Power & Grace

Spirit Pro Audio System Manufacturer

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CATALOGUE

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.

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SP–16 DIGITAL MIXER



SP-16



CHARACTERISTIC

The XR16 has 16 inputs and 6 mixer busses for Ipad and Android tablet control. Suitable for live sound reinforcement and studios, the XR16 has 8 MIDAS Mic preamplifiers and built-in wireless routing module for wireless remote control with an ultra-low latency, 16x16 bidirectional 2-channel USB audio interface, it is an excellent digital mixing / digital recording mixer.
You can freely mix and control all the parameters in the studio or Live Show by simply loading the application on IOS, Android or PC. The XR16 enjoys excellent design, exquisite workmanship, competitive price as well as outstanding performance.

FEATURES

- 8 programmable mic preamp which provides extraordinary sound effects
- WIFI mode available, no need additional routing
- 16 X 16 channel, two-way USB interface, can be connected with the PC to achieve 2-track recording;
- Four optional stereo / dual-channel effects engines offer a wide range of effects, including high-end analog effects such as Lexicon480L, PCM70, EMT250 and Quantec QRS
- Channel and bus balanced with 100 real-time analyzers
- With rack handle, collision protection design
- 4 auxiliary sockets, main channel L/R bus sockets, full dynamic processor, 6-band parameters or 31-band graphics equalization
- With 4 TRS auxiliary output, 2 XLR main output and a monitoring headphone jack
- 40-bit floating-point DSP with "unlimited" dynamic range, almost no overload and latency
- MIDI input and output interface
- Internal switching power supply, with low noise, low power consumption
- Free IOS, Android and PC / MAC / LINUX applications are available for download for remote control via WIFI / LAN.
- Our commitment to the future will continue to update the firmware and provide free download

Supports Ipad / Android tablet control of 16 digital mixer, with 8 MIDAS classic preamp, built-in WIFI module to support wireless control, front panel USB2.0 interface supports multiple input to output

X AIR Mixer Series Specifications	SP 16	SP 12
Processing		
Number of processing channels	16 input channels, 1 stereo USB return channel, 4 stereo FX return channels, 6 aux buses, main LR	16 input channels, 1 stereo USB return channel, 4 stereo FX return channels, 6 aux buses, main LR
Internal effects engines	4 true stereo	4 true stereo
Signal processing	40-bit floating point	40-bit floating point
A/D-D/A conversion (Cirrus Logic A/D CS5368, D/A CS4385)	24-bit @ 44.1 / 48 kHz, 114 dB dynamic range	24-bit @ 44.1 / 48 kHz, 114 dB A/D dynamic range
Analog I/O latency*	0.8 ms	0.8 ms
Connectors		
Programmable mic preamps, designed by MIDAS	8 XLR/TRS combo jacks, balanced	4 XLR/TRS combo jacks, balanced
Line inputs	8 TRS, balanced	8 TRS, balanced
Main outputs	2 XLR, balanced	2 XLR, balanced
Aux outputs	4 XLR, balanced	2 TRS, balanced
Phones outputs	1 TRS	1 TRS
MIDI inputs / outputs	1/1 DIN	1/1 DIN
Ethernet	1 RJ45	1 RJ45
USB port	Type A	Type A
Mic Input Characteristics		
Preamp design	MIDAS	MIDAS
THD + noise, 20 dB gain, 0 dBu out	< 0.005%, A-weighted	< 0.005%, A-weighted
Phantom power, switchable per input	48 V	48 V
Equivalent input noise level, XLR (input shorted)	-128 dBu, A-weighted	-128 dBu, A-weighted
CMRR, XLR, @ 20 dB gain (typical)	>60 dB	>60 dB
CMRR, XLR, @ 40 dB gain	>65 dB	>65 dB
Input/Output Characteristics		
Frequency range, @ 48 kHz sample rate, 0 dB to -1 dB	10 Hz - 22 kHz	10 Hz - 22 kHz
Dynamic range, analog mic in to analog out (typical)	105 dB	104 dB
A/D dynamic range, mic preamp to converter (typical)	109 dB	109 dB
D/A dynamic range, converter and output	108 dB	108 dB
Cross talk rejection @ 1 kHz, adjacent channels	90 dB	90 dB
Mic input impedance XLR jack, unbal. / bal.	5 kΩ / 10 kΩ	5 kΩ / 10 kΩ
Non clip maximum input level, XLR	+23 dBu	+23 dBu
Hi-Z input impedance TRS jack, unbal. / bal.	1 MΩ / 2 MΩ	1 MΩ / 2 MΩ
Line input impedance TRS jack, unbal. / bal.	20 kΩ / 40 kΩ	20 kΩ / 40 kΩ
Non clip maximum input level, TRS	+21 dBu	+21 dBu

X AIR Mixer Series Specifications	SP	SP 12
Output Characteristics		
Output impedance, XLR, unbal. / bal.	50 Ω / 50 Ω	50 Ω / 50 Ω
Output level, XLR, nom./max.	+4 dBu / +16 dBu	+4 dBu / +16 dBu
Output impedance, TRS, unbal. / bal.	50 Ω / 50 Ω	50 Ω / 50 Ω
Output level, TRS, nom./max.	+4 dBu / +16 dBu	+4 dBu / +16 dBu
Phones output impedance / level	40 Ω / +35 dBm (stereo)	40 Ω / +35 dBm (stereo)
Residual noise level, XLR and TRS	-92 dBu, A-weighted	-92 dBu, A-weighted
WLAN Module		
Antenna	External, SMA connector, 50 Ω	External, SMA connector, 50 Ω
Access Point, number of clients	Max. 4	Max. 4
IEEE 802.11 b/g standard	2.4 GHz	2.4 GHz
Frequency Range	2,412-2,462 MHz	2,412-2,462 MHz
WLAN channels (Wifi Client, Access Point)	1-11 / 1-11	1-11 / 1-11
Max Output Power	19 dBm (802.11b) / 18 dBm (802.11g)	19 dBm (802.11b) / 18 dBm (802.11g)
Power		
Switch-mode power supply	Autorange 100-240 V, (50/60 Hz)	Autorange 100-240 V, (50/60 Hz)
Power consumption	30 W	30 W
Physical		
Standard operating temperature range	5°C – 40°C (41°F – 104°F)	5°C – 40°C (41°F – 104°F)
Dimensions	333 x 149 x 140 mm (13.1 x 5.9 x 5.5 in)	333 x 149 x 95 mm (13.1 x 5.9 x 3.7 in)
Weight	3.0 kg (6.6 lb)	2.4 kg (5.3 lb)

* including all channel and bus processing, excluding insert effects

MX Series Analog Audio Mixer






MX-10FX/MX-14FX/MX-16FX

CHARACTERISTIC

- 8 mono+2 stereo / 10 mono+2 stereo / 14 mono+2 stereo channel
- LR main mix/ 2 AUX sends
- Responsive 3 band EQ
- Individual phantom power
- Channel and master meters
- Per channel pre/post fader aux switching
- 60mm dust protected faders
- 2-Track monitoring and replay to LR
- Headphones and local monitor outputs
- Dedicated stereo, peak-retaining monitor meters
- Electronically balanced XLR outputs with +26dBu drive capability
- Preamp +34dBu maximum input capability for mic or line
- Ultra low noise mix head amp design
- 7-band graphic EQ
- 24bit DSP effect processor
- MP3 player/recorder with concise human-machine interactive interface
- Internal power supply
- Metal jacks, gold-plated XLRs, sealed pots and switches

TECHNIQUE INDEX

Model	MX-10FX	MX-14FX	MX-16FX
Line Channel	8 mono+2 stereo	10 mono+2 stereo	12 mono+2 stereo
Channel EQ	3 BAND		
AUX Output	2		
EFFECT	24bit DSP effect processor		
Main EQ	7 BAND		
Gain control	MIC +34dBu /Line+26dBu		
Phantom Power	48V DC		
Faders	60mm dust protected faders		
Other functions	2-Track monitoring and replay to LR, Headphones and local monitor outputs, MP3 player/recorder		

Powered Audio Mixer

Features:

- 6/8/10/14 channels mixer with plastic case
- with 99/dual 99 DSP effect
- with MP3,USB, Bluetooth
- with +48v phantom power
- with 5 band/7 band/9 band/dual 9 band main EQ



PMX-6 C500



PMX-6 C500 MIC





PMX-6 C500 MIC



PMX-10 C700
PMX-10 C1200



PMX-14 C700
PMX-14 C1200

TECHNIQUE INDEX

Model	PMX-6 C500	PMX-6 C500 MIC	PMX-8 C700	PMX-8 C1200	PMX-10 C700	PMX-10 C1400	PMX-14 C700	PMX-14 C1200
Line channel	6 mono	6 mono	8 mono	8 mono	6mono+2stereo	6mono+2stereo	6mono+4stereo	6mono+4stereo
EFFECT	99 DSP	99 DSP	99 DSP	99 DSP	dual 99 DSP	dual 99 DSP	99 DSP	99 DSP
Main EQ	5 Band	5 Band	7 Band	7 Band	7 Band	7 Band	Dual 9 band	Dual 9 band
Phantom Power	48V DC	48V DC	48V DC	48V DC	48V DC	48V DC	48V DC	48V DC
Power amplifier output max power	250W X 2 (8Ω)	250W X 2 (8Ω)	350W X 2 (8Ω)	600W X 2 (8Ω)	350W X 2 (8Ω)	600W X 2 (8Ω)	350W X 2 (8Ω)	600W X 2 (8Ω)
Other function	MP3, USB,Bluetooth	MP3, USB, Bluetooth, 2 wireless mics	with MP3, USB, Bluetooth					
Case Material	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic

PMX Series Powered Mixer

PMX-6 / PMX-8 /PMX-12 / PMX-16

With USB, Bluetooth, and MP3 inputs, built-in amplifier

MX-6 / MX-8 /MX-12 / MX-16

With USB, MP3 inputs



PMX-6/PMX-8
PMX-12/PMX-16



MX-6/MX-8
MX-12/MX-16

FEATURES

- 6, 8, 12 and 16 channels microphone inputs
- Each channel has -20dB attenuation for easy adjustment of music quality
- With Neo-classical "British" 3-band equalizer for warm sound.
- With auxiliary transmission, auxiliary return function
- Dual-channel independent control of 7-segment EQ
- Using 16 kinds of digital display digital effects to make the sound especially pleasant, suitable for a variety of scenes
- With display MP3 player, beautiful design, excellent sound quality
- With Built-in power amplifier at 2*350W at 4 ohm
- with 48V Phantom power supply

Models start with "P" are with built-in power amplifier.

TECHNIQUE INDEX

Model	MX-6	MX-8	MX-12	MX-16
Channel EQ	3 BAND			
AUX Output	1			
Return	1			
EFFECT	16/99 two digital effects			
Main EQ	7 BAND			
Main OUT	1 Stereo			
Phantom Power	48V DC			
Total harmonic distortion	< -0.1%			
Frequency response	20Hz-20KHz +1dB/-3dB			
S/N	-75db			
Residual output noise	<-80dBu			
Gain control	MIC 35dB(20Db-60dB)/Line 20dB(20dB-60dB)			
Headphone output power	150mW(1KHz, THD=0.5%, 200Ω)			
Maximum output level	18dBm(1KHz,THD=0.5%)			
Power consumption	35W			

Model	PMX-6	PMX-8	PMX-12	PMX-16
Line Channel	6	8	12	16
Channel EQ	3 BAND			
AUX Output	2			
Return	1			
EFFECT	16 effects			
Main EQ	7 BAND			
Main OUT	1 Stereo			
Phantom Power	48V DC			
Total harmonic distortion	< -0.1%			
Frequency response	20Hz-20KHz +1dB/-3dB			
S/N	-75db			
Residual output noise	<-80dBu			
Gain control	MIC 35dB(20dB-60dB)/Line 20dB(20dB-60dB)			
Power consumption	/			
Headphone output power	150mW(1KHz, THD=0.5%, 200Ω)			
Maximum output level	18dBm(1KHz,THD=0.5%)			
Power amplifier output maximum power	350W(4Ωx2)			

MG Series Audio Mixer

CHARACTERISTIC

These 32-input and 24-input models are suitable for serious live sound applications in which a substantial number of sources must be handled efficiently.





MG32/14FX
MG24/14FX

CHARACTERISTIC

- 24MIC + 4stereo line input,16MIC +4 stereo line input channels
- 14Master lines(stereo 4 groups.6aux and 2 effect processors)
- Low noise, high precise microphone preamplifier
- Phantom power switch and insert jack for input/output
- 3-band center EQ with a swept mid and HPE
- Indicator lights ON/OFF switch
- Double SPX DSP Effect processor
- Mono channels output Swept LPE
- Talker-talker input
- Light is ON/OFF switch
- Double SPX digital effects

TECHNIQUE INDEX

Model	MG32/14FX	MG24/14FX
Input Channel	24 mono+4 stereo	16 mono+4 stereo
Channel EQ	3 BAND	
EFFECT	Dual SPX digital effects	
Buses	14	
Phantom Power	Switchable	
Level Meters	12-segment	
Maximum size (W × H x D)	1027 x 140 x 551 mm	819 x 140 x 551 mm
Weight	24 kg	20 kg

MG Series Audio Mixer

FEATURES

- 16 input channels, 8 channels mono + 4 stereo.
- 10 high performance microphone amplifiers with phantom power switch.
- The microphone input channel contains a compressor knob.
- All microphone inputs are equipped with a three-stage channel equalizer and HPF.
- 7 buses (3 auxiliary, 4 groups).
- Built-in SPX effects (MG166CX-USB only).
- Excellent 60mm fader and illuminated ON/OFF switch.
- Lightweight and durable body design.
- Bright Meters for Visual Level Monitoring
- Work with bundled CUBASE AI4 for easy and fast digital recording and editing.



MG166CX-USB

TECHNIQUE INDEX

Model	MG166CX-USB
Input Channel	8 mono+4 stereo
Channel EQ	3 BAND
Main EQ	dual 7 BAND
EFFECT	Built-in SPX effect
Buses	7 buses (3 auxiliary, 4 groups)
Phantom Power	48V DC
Effect Level Monitor	5 Band
Total Harmonic Distortion	Less than 0.1 % (THD+N) 20 Hz - 20 kHz @ +14 dBu (ST OUT)
Power Consumption	35W
Maximum size (W × H x D)	478 mm x 105 mm x 496 mm
Weight	5.5kg

MG Series Audio Mixer

FEATURES

- 12 channels, 4 auxiliary channels, 6 XLR microphone interfaces
- With Phantom power supply
- With high quality Neutrik interfaces
- With built-in compressors in the first 4 microphone channels
- Equipped with 3-band EQ and high-pass filtering for all channels
- ON button with backlight on each fader
- Open/close channel
- Meter with 12 segments
- Built-in SPX DSP effects
- Built-in digital SPX multi-effect processor.
- High-performance microphone preamplifiers with switchable phantom power.
- 3-band channel EQ and high-pass filters.
- Return level controls for the AUX and STEREO buses.
- Bright meters for visual level monitoring.
- Rack mountable.



MG124CX

TECHNIQUE INDEX

Model	MG124CX
Input Channel	6 mono+2 stereo
Channel EQ	3 BAND
EFFECT	Built-in SPX effect
Buses	4 buses
Phantom Power	48V DC
Level Meters	12-segment
Faders	Smooth 60-millimeter
Total Harmonic Distortion	Less than 0.1 % (THD+N) 20 Hz - 20 kHz @ +14 dBu (ST OUT)
Power Consumption	30W
Maximum size (W × H x D)	346.2 mm x 86.1 mm x 436.6 mm
Weight	3.2kg



MG Series 8 Channel Mixing Console Stereo Mixer With Digital effects

FEATURES

- Small but Sophisticated
- Flexible 8 or 10 Input Channel Configurations
- Comprehensive, Easy-access Connector Panel
- Four High-performance Microphone Preamplifiers with Switchable Phantom Power
- Built-in Channel Compressors
- 3-band Channel EQ and High-pass Filter
- Effect Sends
- Stereo, Control Room, Monitor, and Headphone Outputs
- Bright Meters for Visual Level Monitoring
- Lightweight, Portable Design
- Optional Mic Stand Mount
- Easy Operation
- Built-in SPX Effects



MG82CX

TECHNIQUE INDEX

Model	MG82CX
Input Channel	2 mono+3 stereo
Channel EQ	3 BAND
EFFECT	Built-in SPX Effects
Buses	3 buses
Phantom Power	48V DC
Total Harmonic Distortion	Less than 0.1% (THD+N) 20Hz - 20kHz @ +14dBu (ST OUT)
Frequency Response	0, +1, -3dB 20Hz-20kHz @ +4dBu(ST OUT)
Hum & Noise	-128 dBu Equivalent Input Noise/ -100 dBu Residual Output Noise
	2 Hz -20 kHz, Rs=150Ω , Input Gain = Maximum
Input Connectors	MIC: 4, LINE: 2 mono + 4 stereo, CH INSERT: 2; RETURN: 1 stereo, 2TR IN: 1 stereo
Output Connectors	EFFECT SEND: 1, CH INSERT: 2, REC: 1stereo, MONITOR: 1stereo, Phone:1
Crosstalk	-70 dB @ 1 kHz
Phantom Power	+ 48 V
Input HPF	CH 1-2 and CH 3/4-5/6, 80Hz, 12dB/oct
CH EQ (MONO) ± 15 dB (Max.)High	10kHz: shelving
CH EQ (MONO) ± 15 dB (Max.)Mid	2.5kHz: peaking
CH EQ (MONO) ± 15 dB (Max.)Low	100Hz: shelving
CH EQ (STEREO) ± 15 dB (Max.)High	10kHz: shelving
CH EQ (STEREO) ± 15 dB (Max.)Mid	_
CH EQ (STEREO) ± 15 dB (Max.)Low	100 Hz: shelving
Compressor (COMP)	Control x 1 (Gain/Threshold/Ratio), CH 1-2
Internal Digital Effect	16 PROGRAM, PARAMETER control Foot Switch (Digital Effect, on/off)
LED Level Meter / Pre Monitor Level	2 x 7 points LED meter (PEAK, +6, +3, 0, -5, -10, -20dB) PEAK lights if
	the signal comes within 3 dB of the clipping level.
Peak Indicators	Red LED turns on when post EQ (ST CH: or post Mic HA) signal reaches
	-3dB below clipping (17dBu).
Power Supply Adapter	PA-10: AC 38VCT, 0.62A, Cable Length = 3.6m
Power Consumption	21W
Maximum size (W × H x D)	256.6 mm x 62.2 mm x 302.5 mm
Weight	1.6kg



