SPIRIT®

Pro Audio System Manufacturer

a member of Power & Grace Group



CATALOGUE

SPIRIT®

Http://www.spirit-proaudio.com
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a member of Power & Grace Group

COMPANY BRIEF INTRODUCTION



Shengli Electroacoustic equipment Co ltd is under Power & Grace Co. ,limited . It is responsible for manufacture 、sales、R&D and technical services in one of the professional audio production enterprises which main products are：mixer 、amplifier 、line array system ,PA speaker 、digital and analog audio signal processor 、Karaoke system and Publice address system .

Since its establishment, we focus on staff training, R & D, improvement of productive level, and exploration of management ideas. Today, we have to temper into a really unique management experience, advanced production equipment, strong design strength, a powerful force in marketing and service of professional audio production of a well-known enterprises, leading the Far East, the level of professional audio technology rise. Our Product best-selling more than 60 countries and regions, best well know at the international market. With high-tech to creat first-class products and carry out ISO 9001:2000 management system to protect the efficient operation, dedication to customer service to expand the concept of domestic and foreign markets sincerely with the friends work together for common development.

CONTENTS

1.Audio Mixer.....P01-P12
2.Line Array.....P13-P25
3.Loudspeaker.....P26-P42
4.Power Amplifier.....P43-P44
5.Microphones.....P45-P46

DB . series digital mixing console

DB-12DL / DB-16DL
DB-20DL / DB-24DL

FEATURES

- DB series ,full digital control mixer 12, 16 , 20, 24 channels model and customized model optional
- With motorized faders, large display, USB interface, professional digital interface（SOUND CAR ,SPDiF）
- Input and output channels with independent PEQ, APP control and other advanced features
- With studio recording quality sound, a variety of effects and dynamic processing, that enable entire audio system to run more simply .




DB-16DL




DB-12DL




DB-20DL




DB-24DL

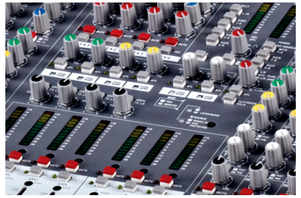
SPECIFICATION

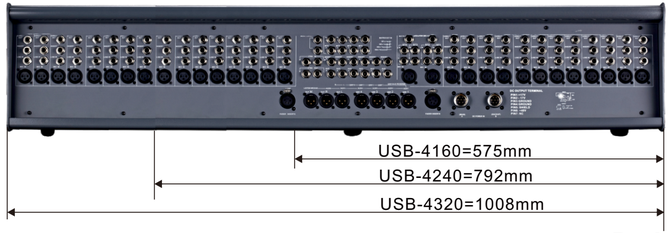
Model	DB-12DL	DB-16DL	DB-20DL	DB-24DL
channels Input	12 channels	16 channels	20 channels	24 channels
	8 MIC, 2 stereo	12 MIC, 2 stereo, 1 return,	16 MIC, 2 stereo	24 MIC, 2 stereo, 1 return,
	sound card, /MP3+ fiber	sound card, /MP3+ fiber input	sound card, /MP3+ fiber input	sound card, /MP3+ fiber input
Numbers of motorized fadders	9 Motorized fadders (100mm)	13 Motorized fadders (100mm)	17 Motorized fadders (100mm)	22 Motorized fadders (100mm)
Input processing	Input gain adjustment (electronic gain), pre amplifier, high and low pass filter,			
	4 segment parameter equalization, compressor, noise gate, delay, input channel sound balance adjustment			
MIC / line Input	1-8 balance XLR jack	1-12 balance XLR jack	1-16 balance XLR jack	1-24, balanced XLR jack
Input sensitivity (XLR/TRS)	-60 ～ +10db /-50 ～ +20db	-60 ～ +10db /-50 ～ +20db	-60 ～ +10db /-50 ～ +20db	-60 ～ +10db /-50 ～ +20db
Electronic gain	-42 ～ +10db, 0.7 steps			
Maximum input level (XLR/TRS)	+19db/+29db			
Input impedance (XLR/TRS)	>5k / >10 K			
THD+N uniform gain state 0db	0.0005%-89db (20 -20KHZ, direct output @0db 1KHZ)			
THD+N medium gain +30db	0.001-75db (20- 20KHZ, direct output @0db 1KHZ)			
Output processing	high and low pass filter, 15 segment parameter balance, compressor, delay, phase			
Output voltage	4V MAX			
Headphone output	7V 220 Euro			
Input 4 segment full parameter equalization	20-20kHz, +/-12db, Q value 0.3~15.0			
Frequency band 1	selectable Lshelf, PEQ			
Frequency band 2	PEQ			
Frequency band 3	PEQ			
Frequency band 4	selectable Hshelf, PEQ			
Input independent delay	maximum 10ms			
Output 15 segment full parameter Equalization	20-20kHz, +/-12db, Q value 0.3~15.0			
Output independent delay	maximum 30ms			
Threshold / ratio	-50dBu to 6dBu / 1:1 ～ infinity			
Impact / release	1ms -127ms / 1ms -127ms			
Gain	+/-12dB			
Motorized faders	100mm			

USB.4 group 7x4 matrix mixer



USB-4160 / USB-4240
USB-4320





Back

Mixer
SPIRIT® PROFESSIONAL SOUND SYSTEM | Series

USB.4 group 7x4 matrix mixer

CHARACTERISTIC

The USB-4240 is a 4-bus dual function analog mixing console designed for professional audio applications. Whether mixing FOH, monitors or both, recording live or in the studio, installed in a busy venue, out on the road touring, or earning its keep in rental stock, the USB-4240 provides the perfect solution. Engineered to the same exacting standards as our top of the range consoles, it ensures the highest reliability and finest sonic performance. We have taken the outstanding success of our industry leading USB-4240 and provided yet more innovative capability and enhanced performance for modern mixing.

- 16, 24,32,channel frames
- LR and M main outputs
- 4 Audio groups with pan control
- 6 Auxiliary sends with per-channel pre/post fader switching
- 2 stereo channels, each with mic and dual stereo line inputs
- 7x4 Matrix
- Proper dual functionality for FOH and/or Monitor mixing
- M can be configured as LR sum, Wedge, or Aux-Fed Sub or C master
- Recording capable with channel direct outputs
- Matrix external inputs with level trims and common input capability
- Stereo channel line inputs can be independently routed to LR
- Stereo channel mic input breakpoints for cross patching into matrix
- Responsive 4 band, 2 sweep EQ
- 100Hz channel high pass filters
- Individual phantom power and polarity switching
- Dedicated channel, master and stereo monitor meters
- Internal jumper plugs for pre/post-EQ aux, direct out and other options
- Mutes, meters and AFL on all fader masters
- Assignable talkback
- 1kHz oscillator and pink noise generator
- 2-track monitoring and replay to LR
- Headphones and local monitor outputs
- Electronically balanced XLR outputs with +26dBu drive capability
- Preamp 74dB range with +34dBu input capability for mic or line
- Ultra low noise mix head amp design
- Internal power supply with redundant backup supply input
- Individual circuit card assembly with nutted pots
- 100mm ALPS protected faders
- Sys-Link V2 console input/output linking option
- Metal jacks, gold-plated XLRs, sealed pots and switches
- USB digital audio connector can be connected with PC and stereo signal transfer



USB.4 group 7x4 matrix mixer

TECHNIQUE INDEX

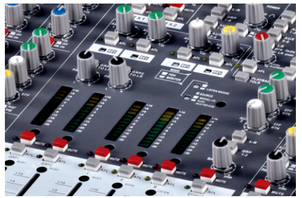
Maximum input level	MIC	+34dBu (inc pad)
	CH Line	+34dBu
	Other Line	+34dBu
Maximum output level	XLR	+26dBu
	Jack	+20dBu
Internal headroom	Channels	+20dBu
	Mix	+22dBu
Meters	3 color LED, quasi peak response	
Sensitivity	0VU = +4dBu at XLR output	
Master meters	12 segment	−30 to +16dB
Channel meters	4 segment	−12,0,+6+16dB (5dB before clip)
Frequency response	20Hz to 20kHz	+/−0.5dB
Mic CMRR at 1kHz	＞80dB typical	
THD+n at +14dBu 1kHz	Channel to mix out	< 0.003%
Crosstalk at 1kHz	Fader shutoff	>90dB
	Mute shutoff	>90dB
	Inter channel	>90dB
Noise, rms 22Hz to 22kHz	Mic EIN -128dB	
	Residual output noise	<−96dBu (-100dB S/N)
	LR mix noise 16 routed	<−86dBu (-90dB S/N)
	Group mix noise 16 routed	<−86dBu (-90dB S/N)
	Aux mix noise 16 routed	<−92dBu (-90dB S/N)
	Mix noise 16 line 0dB gain	<−86dBu S/N
Channel HPF	12dB/octave below 100Hz	
Mono EQ	HF Shelving +/-15dB, 12kHz	
	HM Peak/dip +/-15dB, 500Hz to 15kHz, Q=1.8	
	LM Peak/dip +/-15dB, 35Hz to 1kHz, Q=1.8	
	LF Shelving +/-15dB, 80Hz	

