SEIKAKU

**P.A. AMPLIFIERS
DIGITAL AUDIO SYSTEM
PRO-AUDIO EQUIPMENTS
MEGAPHONES
P.A. SPEAKERS
WIRELESS MICROPHONE SYSTEMS**

40th
ANNIV.

SEIKAKU

SEIKAKU TECHNICAL GROUP LIMITED

SEIKAKU stands as a prominent company in the P.A. System industry. Our assembly factory in China, established in 1990, reflects our commitment to quality. With over 40 years of experience in P.A., our robust quality management system ensures excellence throughout the manufacturing and testing processes. We take pride in offering a comprehensive product line that adheres to environmentally friendly standards, including ISO9001: 2000, ISO/TS 16949: 2002, and ISO14000 regulations. Our test laboratory, endorsed by TUV Company following ISO guide 25, ensures compliance with safety and EMC regulations in the destination countries. Many of our SHOW products have successfully met European, USA safety, and EMC regulations such as CE, EMC & R&TTE, GS, CB, FCC, MFi, cTUVus, and cETLus. Together, we are dedicated to achieving excellence, sustaining progress, and striving for perfection.

INDEX 2026

DMC16.6

Professional Digital Mixer

bracket

- Digital gain control
- Phantom power control
- 32 digital inputs and outputs
- 24-bit, 48K/96KHz sampling rate
- Digital noise gate / Limiter / Digital compressor
- Digital 4-band full parametric EQ and 31 segment GEQ

- Pan / Phase reverse / Time delay
- 8 DCA for fader group / mute group
- Auto mix / RTA / FBC / Matrix
- Program, save, load & copy functions
- Lock and unlock function / Change the password

- 12 XLR +4 comb inputs
- 10 XLR and 6 MIX bus outputs
- 9 Channels 100mm motorized faders
- 10.1" touch screen with resolution 1024x600
- Bluetooth player, Type-C USB interface, support OTG protocol high-fidelity

DMC16.6

Professional Digital Mixer

DIO16

DIO24

Optional DANTE 、 AES-67 and
USB multi-track recording module

DMUSB-32X

AES-67

Dante

Download the free
App from App Store
to control

SPECIFICATIONS

Model	DMC16.6		
Microphone input	Electronically balanced	Noise gate	-84dBu~ +19dB
Frequency response to main output	22Hz~20KHz at 0dBu ±2dBu	Threshold range	0mS~250mS
Distortion (THD & N) to main output	<0.03% at 0dBu 1KHz	Release time	5mS~2S
Digital gain	0dBu~50dBu	**Compressor**	
SNR (signal to noise ratio)	108dB	Threshold range	-83dBu~ +20dB
Maximum input level	+20dBu ±0.5dBu	Attack time	0mS~250mS
Phantom power (+/-3V)	+48VDC	Release time	5mS~2S
Line inputs		Ratio	1:1 to 40:1, inf:1
Frequency response to direct output	22Hz~20KHz at 0dBu ±2dB	Gain	0dBu~ +12dB
Distortion (THD & N) to main output	<0.03% at 0dBu 1KHz	**EQ**	
Gain	-20dBu~+30dBu	Low（lowpass or lowshelf)	20Hz~20KHz ± (15dBu ±2dBu)
Maximum input level (gain at 0dBu)	+20dBu	Low mid	20Hz~20KHz ± (15dBu ±2dBu)
USB stereo input/output		High mid	20Hz~20KHz ± (15dBu ±2dBu)
Frequency response to main output	22Hz~20KHz	High (highpass or highshelf)	20Hz~20KHz ± (15dBu ±2dBu)
Distortion (THD & N) to main output	<0.3% at 0dBu 1KHz	**Digital audio**	
Maximum input level	+20dBu	ADC dynamic range	113dB
Bus output 1-6		DAC dynamic range	113dB
Maximum outputs level	+20dBu	Internal processor	32bit, floating point
Main outputs		ADC bit depth	32bit
Maximum outputs level	+20dBu	DAC bit depth	24bit
Control room outputs		**LCD**	10.1" (1024x600)
Maximum output level	+20dBu	**Impedances**	
Headphones outputs		Microphone input	6.8KΩ
Maximum output level	+20dBu	Line input	75KΩ
System crosstalk		All output	120Ω
Input to output (at +0dBu 1KHz)	-88dBu	Dimension (HxWxD)	148 x 349 x 456 (5.83" x 13.74" x 18")
Adjacent channels (at +0dBu 1KHz)	-87dBu		
Noise (bus noise)	<-90dBu	Weight	6.7 kg (14.77 lbs)

DMC24.12

Professional Digital Mixer

- 32 digital inputs and outputs
- 24-bit, 48K/96KHz sampling rate
- Digital gain control
- Phantom power control
- Digital noise gate / Limiter / Digital compressor
- Digital 4-band full parametric EQ and 31 segment GEQ

- Pan / Phase reverse / Time delay
- 8 DCA for fader group / 8 mute group
- Auto mix / RTA / FBC / Matrix
- Program, save, load & copy functions
- Lock and unlock function / Change the password

- 16 XLR +8 comb inputs
- 12 XLR and 8 MIX bus outputs
- 9 Channels 100mm motorized faders
- 10.1" touch screen with resolution 1024x600
- Bluetooth player, Type-C USB interface, support OTG protocol high-fidelity

bracket

DMC24.12
Professional Digital Mixer

DIO16

DIO24

Optional DANTE 、AES-67 and
USB multi-track recording module

DMUSB-32X

AES-67

Dante

Download the free
App from App Store
to control

SPECIFICATIONS

Model	DMC24.12		
Microphone input	Electronically balanced	**Noise (bus noise)**	<-90dBu
Frequency response to main output	22Hz~20KHz at 0dBu ±2dBu	**Noise gate**	-84dBu~ +19dB
Distortion (THD & N) to main output	<0.03% at 0dBu 1KHz	Threshold range	0mS~250mS
Digital gain	0dBu~50dBu	Release time	5mS~2S
SNR (signal to noise ratio)	108dB	**Compressor**	
Maximum input level	+20dBu ±0.5dBu	Threshold range	-83dBu~ +20dB
Phantom power (+/-3V)	+48VDC	Attack time	0mS~250mS
Line inputs		Release time	5mS~2S
Frequency response to direct output	22Hz~20KHz at 0dBu ±2dB	Ratio	1:1 to 40:1, inf:1
Distortion (THD & N) to main output	<0.03% at 0dBu 1KHz	Gain	0dBu- +12dB
Gain	-20dBu~+30dBu	**EQ**	
Maximum input level (gain at 0dBu)	+20dBu	Low（lowpass or lowshelf)	20Hz~20KHz ± (15dBu ±2dBu)
USB stereo input/output		Low mid	20Hz~20KHz ± (15dBu ±2dBu)
Frequency response to main output	22Hz~20KHz	High mid	20Hz~20KHz ± (15dBu ±2dBu)
Distortion (THD & N) to main output	<0.3% at 0dBu 1KHz	High (highpass or highshelf)	20Hz~20KHz ± (15dBu ±2dBu)
Maximum input level	+20dBu	**Digital audio**	
Bus output 1-8		ADC dynamic range	113dB
Maximum outputs level	+20dBu	DAC dynamic range	113dB
Main outputs		Internal processor	32bit, floating point
Maximum outputs level	+20dBu	ADC bit depth	32bit
Control room outputs		DAC bit depth	24bit
Maximum output level	+20dBu	LCD	10.1" (1024x600)
Headphones outputs		**Impedances**	
Maximum output level	+20dBu	Microphone input	6.8KΩ
System crosstalk		Line input	75KΩ
Input to output (at +0dBu 1KHz)	-88dBu	All output	120Ω
Adjacent channels (at +0dBu 1KHz)	-87dBu		

DIO16

Digital Snake Box

SPECIFICATIONS

Model	DIO16
Microphone input	Electronically balanced
Frequency response to main output	
Distortion (THD & N) to main output	<0.03% at 0dBu 1KHz
Gain	
Phantom power	+48V DC
SNR (Signal to noise ratio)	107dBu
System Crosstalk	
Adjacent Channels (at +0dBu 1KHz)	
Noise (bus noise)	-87dBu
Digital audio	
AD/DA Dynamic range	114dBu
Internal processor	
ADC, DAC bit depth	24-bit
Impedances	
Microphone input	3.3KΩ
Line input	
Output	120Ω
Operating temperature range	0~40°C
Storage temperature range	-20°C~60°C
Dimension (WxDxH)	483 x 240 x 88 mm (19.02" x 9.45" x 3.47")
Weight	3.73 kg (8.22 lbs)

Now with AES67

Dante™ SPOKEN HERE

Compatible with:

Shown with DMC16.6

PC Control

DIO16

Digital Snake Box

16 x 8 - XLR I/O
Included Dante I/O

- 16 Channel microphone input (equipped with digital gain control +48V phantom power control + phantom power indicator)
- 8 Channel outputs
- AC 100V~240V power input
- AES67-32 network audio module

Optional DANTE 、 AES-67 and USB multi-track recording module

iPad or Android Tablet Control

Ethernet Switch

E-1000.4

Digital Power Amplifier

Dante™

- 4-channel analog input and 4-channel digital input, 4-channel amplifier output
- Built in high-performance DSP
- Easy to operate by LCD touch Screen and Encoder
- High current switching power supply allowing high power output with low noise and low distortion
- Ethernet and type C ports for PC software control.
- The RS232 interface is to connect with third-party central control; RS-485 is for remote power function and also for connecting the third-party central control; GPI output supports defined functions: power/priority/mute control
- Built-in 4-in and 4-out DANTE modules can realize multi-amp Daisy chain (connection)
- Power amplifier backup automatic switching function.

GATE	LPF/HPF	FIR	8 BAND EQ
Delay Limiter 150mS	Limiter	Backups	Preset

Application Scenarios

Conference room audio system scene
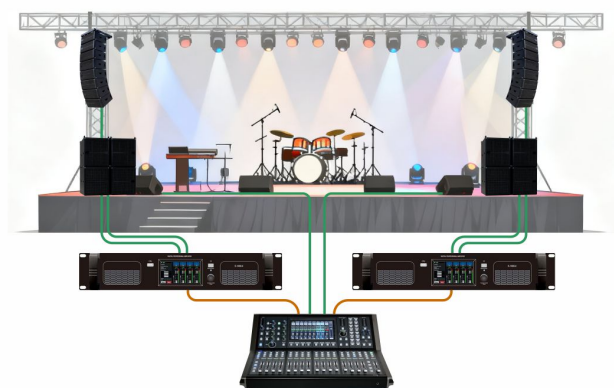
Professional stage performance scene

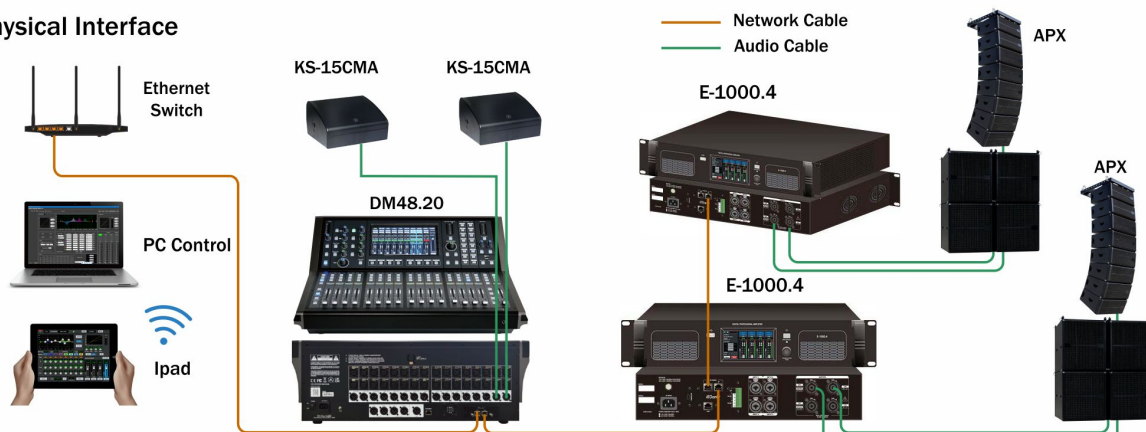Cinema scene

Outdoor mobile performance scene
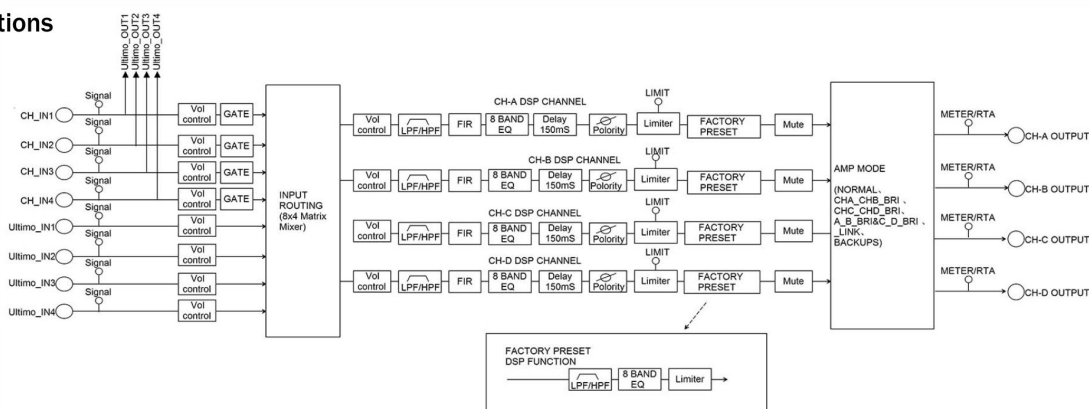
Typical Application