F series 4/7 channels mixer



F4 –USB / F7 –USB

4 CH 2 mono microphone / line channel input, 1 stereo input
7 CH 5 mono microphone / line input, 1 stereo input

CHARACTERISTIC

- LR main mix
- Quick response, beautiful 3-band channel equalizer
- Channel peak and main level indicator
- 2 channels per channel to send
- 60mm dust proof fader
- 2 track monitor and replay to LR
- Ultra low noise mixing design
- MP3 player, supports a variety of audio formats
- Metal jack, gold plated XLR (XLR) plug, sealed potentiometer and switch
- External power adapter powered



TECHNIQUE INDEX

Maximum input level microphone		+ 24dBu
		Line + 24dB
The maximum output level is +		+26 dBu
Main level meter		5 segment LED
Frequency response		20Hz to 20Khz ± 0.5db
Common mode rejection ratio (MIC 1Khz)		> 75 dB
Total harmonic distortion (THD + N)		<0.01% (channel input to mix output)
Crosstalk (1K Hz)		> 85 dB
Noise (22Hz to 22K Hz)		Equivalent input noise -116dBu
		Remaining output noise <-80 dBu
Mono / Stereo Channel EQ		High Frequency, Broth, ± 15dB, 12K Hz
		High frequency, peak and valley type, ± 15dB, 2.5K Hz
		Low frequency, broom type, ± 15dB, 80Hz
Mono XLR		balanced, 2-pin hot end, 2K ohm, sensitivity -60 to +14 dBu
		TRS balanced, tip hot 10Kohm, sensitivity -40 to +14 dBu
		XLR Phantom Power + 48V
Stereo TRS		non-balanced, tip hot 10Kohm, sensitivity -40 to +14 dBu
L / R output TRS,		unbalanced, tip hot end, <75 ohm, -2dBu, max + 18dBu
FX / AUX output TRS,		unbalanced, tip hot side, <75 ohm, -2dBu, max + 18dBu
Headphones TRS,		tip L, ring R, recommended 30 to 600 ohm headphones
Maximum power input power	4/7 channel	15 W
Dimensions	4channel	7 channel
Width	210mm	330mm
Depth	230mm	230mm
Height	37mm	37mm

F Series Mixers with USB, Mp3, & BT



F4-MB



F7 -MB

F4 –MB / F7 –MB

Features:

- LR main mix
- Quick response, beautiful 3-band channel equalizer
- Channel peak and main level indicator
- 2 channels per channel to send
- 60mm dust fader
- 2 track monitor and replay to LR
- Ultra low noise mixing design
- MP3 player, supports a variety of audio formats,
- Bluetooth and recording
- Metal jack, gold plated XLR (XLR) plug, sealed potentiometer and switch
- External power adapter powered

TECHNIQUE INDEX

Maximum input level microphone		+ 24dBu
		Line + 24dB
The maximum output level is +		26 dBu
Main level meter		5 segment LED
Frequency response		20Hz to 20Khz ± 0.5db
Common mode rejection ratio (MIC 1Khz)		> 75 dB
Total harmonic distortion (THD + N)		<0.01% (channel input to mix output)
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Noise (22Hz to 22K Hz)		Equivalent input noise -116dBu
		Remaining output noise <-80 dBu
Mono / Stereo Channel EQ		High Frequency, Broth, ± 15dB, 12K Hz
		High frequency, peak and valley type, ± 15dB, 2.5K Hz
		Low frequency, broom type, ± 15dB, 80Hz
Mono XLR		balanced, 2-pin hot end, 2K ohm, sensitivity -60 to +14 dBu
		TRS balanced, tip hot 10Kohm, sensitivity -40 to +14 dBu XLR Phantom Power + 48V
Stereo TRS		non-balanced, tip hot 10Kohm, sensitivity -40 to +14 dBu
L / R output TRS,		unbalanced, tip hot end, <75 ohm, -2dBu, max + 18dBu
FX / AUX output TRS,		unbalanced, tip hot side, <75 ohm, -2dBu, max + 18dBu
Headphones TRS,		tip L, ring R, recommended 30 to 600 ohm headphones
Maximum power input power		4/7 channel | 15 W
Dimensions	4channel	7 channel
Width	210mm	330mm
Depth	230mm	230mm
Height	37mm	37mm

LAK-12 + LAK-18 SUB line array system



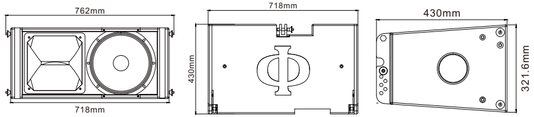
This LAK-12 is an easy-to-use, highly versatile two-way arrayable speaker system. The speaker features big dynamic range, high fidelity and flexible installation, making it suitable for acting as a main sound in those medium to small-sized sound reinforcement either indoor or outdoor.
The LAK-18 SUB is a compression type subwoofer tailed for LAK-12 speakers. It can easily integrated with LAK-12 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.

CHARACTERISTIC

- All neodymium components, “light” weigh 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 desperation, 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.

LAK-12/LAK-18 SUB

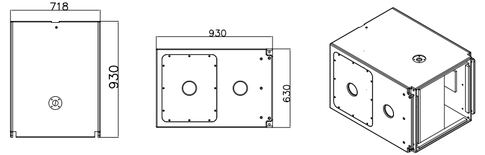
LAK-12 DRAWINGS



TECHNIQUE INDEX

Model	LAK-12	LAK-18 SUB
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:160W;Low:1000W	2200W
Maximum SPL	Hi:129dB(peak:135dB);Low:126dB(peak:132dB);	130dB(peak: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

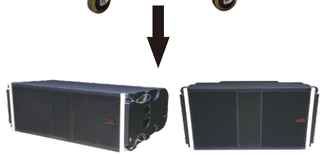
LAK-18 SUB DRAWINGS



LAS-210 + LAS-215 SUB line array system







LAS-210

LAS-210 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. Benefits from our 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.

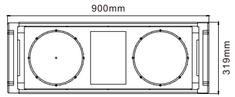
CHARACTERISTIC

- Our 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.

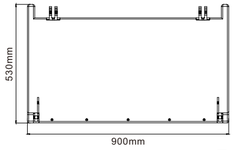
TECHNIQUE INDEX

Model	LAS-210
Frequency response	50Hz-18KHz
Drivers	Hi:1x2.5 " neodymium driver (65mm voice coil) Low:2x10" neodymium woofer (65mm voice coil)
Directivity angle	H100°xV10°
Sensitivity	Low:100dB Hi:108dB
Impedance	Low:8 ohm Hi:8 ohm
Long-term power(RMS)	Low:600W Hi:100W
Power peak	Low:1200W Hi:200W
Maximum SPL	Low:130dB Hi:131dB
Connector	2x4-pin Speakon (+1-1 LOW +2-2 HI)
Suspension angle	0°, 2°, 4°, 6°, 8°, 10°
Product/shipping dimensions(WxDxH)	900x530x319(980x580x855)mm
N.W/G.W	18.0kg/52.0kg(x2)

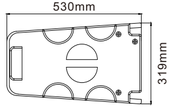
LAS-210 DRAWINGS



Front



Top



Left

LAS-215 SUB line array speaker



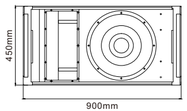
LAS-215 SUB

LAS-215 SUB is 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.

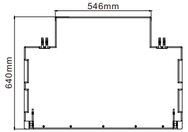
CHARACTERISTIC

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

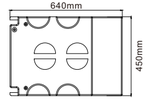
LAS-215 SUB DRAWINGS



Front



Top



Left

Model	LAS-215 SUB
Frequency response	40Hz-250Hz
Driver	2x15 " neodymium Italian drivers (75mm voice coil)
Sensitivity	100dB
Impedance	4 ohm
Long-term power(RMS)	1000W
Power peak	2000W
Maximum SPL	133dB
Connector	2x4-pin Speakon (+1-1)
Product/dimensions(WxDxH)	900x640x450(1000x690x675)mm
N.W/G.W	27.0kg/45.0kg

LAE-265 + LAE-212 POWERED active line array system



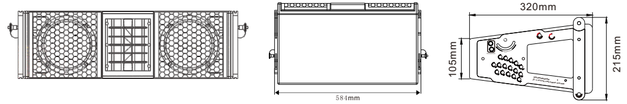
LAE-265
LAE-212 POWERED

LAE-265 + LAE-212 POWERED active line array system is composed of an active subwoofer and passive mid & high line array speakers. The speakers can be either hoisted or ground stacked as a line array.
LAE-212 POWERED is the subwoofer comprising 2 pieces of 12" woofers while LAE-265 is the mid & high speaker comprising 2 pieces of 6.5" MF drivers and 1 pieces of 2" tweeter. Our engineers made a great effort in creating new technology for accomplishing this system. It is not just a simple active speaker system, It possesses distant PC control for the line array speakers, with functions of phase, delay, EQ, crossover correction. One piece of LAE-212 POWERED can drive four pieces of LAE-265. It satisfies the basic application of a line array.
LAE-265 + LAE-212 POWERED active line array system is specially designed for opera house, small-to-medium auditorium and ordinary entertainment venues.

CHARACTERISTIC

- Our proprietary aluminum rigging hardware and suspension frame.
- Highly noise- absorbable materials.
- Quick rigging.
- Proprietary design of the compressed horn.
- Proprietary flat sound dispersion technology
- Specialized flight cases for transportation protection.
- Specialized power distributor splitter and connecting cable.
- Environmental lacquer finishing.
- Super-hard sprayed paint steel grille.
- 9- ply birch laminate construction.

LAE-265 DRAWINGS



Front Top Left

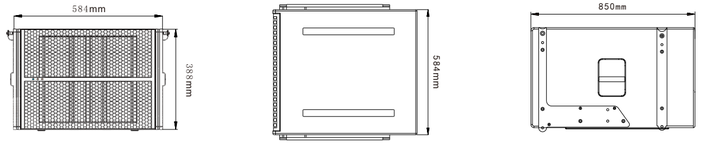
TECHNIQUE INDEX

Model	LAE-625
System configuration	Two-way full range
Construction	
MF driver	2 x 6.5"
HF driver	1 x 2"
Material	Polo birch plywood
Exterior protection	Environmental black lacquer finishing
Suspension	Our Proprietary rigging system
Front panel protection	Harden spray finishing round perforation steel grille
Frequency response(±3 dB)	100Hz~18KHz (1 enclosure)
Sensitivity(Axis 1m/1w)	97dB
Input impedance	8 ohm
Continuous power	150W
Max power	300W
Peak power	600W
Dispersion angle	H: 90 ° V: 15 °
Suspension angle	0°~15°
Product dimensions (WxDxH) (±1.0mm)	584x320x215mm
Shipping dimensions(WxDxH)	695x659x470mm
Packing	Flight case without wheels(Four speakers each case)
N.W/G.W	14.5kg(1xLAE-212 POWERED)/81.0kg (4xLAE-625 & flight case no wheels)

TECHNIQUE INDEX

Model	LAE-212 POWERED
System configuration	Active subwoofer
Woofer	2 x 12"
Material	Polo birch plywood
Exterior protection	Environmental lacquer finishing
Suspension	Our Proprietary rigging system
Front panel protection	Harden spray finishing round perforation steel grille
Frequency response(±3 dB)	30Hz~250Hz(1 enclosure)
Sensitivity(Axis 1m/1w)	101dB(Full range)
Continuous power	1000W
Max power	2000W
Peak power	4000W
Amplifier power	FULL RANGE 700W/4 ohm 1%THD SUB 900W/4 ohm 1%THD
Connector	1x XLR through out 1x XLR Input 2x1/4" TRS input
Power supply	AC 180V - 240V, 50-60Hz
Product/shipping dimensions(WxDxH)	584x850x388mm(893x689x589mm)
N.W/G.W	69.4kg/97.4kg

LAE-212 POWERED DRAWINGS



Front Top Left

LAE-250+LAE-280 POWERED active line array system

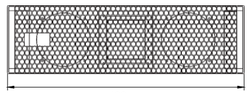


LAE-250+LAE-280 POWERED active line array system is composed of an active subwoofer and passive mid & high line array speakers. The speakers can be either hoisted or ground stacked as a line array.
LAE-280 POWERED is the subwoofer comprising 2 pieces of 8" woofers while LAE-250 is the mid & high speaker comprising 2 pieces of 5" MF drivers and 1 piece of 1.3" compression driver. Our engineers made a great effort in creating the new technology for accomplishing the system. It is not just a simple active speaker system. It possesses distant PC control for the line array speakers,with functions of phase,delay, EQ, crossover correction. One piece of LAE-280 POWERED can drive four pieces of LAE-250. It satisfies the basic application of a line array.
LAE-250+LAE-280 POWERED active line array sytem is specially designed for vocal reinforcement. It is best for small-to-medium conference room, KTV and small-sized performance venues.

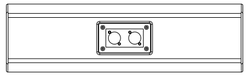
- Our proprietary aluminium rigging hardware and suspension frame.
- High-density noise absorbable materials.
- Quick and easy rigging.
- Proprietary flat coverage dispersion technology.
- Professional power supply and connection.
- Environmental black lacquer coating.
- Special-designed round perforation steel grille.
- 7-ply birch laminate construction.
- Neodymium compression tweeter provides stunning sound and excellent coverage.
- Build-in amplifier with DSP.

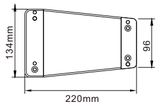
LAE-250
LAE-280 POWERED

LAE-250 DRAWINGS



Front


Top



Left

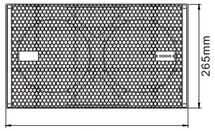
SPECIFICATIONS

Model	LAE-250
System configuration	Two-way full range
Construction	
MF driver	2 x 5"
HF driver	1 x 1.3"
Material	Plywood
Exterior protection	Environmental black lacquer finishing
Suspension	Proprietary rigging system
Front panel protection	Harden spray finishing round perforation steel grille
Frequency response (±3 dB)	120Hz~18KHz(One enclosure)
Sensitivity(Axis 1m/1w)	92dB(Full range)
Input impedance	16 ohm
Continuous power	80W
Max power	160W
Peak power	320W
Dispersion angle	H: 90 ° V: 15 °
Suspension angle	0~12 °
Product dimensions (WxDxH)	466x220x134mm
Shipping dimensions(WxDxH)	540x580x355mm
Packing	Standard carton (Four speakers each carton)
N.W/G.W	5.3kg(1xLAE-280 POWERED)/26.1kg(4xLAE-250)

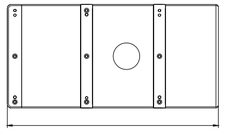
SPECIFICATIONS

Model	LAE-280 POWERED
Woofer	2 x 8"
Exterior protection	Environmental black lacquer finishing
Suspension	Proprietary rigging system
Front panel protection	Harden spray finishing round perforation steel grille
Frequency response(±6dB)	One enclosure 60Hz-250Hz
Sensitivity(Axis 1m/1w)	97dB(Full range)
Input impedance	4 ohm
Continuous power	400W
Max power	800W
Peak power	1600W
Input sensitivity	0.775V
Amplifier power	SUB: 700W / 4 ohm FULL RANGE: 700W/ 4 ohm
Power supply	AC180V~260V 50~60Hz
Product dimensions(WxDxH)	466x540x265mm
Shipping dimensions(WxDxH)	555x660x355mm
N.W/G.W	22.8kg/30.5kg

LAE-280 POWERED DRAWINGS



Front



Right


Back

Column Speaker System



CHARACTERISTIC

- Small volume and large energy
- High-pitched and delicate
- The intermediate frequency is supple

Application:
The main expansion of high-end small and medium-sized conference sound reinforcement system
Applicable to all kinds of occasions:multi-function hall,small banquet hall,conference hall,small and medium-sized theater,high-end small and medium-sized places



HQ250 Passive
HQ350SUB-PA

TECHNIQUE INDEX

Model	HQ250 Passive	Model	HQ350SUB-PA
Name	Double 6 inch column speaker	Name	Single 12 inch active column subwoofer
Power	250W	Power	350W
Impedance	4 ohms	Impedance	8 ohms
High frequency	25mm Neodymium magnetic	Low frequency	220mm magnet/100mm voice coil
Low frequency	2x100mm magnet /34mm voice coil	Frequency range	45Hz-200Hz
Frequency range	80Hz-20kHz	Frequency response	50Hz-180Hz(±3dB)
Frequency response	90Hz-18kHz(±3dB)	Sensitivity	102dB SPL 1w/1m
Sensitivity	97dB SPL 1w/1m	Maximum SPL @1m	128dB SPL
Maximum SPL @1m	119dB SPL	Amplifier type	2*600W/8ohms CLASS D with DSP
Coverage pattern	90°x90°	AC power input	210-240V AC 50/60Hz or 110V AC 50/60Hz
Dimensions(HxWxD)	550mm x190mm x180mm	Dimensions(HxWxD)	430m x348mm x 410mm
Material	MDF cabinet	Material	MDF cabinet
Net weight(each)	7Kg	Net weight(each)	27Kg



SUB 221

TECHNIQUE INDEX

Model	SUB 221
Subassembly	VLF 2* 21" (540mm neodymium)
Connector	2* NEUTRIK NL4
Frequency Response	35Hz-250Hz
Sensitivity	103 dB
Max. sound Pressure	139 dB
Power Rating	3600 W
Max Power	7200 W
Impedance	4 Ohm
Recommended amplifier	1500 to 1800 W into 8 Ohm
Dimension(HxWxD)	600 x1400 x 900 mm

21 " -1000W-99dB (125core neodymium magnetic unit)



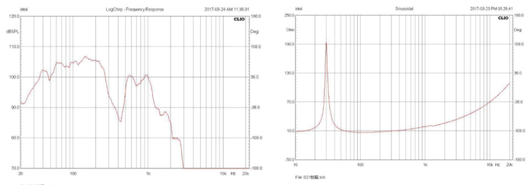


NOMINAL SPECIFICATIONS

Nominal Diameter	530mm(21in)
Overall Diameter	542mm(21.34 in)
Bolt Circle Diameter	517mm(20.35in)
Baffle Cutout Diameter	492mm(19.37in)
Depth	245mm(9.65in)
Flange and Gasket Thickness	10mm(0.39in)
Net Weight	9.26kg
Shipping Box	560×555×345mm
Single Carton Box	(22.0×21.9×13.6in)
Shipping Weight	10.5kg

TECHNICAL PARAMETERS

Nominal Impedance	8Ω
Minimum Impedance	7Ω
AES Power Handling AES	1000W
Maximum Power Handling	2000W
Sensitivity (1W/1m) (1W/1m)	99dB
Frequency Range	29.7Hz-1.8KHz
Voice Coil Diameter	125mm(4.92)
Winding Material	Cu
Former Material	Glass Fiber
Winding Depth	31mm(1.22in)
Cone Surround Accordion	(4 Waves)



Portable sound system with wheel case



CHARACTERISTIC

The PA Portable sound system is a versatile, high-performance, full-range speaker & subwoofer system for mobile sound reinforcement needs.

