kHz
Delay	<1.6ms, from any input to output
THD	0.005%, +4 DBU, 20 Hz - 20 kHz, 0 gain compensation or attenuation, from any input to output
Frequency response	20 Hz - 20 kHz +/-0.5 dB, from any input to output
Dynamics	105dB
Equivalent input noise	-128dBu
Residual output noise	-86dBu
Crosstalk	-80dB
S/N ratio	-94dB
Max input level	+16dB(mic), +22dB(line)
Phantom power	48 v, each channel individually switchable
Included accessories	USB Wi-Fi adapter, USB Bluetooth adapter, power cable
Product dimensions	89 mm x 360 mm x 297 mm
Weight	2.98 kg

## PERIPHERAL EQUIPMENT

- › DSP processor
- › FEQ series equalizer
- › CAE series power processor/sequence controller

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DSP

Biema



### DSP2401III DIGITAL EFFECTS PROCESSOR

DSP2401III is a professional digital effects processor. It is a standard 19 inch 1 U chassis. The user interface is very user friendly. The encoders on the front panel are helpful and very easy to operate. One is for parameter editing and the other three are for input, output and mix level control.

DSP2401III has a 2x20 digits LCD display for easy access and set up. There is LED indication on CLIP, MUTE and TAP TIME as well. This digital effects processor can be connected to computer via MIDI or USB for external control. In addition, there is a switch on the rear panel to switch bypass. Tap delay can be set through the corresponding button on the front panel.

DSP2401III perfectly performs 16 kinds of audio effects. All can be edited by the user.



SPECIFICATIONS	
Model	DSP2401III
Input	1/4" TS unbalanced
Input impedance	Around 30 kohm
Max input level	+15 dBu
Output	1/4" TRS balanced
Output impedance	Around 150 ohm
Max output level	+21 dBu
Effect/bypass switch	1/4" TS line jack female connector
Audio input connector	2 x5p standard connector
USB	Standard USB connector, type A
Processing precision	Excellent sonic performance with 24 x 32 bit
Converter	24bit Delta-Sigma converter
Sampling rate	128 over sampling 48kHz sample rate
Frequency response	10 Hz to 22 kHz, -3 dB
Dynamic range	103 dB, 10 Hz to 22 kHz A-Weighted
Distortion	0,01 % typ. @ 0 dBFS
Crosstalk	-75 dB @ 1 kHz
S/N ratio	10 Hz to 22 kHz >100 dB @ 0 dBu, A-weighted
Main connector	IEC C-13 Cable
Power supply	230 V, 50 Hz
Power consumption	approx. 15 W
Product/shipping dimensions	483x44x229(540x245x105)mm
N W/G.W	3.5kg/4.0kg

**DSP2405 DIGITAL FEEDBACK DESTROYER**

The DSP2405 is a self-adaptive feedback destroyer that can convert from "FAST" or "ACCURATE" modes. The FAST mode is good for mobile microphones which always speak from one position to another, such as multiple microphones switches speaking in a meeting room. The ACCURATE mode is good for microphones always speak in the same position, such as microphones speak at a fixed platform. DSP2405 feedback destroyer can restrain itself with very slow speed so as to destroy more unwanted feedback. What's more, it can gain up to 12dB before feedback. The gain depends on the acoustic environment and the selected mode.

The two-way microphone inputs of the feedback destroyer have built-in auto mixing. Under many circumstances, such as speaking at a lectern, platform or a conference table, the two microphones can better capture the voice of the moving speakers. However, this will increase the risk of acoustic feedback. In order to solve this problem, the auto mixing will auto decrease the gain of the microphone with weak signal and increase the gain of the other microphone with strong signal. In this case, it is tacking with the speaker and producing the clearest sound reproduction. In the meanwhile, the maximum gain allowance without acoustic feedback is maintained because of its constant total gain. The auto mixing is still functioning even feedback destroyer is stopped working.

**FEATURES**

- "FAST" and "ACCURATE" modes available.
- The FAST mode is good for mobile microphones which always speak from one position to another, such as multiple microphones switches speaking in a meeting room.
- The ACCURATE mode is good for microphones always speak in the same position, such as microphones speak at a fixed platform.
- The feedback destroyer can restrain itself with very slow speed so as to destroy more unwanted feedback.
- Up to 12dB gain before feedback depends on the acoustic environment and the selected mode.