E-1000.4
Digital Power Amplifier

◆ **Physical Interface**

Network Cable
Audio Cable

◆ **DSP Functions**

SPECIFICATIONS

Model	E-1000.4
Power specifications	1000W x 4 digital amplifier
Stered mode (RMS)	4Ω: 900W x 4 / 8Ω: 500W x 4
Bridge mono mode	8Ω: 1600W x 2
Input sensitivity (limit off)	0.9-1.1V (0+/-1dBv)
Input impedance	20KΩ balanced or 10KΩ unbalanced
Frequency response	20Hz~20KHz (0/-1dB)
THD+N	<0.05%
S/N rate	>100dB
Crosstalk (Below rated power)	>70dB
Power/Output circuitry	Switching power/Class-D
Protections	Shot circuit, overheating, overcurrent, DC output detection, power failure detection
Controls	Front: standby /power button, functions control knob, touch LCD
Connectors	Input: balanced/unbalaced COMB jacks Output: speak-on jacks
AC Power supply	110V-120V/220V-240V~50/60Hz
Dimension (WxDxH)	448x483x88 mm (17.64" x 19.02" x 3.47")
Weight	10.8 Kg / 23.81 lbs

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App from App Store
to control

T-FBK4 V2

Professional Feedback Suppressor

- 4 XLR & 4 TRS balanced inputs
- 2 XLR & 2 TRS balanced outputs
- Dual independent channel processing
- 24-bit, 48K/96KHz sampling rate
- Digital gain control
- Phantom power control

- Live and fixed filter modes
- Auto matic live filter release
- Auto matic noise reduction function
- 8 Danamic & 8 static suppression points configured in each channel
- LAN & USB port for PC remote control

SPECIFICATIONS

| Model	T-FBK4 V2
Microphone input	Electronically balanced
Frequency response to main output	22Hz~20KHz at 0dBu +1/-2.5 dBu
Distortion (THD & N) to main output	<0.03% at 0dBu 1KHz
Gain	0dBu~36dBu
Phantom power	+48V DC
Line input	
Frequency response to main output	22Hz~20KHz at 0dBu +1/-2.5dBu
Distortion (THD & N) to main output	<0.03% at 0dBu 1KHz
Gain	-20dBu~+16dBu
SNR (Signal to noise ratio)	107dBu
System Crosstalk	
Adjacent Channels (at +0dBu 1KHz)	-87dBu
Noise (bus noise)	-87dBu
Digital audio	
AD/DA Dynamic range	114dBu
Internal processor	24-bit, floating point
ADC, DAC bit depth	24-bit
Impedances	
Microphone input	3.3KΩ
Line input	19KΩ
Output	120Ω
Operating temperature range	0~40°C
Storage temperature range	-20°C~60°C
Dimension (WxDxH)	483 x 195 x 44 mm (19.02" x 7.68" x 1.73")
Weight	3.1 kg (6.83 lbs)

AH SERIES
High Voltage Class-D Amplifier

AH150.1 / AH300.1 / AH500.1 / AH1000.1

AH500.1
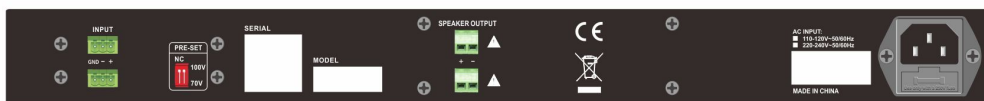
AH150.1/AH300.1/AH500.1/AH1000.1 are class-D installation amplifier.
They are perfect solution for 70V/100V line installations (selectable through dip-switches).
The series is designed with indicators (signal, clip and protection).
The input and output connections are made through euroblocks.
1U rack 19" size is very appropriate for many types of installations.

- 70V / 100V
- 1Channel high voltage amplifier.
- 150Wx1; 300Wx1; 500Wx1; 1000Wx1
- Standard 19" 1U rack size design
- Euro-block connectors for input and output

SPECIFICATIONS

Model		AH150.1	AH300.1	AH500.1	AH1000.1
Rated Output Power	Sine wave 1KHz, THD≤1%	150W	300W	500W	1000W
Sensitivity / Impedances	Line (balanced)	0.9-1.1V (0±1dBv)			
Maximum input level	Line (balanced input to pre out)	+10dBv			
S/N ratio	Line (20-15KHz)	>85dB			
Bandwidth	Line @1/8RMS	120Hz-15KHz			
THD+N	1W / RMS	≤0.1%			
Noise	All VR max	<5mv			
AC Power supply		110~120V or 220V-240V~50/60Hz			
Dimensions		483 x 360 x 44 mm (19.02" x 14.17" x 1.73")			
weight		5.0 kg (11.02 lbs)			

AH SERIES
High Voltage Class-D Amplifier

AH1000.2 / AH1500.2

AH1500.2

HIGH POWER CLASS-D AMPLIFIERS

As part of the AH series, AH1000.2 and AH1500.2 offer both low impedance and high voltage outputs. Featuring high power, the amplifiers can be used as powerful sources to drive large speaker systems in various working modes.

SPECIFICATIONS

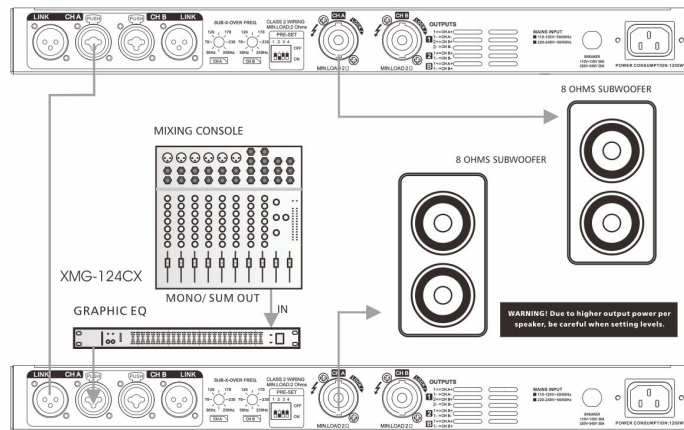| Model	AH1000.2	AH1500.2
Stereo mode	4Ω (EIAJ) 2000Wx2	2Ω (EIAJ) 2800Wx2
(All channels drive)	4Ω (RMS) 900Wx2 / 8Ω (RMS) 600Wx2	4Ω (RMS) 1500Wx2 / 8Ω (RMS) 900Wx2
CHA/B (All channels drive)	70V-1000W load / 100V-1000W load	70V-1500W load / 100V-1500W load
Bridge mono mode	4Ω (EIAJ) 4000W / 8Ω (RMS) 1800W	4Ω (EIAJ) 18000W / 8Ω (RMS) 1000W
Input sensitivity (limiter off)	0.9-1.1V (+0/-1dBv)	
Input impedance	20KΩ balanced or 10KΩ Unbalaced	
Voltage gain	37 (+0/-0.5dB)	38 (+0/-0.5dB)
Frequency response (4Ω)	20Hz~20KHz (0+/-1dB)	
THD+N	<0.1% (ref. 1K 1/8 rated power, A weighted)	
S/N rateo	>100dB	
Crosstalk	>70dB	
Protections	full short circuit, open circuit, thermal, ultrasonic, and RF protection stable into reactive or mismatched loads, turn ON/OFF, muting, tried crowbar.	
Controls	Front: on/off power switch, volume channel A, B, rear: stereo-parallel-bridgt-70/100V-Mute selector	
Indicators	Signal: 2 green LED / clip:2 red LED / power: green LED / protection:1 red LED / bridged: 1 red LED	
Connectors	Input: neutrik combo XLR / TRS /output: speak-on jacks	
Power supply	AC: 110-120V or 220~240V 50/60Hz	AC: 220-240V 50/60Hz (only)
Dimensions (WxDxH)	483 x 360 x 44 mm (19.02" x 14.17" x 1.73")	
Weight	5.7 kg (12.57 lbs)	6.1 kg (13.45 lbs)

AH SERIES

High Voltage Class-D Amplifier

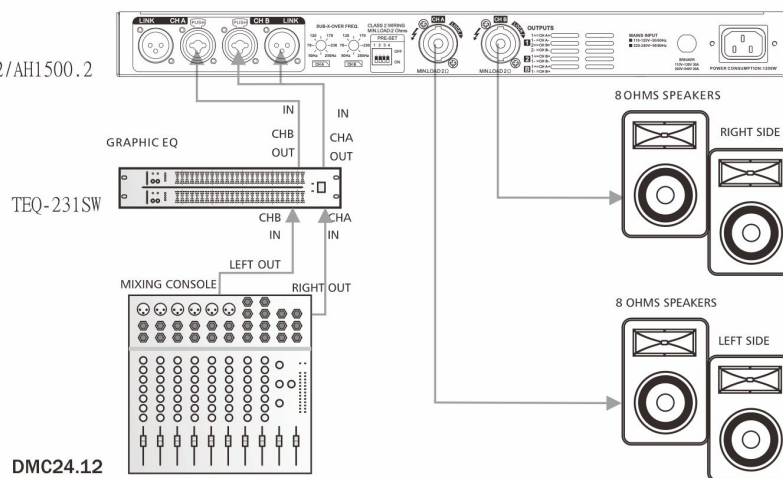## APPLICATION EXAMPLES

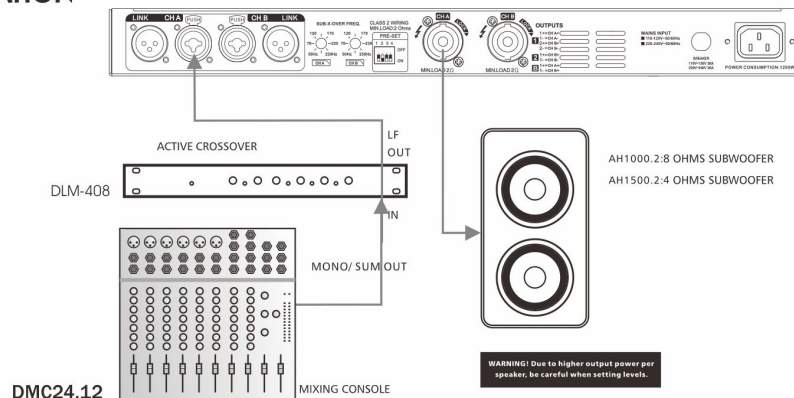### PATCHING TWO BRIDGE MONO MODE SYSTEM

AH1000.2/AH1500.2

MIXING CONSOLE

8 OHMS SUBWOOFER

8 OHMS SUBWOOFER

XMG-124CX

MONO/ SUM OUT

GRAPHIC EQ

IN

WARNING! Due to higher output power per speaker, be careful when setting levels.

AH1000.2/AH1500.2

STEREO OPERATION

AH1000.2/AH1500.2

IN   IN
CHB   CHA
GRAPHIC EQ   OUT   OUT

8 OHMS SPEAKERS

RIGHT SIDE

TEQ-231SW

CHB   CHA
IN   IN

LEFT OUT

MIXING CONSOLE   RIGHT OUT

8 OHMS SPEAKERS

LEFT SIDE

DMC24.12

MODE BRIDGE OPERATION

ACTIVE CROSSOVER   LF
OUT

DLM-408

AH1000.2:8 OHMS SUBWOOFER
AH1500.2:4 OHMS SUBWOOFER

IN

MONO/ SUM OUT

WARNING! Due to higher output power per speaker, be careful when setting levels.

