



Column speaker

LSM active series with DSP

CX3 constant resistance/pressure series

Audio and video system overall solution intelligent supplier

R&D BACKGROUND

Research and Development

Column speaker series

In recent years, because of its slender and compact shape, column speakers can be perfectly integrated with the building environment to create a beautiful and comfortable listening space. Moreover, because of the characteristics of line source, the column covers more evenly than traditional point source speakers, has wider horizontal and narrow vertical directivity, and has better language clarity and higher amplification gain. It is more suitable for some special occasions, such as conference rooms, churches and so on.

At present, the domestic column speakers are still passive, and the configuration is more complicated. When using it, it needs to be equipped with related equipment such as mixing console, processor, amplifier, etc. It also needs a professional tuner to carry out careful system debugging, which is very inconvenient to use.

The newly developed series of sound columns by Soundking has built-in professional digital audio processor, amplifier and other devices, and the performance parameters have been accurately debugged according to the actual use scenario. Users only need simple connection to use them normally. This greatly improves the installation and debugging efficiency of the audio system engineering contractors, and also makes the end user easier to operate and maintain.

Column speaker series



LSM active series with DSP



CX3 constant resistance/pressure series

PRODUCT FAMILY

LSM active series
with DSP

CX3 constant resistance/
pressure series

240W Active Column Speaker with DSP (LSM135)

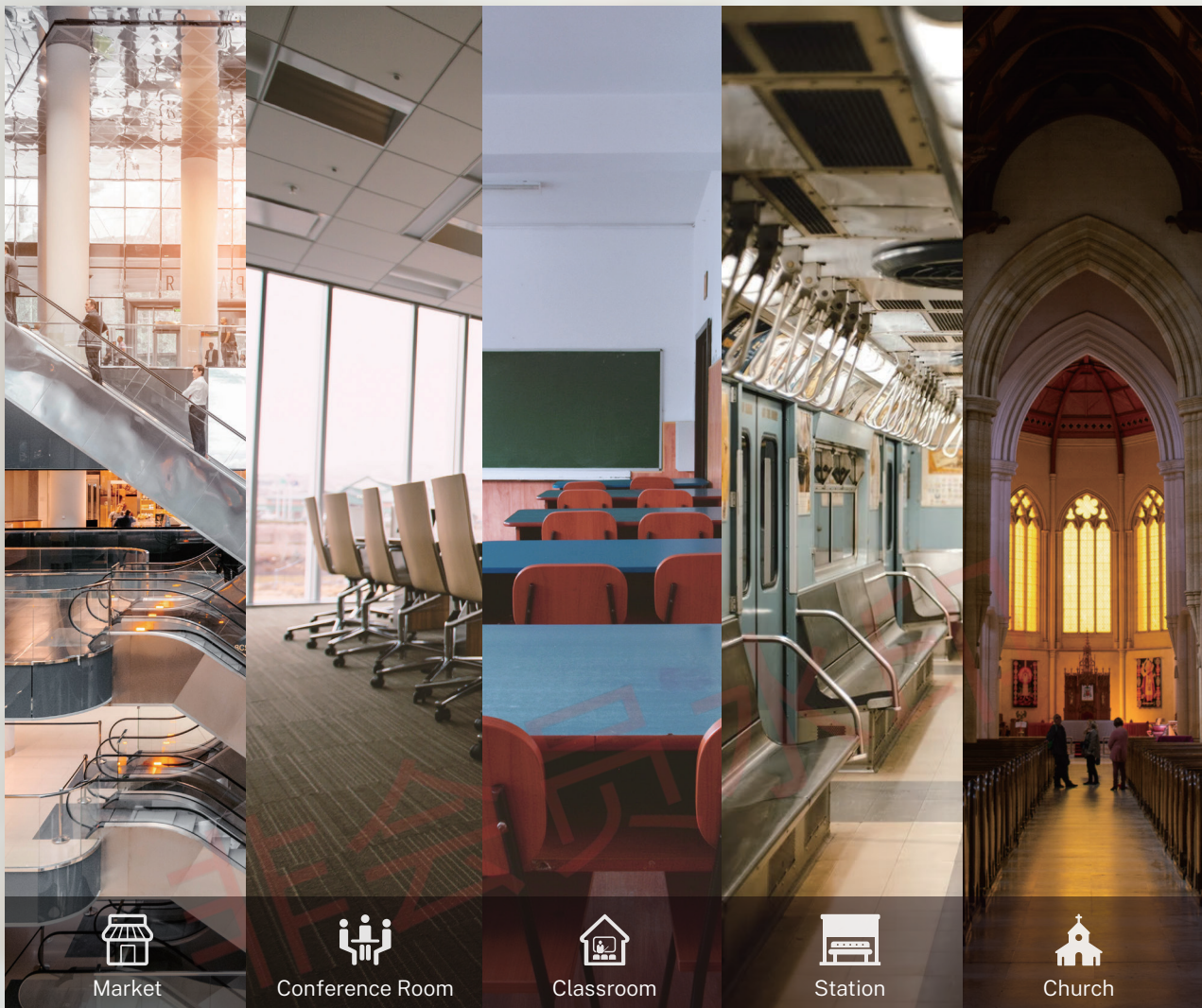
240W Active Column Speaker with DSP (LSM163)