**SPECIFICATIONS**

Model	DSP2405
Rated voltage	220V±10% 50Hz
Power consumption	7W
Sampling rate	32KHz
Frequency response	125Hz-15KHz(VOCAL) 20Hz-15KHz(MUSIC)
Distortion	<0.1%@1KHz
Signal/noise ratio	>90dB
Signal delay	7ms(MUSIC) 11ms(VOCAL)
Input impedance	20KΩ
Output impedance (balanced)	200Ω
Working temperature	-10~55°C
Product dimensions(WxDxD)	482x250x44mm
Shipping dimensions(WxDxD)	550x330x85mm
N.W/G.W	2.5kg/3.0kg



## DSP2407 CROSSOVER

- 96KHz sampling frequency.
- 2 inputs 4 outputs and flexible operation modes.
- One or multiple crossover settings at each input and output; 20Hz-20KHz crossover frequency points at both HP and LP.
- Flexible USB connector for convenient PC control.
- High performance 24 bit A/D converter with current highest speed 32 bit Float Point Unit.
- Multiple user programs can be stored at the device or the PC software.
- Extremely simple and intuitive operation just by keys and encoders on the front panel or connect to PC software.
- Easy matrix router setting, the router direction can be set up arbitrarily.
- SMP power supply and stable performance.
- 7 band PEQ at every input channel and 6 band PEQ at every output channel; Lo-shelf & Hi-shelf at every output channel.
- Delay, phase and mute setting at every input and output channel.
- Free output channels selection, either A, B or A+B signal output.
- Independent copy function at input and output channels.



## SPECIFICATIONS

Model	DSP2407
Input channel and connector	2 way female XLR
Output channel and connector	4-way of male XLR
Input impedance	20KΩ Balance:20KΩ
Output impedance	100Ω Balance:100KΩ
PC connector	USB
Common-mode rejection ratio	>78dB(1KHz)
Input range	s+22dBu
Frequency response	20Hz-20KHz(-0.5dB)
S/N ratio	≥100dB @ 1KHz 0dBu
Distortion	<0.002% OUTPUT=0dBu/1KHz
Channel crosstalk	>88dB(1KHz)
Input channel function	
Input mute	Independent mute control at every channel
Input volume	-40dB--+12dB, step distance 0.1dB
Input delay	Delay control at every input channel, adjustment range 0-1000ms□step distance 0.1dB
Input phase	In-phase(+)or out of phase phase(-)
Output channel function	
Output mute	Independent mute control at every channel
Output gain	Adjustable range -40dB--+12dB,step distance 0.1dB
Output phase	In-phase(+)or out of phase(-)
Processor	96 KHz sampling rate, 32-bit DSP processor, 24-bit A/D and D/A converter.
Display	2x20 LCD display, 5-band LED accurate input/output level meter
Power consumption	≤25W
Power supply	AC 90-245V 50/60Hz
Product dimensions(WxDxH)	482×265×45mm
Shipping dimensions(WxDxH)	522×370×72mm
N.W/G.W	4.0kg/4.5kg

**DSP4801 II DSP4805 II SPEAKER MANAGEMENT**

- 96KHz Sampling rate, 24-bit DSP processor and 32-bit A/D and D/A converter.
- Flexible crossover modes with high and low pass from 20 Hz~20KHz.
- USB and RS 485 connector for PC control. Max 250 units can be inter-linked to computer through RS 485 from less than 1500m away.
- Very convenient, direct and easy programming. Directly use the function keys and jog wheel on the front panel or control by PC software after successfully linking to computer.
- 30 kinds of user memories.
- Lock function by setting password to prevent interruption during operation, just by clicking the key of "system" on the front panel.
- 6-band independent  $\pm 20$  dB gain adjustment at each input and output; LO-shelf and Hi- shelf optional at each output channel.
- 2x24 LCD backlight display; 8 band LED accurate input/output level Meter; mute and editing mode.
- Delay, phase control and Mute setting at each output/input channel, delay up to 1000ms and three delay units available to choose, ms, m and ft.
- Control gain, enhance and input channel signal selection at each output channel. And all parameters at the selected output channels available to be adjusted simultaneously.
- It can connect to central systems through USB or RS485 to control the sound matrix or channel mute.
- It can be lock according to its function, realizing data privacy.
- Noise gate and 2-band dynamic equalizer are available at each output channels.
- It can connect to PC for detail control by USB, WIFI, RS485 and TCP/IP.

**SPECIFICATIONS**

	Model	DSP4801 II
Input channel and jack		2-way of Female XLR
Output channel and jack		6-way of Male XLR
Input impedance		Balance: 20K ohm
Output impedance		Balance: 100 ohm
PC interface		One USB interface on front panel, Two RS485 interface on back panel(RJ-45)
Common-mode rejection ratio		>70dB(1KHz)
Frequency response		20Hz-20KHz(-0.5dB)
SNR		>110dB
THD		<0.01% OUTPUT=0dBu/1KHz
Channel crosstalk		>80dB(1KHz)
Input gain		-60dB~+12dB gain adjustment at each input channel.
Output gain		Adjustable range:-60dB~+12dB, step distance 0.1dB
Processor		96KHz Sampling rate, 24-bit DSP processor and 32-bit A/D and D/A converter.
Display		2x24 LCD blue backlight display; 8 band LED accurate input/output level meter; mute and editing status
Power consumption		$\leq 25$ W
Power supply		AC 115V/230V 50Hz/60Hz
Product/ shipping dimensions(WxDxH)		482x232x44(510x290x120)mm
N.W/G.W		3.5kg/4.0kg