DMC24.12   MIXING CONSOLE

14

D SERIES

DSP Class-D Amplifier

D-300.2U / D-300.2L
D-500.2U / D-500.2L

(U:USB port / L: LAN port)

D-300.2

- 2 Channels digital amplifier
- Switch mode power supply
- OLED display
- DSP control: stereo / parallel / bridged
  EQ limiter, gain, HPF, LPF, phase...etc.
- Type-C USB port or LAN port (optional)
- PC editor software control
- 1U compact rack design

- D-300.2: 300W x 2 @4Ω load
- D-300.2: 600W x 1 in bridge @8Ω load
- D-500.2: 500W x 2 @4Ω load
- D-500.2: 1000W x 1 in bridge @8Ω load

SPECIFICATIONS

Model		D-300.2	D-500.2
Rated Output Power	Sine wave 1KHz, THD≤1%	300W x 2	500W x 2
Sensitivity / Impedances	Line (balanced)	0.9-1.1V (0±1dBv)	
Maximum input level	Line (balanced input to pre out)	+10dBv	
S/N ratio	Line (20-20KHz)	>85dB	
Bandwidth	Line @1/8RMS	20Hz-20KHz	
THD+N	1W / RMS	≤0.1%	
Noise	All VR max	<5mv	
AC Power supply		110~120V or 220V-240V~50/60Hz	
Dimensions		483 x 285 x 44 mm (19.02" x 11.22" x 1.73")	
weight		4.7 kg (10.36 lbs)	

D SERIES

DSP Class-D Amplifier

D-300.4U / D-300.4L
D-500.4U / D-500.4L
D-1000.4U / D-1000.4L

(U: USB port / L: LAN port)
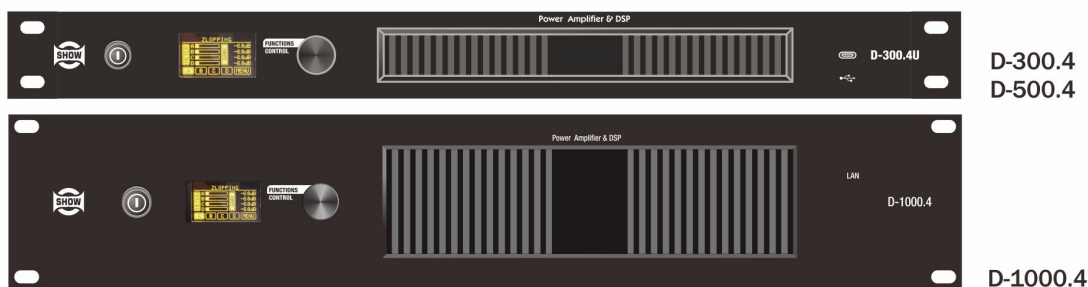
D-300.4
D-500.4

D-1000.4

D-300.4
D-500.4

D-1000.4

- 4 Channels digital amplifier
- Switch mode power supply
- OLED display
- DSP control: stereo / parallel / bridged EQ limiter, gain, HPF, LPF, phase...etc.
- Type-C USB port or LAN port (optional)
- PC editor software control
- D-300.4 / D-500.4 1U compact rack design
- D-1000.4 2U compact rack design

- D-300.4: 300W x 4 @4Ω load
- D-300.4: 600W x 2 in bridge @8Ω load
- D-500.4: 500W x 4 @4Ω load
- D-500.4: 1000W x 2 in bridge @8Ω load
- D-1000.4: 1000W x 4 @4Ω load
- D-1000.4: 2000W x 2 in bridge @8Ω load

SPECIFICATIONS

Model		D-300.4	D-500.4	D-1000.4
Rated Output Power	Sine wave 1KHz, THD≤1%	300W x 4	500W x 4	1000W x 4
Sensitivity / Impedances	Line (balanced)		0.9-1.1V (0±1dBv)	
Maximum input level	Line (balanced input to pre out)		+10dBv	
S/N ratio	Line (20-20KHz)		>85dB	
Bandwidth	Line @1/8RMS		20Hz-20KHz	
THD+N	1W / RMS		≤0.1%	
Noise	All VR max		<5mv	
AC Power supply			110~120V or 220V-240V~50/60Hz	
Dimensions		483 x 280 x 44 mm		483 x 357 x 88 mm
		(19.02" x 11.02" x 1.73")		(19.02" x 14.06" x 3.47")
Weight		6.0 kg (13.23 lbs)		9.26 kg (20.42 lbs)

MPA SERIES

Multi-Zone Class-D Amplifier

MPA-2250 / MPA-2500
(2 ZONES/ECHO) (70V/100V)

MPA-2250

MPA-2500

The class-D professional PA amplifer series is designed for hotels, supermarkets and schools.
It supplies excellent sound quality with easy operation to achieve outstanding performance.
The series has 5 inputs and 4 outputs. By using the indoor button (for background music) and
the outdoor button (for horn speakers) separately according to the different environment for better sound quality.
MP3: USB, BT-5.0 (optional BT-5.3).

	Outdoor	Indoor
MIC (1-4)	178Hz-7.96Hz	132Hz-7.96Hz
LINE (1-4)	138Hz-12.6KHz	70Hz-12.6KHz
AUX (INPUT5)	144Hz-17KHz	76Hz-17KHz

SPECIFICATIONS

Model		MPA-2250	MPA-2500
Rated Output Power	Sine wave 1KHz, THD≤1%, load 4Ω	250W x 2	500W x 2
Sensitivity / Impedances	MIC (balanced)	-40dBv	
	Line (balanced)	-5dBv	
	TEL.	-15dBv	
Max. Input Level	MIC (balanced)	-20dBv	
	Line (balanced)	+15dBv	
S/N Ratio	MIC	>65dB	
	Line	>75dB	
THD+N	1W / RMS	≤1%	
Tone Control	Bass@100Hz	±10dB	
	Treble@10KHz	±10dB	
Phantom Supply	MIC(balanced)	18V	
Priority Sensitivity	MIC1	-60dBv / 3s	
CMRR	Balance input	>60dB	
Crosstalk	500-20KHz	<-60dB	
Noise	All VR Max	<30mV	
Phase	All of inputs and outputs	<±5	
AC Power supply		110-120V~, 220-240V~ 50/60H	
Dimensions (WxDxH)		638 x 543 x 88 mm (25.12" x 21.38" x 3.47")	
Weight		12.4 kg (27.34 lbs)	15.9 kg (35.05 lbs)

MPA SERIES
Class-D Amplifier

MPA-4150 / MPA-4250
(4 ZONES/ECHO)(70V/100V)

MPA-4150

MPA-4250

The class-D professional PA amplifer series is designed for hotels, supermarkets and schools.
It supplies excellent sound quality with easy operation to achieve outstanding performance.
The series has 5 inputs and 4 outputs. By using the indoor button (for background music) and
the outdoor button (for horn speakers) separately according to the different environment for better sound quality.
MP3: USB, BT-5.0 (optional BT-5.3).

	Outdoor	Indoor
MIC (1-4)	178Hz-7.96Hz	132Hz-7.96Hz
LINE (1-4)	138Hz-12.6KHz	70Hz-12.6KHz
AUX (INPUT5)	144Hz-17KHz	76Hz-17KHz

SPECIFICATIONS

| Model		MPA-4150	MPA-4250
Rated Output Power	Sine wave 1KHz, THD≤1%, load 4Ω	150W x 4	250W x 4
Sensitivity / Impedances	MIC (balanced)	-40dBv	
	Line (balanced)	-5dBv	
	AUX(unbalaced)	-5dBv	
	TEL.	-15dBv	
S/N Ratio	MIC	>65dB	
	AUX	>75dB	
	Line	>75dB	
THD+N	1W / RMS	≤1%	
Tone Control	Bass@100Hz	±10dB	
	Treble@10KHz	±10dB	
Phantom Supply	MIC(balanced)	18V	
Priority Sensitivity	MIC1	-60dBv / 3s	
CMRR	Balance input	>60dB	
Crosstalk	500-20KHz	<-60dB	
Noise	All VR Max	<30mV	
AC Power supply		110-120V~, 220-240V~ 50/60H	
Dimensions (WxDxH)		663 x 576 x 132mm (26.10" x 22.68" x 5.20")	
Weight		17.85 kg (39.35 lbs)	21.05 kg (46.41 lbs)

PAS SERIES

Class-D Amplifier

PAS-150F / PAS-300F / PAS-500F
PAS-150D / PAS-300D / PAS-500D

F=MP3-800 (USB/BT/FM)
D=MP3-800 (USB/BT/DAB)
(Digital Audio Broadcasting, DAB)
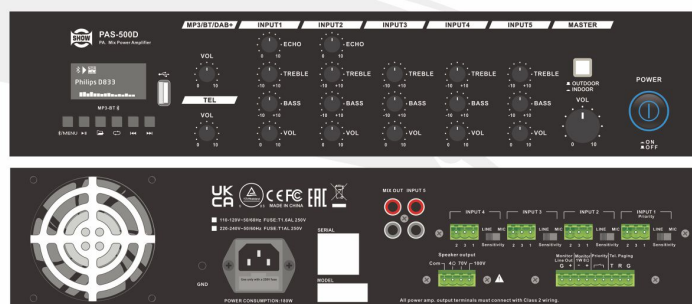
- PAS-150F/PAS-300F/PAS-500F：MP3-800 (USB/BT/FM)
- PAS-150D/PAS-300D/PAS-500D：MP3-800 (USB/BT/DAB)
- Switch Mode Power Supply
- 150W x 1; 300W x 1; 500W x 1 Class-D
- 4Ω, 70V/100V Outputs
- Euroblock connectors for input and output
- 4 Line in/MIC Switchable

- 18V DC Phantom Power
- MP3 Player with Bluetooth Receiver
- Indoor / Outdoor button for different frequency responses & speakers
- TEL Paging / Priority Switch
- 2 Band EQ
- MIC1 Priority

SPECIFICATIONS

Model		PAS-150	PAS-300	PAS-500
Rated Output Power	Sine wave 1KHz, THD≤1%, load 4Ω	150W	300W	500W
Sensitivity / Impedances	MIC (balanced)		-40dBv	
	Line (balanced)		-5dBv	
Maximum Input Level	MIC (balanced input to pre out)		-20dBv	
	Line (balanced input to pre out)		+10dBv	
S/N Ratio	MIC		>65dB	
	LINE		>70dB	
Bandwidth	MIC@Outdoor:200Hz-8KHz MIC@Indoor:150Hz-8KHz		LINE@outdoor：170Hz-13KHz LINE@indoor:90Hz-13KHz	
THD+N	1W / RMS		≤0.1%	
Phantom Supply	MIC(balanced)		18V	
CMRR	Balance input		>60dB	
Crosstalk	500-2KHz		<-60dB	
Noise	All VR Max		<30mv@100V out	
Phase	All of inputs and outputs		<±5	
MP3			USB+Bluetooth 5.3+FM/DAB	
AC Power supply			110V-120V~, 220V-240V~, 50Hz/60Hz	
Dimensions (WxDxH)			421 x 335 x 88 mm (16.58" x 13.19" x 3.47")	
Weight			15.9kg (35.05 lbs)	

CM-2
Chime Microphone

- Equipped with a high quality condenser microphone
- 4-stage chime configured
- Support balanced outputs or unbalanced outputs.
- Enable to control the volume of CHIME or MIC separately
- Equipped with the "push to talk" button to control the microphone easily.
- An external TYPE-C port built to support 5V DC power and operate conveniently.

SPECIFICATIONS

Model	CM-2
Power Voltage	AC 100~240V / DC:5V, 550mA
Chime	440Hz, 554Hz, 659Hz, 880Hz four stage musical
Microphone	Condenser microphone cartridge
Balanced output	230mV
Unbalanced output	110mV
Frequency response	20Hz-20KHz
Noise	≤1mV
Signal / noice	≥100dB
Input sensitivity	-50dB
Dimensions (WxDxH)	196 x 158 x 83 mm (7.72" x 6.22" x 3.27")
Weight	0.6kg (1.32 lbs)

SHMeter

Audio Level Meter

Features

- **2-channel line level indicator with LED chains**
- Control attenuation speed
- Sensitivity separately adjustable per channel
- Level display from green through yellow to red
- BAR and DOT display modes
- 2 x RCA in and outputs (through-connected)
- 2 x XLR in and outputs (balanced, through-connected)
- Provides brightness control switch
- For 19" rack mounting and desktop use
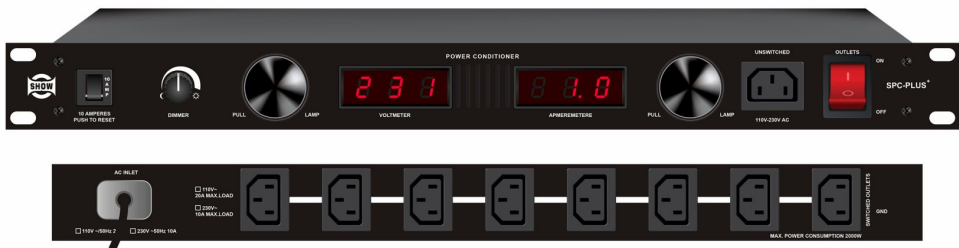- 19" format / 1 RU
- Demo mode for LED checking without signal

SPECIFICATIONS

	SHMeter
Power input	100-240V AC~ 50/60Hz Fuse T1.6AL
Power consumption	10W
Dimensions (HxWxD)	44 x 483 x 82 mm (1.73" x 19.02" x 3.23")
Weight	1.25 kg (2.58 lbs)

SPC-PLUS⁺

RACK-MOUNT POWER DISTRIBUTION

Features

- Eight switched, rear panel, IEC outlets that allow you to power an entire rack's worth of gear from one source.
  In addition, an unswitched front panel convenience outlet is provided for temporary power needs
  (such as plugging in a guitar amplifier, soldering iron, etc.).
- 3-point surge protection, spike clamping protection and RF filtering enables all connected equipment
  to operate with maximum efficiency and minimal noise
- Front panel , re-settable, 10 amp circuit breaker protects all connected gear.
- 19" format / 1 RU
- An independent dedicated switch with status light for powering the rear panel switched outlets

