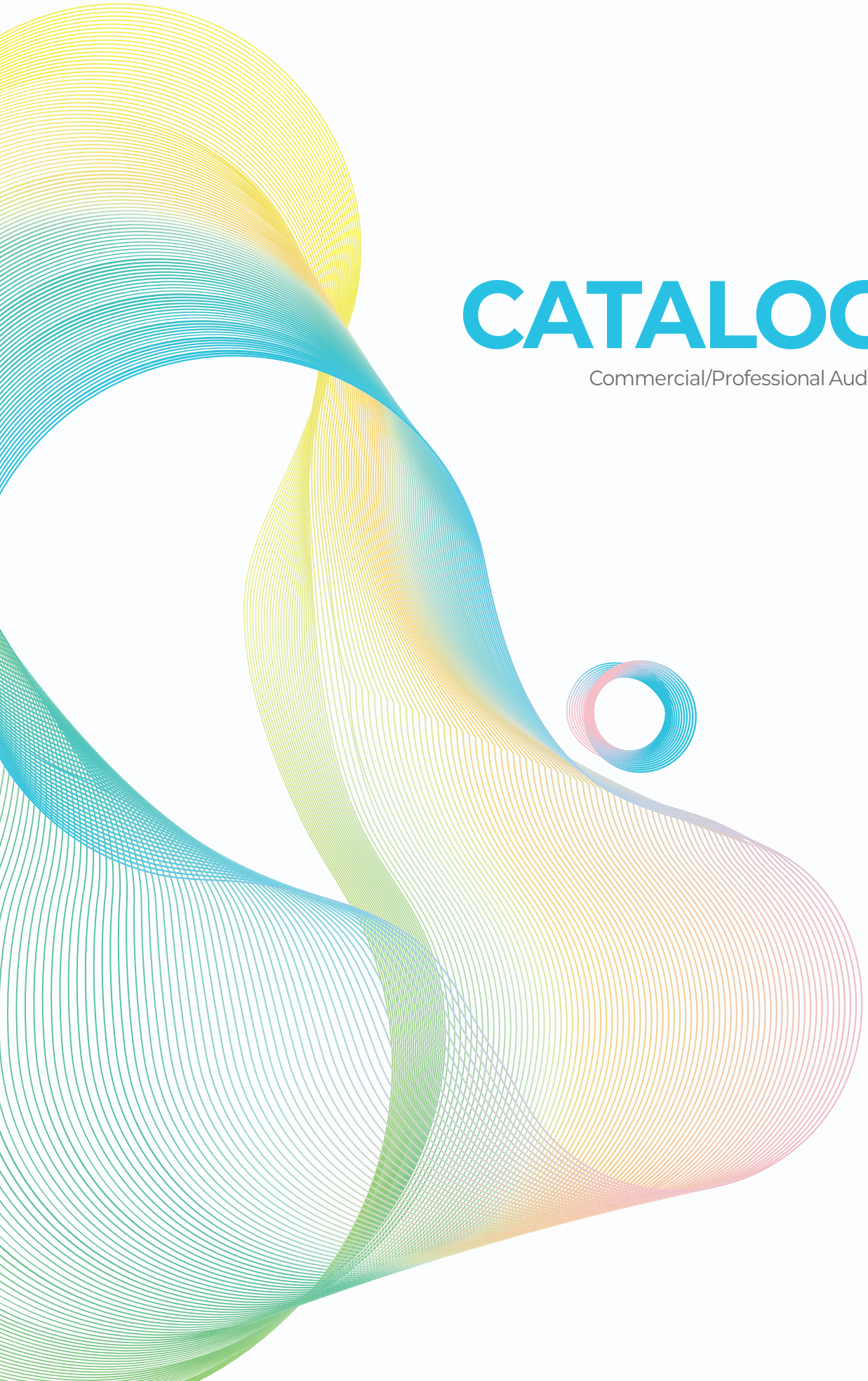
2026

CATALOGUE

Commercial/Professional Audio & Audio Visual



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ICON LIST

POWER
AC only

POWER
DC only

POWER
AC/DC

SOURCE
USB

SOURCE
Tuner

SOURCE
SD Card

SOURCE
CD

SOURCE
internet radio

Zone control
Controllable zone

EQ
Equalizer

Output circuit
Class-D

Function
DSP

Function
Bridge Mode

Function
PC Control

Function
Priority

Function
Controlling through web browser

Dustproof/ Waterproof
IP rating

Speaker unit
Unit quantity

Speaker unit
Driver size

Output terminal
High-Z/Low-Z

Output terminal
Low-Z

Output terminal
High-Z

Output terminal
Support 70V/100V output

Output
Output per channel

SOURCE

CD/MP3/WMA Player

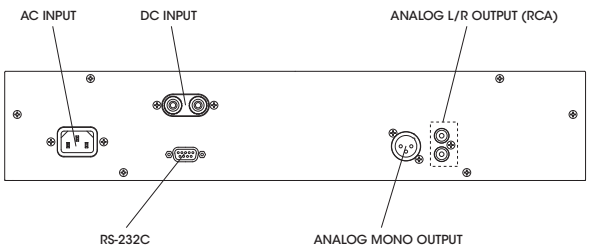
CD-610U



Features

- Supports multi-format encoder
- Decoder such as CD-DA, WMA, MP3 and WAV
- USB Audio Playback
- RS-232 Control port compatible with AMX, Crestron,Inter-m Systems and other 3rd Party Controllers
- STEREO(RCA,XLR), MONO(XLR) Output
- AUTO PLAY (Selectable CD/USB/MEM)
- 20-step PITCH Control
- Burr-Brown PCM 1796 - DAC
- Power Source : AC 100-240V, 50/60Hz, DC 24V (supplied AC mains transformer depends on country requirements)
- Weight : 4.7kg / 10.4lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Multi Source Player

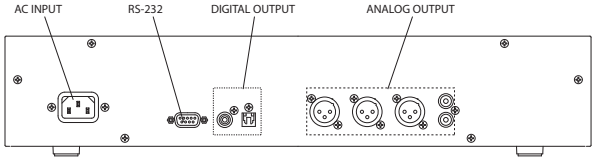
CD-6208



Features

- CD-DA/MP3/WMA/WAV
- Single CD Player with USB port
- Virtual Disc can hold up to 6 standard CD in Memory
- AUTO PLAY (Selectable CD/USB/MEM)
- Cue Function
- Pitch Control
- Balanced (XLR) and Unbalanced (RCA) Analog Audio Output
- Optical & Coaxial TOSLINK Digital Audio Output
- RS-232
- Power Source : AC 100-240V, 50/60Hz (supplied AC mains transformer depends on country requirements)
- Weight : 5.3kg / 11.7lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Multi Source Player

MSP-6142

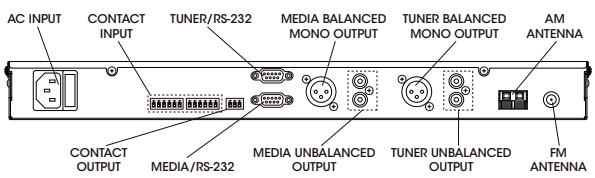


AC USB SD Tuner

Features

- MP3/WMA/WAV file format can be played
- USB, SD, and Bluetooth can be played on a loop or randomly
- Instant playback of designated tracks
- Select and play 10 custom audio source
  (only files within the event folder)
- Remote playback 10 audio sources via external contacts
- Autoplay function (USB, SD, Tuner only)
- Support sleep mode
- Application of oled display
- Supports rs-232 port
- Save 20 FM/AM broadcasting frequencies
  (FM: 10 stations / AM: 10 stations)
- Automatic station selection
- Memorize stations in case of a power outage
- Power Source : AC 120-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Power Consumption : 12W
- Weight : 2.8kg / 6.17lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Stereo Tuner