Stereo EQ	HF Shelving +/-15dB, 12kHz		
	HM Peak/dip +/-15dB, 2.5Hz to 15kHz, Q=1.8		
	LM Peak/dip +/-15dB, 250Hz to 1kHz, Q=1.8		
	LF Shelving +/-15dB, 80Hz		
Mono channel	XLR balanced pin 2 hot	Sensitivity -60 to +14dBu	
	TRS balanced, tip hot	Sensitivity -40 to +14dBu	
	Pad out (MIC)	2k ohm	
	Pad in (MIC or LINE)	＞10k ohm, -20dB attenuation	
	Max input level	+34dBu	
	XLR phantom power	+48V, on/off	
Stereo channel	ST1,3 TRS unbalanced	＞10k ohm, -16 to +20dBu	
	ST2,4 TRS balanced	＞10k ohm, -16 to +20dBu	
Talkback mic	XLR balanced pin 2 hot	Sensitivity -50 to -10dBu	
	Phantom power	Internal jumper +48V	
2-track return	TRS unbalanced	＞4k ohm, -2dBu	
2-track send	TRS impedance balanced	<75 ohm, -2dBu	
Inserts	Channel	TRS, tip send, ring return, 0dBu	
	Output	TRS, tip send, ring return, -2dBu	
L, R, M outputs	XLR balanced pin 2 hot	<75 ohm, +4dBu, +26dBu max	
Group (aux) out	XLR balanced pin 2 hot	<75 ohm, +4dBu, +26dBu max	
Aux 1-6 output	TRS impedance balanced	<75 ohm, -2dBu, +20dBu max	
	Electronic balance option	<75 ohm, +4dBu, +26dBu max	
Direct out	TRS impedance balanced	<75 ohm, 0dBu, +20dBu max	
Matrix out	TTRS impedance balanced	<75 ohm, -2dBu, +20dBu max	
	Electronic balance option	<75 ohm, +4dBu, +26dBu max	
Headphones	TRS, tip L, ring R, 30 to 600 ohm headphones recommended		
Monitor output	TRS impedance balanced	<75 ohm, -2dBu, +20dBu max	
Lamp	4-pin XLR	max 12V 5W lamp	
product model	USB-4160	USB−4240	USB−4320
size(LxWxH)mm	575x602x191	792x602x191	1008x602x191
Net weight(kg)	17.35	23.15	29.1

USB.2 group 5x2 matrix mixer



USB-2160 / USB-2240





USB.2 group 5x2 matrix mixer

CHARACTERISTIC

The USB-2240 is a 2-bus dual function analog mixing console designed for professional audio applications. Whether mixing FOH, monitors or both, recording live or in the studio, installed in a busy venue, out on the road touring, or earning its keep in rental stock, the USB-2240 provides the perfect solution. Engineered to the same exacting standards as our top of the range consoles, it ensures the highest reliability and finest sonic performance. We have taken the outstanding success of our industry leading USB-2240 and provided yet more innovative capability and enhanced performance for modern mixing.

- 16, 24 channel frames
- LR and M main outputs
- 2 Audio groups with pan control
- 4 Auxiliary sends with per-channel pre/post fader switching
- 2 stereo channels, each with mic and dual stereo line inputs
- 5x2 Matrix
- Proper dual functionality for FoH and/or Monitor mixing
- M can be configured as LR sum, Wedge, or Aux-Fed Sub or C master
- Recording capable with channel direct outputs
- Matrix external inputs with level trims and common input capability
- Stereo channel line inputs can be independently routed to LR
- Stereo channel mic input breakpoints for cross patching into matrix
- Responsive 4 band, 2 sweep EQ
- 100Hz channel high pass filters
- Individual phantom power and polarity switching
- Dedicated channel, master and stereo monitor meters
- Internal jumper plugs for pre/post-EQ aux, direct out and other options
- Mutes, meters and AFL on all fader masters
- Assignable talkback
- Build-in DSP effect
- 2-track monitoring and replay to LR
- Headphones and local monitor outputs
- Electronically balanced XLR outputs with +26dBu drive capability
- Preamp 74dB range with +34dBu input capability for mic or line
- Ultra low noise mix head amp design
- Internal power supply with redundant backup supply input
- Individual circuit card assembly with nutted pots
- 100mm ALPS protected faders
- Sys-Link V2 console input/output linking option
- Metal jacks, gold-plated XLRs, sealed pots and switches
- USB digital audio connector can be connected with PC and stereo signal transfer.






Mixer
SPIRIT® PROFESSIONAL SOUND SYSTEM | Series

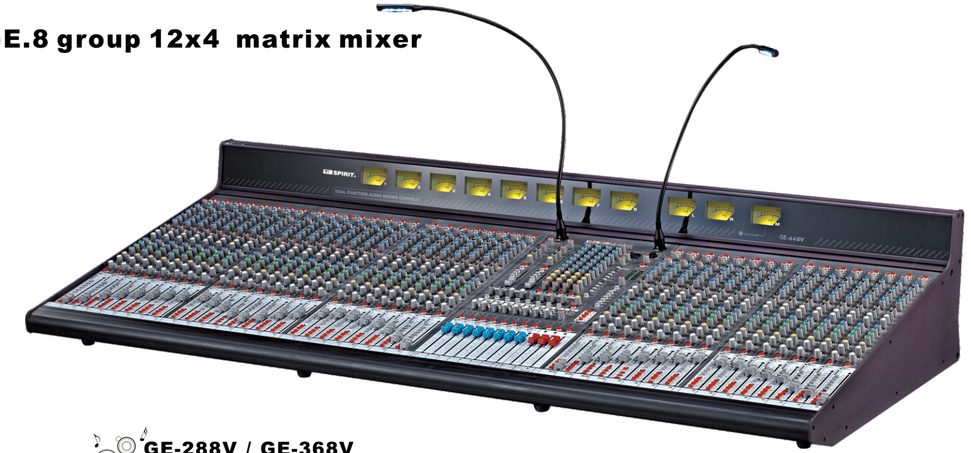
USB.2 group 5x2 matrix mixer

TECHNIQUE INDEX

Maximum input level	MIC	+34dBu (inc pad)
	CH Line	+34dBu
	Other Line	+34dBu
Maximum output level	XLR	+26dBu
	Jack	+20dBu
Internal headroom	Channels	+20dBu
	Mix	+22dBu
Meters	3 color LED, quasi peak response	
Sensitivity	0VU = +4dBu at XLR output	
Master meters	12 segment	−30 to +16dB
Channel meters	4 segment	−12,0,+6+16dB (5dB before clip)
Frequency response	20Hz to 20kHz	+/−0.5dB
Mic CMRR at 1kHz	> 80dB typical	
THD+n at +14dBu 1kHz	Channel to mix out	< 0.003%
Crosstalk at 1kHz	Fader shutoff	>90dB
	Mute shutoff	>90dB
	Inter channel	>90dB
Noise, rms 22Hz to 22kHz	Mic EIN -128dB	
	Residual output noise	<−96dBu (-100dB S/N)
	LR mix noise 16 routed	<−86dBu (-90dB S/N)
	Group mix noise 16 routed	<−86dBu (-90dB S/N)
	Aux mix noise 16 routed	<−92dBu (-90dB S/N)
	Mix noise 16 line 0dB gain	<−86dBu S/N
Channel HPF	12dB/octave below 100Hz	
Mono EQ	HF Shelving +/-15dB, 12kHz	
	HM Peak/dip +/-15dB, 500Hz to 15kHz, Q=1.8	
	LM Peak/dip +/-15dB, 35Hz to 1kHz, Q=1.8	
	LF Shelving +/-15dB, 80Hz	