CX3 constant resistance column/ waterproof
column speaker(3" speaker)

CX3 constant pressure column/ waterproof
column speaker(3" speaker)

TECHNOLOGICAL INNOVATION

- Integrated metal housing, built-in high quality neodymium magnetic full-range speaker; Professional digital DSP automatically match audio parameters
- Wide frequency response, high definition, wide horizontal coverage angle, long radiation distance, good bass effect, good speech clarity, stable performance
- The patented compact cabinet blends seamlessly in any architecturally sensitive environments
- Slim and compact structural, can blend perfectly with the environment. Create perfect sound amplification
- Lighter weight and smaller size than professional speakers
- With professional wall mounting bracket, adjustable horizontally or vertically at multiple angles
- Full range of products: multi-style, multi-size, multi-color options
- CX3 series waterproof cabinet structure, dust and water proof up to IP54



APPLICATION

Suitable for shopping malls, conference rooms, classrooms, stations, churches and other occasions with high sound quality requirements

LSM active series with DSP

LSM135/LSM163

640W active column speaker (DSP)

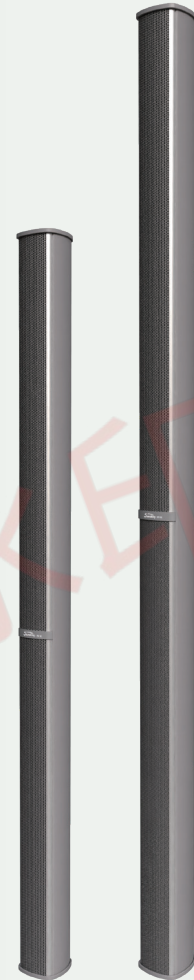
Introduction

The new LSM series active speaker developed by Soundking has built-in professional digital DSP, power amplifier and other technologies, replacing the drawbacks of the traditional speaker connected with a variety of complex devices. Performance parameters have been set to various modes based on actual usage scenarios, and users only need a simple connection to work properly.

This LSM active (DSP) speaker is tailored for LED displays and provides the best solution for all LED screens. This product is suitable for large, medium and small rooms, churches, classrooms, stations, exhibition halls and other occasions, especially for all LED displays to provide the best audio system products. It is a medium and high grade engineering sound specially designed for high sound quality, good bass effect, good voice clarity and small installation space.