Passive Built-in 2 way design ,with 2 Neutrik NL4 plug , Neodymium magnet/ Ferrite magnet drivers optional ,birch 18mm cabinet ,anti-scratch textured paint coating , integrated in four wheels case to enable easy transportation, make it professional and widely used in occasions like touring show, shopping mall, hall ,meeting room ,small stage etc. Definitely a good choice for touring sound enforcement needs.

PA915+

TECHNIQUE INDEX

Model	PA915+
Units	LF: 1x15"",75mm voice coil,Neodymium driver HF:2x1.75"",Neodymium driver"
Frequence Response	±3dB, 50-17K Hz
Sensitivity(1m/1W)	97dB
Power	rated power 900 watts
Cabinet	18mm plywood
Finish	Matt black
H x V	90°x60°
Impedance	8Ω
Connector	NL4x2,+1/-1
Size	430x430x726mm
Weight	32KG

Loudspeaker
Power & Grace | Series

Portable sound system with wheel case



CHARACTERISTIC

The PA Portable sound system is a versatile, high-performance, full-range speaker & subwoofer system for mobile sound reinforcement needs.

Passive Built-in 2 way design ,with 2 Neutrik NL4 plug , Neodymium magnet/ Ferrite magnet drivers optional ,birch 18mm cabinet ,anti-scratch textured paint coating , integrated in four wheels case to enable easy transportation, make it professional and widely used in occasions like touring show, shopping mall, hall ,meeting room ,small stage etc. Definitely a good choice for touring sound enforcement needs.

PA915

TECHNIQUE INDEX

Model	PA915
Units	LF: 1x15"",75mm voice coil,⌀190mm magnet ferrite driver HF:2x1.75"" ferrite driver"
Frequence Response	±3dB, 60-16.5K Hz
Sensitivity(1m/1W)	96dB
Power	rated power 500 watts
Cabinet	18mm plywood
Finish	Matt black
H x V	90°x60°
Impedance	8Ω
Connector	NL4x2,+1/-1
Size	430x430x726mm
Weight	34KG

Portable sound system with wheel case



Features:

The PA Portable sound system is a versatile, high-performance, full-range speaker & subwoofer system for mobile sound reinforcement needs.

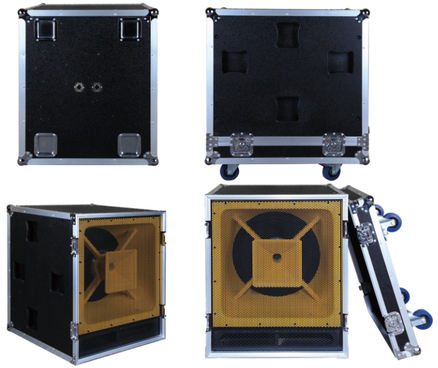
Passive Built-in 2 way design ,with 2 Neutrik NL4 plug , Neodymium magnet/ Ferrite magnet drivers optional ,birch 18mm cabinet ,anti-scratch textured paint coating , integrated in four wheels case to enable easy transportation, make it professional and widely used in occasions like touring show, shopping mall, hall ,meeting room ,small stage etc. Definitely a good choice for touring sound enforcement needs.

TECHNIQUE INDEX

Model	PA925
Units	LF: 2x15",75mm voice coil,Neodymium driver HF:2x1.75",Neodymium driver
Frequence Response	±3dB, 40-17K Hz
Sensitivity(1m/1W)	100 dB
Power	rated power 1000 watts
Cabinet	18mm plywood
Finish	Matt black
H x V	100°x50°
Impedance	4Ω
Connector	NL4x2,+1/-1
Size	520x480x1200mm
Weight	57KG

PA925

Long Throw 18 inch full range speaker covering 0.6 KM



Features:

Portable sound system with wheel case

The PA Portable sound system is a versatile, high-performance, full-range speaker & subwoofer system for mobile sound reinforcement needs.

Passive Built-in 2 way design ,with 2 Neutrik NL4 plug , Neodymium magnet/ Ferrite magnet drivers optional ,birch 18mm cabinet ,anti-scratch textured paint coating , integrated in four wheels case to enable easy transportation, make it professional and widely used in occasions like touring show, shopping mall, hall ,meeting room ,small stage etc. Definitely a good choice for touring sound enforcement needs.

TECHNIQUE INDEX

Model	PA918
Units	1x18",⌀220 mm ferrite magnet,Al basket
Frequence Response	±3dB, 45-19KHZ
Sensitivity(1m/1W)	100 dB
Power	rated power 950 watts
Cabinet	18mm plywood
Finish	Matt black
H x V	/
Impedance	8Ω
Connector	NL4x2,+1/-1
Size	554x598x726mm
Weight	55KG

PA918

Long Throw 18 inch full range speaker covering 1 KM



PA928

Features:

Portable sound system with wheel case

The PA Portable sound system is a versatile, high-performance, full-range speaker & subwoofer system for mobile sound reinforcement needs.

Passive Built-in 2 way design ,with 2 Neutrik NL4 plug , Neodymium magnet/ Ferrite magnet drivers optional ,birch 18mm cabinet ,anti-scratch textured paint coating , integrated in four wheels case to enable easy transportation, make it professional and widely used in occasions like touring show, shopping mall, hall ,meeting room ,small stage etc. Definitely a good choice for touring sound enforcement needs.

TECHNIQUE INDEX

Model	PA928
Units	2x18",⌀220 mm ferrite magnet,Al basket
Frequence Response	±3dB, 45-19KHZ
Sensitivity(1m/1W)	102 dB
Power	rated power 1100 watts
Cabinet	18mm plywood
Finish	Matt black
H x V	/
Impedance	4Ω
Connector	NL4x2,+1/-1
Size	1160x925x580mm
Weight	105KG

Outdoor long-throw Point source speaker



RX212



RX215

Features:

- Point source sound wave direction
- Dual 12 inch / Dual 15 inch designs
- More powerful and extraordinary bass output
- Outdoor, Open air activities / gathering sound reinforcement solution.

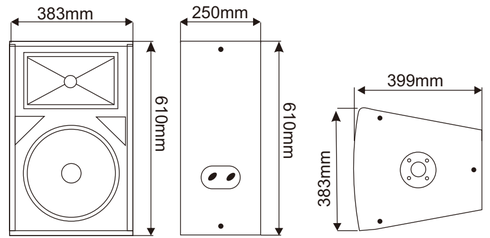
TECHNIQUE INDEX

Model	RX212
Units	LF: 2x12"",75mm voice coil,Neodymium driver
	HF:1x1.75"",Neodymium driver"
Frequence Response	60~18K Hz
Sensitivity(1m/1W)	96dB
Power	rated power 850 watts
Cabinet	18mm plywood
Finish	Matt black ,polyurea coating
H x V	90°x50°
Impedance	8Ω
Connector	NL4x2,+1/-1
Size	460x451x732mm
Weight	21KG

Model	RX215
Units	LF: 2x15"",75mm voice coil,Neodymium driver
	HF:1x3""l,ferrite driver"
Frequence Response	55~18.5K Hz
Sensitivity(1m/1W)	100dB
Power	rated power 1000 watts
Cabinet	18mm plywood
Finish	Matt black,polyurea coating
H x V	100°x60°
Impedance	8Ω
Connector	NL4x2,+1/-1
Size	500x534x893mm
Weight	36KG

Ex12a Active Speaker With Dsp





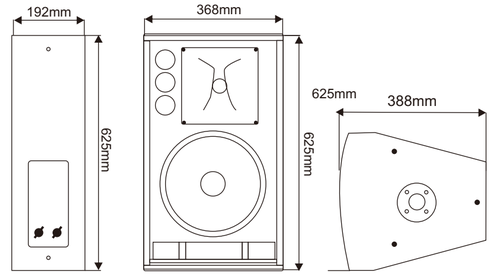
EX12A+
EX12+ Passive

TECHNIQUE INDEX

Model	EX12A+/EX12+ Passive
Frequency Range	45~18kHz
Senistivity(1w/1m)	98dB
Rated power and impedance	350W/8Ω
Peak power (W)	600W
Sound pressure level(1M) SPL	126dB
Pointing characteristic(H×V)	85°x50°
Drivers	HF:44mm voice coil; LF: 156mm magnet/65mm voice coil
Size(LxDxH)mm	625x385x400
Weight(kg)	28

Bx12a Active Speaker With Dsp





BX12A+
BX12+ Passive

TECHNIQUE INDEX

Model	BX12A+ / BX12+ Passive
Frequency Range	60~20kHz
Senistivity(1w/1m)	97dB
Rated power and impedance	250W/8Ω
Peak power (W)	600W
Sound pressure level(1M) SPL	121dB
Pointing characteristic(H×V)	90°x60°
Drivers	HF:44mm voice coil; LF: 165mm magnet/65mm voice coil
Size(LxDxH)mm	625x368x388
Weight(kg)	23

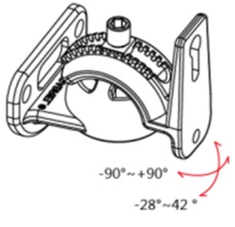
COMPACT 5" Professional coaxial speaker systems

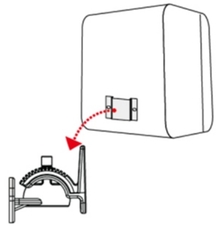


KP-15/KP-25

CHARACTERISTIC

● The Series is ideal for speech and music in a wide variety of applications, including sports facilities, stadiums, meeting room, class room, background music, concourses, department store , coffee shop, home theater and a wide variety of other indoor venue types. Easy to install, while providing superior voice and music.





TECHNIQUE INDEX

Model	KP-15	KP-25
Drivers	H19mm*1+L5"*1	H19mm*2+L5"*2
Impedance	8Ω	8Ω
Handling power	50W(RMS) 100W(PEAK)	100W(RMS) 200W(PEAK)
Sensitivity	90dB	93dB
Housing Material	MDF	MDF
Finish	Black	Black
Dimensions	180x175x170 mm(WxHxD)	180x325x170 mm(WxHxD)
Net weight (1 Pcs)	2.2 Kg	3.7 Kg
Frequency response	60Hz-20KHz	55Hz-20KHz

Professional Entertainment Speaker



KP-610 / KP-612 / KP-615

CHARACTERISTIC

● Passive two frequency division system
● It is a multi-functional loudspeaker designed for a passive high-quality decentralized sound expansion system and high-performance monitoring system. A multi-purpose sound box, which is flexible and suitable for flow performance, can be fixed and installed. The middle-and-low-frequency part contains a 10-inch high-power low-frequency unit, and the high-frequency part contains a compressed high-frequency unit. Featuring pure timbre, refreshing, delicate voice and strong performance, it is suitable for KTV entertainment and return to the stage.
● The structure of the box is made of 15mm thick high-quality plate, and the interior is strengthened.

Application:
● It can be used in many occasions such as small flow amplifying system, sound system of the conference room, the small hall sound system, radio, KTV, club, theater sound, complement classroom, company office (FOH) in small pa system and distributed system installation etc.
● The box has set up a number of pre installed components for the installation of the loudspeaker for selection, safe and fast.
It is mainly used for voice expansion, stage back listening, or distributed sound expansion system.

TECHNIQUE INDEX

Model	KP-610	KP-612	KP-615
Frequency Response	60Hz-18KHz	60Hz-18KHz	60Hz-18KHz
Impedance	8	8	8
Rate Power/Peak power	300W	400W	550W
Senistivity	95dB	95dB	95dB
Max SPL/1M	102dB	102dB	102dB
Size	300x340x524mm	350x382x600mm	430x430x680mm
Material	15mm Plywood, Aluminum frame	15mm Plywood, Aluminum frame	18mm Plywood, Aluminum frame
Configuration	34 coil 90 magnetic HF, 65 coin 156 magnetic LF	44 coil 120 magnetic HF, 75 coin 190 magnetic LF	44 coil 120 magnetic HF, 75 coin 190 magnetic LF



KP-618 / KP-625

CHARACTERISTIC

●Single 18 ultra-low-frequency system
KP-618 is a super low voice loudspeaker system that provides very high power for low-frequency sound expansion.
● There is one 18-inch long stroke low frequency unit in the individual acoustic box, which can load a large amount of power for a long time.
● The box is made of 18mm high-quality plate, and the support is strengthened in the interior of the box, which makes the box produce very small vibration when working in high power. A very shocking performance under very low distortion. The structure of the box is made of 15mm thick high-quality plate, and the interior is strengthened.

Application:
● It can be used in many occasions the sound needs, such as: small flow amplifying system, sound system of the conference room, the small hall sound system, radio, KTV club, theater sound, complement classroom, company office (FOH) in small pa system and distributed system installation etc..
● The box has set up a number of pre installed components for the installation of the loudspeaker for selection, safety and fast.
● It is mainly used for voice expansion, stage back listening, or distributed sound expansion system.

TECHNIQUE INDEX

Model	KP- 618	KP-625
Frequency Response	400Hz-200Hz	60Hz-18KHz
Impedance	8	8
Rate Power	600w	1300w
Senistivity	97dB	95dB
Max SPL/1M	105dB	102dB
Size	600x700x540mm	300x340x524mm
Material	18mm Plywood, Aluminum frame	18mm Plywood, Aluminum frame
Configuration	100 coin 220 magnetic LF	75 coil 180 magnetic HF, 100 coin 220 magnetic LF

PSRX series



For over a decade, Spirit PSRX series speakers have represented the best performance, highest quality, and most advanced driver technology available to portable PA users. The PSRX700 series continues that tradition and moves the bar even higher.
The advanced technology of PSRX700 series speakers delivers the power and performance you would expect from the highest quality, professional systems. At the same time, Spirit innovation and design have reduced system weight so load in and load out are a breeze. All this performance is housed in rugged Spirit enclosures for years of superb performance.

12" two-way stage monitor



PSRX712M

12" High-Power Two-Way Stage Monitor

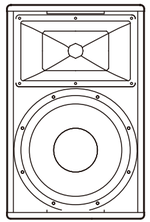
The PSRX712M was designed with one goal-build the lightest, smallest, loudest, clearest stage monitor possible while delivering strikingly professional appearance.

Application:

- Compact and low-profile for minimal obstruction of audience sight-lines.
- 90°x 50° nominal coverage.
- Bi-amplified or full-range passive operation.
- Dual-angle pole socket for applications requiring tripod mounting.
- Optional yoke available for trussmounted or suspended applications.
- Neodymium magnet Differential Drive® woofer for high-power capacity and very light-weight.
- 3-inch(diaphragm) neodymium magnet compression driver.

TECHNIQUE INDEX

Model	PSRX712M
Power Rating	300 W / 600 W
Frequency Range	70 Hz - 20kHz (-10 dB)
Dimensions	349 mm x 546 mm x 260 mm
(H x W x D)	(13.75 in x 21.5 in x 10.25 in)
Frequency Response	83 Hz - 18 kHz (±3 dB)
Coverage Pattern	90º x 50º nominal
Net Weight	15 kg (33 lb)
Configuration	190 magnetic LF,
	44 coil HF



15" two-way



PSRX715

15" High-Power Two-Way Loudspeaker

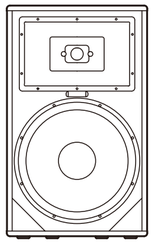
The PSRX715 offers the highest level of performance available from a portable, pole or tripod mountable speaker.

Application:

- Light-weight and very high-power.
- 75°x 50°coverage.
- Bi-amplified or full-range passive operation.
- Dual-angle pole socket for applications requiring tripod mounting.
- Flying version available (PSRX715F) with five suspension points. May be used with optional M10 eyebolts or detachable track fittings.
- Differential Drive® woofer with magnet for high power capacity and very light-weight.
- 3-inch (voice-coil) compression driver

TECHNIQUE INDEX

Model	PSRX715
Power Rating	500W / 1000 W
Frequency Range	40 Hz - 20kHz (-10 dB)
Dimensions	711 mm x 439 mm x 406 mm
(H x W x D)	(28 in x 17.3 in x 16 in)
Frequency Response	53 Hz - 20 kHz (±3 dB)
Coverage Pattern	75º x 50º nominal
Net Weight	22 kg (48 lb.)
Configuration	100 coil 220 magnetic LF,
	75 coil HF



18" subwoofer



PSRX718S

18" High Power Subwoofer

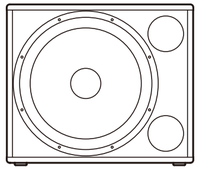
The PSRX718S subwoofer's compact design is equally at home as a small, high-performance satellite subwoofer system or as a building block for larger subwoofer arrays.

Application:

- 18 inch, 2268H Differential Drive® woofer for extended low-frequency output.
- Large port area for reduced distortion.
- 20mm threaded pole socket for solid, secure satellite speaker mounting.

TECHNIQUE INDEX

Model	PSRX718S
Power Rating	400W / 800W
Frequency Range	31 Hz - 220 Hz (-10 dB)
Dimensions	508 mm x 597 mm x 749 mm
(H x W x D)	(20.0 in x 23.5 in x 29.5 in)
Frequency Response	34 Hz - 220 Hz (±3 dB)
Net Weight	36 kg (79 lb.)



Dual 15" two-way



PSRX725

Dual 15" High-Power Two-Way Loudspeaker

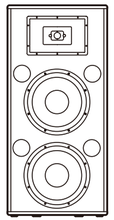
For the ultimate in performance and simplicity, a pair of PSRX725 speakers, and a single, high-power amplifier delivers superb high-level music and powerful bass.

Application:

- Light-weight and very high-power.
- Dual 380 mm (15 inch) Differential Driver® low-frequency drivers for extended low-frequency output.
- 75 mm (3 in) voice-coil compression driver for high-power capacity and very lightweight.
- 75°x 50° coverage.
- Bi-amplified or full-range passive operation.
- On PSRX725F model, five suspension points may be used with optional M10 eyebolts or detachable track fittings.

TECHNIQUE INDEX

Model	PSRX725
Power Rating	1000 W / 2000 W / 4000 W
Frequency Range	37 Hz - 20kHz (-10 dB)
Dimensions	1219 mm x 541 mm x 508 mm
(H x W x D)	(48 in x 21.3 in x 20 in)
Frequency Response	53 Hz - 20 kHz (±3 dB)
Coverage Pattern	75º x 50º nominal
Net Weight	45 kg (100 lb.)
Configuration	100 coil 220 magnetic LF,
	75 coil HF



Dual 18" subwoofer



PSRX728S

Dual 18 in. High-Power Subwoofer

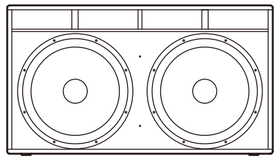
The PSRX728S is a high power subwoofer system containing two 18inch magnet, patented Differential Drive®, 18" woofers in a front-loaded, vented enclosure.

Application:

- Light-weight and very high-power.
- Dual 18 inch Differential Drive® low-frequency drivers for extended low-frequency output.
- 75°x 50° coverage.
- Bi-amplified or full-range passive operation.
- On PSRX725F model, five suspension points may be used with optional M10 eyebolts or detachable track fittings.