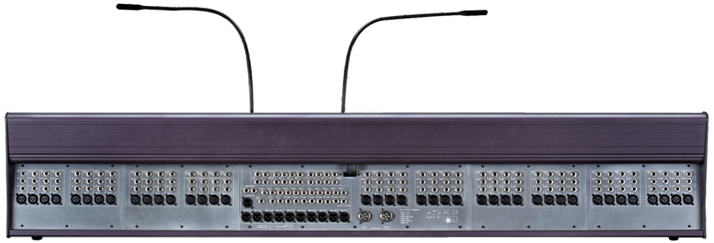
Stereo EQ	HF Shelving +/-15dB, 12kHz	
	HM Peak/dip +/-15dB, 2.5Hz to 15kHz, Q=1.8	
	LM Peak/dip +/-15dB, 250Hz to 1kHz, Q=1.8	
	LF Shelving +/-15dB, 80Hz	
Mono channel	XLR balanced pin 2 hot	Sensitivity -60 to +14dBu
	TRS balanced, tip hot	Sensitivity -40 to +14dBu
	Pad out (MIC)	2k ohm
	Pad in (MIC or LINE)	>10k ohm, -20dB attenuation
	Max input level	+34dBu
	XLR phantom power	+48V, on/off
Stereo channel	ST1,3 TRS unbalanced	>10k ohm, -16 to +20dBu
	ST2,4 TRS balanced	>10k ohm, -16 to +20dBu
Talkback mic	XLR balanced pin 2 hot	Sensitivity -50 to -10dBu
	Phantom power	Internal jumper +48V
2-track return	TRS unbalanced	>4k ohm, -2dBu
2-track send	TRS impedance balanced	<75 ohm, -2dBu
Inserts	Channel	TRS, tip send, ring return, 0dBu
	Output	TRS, tip send, ring return, -2dBu
L, R, M outputs	XLR balanced pin 2 hot	<75 ohm, +4dBu, +26dBu max
Group (aux) out	XLR balanced pin 2 hot	<75 ohm, +4dBu, +26dBu max
Aux 1-6 output	TRS impedance balanced	<75 ohm, -2dBu, +20dBu max
	Electronic balance option	<75 ohm, +4dBu, +26dBu max
Direct out	TRS impedance balanced	<75 ohm, 0dBu, +20dBu max
Matrix out	TTRS impedance balanced	<75 ohm, -2dBu, +20dBu max
	Electronic balance option	<75 ohm, +4dBu, +26dBu max
Headphones	TRS, tip L, ring R, 30 to 600 ohm headphones recommended	
Monitor output	TRS impedance balanced	<75 ohm, -2dBu, +20dBu max
Lamp	4-pin XLR	max 12V 5W lamp
Product model	USB-2160	USB-2240
Size(LxWxH)mm	554x529x160	772x529x160
Net weight(kg)	13.9	19.3

GE.8 group 12x4 matrix mixer



GE-288V / GE-368V
GE-448V





Back

GE.8 group 12x4 matrix mixer

CHARACTERISTIC

- 28 / 36 / 44 channel
- 100mm dual-track metal wear on the number of faders
- +26dBu balanced XLR output
- 74dB preamplifier can accept up to 34dBu microphone or line input level
- mix pre-amplifier has ultra-low noise design
- Eight group outputs can be mixed LR channel and the central channel of the pan access to the M10 AUX channel stereo transmitter channel, with level control and pan
- Eight Group/ assisted the Aux1-8, the LR / the auxiliary Aux9-10 output path swap function
- 11VU meter - Displays the main LR, eight-way grouping, Channel M, and monitor the PFL / AFL level
- 12 × 4 matrix
- Four mute grouping
- The central channel can be used as a central / ultra-low , about superposition or tuner speaker listening channel
- 4-way multi-functional stereo input channels, two for each channel prepared a microphone line input TRS connector
- 2-way dual stereo returns, Return, each of four superimposed or independent stereo returns (switch)
- The microphone input of the stereo channels can be connected by jumper matrix to send the background sound
- Built-in 1kHz sine / pink noise generator, provided to the line test and speaker system testing
- Dual function tune - the FOH or monitor mixer
- Independent phantom power and phase change-over switch
- 4 band EQ 2 band sweep
- 100Hz high-pass filter (HPF)
- With the level of fine-tuning and sharing of input matrix external input
- Recording through the channel direct output port
- Flexible and unrestricted fader of each channel before / after the auxiliary output selector switch
- All the main volume fader with mute button
- Front panel EQ, pre / post selector switch by the custom
- The recorder can access to the left and right channel and monitor channel
- Internal communication signal accessible to all output channels
- Nut fastening potentiometer type circuit board separate installation process
- With 4-pin XLR lamp holder can be inserted light-emitting diode lights
- Dual power supply system with backup function

TECHNIQUE INDEX

Maximum input level	MIC	+34dBu (inc pad)
	CH Line	+34dBu
	Other Line	+20dBu
Maximum output level	XLR	+26dBu
	Jack	+20dBu
Internal headroom	Channels	+20dBu
	Mix	+22dBu
Meters	3 colour LED,quasi peak response	
	Moving coil VU with built-in LED peak indicators	
Sensitivity	0VU=+4dBu at XLR output	
Master meters	12segment -30to+16dB	
Channel meters	4segment -12,0,+6+16dB(5dB before clip)	
Frequency response	20Hz to 50kHz +/-0.5dB	
Mic CMRR at 1kHz	>80dB typical	
THD+N at+14dBu 1kHz	Mic to mix out	<0.003%
Crosstalk at 1kHz	Fader shutoff	>90dB
	Mute shutoff	>88dB
	Inter channel	>90dB

Noise,rms 22Hz to 22kHz	Mic EIN -128dB	
	Residual output noise	<–96dBu (-100dB S/N)
	LR mix noise 24 routed	<–86dBu (-90dB S/N)
	Group mix noise 16 routed	<–86dBu (-90dB S/N)
	Aux mix noise 16 routed	<–92dBu (-90dB S/N)
	Mix noise 24 line 0dB gain	<–86dBu S/N
Channel HPF	12dB/octave below 100Hz	
Mono EQ	HF Shelving+/-15dB,12kHz	
	HM Peak/dip+/-15dB,500HZ to 15kHz,Q=1.8	
	LM Peak/dip+/-15dB,35Hz to 1kHz,Q=1.8	
	LF Shelving+/_15dB,80Hz	
Stereo EQ	HF Shelving+/-15dB,12kHz	
	HM Peak/dip+/-15dB,2.5kHz,Q=1.8	
	LM Peak/dip+/-15dB,250Hz,Q=1.8	
	LF Shelving+/-15dB,80Hz	

KING Professional mixer console



KING-416 / KING-424
KING-432



Back

Mixer
SPIRIT® PROFESSIONAL SOUND SYSTEM | Series

KING Professional mixer console



CHARACTERISTIC

- 32-way max. inputs , 4-way stereo. +48V phantom power supply, independent switch control. High-pass filter selector switch
- Preamplifier with high stability and low noise provide the operator with suitable level dB output
- On each way has, high pass filter, insertion points (INSERT), 4 band frequency scan equalizer with switch selection, 4 band LED pass level indicator, direct output (DIRECT)
- Mute and monitor switch are installed on channels of incoming and output signals. Powerful SOLO tracking system for freely monitoring of mixing output, including outputs of stereo, mono, auxiliary, group and record. Headphone monitoring can be selected as mono or stereo. And both headphone and speaker feature separate level control.
- The intercom system can be transmitted to any output group
- Output channels include 2 mixing stereos (Master L and Master R), 2 auxiliary mixer stereos, Master B (can be switched to 2 stereo mixing and sum outputs), 4 group outputs, 4 monitor outputs, and 4 auxiliary outputs. There are 14 band LEDs for each output
- Outside power supply to reduce background noise

TECHNIQUE INDEX

product model	KING-416	KING-424	KING-432
Input	8 MIC+4 stereo	16 MIC+4 stereo	24 MIC+4 stereo
Aux output/ return	4/8	4/8	4/8
Output group	4+2(A) +2（B）	4+2(A) +2（B）	4+2(A) +2（B）
Parameter equalizer	4 band 2 band scan	4 band 2 band scan	4 band 2 band scan
Frequency response	20Hz-20KHz	20Hz-20KHz	20Hz-20KHz
SNR	＞100dB	＞100dB	＞100dB
Total harmonic distortion	＜0.05%	＜0.05%	＜0.05%
LINE/MIC Input impedance	10KΩ/1.6KΩ	10KΩ/1.6KΩ	10KΩ/1.6KΩ
Output Impedance	75Ω	75Ω	75Ω
Input channel port	XLR/TRS	XLR/TRS	XLR/TRS
Output channel port	XLR/TRS	XLR/TRS	XLR/TRS
power supply	220V/240V AC50~60Hz75W	220V/240V AC50~60Hz 95W	220V/240V AC50~60Hz 120W
size(L×W×H)(mm)	510x568x194/60	720x568x194/60	930x568x194/60
Net weight	16.4kg	22kg	25.8kg

E112/E112A 12 inch compact line array system





passive model

E112/E112A

Features

- Passive two-way 3 drivers components design. 1x12" High quality low frequency ferrite drivers with waterproof treatment , 2x1.4" high-frequency compression drivers 75mm voice coil with waveguide.
- Producing constant horizontal pointing angle of 90°.Maximum 16xE112 can be flying as one stack
- Waterproof 18mm birch wood cabinet. Polyurea coating, anti-scratch
- 2x NLT4 NEUTRIK waterproof plugs
- Standard acquired: GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013