SPECIFICATIONS

	SPC-PLUS⁺
Number of outlets	8 switched , 1 unswitched
Currect rating	max, 10 amps (circuit breaker protected)
Input voltage	230V
Spike protection mode	hot to neutral, hot to ground, and neutral to ground
Clamping Voltage (@50A)	max. 340V AC
Response time	1 nanosecond
Maximum surge current	6,000 amps (8 x 20 s pulse)
Maximum spike energy	70 jouies per leg
Noise attenuation	>20dB, 1.5MHz-200MHz
Power cord	permanently attached, grounding type plug
LED Life	100,000 h (typical)
Dimensions (HxWxD)	44 x 483 x 190 mm (1.73" x 19.02" x 7.5")

L-ARRAY SYSTEM

Passive Line Array System

L-ARRAY 28H

Subwoofer
| 3000W | 134dB |

Satellite
| 1600W | 127dB |

4 x L-ARRAY 28H
Passive Satellites
Dual 8" Woofers,
2 x 1.35" Tweeter

2 x L-ARRAY 28H
Passive Satellites
Dual 8" Woofers,
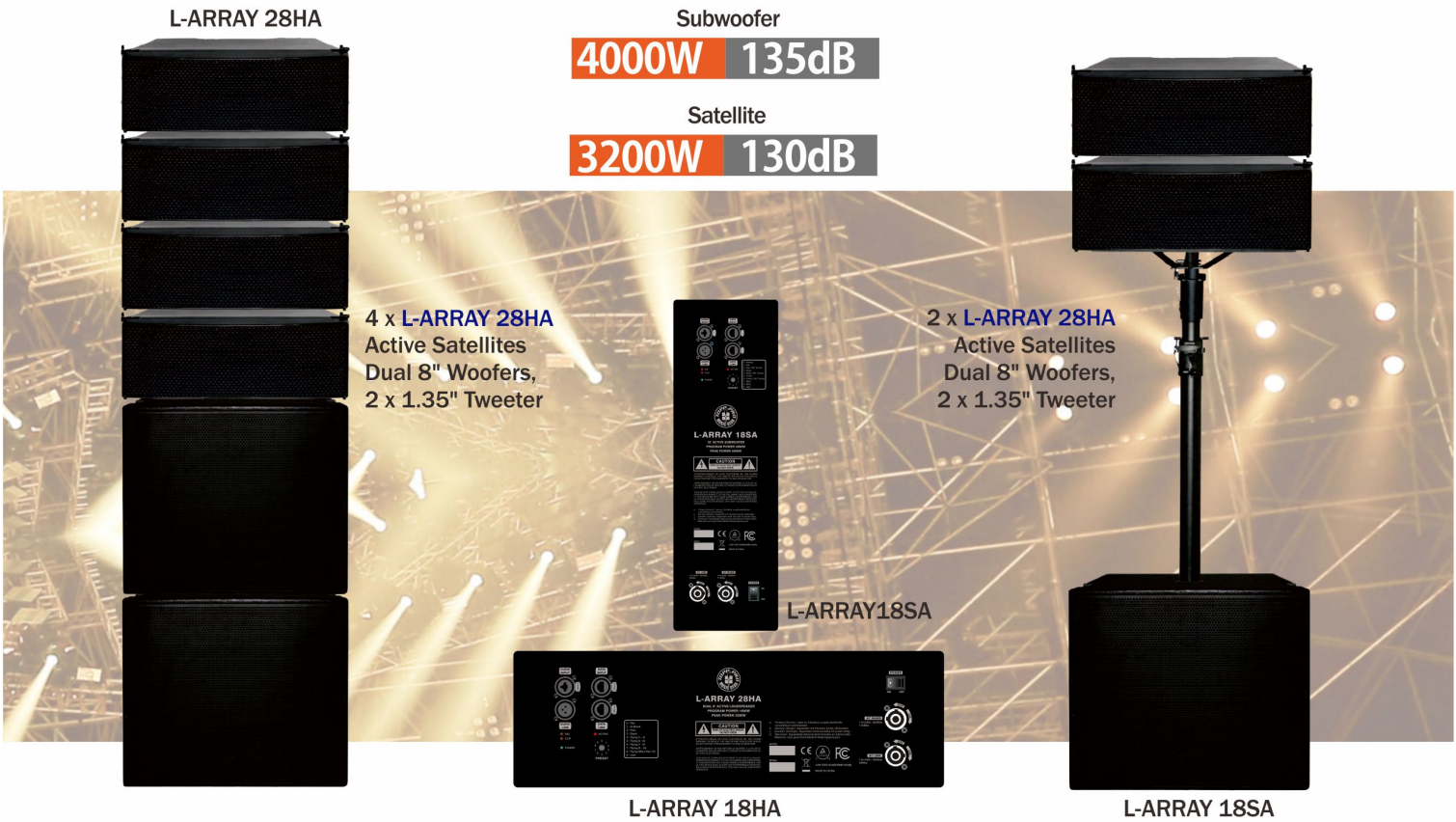2 x 1.35" Tweeter

TPE1000.4

L-ARRAY 18S

SPECIFICATIONS

Model	L-ARRAY 28H	L-ARRAY 18S
System Type	8" 2-way Passive speaker system	18" Passive vented subwoofer
Output power	400W Continuous/800W Program / 1600W Peak	750W Continuous/1500W Program / 3000W Peak
Maximum SPL@1m	127dB Max.	134dB Max.
Frequency response	70Hz-20KHz (-10dB)	35Hz-150KHz (-10dB)
Impedance	8Ω	8Ω
Transducer low	2x8" Ferrite woofer, 2" (50.5mm) voice coil	18" Ferrite woofer, 4" (100mm) voice coil
Transducer high	2x1" Neodymium compression driver, 1.35" (34mm) voice coil	
Crossover frequency	1.5KHz	
Dispersion (-6dB)	110° Horizontal, 15° Vertical	
Attachment points	Adjustable rigging system, vertical splay Adjustable in 1.0° increments from 0°-12°	
Connectors	2xSPK4 style / HF:0dB/+3dB switch / Passive-Bi-AMP switch	2xSPK4 style
Enclosure construction	Polypropylene enclosure, steel grille with foam, two handles on each side	Plywood cabinet, resistant black Paint, Metal grille with foam, rubber feet, 2 x each side
Mounting	4-point suspension, three configuration styles (small, stack and array)	One metal standard Pole-mount
Dimensions	292 x 594 x 420 mm (11.50" x 23.39" x 16.54")	692 x 594 x 766 mm (27.24" x 23.39" x 30.16")
Weight	19.8 kg (43.65 lbs)	67.8 Kg (149.47 lbs)

L-ARRAY SYSTEM

Active Line Array System

L-ARRAY 28HA

Subwoofer
4000W **135dB**

Satellite
3200W **130dB**

4 x **L-ARRAY 28HA**
Active Satellites
Dual 8" Woofers,
2 x 1.35" Tweeter

2 x **L-ARRAY 28HA**
Active Satellites
Dual 8" Woofers,
2 x 1.35" Tweeter

L-ARRAY18SA

L-ARRAY 18HA

L-ARRAY 18SA

SPECIFICATIONS

Model	L-ARRAY 28HA	L-ARRAY 18SA
System Type	8" 2-way Active Line Array Loudspeaker system	18" Active Line Array Vented subwoofer
Output power	800W Continuous/1600W Program / 3200W Peak	1000W Continuous/2000W Program / 4000W Peak
Maximum SPL@1m	130dB Max.	135dB Max.
Frequency response	65Hz-20KHz (-10dB)	35Hz-150KHz (-10dB)
Impedance	8Ω	8Ω
Transducer low	2x8" Ferrite woofer, 2" (50.5mm) voice coil	18" Ferrite woofer, 4" (100mm) voice coil
Transducer high	2x1" Neodymium compression driver, 1.35" (34mm) voice coil	
Crossover frequency	1.8KHz	
Dispersion (-6dB)	110° Horizontal, 15° Vertical	
Attachment points	Adjustable rigging system, vertical splay Adjustable in 1.0° increments from 0°-12°	
Connectors	Input: 1xCombo-XLR & 1/4" Balanced / Unbalanced line input Output: 1xXLR Thru Balanced line	Input: 1xCombo-XLR & 1/4" Balanced / Unbalanced line input Output: 1xXLR Thru Balanced line
Enclosure construction	Polypropylene enclosure, steel grille with foam, two handles on each side	Plywood cabinet, resistant black Paint, Metal grille with foam, rubber feet, Four handles on each side
Mounting	4-point suspension, three configuration styles (small, stack and array)	One metal standard Pole-mount
Dimensions	292 x 594 x 420 mm (11.50" x 23.39" x 16.54")	692 x 594 x 766 mm (27.24" x 23.39" x 30.16")
Weight	21.5 kg (47.40 lbs)	68.8 Kg (151.68 lbs)

ZP SERIES

Active Plastic Cabinet Speakers

4000W **134dB** CE APPROVED
TOTAL SYSTEM - PEAK POWER

Stream music wirelessly from your smart device

Your Own Sound Calibration!

DSP Enhanced
Bass Response
Stereo Bluetooth APP control
High-Efficiency Class D Amplifier

DSP

MAX HED
POWER MODULE *Optimum Headroom & SPL*

Hi-Def
COMPONENTS

Rigging
READY!

ZP-10A   ZP-12A   ZP-15A

ZP SERIES

Active Plastic Cabinet Speaker

SPECIFICATIONS

	ZP-10A	ZP-12A	ZP-15A
System Type	2-Way Active Vented Loudspeaker System		
Power System	Bi-Amp DSP Processor, 1000W continuous RMS (Class-D LF-650W+HF-350W), 4000W peak (2600W LF+1400W HF)		
Transducer Low	10" (246mm), 2.5" (65mm) voice coil	12" (296mm), 3" (76mm) voice coil	15" (367mm), 3" (76mm) voice coil
Transducer High	1" Throat Compresion Driver, 1.4" (35mm) voice coil		
Crossover Frequency	3.0KHz	2.0KHz	2.0KHz
Max SPL (@1m)	129dB (peak), 126dB (continuous)	131dB (peak), 128dB (continuous)	134dB (peak), 131dB (continuous)
Frequency Response	54Hz-20KHz (-3dB)	53Hz-20KHz (-3dB)	50Hz-20KHz (-3dB)
Frequency Range	48Hz-20KHz (-10dB)	46Hz-20KHz (-10dB)	43Hz-20KHz (-10dB)
Horn Coverage	90° Horizontal x 60° Vertical (nominal)		
DSP Preset Modes	Live-Music-Speech-Monitor		
Connectors	2 x XLR+1/4" (6.35mm) TRS combo inputs (line / mic); 1 x 3.5 stereo AUX in, 1 x XLR mix output (link); 1 x IEC power cable input		
Bluetooth Stereo	Stereo L/R-Vol-pair-link switch (APP control)		
Controls	Volume Control knob, AC Power Switch, Line/Mic toggle switch, DSP preset switch. BT pair and link switch		
Indicators	Signal/Clip Limiter LED, Four DSP Mode LEDs, BT Pair-Link LED, Power Switch LED		
Power	Connection: IEC Voltage: 110V-120V~, 220V-240V~, 50/60Hz, switchable Fuse: 100V-120V T10AL AC250V, or 220V-240V T5AL AC250V Consumption: 800W		
Electronic Protections	Electronic clip, thermal and transducer overdrive protection		
Enclosure	Trapezoidal, injection-molded, polypropylene with perforated steel grille 2 x handles (left and right sides)		
Mounting / Installation	36mm standard pole-mount, suspended with integral M10 points, wedge monitor		
Dimensions (HxWxD)	528 x 332 x 315 mm (20.8" x 13.1" x 12.4")	615 x 364 x 348 mm (24.2" x 14.3" x 13.7")	680 x 421 x 382 mm 26.8" x 16.6" x 15.0"
Weight	12.3 Kg / 27.1 lbs	16.3 Kg / 35.9 lbs	18.8 Kg / 41.3 lbs
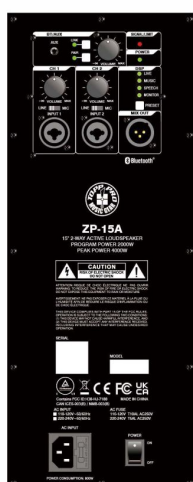
LighTning-12AP

12" 2-Way Battery Powered Speaker

SPECIFICATIONS

	LighTning-12AP
System Type	12" 2-Way battery powered speaker
Power System	Bi-Amp DSP Processor, Program 200W / Peak 400W @4Ω
Transducer Low	12" woofer, ferrite magnet
Transducer High	1" Throat Compresion Driver
Crossover Frequency	2.5KHz
Maximum SPL	123dB (peak), 94dB (dB-SPL @1m)
Frequency Response	65Hz-20KHz (-3dB)
Frequency Range	55Hz-20KHz (-10dB)
Horn Coverage	90° Horizontal x 60° Vertical (nominal)
Kick-back / monitor angles	Monitor angle 50°
DSP Preset Modes	Live-Music-Speech-Monitor
	Live-for live sound reinforcement applications (Defaults)
	Speech-for vocal applications
	Music-for recording music playback and EDM applications
	Monitor-for stage monitoring applications
Connectors	2 x XLR +1.4" (6.35mm) TRS combo inputs ; 1 x 3.5 Stereo AUX in ; 1 x 5V 1A Type C charging
	1 x XLR mix output (link) ; 1 x IEC power cable input
Bluetooth Stereo	App control & BT5.3
Battery capacity	Lithium ion, 3450mAh, 25.9V, 7 verses
Battery at max output	6+ hours
Controls	Master volume, AC power switch, grille with built-in power LED
Power	Connection: IEC
	Voltage: 110V-240V~, 50/60Hz, switchable, Fuse: 100V-120V T2.5AL AC250V, Consumption: 150W
Electronic Protections	Electronic clip, thermal and transducer overdrive protection
Enclosure	Trapezoidal, injection-molded, polypropylene with perforated steel grille, 3 x handles (top and both sides)
Mounting / Installation	36mm standard pole-mount, suspended with integral M10 points, wedge monitor
Dimensions (HxWxD)	615 x 364 x 348 mm (24.2" x 14.3" x 13.7")
Weight	14.66 Kg (32.32 lbs)

Bluetooth audio receiver for all purposes

The BR-1's signal range of up to 100 ft makes it the perfect tool for receiving wireless Bluetooth audio on mixing consoles and active PA speakers for weddings, dance parties, and any kind of event that requires music.
The versatile, easy-to-use BR-1 will convince users in just about every situation thanks to its integrated XLR output that always ensures a reliable wireless connection to professional audio systems without any adapters.
This compact Bluetooth audio receiver is also an excellent choice for all musicians who want to stream backing tracks from a mobile device to their practice amplifier or to the PA system at a venue.
One BR-1 allow a stereo signal to be received, whereas in TWS model requires two BR-1 units to be linked.