SPECIFICATIONS	
Model	DSP4805 II
Input channel and jack	4-way of Female XLR
Output channel and jack	8-way of Male XLR
Input impedance	Balance: 20K ohm
Output impedance	Balance: 100 ohm
PC interface	One USB interface on front panel, back panel(RJ-45)
Common-mode rejection ratio	>70dB(1KHz)
Frequency response	20Hz-20KHz(-0.5dB)
SNR	>110dB
THD	<0.01% OUTPUT=0dBu/1KHz
Channel crosstalk	>80dB(1KHz)
Input gain	-60dB→+12dB gain adjustment at each input channel.
Output gain	Adjustable range:-60dB→+12dB, step distance 0.1dB
Processor	96KHz Sampling rate, 24-bit DSP processor and 32-bit A/D and D/A converter.
Display	2x24 LCD blue backlight display; 8 band LED accurate input/output level meter; mute and editing status
Power consumption	≤25W
Power supply	AC 115V/230V 50Hz/60Hz
Product/ shipping dimensions(WxDxH)	482x232x44(510x290x120)mm
N.W/G.W (kg)	3.5kg/4.0kg

### FEQ series equalizer

- Absolute supplement suitable for applications in stadium and in hall.
- Perfect circuit design for room equalizing and feedback display.
- Selective ±6dB or ±12dB for boost or decay.
- Additional HPF to restrain low frequency noise, for example, feet kicking sound, air-conditioning sound, etc.
- Constant Q value;high accurate potentiometer controlling.
- Lower noise and better sound.



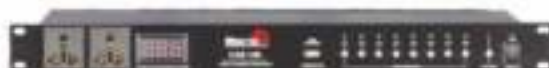
SPECIFICATIONS	
Model	FEQ3102II
Frequency response	20Hz-20KHz ±1.0dB
THD%	<0.05%(20Hz-20KHz +3dB)
S/N ratio	>90dB
Equalizer control	31band(2/3 octave)
Central frequency	20, 25, 31.5, 40, 50, 63, 80, 100, 125, 160, 200, 250, 315, 400, 500, 630, 800, 1K, 1.25K, 1.6K, 2K, 2.5K ,3.15K, 4K, 5K, 6.3K, 8K, 10K, 12.5K, 16K, 20KHz
Variable range	±12dB/±6dB
Peak LED	-3dB before clipping
Filter	-12dB/octave(80Hz)
Power supply	115V/50-60Hz 230V/50-60Hz
Power consumption	15W
Product/shipping dimensions(WxDxH)	482x225x132(512x280x160)mm
N.W/G.W	5.3kg/6.2kg

**CAE series power processor**

Biema CAE-108 is a compact and enforced power processor. It has 8/16 power outputs, with each power output up to 30A. It can work with all kinds of electrical equipment effectively to meet the different kinds of connection and control requirements for all sound system. At the meanwhile, it reduces electrical impact to all connected equipment from the power network and ensures the entire power system to work steadily.

**FEATURES**

- All buttons require long press to active, which can avoid incorrect operation by careless or unwanted touch by accidents.
- Link function is available. Link the power processor to another just by a 6.35 plug.
- Auto memory function helps the power processor recover from last working status after turning on the device again.
- The LCD on the front panel displays the current working voltage.

**SPECIFICATIONS**

Model	CAE-108 (1U)
Channel number	8
Loading per channel	220V/30A
Sequency time per step	1SEC
Control	SEQUENCY ON/OFF-LOCK SWITCH BYPASS/NORMAL-BUTTON
Power	220V/50Hz-60Hz STANDARD 3-WIRE, GROUNDED WIRE IS NEEDED
Product/ shipping dimensions(WxDxH)	482x225x44(510x290x120)mm
N.W/G.W (kg)	4.5kg/5.5kg

**SPECIFICATIONS**

Model	CAE-1016 (2U)
Channel number	16
Loading per channel	220V/30A
Sequency time per step	1SEC
Control	SEQUENCY ON/OFF-LOCK SWITCH BYPASS/NORMAL-BUTTON
Power	220V/50Hz-60Hz STANDARD 3-WIRE, GROUNDED WIRE IS NEEDED
Product/ shipping dimensions(WxDxH)	482x225x88(510x290x164)mm
N.W/G.W (kg)	7.0kg/8.0kg



## PROFESSIONAL MICROPHONE

- › UHF series wireless microphone (True diversity)
- › BM series antenna splitter
- › BF digital conference mixer
- › MC series professional conference system
- › WM series professional conference system

FIVE WORKS OF THE TIMES AND NEW COORDINATES

**UHF series wireless microphone**

- Automatic frequency scan.
- The receiver employs a EIA international standard 1 U 19" cabinet. It can be installed into a standard equipment rack with its equipped nylon ears.
- If connects to an antenna distribution system, the microphones can achieve longer receiving distance and more stable performance. Ideal working distance can be up to 300m.
- VA LCD screen fully displays channels, frequency, RF signal status, AF audio output status, scan status etc.
- Worldwide certified 12V/1A power supply.
- UHF PLL synthesized oscillation mode and 25MHz channel interval.
- Four antenna with auto frequency selection, dual mute and voice code locking loop circuitry ensures stable performance even working in long distance.
- The built in SQ circuitry avoids interference noise output without decreasing the Q value or sensitivity under disturbing environment.
- Customized frequency range setting.