TECHNIQUE INDEX

Model	PSRX728S
Power Rating	1600 W / 3200 W / 6400 W
Frequency Range	27 Hz - 220 Hz (-10 dB)
Dimensions (H x W x D)	610 mm x 1067 mm x 838 mm (24 in x 42 in x 33 in)
Frequency Response	33 Hz - 220 kHz (±3 dB)
Net Weight	76 kg (166.5 lb.)



Loudspeaker
Power & Grace | Series

PSTX Series

With four full-range systems and two subwoofers, the PSTX Series can cover any professional applications. Whether you're in need of ancillary speakers for a full-blown tour sound system, ground-stacking for a live concert performance, installing speakers in dance clubs or performance venues, touring clubs with your band, or you are a performing mobile DJ, PSTX800 Series is the smart choice.

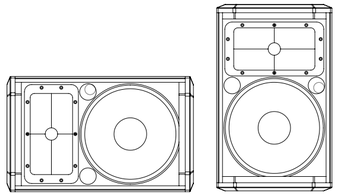




12" two-way floor monitor



PSTX812M



12" Two-Way, Bass-Reflex, Stage Monitor/Utility

Designed specifically to be a high-performance 12" two-way floor monitor, it can also do double duty as a utility speaker for use on a tripod stand or over a subwoofer, utilizing a single-position pole mount. A 70 degree by 70 degree waveguide is utilized for precise coverage.

Application:

- Compact and low-profile for minimal obstruction of audience sight-lines.
- 70°x 70° nominal coverage.
- full-range passive operation.
- Pole socket for applications requiring pole or tripod mounting.
- High power handling, low distortion Vented Gap Cooling™ LF driver.
- 3 inch(diaphragm) compression driver.

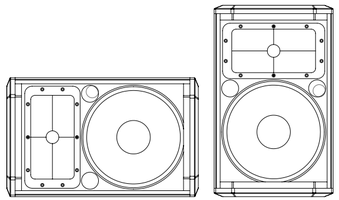
TECHNIQUE INDEX

Model	PSTX812M
Frequency Range (–10 dB)	50 Hz-20 kHz
Frequency Response (± 3 dB)	75 Hz-20 kHz
Coverage Pattern	70˚ × 70˚ nominal
Sensitivity (1W/1m)	95 dB
Power Rating	400 W / 800 W
Rated Maximum SPL	130 dB SPL Peak
Nominal Impedance	8Ω
Input Connectors	Two NL4
Operational Modes	Full Range/Bi-Amp
Dimensions (H x W x D)	571 mm x 355 mm x 264 mm
Configuration	(22.5" x 13.4" x 10.4")
	220 magnetic LF,
Net Weight	44 coil HF
	19 kg (42 lbs)

15" lightweight two-way Speaker



PSTX815M



15" Two-Way, Bass-Reflex, Stage Monitor/Utility

A single 15" lightweight two-way system designed to function as a high-power handling, FOH loudspeaker system or as an extended range floor monitor, it offers an extremely high-level performance either ground, pole or stand mounted. A 70 degree by 70 degree coverage angle for focused directivity control.

Application:

- Compact and low-profile for minimal obstruction of audience sight-lines.
- 70°x 70° nominal coverage.
- Bi-amplified or full-range passive operation.
- Pole socket for applications requiring pole or tripod mounting.
- Twelve M10 suspension points.
- High power handling, low distortion Vented Gap Cooling™ LF driver.
- 3 in. (diaphragm) magnet compression driver.
- Rugged DuraFlex™ coated enclosures sized to be truck pack friendly.
- 14-Gauge steel grille lined with acoustically transparent cloth.

TECHNIQUE INDEX

Model	PSTX815M
Frequency Range (–10 dB)	41 Hz-20 kHz
Frequency Response (± 3 dB)	55 Hz-20 kHz
Coverage Pattern	70˚ × 70˚ nominal
Sensitivity (1W/1m)	96 dB
Power Rating	500 W / 1000 W
Rated Maximum SPL	131 dB SPL Peak
Nominal Impedance	8Ω
Input Connectors	Two NL4
Operational Modes	Full Range/Bi-Amp
Dimensions (H x W x D)	721 mm x 436 mm x 329 mm
	(28.4" x 17.2" x 13.0")
Configuration	100 coil 440 magnetic LF,
	75 coil HF
Net Weight	26 kg (58 lbs)

18" compact high power subwoofer



Single 18” Bass Reflex Subwoofer

A single 18" compact high power subwoofer system in a front-loaded, vented enclosure designed for minimum frontal area provides 1,000 watts of continuous pink noise power handling, 2 kW program and 4 kW peak. The PSTX818S also comes equipped with a top-mounted M20 pole-mount and an optional wheel kit.

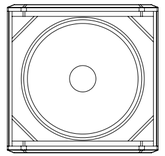
Application:

- 18 in. Super Vented Gap™ woofer for extended low-frequency output.
- Large port area for reduced distortion.
- 20 mm threaded pole socket for solid, secure satellite speaker mounting.
- Rugged DuraFlex™ coated enclosures sized to be truck pack friendly.
- 14-Gauge steel grille lined with acoustically transparent cloth.

PSTX818S

TECHNIQUE INDEX

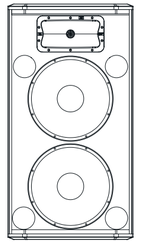
Model	PSTX818S	PSTX818S+
Frequency Range (–10 dB)	35 Hz-250 Hz	35 Hz-250 Hz
Frequency Response (± 3 dB)	40 Hz-120 Hz	40 Hz-120 Hz
Sensitivity (1W/1m)	96 dB	96 dB
Power Rating	800W / 1600 W / 3200 W (Continuous/Program/Peak)	1000 W / 2000 W / 4000 W (Continuous/Program/Peak)
Rated Maximum SPL	132 dB SPL Peak	132 dB SPL Peak
Nominal Impedance	8Ω	8Ω
Input Connectors	Two NL4	Two NL4
Operational Modes	Subwoofer	Subwoofer
Dimensions (H x W x D)	558 mm x 568 mm x 718 mm (22.0" x 22.4" x 28.3")	558 mm x 568 mm x 718 mm (22.0" x 22.4" x 28.3")
Net Weight	45 kg (100 lbs)	45 kg (100 lbs)



dual 15" two-way speaker



PSTX825



Dual 15" Two-Way, Bass-Reflex

PSTX825 is a dual 15" two-way speaker designed for maximum impact, portability and ease of use. With a wide frequency range and broad 90 degree by 50 degree coverage angles, this speaker is ideal for bands or DJ’s as their primary PA, used as a side-fill on a concert stage, or as an install speaker in a dance club or performance venue.

Application:

- Compact and very high-power.
- Dual (15") Vented Gap Cooling™ low-frequency drivers for very high acoustic output.
- 102 mm (4 inch) voice-coil neodymium compression driver for high-power capacity and very light-weight
- 90°x 50° coverage.
- Bi-amplified or full-range passive operation.
- Twelve M10 suspension points may be used with optional M10 eyebolts.
- Rugged DuraFlex™ coated enclosures sized to be truck pack friendly.
- 14-Gauge steel grille lined with acoustically transparent cloth.

TECHNIQUE INDEX

Model	PSTX825
Frequency Range (–10 dB)	34 Hz-20 kHz
Frequency Response (± 3 dB)	42 Hz-19 kHz
Coverage Pattern	90˚ × 50˚ nominal
Sensitivity (1W/1m)	98 dB
Power Rating	1000 W / 2000 W 136 dB SPL Peak
Rated Maximum SPL	4Ω
Nominal Impedance	Two NL4
Input Connectors	Full Range/Bi-Amp
Operational Modes	1066 mm x 568 mm x 573 mm
Dimensions (H x W x D)	(42.0" x 22.4" x 22.6")
Configuration	100 coil 440 magnetic LF, 86 coil HF
Net Weight	51 kg (112 lbs)

dual 18" high power subwoofer



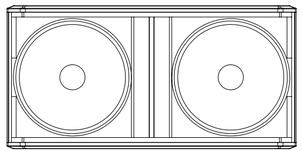
Dual 18" Bass Reflex Subwoofer

A dual 18" high power subwoofer system in a front-loaded, vented enclosure designed for maximum low-frequency performance. The PSTX828S has an optional wheel kit. Two drivers give 2,000 watts of continuous pink noise power handling, 4kW program and 8 kW peak.

Application:

- Dual 18 inch Super Vented Gap™ woofers for extended low frequency output.
- Dual 18 inch Super Vented Gap™ woofers for extended low frequency output.
- Rugged DuraFlex™ coated enclosures sized to be truck pack friendly.
- 14-Gauge steel grille lined with acoustically transparent cloth.

PSTX828S



TECHNIQUE INDEX

Model	PSTX828S	PSTX828S+
Frequency Range (–10 dB)	32 Hz-250 Hz	32 Hz-250 Hz
Frequency Response (± 3 dB) Sensitivity (1W/1m)	37 Hz-120 Hz 99 dB	37 Hz-120 Hz 99 dB
Power Rating	1600 W / 3200 W / 6400 W (Continuous/Program/Peak)	2000 W / 4000 W / 8000 W (Continuous/Program/Peak)
Rated Maximum SPL	138 dB SPL Peak	138 dB SPL Peak
Nominal Impedance	4Ω	4Ω
Input Connectors	Two NL4	Two NL4
Operational Modes	Subwoofer	Subwoofer
Dimensions (H x W x D)	564 mm x 1137 mm x 714 mm (22.2" x 44.8" x 28.1")	564 mm x 1137 mm x 714 mm (22.2" x 44.8" x 28.1")
Net Weight	82 kg (180 lbs)	82 kg (180 lbs)



MTS-12, MTS-15

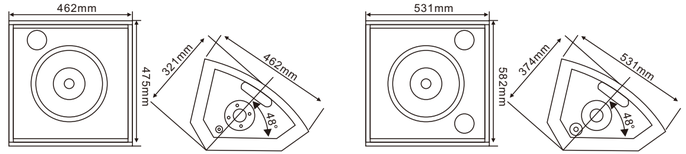
The MTS stage monitor series loudspeakers have long been a popular choice among audio professionals and musicians for offering high-quality components, excellent performance, and durability at an affordable price. In that same tradition, the Series offers powerful sound, practical function, features, and audio quality at a price that is even harder to beat.

Features

- Very high-SPL, compact two-way stage monitor
- Coaxial 'point source' performance
- Defined, rectangular coverage plane at head-height
- Excellent sound
- Easy to carry and manoeuvre

TECHNIQUE INDEX

Model	MTS-12	MTS-15
System type	Single 12 inch coaxial sound box	Single 15 inch coaxial sound box
Frequency range	70Hz-20kHz(±3dB)	60Hz-20kHz(±3dB)
Frequency response	60Hz-20kHz	70Hz-20kHz
Sensitivity	96dB SPL 1w/1m	97dB SPL 1w/1m
Nominal impedance	8ohms	8ohms
Power rating	300W	350W
Max. SPL@1m	121dB SPL, 127dB SPL Peak	123dB SPL, 129dB SPL Peak
Coverage pattern	90°x 90°	90°x 90°
Input connectors	Double Neutrik® NL4MP	Double Neutrik® NL4MP
Dimension(HxWxD)	475mm x 462mm x 321mm	582mm x 531mm x 374mm
Net weight(each)	16.5kg	23kg



Active Professional Speaker





Possibility to connect with a passive speaker as a slave unit

PT-12C / PT-15C

CHARACTERISTIC:

PT-12C/PT-15C active professional speaker brings wide-coverage, two-way powerful sound to any occasion. The rugged and durable ABS cabinet is loaded with professioanally tuned tweeter, woofer and 2-channel Class-D amplifier along with plenty of versatile audio inputs/outputs, which offers you a high quality sound performance and thrilling auditory experience. You can use it to throw a party, deliver a speech, or give a live performance in a large area.

FEATURES:

- Support Bluetooth, USB, SD card, AUX input, & Mic input
- With 150W@8 ohm amplified speaker output and line output
- 2-way speaker design to ensure optimal sound for both bass and treble
- Separate volume control for master volume, AUX input, bass, treble, microphone & echo.
- Easy to move with 4 wheels"
- The passive version PT-12CP & PT-15CP are also available

TECHNIQUE INDEX

MODEL	PT-12C	PT-15C
Output Power	150W*2	
Speaker Drivers	12 inch woofer, 80 magnet tweeter	15 inch woofer, 80 magnet tweeter
Power Supply	AC 220V-240V, 50Hz	
Audio Inputs	USB, SD card, Bluetooth, Line input (RCA/XLR), MIC input(phone/XLR)	
Audio Outputs	Line output (XLR), 8 OHM speaker output (speakON)	
Audio Control	Mic volume, Echo, AUX volume, Treble, Bass, Master volume	
Special functions	150W speaker output, Recording, Voice Prompt, Microphone Priority	
Cabinet Material	Plastic	
Color	Black	

6.5 inch Active Studio Monitor Speaker at 100W



MV-26



CHARACTERISTIC

With high impact resistance, highly restored sound quality, MV-26 is an active 2-way near-field studio reference monitor speaker designed for applications such as stage, theatre, school, home and karaoke.

Features:

- It is more robust and durable.
- 360°stereo sound with Hi-fi sound quality
- 2-way near-field studio reference monitors
- Suitable for a variety of sound reinforcement of the stage monitoring and various sound reinforcement.
- Tweeter and woofer are perfectly aligned to eliminate crossover and ensure a well-balanced response across the frequencies.

TECHNIQUE INDEX

Model	MV-26
Type	2-way near-field studio reference monitor
Amplifier rated power	100W
Amplifier peak power	160W
LF	1x6.5"
HF	1x1"
LF amplifier power	80W / 4Ω
HF amplifier power	30W / 8Ω
Frequency response	56Hz - 22kHz
Power requirements	110V/220V~50/60Hz
Dimension(WxDxH)	370x240x240mm
Weight	12kg
Color	Black

Wall Speaker 150W at 8 ohms



WP-4120W/B

CHARACTERISTIC:

WP-4120 installed sound-reinforcement loudspeaker features a full-range-driver array, eliminating the need for tweeters and crossovers, to provide unsurpassed reliability and vocal clarity. The Articulated Array design, with wide 120° x 70° coverage, can effectively cover small venues with a single loudspeaker, providing a cost-effective solution for many indoor installed voice-reinforcement applications.

Applications:

- Auditoriums
- Houses of worship
- Restaurants and bars
- Hospitality venues

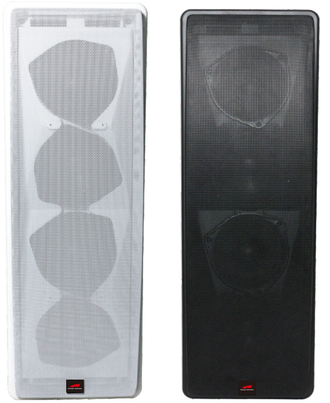
Characteristic:

- Long low impedance speaker with adjusted directivity
- Good for high demand audio environment

TECHNIQUE INDEX

MODEL	WP-4120W/B
Power at 100V	150W at 8 ohm
Power at 70V	NA
SPL(1W/1M)	90dB
Max SPL@ 1M	111dB
Freq. Response	130Hz-15KHz
Dispersion Angel	90x80 degree
Product Size	600x145x170mm
Installation	Wall mounted
Enclosure Material	ABS
Weight	6.8Kg
Finish	White/Black
Speakers	4.5" x5 full range

Wall Speaker 120W at 8 ohms



WP-402W/B

CHARACTERISTIC:

WP-402 installed sound-reinforcement loudspeaker features a full-range-driver array, eliminating the need for tweeters and crossovers, to provide unsurpassed reliability and vocal clarity. The Articulated Array® design, with wide 120° x 60° coverage, can reduce the number of required loudspeakers, while the 73-Hz low- frequency range can reduce the need for subwoofers, providing a cost-effective solution for many indoor or outdoor installed sound-reinforcement applications.

Applications:

- Auditoriums
- Gymnasiums
- Restaurants and bars
- Fitness clubs
- Theme parks
- Outdoor event venues

Characteristic:

- Long low impedance speaker with adjusted directivity
- Good for high demand audio environment

TECHNIQUE INDEX

MODEL	WP-402W/B
Power at 100V	120W at 8 ohm
Power at 70V	NA
SPL(1W/1M)	91dB
Max SPL@ 1M	111dB
Freq. Response	70Hz-15KHz
Dispersion Angel	120x60 degree
Product Size	590x200x200mm
Installation	Wall mounted
Enclosure Material	ABS
Weight	7.2Kg
Finish	White/Black
Speakers	4.5" x4 full range

Ceiling speaker without edge

Applications:

- ABS in ceiling speaker at high performance
- Availabe in 5, 6, and 8 inch
- With 100V line transformer
- Good for PA and BGM

Offer 2 versions with and without transformer;
T means with transformer







CP-520L/T / CP-630L/T
CP-630L/T

TECHNIQUE INDEX

MODEL	CP-520L/T	CP-630L/T	CP-840L/T
Power at 100V	20W	30W	40W
Power at 70V	10W	15W	10W
SPL(1W/1M)	89dB	90dB	90dB
Max SPL@ 1M	100dB	103dB	105dB
Freq. Response	100Hz-20KHz	100Hz-20KHz	50Hz-20KHz
Product Size	Dia 205x85mm	Dia 235x90mm	Dia 281x110mm
Installation	In ceiling mounted	In ceiling mounted	In ceiling mounted
Enclosure Material	ABS	ABS	ABS
Weight	1.3Kg	1.8Kg	2.6Kg
Finish	White	White	White
Speakers	5" coaxial	6" coaxial	8" coaxial

SP Series Power Amplifier





Back

SP14000 / SP9000
SP7000 / SP10000Q

CHARACTERISTIC:

- Class-TD amplifier
- Switch Power
- High-efficicency and great power value
- Work well under low pipe pressure