TU-6200

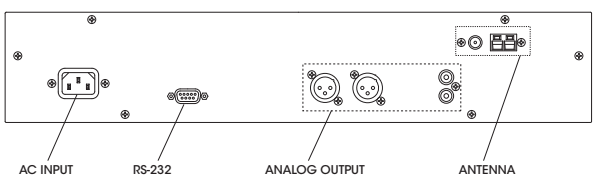


AC Tuner

Features

- Direct Access 40-Station Preset Memory
- LCD Display Indicates Preset Memory Selection
- Auto-Scan and Preset Memory Scan
- Balanced XLR and Unblanced RCA Outputs
- RS-232
- Power Source : AC 100-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Weight : 4.2kg / 9.3lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Program Timer

PW-6242B

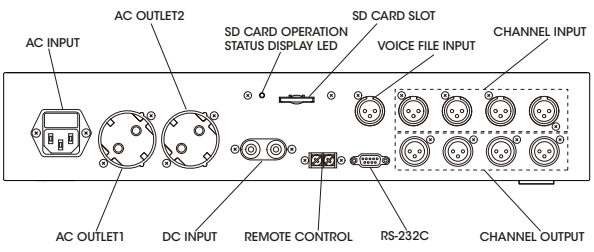




Features

- Play various melody and sound by interlocking installed SD Card with PV-6232A
- Easy operation by separating number buttons and various function buttons for Timer Program input
- Checking the operation status of each function at a glance as well as display various characters by adopting Vacuum Fluorescent Display (Dot matrix)
- Setting the reservation with the management program by connect the PC to the RS-232C port
- Download MP3 files to the SD card inserted in the computer by connecting the USB cable and save files to internal memory with Copy function by attaching USB memory
- Power Source : AC 100-240V, 50/60Hz, DC 24V (supplied AC mains transformer depends on country requirements)
- Power Consumption: 1000W
- Weight: 4.57kg / 10.1lb
- Dimensions (W×H×D) : 482 x 88 x 280mm / 19 x 3.5 x 11in

Rear view



Multi Voice File

PV-6232A

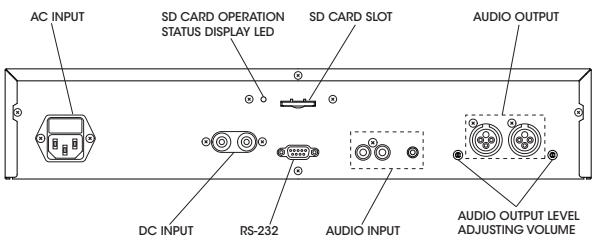




Features

- Play various types (MP3, FLAC, OGG, WAV) of audio files
- Save digital audio files (MP3) in memory storage by recording analog audio signal
- Externally installed SD Card for long time recording (Maximum 32GB)
- Input various external sources (MIC, CD, AUX)
- External USB Interface for memory expansion
- Displaying various functions by adopting Graphic LCD
- Controlling output level with front volume controller
- Power Source : AC 100-240V, 50/60Hz, DC 24V (supplied AC mains transformer depends on country requirements)
- Power Consumption: 15W
- Weight: 4.35kg / 9.59lb
- Dimensions (W×H×D) : 482 x 88 x 280mm / 19 x 3.5 x 11in

Rear view



Chime/Siren

PE-6103

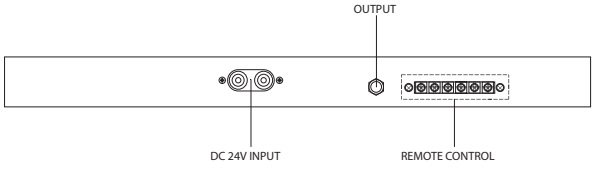


DC

Features

- 3 Types of chime and 2 types of siren (Constant, Undulating)
- 2 Tone & 4 Scalechimes
- Selectable Oscillating siren tone or Steady siren tone
- Power Source : DC 24V
- Weight : 2.8kg / 6.2lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Network Dante Input Converter

NDI-1000

NEW

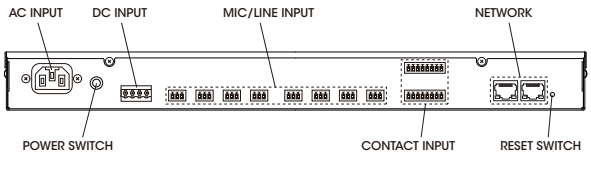


AC DC

Features

- Network-based Dante audio input convertor
- 1U compact design for efficient rack installation
- Supports 8-channel audio inputs (Line & Mic level with phantom power)
- Supports 8-channel contact inputs
- Dual network ports (Primary & Secondary) for redundant network operation
- Supports both AC and DC power supply for emergency operation
- Power Source : AC 120-240V, 50/60Hz, DC 24V, 800mA (supplied AC mains transformer depends on country requirements)
- Power Consumption : 22W
- Weight : 3.1kg
- Dimensions (W×H×D) : 482 × 44 × 280mm

Rear view



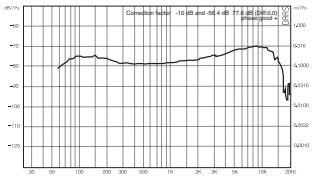
Dynamic Microphone

NMD-810V



Features

- Unidirectional DYNAMIC microphone with excellent frequency characteristics for excellent voice and instrumental sound reproduction.
- Excellent for broadband frequency reproduction by enhancing low and high frequency characteristics, suitable for instrumental sound, VOCAL performances, speeches, etc.



Spec	NMD-810V
Type	Moving Coil Dynamic Microphone
Frequency Response	50Hz~17kHz
Sensitivity	-75dB ±3dB
Impedance	600Ω ±30%
Weight(without cable)	250g ±10g
Dimensions(W×H×D)	ø54 x174mm

Condenser Gooseneck Microphone/Table Stand

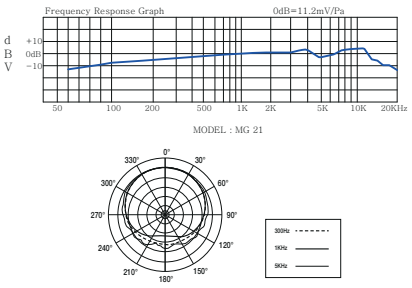
MG21, MGB



MG21



MGB



Features

- MG21 is a microphone designed to produce the high level features smoothly with the Pop filter in the speech. Minimizing interfering sound from the surroundings with its design using the cardioid-directive feature, it provides clear sound effect and high clarity with effective control in the low and high frequency band
- MGB is standard main body, able to be used with all Condenser type, and it provides stability when used in stable Weight Balance

Spec	MG21
Transducer Type	Electret Condenser
Frequency Response	60Hz ~ 17kHz
Impedance	250Ω
Polar Pattern	cardioid
Sensitivity	-39dB(11.2mV)/Pa at 1kHz
THD (Max SPL for 1%)	124dB SPL
Dynamic Range	99dB
Self Noise	25dB SPL A-weighted
Output Connection	3-pin XLR-Male
Power Requirement	DC(Phantom) 12-48V
Weight	220g ± 20g
Dimensions(Length x Head)	555 x ø12.9mm

Spec	MGB
Type	Gooseneck Mic Table Stand
Output Connection	3-pin XLR-Female
Input Connection	3-pin XLR-Male
On/Off Status	LED Indicator
Power	DC(Phantom) 12-48V
Finish	Mat Black
Weight	1.52kg ± 50g
Dimensions(W x H x D)	99 x 83 x 150mm

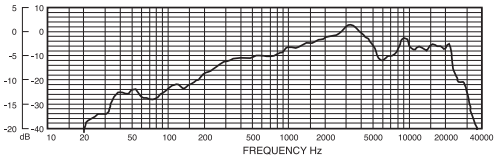
Remote Microphone

RM-01



Features

- Unidirectional dynamic microphone
- Remote chime switch
- Mic on/off switch
- 2 Push buttons for easy operation



Spec	RM-01
Type	Dynamic Microphone
Direction	Unidirectional
Sensitivity	-75dB±3dB
Impedance	400Ω
Frequency Response	60Hz~18kHz
Weight	1.4kg
Dimensions(W×H×D)	90 × 45 × 133mm

Remote Microphone

RM-02, RMC-02

Features

1. RM-02

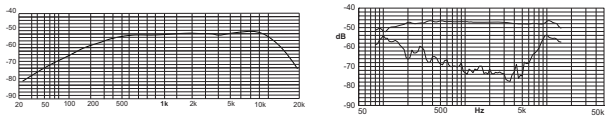
- Zinc die casting material base resistant to shocks and exterior noise
- A zinc die-casting material base which is resistant to a shock and exterior noise