**SPECIFICATIONS**

Model	UHF68	UHF268
Frequency range	UHF 640-690MHz	
Modulation mode	PLL	
Bandwidth	50 MHz	
Channel	200 Channels interval 25 KHz	
Stability	±0.0005%	
Dynamic range	100dB	
Max deviation	±80 KHz	
Frequency response	20Hz-20 KHz ±3dB	
S/N ratio	>85dB	
Distortion	<0.5%	
Working temperature	-10°C~ 60°C	
T.H.D	<0.5% (at 10KHz Deviation)	
Power supply	DC 12V~500MA	
Audio output	Balanced & unbalanced	
LCD display	Frequency, RF input level, AF level, Muting RF level and wireless channel no.	
Receiver specifications		
True-diversity receiving mode	PLL synthesized oscillation mode	
Inter frequency	First 110MHZ, second; 10.7MHz	
Antenna type	BNC type/50 ohms	
Sensitivity	12 dBμV (80dB SIN)	
Sensitivity range	12-32 dBμV	
Spurious emission	≥75dB	
Max audio output	+10 dBV	





SPECIFICATIONS	
Model	SM1
Type	handheld microphone
RF output	LO: 10 mW (meet CE/FCC regular)
Spurious emission	-60dB
Operation battery	AA x 2
LCD display	Channel and battery status
Model	SM2
Type	Tie-clip
Polar pattern	Omnidirectional
Model	SM3
Type	Headworn
Polar pattern	Unidirectional
Model	SM4
Type	body pack
Display	Battery status/channel display
Output power	10mW High 50mW; Low 10mW.
Power supply	2* AA batteries.
Battery lifetime	> 6 hours at 30 MW and >10 hours at 3 MW
Frequency range	640-690MHz.
Spurious suppression	-60dB

## UHF wireless microphone

- Intelligent true U-Band wireless microphone, long receiving distance, stable signal but no noise.
- Multiple groups of frequencies optional, hifi sound quality.
- Metal body with microphone cap cover, large capacity battery, dual core chip.
- Automatic frequency sync, intelligent compatibility.
- Mini receiver, easy to use in various places, easy to carry and simple operation.



SPECIFICATIONS			
Model	UHF101	UHF102	UHF103
Type	handheld microphone	Tie-clip	Headworn
Transmitter carrier frequency	500-800MHz	500-800MHz	500-800MHz
Transmitter output power	10mW	10mW	10mW
Working distance	Open air 30-50m	Open air 30-50m	Open air 30-50m
Frequency stability	± 0.005%	± 0.005%	± 0.005%
S/N ratio	>100dB	>100dB	>100dB
Max output level	130dB	130dB	130dB

**BM1000A antenna splitter**

BM1000A is an antenna splitter. It provides 2x4 antenna inputs for multi-channel systems of various automatic diversity receivers. It shares only one pair of antenna, not only longer the receiving distance and improve the system performance but also simplify the whole wireless system.

BM1000A employs big dynamic but low signal to noise module and auto feedback steady flow bias circuitry. It features ultra-low internal distortion and elimination of mixing interference while multiple channels working simultaneously. Its output gain is about 1dB. The BM1000A is equipped with a 12V/2A power supply, which can split the power to 4 receivers.

**SPECIFICATIONS**

Model	BM1000A
Frequency range	640-960MHz
Antenna distribution	2x4 outputs
RF output gain	+1.0dB(frequency center)
Input out	32M
Frequency selection	Low $\geq$ 35dB, Hi $\geq$ 30dB
Input/ output impedance	50 ohm
Antenna input power supply	8.3-9.8V DC 230mA MAX to the Antenna
Antenna output connector	BNC
Power supply	12V DC /2A
Product /shipping dimensions( WxDxH)	482x180x44(530x325x150)mm
N.W/G.W	1.5kg/2.8kg

**BM1000B Directional antenna**

- Black copper plate
- Temperature resisting
- Anti shock, waterproof and protective capability
- Adopts broadband technology
- Medium gain and low standing wave

**SPECIFICATIONS**

Model	BM1000B
Operating frequency	All frequencies between 640 to 960MHz
Gain	6 dB typical
Impedance	50 ohm
Directivity	Ellipse 90° typical
Antenna polarization	Vertical
Max power	50 W
Terminal	BNC female
Dimensions	442x205x75mm
Weight	0.9kg



### BM1000C antenna booster

- The BM1000C is suited for 620-960MHz RF signal amplification. It provides up to 16dB gain to make up for signal loss because of long distance. It also increase the receiving distance and transmitting stability.
- The BM1000C can power up a subsidiary antenna booster, making it possible for a more complex external antenna distribution system operates in an independent and effective way.
- The aluminum body features outstanding cooling and waterproof capability.
- The BM1000C can consistently offer constant DC 9.8V output.
- The BM1000C antenna booster is equipped with a power LED and built-in short circuit protection.