TEXHNIQUEINDEX

Model	SP14000	SP9000	SP7000	SP-4000	SP-10000Q
Channels	2	2	2	2	4
Peak Power output(all CH driven)	14000W	9000W	7000W	4000W	10000W
Peak Output Voltage (per CH)	195V	170V	155V	121V	150V
Max. output current (per CH)	85A peak	70A peak	59A peak	50A peak	54A peak
Max. Output Power					
16 Ohm per CH(all CH driven)	1200W	800W	730W	400W	660W
8 Ohm per CH(all CH driven)	2350W	1600W	1450W	800W	1300W
4 Ohm per CH(all CH driven)	4400W	3000W	2800W	1600W	2100W
2 Ohm per CH(all CH driven)	7000W	4500W	3500W	2000W	2500W
16 Ohm per CH(Bridge)	4700W	3200W	2900W	1600W	2600W
8 Ohm per CH (Bridge)	8800W	6000W	5600W	3200W	4200W
4 Ohm per CH(Bridge)	14000W	9000W	7000W	4000W	5000W
2 Ohm per CH(Bridge)	/	/	/	/	/
Gain	35dB and VPL:195V	35dB and VPL:170V	35dB and VPL:155V	35dB and VPL:121V	35dB and VPL:150V
1W,20Hz-20KHz THD	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%
1KHz and 1dB below clipping THD	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
SNR	>112dBA	>112dBA	>112dBA	>112dBA	>112dBA
1kHz(CROSSTALK)	>70dB	>70dB	>70dB	>70dB	>70dB
Frequency Response	2Hz-34.2kHz	2Hz-34.2kHz	6.8Hz-34kHz	2Hz-34.2kHz	6.8Hz-34kHz
Input Impedance	20k Ohm	20k Ohm	20k Ohm	20k Ohm	20k Ohm
CMR	54dB	54dB	54dB	54dB	54dB
Output Impedance @100Hz	19m Ohm	19m Ohm	19m Ohm	32m Ohm	32m Ohm
Peak Voltage Limiter(VPL),MAX OUTPUT					
VPL,per channel optional(V)	195.170.140.116. 100.80.66.54V	170.140.116.100. 80.66.54V	155.121.101.83. 70.56.47.38V	121.101.83.70.56. 47.38V	155.121.101.83. 70.56.47.38V
VPL,bridge optional(V)	390.340.280.232. 200.160.132.108V	340.280.232.200. 160.132.108V	310.242.202.166. 140.112.94.76V	242.202.166.140. 112.94.76V	300.242.202.166. 140.112.94.76V
Peak Voltage Limiter mode(Per CH)	Hard / Soft				
Default Gain	38dB	38dB	35dB	35dB	35dB
AMP GAIN(all CH)	23,26,29,32,35,38,41,44 dB				
Level Control(all CH)	"front panel potential device;_from -∞ to 0dB"				
Input Jack(all CH)	3 pins XLR female				
Output Jack(all CH)	Speakon				
Output bridge mode (each two CH)	A+B channel: A is signal input, speaker output connecting A+ and B-,C+D channel C is signal input speaker output connecting C+ and D-				

MA. Power amplifier

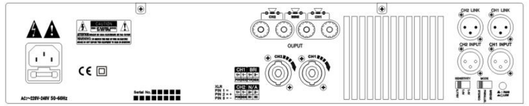


CHARACTERISTIC

- 2U standard
- Large energy power supply , high-efficiency and super ring transformer
- Input signal set 0.775V ,1V and 14V selection switch
- With protection, signal, clip, bridge and power LED
- Lift and right channel with dual polar cooling fan, high-efficiency air cooling channel
- With a power star soft , DC protection , short protection , thermal protection, overload protection

MA-200 / MA-300 / MA-400
MA-600 / MA-800





Back

TECHNIQUE INDEX

Model	MA-200	MA-300	MA-400	MA-600	MA-800
4Ω load	300Wx2	450Wx2	600Wx2	900Wx2	1200Wx2
8Ω load	200Wx2	300Wx2	400Wx2	600Wx2	800Wx2
8Ω bridge load	600W	900W	1200W	1800W	2400W
Frequency response	20Hz-20kHz ±1dB	20Hz-20kHz ±1dB	20Hz-20kHz ±1dB	20Hz-20kHz ±1dB	20Hz-20kHz ±1dB
SNR	＞100dB	＞100dB	＞100dB	＞100dB	＞100dB
Total Harmonic distortion	＜0.01%	＜0.01%	＜0.01%	＜0.01%	＜0.01%
Input impedance	20kΩ	20kΩ	20KΩ	20KΩ	20KΩ
Input voltage	0.775V,1,1.4V	0.775V,1,1.4V	0.775V,1,1.4V	0.775V,1,1.4V	0.775V,1,1.4V
Input connect	XLR	XLR	XLR	XLR	XLR
Output connect	Neutrik Speakon	Neutrik Speakon	Neutrik Speakon	Neutrik Speakon	Neutrik Speakon
Switch mode	Stereo/Bridge/Parallel	Stereo/Bridge/Parallel	Stereo/Bridge/Parallel	Stereo/Bridge/Parallel	Stereo/Bridge/Parallel
Power supply	220V/240V AC50~60Hz	220V/240V AC50~60Hz	220V/240V AC50~60Hz	220V/240V AC50~60Hz	220V/240V AC50~60Hz
Size(L×D×W)mm	380x420x88	482x410x88.9	482x410x88.9	482x470x88.9	482x470x88.9
Weight	10.5kg	13.02kg	14.8kg	19.56kg	22.18kg

MA. Power amplifier

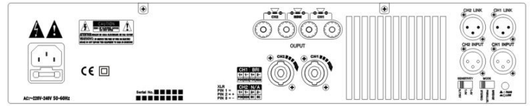


CHARACTERISTIC

- 3U standard
- Large energy power supply , high-efficiency and super ring transformer
- Input signal set 0.775V ,1V and 14V selection switch
- With protection, signal, clip, bridge and power LED
- Lift and right channel with dual polar cooling fan, high-efficiency air cooling channel
- With a power star soft , DC protection, short protection, thermal protection, overload protection

MA-1000 / MA-1200 / MA-1600





Back

TECHNIQUE INDEX

Model	MA-1000	MA-1200	MA-1600
4Ω load	1500Wx2	1800Wx2	2400Wx2
8Ω load	1000Wx2	1200Wx2	1600Wx2
8Ω bridge load	3000W	3600W	4800W
Frequency response	20Hz-20kHz ±1dB	20Hz-20kHz ±1dB	10Hz-20kHz ±1dB
SNR	＞100dB	＞100dB	＞110dB
Total Harmonic distortion	＜0.01%	＜0.01%	＜0.005%
Input impedance	20KΩ	20KΩ	20KΩ
Input voltage	0.775V,1v,1.4v	0.775V,1v,1.4v	0.775V,1v,1.4v
Input connect	XLR	XLR	XLR
Output connect	Neutrik Speakon	Neutrik Speakon	Neutrik Speakon
Switch mode	Stereo/Bridge/Parallel	Stereo/Bridge/Parallel	Stereo/Bridge/Parallel
Power supply	220V/240V AC50~60Hz	220V/240V AC50~60Hz	220V/240V AC50~60Hz
Size(L×D×W)mm	482x470x133	482x470x133	482x470x133
weight	29kg	31kg	36kg

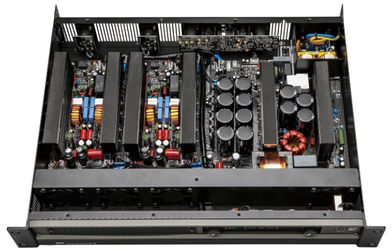
Class TD Digital Switch Power Amplifier

D4 / D6 / D8 / D10





D10/D8 Back



Inside

This switch power amplifier adopts the latest generation of Class-TD module so that the D series has become the most cost-effective power amplifier and favored by professional audio.
The weight is less than 9 kg, thus helping to save a lot in shipping cost; and compact size in 1U and 1.5U to save installation space.

Feature:

- Class-TD power modules
- Switch Power
- Super power high efficient and stable switching power supply
- XLR input and signal link connector
- Speak on NL4 output connectors
- Routing mode selector on the back panel(stereo/bridge/parallel)
- The whole machine is equipped with a high-speed protection of intelligent all-direction electronic circuit.
- Channel independent protection and clip warning indicators on the front panel
- 1U-1.5U low unit weight
- Fresh and sweet sound

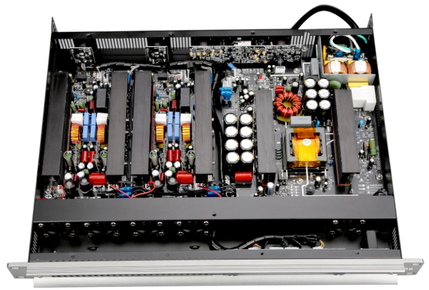
Power amplifier
Power & Grace | Series

Class TD Digital Switch Power Amplifier





D6/D4 Back



Inside

TECHNIQUEINDEX

Model	D4	D6	D8	D10
8ΩStereo	2x450w	2x600w	2x800w	2x1000w
4ΩStereo	2x650w	2x900w	2x1200w	2x1500w
2ΩStereo	2x800w	2x1200w	2x1600w	2x2000w
8ΩBridge	1200w	1800w	2400w	3000w
4ΩBridge	1600w	2400w	3200w	4000w
Frequency Response	20Hz-20KHz,+/-0.5dB			
THD+N	0.20%			
S/N Rate	-95dB			
Daming Factor	>700			
Input Sensitivity	1.0V,1.4V,2.0V			
Input Impedance	20KΩ/10KΩ(Bal/Unbal)			
Cooling	Air flow from front to rear			
Protect	Short circuit,open circuit,thermal,RF protection.On/off muting,DC fault shutdown,active inrush limiting			
Dimensions	483x371.5x44.5mm(1U)		438x368x66mm(1.5u)	
Net Weight	6.8kg	7kg	8.9kg	9kg

The power is tested under the condition of 40ms burst,1KHz sine wave and 1%THD.

Amplifier for Karaoke Room



OK-2000/OK-3000
OK-4000/OK-5000

CHARACTERISTIC

Decades of audio technology experience and innovative karaoke machine craftsmanship ensure providing you with an enhanced long-term stability and reliability wherever your music moment takes you that you'd been missing for the last 20 years.

Features:

- The machine is built on our decades of audio experience of noise cancellation technology that allows you throw yourself into the real world of karaoke free from any background hassle.
- The integrated technique allows this unit to regulate sound effect in a hidden way to ensure customers a simple yet long lasting karaoke companion.
- Built-in digital echo circuit into this unit that enhances any part of your vocal range to be more natural and impressive. Perfectly ideal for home karaoke or karaoke DJ rooms.
- It includes all necessary features for home karaoke such as LCD display, USB input, Bluetooth, FM and much more advanced features.
- The Rec output interface features that you can easily build up your audio system more strongly and powerfully by accessing to any of your external power amplifier and recording equipment with an ease.
- It also features with three MIC interfaces on the front panel, designed with reverberation effect for real and clear sound reflection, which allows you to match the perfectly key of the song to your voice.
- Audio AUX-A/B input switch and audio output of the back panel can be used simultaneously by your external connection to two power amplifiers.

With additional USB, Bluetooth and FM Function



Back

TECHNIQUE INDEX

Model	OK-2000	OK-3000	OK-4000	OK-5000
Output power(8Ω)	200W*2	300W*2	400W*2	500W*2
Total Harmonic Distortion	< 0.01%			
Frequency response	5 Hz to 50 KHz±3 db			
Signal to Noise ratio	- 103 db			
Audio input sensitivity	0.70/50 kΩ			
Video input sensitivity	1 Vp-p / 75Ω			
Auxiliary audio output	0.70 V / 50 kΩ			

Dante Speaker: Dante DP 430

Description

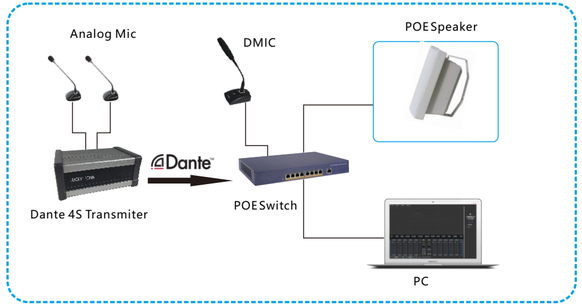
Dante DP PoE Speaker can realize its multifunction the POE power supply or 2 4VDC, audio transmission and signal control via a RJ45 Ethernet port. It can obtain power supply from any Ethernet switch of 802.3 or above standard.

Over Dante™ Ethernet that transmits 24-bit audio (44.1K/48KHz) and its control signal can be routed through the Dante™ Controller. All these functions can perform remotely on the PC or Mac by Dante Controller Software.

Ordering Code

DANTE DP 430:
30W Dante Wall Speaker with External 24V DC power supply
DANTE DP 430 POE:
30W Dante Wall Speaker with POE power supply
DANTE DP 430 POE With DSP:
30W Dante Wall Speaker with POE power supply and DSP

Example Diagram





Dante DP 430

MODEL	Dante DP 430
Input Interface	RJ-45
Audio Input Signal	Dante™ | Balanced amplified signal
Cable	Cat-5 or above
Output Power	30W
Transmission Rate	100M/1000M bps
Frequency Range	80Hz - 20kHz
Sensitivity	90dB 1w/1m
Sound Pressure Level	108dB (peak)
Total Harmonic Distortion	<0.30%
Signal to Noise Ratio	>100dB
Noise Floor	<200uV
System Efficiency	>70%
Enclosure	ABS
Operation Temperature	-10 to 50 Degree
Color	RAL-9010
Dimension	(High)295 x (Width)195 x (Depth)155mm
Net Weight	2.6kg

Dante Speaker: Dante DP 615POE

Description

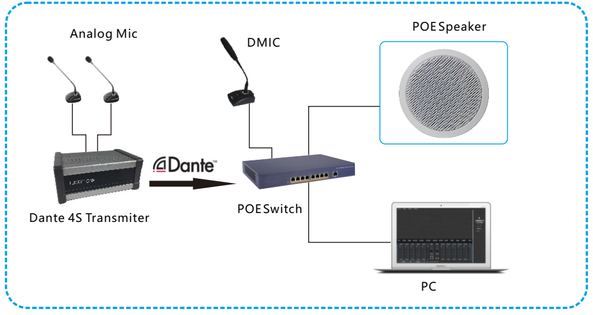
Dante DP PoE Speaker can realize its multifunction the POE power supply or 24VDC, audio transmission and signal control via a RJ45 Ethernet port. It can obtain power supply from any Ethernet switch of 802.3 or above standard.

Over Dante™ Ethernet that transmits 24-bit audio (44.1K/48KHz) and its control signal can be routed through the Dante™ Controller. All these functions can perform remotely on the PC or Mac by Dante Controller Software.

Ordering Code

Dante DP 615:
15W Dante 6-inch Metal Ceiling Speaker with External 24V DC power supply
Dante DP 615 POE:
15W Dante 6-inch Metal Ceiling Speaker with POE power supply

Example Diagram





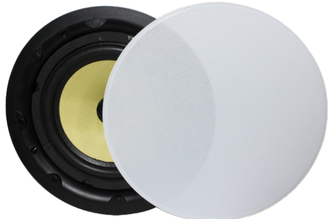
Dante DP 615POE

MODEL	Dante DP 615POE
Input Interface	RJ-45
Audio Input Signal	Dante™ | Balanced amplified signal
Cable	Cat-5 or above
Output Power	15W
Transmission Rate	100M/1000M bps
Frequency Range	80Hz - 18kHz
Sensitivity	91dB 1w/1m
Sound Pressure Level	106dB (peak)
Total Harmonic Distortion	<0.30%
Signal to Noise Ratio	>100dB
Noise Floor	<200uV
System Efficiency	>70%
Enclosure	Metal
Operation Temperature	-10 to 50 Degree
Color	RAL-9010
Dimension	Dia 200 x 90mm
Net Weight	0.95kg

Dante Speaker: DANTE DP 830R

Description

Dante DP PoE Speaker can realize its multifunction the POE power supply or 24VDC, audio transmission and signal control via a RJ45 Ethernet port. It can obtain power supply from any Ethernet switch of 802.3 or above standard.
Over Dante™ Ethernet that transmits 24-bit audio (44.1K/48KHz) and its control signal can be routed through the Dante™ Controller. All these functions can perform remotely on the PC or Mac by Dante Controller Software.



DANTE DP 830R

Ordering Code

DANTE DP 830R:

8-inch 30W Coaxial Rimless Ceiling speaker

DANTE DP 830R POE:

8-inch 30W Coaxial Rimless Ceiling speaker with POE power supply

DANTE DP 830R POE with DSP:

8-inch 30W Coaxial Rimless Ceiling speaker with POE power supply and DSP



MODEL	DANTE DP 830R
Input Interface	RJ-45
Audio Input Signal	Dante™ | Balanced amplified signal
Cable	Cat-6 or above
Output Power	30W
Transmission Rate	100M/1000M bps
Frequency Range	80Hz - 20kHz
Sensitivity	92dB 1w/1m
Sound Pressure Level	108dB (peak)
Total Harmonic Distortion	<0.30%
Signal to Noise Ratio	>100dB
Noise Floor	<200uV
System Efficiency	>70%
Enclosure	ABS
Operation Temperature	-10 to 50 Degree
Color	RAL-9010
Dimension	Dia 283 x 190mm, 8″
Net Weight	3kg

Dante Speaker: DANTE WP 630 POE DSP





DANTE WP 630 POE DSP

Description

Dante DP PoE Speaker can realize its multifunction the POE power supply or 2 4VDC, audio transmission and signal control via a RJ45 Ethernet port. It can obtain power supply from any Ethernet switch of 802.3 or above standard.
Over Dante™ Ethernet that transmits 24-bit audio (44.1K/48KHz) and its control signal can be routed through the Dante™ Controller. All these functions can perform remotely on the PC or Mac by Dante Controller Software.

Ordering Code

DANTE WP 630 POE DSP:

Dante 6-inch Wall speaker with built-in 2x30W amplifier, POE power supply and DSP

WP 630:

30W 6-inch 8ohm passive wall speaker

MODEL	DANTE WP 630 POE DSP
Input Interface	RJ-45
Audio Input Signal	Dante™ | Balanced amplified signal
Cable	Cat-6 or above
Output Power	30W*2
Transmission Rate	100M/1000M bps
Frequency Range	80Hz - 20kHz
Sensitivity	90dB 1w/1m
Sound Pressure Level	108dB (peak)
Total Harmonic Distortion	<0.30%
Signal to Noise Ratio	>100dB
Noise Floor	<200uV
System Efficiency	>70%
Enclosure	ABS
Operation Temperature	-10 to 50 Degree
Color	RAL-9010
Dimension	215*284*190mm
Net Weight	3.5kg

PoE Dante Speaker



Description:

Dante DP3 PoE Speaker can realize its multifunction the POE power supply, audio transmission and signal control via a RJ45 Ethernet port. It can obtain power supply from any Ethernet switch of 802.3 or above standard. Dante DP3 adopts SSA inverter technology allowing that the high-quality enlargement of superior sound quality realizes on this compact speaker of low power design. The system built with plastic body and 4pcs 3 inch high efficient Neodymium driver.

Over Dante™ Ethernet that transmits 24-bit audio (44.1K/48KHz) and its control signal can be routed through the Dante™ Controller. Dante DP3 integrates versatile functions like gain control, mute control, 5-band equalizer control and DSP with limit control. All these functions can perform remotely on the PC or Mac by DS Controller Software.