2. RMC-02

- Condenser Microphone
- AA battery used with unnecessary phantom power.
- Zinc die casting material base resistant to shocks and exterior noise
- Balanced output circuit for a remote transmission



RM-02 RMC-02



Spec	RM-02	RMC-02
Type	Moving coil Dynamic microphone	Electric condenser microphone
Direction	Unidirectional	
Input sensitivity(Mic)	- 52dB±3dB (0dB=1V/Pa at 1kHz)	- 45dB ±3dB (0dB=1V/Pa at 1kHz)
Maximum input sound pressure	More than 130dB	More than 105dB
Output impedance(Mic)	600Ω ±30%	
Frequency response(Mic)	50Hz ~ 10kHz	40Hz ~ 16kHz
Gain (Base)	-	-2dB(Battery), -1.5dB(Phantom)
Microphone length	440mm / 17.3in	535mm / 21in
Weight	1.6kg / 3.5lb	
Dimensions (W×H×D)	99(W) x 50(H) x 148(D)mm / 3.9(W) x 2(H) x 5.8(D)in	

Digital public address and
voice alarm system

EVAMATRIX SYSTEM



Overview

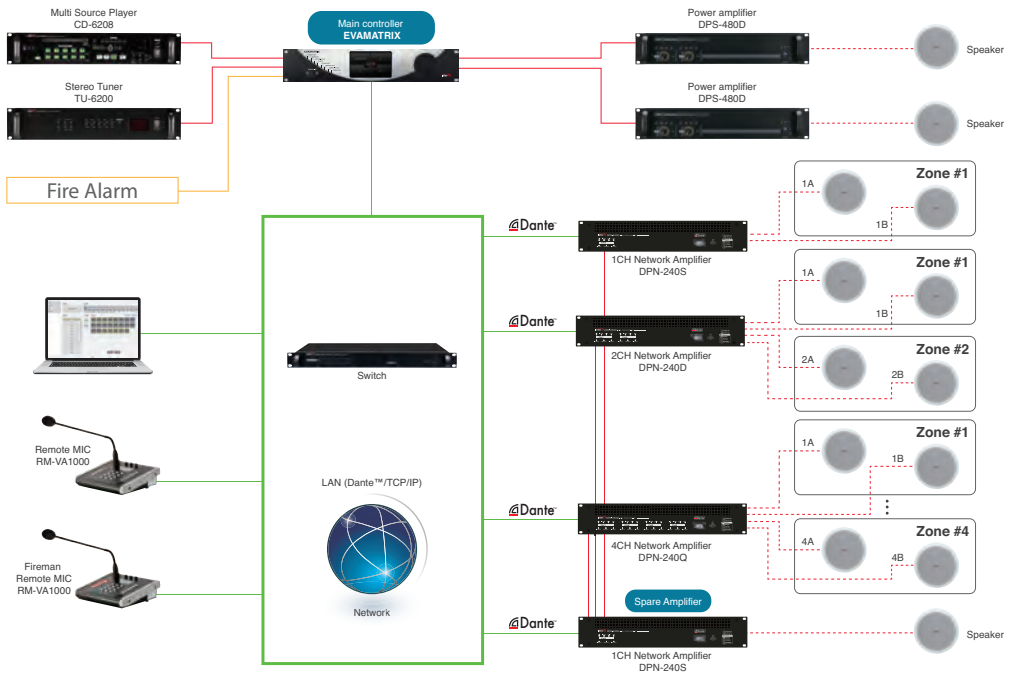
EVAMATRIX is brand-new EN 54-16 certified evacuation and PA sound integration system that provides excellent sound quality and economically advantageous through the most innovative technology.
EVAMATRIX is very simple to use and offer for great operation flexibility with its touchscreen on the front panel or via an intuitive web browser control without platform [Smartphone, tablet, PC, MAC] constraints.
EVAMATRIX is complete digital network system for easy installation and integration. It uses Dante™ technology with redundancy for seamless availability in both centralized and decentralized architecture.

Features

- Evolution of the standard
- Flexible and scalable system configuration
- Continuous control of the whole system
- Sequential emergency broadcast
- Remote Integrated Control
- Mixing and Priority
- Detect fault on Amplifier
- Real time monitoring
- Detailed system monitoring from your fingertips
- No compromise on security
- User-friendly, ergonomic, remotely operated solution.

CONTROLLER

Applications



20×8 Bus Matrix Controller

EVAMATRIX

EN 54 16 Dante™

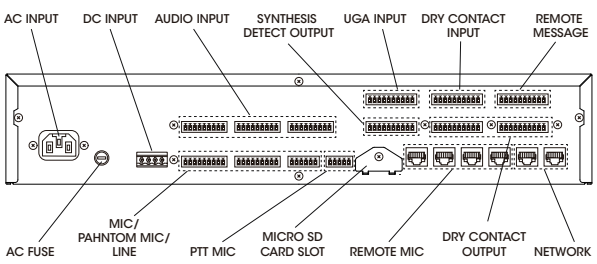


AC DC | 1024 Zone | Priority | Network | WEB

Features

- Main server unit
- Main unit redundancy
- Network redundancy (All components)
- Embedded DSP (All source devices)
- EM MIC (PTT MIC), Emergency message
- MP3 player for BGM
- 8 CH Analog audio input/output
- Contact In/Out
- Dimensions (W×H×D) : 482 × 88 × 279mm / 19 × 3.5 × 11in

Rear view



EVA System Remote MIC

RM-VA1000

EN 54 16 Dante™

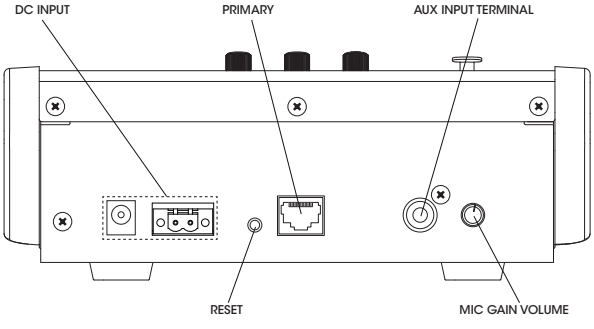


DC | Network

Features

- EVAMATRIX interface through the network
- A device to broadcast paging to each zone
- Gooseneck Mic input
- All Zone On/Off selection
- Chime Mode selection
- Emergency sound selection function
- Audio transmission through Dante
- 10/100/1000Mbps support
- Check the output signal in real time through a monitor speaker
- DC 24V adapter power input terminal
- User can use it as PA and VA microphone
- 5 function buttons can be configured. They make it possible to define groups of broadcast zones for each programming sequence, PA messages or PRE-SET messages.

Rear view



Digital Power Amplifier

DPN-240S/480S

EN 54 16 Dante™

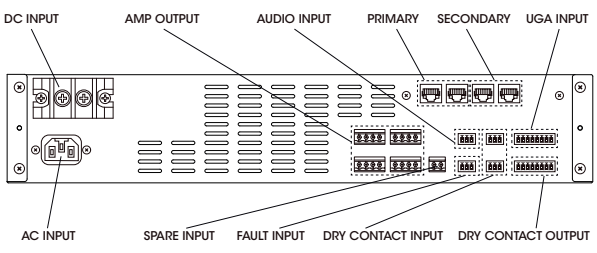


AC DC | High | 240 Watt | 480 Watt | Class-D | Network | WEB

Features

- 240W 1CH/480W 1CH network amplifier for EVAMATRIX
- High-quality audio network transmission via Dante™
- DSP processing for audio
- WEB-BASED network communication and monitoring and control on GUI
- Earth / Line fault detection
- Class-D amplifier with complete protection circuitry (Overload, Output short circuit, Overheat, Mains power problem)
- The system is operable when the AC power outage using 24V DC power from the battery
- A and B zone output per each channel
- Power Source :
  DPN-240S : AC 220-240V, 50/60Hz, 95W
  DPN-480S : AC 220-240V, 50/60Hz, 135W
  (supplied AC mains transformer depends on country requirements)
- Weight : 8.7kg / 19.2lb
- Dimensions (W×H×D) : 482 × 88 × 450mm / 18.9 × 3.4 × 17.7in