Features

- Active speaker contains **speaker DSP module** necessary for sound amplification system
- Supports automatic matching of audio parameters under presets
- High speech articulation and large dynamic range
- Digital amplifier with high power, low distortion and excellent sound quality
- Switching power design, light weight, stable performance, allows **100V~240V** wide power input
- With professional fixing mount



Rear panel

Combined with processor and active amplifier module

| | | | |
|------------------------|--|-------------------|---------------------------------|
| Model | LSM135/LSM163 | Type | Active 2-way line array speaker |
| Frequency range(-10dB) | 65Hz-20kHz | Input voltage | 100-240V |
| Amp power | 640W/8Ω | Dimension (WxHxD) | 118*1835*128mm/ 118*2172*128mm |
| Max. SPL(@1m) | 121dB(peak) | Net weight | 12.8kg/14.3kg |
| 35mm mount hole | No | Coverage (HxV) | 120°x30° |
| LF transducer | 6x3" Nd magnet full-range/φ25mm vc/ 30W/ 8Ω | | |
| HF transducer | 1x1" HF compression driver/φ25mm vc/ 10W/ 8Ω | | |
| Connection | 1x XLR balanced signal input, 1x 3pin phoenix balanced input, 1x RS485 | | |

Application Topology Diagram

LSM series active speaker has built-in professional digital DSP, power amplifier and other technologies, replacing the drawbacks of the traditional speaker connected with a variety of complex devices. Performance parameters have been set to various modes based on actual usage scenarios, and users only need a simple connection to work properly. No careful system debugging by professional tuners is required, which makes the operation easier and maintenance easier.



CX3

constant resistance/ pressure series

Introduction

CX series all-weather line array speaker system is composed of several high-quality 3 " neodymium magnetic full-range speakers arranged tightly. It features wide frequency response, high definition, wide horizontal coverage and long radiation distance. Compared to professional speakers with the same maximum sound pressure level, they are smaller in size, lighter in weight and easier to carry.

Technological innovation

- Aluminum alloy cabinet, with its slim and compact shape, can blend perfectly with the building environment to create a beautiful and comfortable listening space
- Fully waterproof structure, dustproof, waterproof grade: IP54
- Dedicated wall mounts are available for quick wall mounting. Horizontal and vertical angles are adjustable
- The constant-voltage model has a built-in high-performance audio transformer with twice the power of the same speaker on the market. It is used with a dedicated constant-voltage amplifier and is suitable for long-distance transmission applications

Feature

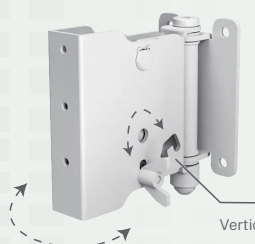
- High strength aluminum alloy housing, complete set of mold processing, easy assembly and convenient operation
- 4/8 Plug-in sockets, 2 internal parallel connections, special PG waterproof socket signal output
- 3 inch full-range speaker, fiberglass pelvic sound film, NdFeB magnetic circuit, high sensitivity, light weight
- Two configurations, constant voltage and constant resistance, with a constant voltage of 100V and three power outputs: 100%, 50%, 25%
- With professional wall mounting bracket, adjustable horizontally or vertically at multiple angles
- Two cabinet colors are available for user to choose from: black and white

Accessory

► (CX301/CX302)



► (CX304/CX308/CX312)



Vertical angle can be adjusted 0°/10°/20°/30°

Horizontal angle can be adjusted 65°

CX3 series

(constant resistance)

Full- speaker system

- Aluminum alloy cabinet, equipped with full-range speakers, high sensitivity
- The speaker not only has dustproof function, but also in the waterproof series, the waterproof level can reach IP54, and it is equipped with a dedicated waterproof signal output socket
- Dedicated wall mount, easy to install, can be adjusted horizontally and vertically according to the needs of the scene to achieve the best sound reinforcement effect
- The constant resistance model features high output power and high sound pressure level, suitable for single speaker or multiple speakers in series and parallel combination application



rear panel



(CX301RF | CX302RF)



(CX304RF | CX308RF | CX312RF)