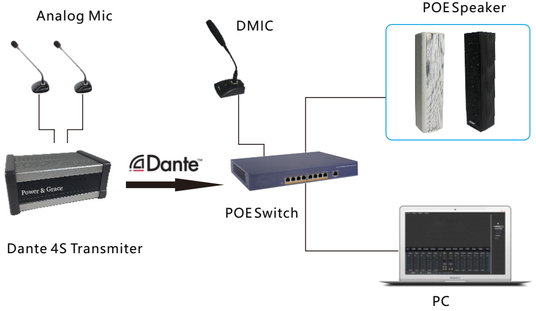
Features:

- Built-in Dante module
- Built-in power amplifier module and its system efficiency > 70%
- DSP controlling software
- PoE power supply
- Over-current protection, Thermal protection and Overload protection

Dante DP3

Black and white color availabe

Example Diagram



TECHNIQUE INDEX

Model	Dante DP3
Input Interface	RJ-45
Audio Input Signal	Dante™ | Balanced amplified signal
Cable	Cat-5 or above
Output Power	100W
Transmission Rate	100M/1000M bps
Frequency Range	20Hz - 20kHz
Sensitivity	95dB 1.0w/1m
Sound Pressure Level	112dB (peak)
Total Harmonic Distortion	<0.30%
Signal to Noise Ratio	>100dB
Noise Floor	<200uV
System Efficiency	>70%
Protective Circuitry	Over-current protection, Thermal protection, Overload protection.
Cooler	Natural convection cooling
Dimension	413(H)x105(W)x118(D)mm
Net Weight	3kg

PoE Dante Mic



DMIC 3



Description:

DMIC Dante Microphone is a type of microphone with built-in Dante module supporting PoE power supply. It can be directly connected to the Dante network, providing you a rewarding experience with extremely low latency, high fidelity and low-cost solution for paging and announcement.

Features:

- Built-in Dante module
- 4 Levels of gain control (-30, -27, -24, -21 dB)
- PoE power supply
- Light touch power button

TECHNIQUE INDEX

Model	DMIC 3
Input	Cat 5 connector
Transmission	Dante Network
Wire range	Cat-5 or above
The Maximum Level	0dBu@+20dB Gain
Gain Control	-30, -27,-24,-21 dB
Balanced Input Impedance	2.2 kΩ
Frequency Response(20~20KHz)	±0.2dB
Power Supply	PoE IEEE802.3af
Signal to Noise Ratio	65dB, 1kHz@1Pa
Power	2.3W

Dante DSP Transmitter

Dante DSP 0404





Dante DSP 0404

Description:

Dante DSP 0404 Transmitter is designed for Dante network audio transmission and routing transfer of high quality and low latency for network audio transmission in multimedia system. DSP 0404 has analog channels of 4 balance input and 4 balance output. Its can also provide with phantom power for your microphone, as well as mute and gain adjustment on PC controlling software.

Features:

- POE power supply & DC12V power supply
- Built-in Dante module
- 4 balance input + 4 balance output
- 48V phantom power supply
- Windows software included

TECHNIQUE INDEX

SPECIFICATIONS	Dante DSP 0404
Dante interface	1
Mixing scale	8X8 mixing scale: 4-channel analog inputs, 4-channel Dante inputs; 4-channel analog outputs, 4-channel Dante outputs.
Digital processing function	Gain adjustment; 5 PEQ; Compressor; Section 31 GEQ,limiter, etc.
Analog max. gain	26dB
Quantification	24-bit
Sample rate	48 k
Frequency response(20~20 KHZ)	±0.2dB
Phantom power (per input)	48V
Max. level (input/output)	+8dBu, balance
THD+N	Less than 0.002% @4dbu
Background noise (A-Weighted)	-97dBu
Input impedance (balance type)	20KΩ
Output impedance (balance type)	100Ω
System latency	1ms
Channel isolation	@1khz 100dB
Power supply	DC 12V & PoE

DCON 2 Dante Wall Control Panel for DANTE DSP 0404

Features:

- Standard 86 back box installation
- 3.5-inch resistive touch screen
- Support TF card upgrade
- Rs485 interface
- Support scene switching, 8 input and output volume adjustment

DCON 2







Dante 2 in 2 out Transmitter
Dante 2by2i/ Dante 2by2i POE







Dante 2by2i
Dante 2by2i POE

Model with "POE" comes with a POE splitter

Features:

- Ideal interface to increase the number of microphones or AUX inputs
- 2 balanced line outputs can be used simultaneously, and all audio channels are used with Dante network.
- 2 balanced MIC/AUX inputs, and also 2 outputs using phoenix connector
- CAT5/6 connector to link with Dante network and controlledby Audinate
- Small size integrated mounting bracket which can be installed in very limited space

SPECIFICATIONS	Dante 2by2i/ Dante 2by2i POE
Input	2 balanced/unbalanced input
Input Impedance	Greater than1800 Ω
Max. Input Level	+8dbu@ 0dB gain
Output	2 balanced/unbalanced output
Output Impedance	200Ω balance
Max. Output Level	+20dbu balance
Freq. Response	20~20KHz, ±1dB
THD	Less than 0.02%
Power Requirements	12V DC 12V DC or POE
Dimensions	123x75x35 mm

Dante 4 in 4 out Transmitter
Dante 4by4i/ Dante 4by4i POE







Dante 4by4i
Dante 4by4i POE

Model with "POE" comes with a POE splitter

Features:

- Ideal interface to increase the number of microphones or AUX inputs
- 4 balanced line outputs can be used simultaneously, and all audio channels are used with Dante network.
- 4 balanced MIC/AUX inputs, and also 4 outputs using phoenix connector
- CAT5/6 connector to link with Dante network and controlledby Audinate
- Small size integrated mounting bracket which can be installed in very limited space

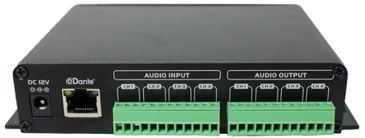
SPECIFICATIONS	Dante 4by4i/ Dante 4by4i POE
Input	4 balanced/unbalanced input
Input Impedance	Greater than1800 Ω
Max. Input Level	+8dbu@ 0dB gain
Output	4 balanced/unbalanced output
Output Impedance	200Ω balance
Max. Output Level	+20dbu balance
Freq. Response	20~20KHz, ±1dB
THD	Less than 0.02%
Power Requirements	12V DC 12V DC or POE
Dimensions	123x75x35 mm

Dante 4 in 4 out Transmitter Dante 4by4/Dante 4by4POE

Features:

- Ideal interface to increase the number of microphones or AUX inputs
- 4 balanced line outputs can be used simultaneously, and all audio channels are used with Dante network.
- 4 balanced MIC/AUX inputs, and also 4 outputs using phoenix connector
- CAT5/6 connector to link with Dante network and controlledby Audinate
- Small size integrated mounting bracket which can be installed in very limited space
- The volume of each channel can be adjusted independently.







Model with “POE” comes with a POE splitter

Dante 4by4
Dante 4by4POE

SPECIFICATIONS	Dante 4by4/Dante 4by4POE	
Input	4 balanced/unbalanced input	
Input Impedance	Greater than1800 Ω	
Max. Input Level	+8dbu@ 0dB gain	
Output	4 balanced/unbalanced output	
Output Impedance	200Ω balance	
Max. Output Level	+20dbu balance	
Freq. Response	20~20KHz, ±1dB	
THD	Less than 0.02%	
Power Requirements	12V DC	12V DC or POE
Dimensions	133 x 100 x 26 mm	

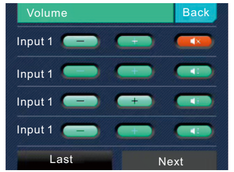
DCON 3 Dante Wall Control Panel

For DSP-880N, 880ND, 1616N, 1616ND

Features:

- Standard 86 back box installation
- 3.5-inch resistive touch screen
- Support TF card upgrade
- Rs485 interface
- Support scene switching, 8 input and output volume adjustment









Dante DSP Controller in audio and video conference



Dante 4 in 4 out Transmitter



Dante 4

Features:

- Dante 4x4 input/output inerface can add 4 channels(input and output) for the existing network audio system at low cost
- Compact design enables being installed near an analog signal source or receiver easily
- **High index DC power is adopted** to the build-in electric microphone

TECHNIQUE INDEX

Model	Dante 4
MIC/Line Input	Balanced type,3 pin interface with RF filter
Input Impedance	Greater than 6800Ω, the gain can be set to any value
Equivalent Input Noise	-115dBu(Gain:+40dB)
Max. Input Level	+8dBu @ 0dB gain, -16dBu @ +25dB gain,-31dBu @ +40dB
Output Type	Balance circuit,it will be mute when loses single of Dante
Output S/N	Less than -90dBu when gain is 0dB
THD	Less than 0.01%
Power Requirements	12V DC
Dimensions	30(H) x 160(W) x 220(D) mm

Dante 8-in 8-out Transmitter



Dante 448

Features:

- Built-in DSP enables signal routing, EQ, limiting, noise gating and programming
- Integrated with Dante audio network port
- 4 Analog input and output;
- 4 Digital input and output for Dante network
- Support software control and programming through
- RS-232 port
- Built-in 8x8 matrix enables seamless mixing and routing for Analog and Digital signals.

TECHNIQUE INDEX

Model	Dante 448
Input	8 balanced/unbalanced input (XLR)
Input Impedance	Greater than 2000 Ω
Max. Input Level	+4dbu@ 0dB gain
Output	8 balanced/unbalanced output (XLR)
Output Impedance	400Ω
Max. Output Level	+4dbu balance
Freq. Response	20~20KHz, ±1dB
S/N Ratio	Greater than 95dB
THD	Less than 0.05%
Power Requirements	12V DC
Dimensions	44(H) x 178(W) x 220(D) mm

Professional Sound Card





DSC-200

Features:

- Adopt high-class DSP chip of high sampling rate and with one stereo and two XLR outputs
- Compact design and convenient to carry
- Built-in headphone output for monitoring and playback
- Quick installation and operation, no need for driver program.

TECHNIQUE INDEX

SPECIFICATIONS	DSC-200
Output	1＊1/4" Stereo; 2＊XLR
Max. Output Level	0dBu
Frequency Response	20~20KHz
Sampling Rate	32/44.1/48KHz
Connection	USB 2.0
Operation System	Windows XP or higher
Power Consumption	2.5W
Gross Weight	1.1 Kg
Dimensions	81(H) x 52(W) x 121(D) mm

Dante Panel 2 Dante Wall Panel 2*2







Dante Panel 2

Description:

Dante Panel series wall-mounted interface machines boast analog input and Dante digital input, analog line output and Dante digital output. The analog inputs support phantom power and manual preamp-gain adjustment. It is suitable for conference room and other professional applications. It available in black and white color.

Model	Dante Panel 2
Sampling	48k@24bit
Phantom power	DC 48V
Frequency response	20Hz-20KHz, ±0.7
THD+N	≤0.005%@1k, ±0.7
Digital-to-analog/analog-to digital dynamic range(A-weighted)	105dB
Input/output impedance(balance-type)	20kΩ/100Ω
EIN(A-weighted)	≤-126dBu
Channel isolation	100dB@1kHz
Common mode rejection (CMR)	80dB@80Hz
Max. input/output level	8dBu/12dBu
Background noise	-93dBu
System delay	≤3ms
Operating power supply	PoE
Operating temperature	0-40℃

8 In 8 out DSP audio processor with Dante DSP-880ND





Description:

The DSP-880ND audio processor combines Auto Mixer, Matrix Mixer, Feedback suppressor and Dante audio networking in one purpose-built DSP processor. The DSP-880ND includes 8 mic/line analog inputs, 8 analog outputs to meet the needs of a wide range of audio processing applications such as boardroom, medium/large conference rooms, courtrooms, auditoriums and multi-purpose halls.

Features:

- 8-channel analog input and 8-channel analog output, Microphone or Line in switch
- +48V switch per input channel
- AFC in each input
- AUTO-MIX and MATRIC-MIX
- 31 PEQS per input and 10 PEQS per output
- USB free driver connect, RS232/485 connector for center control

SPECIFICATIONS	DSP-880ND
Input Channels	8 balanced. Mic/line level
Connectors	3.81 mm Phoenix Contact, 12-pin
Input Impedance	11.5KΩ
Maximum Input Level	14dBu/Line, -7dBu/Mic
Phantom Power	+48VDC, 10mA, selectable per input
Output Channels	8 balanced, line level
Output Impedance	150Ω
Frequency Response	20Hz-20kHz(+-0.5dB)/Line 20Hz-20kHz(+-1.5dB)/Mic
THD+N	-90dB(@12dBu,1kHz,A-wt)/Line -86dB(@-7dBu,1kHz,A-wt)/Mic
SNR	105dB(@12dBu,1kHz,A-wt)/Line 95dB(@-7dBu,1kHz,A-wt)/Mic
USB	Micro-B type, free driver
RS232	Serial port communication
TCPIP	RJ-45, Optional
LED Status Indicators	Power, Link, +48V, Input and Output Audio signal
Mains Voltage	AC100V~~~240V 50/60 Hz
Dimensions	44mmx483mmx210mm
Net Weight	2.8kg
Operating Temperature	-20℃~80℃
Cooling System	Active, Fan inside
Integrated DSP	
Signal Processor	Signal Processor32-bit fixed/floating-point DSP 300MHz
Audio Latency	Audio Latency< 1ms
A/D and D/A Converters	A/D and D/A Converters24-bit
Sample Rate	48KHz

8 In 8 out DSP audio processor DSP-880N





Description:

The DSP-880N audio processor combines Auto Mixer, Matrix Mixer, and Feedback suppressor in one purpose-built DSP processor. The DSP-880N includes 8 mic/line analog inputs, 8 analog outputs to meet the needs of a wide range of audio processing applications such as boardroom, medium/large conference rooms, courtrooms,

Features:

- 8-channel analog input and 8-channel analog output, Microphone or Line in switch
- +48V switch per input channel
- AFC in each input
- AUTO-MIX and MATRIC-MIX
- 31 PEQS per input and 10 PEQS per output
- USB free driver connect, RS232/485 connector for center control

SPECIFICATIONS	DSP-880N
Input Channels	8 balanced. Mic/line level
Connectors	3.81 mm Phoenix Contact, 12-pin
Input Impedance	11.5KΩ
Maximum Input Level	14dBu/Line, -7dBu/Mic
Phantom Power	+48VDC, 10mA, selectable per input
Output Channels	8 balanced, line level
Output Impedance	150Ω
Frequency Response	20Hz-20kHz(+-0.5dB)/Line 20Hz-20kHz(+-1.5dB)/Mic
THD+N	-90dB(@12dBu,1kHz,A-wt)/Line -86dB(@-7dBu,1kHz,A-wt)/Mic
SNR	105dB(@12dBu,1kHz,A-wt)/Line 95dB(@-7dBu,1kHz,A-wt)/Mic
USB	Micro-B type, free driver
RS232	Serial port communication
TCPIP	RJ-45, Optional
LED Status Indicators	Power, Link, +48V, Input and Output Audio signal
Mains Voltage	AC100V~~~240V 50/60 Hz
Dimensions	44mmx483mmx210mm
Net Weight	2.8kg
Operating Temperature	-20℃~80℃
Cooling System	Active, Fan inside
Integrated DSP	
Signal Processor	Signal Processor32-bit fixed/floating-point DSP 300MHz
Audio Latency	Audio Latency< 1ms
A/D and D/A Converters	A/D and D/A Converters24-bit
Sample Rate	48KHz

16 In 16 out DSP audio processor with Dante DSP-1616ND





Description:

The DSP-1616ND audio processor combines Auto Mixer, Matrix Mixer, Feedback suppressor and Dante audio networking in one purpose-built DSP processor. The DSP-1616ND includes 16 mic/line analog inputs, 16 analog outputs to meet the needs of a wide range of audio processing applications such as boardroom, medium/large conference rooms, courtrooms, auditoriums and multi-purpose halls.

Features:

- 16-channel analog input and 16-channel analog output, Microphone or Line in switch
- +48V switch per input channel
- AFC in each input
- AUTO-MIX and MATRIC-MIX
- 31 PEQS per input and 10 PEQS per output
- USB free driver connect, RS232/485 connector for center control

SPECIFICATIONS	DSP-1616ND
Input Channels	16 balanced. Mic/line level
Connectors	3.81 mm Phoenix Contact, 12-pin
Input Impedance	11.5KΩ
Maximum Input Level	14dBu/Line, -7dBu/Mic
Phantom Power	+48VDC, 10mA, selectable per input
Output Channels	16 balanced, line level
Output Impedance	150Ω
Frequency Response	20Hz-20kHz(+-0.5dB)/Line 20Hz-20kHz(+-1.5dB)/Mic
THD+N	-90dB(@12dBu,1kHz,A-wt)/Line -86dB(@-7dBu,1kHz,A-wt)/Mic
SNR	105dB(@12dBu,1kHz,A-wt)/Line 95dB(@-7dBu,1kHz,A-wt)/Mic
USB	Micro-B type, free driver
RS232	Serial port communication
TCPIP	RJ-45, Optional
LED Status Indicators	Power, Link, +48V, Input and Output Audio signal
Mains Voltage	AC100V~~240V 50/60 Hz
Dimensions	44mmx483mmx210mm
Net Weight	2.8kg
Operating Temperature	-20℃~80℃
Cooling System	Active, Fan inside
Integrated DSP	
Signal Processor	Signal Processor32-bit fixed/floating-point DSP 300MHz
Audio Latency	Audio Latency< 1ms
A/D and D/A Converters	A/D and D/A Converters24-bit
Sample Rate	48KHz

16 In 16 out DSP audio processor DSP-1616N





Description:

The DSP-1616N audio processor combines Auto Mixer, Matrix Mixer, and Feedback suppressor in one purpose-built DSP processor. The DSP-1616N includes 16 mic/line analog inputs, 16 analog outputs to meet the needs of a wide range of audio processing applications such as boardroom, medium/large conference rooms, courtrooms, auditoriums and multi-purpose halls.