- Add Bluetooth to any speaker or mixer
- Link two together for cable-free stereo playback
- Dual XLR outputs for wired stereo playback
- XLR on top and bottom
- Switch for on/off, TWS-Link, Bluetooth pair, stereo/mono
- LEDs for battery charge and operating status

Speaker!

Stream music wirelessly from your smart device

BR-1

any Mixer!

SPECIFICATIONS

Model	BR-1
Top / Bottom output port	Balanced XLR male
Maximum output level	+6dBu
Signal-to-noise ratio	95dB
Frequency range	20~20KHz
Bluetooth range	Up to 100 feet (30.5m)
Bluetooth frequency range	2402~2480MHz
Free-air operating temp range	-20°C~45°C
Battery life	Up to 8 hours
Recharging time	Less than 2 hours
USB-C power input	DC 5V / 300mA
Battery specifications	Built in battery, 3.7V / 500mAh / 1.85Wh
Bluetooth profile	Bluetooth 5.3 A2DP
Dimension (LxWxH)	24 x 27 x 116 mm (1.06" x 1.06" x 4.56")
Weight	0.051 kg (0.112 lbs)

D2400 SERIES

2.4G Digital Wireless Microphone System

D2400R / D2400H / D2400P (1 CH)
D2402R / D2400H / D2400P (2 CH)

D2400R digital wireless system is the perfect solution for musicians and speakers who want to confidently and easily use wireless technology.
It adopts advanced RF selection algorithm with 2.4GHz wireless technology, while intelligently avoiding interference, Achieving completely reliable performance and dropout free audio, and can coexist with Wi-Fi and bluetooth

D2402R works as a digital dual-channel wireless MIC. system which is the perfect solution for musicians and speakers who want to confidently and easily use wireless technology. Equipped with colorful TFT display and simple & fast adjustment menu, it enables your operations more smoothly and conveniently.
Adopting advanced RF selection algorithm with 2.4GHz wireless technology while intelligently avoiding interference, To achieve completely reliable performance and dropout free audio, and can coexist with Wi-Fi and bluetooth.

Features

- RF frequency: 2.4GHz license-free bands
- High resolution 24bit/48KHz sampling rate uncompressed audio
- Extremely low 3.6ms wireless system audio latency
- Working distance up to 50 meters
- Low power consumption, the transmitter can work for more than 10 hours using 2 x AA batteries
- Compliant with EMC regulations (FCC/CE)

D2400R
(1 CH)
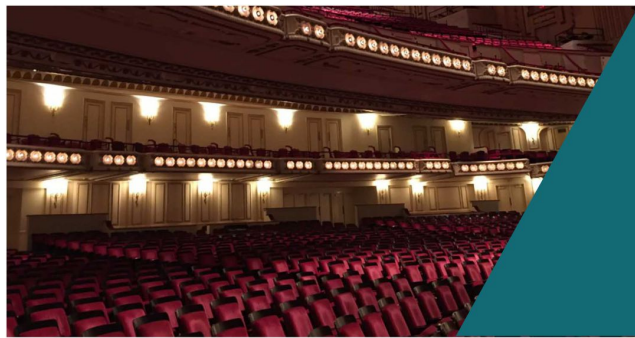
D2402R
(2 CH)

D2400 SERIES

SPECIFICATIONS

Model	D2400 2.4G SYSTEM
Simultaneous system	4
Working range	164' line of sight
Frequency range	2402~2479MHz
Modulation mode	GFSK
Frequency response	20Hz~20KHz ±3dB (24bit, 48KHz)
Distortion	<0.1% @1KHz
Single to noise	>90dB
System latency	3.6ms
Operating temperature	-10°C~50°C

SPECIFICATIONS

Model	D2400R / D2402R
Reception mode	Dual antenna
Audio output level-unbalanced	+8dBu
Audio output level-balanced	+8dBu
Audio output impedance-unbalanced	940Ω
Audio output impedance-balanced	470Ω
Power requirement	DC12V / 500mA
Dimension (WxDxH)	198 x 110 x 44mm (7.8" x 4.3" x 1.73")
Weight	D2400R: 330g (0.72 lbs) D2402R: 550g (1.21 lbs)

D2400H   D2400P

SPECIFICATIONS

| Model	D2400H	D2400P
Mic. capsule (optional)	Dynamic capsule	/
Input connector	/	Mini-XLR (P4)
Transmitting power	<10dBm MAX ERP	<10dBm MAX ERP
Power supply	AA x 2 (at 3.0V)	AA x 2 (at 3.0V)
Battery lift	>10 hours	>10 hours
Dimension	255 x Φ51 mm (10" x Φ2.0")	96 x 62 x 18 mm (3.75" x 2.44" x 0.75")
Weight	330g (0.72 lbs)	85g (0.2 lbs)

MATRIX SYSTEM

Matrix Multi-Processor

MATRIX-A6/MATRIX-A8/MATRIX-A12
Digital Audio Matrix System / Configuration

MATRIX-A6 / MATRIX-A12

1. Up to 16 sub-devices can be connected to a single system of A6 or A12 .
2. Up to 4 RVC-2000 / RPM-600 / RPM-300 / RVC-200D can be supported by the LINK of each RD port.
3. The max. distance supported is 100 meters based on CAT-5e or more advanced network cable.

| RPM-600 | RPM-600 | RPM-600 | RPM-600 |

Link up to 4pcs

| RVC-2000 | RVC-2000 | RVC-2000 | RVC-2000 |
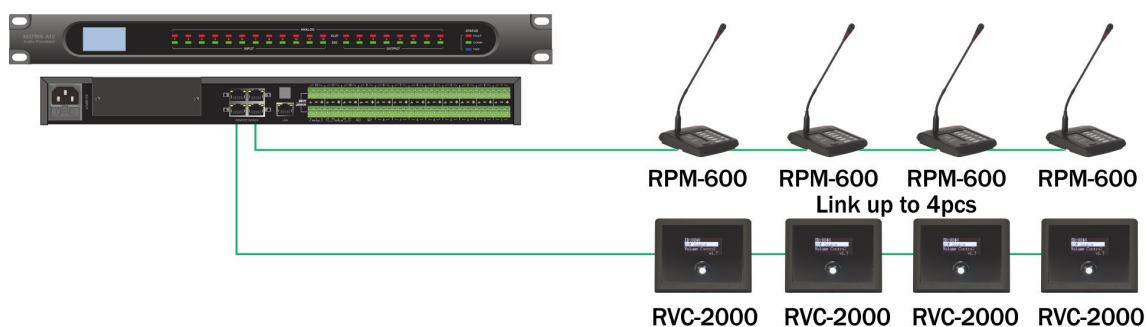
MATRIX-A8

1. Up to 8 sub-devices can be connected to each single system.
2. One unit of RD-100EX is allowed for each single system.
3. Connected to the RD port directly.
4. Audio Device: 1 PC selected from any of RPM-200/RIO-100/RVA-200.
5. Control Device: up to 4 PCS can be connected to RVC-100D/ RVC-1000.
   If mutual link applied, the first device connected should be RVC-100D.
6. The max. distance supported is 100 meters based on CAT-5e or more advanced network cable.

RD-100EX

100m

| RVC-1000 | RVC-100D | RIO-200 | RVA-200 | RPM-200 |
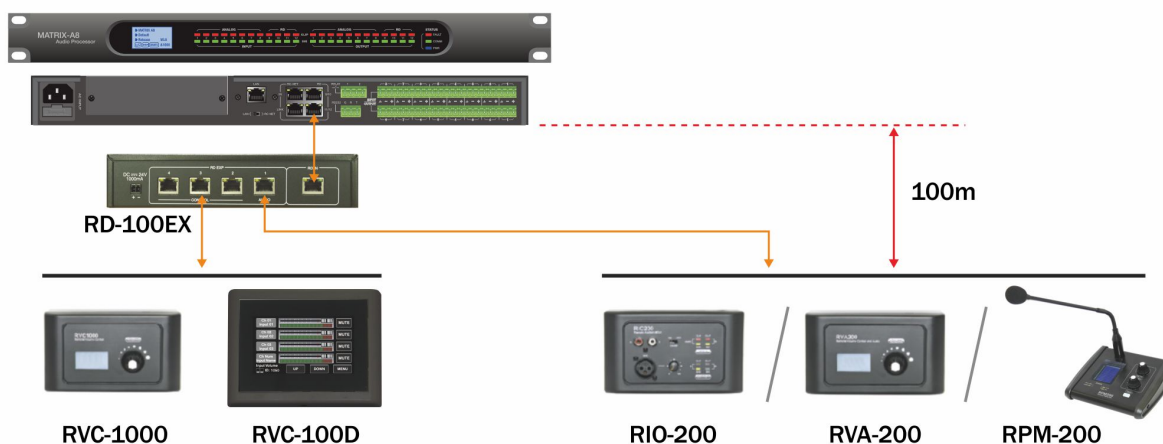
Dante-based network digitally processed audio system

The MATRIX system is one of the world's integrated network audio and distribution platform.
It is completely open to setting with no restrictive predetermined signal flow.
The MATRIX system provides a powerful set of tools to create extraordinary audio experiences.
This pioneering architectural design is used for room combinations, paging and distributing audio to several zones
in an installation. By using PC and APP management software, even novice users can complete complex tasks in awhile.
Room composition and paging does not require complex matrix mixes or presets.
The MATRIX system can assign pages and background music to multiple zones without complicated wiring.

The MATRIX system can be connected to either small or large installations simultaneously by using PC or
APP management software controls. Various connected peripherals include matrix multi-processor,
remote volume control and expanders, remote audio I/O devices and advanced paging stations. In addition,
the matrix multi-processor with PC and APP software controls helps to check the system status, location,
CAT 5e wiring integrity and ensure audio flow through all peripherals.

MATRIX-A6 / MATRIX-A12

MATRIX-A8

MATRIX SYSTEM

Matrix Multi-Processor

Digital Audio Matrix / System Features

Basic Introduction

The MATRIX System is the core of a music distribution, paging, discussion and zone management for commercial and fixed installations.

Fix Architecture

MATRIX system is designed for non-expert customers looking for quick and easy operation.
The intuitive GUI utilizes a familiar hardware-like layout to enable a short programming time and rapid hardware implementation.