Rear view



Digital Power Amplifier

DPN-240D/480D

EN 54 16 Dante™

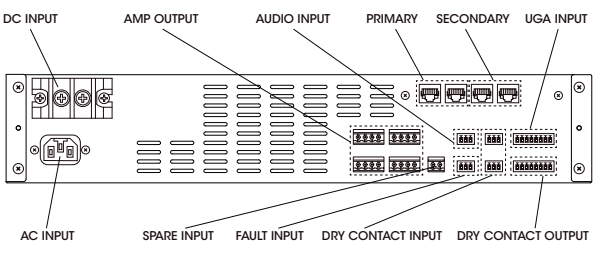


AC DC | High | 240 Watt | 480 Watt | Class-D | Network | WEB

Features

- 240W 2CH/480W 2CH network amplifier for EVAMATRIX
- High-quality audio network transmission via Dante™
- DSP processing for audio
- WEB-BASED network communication and monitoring and control on GUI
- Earth / Line fault detection
- Class-D amplifier with complete protection circuitry (Overload, Output short circuit, Overheat, Mains power problem)
- The system is operable when the AC power outage using 24V DC power from the battery
- A and B zone output per each channel
- Power Source :
  DPN-240D : AC 220-240V, 50/60Hz, 140W
  DPN-480D : AC 220-240V, 50/60Hz, 240W
  (supplied AC mains transformer depends on country requirements)
- Weight : DPN-240D : 9.02kg/19.9lb, DPN-480D : 9.88kg/21.8lb
- Dimensions (W×H×D) : 482 × 88 × 450mm / 18.9 × 3.4 × 17.7in

Rear view



Digital Power Amplifier

DPN-240Q

EN 54 16 Dante™

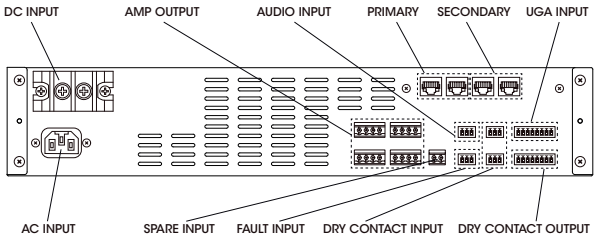


AC DC | High | 240 Watt | Class-D | Network | WEB

Features

- 240W 4CH network amplifier for EVAMATRIX
- High-quality audio network transmission via Dante™
- DSP processing for audio
- WEB-BASED network communication and monitoring and control on GUI
- Earth / Line fault detection
- Class-D amplifier with complete protection circuitry (Overload, Output short circuit, Overheat, Mains power problem)
- The system is operable when the AC power outage using 24V DC power from the battery
- A and B zone output per each channel
- Power Source : AC 220-240V, 50/60Hz, 280W (supplied AC mains transformer depends on country requirements)
- Weight : 10.1kg / 21.3lb
- Dimensions (W×H×D) : 482 × 88 × 450mm / 18.9 × 3.4 × 17.7in

Rear view



End-of-line Element

EOL-20

EN 54 16 Dante™



Features

- Module for checking the integrity of the loudspeaker line
- To be connected at the end of the line after the last speaker
- For use in the EVAMATRIX system
- LOW position : Speaker lines load less than or equal to 150W
- HIGH position : Speaker lines load greater than 150W
- Weight : 0.16kg / 0.35lb
- Dimensions (W×H×D) : 482 × 44 × 20mm / 18.9 × 1.7 × 0.8in

NOTE

Inter-M integrated
digital broadcasting solution

IPA-100 SYSTEM



Overview

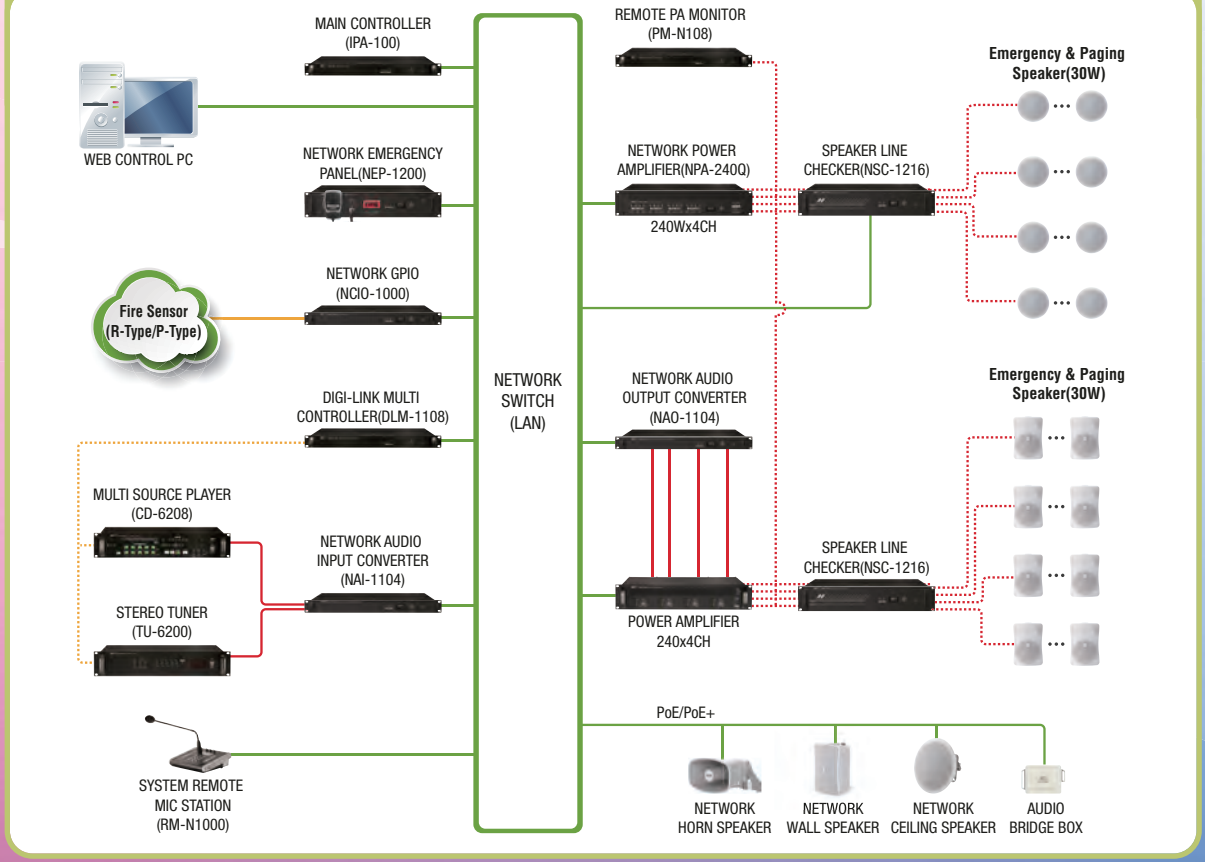
The IPA system is a **digital PA broadcasting system** that provides high-quality broadcasting to respond to the **high-level and large-scale market environment**. From small facilities such as schools and buildings to large spaces such as high-rise buildings, parks, university campuses, and military bases, **we provide an optimal solution for various requirements.**
It is a system to which the AOE digital audio protocol developed by Inter-M, and it is a system that can transmit from MP3 sound sources to uncompressed high-quality sound sources. Depending on the usage environment, from short to long-distance broadcasting is possible without restrictions. Installation, setting, and control through a web browser are easy, so user can operate and manage the system easily.

Features

- High-quality digital audio
- Convenience of operational control (Web-based)
- Installation environment without the restriction of distance
- Corresponding digital systems of the IBS building
- Stable system management.