Features:

- 16-channel analog input and 16-channel analog output, Microphone or Line in switch
- +48V switch per input channel
- AFC in each input
- AUTO-MIX and MATRIC-MIX
- 31 PEQS per input and 10 PEQS per output
- USB free driver connect, RS232/485 connector for center control

SPECIFICATIONS	DSP-1616N
Input Channels	16 balanced. Mic/line level
Connectors	3.81 mm Phoenix Contact, 12-pin
Input Impedance	11.5KΩ
Maximum Input Level	14dBu/Line, -7dBu/Mic
Phantom Power	+48VDC, 10mA, selectable per input
Output Channels	16 balanced, line level
Output Impedance	150Ω
Frequency Response	20Hz-20kHz(+-0.5dB)/Line 20Hz-20kHz(+-1.5dB)/Mic
THD+N	-90dB(@12dBu,1kHz,A-wt)/Line -86dB(@-7dBu,1kHz,A-wt)/Mic
SNR	105dB(@12dBu,1kHz,A-wt)/Line 95dB(@-7dBu,1kHz,A-wt)/Mic
USB	Micro-B type, free driver
RS232	Serial port communication
TCPIP	RJ-45, Optional
LED Status Indicators	Power, Link, +48V, Input and Output Audio signal
Mains Voltage	AC100V~~240V 50/60 Hz
Dimensions	44mmx483mmx210mm
Net Weight	2.8kg
Operating Temperature	-20℃~80℃
Cooling System	Active, Fan inside
Integrated DSP	
Signal Processor	Signal Processor32-bit fixed/floating-point DSP 300MHz
Audio Latency	Audio Latency< 1ms
A/D and D/A Converters	A/D and D/A Converters24-bit
Sample Rate	48KHz

POE Network Switch with 8 POE ports



TL-SG2210PE

Description

Suitable for All ECO IP POE products and Dante POE speakers at 30W and below, TL-SG1210PE is a full-Gigabit non-network-managed PoE switch. Complied with IEEE 802.3af/at standard, ports 1 to 8 support PoE+ function, and single-port PoE power can reach 30W. The maximum PoE output power of the whole machine reaches 121W.
As a PoE power supply device, TL-SG1210PE can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable.
Plug and play, easy to use, suitable for hotels, campuses, factory quarters and small and medium-sized enterprises to build a cost-effective PoE network.



- Nine 10/100/1000M adaptive RJ45 ports.
- One Gigabit SFP fiber module expansion slot.
- Eight Gigabit RJ45 ports support IEEE 802.3af/at standard PoE power supply.
- Single port power supply up to 30W, total power supply up to 121W.
- Supports IEEE802.3X full-duplex flow control and Backpressure half-duplex flow control
- Support port auto-flip (Auto MDI/MDIX) function All ports have wire-speed forwarding capability
- Built-in switching power supply board

MODEL	TL-SG2210PE
Transmission Rate	10/100/1000Mbps
Communication Mode	Full-Duplex & Half-Duplex
PoE Port Power	30W
Bandwidth	20Gbps
Address Database size	4K
Ports	8
Total power	121W
Power Input	AC 220V, 50/60Hz
Working Temperature	0-40℃
Network standard	IEEE 802.3、IEEE 802.3u、IEEE 802.3ab、IEEE 802.3x、IEEE 802.3af、IEEE 802.3at
Dimension	294×180×44mm

POE Network Switch with 4 High-Power PoE Ports



TL-POE 60

Description

Suitable for Dante POE speakers at more than 30W, TL-POE 60 is a full-Gigabit non-network-managed PoE switch. Complied with IEEE 802.3af/at standard, ports 1 to 4 support PoE+ function, and single-port PoE power can reach 60W. The maximum PoE output power of the whole machine reaches 250W.
As a PoE power supply device, TL-POE 60 can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. Plug and play, easy to use, suitable for hotels, campuses, factory quarters and small and medium-sized enterprises to build a cost-effective PoE network.



- Can supply power to network surveillance cameras that without PoE function.
- 5x 10/100Mbps auto-sensing RJ45 ports, 4x 10/100Mbps PoE ports, 1x Uplink port.
- Supports port auto-flip (Auto MDI/ MDIX).
- Maximum of Single PoE port power: 60W. Total Power: 250W, external power supply.
- Adopts store-and-forward architecture.
- Features with fanless, natural cooling, small, compact and quiet design, suitable for desktop or wall.
- Built-in 1U rack power supply series, easy to place it into standard mounting brackets.

MODEL	TL-POE 60
Transfer Mode	Store-And-Forward
Transmission Rate	10/100Mbps
Network Medium	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or more UTP (≤100 meter)
Communication Mode	Full-Duplex & Half-Duplex
Switch Capacity	1.25Gbps
PoE Port Power	60W
Bandwidth	1.6Gbps (non-blocking)
Network Latency (100 to 100M bps)	less than 20μs
Address Database size	1K
Ports	9
Function	LACP, POE, QoS, SNMP, Stackable, VLAN Support
Total power	250W
Power Input	AC100-240V 50/60Hz
Dimension & Weight	118x89x25mm, 0.24kg
Working Environment	Operating Temperature: -20°~55° C Storage Temperature: -20°~75° C Operating Humidity: 10%~95%, non-condensing

Programmable Power Sequencer



ST-1602



Back

CHARACTERISTIC

Spirit ST-1602 is 16-channel wide range power sequence of integrated central control, mainly for audio sequence of complex power equipment. It is ideal for public broadcasting, outdoor performances, school lecture room, multimedia conference hall, multi-function hall, training center, villas, hotels, or intelligent Home Furnishing etc.

Features:

- Sequencing for ON, Invert-sequencing for OFF.
- PASS button to turn on all channels simultaneously.
- COM/WIFI/WAN Ethernet access control or software control
- Adjustable time interval
- Selectable channel close
- ID:0-255 stack machine
- External control
- Voltage indicator
- Electric leakage protection & overcurrent protection
- Independent close of panel channel
- Single channel independent switch: configurable on panel control or software settings
- Short circuit, Overcurrent protection(circuit breaker configuration) is based on null and live line, circuit breaker starts the electric leakage protection in 30MA/T<=0.1s, and overcurrent protection at 63A.

TECHNIQUE INDEX

Model	ST-1602
Panel color	Black
Power requirement (single phase 3-wire)	AC90-260V 50-60Hz two phase (null line, live line, ground wire)
Channel number	16-way socket relay in straight-through connection with 2-way socket
Max. withstanding output reactive power of single channel or overall channel (Relay in control)	1000W/7000W
Output power socket	of American standard that ABS material of inflaming retarding, phosphor copper material that can withstand the maximum current of 10A.
Circuit board	fibreboard on both sides, the main power line of bold thickening
Output relay contact current	30A 277VAC
Power supply	built-in switching power supply; voltage AC90-260V 50-60Hz
Open type	Push-button tact switch
External switching control interface	RS232 COM interface /WAN Ethernet /WIFI
Voltage indicator	digital voltmeter
cascade function	Yes
Control method & the number of ID allocation	command code & control software for central control, ID:0-255
Power source filter (EMI power grid filter)	N/A
Product size(LxWxH)	480x88.5x280mm (standard 2U)
Package size(LxWxH)	550x350x150mm (kraft box or color printing box)
4-packed package	31KG
packing size(LxWxH)	590x390x190mm
Gross weight	6.5KG

Power Sequencer with EMC Filter



ST-102

CHARACTERISTIC

Spirit ST-102 is 8-channel wide range power sequencer, mainly for audio sequence of complex power equipment. It is ideal for public broadcasting, mini bar, small outdoor performances, the school lecture room, multimedia conference hall, multi-function hall, training center, villas, hotels, or Home Furnishing etc.

Features:

- Sequencing for ON, Invert-sequencing for OFF.
- PASS button to turn on all channels simultaneously.
- Voltage indicator
- With EMC filter, reducing noise produced by electric current, thus streaming clear sound.

EMC filter to improve amplifier sound quality

With universal and American power plug



Back

TECHNIQUE INDEX

Model	ST-102
Panel color	Black
Power requirement (single-phase & 3-wire)	AC90-260V 50-60HZ two phase (null line, live line, ground wire)
Channel number	8 way socket relay in control
Max. withstanding output reactive power of single channel or overall channel (Relay in control)	1500W/6000W
Output power socket	of a standard multi-purpose socket that ABS material of inflaming retarding, and phosphor copper material that can withstand the maximum current of 13A
Circuit board	fibreboard on both sides, the main power line with bold thickening
Output relay contact current	30A 277V AC
Power supply	built-in switching power supply, voltage AC90-260V 50-60Hz
Open type	key-lock switch
Switch interval / timing(per channel)	1 second (default value)
Uplink	optional
Voltage display	red (digital voltmeter display)
Main cable	3*4 square, a total length of 1.2 meters (power input plug not included)
Power source filter (EMI power grid filter)	No
Product size(LxWxH)	480x185x48mm (non-standard 1U)
Single-packed package size	510x260x10mm (kraft box)
Five-packed package	530x280x550mm
Gross weight	3.8KG

8 Channel power sequence controller



ST-338S



Back

CHARACTERISTIC

Spirit ST-388S is 8-channel wide range power sequence controller, mainly for audio sequence of complex power equipment. It is ideal for public broadcasting, mini bar, small outdoor performances, the school lecture room, multimedia conference hall, multi-function hall, training center, villas, hotels and Home Furnishing etc.

Features:

- Sequencing for ON, Invert-sequencing for OFF.
- PASS button to turn on all channels simultaneously.
- Stack machine
- External control interface
- Voltage indicator

TECHNIQUE INDEX

Model	ST-338S
Panel color	Black
Power requirement (single-phase & 3-wire)	AC90-260V 50-60Hz two phase (null line, live line, ground wire)
Channel number	8 way socket relay in control
Max. withstanding output reactive power of single channel or overall channel (Relay in control)	2000W/6000W
Output power socket	of universal socket standard that flame retardant ABS material, and phosphor copper material that can withstand the maximum current of 13A
Circuit board	fibreboard on both sides, the main power line with bold thickening
Output relay contact current	30A 277V AC
Power supply	built-in switching power supply
Voltage	AC90-260V 50-60HZ
Open type	circular switch
Switch interval / timing(per channel)	1 second (default value)
Cascade function	Yes
External control switch interface	Yes
Voltage display	liquid-crystal display voltmeter (blue or orange background with white text in display)
Main cable	3*4 square, a total length of 1.2 meters (power plugs not included)
Power source filter (EMI power grid filter)	N/A
Product size(LxWxH)	480x185x48mm (non-standard 1U)
Single-packed package size	510x260x10mm (kraft box)
Five-packed package	19KG, 530x280x550mm
Gross weight	3.8KG

8 Channel power sequence controller



ST-328E



Back

CHARACTERISTIC

Spirit ST-328 is 8-channel wide range power sequence controller, mainly for audio sequence of complex power equipment. It is ideal for public broadcasting, bar, outdoor performances, school lecture room, multimedia conference hall, multi-function hall, training center, villas, hotels or intelligent Home Furnishing etc.

Features:

- Sequencing for ON, Invert-sequencing for OFF.
- PASS button to turn on all channels simultaneously.

TECHNIQUE INDEX

Model	ST-328E
Panel color	Black
Power requirement (single-phase & 3-wire)	AC90-260V 50-60Hz two phase (null line, live line, ground wire)
Channel number	8 way socket relay in control
Max. withstanding output reactive power of single channel or overall channel (Relay in control)	1500W/5000W
Output power socket	of universal socket standard that flame retardant ABS material, and phosphor copper material can withstand the maximum current of 13A.
Circuit board	single-sided fibreboard, the main power line of bold thickening
Output relay contact current	30A 277V AC
Power supply	built-in switching power supply
Voltage	AC90-260V 50-60Hz
Open type	key-lock switch
Switch interval / timing(per channel	1 second (default value)
Main cable	3*4 square, a total length of 1.2 meters (power plugs not included)
Product size(LxWxH)	480x245x48mm (non-standard 1U)
Single-packed package size	520x320x95mm (kraft box or color printing box)
Five-packed package	22KG, 533x340x482mm
Gross weight	4.2KG

Dual channel 31 band Graphic Equalizer



1231



Back

CHARACTERISTIC

This EQ Series were designed to meet the needs of the most demanding sound reinforcement environments, while offering the simplicity of straightforward controls. The 1231 provides standard features like dual-channels, 31 1/3 octave bands, ISO frequency centers, +/- 12 dB input gain range, and switchable 40Hz/18 dB per octave low-cut filters, but also includes other insightful features.

Features:

- Switchable boost/cut ranges of ±6 or ±15 dB
- Electronically balanced/unbalanced inputs
- Servo balanced/unbalanced outputs
- RF filtered inputs and outputs
- XLR, Barrier Strip, and 1/4" TRS connectors
- -12dB/+12dB input gain range
- 18dB/octave 40Hz Bessel low-cut filter
- Chassis/signal ground lift capability
- Internal power supply transformer
  Power-off hardwire relay bypass with 2-second power-up delay

TECHNIQUE INDEX

Model	1231
Input interface	1/4inch TRS, XLR socket (positive, female), strip terminal
Type	electronically balance/unbalance, with RF filtering
Impedance	40 kΩ balanced, 20 kΩ unbalanced
Maximum input level	>+21dBu, balanced or unbalanced
Co-simulation ratio	>40dB (typical value: >55dB, 1KHz)
Output port	1/4 inch TRS, XLR socket (positive feet), strip terminal
Type	balanced/unbalanced impedance, with RF filtering
Impedance	200Ω balanced, 100Ω unbalanced
Maximum input level	> + 21, 2 kΩ balanced/unbalanced
CMMR	18dBu, 600Ω load(balanced or unbalanced)
Bandwidth	20Hz-20KHz, + 0.5db / -1db
Frequency response	
Dynamic range	109dB-115dB
Signal-to-noise ratio	90dB-97dB
Total harmonic distortion + noise	< 0.005%
Inter-channel crosstalk	< -80db, 20Hz-20KHz
Equalizing bypass	bypass the equalizing portion of the signal path
Low frequency switching (covert)	40Hz 18dB/oct Bessel high pass filter
Range (hidden)	±6dB or ±15dB
Indicator	
Output level	4-led strip indicator (Green, Green, Yellow and Red) -10, 0, +10 and +18dBu respectively bypass
Balanced bypass	one LED: red
Clipping indicator	one LED: red
Low frequency switching	red +/6dB, LED:,Yellow ±15dB, LED: red
Power supply	
Working voltage	230VAC 50Hz
Power consumption	24W
Power interface	IEC plug

Dual channel 31 band Graphic Equalizer



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CHARACTERISTIC

The 2-Series represents a major step forward in the performance of entry-level graphic equalizers. From its amazing 10Hz to 50kHz frequency response, to its 108dB dynamic range and internal toroidal transformer, the 2-Series suitable for the studio, on tour and with installed sound venues.

Features:

- Stereo sound or ultra-low sound synthesized by adding left and right channels
- Both channels have x10 range selector switches
- 40Hz high-pass filters on all channel(low frequency resection)
- Phase reversal switches on all output
- The output level of all frequencies can be adjusted independently
- 24dB nkwitz-riley filter (professional standard)
- LED Indicator: Stereo or Mono mode

TECHNIQUE INDEX

Model	231
Input	
Connector	1/4 "TRS, (female) XLR (2-pin wire)
Type	electronically balance/imbalance, RF filtering Impedance: 40 kΩ balance, 20 kΩ imbalance
Maximum input level	>+21dBu balance or imbalance
Output	
Connector	1/4 "TRS, (common) XLR (2 foot hot end)
Type	balanced/unbalanced impedance, RF filtering
Impedance	100Ω balance, 50Ω imbalance
Maximum input level	> + 21dBu to 2kΩ balance or imbalance > + 18 dBm to 600Ω balance or imbalance
System feature	
Bandwidth	20 Hz-20 KHz, +0.5/-1 dB
Frequency response	10 Hz to 50KHz; 0.5 + / - 3 db
Dynamic range	108dB
Signal to noise ratio	90dB
Internal crosstalk	< -80db, 20Hz-20KHz
Total harmonic distortion + noise	<0.004%
Switch function	
EQ bypass	pictorial equalizer of the signal path
Low cut	131/215:50Hz, 12dB/ low-cut octave filter 231:40Hz, 12dB/ low-cut octave filter
Measurement Range	±6dB or±12dB
Power supply	
Operating voltage	100V/AC, 50Hz/60Hz 120 V/AC 60 Hz 230 V/AC 50 Hz/60 Hz
Power consumption	131/215:12W 231:15W
Power connection	IEC power socket

Mixer Karaoke with 99 DSP effects



DSP-99

Features:

- 99 kinds of digital reverberation effects
- Music thrilling effect
- Built-in electronic frequency divider, realizing ultra-low sound audio output (crossover point adjustable)
- 5 microphone inputs
- 2 signal inputs (switchable)
- Independent Adjustment: Music, Reverberation(volume, depth, time), Microphone (volume, treble, bass)



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TECHNIQUE INDEX

Model		DSP-99
Frequency response	Microphone	20HZT015KHZ. + 0/13db
	Music	20 hzt015khz. + 0 / - 3 db
Tone control range		11STEPS.±21/2TONE
LF		±10dB(100Hz)
HF		±10dB(100Hz)
Effect echo response		Max. 0-196MS
Ultra-low sweep		50HZ-250HZ

Microphone Professional Actuator vocal Instrument sound Optimizer



EX-3000

Features:

- Stereo high-low frequency sound
- System load reduction by eliminating unwanted low-frequency signal
- Selectable Center frequency of high frequency pumping(from 1K to 8KHz)
- Independent high and low frequency design



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TECHNIQUE INDEX

Model	EX-3000
Balanced input/output	
Signal-to-noise ratio (A weighted)	>93dB
Frequency response	20KHz(+/-0.3db)
Maximum audio resolution	+13dB
Maximum low frequency compensation	+13dBu
Input impedance	20K balanced/10K unbalanced
Output impedance	300K balanced/ 150K unbalanced

Dual-Channel Feedback Suppressor



S2.0



Back

CHARACTERISTIC

S2.0 is a dual-channel feedback suppression processor with all the features you would expect from a professional product.

Features:

- 2 in 2 out microphone start-up automatically anti-howling effect
- Stereo or Dual Independent Channel Processing
- Live and Fixed Filter Modes
- Selectable Filter Lift Times

TECHNIQUE INDEX

Model	S2.0
Power supply	AC~ 220v-230v, 50/60hz
Frequency shift	5Hz±1Hz
Transmission gain	5-14dB
Line input impedance	≥5KΩ
Line output impedance	≤600Ω
Frequency response	non-shift frequency: 20Hz-20KHz shift frequency: 150Hz-15KHz

Advanced Feedback Suppression Processor



AFS-223

CHARACTERISTIC

A dual channel crossover with all the features you would expect from a professional product. They feature Linkwitz-Riley 24dB per octave filters, independent output gain controls for level matching, output phase inversion, 40 Hz low cut filter, and optional mono summing of the low frequency (subwoofer) output. Everything in the design exudes great precision from the solid “click” controls to the high quality ¼” inputs and outputs.

Features:

- Full LCD Display
- 24 Programmable Filters per Channel
- Stereo or Dual Independent Channel Processing
- Live and Fixed Filter Modes
- Selectable Filter Lift Times
- Application-specific filter types include: Speech and Music Low,
- Med and High
- Input channel Metering
- 24 LED per Channel Filter Metering
- XLR and TRS Inputs and Outputs



Back

TECHNIQUE INDEX

Model	AFS-223
Frequency response	20Hz~20KHz (non-shift frequency) 80Hz~18KHz (shift frequency)
Frequency control range	10-fold selector switch (frequency range selection) X1 (100Hz~2KHz), x10 (1KHz~20KHz)
Equilibrium frequency range	100Hz~20KHz
Channel attenuation	0~ -15dB
Fixed bandwidth	low-frequency 0.03 octave
Frequency shift	5Hz±0.3Hz
System gain	3dB-8dB
Non-linear distortion	≤0.3%
Noise level	Line output <0.6mV
3 MIC input	
Input level	100 mV
Input impedance	600Ω
Power supply	AC220V / 50 Hz

Stereo 2-Way/Mono 3-Way Crossover with XLR Connectors



223XL

Features:

- XLR balanced ins and outs
- Mode switch for stereo 2-way or mono 3-way operation
- TRS or XLR balanced input and output differential pair.
- Stereo sound or ultra-low sound synthesized by adding left and right channels.
- x10 range switches and a 40Hz high pass filter (low-frequency cut) on both channel.
- All outputs have phase reversal switches. (The output level on all frequency range can be independently adjusted by dB/oct Linkwitz-riley filter.)
- LED indicator of Stereo/Mono mode.