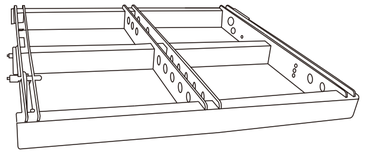
Specifications

Model	E112
Frequence Response (-5dB)	55Hz - 18.5 kHz
Max SPL (1m)	132dB
Rated power LF(RMS/Peak 10ms)	450/1000W
Sensitivity LF(RMS/Peak 10ms)	97dB
Impedance LF	8Ω
Rated power HF(RMS/Peak 10ms)	300/600W
Sensitivity HF (RMS/Peak 10ms)	103dB
Impedance HF	8Ω
Nominal dispersion angle(H)	90°
Splay angel settings	0°- 10° (1° increment)
Drivers	1 x 12" Ferrite LF
	2 x 1.4" exit compression Neodymium
Passive or Active Plugs and Pins	Passive 2 x NLT4 PIN1= LF+ PIN2= LF- PIN3=HF+ PIN4=HF-
Size (LxDxH)mm	600x468x350/270
Weight (kg)	35

Specifications

Model	E112A(active)	E112A(active) Amp module data sheet		Processing module data sheet	
Frequence Response (-5dB)	55Hz - 18.5 kHz	Module No.	3002	DSP type	DSP-D class
Max SPL (1m, free field)	132dB	Channels	2	Channels	1in-3out(2in-3out,1in-2out,2in-2out adjustable)
Rated power LF(RMS/ Peak 10ms)	450/1000W	8Ω output/per CH	1100W	DSP construction	Analog SigmaDSP® 50 MIPS internal
Sensitivity LF(RMS/ Peak 10ms)	97dB	4Ω output/per CH	1600W	AD/DA	Cirrus Logic® 24 bit 48 kHz
Impedance LF	8Ω	2Ω output/per CH	-	Dynamic Range(AD/DA)	120 dB
Rated power HF(RMS/ Peak 10ms)	300/600W	8Ω bridge output/per CH	3200W	THD+N(AD/DA)	< 0.005% (20 Hz - 20 kHz)
Sensitivity HF (RMS/ Peak 10ms)	103dB	4Ω bridge output/per CH	-	Frequence Response	20Hz-20kHz -0.5dB
Impedance HF	8Ω	Working voltage	100V-240V	Max input voltage	1.95 V / +8 dBu
Nominal dispersion angle(H)	90°	Temp	0°- 40° C	Max output voltage	5 V / +16 dBu
Splay angle settings	0°- 10° (1° increment)	Gain	32dB,38dB	S/N ratio	> 116 dB
Drivers	1 x 12" ferrite	Input sensitivity	2.7V	THD+N	< 0.02% (20 Hz - 20 kHz)
	2 x 1.4" exit compression Neodymium	Frequence response	20Hz-20kHz(-1dB) @1W,8Ω	Delay	340 ms input delay，10 ms output delay per channel
	————	SNR	> 112dBA(20Hz-20kHz)	Input EQ	5 parametric equalizers: hi/lo-shelving,
	————	Crosstalk	> 70dB@1kHz		all-pass, band-pass, band-stop, hi/lo-pass
Size (LxDxH)mm	600x468x350/270	THD + N	<0.09% @0.1W to 1/2	Output EQ	Parametric IIR filters: peaking, hi/lo-shelving,
Weight (kg)	35.5		Power(typically <0.05%)		allpass, band-pass, band-stop, hi/lo-pass
		DIM	<0.09% @0.1W to 1/2	Dividing filter	Butterworth, Linkwitz-Riley, Bessel:6dB/oct
			Power(typically <0.07%)		to 48dB/oct (IIR)
		Input Impedance	10 kΩ balanced	Limitator	Peak limiter, RMS limiter,frequency
		Turnover rate	50 V/μs		dependent RMS limiter
		Damping factor	> 500 @ 100Hz	User presets saving	4 saves
		Size (LxDxH)mm	216 x 122 x 80	Port	RS485

Optional accessory:



E112/E112A flying bumper
Size(LxWxH):620x545x80 mm
Weight:20kg



Active model

E212 Passive three way dual 12 inch high output line array system



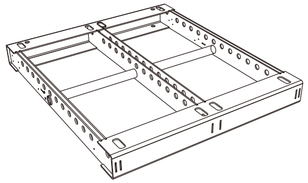


E212

Features:

- Passive three-way 5 drivers components design. 2x12" High quality low frequency ferrite drivers with waterproof treatment , 1 x 10" 76mm voice coil Neodymium Mid frequency driver with horn installed, 2x1.4" high-frequency compression drivers 75mm voice coil with waveguide.
- Producing constant horizontal pointing angle of 90° to control the lower frequency limit Up to 300 Hz,. Maximum 16xE212 can be flying as one stack
- Waterproof 18mm birch wood cabinet. Polyurea coating, anti-scratch
- 2x NLT4 NEUTRIK waterproof plugs
- Standard acquired: GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013

Optional accessory:



E212 Flying bumper

Size (LxWxH): 1141x875x100 mm

Weight: 35 kg

Specifications:

Model	E212
Frequence Response(-5dB)	55Hz - 18.5 kHz
Max SPL(1m)	134dB
Speaker	
Rated power LF(RMS/Peak 10ms)	800/2000W
Sensitivity LF(RMS/Peak 10ms)	98dB
Impedance LF	8Ω
MHF(RMS/Peak 10ms)	450/1200W
Sensitivity MHF (RMS/Peak 10ms)	103dB
Impedance MHF	8Ω
Nominal dispersion angle(H)	90°
Splay angle settings	0°- 7° (1° increment)
Drivers	2 x 12" ferrite 1 x 10" Neodymium 2 x 1.4" exit compression Neodymium
Passive or Active	Passive
Plugs and Pins	2xNLT4 PIN1=LF+ PIN2=LF- PIN3=MHF+ PIN4=MHF-
Size (LxDxH)mm	1100x568x359/289
Weight(kg)	58

Line array System
SPIRIT® PROFESSIONAL SOUND SYSTEM | Series

E3612. Active 2 way 7 drivers system with Germany DSP



E3612

Features:

- excellent performance, high sound pressure level output, integrated handle design, built-in DSP processor, with preset parameters for direct call, stable digital power amplifier.
- Support analog signal input through RJ456 or USB interface for computer software / wireless / remote control operation. Requires power supply voltage 190V-240V
- Original German imported DSP processor, 1 in 2 out DSP linkable with other device, electric power 220V ,600 watts.
- 6x3.25" MF Italian Faital 3F25 driver,1X12" Ferrite magnet 170MM,voice coil 75mm LF driver
- 15mm birch plywood, black textured painting
- Applications for multi-function, auditorium, lecture hall, banquet hall background music, etc
- Standard Acquired: GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013

Specifications:

Model	E3612(Active)
Fre Response (-5dB standard)	42Hz - 18.5 kHz
Max SPL (1m, Free field)	127dB
Sensitivity	96dB
MHF Impedance	5.2Ω
MHF Rated Power (RMS/Peak 10ms)	240/750W
LF Impedance	8Ω
LF Rated Power (RMS/Peak 10ms)	400/1000W
H x V	80°x40°
Drivers	6 x 3.25" MF Italian Faital drivers
	1 x 12" LF
Passive / Active	Active with DSP
Power Supply	220V 50Hz
Electric Power	600W
Size(LxDxH)mm	377x383.7/270/630.5
Weight(kg)	25

EI4602. two way 6 drivers high output line array system

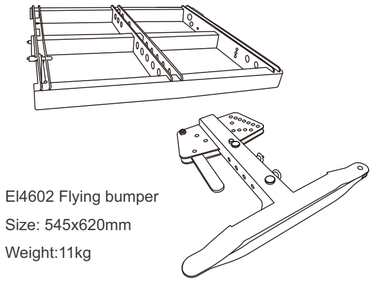


EL4602

Features:

- Two way design
- 4x6.25"ferrite LF drivers，2x1.75" neodymium drivers ， Two Hydra plane wave sounders are connected to the front end to synthesize a 90° x 30° waveguide
- 15mm birch plywood ,textured painting cabinet
- Optional smart rigging kit for fast installing and dismantling
- VT3210 can be rigged or put on the stand
- Suitable for multi-purpose halls, auditoriums, lecture halls, or applications where small and medium-sized sound reinforcement systems are needed
- Standards Acquired：GB\T 12060.5-2011 IEC 60268-5：2007 GB\T 9397-2013

Optional accessory:



EI4602 Flying bumper
Size: 545x620mm
Weight:11kg

Specifications:

Model	EI4602
Finish	black
Plugs	2 Neutrik® NL4
Frequence Response(–3dB)	110-18500Hz
Sensitivity	98dB
Rated Power(RMS/Peak 10ms)	500/1500W
Max SPL	129dB
H x V (–6dB standard)	75°x 30°
LF drivers	4 x6.25-in ferrite
HF drivers	2 x1.75-in Neodymium
Impedance	8Ω
Rigging & put on stand	Yes
Outdoor use	Yes
Size (LxDxH)mm	541x380x337/160
Weight(kg)	22

E3818 . Passive two way 16 drivers line array system

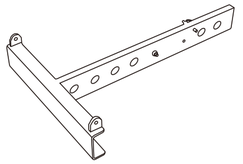


E3818

Features:

- Two way ,16 components design，8x3.25″ Italian Faital 3F25 MF，8X1″ HiFi tweeters。
- Max 16 pieces of E3818 can be flying as one stack
- Standard Acquired GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013

Optional Accessory



E3818 Flying bumper
Size: 330x500mm
Weight: 2.8kg

Specifications

Model	E3818
System	
Fre response (-5dB standard)	130Hz - 18.5kHz
Max SPL (1m)	127dB
Sensitivity	96dB
Impedance	4Ω
Rated power (RMS/Peak 10ms)	400/1200W
H X V	80°x40°
Drivers	8 x 3.25" Faital 3F25 MF
	8 x 1" Hi–Fi silk diaphram tweeters
Passive or Active	Passive
Plugs	2 x NLT4 F/M
Size(LxDxH)mm	308/249x351x420.6
Weight(kg)	13.5

VT 3210 Passive high output four way 5 neodymium drivers line array system

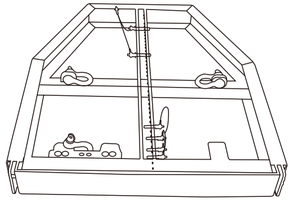


VT3210

Features:

- VT3210 is four-way passive 5 neodymium drivers design
- 2x10″ Neodymium LF drivers,1x8" Neodymium MF driver with horn,2x1.4" 64mm voice coil Neodymium HF drivers with waveguide.
- Producing an 80° horizontal constant pointing sound ,the lower frequency limit to 300 Hz. Max 16 x Vt3210 can be flying as one stack
- Plywood cabinet with polyurea coating，invisiable 2xNLT4 connectors in the back
- Suitable for medium-sized performances, multi-purpose halls, auditoriums, large conferences, mobile and installed sound reinforcement systems
- Starnd Acquired:GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013

Optional Accessory:



Vt3210+ VT118SUB Flying Bumper
Size (L x W x H):675x795x90mm
Weight: 24.2kg

Specifications:

Model	VT3210
Frequence Response (-5dB)	69Hz - 18.5 kHz
Max SPL (1m)	132dB
Sensitivity	99dB
Impedance	8Ω
Rated power (RMS/Peak 10ms)	600/1800W
Nominal dispersion angle (H)	80°
Splay Angle	0°- 14°(1° increment)
Drivers	2 x 10" Neodymium 1 x 8" Neodymium 2 x 1.4" exit compression Neodymium
Passive or Active	Passive
Plugs	2 x NLT4 F/M
Size (LxDxH)mm	700x460x306/191
Weight(kg)	32.5

VT118SUB. 18 inch + 12 inch Cardioid subwoofer

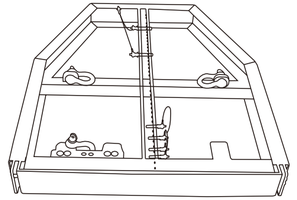


VT118SUB

Features:

- High-performance cardioids subwoofer, can be boosted by single-channel amplifier. 1x 18" ferrite driver in the front, bass reflex design; 1x12” Neodymium driver in the back for reducing the low-frequency reverberation area and provide the most accurate low-frequency reproduction capability.
- VT118SUB could be a very good Low frequency extension for VT3210 ， Rigging ／Stacking with Vt3210 or as individual bass reinforcement
- Birch plywood 18mm ,polyurea coating,with 1xM20 base on the top side for standing a post
- Stardard Acquired:GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013

Optional Accessory:



VT3210、VT118SUB Flying Bumper
Size: 675x795mm
Weight: 24.2kg

Specifications

Model	VT118SUB
Frequence Response(-5dB)	40Hz - 125Hz
Max SPL (1m)	133dB
Sensitivity front	97dB
back	91dB
Impedance	8Ω
Rated power (RMS/Peak 10ms) front 18 inch	800/2400W
back 12inch	1000/3000W
Splay angle setting	0°and 2.5°
Drivers	1 x18" Ferrite
	1 x12" Neodymium
Plugs	2 x NLT4
Size(LxDxH)mm	700x725x600
Weight(kg)	63.5

E215 . high output passive / active line Array system



E215 (Passive)

CHARACTERISTIC

- E215 uses two 15-inch neodymium woofers as a true ultra-low frequency system , designed for high-output and low-frequency extension.
- Its top size, bottom dimensions, and lifting accessories are as same as E208P. The supporting points are also as same as E208P, which can be flexibly integrated into the super woofer need to extend the low frequency response of the full-frequency array.
- Standard Acquired: GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013.

TECHNIQUE INDEX

Model	E215(PASSIVE)
Color	Black
Connect	2 Neutrik® NL4
SPL@10m	126dB 4 Box Array @ 10 Meters
Frequency response(–3dB)	40 - 400Hz
Frequency response(–10dB)	30 - 400Hz
Sensitivity(1W/1M)	100dB Single Box @ 1Meter
Max SPL/1M	130dB Single Box @ 1Meter
Cover(-6dB)	--------
Maximum power	1000 Watts
frequency 10W	2 x5-in
Driver 10W	1000W continuous 3000W peak Watts 30-100Hz
Low impedance	4Ω
Box material	18mm plywood
Hanging	Yes
Size(LxDxH)mm	800 x 880 x 500mm
Weigh	60kg

Dual 8 inch high output passive line array system



E208P (Passive)

CHARACTERISTIC

- E208P is designed as a built-in two-way speaker, which adopts (CCT™) .
- E208P with two 8 " low frequency ferrite drivers, two 1.75 " voice coil neodymium compression drivers, the front-end connection between two Hydra plane wave acoustic generators, synthesizer 90 ° x10 ° waveguide.
- Standard Acquired: GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013.

TECHNIQUE INDEX

Model	E208P (PASSIVE)
Chassis size	203.2mm(8")
Connect	2 Neutrik® NL4
10W driver 2	200W continuous 800W peak 60-2600Hz
SPL@10m	129dB 4 Box Array @ 10Meters
Frequency response(–3dB)	70-18500Hz
Frequency response(–10dB)	65-18000Hz
Sensitivity(1W/1M)	99/112dB Single Box @ 1Meter
Max SPL/1M	128/137dB Single Box @ 1Meter
cover(-6dB)	90°
10W frequency	2 x8-in
10W driver	200W continuous,800W peak Watts 70-2600Hz
High frequency	50W continuous,320W peak Watts 2000-18500Hz
Low impedance	16Ω
Passive mode power	250W 65-18000Hz
Impedance	16Ω
Hanging	Yes
Outdoor	No
Size(LxDxH)mm	800x400x261\215mm
Weight	19kg

E205. high output compact style line array



E205

CHARACTERISTIC

●E205 adopts built-in 2-ways design and coverage control technology(CCT™) .

● With 2x5.5” LF ferrite magnet driver, 1x1.75” HF NdFeb magnet driver, two Hydra plane wave generators attached in the front, E205 could accomplish HxV 90° x 10° waveguide perfectly.

● 15mm birch box with coffee color water paint finish, mesh iron cover (1.2mm thickness) attached acoustic sponge, each round mesh is Φ6mm.

●Standard Acquired: GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013.

TECHNIQUE INDEX

Model	E205
Chassis size	125mm(5")
Connect	2 Neutrik® NL4
10W driver 2	150W continuous,900W peak 90-4000Hz
SPL@10m	115dB 4 Box Array @10Meters
Frequency response(−3dB)	90-18500Hz
Frequency response(−10dB)	80-18000Hz
Sensitivity(1W/1M)	90/112dB Single Box @ 1Meter
Max SPL/1M	115/120dB Single Box @ 1Meter
cover(-6dB)	90°
10W frequend	2 x5-in
10W driver	300W continuous, 900W peak Watts 90-4000Hz
High frequency	50W continuous, 320W peak Watts 2000-18500Hz
Low impedance	16Ω
Passive mode power	200W 90-18500Hz
Impedance	16Ω
Hanging	Yes
Outdoor	No
Size(LxDxH)mm	502x407x155/70mm
Weight	8kg

E15. Passive Line Array System



E−15 (Passive)

CHARACTERISTIC

● Using one 15-inch neodymium woofer as a true ultra-low frequency system, designed for high-output and low-frequency extension, E15's top size, bottom dimensions and lifting accessories are as same as E205. The supporting points are also as same as E205, which can be flexibly integrated into the super woofer need to extend the low frequency response of the full-frequency array.

●Standard Acquired: GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013.