CONTROLLER

Applications



Main Controller

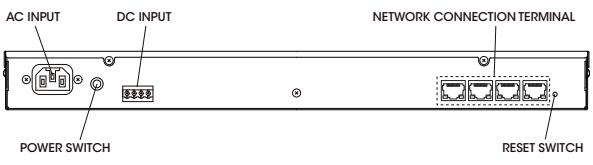
IPA-100



Features

- Integrated control of all sound and video equipment connected to the network
- Network-connected equipment DB management
- Standard network protocol applied 100/1000Mbps support
- DHCP, STATIC IP support
- Support network daisy chain method
- Web-based integrated control software
- Convenient broadcasting area setting
- System monitoring using the web
- Support web user security function
- Log file saving function
- Up to 24 source devices (CDP, TUNER, RM, etc.) can be selected
- Up to 512 zones can be selected
- Up to 12 groups can be designated
- Power Source : AC 120-240V, 50/60Hz, DC 24V, 300mA (supplied AC mains transformer depends on country requirements)
- Power Consumption : Max 10W
- Weight : 2.9kg / 6.39lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Network System Remote MIC Station

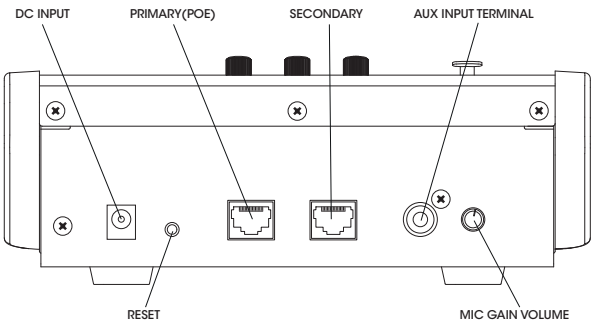
RM-N1000



Features

- Paging broadcast through network
- Gooseneck microphone
- 0~9 Key, All, Talk, Chime buttons
- 2.43 inch OLED DISPLAY
- Output level meter
- monitor speaker
- Input/output control volume
- DC 24V power input
- Power supply using PoE (Power over Ethernet)
- Power Source : DC 24V
- Weight : 1.29kg / 2.84lb
- Dimensions (W×H×D) : 200 × 73 × 206mm / 7.9 × 2.9 × 8.1in

Rear view



Network Emergency Panel

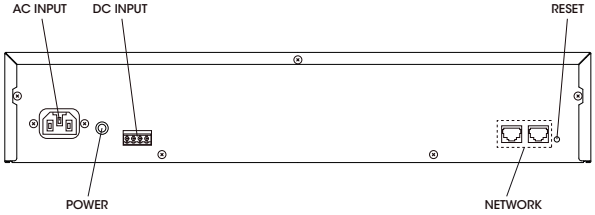
NEP-1200



Features

- Universal network transmission interface
- Transmitting emergency broadcasting through network
- Check status of equipment on web page through network
- Schedule broadcasting through network (MP3, TTS, etc.)
- 100/1000Mbps support
- DHCP, STATIC IP support
- Can be used in emergencies with both AC and DC power
- Power Source : AC 120-240V, 50/60Hz, DC 24V, 400mA (supplied AC mains transformer depends on country requirements)
- Power Consumption : Max 15W
- Weight : 3.9kg / 8.59lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Network GPIO

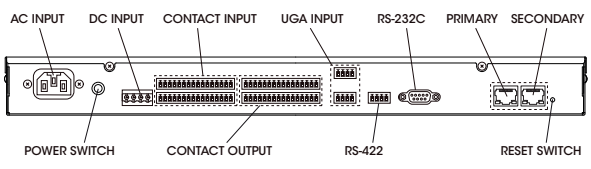
NCIO-1000



Features

- Universal network transmission interface
- Bi-directional contact data transmission/reception and control through network (IN/OUT each 16CH)
- Check status of equipment on web page through network
- Bidirectional serial data transmission and reception through network (RS-232C, RS-422)
- UGA (Unit Management Alarm) INPUT 4CH (UGA: Fire contact INPUT for European-style buildings)
- 100/1000Mbps support
- DHCP, STATIC IP support
- Can be used in emergencies with both AC and DC power
- Power Source : AC 120-240V, 50/60Hz, DC 24V, 500mA (supplied AC mains transformer depends on country requirements)
- Power Consumption : Max 15W
- Weight : 3kg / 6.61lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Network Audio Input Converter

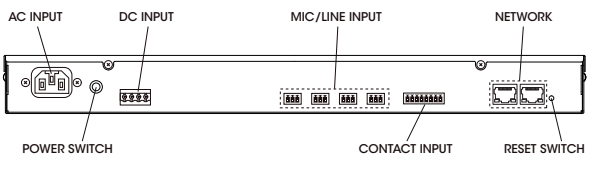
NAI-1104



Features

- Matrix system for PA broadcasting
- 1U size compact design makes efficient use of space during rack installation
- Interlocking with external equipment through 4 contact inputs
- Works with audio input/output equipment that supports AoE technology
- 4-channel audio input
- Can be used in emergencies with both AC and DC power
- Power Source : AC 120-240V, 50/60Hz, DC 24V, 800mA (supplied AC mains transformer depends on country requirements)
- Power Consumption : 22W
- Weight : 3.1kg / 6.83lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Digi-Link Multi Controller

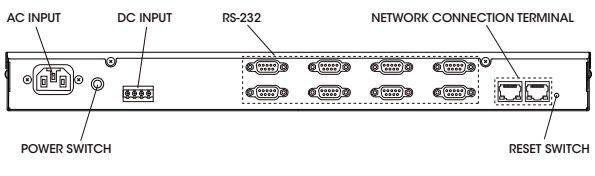
DLM-1108



Features

- Universal network transmission interface
- Control source equipment through RS-323C (D-SUB 9Pin)
- Check status of equipment on web page through network
- When the main software transmits the equipment control protocol through the network, the command is transmitted to the equipment through the RS-232C terminal. (Equipment control is controlled by the main software, and this equipment receives the protocol through the network and delivers it to the player equipment)
- 100/1000Mbps support
- DHCP, STATIC IP support
- Can be used in emergencies with both AC and DC power
- Power Source : AC 120-240V, 50/60Hz, DC 24V, 300mA (supplied AC mains transformer depends on country requirements)
- Power Consumption : Max 10W
- Weight : 3kg / 6.61lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



24

Network Audio Output Converter

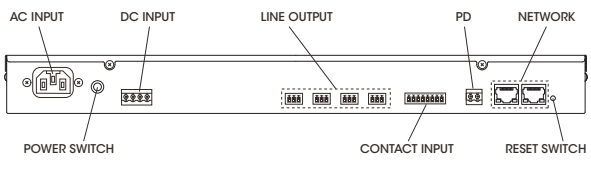
NAO-1104



Features

- Matrix system for PA broadcasting
- 1U size compact design makes efficient use of space during rack installation
- Interlocking with external equipment through 4 contact inputs
- Interworking with audio input equipment that supports AoE technology
- 4-channel audio output
- Can be used in emergencies with both AC and DC power
- Power Source : AC 120-240V, 50/60Hz, DC 24V, 800mA (supplied AC mains transformer depends on country requirements)
- Power Consumption : 20W
- Weight : 3.1kg / 6.83lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Speaker Line Checker

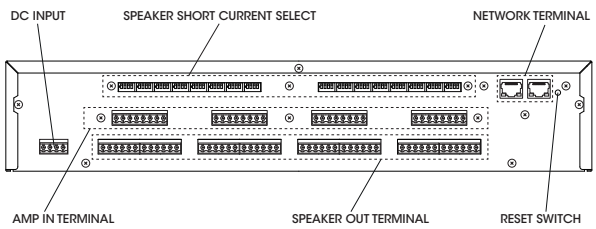
NSC-1216



Features

- PC integrated control
- Real-time short detection function
- Display of various line conditions
- 3-wire speaker line control
- Low voltage detection
- Real-time short-check capacity (variable)/recommended amp capacity: 0.8A/120W or more, 1.6A/200W or more, 2.4A/300W or more, 3.2A/360W or more, 4.0A/400W or more
- Power Source : DC 24V, 750mA
- Weight : 4.6kg / 10.14lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Remote PA Monitor