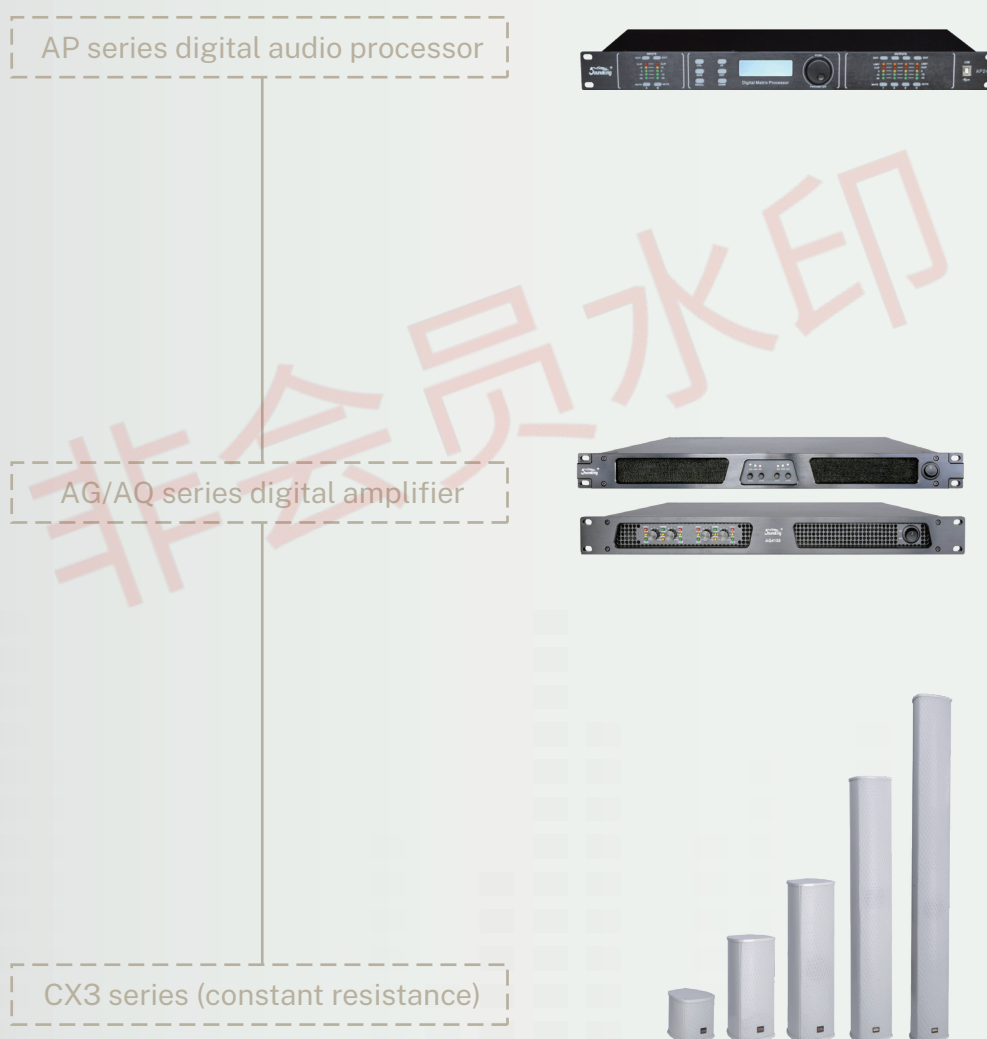
waterproof cover



| Model | CX301R CX301RF | CX302R CX302RF | CX304R CX304RF | CX308R CX308RF | CX312R CX312RF |
|---------------------------|--------------------------|--------------------------|---------------------------|---------------------------|----------------------------|
| Speaker | 3" speakerX1 | 3" speakerX2 | 3" speakerX4 | 3" speakerX8 | 3" speakerX12 |
| Frequency response(-10dB) | 130Hz-20kHz | 130Hz-20kHz | 130Hz-20kHz | 130Hz-20kHz | 130Hz-20kHz |
| Rated power | 30W(constant)/120W(peak) | 60W(constant)/240W(peak) | 120W(constant)/480W(peak) | 240W(constant)/960W(peak) | 360W(constant)/1440W(peak) |
| Max. SPL | 108dB | 114dB | 120dB | 126dB | 130dB |
| Coverage | 100°x100° | 100°x40° | 100°x30° | 100°x20° | 100°x20° |
| Transducer | φ20mm VC | φ20mm VC | φ20mm VC | φ20mm VC | φ20mm VC |
| Sensitivity | 87dB | 90dB | 93dB | 96dB | 98dB |
| Nominal impedance | 8Ω | 8Ω | 8Ω | 8Ω | 12Ω |
| Connector | 1XPHOENIX(4P) | 1XPHOENIX(4P) | 1XPHOENIX(8P) | 1XPHOENIX(8P) | 1XPHOENIX(8P) |
| Dimension (WxHxD) | 118x122x121mm | 118x190x121mm | 118x400x121mm | 118x682x121mm | 118x1006x121mm |
| Net weight/gross weight | 1.1kg 12.2kg | 1.6kg 7.3kg | 2.9kg 5kg | 4.9kg 8kg | 6.9kg 11kg |
| Package size (WxHxD) | 470x470x335mm | 470x425x405mm | 220x220x585mm | 220x220x870mm | 220x220x1190mm |
| Packing quantity | 4 PCS | 2 PCS | 1 PCS | 1 PCS | 1 PCS |
| Mount hole | No | No | No | No | No |

Application Topology Diagram

In order to achieve better sound quality in different environments, we can provide customized cost-effective column speaker solutions. It solves the complex process of cumbersome processor, amplifier, column speaker allocation and professional tuner debugging. Professional audio-visual effects can be easily enjoyed by simply plugging in the power supply.



AP series digital audio processor