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TECHNIQUE INDEX

Model	223XL
Input Interface	1/4 inch TRS
Type	electronic balance/imbalance with RF filter
Impedance	> 50k ohm balanced, > 25k ohm unbalanced
Maximum input level	> +24dBu balance/imbalance
CMRR	> 40dB (typical value: > 50dB, 1kHz)
Output	
Interface	1/4 inch TRS
Type	balanced/imbalanced impedance with RF filter
Impedance	200 ohms balanced, 100 ohms unbalanced
Maximum output level	over 2k ohm load, >+21dBu balanced or imbalanced
Working performance	
Bandwidth	20Hz-20KHz, +0/ -0.5dB
Frequency response	< 3Hz-90KHz, +0/ -3dB
Signal to noise ratio	+4dBu, 22kHz (reference measurement bandwidth)
Modes	Stereo mode; Mono mode
Low frequency output	> 94dB
Medium frequency output	> 93dB
High frequency output	> 92dB
Dynamic range	> 114dB, unweighted: any output
Distortion + noise	< 0.004%+4dBu, 1kHz< 0.04% + 20 is a 1 kHz
Inter-channel crosstalk	< -80dB, 20Hz-20kHz

Stereo 2/3 Way, Mono 4-Way Crossover with XLR Connectors





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234XL

Features:

- XLR balanced ins and outs
- Mode switches for mono 4-way or stereo 2-way/3-way operation
- TRS or XLR balanced input and output differential pair.
- Stereo sound or ultra-low sound synthesized by adding left and
- right channels.
- x10 range switches and a 40Hz high pass filter (low-frequency cut) on both channel.
- All outputs have phase reversal switches. (The output level on all frequency range can be independently adjusted by dB/oct
- Linkwitz-riley filter.)
- LED indicator of Stereo/Mono mode.

TECHNIQUE INDEX

Model	234XL
Interface	1/4 inch TRS
Type	balanced/imbalanced impedance with RF filter
Impedance	200 ohms balanced, 100 ohms unbalanced
Maximum output level	over 2k ohm load, >+21dBu balanced or imbalanced
Input Connectors	XLR
Input Type	Electronically balanced/unbalanced, RF filtered
Input Impedance	Balanced >50k ohm, unbalanced >25k ohm
Max Input	>+21dBu balanced or unbalanced
CMRR	>40dB, typically >50dB at 1kHz
Output Connectors	XLR
Output Type	Impedance-balanaced/unbalanced, RF filtered
Output Impedance	Balanced 200 ohm, unbalanced 100 ohm
Max Output	>+21dBu balanced/unbalanced into 2k or greater
Bandwidth	20Hz to 20kHz, +/-0.5dB
Frequency Response	< 3 Hz to > 90 kHz, +0/-3 dB
Signal to Noise Ratio	Ref: +4 dBu, 22 kHz measurement bandwidth
Signal-to-Noise (Stereo Mode)	>94dB (Low Output), >93dB (Mid Output), >92dB (High Output)
Signal-to-Noise (Mono Mode)	>94dB (Low Output), >94dB (Low/Mid Output), >92dB (High/Mid Output)
Dynamic Range	> 114 dB, unweighted, any output
THD+Noise	< 0.004% at +4 dBu, 1 kHz; < 0.04% at +20 dBu, 1 kHz
Interchannel Crosstalk	< -80 dB, 20 Hz to 20 kHz

10-Way divider Audio distributor audio signal distributor





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FS-206

Features:

- 6 output branches
- Level can be independently adjusted
- Single channel input 12 output branches
- Level can be independently adjusted

TECHNIQUE INDEX

Model	FS-206
Input impedance	50 KΩ balanced, 25 KΩ unbalanced
Maximum input impedance	21dBu balanced/unbalanced
Output impedance	220Ω unbalanced
Frequency response	0.35 Hz-220KHz, +0/-3dB
Signal-to-noise ratio	>+100dBu, unweighted, 22Hz-22KHz
Harmonic distortion	0.04% (Typically @+4dBu,1KHz,Gain)
Ac voltage	100 ~ 120/60Hz or 200 ~ 240/50Hz VAC
Packaging size	560*250*95mm
Net weight	2.2Kg
Gross weight	2.7 Kg

Professional Frequency Shifter





Back

SM-2600

Features:

- Balanced microphone input
- Bass & Treble adjustment
- 48V switch

TECHNIQUE INDEX

Model	SM-2600
Power supply	AC220V/50Hz
Line	dual channel, balanced input/output
Frequency-shift switch	
Shift frequency	50 Hz±1 Hz
Line-input impedance	> 5 kΩ
Transmission gain enhancement	6~10dB
Frequency response	20Hz~20KHz(non-shift state) 150Hz~15KHz(shift state)

Karaoke Professional Digital Audio Processor



X5

Features:

- Professional karaoke, stage, power amplifier, audio reverberation effector
- Karaoke effector with the function of speaker processor independently adjustable for each part of functions.
- Adopt 2Bit DataBus and 32Bit DSP.
- Music of 7 band parametric EQ. Music-main output high pass filter: 12dB/24dB(0Hz-303Hz)
  Microphone of 15 band parametric EQ. It has a mic compression function.
- Main output of 5 band parametric EQ. There is a compression limiter.
- Center output, Ultra-low sound output and the rear output (X3 does not have this output) all have
- three 3 band of parametric EQ.
  Microphone has four feedback suppression modes: OFF, 1, 2, 3.
- Mode memory capacity is up to 16 modes.
- Microphone output, Main output, Center output, Ultra-low output and Rear output (X3 does not
- have this output) all have compression limit and delay function.
- Administrator mode and User mode(nonsupport adjustable parameter storage)
- PC interface, full-function menu.
- Main output (Mode: Singing/Dancing (automatic/manual), including all parameters except
- compression limit, delay and mute)



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TECHNIQUE INDEX

Model	X5
Music parametric EQ	7 band
High pass filter(Music-Main output):	12dB/24dB(0Hz-303Hz)
Microphone	4 microphone FBE modes: OFF, 1, 2, 3 Microphone compression limiter 15 band parametric EQ
Echo low-pass filter	5.99 Hz-20.6 KHz
Echo high-pass filter	0Hz-1000Hz
Echo parametric EQ	3 band
Echo direct sound level	0 ~ 99.9%
Echo pre-delay	0 ~ 500ms
Pre-delay of echo right channel	0 ~ ±50%, (relative to left channel)
Total pre-delay of echo	0 ~ 500ms
Echo right channel delay	0 ~ 50%, (relative to left channel echo delay time)
Echo repeat	0 ~ 90%
(Reverberation low-pass filter) Adjustable range	5.99 Hz-20.6 KHz
(Reverberation high pass filter) Adjustable range	0Hz-1000Hz
Music level	0 ~ 200%
Direct sound level	0 ~ 200%
Echo level	0 ~ 200%
Reverberation level	0 ~ 200%
High pass filter	0Hz-303Hz
Delay	0 ~ 50ms
Mute function	Ultra-low sound output (Mode: singing/dancing and
	(automatic/manual), including all parameters except
	compression limit, delay and mute)
Music level	0 ~ 400%
MIC direct sound level	0 ~ 200%
High-pass filter	12dB,Q 0.4-1.5,/Bessel 24dB/Butterworth 24dB/Link
	Riley 24dB/USER 12dB/USER 24dB (0hz-303hz)
Low-pass filter	12dB,Q 0.4-1.5,/Bessel 24dB/Butterworth 24dB/Link
	Riley 24dB/USER 12dB/USER 24dB (0hz-303hz)
Delay	0 ~ 50ms
Left/Right channel mute	mute/non-mute
System	
Two music input ports	1/2
Music input gain	0dB/3dB/6dB (user mode is not adjustable)
Keyboard lock password and System mode password	

3 Input, 6 Output Digital Speaker Processor



3.6SP

Features:

- 3 input/6 output interfaces (input allocable to any of the output)
- Slope: 12 dB/Oct, 18 dB/Oct, 24 dB/Oct
- 48dB/Oct / 682 ms of input delay, 21 ms of output delay
- Linkwitz-riley filter, Bessel filter and Butterworth filter
- Parametric equalizer: full bandwidth (1/64 to 4 octave)
- Each output is with an intuitive user interface of limiter
- Programmable RS232 on the front panel
- 48 kHz sampling frequency
- Independent input and output indicators
- Balanced input and output XLR speaker interface
- PC control software included



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TECHNIQUE INDEX

Model	3.6SP
Frequency Response	20Hz-20kHz, ±0.25dB
Dynamic range	>110
Maximum delay	682ms on inputs, 682ms on outputs
Output gain adjustment	-40dB to +12dB
Parametric equalizer	each input of 6 band, each output of 4 band
Input GEQ	No
Crossover filters	12,18,24, or 48dB per octave
Limiter threshold	-20 to +20dBu
Maximum output Level	+20dBu
Input impedance	18 kΩ
Output impedance	100Ω
Power requirements	90-240 V AC
Dimensions (WxHxD)	483×44.4×203mm
Net Weight	4.05Kg

4 Input, 8 Output Digital Speaker Processor



4.8SP

Features:

- 4 input/8 output interfaces (input allocable to any of the output)
- Slope: 12 dB/Oct, 18 dB/Oct, 24 dB/Oct
- 48dB/Oct / 682 ms of input delay, 21 ms of output delay
- Linkwitz-riley filter, Bessel filter and Butterworth filter
- Parametric equalizer: full bandwidth (1/64 to 4 octave)
- Each output is with an intuitive user interface of limiter
- Programmable RS232 on the front panel
- 48 kHz sampling frequency
- Independent input and output indicators
- Balanced input and output XLR speaker interface
- PC control software included



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TECHNIQUE INDEX

Model	4.8SP
Frequency Response	20Hz-20kHz, ±0.25dB
Dynamic range	>110
Maximum delay	682ms on inputs, 682ms on outputs
Output gain adjustment	-40dB to +12dB
Parametric equalizer	each input of 6 band, each output of 4 band
Input GEQ	No
Crossover filters	12,18,24, or 48dB per octave
Limiter threshold	-20 to +20dBu
Maximum output Level	+20dBu
Input impedance	18 kΩ
Output impedance	100Ω
Power requirements	90-240 V AC
Dimensions (WxHxD)	483×44.4×203mm
Net Weight	4.05Kg

Loudspeaker Management System





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DriveRack 260

The DriveRack 260 was designed with the purpose and vision of providing state-of-the-art signal processing, while utilizing a simple and intuitive user interface. The DriveRack products provide the tools that ensure that thesystem sounds its very best. The 260 provides full bandpass and crossover configurations as well as independent output processing and a full time RTA for live sound applications.

Features:

- Feedback Elimination
- 2.7 Seconds of Alignment and Zone Delay
- RS-232 PC GUI control
- Classic dbx Compression and Limiting
- Graphic and Parametric EQ
- Auto-EQ Function
- Full Bandpass, Crossover, and Routing Configurations
- Auto Gain Control
- Pink Noise Generator and fulltime RTA

TECHNIQUE INDEX

Model	260
Input	(2) line inputs. (1) RTA Mic input
Input Connectors	(2) Female XLR line inputs. XLR RTA Mic input
Input Type	Electronically balanced/RF filtered
Input Impedance	>40k ohm
Max Input	+30dBu with input jumpers in +30 position
CMRR	> 45dB
Mic Preamp Phantom Power	+15VDC (RTA)
Mic Preamp Equivalent Input Noise (EIN)	< -110dB, 22Hz-22kHz, 150 ohm (RTA)
Output	6 total
Output Connectors	Male XLR
Output Type	Electronically balanced, RF filtered
Output Impedance	120ohm
Max Output	+22dBu
A/D Converter	dbx Type IV™ Conversion System
A/D Dynamic Range	(line) >113 dB, A-weighted, >110 dB unweighted
Type IV Dynamic Range	>119 dB, A-weighted, 22kHz BW; >117 dB, A-weighted, 22kHz BW
Sample Rate	48kHz
D/A Dynamic Range	112 dB A-weighted, 109dB unweighted
Dynamic Range	>110 dB A-weighted, >107dB unweighted
THD+Noise	0.003% typical at +4dBu, 1kHz, 0dB gain
Frequency Response	20Hz – 20kHz, +/- 0.5dB
Interchannel Crosstalk	>110dB, 120dB typical, (input-to-output: >100dB)

Advanced Feedback Suppression Processor



AFS-224



Back

CHARACTERISTIC

This Stereo/Dual Mono Feedback Suppression Processor provides all the feedback elimination processing and control necessary for both installation and live use. The dedicated processor offers up to 24 filters per channel with filter Qs up to 1/80th of an octave. It also has selectable modes, live filter lift, and types of filtration, all readily available via the intuitive user interface.

Features:

- Dual-channel advanced feedback suppressor
- DBX patented feedback technology (AFS).
- 24 programmable filters of each channel
- Dual channel processing of stereo or mono
- Selectable filter release time
- Filter application: language filter, low/mid/high-range music filter, input channel
- measurement, 24-section filter of each channel, electronic balance input/output of XLR and TRS(optimized acoustic feedback elimination)
- The operation module of the active filter provides the operation flexibility of continuously updating the position of the filter. Automatic-release features that eliminating the undesired filters to optimize the sound reproduction.
- Advanced feedback suppression technology (AFS) patented by DBX
- 24 programmable filters on each channel
- Stereo or mono dual-channel processing
- Optional filter release time
- Three-phase music filter
- Input channel measurement
- Each channel's 24-section filter meter

TECHNIQUE INDEX

Model	AFS-224
Sampling rate	48KHz
Dynamic range	>109dB (A weighted) >106dB not weighted
Bandwidth	22 KHz
THD + noise	typical value of 0.003%; output level +4dBu,1KHz
Frequency response	20Hz-20KHz, ±0.5dB
Inter-channel crossover voice	>80dB(typical)
Output interleaving voice	>80dB(typical)
Power voltage	AC 50/60Hz, 100V; 120V, 60Hz and 230V, 50/60Hz
Power consumption	9W
Safety certification	UL 6500, IEC 60065, EN 55013, E 60065

Wireless Conference System



WM-88U Standard UHF with 2 wireless microphones

CHARACTERISTIC

This WM Dual Channel Handheld Wireless System features efficient RF performance, diversified frequency range, and high S/N ratio. Thus, it is suitable for wireless professional sound reinforcement, such as, KTV, education, and live performance.

TECHNIQUE INDEX

Model	WM-88U
Channel	2Ch(32 channel optional)
Carrier Frequency	UHF600-900MHz
Frequency Steadying	±0.005%
Modulation Mode	UHF
Maximum Deviation	±20KHz
Audio Frequency Response	40Hz-20KHz
S/N Ratio	>80dB
Audio Dynamic Range	>80dB
T.H.D.	<0.2%
Cover Range	80M
Size	21x18x4.4cm
Operating Temperature	-10℃-50℃

WM-88U



Wireless Conference System



WM 4000U Standard UHF with 4 wireless microphones

CHARACTERISTIC

This WM 4 Channel Handheld Wireless System features efficient RF performance, diversified frequency range, and high S/N ratio. Thus, it is suitable for wireless professional sound reinforcement, such as, church, education, and live performance.

TECHNIQUE INDEX

Model	WM-4000U
Receiver(Desk-top)	
Carrier Frequency	UHF610-865MHz
Oscillation Mode	Quartz Controlled Fixed Frequency
Stability	10PPM
Sensitivity	2uV @ sJnad=12dB
Max. Deviation Range	50KHz
S/N Ratio	>105dB
T.H.D.	<0.5% @1KHz
Image Rejection	85dB typical
Spurious Rejection	75dB typical
Frequency Response	60Hz-16KHz
Squelch Control	Dual-squelch circuit
Max. Output Level	Balanced: 0-400mV, Unbalanced: 0-300mV
Power Supply	External DC Power Supply, 0.4A, 12-15V DC
Transmitter(Hand-held)	
Transmitter power	<30mW
Spurious emission	<40dB(with carrier)
Battery Voltage	AA1.5v*2
Battery Life	>10hours

WM-4000U

Dual Channel Handheld Wireless System

Diversity UHF with 2 wireless microphones



WM-2870U

CHARACTERISTIC

This WM Dual Channel Handheld Wireless System features efficient RF performance, diversified frequency range, and high S/N ratio. Thus, it is suitable for wireless professional sound reinforcement, such as, KTV, education, and live performance.

TECHNIQUE INDEX

Model	WM-2870U
Receiver	
Carrier Frequency	UHF740-860MHz
Channel	200 selectable
Stability	10PPM
Input Sensitivity	-90dBm
Max. Deviation Range	50KHz
S/N Ratio	>105dB
T.H.D.	<0.5% @1KHz
Image Rejection	better than 70dB typical
Spurious Rejection	75dB typical
Output Level	XLR: 200 ohm, 6.3 Jack: 1000 ohm
Power Supply	External DC Power Supply, 0.4A, 12-18V DC
Size	197*134*42mm
Transmitter(Hand-held)	
Transmitter power	<20mW
Gain adjustment	10dB
Battery Voltage	AA1.5v*2
Battery Life	>8hours

4-channel Handheld Wireless System

WM 3940U diversity UHF with 4 wireless microphones



WM-3940U

CHARACTERISTIC

This WM 4 Channel Handheld Wireless System features efficient RF performance, diversified frequency range, and high S/N ratio. Thus, it is suitable for wireless professional sound reinforcement, such as, church,education, and live performance.

19 inch rack mount ear include in the package

TECHNIQUE INDEX

Model	WM-3940U
Receiver	
Carrier Frequency	UHF740-860MHz
Channel	200 selectable
Stability	10PPM
Input Sensitivity	-90dBm
Max. Deviation Range	50KHz
S/N Ratio	>105dB
T.H.D.	<0.5% @1KHz
Image Rejection	better than 70dB typical
Spurious Rejection	75dB typical
Output Level	XLR: 200 ohm, 6.3 Jack: 1000 ohm
Power Supply	External DC Power Supply, 0.4A, 12-18V DC
Size	197*134*42mm
Transmitter(Hand-held)	
Transmitter power	<20mW
Gain adjustment	10dB
Battery Voltage	AA1.5v*2
Battery Life	>8hours