PM-N108

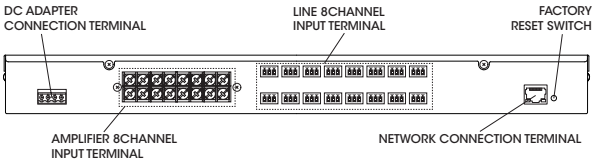


DC Network

Features

- Sound source monitoring through network
- LINE 8-channel, AMP 8-channel audio input
- Receive audio via network
- 100/1000Mbps network communication support
- DHCP, STATIC IP support (Default STATIC IP: 192.168.1.99)
- Power Source : DC 24V, 300mA
- Weight : 3.04kg / 6.7lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Network Power Amplifier

NPA-240S/480S

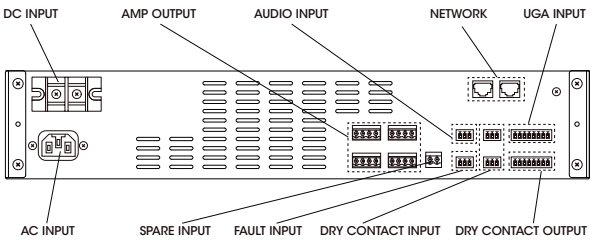


AC DC Class-D DSP Network

Features

- Audio signal control through DSP processing
- Network communication, system management and remote control through IPA-100
- Possible to input audio using AOE protocol through network
- NPA-240S : Class-D amplifier with 240W output on 1 channel
- NPA-480S : Class-D amplifier with 480W output on 1 channel
- Real-time detection and protection of shorts between audio output lines and between audio output lines and ground
- Can be used in emergencies with both AC and DC power
- Power Source : AC 220-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Power Consumption : 135W
- Weight : 8.4kg / 18.51lb
- Dimensions (W×H×D) : 482 × 88 × 454mm / 19 × 3.5 × 17.9in

Rear view



Network Power Amplifier

NPA-240D/480D

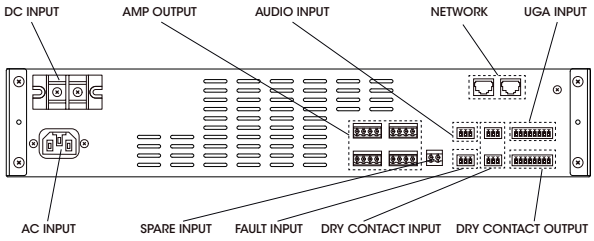


AC DC | Class-D | DSP | Network

Features

- Audio signal control through DSP processing
- Network communication, system management and remote control through IPA-100
- Possible to input audio using AOE protocol through network
- NPA-240D : Class-D amplifier with 240W output on 2 channels
- NPA-480D : Class-D amplifier with 480W output on 2 channels
- Real-time detection and protection of shorts between audio output lines and between audio output lines and ground
- Can be used in emergencies with both AC and DC power
- Power Source : AC 220-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Power Consumption : NPA-240D : 140W, NPA-480D : 240W
- Weight : 8.9kg / 19.62lb
- Dimensions (W×H×D) : 482 × 88 × 454mm / 19 × 3.5 × 17.9in

Rear view



Network Power Amplifier

NPA-240Q

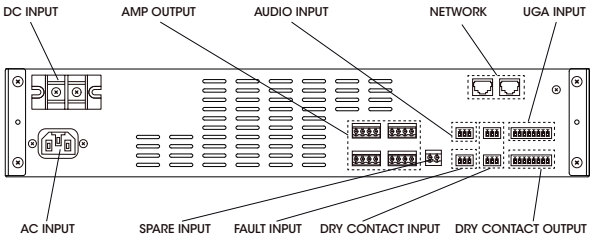


AC DC | Class-D | DSP | Network

Features

- Audio signal control through DSP processing
- Network communication, system management and remote control through IPA-100
- Possible to input audio using AOE protocol through network
- Class-D amplifier with 240W output on 4-channels
- Real-time detection and protection of shorts between audio output lines and between audio output lines and ground
- Power Source : AC 220-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Power Consumption : 280W
- Weight : 10kg / 22.04lb
- Dimensions (W×H×D) : 482 × 88 × 454mm / 19 × 3.5 × 17.9in

Rear view



Experience New Technology

IP SPEAKER SYSTEM



Overview

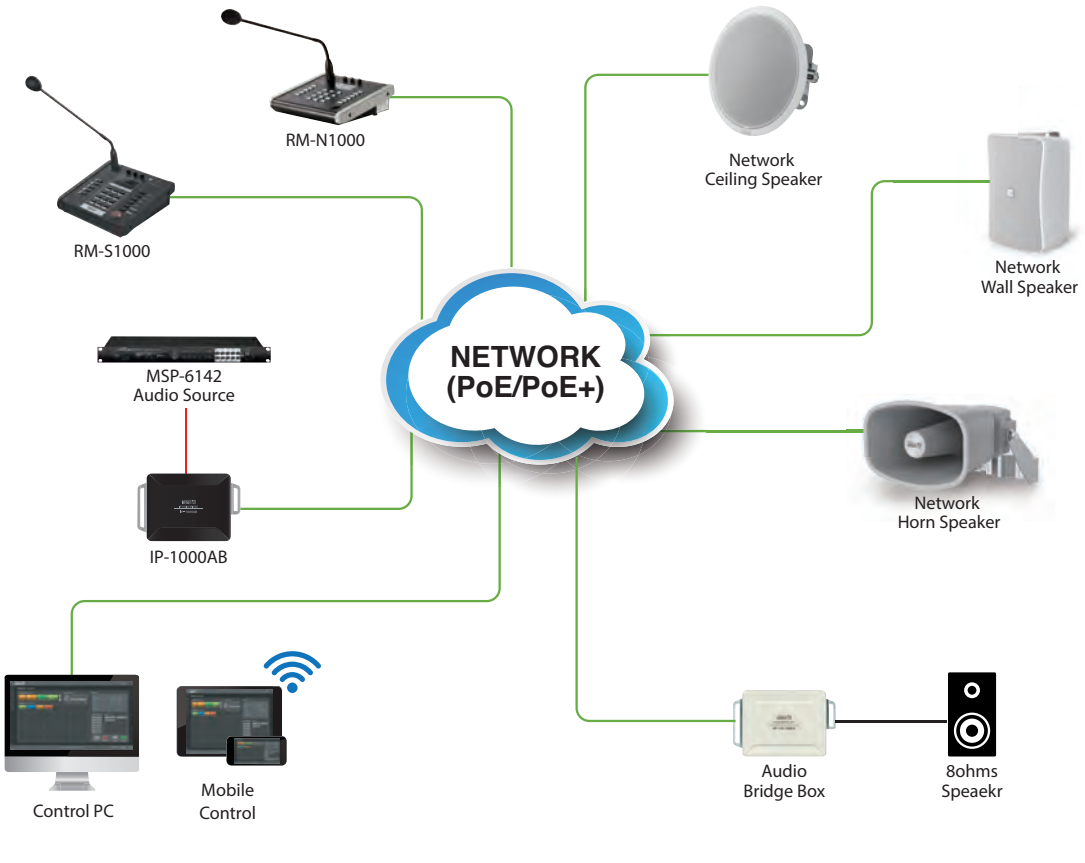
Inter-M's IP audio system can operate and manage broadcasts via standard Ethernet networking protocols.
Through the network, the system receives power and audio, and users can monitor and manage the system.
IP audio system basically provides annual scheduler, TTS, and graphically visualized monitoring functions.