AP Series Processors are high-performance, cost-effective processors designed for the middle and low-end areas. They have clear software interface modules, simple operation, multiple user presets, and can be stored and invoked separately for the whole state and each preset. It has password protection function to make the device safer. Remote control via RS232 or RS485 facilitates customer intelligent control.



32-bit DSP chip processing, 48kHz sampling rate, 24 bit AD/DA conversion.

- The input processing section contains processing functions such as high-cut, low-cut, 8 PEQ, gain, mute, phase, delay, and continuous adjustment.
- The output processing section contains processing units such as crossover, 9 parametric equalization, gain, mute, compression/clipper, phase, delay, and continuous adjustment.
- The PEQ gain, bandwidth and frequency of all channels can be continuously adjusted, and the types can be selected: parametric equalization, low-shelf filtering, high-shelf filtering, low-cut filtering, high-cut filtering.
- Matrix assignment is free between all inputs and outputs, and the name of each input and output channel can be changed.
- For all high-cut and low-cut filters, the type of divider can be selected: Butterworth, Linkwitz-Riley, Bessel, and slopes option from -6dB/Oct to -48dB/Oct.
- The threshold, ratio, start-up time and recovery time of the compressor/limiter in the output channel can be continuously adjusted.
- Delay modules for all input and output channels have a delay time of up to 680ms.
- Parameter settings between any channels can be freely copied, and any channel can be continuously adjusted.
- Built-in test signal generator, pink noise, white noise and 20Hz-20kHz sine wave can be adjusted, signal amplitude can be adjusted.
- Front panel with input and output level indicator, USB control port, back panel 232&485 control port, one-touch connection makes user's operation easier and faster. With 30 user presets, the entire state and each preset can be stored and invoked separately. The ID setting function can control 250 machines in cascade, and also has password protection function to make the device safer.