TECHNIQUE INDEX

Model	E-15 (Passive)
Connect	2Aviation plugs NL4
SPL@10m	123dB 4 Box Array @ 10 Meters
Frequency response(−3dB)	40 - 400Hz
Frequency response(−10dB)	30 - 400Hz
Sensitivity(1W/1M)	97dB Single Box @ 1Meter
Max SPL/1M	126dB Single Box @ 1Meter
Cover(-6db) Horizontal	-------
Maximum POWER	500 Watts
10W frequency	21x15-in
10W Driver	500W continuous,3000W peak Watts 30-100Hz
Low impedance	8Ω
Box Material	18mm plywood
Hanging	Yes
Size(LxDxH)mm	502x600x450mm
Weight	30kg

Dual 18 Inch Subwoofer Speaker



E-1218

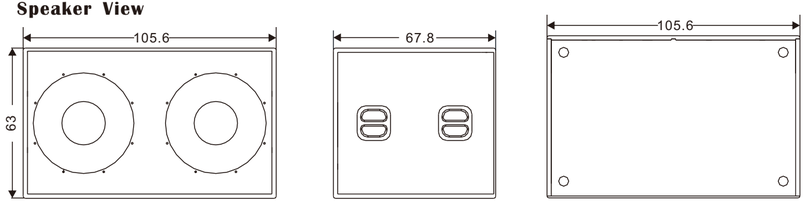
CHARACTERISTIC

- E-1218 uses two 18-inch neodymium woofer as a true ultra-low frequency system, which is designed for high output and low frequency extension; its top size, bottom dimensions, and lifting accessories same as E205. The supporting points can be flexibly integrated into the super woofer need to extend the low frequency response of the full-frequency array.
- Standard Acquired: GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013.

TECHNIQUE INDEX

Model	E-1218
Connect	2Aviation plugs NL4
SPL@10m	124dB 4 Box Array @ 10 Meters
Frequency response(−3dB)	40 - 400Hz
Frequency response(−10dB)	30 - 400Hz
Sensitivity(1W/1M)	100dB Single Box @ 1Meter
Max SPL/1M	130dB Single Box @ 1Meter
Cover(-6dB)	300°
Maximum power	1400 Watts
Frequency 10W	2 x 18-in
Driver 10W	1400W continuous,3000W peak Watts 60-100Hz
Low impedance	4Ω
Box material	18mm plywood, speaker baffle 25mm plywood
Hanging	No
Size(LxDxH)mm	105.6 x 63 x 67.8cm
Weight	76kg

Speaker View



front view　　lateral view　　back view

E series column speaker system



E601/E602/E604/E618



E304+FF112

E308+FF112

E series column speaker system



Features:

- 1x 6.25" ferrite LF driver, 45mm voice coil.
- 1x1.3″ dia. 80 mm ferrite magnet HF driver， 34mm Polyester diaphram with Hydra horn,90° x45° waveguide
- 15mm birch plywood ,anti-scratch Polyurea coatings
- With bolts in the cabinet for rigging or installing
- suitable for auditorium, church, multi-function hall, mobile performance applications etc
- Standard Acquired: GB\T 12060.5-2011 IEC 60268-5: 2007 GB\T 9397-2013



Optional Accessory:

M20 post
For connecting E618 and E601
as a system

Specifications:

Model	E601
Color	Black
Plugs	2x Neutrik® NL4
Fre Response(−3dB)	70-20kHz
Sensitivity(1w/1m)	95dB
Rated Power(RMS/Peak 10ms)	200/400W
Max SPL	121dB
HxV(−6dB standard)	75°x 45°
LF driver	1 x6.25-in
HF driver	1 x1.3-in
Impedance	8Ω
Size(WxHxD)mm	228\113x358x250
Weight(kg)	8.5

E series column speaker system



Features:

- 2x 6.25" ferrite LF driver, 35mm voice coil.
- 1x1.75″ HF driver, Neodymium dia 102 mm magnet,44mm Polyester diaphram, with Hydra horn， 90° x45°waveguide.
- 15mm birch plywood ,anti-scratch Polyurea coatings
- With bolts in the cabinet for rigging or installing
- Suitable for auditorium, church, multi-function hall, mobile performance applications etc
- Standard Acquired: GB\T 12060.5-2011 IEC 60268-5: 2007 GB\T 9397-2013



Optional Accessory:

M20 post

For connecting E618 and E602 as a system

Specifications:

Model	E602
Color	Black
Plugs	2xNeutrik® NL4
Fre Response(−3dB)	70-20kHz
Sensitivity(1w/1m)	98dB
Rated Power(RMS/pEAK 10ms)	350/700W
Max SPL	126dB
H x V(−6dB)	75° x45°
LF driver	2 x6.25-in Ferrite
HF driver	1 x1.75-in Neodymium
Impedance	16Ω
Size (WxHxD)mm	228\113x553x250
Weight (kg)	13

E series column speaker system



E604

Features:

- 4x 6.25" ferrite LF driver, 44mm voice coil.
- 2x1.75″ HF driver, Neodymium dia 102 mm magnet, 44mm Polyester diaphram, with Hydra horn, 90°x45°waveguide.
- 15mm birch plywood ,anti-scratch Polyurea coatings
- With bolts in the cabinet for rigging or installing
- Suitable for auditorium, church, multi-function hall, mobile performance applications etc
- Standard Acquired: GB\T 12060.5-2011 IEC 60268-5: 2007 GB\T 9397-2013

Optional Accessory:

M20 post
For connecting E618 and E604 as a system

Specifications:

Model	E604
Color	Black
Plugs	2xNeutrik® NL4
Fre Response(−3dB)	70-20KHz
Sensitivity(1w/1m)	99dB
Rated Power(RMS/Peak 10ms)	600/1200W
Max SPL	130dB
HxV(−6dB)	75° x45°
LF driver	4 x6.25-in Ferrite
HF driver	2 x1.75-in Neodymium
Impedance	8Ω
Size(WxHxD)mm	228\113x1000x250
Weight(kg)	22.2

Column speaker
SPIRIT® PROFESSIONAL SOUND SYSTEM | Series

E series column speaker system



E618

Features:

- 1x18″ LF driver,dia. 220mm ferrite magnet，100mm voice coil
- 18mm birch plywood ,anti-scratch polyurea coating
- High compression phase coupling technology, high bass dynamics and long range
- Standard Acquired：GB\T 12060.5-2011 IEC 60268-5 2007 GB\T 9397-2013

Optional Accessory:

M20 post
For connecting the E618
with E601/E602/E604 as a system

Specifications:

Model	E618
Fre response	35~300Hz
Sensitivity(1w/1m)	96dB
Rated power & Impedance	600W/8Ω
Peak power(W)	1800W
Max SPL (1M)	126dB
(H×V)	-------
Passive or Active	Passive
Size(WxHxD)mm	600x600x700
Weight(kg)	48.5

Column Speaker



E304 / E304B (white)

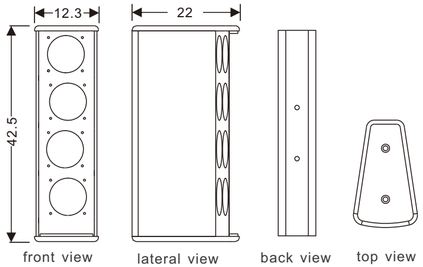
CHARACTERISTIC

- 4X3" faital 3F25 full range unit , Ferrite magnet.
- 15mm birch box with coffee white color water paint finish, 1.2 mm thickness iron mesh cover attached with acoustic sponge.
- Assemble ways: Rigging, mounting on wall , or supporting by pole available
- Suitable for auditorium, church, multiple-function room, touring show sound solution.
- Standard Acquired: GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013.

TECHNIQUE INDEX

Model	E304/E304B
Units	4 x 3" full range Italian speakers
Rate Power	60W(AES)
Frequency Response	120Hz – 19kHz
Impedance	8
Sensitivity	94dB
SPL	110dB Continuous/120dB Peak
Coverage (horizontal)	90
Coverage (vertical)	45
Size(LxDxH)mm	12.6\7.6x42.5x22
Weight(kg)	5

Speaker View



Column Speaker



E308 / E308B (white)

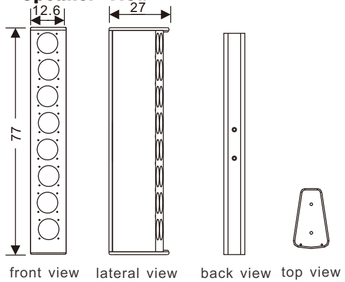
CHARACTERISTIC

- 8X3" Italian 3F25 full range unit , Ferrite magnet.
- 15mm birch box with coffee color white water paint finish, 1.2 mm thickness iron mesh cover attached with acoustic sponge.
- Assemble ways: Rigging, mounting on wall, or supporting by pole available.
- Suitable for auditorium, church, multiple-function room, touring show sound solution.
- Standard Acquired: GB\T 12060.5-2011 IEC 60268-5:2007 GB\T 9397-2013.