#### SPECIFICATIONS

Model	BM1000C
Gain	3 dB / 10 dB
Noise	6 dB Typical at 0 dB
Terminal	BNC female
Power supply	9.8-10 V DC 20 mA
Operation temperature	-20—+60 ℃
Material	Aluminum extrusions with oxidation coating
Dimensions	Cylinder Length 65 mm
Weight	58g

### BM500 omni-directional antenna

BM500 omni-directional antenna is an ideal antenna system in terms of maximum signal stability. It features larger transmission range, improving stability and anti-interference capability. Therefore, in any system installation, especially in the complex radio frequency environment such as wireless microphone and wireless monitoring system, polarized antenna can greatly improve the stability of the signal but reduce the interference and signal degradation caused by polarization problems. The gain can reach 8dBi. The BM500 polarized antenna can be horizontally installed on the ceiling, or vertically installed on the bracket or wall.



#### SPECIFICATIONS

Model	BM500
Frequency range	600—800 MHz
Polarization	±45°
Gain	2×8dBi
Sensitivity	<-90dBm
half-power beam width	H:76±5° V:76±5°
Front-to-back ratio	≥23dB
Input Impedance	50Ω
VSWR	≤2.0
Cross-polar ratio	≥15dB@0° ≥10dB@±60°
Sidelobe suppression for first sidelobe above horizon	15 dB
Dimensions	L / W / D 284X284X120
Maximum input power	200W
Lightning protection	DC Ground 0C接地

**UHF160 ear monitor**

- Wireless inner ear monitoring system for stage performance and audio broadcasting.
- EIA standard 1U 9.5" metal cabinet.
- UHF frequency band, diversity anti-interference capability.
- 16MHz bandwidth and 32 preset frequencies switchable.
- Stereo and mono optional
- Bright OLED display.
- Stable PLL synthesized circuit, with "noise detection" mute control function, effectively block the noisy RF interference.

**SPECIFICATIONS**

Cabinet	EIA standard 1U 9.5"
Channel number	Mono
Stability	±0.005%, PLL synthesized
Carrier frequency	UHF 522 – 936MHz
Modulation	FM stereo
Output power	10mW – 100mW
Working distance	80m (open air area)
Oscillation	PLL synthesized
Harmonic emission	<-80dBm
Max. deviation	±68KHz
Bandwidth	16MHz
S/N ratio	>105dB
THD	<0.4% @ 1KHz
Frequency response	80Hz–16KHz ± 3dB
Audio input	Line level X 2, XLR 6.3mm combo
Audio output	6.3mm unbalanced X 2
Product dimensions	210(W)X43(H)X206(D)
Weight	2.5kg

**SPECIFICATIONS**

Channel number	Mono
Stability	±0.005% ,PLL synthesized
Carrier frequency	UHF 522 – 936MHz
Modulation	FM stereo
Working distance	80m (open air area)
Oscillation	PLL synthesized
Sensitivity	>60dB@Max deviation= 25KHz input 6dBuV
Bandwidth	16MHz
Max. deviation	±68KHz
S/N ratio	>105dB
T.H.D	<0.4% @ 1KHz
Frequency response	80Hz–16KHz ± 3dB
Crosstalk	≥45dB, @ 1KHz
Output connector	φ3.5mm stereo earphone plug
Output power	2 X 150mW@ 1KHz(THD3%)
Battery	AA X 2
Power consumption	185mA( typical)
Battery life	About 7 hours
Product dimensions	108X 66 X 22
Weight	190g



### BF1000 8 channel digital conference mixer

- Each microphone can be named independently. Microphone working status are visible.
- The mixer can connect to 8pcs of microphones, with each independent control of volume, priority, speaking time, sensitivity and phantom power.
- The system speaking modes include first-in-first-out, restricted mode, priority mode etc.
- The speaker number can be set from 1 to 8, meeting many kinds of demand at specified venues.
- Disable mode, normally-on mode and normal voice control mode can be set at each microphone channel independently.
- System can be updated or parameter fine turning through direct connection from the USB terminal.
- Auto microphone ON or OFF time can be set at each microphone channel independently. Up to 999 seconds can meet many kinds of application demands.
- Microphone status change has sending code function. It can open and close freely by the software. And code terminal is available for customization.
- The System has a perfect self-checking function. General errors can be determined right away.
- 4 groups of RCA input and 2 to 2 independent volume adjustment.
- 8 balance input connectors accept microphone or line signals.
- Perfect signal to Noise ratio and excellent sound reproduction.
- 2.23 inch LCD screen displays all the parameters.