Digital Connectivity

MATRIX system uses four types of CAT-5e compatible connections:
- RCNET port is based on RS-485 transfer protocol for MATRIX link
- RD port is based on AES3 transfer protocol for point to point digital audio transfer with RS-485 for panel control
- Optional Dante card for multi-channel digital audio transport
- Ethernet TCP/ IP for LAN

Applications

- Shopping mall
- Bar / Restaurant
- Fitness center
- Hotel
- Transportation terminal

- Factory
- Hospital
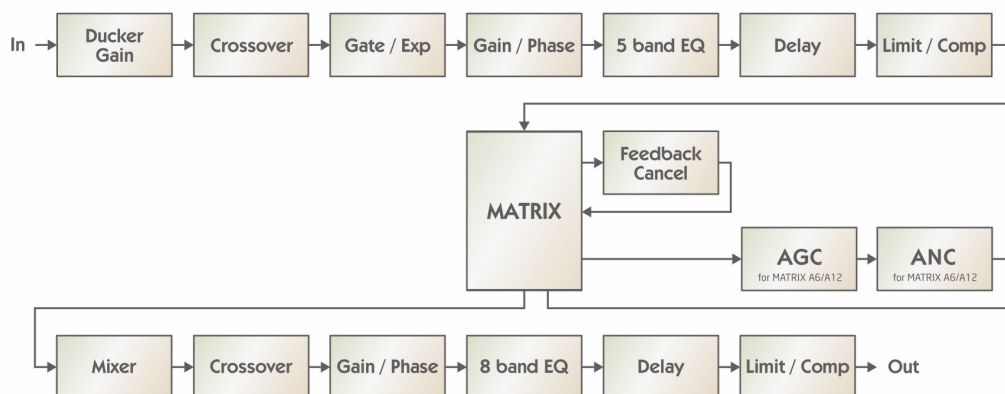- Conference hall
- Exhibition hall
- Power station

Dante™
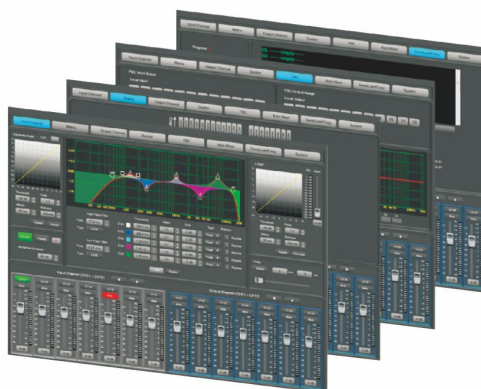
Digital Audio Matrix / System Features

DSP Functions

Gain, Limiter / Compressor, Ducker, Matrix, Gate / Expander, Feedback Canceller, Parametric EQ, Bandpass Filters, Delay, Crossover Filters, Auto Mixer.

In → Ducker Gain → Crossover → Gate / Exp → Gain / Phase → 5 band EQ → Delay → Limit / Comp

MATRIX → Feedback Cancel

AGC (for MATRIX A6/A12) → ANC (for MATRIX A6/A12)

Mixer → Crossover → Gain / Phase → 8 band EQ → Delay → Limit / Comp → Out

Software Editor

The friendly editor makes any setting or modification easy. It reports the control status in real time with clear graphic indications for all functions.

MATRIX-A8 SYSTEM

Matrix Multi-Processor

Digital Audio Matrix System / Configuration

Dante™

MATRIX-A8

RVC-100D   RVA-200

RPM-200

Ethernet Switch   BGM-99

AH-500.4

MATRIX-A8

RD-100EX

MATRIX-A8

NWB-8   NWB-8   NWB-8   CSB-40T

RIO-200   RVC-1000

AH-500.4

UDM525

CAT-5e
Audio

NPJ-6   NPJ-6   NPJ-6   NPJ-6   NCL-6   NCL-6   NWB-8   NWB-8

MATRIX-A8 SYSTEM

Matrix Multi-Processor

Digital Audio Matrix System

MATRIX-A8

Matrix multiprocessor

MATRIX-A8

Dante Card

T-Dante

Remote volume control

RVC-1000

RVC-100D

Remote audio I/O devices

RIO-200

RVA-200

Paging station

RPM-200

Remote expander

RD-100EX

MATRIX-A8

Matrix Multi-Processor

Digital Audio Matrix System

The MATRIX System is the core of a music distribution, paging, discussion and zone management for commercial and fixed installations.

Features

- 8 analog in x 8 analog out
- 4 digital in x 4 digital out
- 8 dante in x 8 dante out
- Fix architecture for easy and quick operation
- Up to 192 in x 192 out
- DSP
- Intuitive GUI and Apps software editor
- Remote controller options

Accessories

- RPM-200: microphone with zone selector
- RIO-200: audio input/output control
- RVC-1000: volume control
- RVA-200: zone control with stereo output
- RD-100EX: RD port extender
- RVC-100D: touchscreen volume control
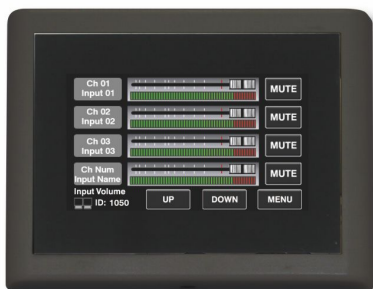- T-Dante: Dante module

SPECIFICATIONS

Model	MATRIX-A8
Connectors	Euroblock 4 x 6-pin, 5mm pitch
CODEC	24-bit, 48KHz
MIC Inputs	Active balanced
Gain Settings	0dB to +50dB steps=12dB
Input Impedance	6.8KΩ
Phantom Power	+48VDC, 10mA max per input
THD+N	<0.01%, typ 20-20KHz, 0dBu
Maximum Input	20dBu (7.746Vrms)
Frequency Response	20-20KHz, +0dB ±1.5dB
Dynamic Range	-126dBu
Outputs	
Impedance	240Ω
Frequency Response	20Hz-20KHz, 0dB +/-.15dB
Dynamic Range	-107dB max, A weighted
Crosstalk	-70dB max, A weighted 20Hz-20KHz, +20dB, CH to CH.
Indicators	
Signal	-30dBu green LED, peak-reading
Overload	+17dBu red LED, peak-reading
DSP	
Processor	ADSP-series, 450MHz
Word Length	32/64-bit floating point
Power Supply	100-240V / 50~60Hz
Dimensions (WxHxD)	483 x 44 x 256 mm (19.02" x 1.73" x 10.08")
Weight	3.9 kg (8.60 lbs)

 Dante™

RVC-100D

COLOR
■ □

RVC-1000

Features

- 1 input / 1 link output
- LCD display the control in real time,
  also can control the MATRIX-A8 through the touch screen
- Direct power supply by network cable, no external
  power supply, communication length is 100M
- Touchscreen, 4.3" LCD display
- Input / output audio control
- Audio routing
- Scene switch

Features

- Volume control of MATRIX-A8 output channels
- Input / Output signal routing
- LCD screen with output level display
- RD port in, for connection to MATRIX-A8
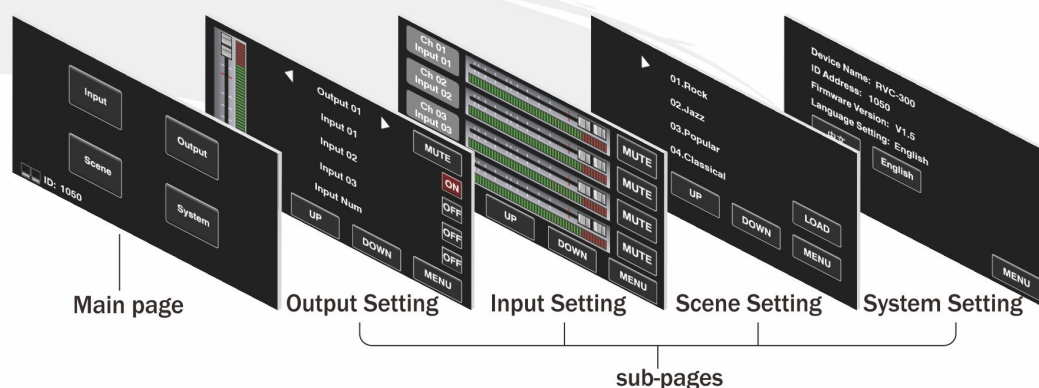- RD port link for daisy chain connection
- 100m CAT-5e cable

SPECIFICATIONS

Model	RVC-100D	RVC-1000
Adjustable volume range	-∞±15dB	
RD net to Matrix	RJ45, 100m CAT-5e cable	RJ45, 100m CAT-5e cable
RD net link	RJ45, 100m CAT-5e cable	RJ45, 100m CAT-5e cable
Dimensions (LxHxD)	145 x 110 x47 mm (5.71" x 4.33" x 1.85")	145 x 110 x 47 mm (5.71" x 4.33" x 1.85")

RVC-100D

Matrix A8 System

Remote Volume CONTROL

Main page | Output Setting | Input Setting | Scene Setting | System Setting

sub-pages

Control Interface Introduction

RVC-100D main page

Connecting the RD port of MATRIX-A8 to the in port of RVC-100D. After the MATRIX-A8 has been successfully recognized and connected to RVC-100D, the indicator on the lower left will flash, and the device address MATRIX-A8 assigned to the RVC-100D also will be displayed. You can enter four sub-pages respectively by clicking the corresponding buttons on the main interface, namely "output setting" / "input setting " / "scene setting" / "system setting".

RVC-100D sub-pages
Output setting

You can adjust the output volume or mute it, and the changes of the output volume can be seen through the volume indicator in this page; You can switch the output channel by the "left and right arrow", and the "up and down button" to switch the input channel; Switch "ON" / "OFF" to customize the input channel routing to the selected output channel.

Input setting

You can adjust the input volume, mute and the changes of the input volume can be seen through the volume indicator in this page; The input channel can be switched by the "up and down button".

Scene setting

Click the "up and down button" to switch to the previous page or next scene, and then click on the desired scene to load (The default scenes loaded in this page are set and saved on the MATRIX-A8 software).

System setting

It shows the device name device; device address that MATRIX-A8 assigned to RVC-100D and the firmware version in this page; All pages can be switched to Chinese language or English language through the "Chinese" / "English" buttons.

RIO-200/RVA-200

Matrix A8 System

Dante™

Remote Audio I/O Device

RIO-200

COLOR
■ □

RVA-200

Features

• Channel A and B line inputs
• MIC input
• RD port, for connection to MATRIX-A8
• 2 x D/A channel line outputs
• 100m CAT-5e cable

Features

• Volume control of MATRIX-A8 output channels
• Input / output signal routing
• LCD screen with output level dispaly
• RD port, for connection to MATRIX-A8
• 2 x D/A channel line outputs
• 100m CAT-5e cable

SPECIFICATIONS

Model	RIO-200
Inputs	
Connectors	3-pin female XLR, RCA
Input Impedance	5.1KΩ
THD+N	<0.01% typ 20-20KHz, +4dBu
Maximum Input	20dBu
Frequency Response	20-20KHz, +0, -0.5dB
Dynamic Range	-126dB max, A weighted
Crosstalk	-87dB max, A weighted
Outputs	
Connectors	Euroblock 2x3-pin, 5mm pitch
Impedance	240Ω
Maximum Output	+20dBu
Frequency Response	20Hz-20KHz
Dynamic Range	-107dBu Max, A weighted
Crosstalk	104dB
Signal	-30dBu green LED, peak-reading
Overload	+17dBu red LED, peak-reading
RD net to MATRIX	RJ45, 100m CAT-5e cable
Dimension (LxHxD)	147x86x47 mm (5.79"x3.39"x1.85")

SPECIFICATIONS

Model	RVA-200
Adjustable volume range	-∞+15dB
Connectors	Euroblock 2x3-pin, 5mm pitch
Impedance	200Ω 1%
Maximum Output	+20dBu
Frequency Response	20Hz-20KHz, 0dB+/-1.5dB
Dynamic Range	107dBu max, A weighted
Crosstalk	-87dBu max, A weighted
RD net to MATRIX	RJ45, 100m CAT-5e cable
Dimension (LxHxD)	147x86x47 mm (5.79"x3.39"x1.85")

RPM-200/RD-100EX

Matrix A8 System

RPM-200 Paging Station
RD-100EX Remote Expander

Dante™

RPM-200

RD-100EX

Features

- 12 x paging zones
- Up to 64 group zones with MATRIX-A8
- Zone LCD display
- Status and communication indicators
- Zone selector with volume control
- Push-to-talk gooseneck microphone
- USB port to load chime sound files
- RD port, for connection to MATRIX-A8
- 100m CAT-5e cable

Features

- 3 remote control terminals, each control terminal can connect up to 8 controllers
- LED lights display the working status of ports in real time
- 1 audio+control terminal, 192 zones can be controlled and called by connecting to RPM-200

SPECIFICATIONS

Model	RPM-200	RD-100EX
MIC Input		
Connector	3-pin female XLR	
Phantom power	+12VDC 26mA	
Indicators and switch		
LCD Display	Zone activation	
LEDs	Signal status	
Switch	Push to talk	
Ports		
RD net to MATRIX	RJ45, 100m CAT-5e cable	
USB	For MP3 Chime sound file (4 seconds)	
1 x RD net to Matrix		RJ45, 100m CAT-5e cable
3 x RD net link to RVC-1000 & RVC-100D		RJ45, 100m CAT-5e cable
1 x RD net link to RVA-200, RPM-200 & RIO-200		RJ45, 100m CAT-5e cable
Power supply		24V / DC
Dimension (LxHxD)	166 x 53 x 162 mm (6.54" x 2.09" x 6.38")	196 x 45 x 128 mm (7.72" x 1.77" x 5.4")

MATRIX-A6

Matrix Multi-Processor

Digital Audio Matrix Processor

MATRIX-A6 is at the heart of a music distribution, paging, discussion and one management system for commercial and fixed installations. It has 6 inputs and 6 outputs in a single device powered by a state-of-the-art DSP

Features

• 6 anglog in x 6 analog out
• 8 Dante in x 8 Dante out
• 4 Volume controller ports
• Fix architecture for easy and quick operation
• Intuitive GUI with PC and Apps software editor
• DSP: phase / delay / comp / anc / agc