TECHNIQUE INDEX

Model	E308/E308B
Units	8x 3"full range Italian speakers
Rate Power	120W(AES)
Frequency Response	120Hz – 19kHz
Impedance	4
Sensitivity	96dB
SPL	115dB Continuous/121dB Peak
Coverage (horizontal)	90
Coverage (vertical)	45
Size(LxDxH)mm	12.6\7.6x77x27
Weight(kg)	9.5

Speaker View



FF. passive & Active 12 inch subwoofer for E304 / E308 column speaker



FF112 Features:

- 15mm birch plywood
- Black color textured painted finish
- With bolts in the cabinet for rigging or installing
- Compact design,with bass lifting, high sound pressure level and small distortion.
- 15mm birch plywood, textured painting
- Mobile or fixed installations for applications like auditorium, church, multi-function hall,wedding party etc

FF112A features:

- Same features like FF112
- Built-in DSP processor,amplifier module,with presets
- Analog signal input support
- USB port for connecting the computer,can be remoted and operated via software
- The system consists of:
  2xFf112 or FF112A subwoofers
  2xE304 or E308 column speakers
  2x M20 Post

Specifications:

FF112(Passive) / FF112A(Active)

Model	Ff112 (Passive)	FF112A(Active)
Driver	1x 12″ ,75 voice coil MLF driver	1x 12″ ,75 voice coil MLF driver
Rated Power	400W	400W
Impedance	8Ω	8Ω
Sensitivity	94 dB	94 dB
Fre Response	40Hz -1500Hz +/-3dB	40Hz -1500Hz +/-3dB
Max SPL	120dB continuous/130dB Peak	120dB continuous/130dB Peak
Horizontal	360°	360°
Vertical	360°	360°
Size(WxHxD)mm	500x360x400	500x360x400
Weight(kg)	22.3	23.8
Output		2-way system
Amp module output		8OHM 240W+600W / 4OHM 480W+1200W
Fre Response		20-20kHz
S/N ratio		90dB
Distortion		<0.1%20Hz-20kHz
Frequence Load		70~85kHz(PWM)x1
amp frequence respsonse		>5kHz
Amp frequence load		392kHz(d5%)
Input impedance		Balance input:40KOmega /Unbalance input:20KOmega
Input sensitivity		0.775v
DSP		1in-2out DSP
Power supply		AC220V/50~60Hz or AC110v/50~60Hz
Power		1200W

Optional Accessory

M20 Post
For connecting Ff112 with E304 or E308 as a system

SPIRIT® PROFESSIONAL SOUND SYSTEM | Series

EX series passive two way speakers



The EX Series Speakers are designed to meet the speaker's versatility, ruggedness, ergonomics, yet cost-effective and versatile use.

With highly efficient, big dynamic range, bright treble and vocal sound.Perfect sound solution for most of fixed installations and mobile performances and more applications.

EX passive two way 8 inch speaker



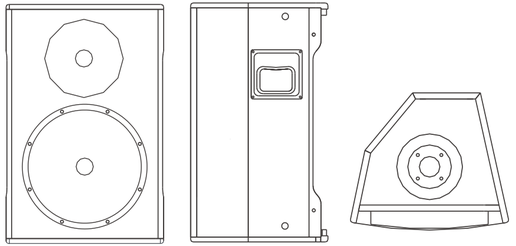


Specifications:

Model	Ex8 (8 inch two way)
Fre Response	80Hz-18.5kHz
Sensitivity	94dB(1w/1m)
Rated Power	150W/8Ω
Max SPL	116dB
H x V	90°（H）×60°（V）
Size(WxHxD)mm	270 x 375 x 235
Weight(kg)	7.5

Configuration:

Drivers	1x8"LF ferrite Φ140 magnet, 2" voice coil，120W/8Ω,1x3"HF driver
Horn	–––––
Cabinet material	18mm Particle board
Finish	PET textured paint
Grill	1.2mm mesh iron net
Plugs	2 x NL4 Speakon
Type	passive two way built-in crossover full frequence speaker



Front　　Side　　TOP

EX passive two way 10 inch speaker



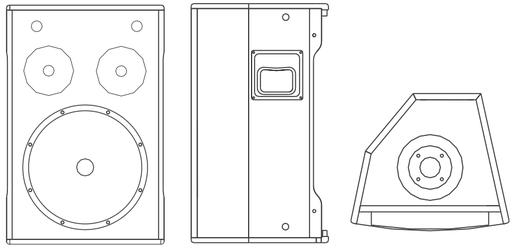
EX10

Specifications:

Model	EX10(10 inch two way)
Fre Response	70Hz-18.5kHz
Sensitivity	96dB(1w/1m)
Rated Power	200W/8Ω
Max SPL	119dB
H x V	90° (H) ×60° (V)
Size(WxHxD)mm	305 x 460 x 285
Weight(kg)	11.1

Configuration:

Drivers	1x10" LF driver Φ140 ferrite magnet , 2" voice coil,.2x3" HF driver
Horn	————
Cabinet material	18mm Particle board
Finish	PET textured paint
Grill	1.2mm mesh iron net
Plugs	2 x NL4 Speakon
Type	10 inch two way built-in crossover full range frequence speaker



Front Side TOP

EX passive two way 12 inch speaker



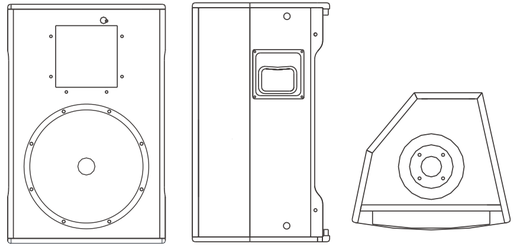
EX12

Specification:

Model	Ex12 (12 inch two way)
Fre Response	60Hz-18.5kHz
Sensitivity	95dB(1w/1m)
Rated power	300W/8Ω
Max SPL	120dB
H x V	90° (H) ×60° (V)
Size(WxHxD)mm	334 x 582 x 334
Weight(kg)	25

Configuration:

Drivers	1x12" LF Φ156 magnet, 65mm voice coil， 260W/8Ω 1x1″ Φ80 magnet 1.4"voice coil 40W/8Ω
Horn	engineering-plastics
Cabinet material	18mm Particle board
Finish	PET textured paint
Grill	1.2mm mesh iron net
Plugs	2 x NL4 Speakon
Type	12 inch two way built-in crossover full range frequence speaker



Front Side TOP

EX passive two way 15 inch speaker



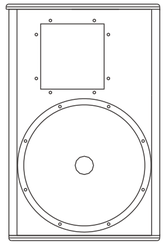
EX15

Specification:

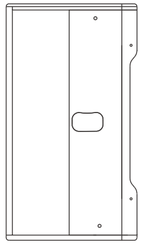
Model	Ex15 (15 inch two way)
Fre Response	55Hz-18.5kHz
Sensitivity	96dB(1w/1m)
Rated Power	350W/8Ω
Max SPL	121dB
H x V	90° (H) ×60° (V)
Size(WxHxD)mm	440 x 690 x 381
Weight(kg)	32

Configuration:

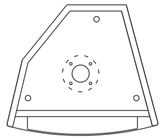
Drivers	1x15" LF Φ156magnet，65mm voice coil，320W/8Ω 1x1.75" HF Φ120magnet，1.75" voice coil，40W/8Ω
Horn	engineering-plastics
Cabinet material	18mm Particle board
Finish	PET textured paint
Grill	1.2mm mesh iron net
Plugs	2 x NL4 Speakon 15 inch two way built-in crossover full range frequence speaker



Front



Side



TOP

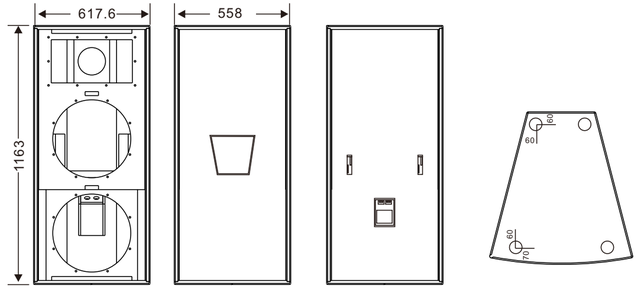
EX. Professional Entertainment Speaker



EX-215

TECHNIQUE INDEX

LF Unit	**Sy15-1 Φ180 Ferrite Magnet 3"voice Coil,300w/8ω**
HF Unit	Sy44-8b Φ120 Ferrite Magnet 1.75"voice Coil,1.",40W/8ω
Horn Material	Engineering Level Plastic
Enclosure Material	18mm MDF or Plywood
Finished	Textured Paint
Cover	Φ1.2mm Mesh Iron Cover
Connectors	2 X Nl4 Speakon
Frequency Range	50Hz-18.5kHz
Sensitivity	97dB/W/M
Rated Power	650W/4ω
Max Sound Pressure Level	125dB
Coverage	80°(H)×50°(V)
Size:(L×D×H)mm	560×496×1070
Weight	47kg



EF. Conference Room Speaker



CHARACTERISTIC

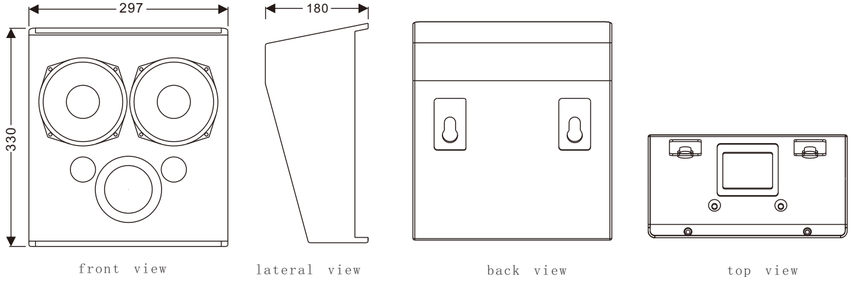
Born for Conference Room / Hall sound solution, unique design allows it easy to set up by simply hooking on wall, neat and convenient. It is particularly suitable for high-end Conference Room / Hall / Teaching Room etc. (seamlessly driven by SPIRIT ME-2150A power amp and others).