### SPECIFICATIONS

Model	BF1000
Input power	220V(±10%)
Power	<50W
Single microphone phantom power (output)	48V(±1V)
S/N ratio	>75dB
Distortion	<0.5%
Channel crosstalk	>95dB
Single microphone frequency response	70Hz--18kHz
Single microphone input impedance	1K Ohm
Voice control sensitivity	-47dB--0dB 48 levels adjustable,0 for OFF,decay>95dB
Single microphone volume	-47dB --0dB 48 levels adjustable,0 for OFF,decay>95dB
Master volume output	-47dB --0dB 48 levels adjustable,0 for OFF,decay>95dB
Master volume input	-47dB --0dB 48 levels adjustable,0 for OFF,decay>95dB
Balance output impedance	1K ohm
Unbalance output impedance	1K ohm
Unbalance input impedance	3.9K ohm
Each microphone recording output impedance	1K ohm
Circuit microphone trigger voltage	<100mV
Single microphone turn on time	<350uS
Single microphone delay time	1-999s
Product shipping dimensions( WxDxH)	420x44x215(560x80x340)mm
N,W/G,W	3.0kg/4.0kg

**MC100 series professional conference system**

- Three groups of 8P-DIN wiring terminals for system connection; Each could be connected up to 20pcs of microphone units.
- Digital indicators for working mode and pattern.
- Three function keys, Mode, Set and Enter.
- Three modes of speech, Free, FIFO and Limit; And three subsidiary modes to each speech mode: C.only (Chairman MIC privilege), A.off (Automatically turn-off), Music (Hint music for Chairman MIC priority).
  1. When set in free discussion, it allows any MIC unit to be turned on for speech and automatically turned-off after speech.
  2. When set in limit, 1 to 19 MIC units could be set on speech together. When the maximum number is occupied, the latter MIC could be only turned on for speech by turning off the working MIC.
  3. When set in limit, 1 to 19 MIC units could be set on speech together. When the maximum number is occupied, the latter MIC could be only turned on for speech by turning off the working MIC.
  4. C.ONLY: Chairman MIC privilege mode and Chairman MIC normal mode.when set in Chairman MIC privilege mode, once the priority knob is pressed, all of the delegate MIC would be closed and could only be turned on by turning off the chairman MIC.when set in Chairman MIC normal mode, once the priority knob is pressed, all of the delegate MIC would be closed, but still could be turned on freely.
  5. A.off: When set in A.off, all the MIC would be turned off automatically within 30 seconds after speech.
  6. Music: Hint music for Chairman MIC priority and non hint for Chairman MIC priority.
- Telephone conference terminal.
- High pitch and low pitch volume controllers to adjust system sound quality.
- Right/Left output, balanced output and unbalanced output depending on the required connection.
- Power consumption:60W.
- Standard 19inch cabinet.

**SPECIFICATIONS**

Model	MC100A
Type	Major / 主机
Control microphone number at each channel	20
Working mode	"Mode" "Set" "Enter"
Conference mode	Free discussion mode, alternation mode, restrict mode
Chairman music alarm	Yes" or "No" optional
Major power consumption	60W
Microphone automatic turn off time	30 seconds
Frequency response	60Hz~15000Hz
Sensitivity	-47dB±2dB(20-50mm microphone distance for reference)
Product/shipping dimensions	460x330x65(510x425x145)mm
N.W/G.W	3.2kg/4.0kg



### MC100 series professional conference system

- Unidirectional condenser microphone.
- Double colors light for speech/off-speech indication.
- Any numbers of chairman units for connection at any location
- All microphones are powered by DC 24V from the major, stable and reliable.
- 2.1 meter BP cable (male).
- Priority function and speech control function of delegates at chairman unit.
- Streamlined ultra-thin design with strong aluminum alloy for the base, simple, durable and high interference resistance.
- Available for telephone conference.



### SPECIFICATIONS

	MC100B	MC100C
Model	MC100B	MC100C
Type	Chairman	Delegate
Input/output	P-DINx1(2M)	P-DINx1(2M)
Microphone	Unidirectional condenser microphone	Unidirectional condenser microphone
Power supply	DC24V	DC24V
Current drain	40mA	40mA
Sensitivity	-47dB	-47dB
S/N	65dB	65dB
Frequency response	50Hz-16KHZ	50Hz-16KHZ
Weight	1.0kg	1.0kg
Color	Black	Black

### MC200 series professional conference microphone

- Standard XLR connectors.
- Stable performance and strong ability to suit to different kinds of working environment.
- High sound pickup sensitivity and clear sound reproduction, tailored for conference rooms.
- Low distortion, low noise but high sensitivity, high dynamic range.
- Anti GSM radio frequency interference design, no more interfered noise.