Features

- Individual zone control
- High Audio quality
- Simple power supply
- Scalability
- Easy plug and play

CONTROLLER

Applications



Audio Matrix

IP-1015BX



AC Class-D SD Network

Features

- Class-D 15W amplifier
- Support PoE plus (IEEE 802.3at Type2 Class4)
- 10/100 BASE-T ETHERNET (IP: 192.168.1.99)
- Micro SD memory slot
- Support VoIP, BGM, Scheduler, TTS
- Weight : 0.24kg / 0.53lb
- Dimensions (W×H×D) : 123 x 80 x 30.6mm / 4.84 x 3.14 x 1.2in

Network Ceiling Speaker

IP-1015CS



AC 2 way 8" Class-D SD Network

Features

- All-in-one speaker system
- Standard network connection
- 8" 2 Way UNIT used. High sound pressure level support
- Built-in Class-D 15W amplifier (IP-1015BX)
- PoE plus (IEEE 802.3at Type2 Class4) support
- 10/100 BASE-T ETHERNET (IP: 192.168.1.99)
- Micro SD memory slot
- VoIP, BGM, Scheduler, TTS function
- Easy installation with PoE powered via network cable
- Weight : 1.8kg / 3.97lb
- Dimensions (W×H) : Φ264 x 144mm / Φ10.4 x 5.7in

Network Wall Speaker

IP-1015WS



AC · 2 way · 5 · IP54 · SD · Network

Features

- All-in-one speaker system
- Standard network connection
- 5” 2 way UNIT used. High sound pressure level support
- PoE plus (IEEE 802.3at Type2 Class4) support
- 10/100 BASE-T ETHERNET (IP: 192.168.1.99)
- Micro SD memory slot
- VoIP, BGM, Scheduler, TTS function
- Easy installation with PoE powered via network cable
- Waterproof (IP54)
- U bracket only available
- Weight : 2.4kg / 5.3lb
- Dimensions (W×H×D) : 173 x 250 x 137.5mm / 6.8 x 9.8 x 5.4in

Network Horn Speaker

IP-1015HSA

NEW



AC

Features

- All-in-one speaker system
- Standard network connection
- PoE+ (IEEE 802.3at Type2 Class4) supported
- Play WAV, MP3 files
- Contact input/output
- 10/100 BASE-T ETHERNET (Initial IP : 192.168.1.99)
- VoIP, BGM, scheduler, TTS function
- 1GB user internal memory
- Dustproof and waterproof function (IP66)
- Weight : 2.5kg / 5.5lb
- Dimensions (W×H×D) : 254 x 169 x 310mm / 10 x 6.65 x 12.2in

Main Controller

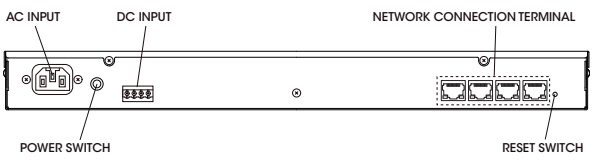
IPA-100



Features

- Integrated control of all sound and video equipment connected to the network
- Network-connected equipment DB management
- Standard network protocol applied 100/1000Mbps support
- DHCP, STATIC IP support
- Support network daisy chain method
- Web-based integrated control software
- Convenient broadcasting area setting
- System monitoring using the web
- Support web user security function
- Log file saving function
- Up to 24 source devices (CDP, TUNER, RM, etc.) can be selected
- Up to 512 zones can be selected
- Up to 12 groups can be designated
- Power Source : AC 120-240V, 50/60Hz, DC 24V, 300mA (supplied AC mains transformer depends on country requirements)
- Power Consumption : Max 10W
- Weight : 2.9kg / 6.39lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Network System Remote MIC Station

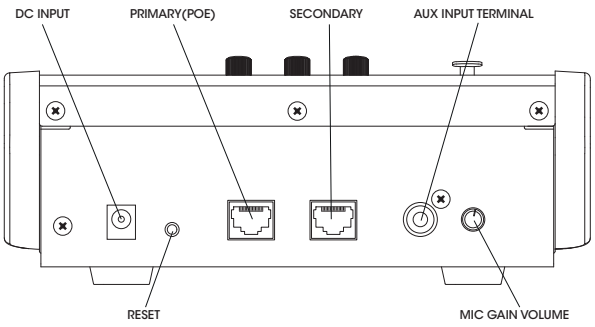
RM-N1000



Features

- Paging broadcast through network
- Gooseneck microphone
- 0~9 Key, All, Talk, Chime buttons
- 2.43 inch OLED DISPLAY
- Output level meter
- monitor speaker
- Input/output control volume
- DC 24V power input
- Power supply using PoE (Power over Ethernet)
- Power Source : DC 24V
- Weight : 1.29kg / 2.84lb
- Dimensions (W×H×D) : 200 × 73 × 206mm / 7.9 × 2.9 × 8.1in

Rear view



System Remote MIC Station

RM-S1000



DC SD Network WEB

Features

- Paging broadcast through the network
- Can be used with Inter-M IP speaker/IPA system
- Inter-M AOE-based network audio transceiver
- SIP(Session Initiation Protocol) support
- Support eco canceler for bidirectional calls
- Audio input/output volume control
- Monitor audio output through speakers and level meters
- Powered by POE or DC 24V
- Weight : 1.3kg / 2.86lb
- Dimensions (W×H×D) : 200 x 73 x 206mm / 7.9 x 2.9 x 8.1in

IP Audio Bridge

IP-1000AB



DC Network

Features

- Inter-M AOE-based network audio transmitter
- Can be used with Inter-M IP speaker/IPA system
- 1CH line audio input
- WAV, MP3 file streaming available
- It is possible to integrate with external devices throughcontact input and output
- 1GB of internal memory for storing music sources(Up to 32GB of expansion through Micro SD card)
- Device control through the Web GUI
- Support for installation of table types or walls
- Weight : 0.24kg / 0.52lb
- Dimensions (W×H×D) : 123 x 80 x 30.6mm / 4.8 x 3.14 x 1.2in

Optimal digital network
broadcasting system

IPA-10 SYSTEM



Overview

It is a digital network system that can replace 1 BUS 6000 system. The IPA-10 system replaces all functions provided by the existing analog system and provides an optimal broadcasting environment with more additional functions. In addition, by condensing the functions of 8 devices into 3 devices, it boasts simple installation and high space efficiency. Any place equipped with network infrastructure, which is an advantage of digital network equipment, can freely install equipment without space limitations.

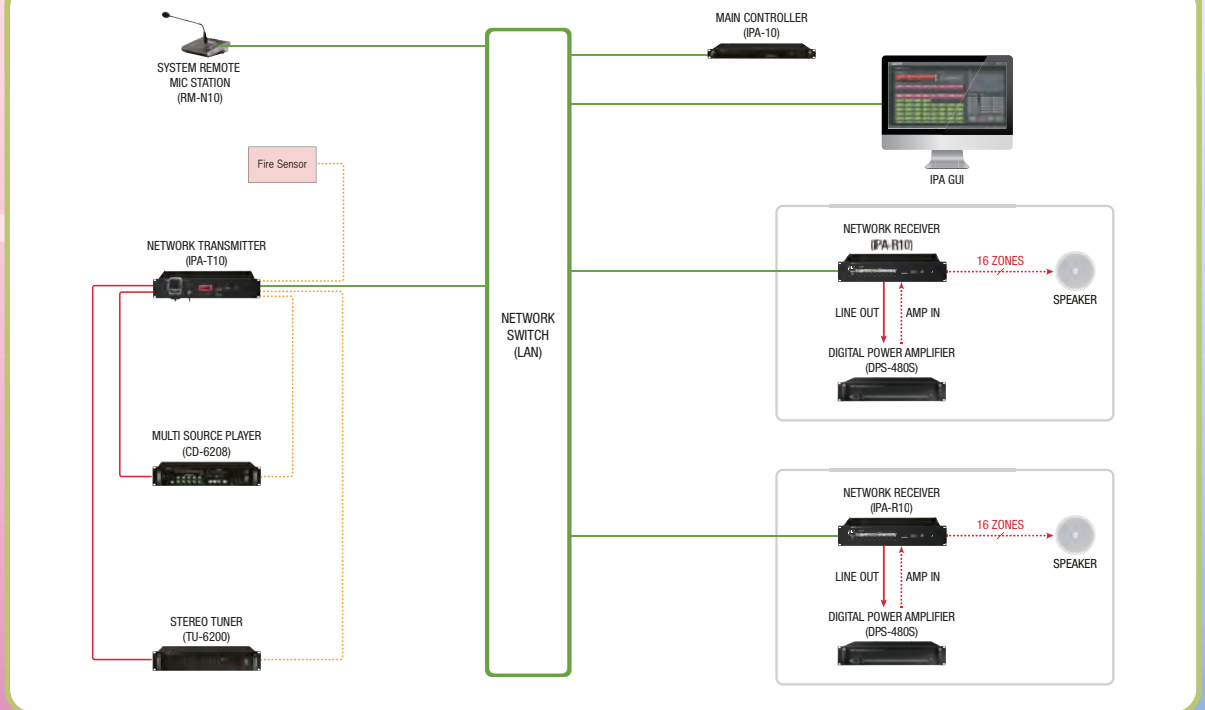
Features

- **Easy and convenient operation**
  IPA-10 provides a web-type GUI so that it can be easily operated anytime, anywhere through the network. The intuitive GUI makes complex system settings and operations simple and easy for operators to use. A network switch is built into the device, so it can be connected and used without a separate switch device.