Accessories

• RPM-600: microphone with zone selector
• RVC-2000: touch screen volume control
• Dante-32S: Dante module
• RPM-300: paging station
• RVC-200D: remote volume control
• DIO-202: audio interface

SPECIFICATIONS

| Model	MATRIX-A6
Connectors	Euroblock 3 x 6-pin, 5mm pitch
CODEC	32-bit, 48K/96K
Mic / line inputs	Active balanced
Gain settings	+10 to +60dB, 1dB steps
Input impedance	6.8KΩ
Phantom power (±3V)	+48VCD
THD+N	<0.03%, typ 20Hz-20KHz, 0dBu A Weight
Maximum input	+20dB
Frequency response	20Hz-20KHz, at 0dBu±1.5dB A Weight
Dynamic Range	108dB
Crosstalk	<-88dB, at 20Hz-20KHz, 0dB, CH to CH
Digital gain range	0~-48dB steps=12dB
Outputs	Active balanced
Impedance	200Ω
Maximum output	+20dBu
Frequency response	20Hz~20KHz at 0dBu±1.5dB A Weight
Dynamic range	108dB
Crosstalk	<-88dB, at 20Hz-20KHz, 0dB, CH to CH
Indicators	
Signal	-40dBu green LED
Overload	+19dBu Max, A Weight
DSP	
Processor	32/64-bit floating point
Power supply	100-240V / 50~60Hz
Dimension (WxHxD)	483 x 44 x 256 mm (19.02" x 1.73" x 10.08")
Weight	4.14 kg

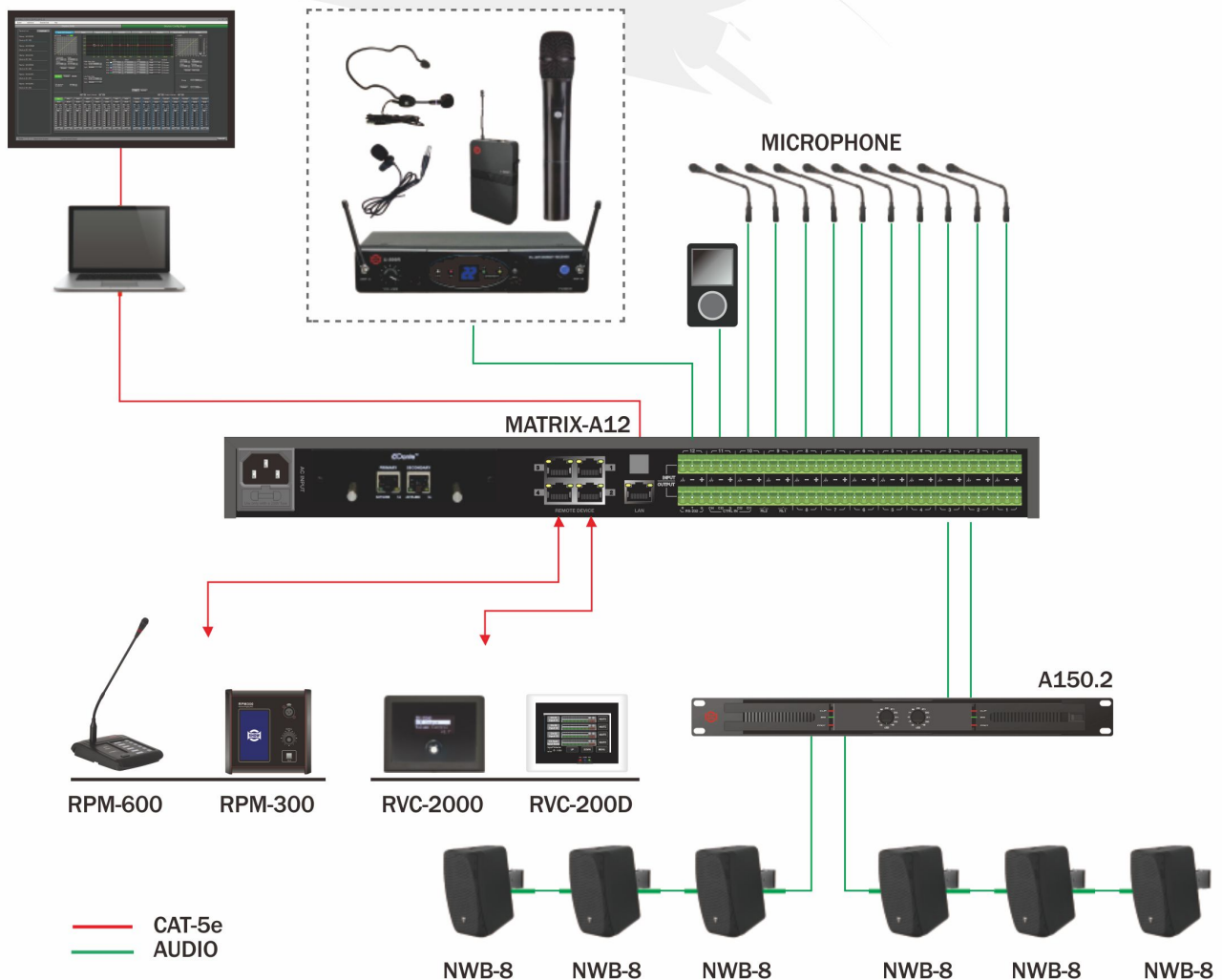# MATRIX-A6 SYSTEM

Matrix Multi-Processor

Digital Audio Matrix System / Configuration
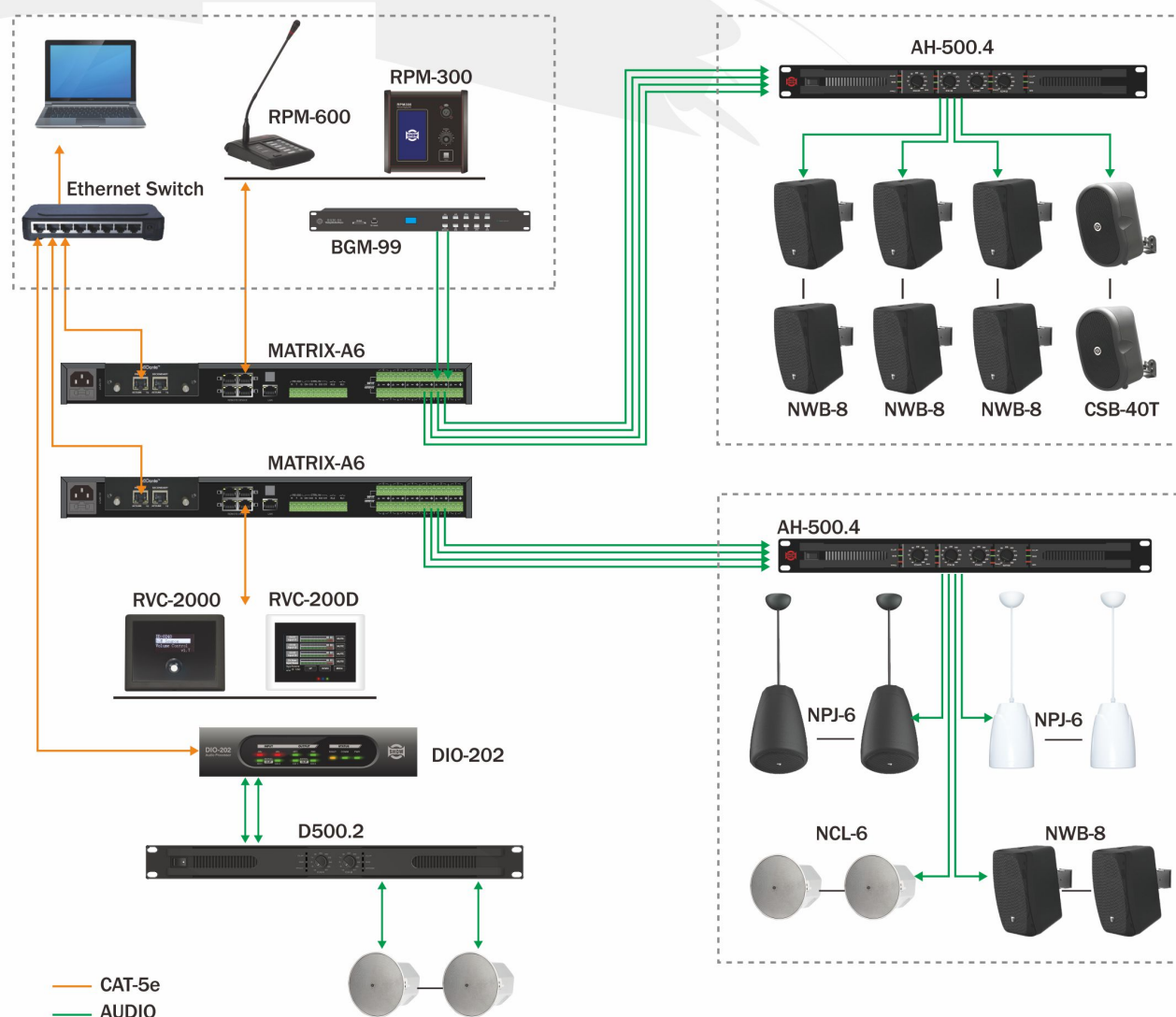
MATRIX-A6

MATRIX-A6 SYSTEM

Matrix Multi-Processor

Digital Audio Matrix System

MATRIX-A6

Matrix multiprocessor

MATRIX-A6

Dante Card

Dante-32S

Remote volume control

RVC-2000

RVC-200D

Audio Interface

DIO-202

Paging Station

RPM-300

Paging station

RPM-600

Digital Audio Matrix System / Configuration

MATRIX-A12

MICROPHONE

MATRIX-A12

A150.2

RPM-600　　RPM-300　　RVC-2000　　RVC-200D

CAT-5e
AUDIO

NWB-8　　NWB-8　　NWB-8　　NWB-8　　NWB-8　　NWB-8

MATRIX-A12 SYSTEM

Matrix Multi-Processor

Dante™

Digital Audio Matrix System

MATRIX-A12

Matrix multiprocessor

MATRIX-A12

Dante Card

Dante-32S

Remote volume control

RVC-2000

RVC-200D

Paging station

Audio Interface

DIO-202

Paging Station

RPM-300

RPM-600

MATRIX-A12

Matrix Multi-Processor

Digital Audio Matrix Processor

MATRIX-A12 is at the heart of a music distribution, paging, discussion and zone management system for commercial and fixed installations. It has 12 inputs and 8 outputs in a single device powered by a state-of-the-art DSP

Features

- 12 anglog in x 8 analog out
- 4 Volume controller ports
- Fix architecture for easy and quick operation
- Intuitive GUI with PC and Apps software editor
- DSP: phase / delay / comp / anc / agc

Accessories

- RPM-600: microphone with zone selector
- RVC-2000: touch screen volume control
- Dante-32S: Dante module
- RPM-300: paging station
- RVC-200D: remote volume control
- DIO-202: audio interface

SPECIFICATIONS

Model	MATRIX-A12
Connectors	Euroblock 3 x 12-pin, 5mm pitch for mic input (balanced); Euroblock 3 x 8 -pin, 5mm pitch for output (balanced)
CODEC	32-bit, 48KHz / 96K A/D
Mic inputs	Active balanced
Gain settings	0 to -48dB steps=12dB
Input impedance	6.8KΩ
Phantom power	+48VCD, 10mA max per input
THD+N	<0.03%, typ 20Hz-20KHz, 0dBu A Weight
Maximum input	+20dB
Line inputs	Active balanced
Gain settings	+10 to +20dB, 1dB steps from +10 to +20
Input impedance	5.1KΩ
Maximum input	20dBu
Frequency response	20-20KHz at 0dBu ±1.5dB A Weight
Dynamic Range	108dB
Crosstalk	<-dB, at 20-20KHz, 0dB, CH to CH
Outputs	Active balanced
Impedance	240Ω
Maximum output	+20dB
Frequency response	20-20KHz at 0dBu±1.5dB
S/N	-108dB A Weight
Crosstalk	<-88dB, at 20Hz-20KHz 0dB CH to CH
Indicators	
Signal	-40dBu green LED
Overload	+19dBu Max, A Weight
Dimension (WxHxD)	483 x 44 x 256 mm (19.02" x 1.73" x 10.08")
Weight	4 kg

RVC-200D/RVC-2000

Matrix-A6/A12 System

Dante™

Remote Volume Control
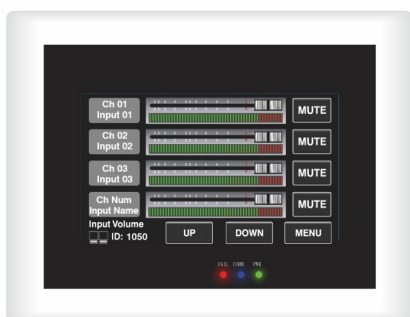
RVC-200D

COLOR ■ □

RVC-2000

Features

- 1 RD input / 1 link output
- Controling in real time through 4.3" LCD touch screen display, for MATRIX-A6/A12 system
- Direct power supply by network cable, no external power supply, communication length is 100M
- Audio receive via bluetooth
- Audio routing
- Scene switch