TECHNIQUE INDEX

Model	EF-205
Frequency Range	110Hz-18.5kHz
Sensitivity	90dB/w/m
Rate Power	25W/16Ω
Coverage (V / H)	60°x 60°
Size（WxHxD)cm	29.7x33x18
Weight（kg)	4.7

EF-205

Speaker View



EF. Conference Room Speaker



CHARACTERISTIC

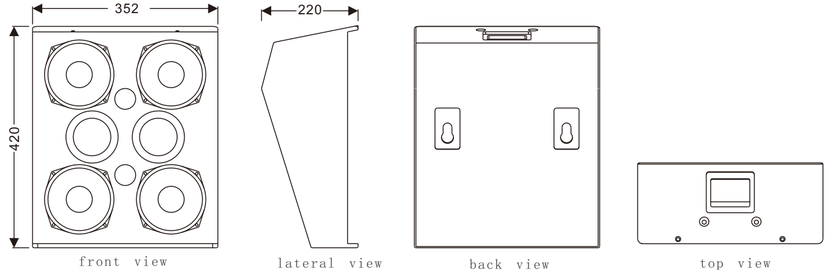
Born for Conference Room / Hall sound solution, unique design allows it easy to set up by simply hooking on wall, neat and convenient. It is particularly suitable for high-end Conference Room / Hall / Teaching Room etc. (seamlessly driven by SPIRIT ME-2150A power amp and others).

TECHNIQUE INDEX

Model	EF-405
Frequency Range	110Hz-18.5kHz
Sensitivity	93dB/w/m
Rate Power	100W/8Ω
Coverage (V / H)	60°x 60°
Size（WxHxD)cm	35.2x42x22
Weight（kg)	7.2

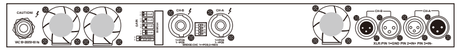
EF-405

Speaker View



E. series 1 U Class D two channels power amplifier





Back

E-21

E-22

Features

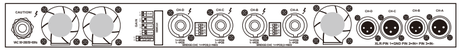
- 1U cabinet
- Reliable running with 2 Ω loading
- Auto Power Factor Correction
- Full protections (VHF /DC /over current/short-circuits/soft start / Main power fuse)
- 90~260V AC, 50~60 Hz , universal voltage
- High output, fast heat-sinking

TECHNIQUE INDEX

Model No.	E-21	E-22
8Ω/Stereo	2×1000W	2×2000W
4Ω/Stereo	2×1700W	2×3400W
2Ω/Stereo	2×2890W	2×4760W
16Ω/Bridging	1×2000W	1×4000W
8Ω/Bridging	1×3400W	1×6800W
4Ω/Bridging	1×5780W	1×11560W
RMS outputpower(THD=1%,1kHz)	89.4V	126.5V
Input Sensitivity	38dB, 35dB, 32dB, 29dB	41dB, 38dB, 35dB, 32dB
THD+N	0.01% (10% Rated power output)	
IMD-SMPTE	0.01% (10% Rated power output)	
DIM30	0.01% (10% Rated power output)	
Crosstalk suppression	≥90 dB (20 Hz ~1 kHz)	
Frequency response	±0.2dB,10% Rated power output, 8Ω (20Hz~20 kHz)	
input impedance	20kΩ (Balnace) ,10kΩ (unbalance)	
Damping factor	≥500,8Ω (20Hz~200Hz)	
Signal to noise ratio (A credit 20Hz-20KH2)	≥109dB	≥112dB
Power supply	90~260V AC, 50~60 Hz	
Protections	VHF / DC / over current / short-circuits / soft start / Main power fuse	
Size(L×D×W)mm	483x370x44mm	
Net weight	9kg/ 10.5kg	

E. series 1 U Class D Four channels power amplifier





Back

E-41

Features

- 1U cabinet
- Reliable running with 2 Ω loading
- Auto Power Factor Correction
- Full protections (VHF /DC /over current/short-circuits/soft start / Main power fuse)
- 90~260V AC, 50~60 Hz, universal voltage
- High output, fast heat-sinking

TECHNIQUE INDEX

Model No.	E-41
8Ω/Stereo	4×1000W
4Ω/stereo	4×1700W
2Ω/stereo	4×2890W
16Ω/Bridging	2×2000W
8Ω/Bridging	2×3400W
4Ω/Bridging	2×5780W
RMS outputpower (THD=1%,1kHz)	89.4V
Input Sensitivity	38dB, 35dB, 32dB, 29dB
THD+N	0.01% (10% Rated power output)
IMD-SMPTE	0.01% (10% Rated power output)
DIM30	0.01% (10% Rated power output)
Crosstalk suppression	≥90 dB (20 Hz ~1 kHz)
Frequency response	±0.2dB,10% Rated power output，8Ω (20Hz~20 kHz)
Input impedance	20kΩ, balance),10kΩ(unbalance)
Damping factor	≥500, 8Ω(20Hz~200Hz)
S/N ratio (A credit 20Hz-20KH2)	⩾109dB
Power supply	90~260VAC, 50~60 Hz
Protections	VHF /DC /over current /short-circuits /soft start / Main power fuse
Size(L×D×W)mm	483x370x44mm
Net Weight	9KG

Conference Transmitter



UG-804



CHARACTERISTIC

- The use of stable PLL phase-locked frequency oscillation circuit
- The default of 10 groups of non-interfering frequency group. 300 tuning frequency selectable per channel
- The powerful CPU control and tone code noise lock dual mute controls , computer equipment, karaoke machines can be avoided, such as interference
- Infrared frequency can be quickly and accurately locked transmitter frequency
- Control electronic volume output, the operation is clearer and more intuitive.

TECHNIQUE INDEX

Wireless Receiver

Carrier frequency	UHF610~920MHz
Number of channels	four-channel
Modulation Mode	FM
Effective working distance	150 meters
Oscillation mode	PLL phase-locked frequency synthesizer
Sensitivity	The degree of offset is equal to 25KHz, Input 6dBv, S/N>60dB
Maximum deviation	±45kHz
Comprehensive S/N ratio	105dB
Comprehensive T.H.D	<0.7% @ 1KHz
Frequency response	45Hz~18KHz ±3dB
Supply	DC 12V~16V 10W
Size(LxDxH)mm	430 x 190 x 44
Weight(kg)	2.07kg

Conference Transmitter

Carrier frequency	UHF610~920MHz
Oscillation mode	PLL phase-locked frequency synthesizer
Harmonic radiation	<-65dBm
Maximum deviation	±45kHz
capsule	Condencer
RF power output	15MW
Battery	Aax2
Current consumption	<100mA
Continuous working time	12 hours

UHF Microphone



UG-802

CHARACTERISTIC

- Authentication, to prevent disturbed and string frequency
- The receiver transmitter battery can be displayed in real time, easy to manage
- A stable PLL phase-locked frequency oscillation circuit.
- By default, each channel 32 UHF frequencies 300 tuning frequency selectable
- Automatically select information to a minimum so that the receiver interruption
- The powerful CPU control and tone code noise lock dual mute controls, computer equipment, karaoke machines interference can be avoided
- Infrared frequency, fast and accurately locks the frequency of the transmitter
- Electronic volume output control, clear and intuitive operation

TECHNIQUE INDEX

Wireless Receiver

Carrier frequency	UHF610~920MHz
Number of channels	dual-channel
Modulation Mode	FM
Effective working distance	150 meters
Oscillation mode	PLL phase-locked frequency synthesizer
Sensitivity	The degree of offset is equal to 25KHz,
	Input 6dBv, S/N>60dB
Maximum deviation	±45kHz
Comprehensive S/N ratio	105dB
Comprehensive T.H.D	<0.7% @ 1KHz
Frequency response	45Hz~18KHz ±3dB
Supply	DC 12V~16V 10W
Output connector	XLR parallel and 6.3 parallel socket
size(LxDxH)mm	420x183x44
Weight(kg)	1.63kg

Handheld Transmitter

Carrier frequency	UHF610~920MHz
Oscillation mode	PLL phase-locked frequency synthesizer
Harmonic radiation	<-65dBm
Maximum deviation	±45kHz
capsule	Dynamic
RF power output	15MW
Battery	Aax2
Current consumption	<90mA
Continuous working time	12 hours
Weight(g)	350g(AAx2)

Application Wiring Diagram