| Model | AP24 | AP36 | AP48 | AP88 |
|----------------------------|---|--------------|--------------|--------------|
| Input | 2 | 3 | 4 | 8 |
| output | 4 | 6 | 8 | 8 |
| Product size | 482*205*44mm | 482*205*44mm | 482*205*44mm | 482*205*44mm |
| Net /Gross weight | 1.8kg/2.63kg | 2kg/2.8kg | 2.63kg/3.5kg | 2.8kg/3.7kg |
| Packing quantity | 1PCS | 1PCS | 1PCS | 1PCS |
| Specification | 20Hz~20kHz+ | | | |
| Frequency response | -0.3dBu | | | |
| Dynamic range | >110dBu | | | |
| Distortion | <0.01%at 1kHz(0dBu)/ >70dBu20Hz-20kHz | | | |
| Crosstalk | >75dBu 1KHz | | | |
| CMRR | Balanced XLR connection | | | |
| Input style | +15dBu/≥8kΩ | | | |
| Max.input level/Impedance | Balanced XLR connection | | | |
| Output style | +15dBu/≤50 Ω | | | |
| Max.output level/Impedance | 24 bit sigma-delta A/D、 D/A conversion | | | |
| Digital processing part | 32 bit Dsp.48kHz sampling rate | | | |
| Display | LCD shows current parameters and all settings | | | |
| Power supply | AC-95V-250V50/60Hz | | | |

CX3 series

(constant pressure)

Full- speaker system

- Aluminum alloy cabinet, equipped with full-range speakers, high sensitivity
- The speaker not only has dustproof function, but also in the waterproof series, the waterproof level can reach IP54, and it is equipped with a dedicated waterproof signal output socket
- Dedicated wall mount, easy to install, can be adjusted horizontally and vertically according to the needs of the scene to achieve the best sound reinforcement effect
- Constant pressure with built-in high-performance audio transformer, twice the power of the same speaker on the market, with a dedicated constant-pressure power amplifier for long-distance transmission applications



rear panel



(CX301RF | CX302RF)



(CX304RF | CX308RF | CX312RF)

waterproof cover



| Model | CX301V CX301VF | CX302V CX302VF | CX304V CX304VF | CX308V CX308VF | CX312V CX312VF |
|---------------------------|------------------|------------------|------------------|------------------|------------------|
| Speaker | 3" speakerX1 | 3" speakerX2 | 3" speakerX4 | 3" speakerX8 | 3" speakerX12 |
| Frequency response(-10dB) | 130Hz-20kHz | 130Hz-20kHz | 130Hz-20kHz | 130Hz-20kHz | 130Hz-20kHz |
| Rated power | 30W | 60W | 120W | 240W | 360W |
| Max. SPL | 108dB | 114dB | 120dB | 126dB | 130dB |
| Coverage | 100°x100° | 100°x40° | 100°x30° | 100°x20° | 100°x20° |
| Transducer | φ20mm VC | φ20mm VC | φ20mm VC | φ20mm VC | φ20mm VC |
| Sensitivity | 87dB | 90dB | 93dB | 96dB | 98dB |
| Audio transformer power | 20W 10W 5W | 20W 10W 5W | 120W 60W 30W | 120W 60W 30W | 120W 60W 30W |
| Connector | 1XPHOENIX(4P) | 1XPHOENIX(4P) | 1XPHOENIX(8P) | 1XPHOENIX(8P) | 1XPHOENIX(8P) |
| Dimension (WxHxD) | 118x122x121mm | 118x190x121mm | 118x400x121mm | 118x682x121mm | 118x1006x121mm |
| Net weight/gross weight | 1.1kg 12.2kg | 1.6kg 7.3kg | 2.9kg 5kg | 4.9kg 8kg | 6.9kg 11kg |
| Package size (WxHxD) | 470x470x335mm | 470x425x405mm | 220x220x585mm | 220x220x870mm | 220x220x1190mm |
| Packing quantity | 4 PCS | 2 PCS | 1 PCS | 1 PCS | 1 PCS |
| Mount hole | No | No | No | No | No |

Column speaker series
---CX3 series solution
(constant pressure)

Application Topology Diagram

In order to achieve better sound quality in different environments, we can provide customized cost-effective column speaker solutions. It solves the complex process of cumbersome processor, amplifier, column speaker allocation and professional tuner debugging. Professional audio-visual effects can be easily enjoyed by simply plugging in the power supply.