Features

- Remote control with screen for MATRIX-A6 / MATRIX-A12 system
- For zone volume control and sound source location
- Configure through PC software

SPECIFICATIONS

Model	RVC-200D	RVC-2000
Power	24VDC by RJ45 port	24VDC by RJ45 port
Ports		
RD net to Matrix	RJ45 100m CAT-5e shield cable	RJ45 100m CAT-5e shield cable
RD net to link	RJ45 100m CAT-5e shield cable	RJ45 100m CAT-5e shield cable
Dimension (WxHxD)	147 x 86 x 47 mm (5.79" x 3.39" x 1.85")	150 x 115 x 23 mm (5.91" x 4.53" x 0.91")

RPM-600

Matrix A6/A12 System

Paging Station

Dante™

Features

- Up to 4 remote paging microphones can be configured for each RD port
- Built-in 16m flash can be used to save voice messages such as various alarms, tips sounds, etc
- With RPM-600EX, it enables to extend additional 12 zone address-selection buttons
- User can customize the functionaries of zone selection button such as zone selection, voice playback etc.
- Enable to realize broadcasting to output zones

Optional Accessory

- RPM-600EX: 12 zones select expander

RPM-600EX   RPM-600

SPECIFICATIONS

Model	RPM-600
Power	24V DC (Operation range: 15-40V DC Powered by Matrix)
Rated current	120mA (remote emergency MIC), 250mA (Connected to 3pcs of zone-selection expander)
Frequency response	200Hz-15KHz
THD	1%
SNR	55dB
Volume control	Microphone volume control, voice volume control
MAX cable connection distance	CAT-5e 150m in total length
The number of zone selection expander connected	3pcs
Operation temperature	-5°C~45°C
Dimension (LxWxH)	243 x 170 x 53 mm (9.57" x 6.70" x 2.09")
Weight	0.66kg (0.15 lbs)

RPM-300/DIO-202

Matrix A6/A12 System

RPM-300 Paging Station
DIO-202 Audio Interface
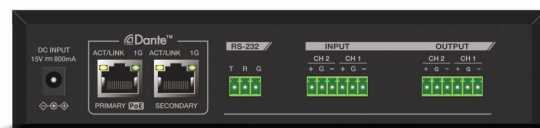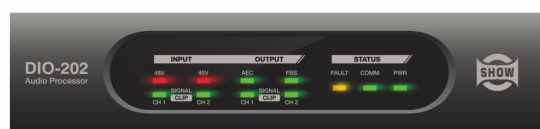
Features

- 12 x paging zones
- Up to 64 group zones with MATRIX-A6 / A12
- LCD display
- Status and communication indicators
- Zone selector with volume control
- Push-to-talk gooseneck microphone
- USB port to load chime sound files
- RD link , for connection to RPM-300 (max. 4pcs)
- 100m CAT-5e shield cable

Features

- Audio and control data communication based on DANTE network
- 2CH MIC/LINE inputs / 2CH analog outputs
- 2CH DANTE inputs / outputs
- AEC function
- FBC function

SPECIFICATIONS

Model	RPM-300
Connector	3-pin female XLR
Phantom power	24V DC@100mA on/off in software / 15V adapter
LCD Display	zone activation
Switch	push to talk
RD net to Matrix	RJ45, 100m CAT-5e cable
USB	for MP3 chime sound file (4 seconds)
Dimension (LxHxD)	166 x 53 x162 mm (6.54" x 2.09" x 6.38")
Weight	1.06kg (2.34 lbs)

Model	DIO-202
Input	2 channel, phase / volume / EQ / comp / delay
Output	2 channel, EQ / comp / delay
Power	PoE via RJ45 / DC15V via adapter
Control	RS232
Dimension (LxHxD)	196 x 45 x128 mm (7.72" x 1.77" x 5.04")
Weight	1.1 kg (2.43 lbs)

ER SERIES
Hand Grip Megaphone

ER-55Plus / ER-55MB / ER-66Plus / ER-66MB

The series is an upgraded version of ER-55S/66S, designed with Class-D new technology.
It has the advantages of light weight, low power consumption, long use time, strong directivity,
clear and bright speech sound quality, and strong sound penetration. In order to facilitate consumers to use,
It is also equipped with multi-function options such as MP3+BT+AUX. Just insert the U disk into the USB port,
press the play button to play; switch the function button to BT, and press the play button to play.
AUX (Φ3.5) can be connected to external signal input, MP3 (red LED) / BT (green LED),
so that the player can be more intuitively identified by users. It also supports DC 12V power supply.
The series can be used in gatherings, tourism, tour guides, publicity, and other public places.
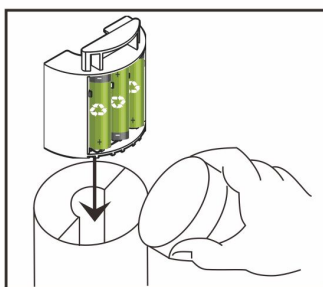
ER-55MB

ER-66MB
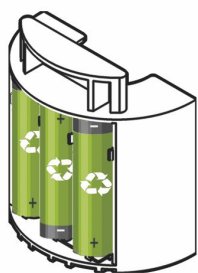
18650 battery case

battery recharger not supplied

SPECIFICATIONS

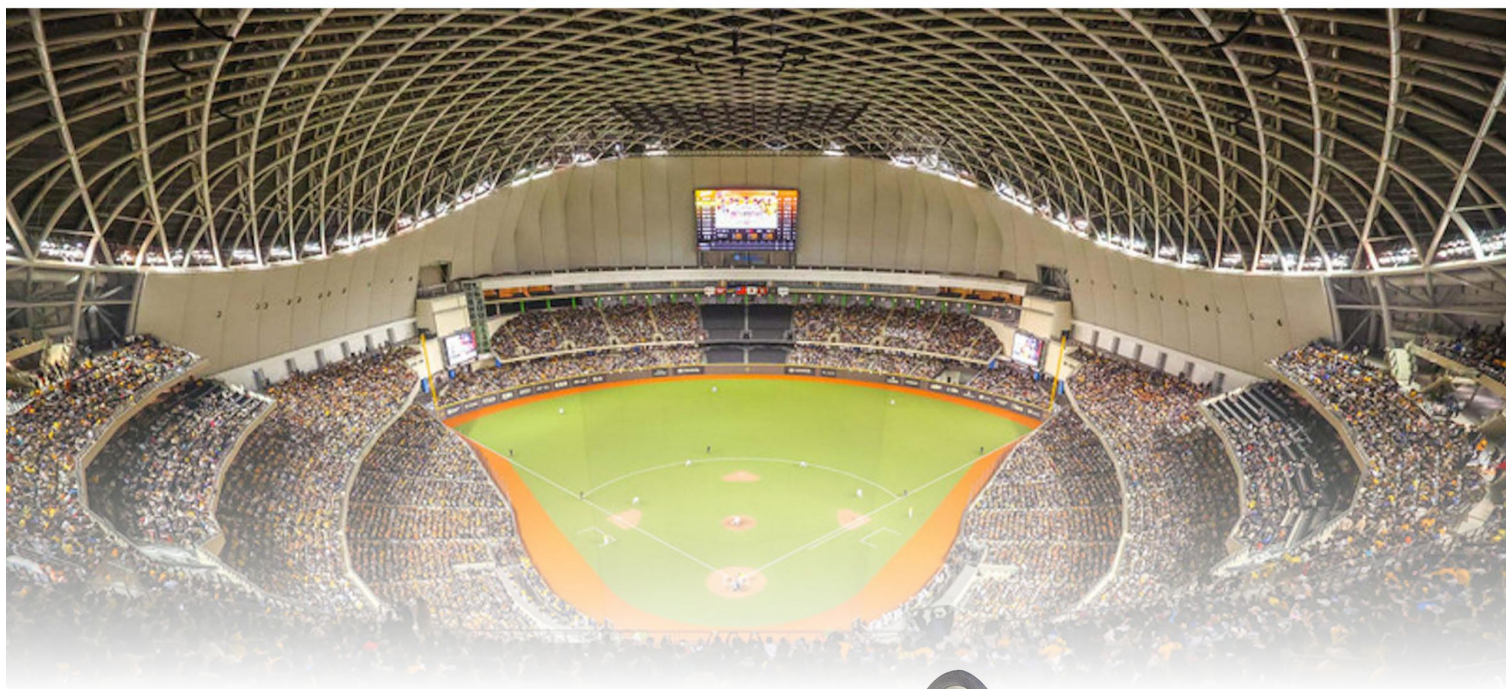| Model	ER-55Plus / ER-55MB / ER-66Plus / ER-66MB
Power	MAX 25W
Range	0.7~1.0Km depends on operating conditions
Battery	8 x "C" type batteries or 3 x "18650" lithium batteries (not supplied)
External power	12V battery or 8-1.5V DC
Speaker impedance	4Ω
Dimensions	ER-55Plus / ER-55MB: Φ230 x 370 mm (Φ9.1" x14.6") ER-66Plus / ER-66MB: Φ230 x 340 mm (Φ9.1" x13.8")
Weight	ER-55Plus / ER-55MB: 1.38 kg (3.04 lbs) ER-66Plus / ER-66MB: 1.4 kg (3.09 lbs)

ER SERIES

Shoulder Type Megaphone

ER-56Plus / ER-56MB

The series is an upgraded version of ER-56, designed with CLASS D new technology.
It has the advantages of light weight, low power consumption, long use time, strong directivity,
clear and bright speech sound quality, and strong sound penetration. In order to facilitate consumers to use,
It is also equipped with multi-function options such as MP3+BT+AUX. Just insert the U disk into the USB port,
press the play button to play; switch the function button to BT, and press the play button to play.
AUX (Φ3.5) can be connected to external signal input , MP3 (red LED)/BT (green LED),
so that the player can be more intuitively identified by users. It also supports DC 12V power supply.
The series can be used in gatherings, tourism, tour guides, publicity, and other public places.

SPECIFICATIONS

Model	ER-56Plus /ER-56MB
Power	MAX 25W
Range	0.7~1.0Km depends on operating conditions
Battery	8 x "C" type batteries or 3 x "18650" lithium batteries (not supplied)
External power	12V battery or 8-1.5V DC
Speaker impedance	4Ω
Dimensions	Φ230 x 340 mm (Φ9.1" x13.8")
Weight	1.33 kg (2.93 lbs) (without battery)

ER-56MB

ER SERIES

Shoulder Type Megaphone

ER-68Plus / ER-68MB

Function introduction:

The series is an upgraded version of ER-68,
designed with CLASS D new technology.
It has the advantages of light weight, low power consumption,
long use time, strong directivity, clear and bright speech sound quality,
and strong sound penetration. In order to facilitate consumers to use,
It is also equipped with multi-function options such as MP3+BT+AUX.
Just insert the U disk into the USB port, press the play button to play;
switch the function button to BT, and press the play button to play.
AUX (Φ3.5) can be connected to external signal input ,
MP3 (red LED)/BT (green LED), so that the player can be more
intuitively identified by users. It also supports DC 12V power supply.
The series can be used in gatherings, tourism, tour guides, publicity,
and other public places.

ER-68MB

ERV-68S

(optional)

SPECIFICATIONS

Model	ER-68Plus / ER-68MB
Power	MAX 45W
Range	1.0~2.4Km depends on operating conditions
Battery	10 x "D" type batteries (not supplied)
External power	15V battery or 12-15V DC
Speaker impedance	4Ω
Dimensions	Φ350 x 505 mm (Φ13.8" x19.9")
Weight	3.1 kg (6.83 lbs) (without battery)

CSL-40/CSL-40CV

Ceiling Speaker

CSL-40 / CSL-40CV

SPECIFICATIONS

Model	CSL-40	CSL-40CV
Type	Vented enclosure	Vented enclosure
Driver	4" paper full range woofer	4" paper full range woofer
Power Capacity	40W (continuous pink noise)	40W (continuous pink noise)
Power Rating (100V)	N / A	40W / 20W / 10W
Power Rating (70V)	N /A	40W / 20W / 10W / 5W
Sensitivity	88dB 1W / 1 meter	88dB 1W / 1 meter
Impedance	8Ω nominal	(100V): 250Ω / 500Ω / 1KΩ, (70V): 125Ω / 250Ω / 1KΩ
Frequency Response	70Hz-15KHz (-10dB); 100Hz-14KHz (-3dB)	70Hz-15KHz (-10dB); 100Hz-14KHz (-3dB)
Input	4P Euro connector with link	4P Euro connector with link
Opening angle (at 1KHz 4KHz)	120°C / 85°C (-6dB)	120°C / 85°C (-6dB)
Ceiling mounting hole	Φ185mm	Φ185mm
Install method	4-point dog ear tabs	4-point dog ear tabs
Enclosure	steel backcan, ABS+PC baffle (UL2043)	steel backcan,ABS+PC baffle (UL2043)
Optional bracket	C-shaped support plate & tile support rails	C-shaped support plate & tile support rails
Dimensions	Φ214 x 209 mm (Φ8.43" x 8.23")	Φ214 x 209 mm (Φ8.43" x 8.23")
Weight	1.54 kg (3.40 lbs)	1.96 kg (4.32 lbs)

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