### SPECIFICATIONS

	MC200
Model	MC200
Input/output	XLR
Microphone	Unidirectional condenser microphone
Power supply	48V phantom power
Current drain	40mA
Sensitivity	-47dB
Frequency response	50Hz-17KHz
Weight	0.8kg
Color	Black

**WM300A+ digital wired conference system major**

The WM300 is a hand-in-hand conference system with one-wire network cable transmission intelligent control technology. It features easy operation, stable and reliable. The system adopts high-speed CPU program editing control and high fidelity circuit design to achieve perfect sound reproduction. The system automatically detects as well as innovates speech mode setting and speech time setting. It is a new generation of multi-functional intelligent video tracking conference system free from computer limitation. It is suitable for halls, hotels, banks, corporate conference halls and large multi lingual international conference halls.

**FEATURES**

- Wireless control of all control functions by WIFI.
- The knob with marks on the front panel for direct setting input and output volume.
- Permanent off and temporary off can be controlled by the priority key on the chairman unit.
- An alarm audio input and alarm control interface. It can automatically switch the alarm signal when there is an alarm.
- A programmable RCA audio input is available to be turned on or off at any time.
- System hot plug is available. Chinese or English menu operation and calendar are displayed on the LCD screen of the conference major.
- Four microphone input channels can connect up to 64 pieces of microphones.
- Multiple conference major linking function allows up to 320 delegates connection at the same time.
- Multiple external audio inputs and output interfaces optional.
- USB recording and playback provides more than 2000 hours continuous recording. The recording is directly MP3 format.
- Locking or releasing the operation of the microphones can be set on the major unit.
- System input and output level can be adjusted.
- The speech mode includes first in first out, last in first out, automatic mode, discussion mode and chairman mode.
- Voice control to turn on the microphone function and speech time limit function (1-999 seconds optional).
- USB interface and RS232 serial port bidirectional control.
- Connect the computer to simulate the scene layout of the on-site meeting, and click to turn on or off the delegates at any time it needs.
- It allows central control. The two-way code sending function can perfectly match with the central control devices.
- TCP / IP network interface provides remote control and remote assistance.
- One key to turn on the delegates, trouble free and time saving.
- USB upgrade to fine tuning live applications.
- Self checking function can quickly locate general problems on site.
- Mobile phone and RF anti-interference design meets the requirements of modern conference environment.
- 2.8" 128 \* 64 screen.





SPECIFICATIONS	
Model	WM300A+
Voltage supply	180-264V, AC 50Hz(+/-1%)
Max power	200W
Working temperature/humidity	-9°C -- 40°C 30%-90%RH
Storage temperature/humidity	-20°C -- 60°C 10%-95%RH
Audio RCA output	2 channels, 1K ohm, maximum output < = 1V
Audio RCA output	2 channels, 1K ohm, maximum input < = 6V
Balanced output	1 channel, 1K ohm, maximum output < = 1V
Programmable RCA audio input	1 channel, 2.2k ohm, maximum input < = 1.3V
Alarm RCA audio input	1 channel, 2.2k ohm, maximum input < = 1.3V
Isolated alarm input signal	1 channel, 3V-5VDC
Center control terminal	RS232-C(female) (母)
USB terminal	USB-B(female) (母)
Network terminal	RJ45
4-way line connectors	RJ45
Cascade in and out terminal	8-pin aviation & RJ45
USB recording	USB-A(male)
Product dimensions	480x320x90mm
N.W	4.85kg
Color	Black

### WM300B+ Chairman/WM300C+ delegate

- Simple but elegant design meets the requirements of modern conference.
- All the keys are silent touch buttons with good material and user friendly design, full functions but easy to operate.
- Detachable microphone with square acoustic design provides longer pickup distance and better overall effect.
- Hand-in-hand one-wire power supply allows very simple system wiring. It can also connect to another power supply in between, flexible to various sizes of venues installations.
- Standard network cable connection can quickly build up a large-scale system.
- Intelligent voice control, the sensitivity of voice control can be adjusted in a wide range to meet the needs of a variety of people.
- Multiple speech modes: timing closing mode and automatic closing mode, more suitable for a variety of meeting occasions and also environmental.
- Priority function available at Chairman unit.
- 2.3" screen can display microphone ON/OFF information and indicate address status.



SPECIFICATIONS		
Model	WM300B+	WM300C+
Type	Chairman	delegate
Working voltage	DC24V	
Pickup mode	Unidirectional	
S/N ratio	68dB	
Quiescent current	38mA	
Sensitivity	-47±1dB	
Line connection	RJ45 network cable	
Working temperature	-8°C -- 40°C 30%-90%RH	
Storage temperature/humidity	-20°C -- 60°C 10%-95%RH	
Installation mode	Desktop	
Microphone length	18.5cm	
Color	Black	

### WM 500A+ wireless conference system major

- Humanized menu button design; 12 buttons directly correspond to the screen display menu.
- True diversity receiving mode; built-in five independent true diversity receiving modules.
- 600MHz communication frequency band; + 433MHz data communication.
- Digital transmission communication is more accurate.
- 2U cabinet is tailed for 19" standard equipment rack.
- The innovative intelligent voice navigation key guides are very user friendly. After pressing any key, the voice navigation will prompt the corresponding function and guide the next setting.
- Preset ID for delegates, voice control automatic standby and closing function, more environmental and power saving.
- Available to connect video conference tracking device and HD camera to achieve camera tracking.