AP series digital audio processor



GMS/GMG series constant voltage amplifier



CX3 series (constant pressure)



4-way post PA amplifier

- Constant resistance and constant-voltage are provided to make this machine work as a PA system or with professional speakers.
- The professional floating-ground amplifier technology enables the local machine to respond faster and is suitable for all types of speakers;
- It has perfect protection circuits such as over voltage, over current, short circuit, midpoint drift, etc.
- Multi-level adjustment of the cooling fan, high-speed, mute to ensure good heat dissipation;
- Excellent noise control;
- The high strength 2U standard rack design is suitable for desktop and cabinet use;
- Exquisite black design.



| Model | GMS70 | GMS150 | GMS250 | GMS350 |
|-------------------------|--|-------------|-------------|-------------|
| Rated power (17VRms/4Ω) | 4x70W | 4x150W | 4x250W | 4x350W |
| Net /Gross weight | 16kg/18.5kg | 18kg/20.5kg | 20kg/22.5kg | 22kg/24.5kg |
| Frequency response | 100Hz-20KHz±3dB | | | |
| Distortion | <0.2%(LINE input<2%)/1KHz/10V fixed resistance output> | | | |
| LINE IN sensitivity | 750mV±15%/1KHz/47KΩ | | | |
| SNR | ≥90dB (A weight) | | | |
| Power supply | 220V/50Hz | | | |
| Max. consumption | 509W | | | |
| Dimension (WxHxD) | 480*495*90mm | | | |
| Packing quantity | 1PCS | | | |

High-power post PA amplifier

- It has RCA and XLR sockets, which are ideal for large, medium and small public places.
- With 100V, 70V constant voltage output and 4~16Ω constant resistance output, this machine can be used both as a PA system and with professional speakers.
- The output volume can be adjusted;
- LED level display: can display output signal strength, distortion status, protect acousto-optic prompt, easy to observe the working condition of the machine;
- It has perfect functions of over voltage, over current, short circuit, midpoint drift and over temperature protection;
- Excellent noise control, comparable to professional amplifiers;
- Unique auto-compression function of input signal, the output signal will never be distorted, maximum protection of the speaker will not be caused by too large input signal or human error operation;
- Variable speed fan, the speed changes with temperature, efficient and energy-saving, mute to ensure good heat dissipation;
- Professional modular circuit design to ensure the reliability and consistency of products;
- High strength 1.5MM thick enclosure to ensure that the product will not be deformed due to the harsh environment or transportation.



| Model | GMG800 | GMG1000W | GMG1500W | GMG2000W |
|---------------------------|---|---------------|---------------|---------------|
| Output power | 800W | 1000W | 1500W | 2000W |
| Constant resistant output | 60VRMS/4Ω | 63VRMS/4Ω | 77VRMS/4Ω | 89VRMS/4Ω |
| Max. consumption | 1080W | 1800W | 2700W | 3600W |
| Dimension (WxHxD) | 484*330*88mm | 484*520*132mm | 484*520*132mm | 484*520*132mm |
| Net /Gross weight | 14kg/15.7kg | 27.8kg/31.6kg | 28.6kg/32.4kg | 30.9kg/34.7kg |
| Constant voltage output | 70V/100V | | | |
| Frequency response | 100Hz-18kHz(±3dB) | | | |
| Distortion | <2%(LINE input<2%) / 1kHz/10V Constant output | | | |
| LINE IN sensitivity | 750mv±15%/1kHz/47KΩ | | | |
| SNR | ≥80dB(A weighted) | | | |
| Power supply | AC220V/50Hz | | | |
| Packing quantity | 1PCS | | | |

非会员水印

Soundking Electroacoustic Co., Ltd

400-178-1688
www.soundking.com.cn