SPECIFICATIONS	
Model	WM500A+
Frequency range	UHF640-690 MHz
Modulation	FM
Tunable range	25MHz (10 groups) 200
Channels	250KHz
Frequency interval	Within $\pm 0.005\%$
Frequency stability	100dB
Dynamic range	$\pm 45\text{KHz}$
Max deviation	80Hz-18KHz( $\pm 3\text{dB}$ )
Frequency response	
T.H.D	$>105\text{dB}$
Distortion	$\leq 0.5\%$
Working temperature	$-10^{\circ}\text{C} \rightarrow +40^{\circ}\text{C}$
Receiver mode	Major receiver Superheterodyne second frequency conversion, true diversity reception
Intermediate frequency	First 110MHz, second 10.7MHz
Radio interface	BNC/50 ohms
Sensitivity	12 dB $\mu$ V (80dBBS/N)
Sensitivity adjustment range	12-32 dB $\mu$ V
Spurious suppression	$\geq 75\text{dB}$
Max output level	+10 dBV

#### WM500B + Chairman/WM500C + delegate

- 8pcs (4 + 4) No.5 Ni MH batteries. 4 or 8 batteries are optional. If 8 batteries are used, the working time will be much longer
- 4" large screen displays frequency, channel as well as power status, more elegant and professional.
- Volume level display
- Voice control function, if the delegates are detected no speaking for 3 minutes, the delegates will automatically turn to standby. And the chairman unit is inspecting this without speaking.
- Power saving function, the delegates and the chairman units will automatically turn off after standby for 2 minutes.
- DC12V charging terminal
- The built-in button is available to set microphone parameters



WM500B+



WM500C+

SPECIFICATIONS	
Model	WM500B+      WM500C+
Antenna program	Built in spiral antenna
Output power	High power 300mW
Spurious suppression	-60dB
Power supply	8* AA batteries
Battery life time	Depends on the speaking frequencies and time of speaking

**WM401/WM801 conference system major**

The 401/801 is capable of automatic frequency scanning to find the cleanest frequency and lock it. Non-mutual interference even at least 4 sets stacking and working at the same time in the same room. Frequency range is available from 540-590MHz, 640-690MHz, 740-790MHz and 800-850MHz. Each channel is coming with an independent module group with 100 adjustable frequency points. Four modules constitute eight independent channels with a total of 200 adjustable frequency points. The LCD displays channels and adjustable sensitivity. Unused module can be turned off if using less than 3 channels. When a module fails, the module can be replaced separately but no need to repair the other parts of receiver. It will help to save maintenance costs.

**SPECIFICATIONS**

Model	WM401	WM801
Frequency range	UHF640-870MHz	
Modulation	FM	
Tunable range	50MHz	
Channels	600	
Channel interval	250KHz	
Frequency stability	±0.005% (U/P)	
Dynamic range	100dB	
Max deviation	±45KHz	
Frequency response	80HZ-18KHz(±3dB)	
Total S/N ratio	>105dB	
T.H.D	±0.5%	
Product dimensions(WxDxH)	420x182x44mm	420x182x88mm
N.W	2.0kg	4.0kg

**WMT conference microphone****SPECIFICATIONS**

Model	WMT
Antenna program	Built in 1 / 4 wavelength whip antenna
Output power	High power 30MW
Spurious suppression	- 60dB
Power supply	3* AA batteries
Battery lifetime	About 8-10 hours at 30MW
Product dimensions(WxDxH)	185x115x45mm
Gooseneck length	420 mm
N.W	0.78 kg





<http://www.bloma.com>

ZJ-01 Telescopic speaker mounting pole



ZJ-02 Triangular speaker stand



ZJ-03 Mounting pole



Ø12 line array specialized rigging pins



Ø8 line array specialized rigging pins



XY-07 (Ø6 Standard type)



XY-05 (Hanging type)



Steel wire rope for speaker



UH-1recharger



Speaker cable (Customized)



Signal cable (Customized)



RF cable





Q-f specialized suspender



Φ-f specialized suspender



Φ-bf specialized suspender



X-f specialized suspender



n-f specialized suspender



y specialized suspender



n-f specialized suspender



X-2f specialized suspender



X-5P X-6P KH4500 wall mounting bracket



X-6z side connection ear



X-6f suspension bracket



SYSTEM33f flying frame



X-8f specialized suspender



KH8200 wall mounting bracket



UHF 68 rack mount bracket



PT-01



PT-02



PT-03



PT-04



PT-05



PT-06



PT-07



PT-08



PT-09







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