- **Scalability of IPA-10**
  In the existing matrix, the hardware connection is fixed, but the network method is a system that can be configured without deterioration of sound quality simply by connecting to the network regardless of location.
  IPA-10 is a network system that responds to the 6000 1 BUS market. Conventionally, when configuring a broadcasting system in a distributed building, multiple devices must be installed in one location, but IPA-10 uses a network, so equipment can be freely distributed and installed regardless of location.

CONTROLLER

Applications



Main Controller

IPA-10

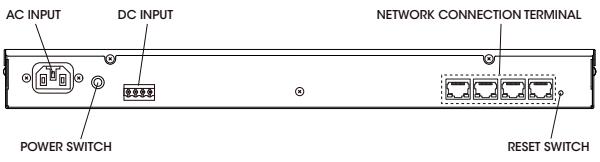




Features

- Centralized control of all network-connected audio and video devices
- Intuitive Web-based GUI for easy control via PC and tablet
- Built-in annual scheduler with TTS support
- Seamless integration with IP speakers through GUI
- Embedded 4-port network switch for flexible system configuration
- Supports up to 16 network remote microphones
- Flexible grouping with up to 255 groups available
- Efficient management of network-connected device database
- Standard network protocol for enhanced compatibility
- High-speed network support (10/100/1000 Mbps)
- Supports both DHCP and Static IP configurations
- Daisy-chain network topology support for easy expansion
- User-friendly broadcast zone configuration
- Real-time system monitoring via web interface
- Enhanced web-based user security features
- Reliable log file storage for system tracking
- Supports up to 192 broadcast zones(Up to 16 zones per IPA-R10, expandable up to 192 zones regardless of unit quantity within system limit)
- Power Supply : AC 120-240V, 50/60Hz / DC 24V, 300mA
- Power Consumption : Max. 10W
- Weight : 2.9kg / 6.39lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Network System Remote MIC Station

RM-N10

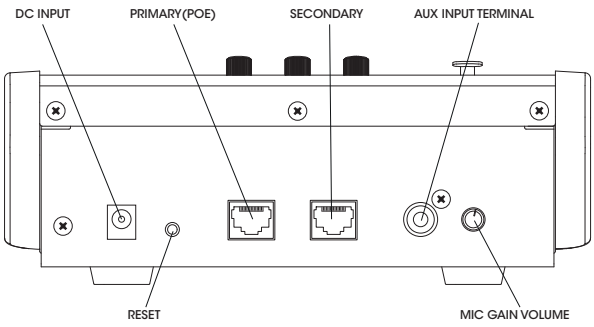




Features

- Paging broadcast through network
- Gooseneck microphone
- 0~9 Key, All, Talk, Chime buttons
- 2.43 inch OLED DISPLAY
- Output level meter
- monitor speaker
- Input/output control volume
- DC 24V power input
- Power supply using PoE (Power over Ethernet)
- Power Source : DC 24V
- Weight : 1.29kg / 2.84lb
- Dimensions (W×H×D) : 200 × 73 × 206mm / 7.9 × 2.9 × 8.1in

Rear view



Network Transmitter

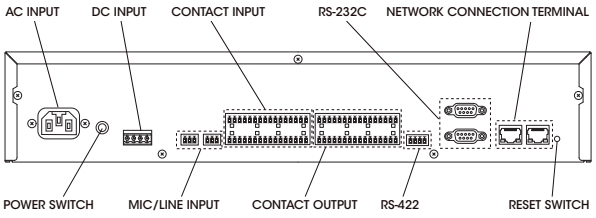
IPA-T10



Features

- Universal network transmission interface
- Bidirectional contact data transmission/reception and control (IN/OUT 16CH each)
- Bidirectional serial data transmission/reception (RS-232C, RS-422)
- Emergency broadcast transmission through network (PTT MIC, SIREN)
- Schedule broadcasting through network (MP3, TTS)
- Receives 2-channel analog audio signals and transmits them as digital audio
- Check equipment status on the web page
- 100/1000Mbps support
- DHCP, STATIC IP support
- Available for emergency use with both AC and DC power
- Power Source : AC 120-240V~, 50/60Hz, 0.43A, DC 24V, 800mA (supplied AC mains transformer depends on country requirements)
- Power Consumption : 22W
- Weight : 3.2kg / 7.05lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Network Receiver

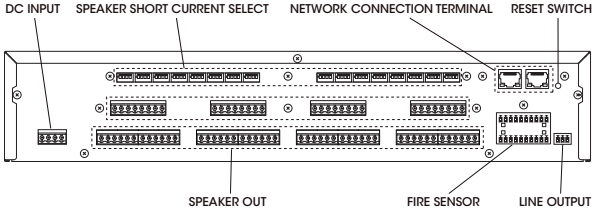
IPA-R10



Features

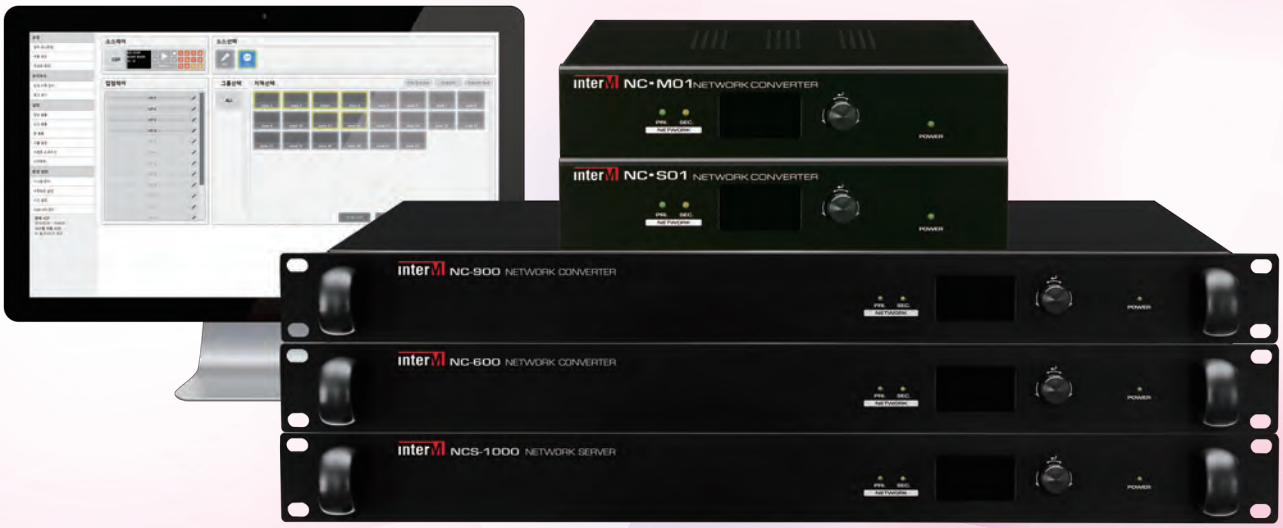
- PC integrated control
- Real-time short detection function
- Display of various line conditions
- 3-wire speaker line control
- Low voltage detection
- Buzzer operation
- Power Source : DC 24V, 750mA
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Get started with Inter-M
network system for integrated control

NETWORK CONNECTING SYSTEM



Overview

Inter-M Network Connecting System is the best solution for integrated control, based on TCP/IP network and web-page design. Network Connecting System makes 6000 System, NPX, and ARM-911A to be integrated with ease.

Not only Inter-M products but also 3rd party equipment is compatible and expandable so that existing system can be converted to a network system.

Features

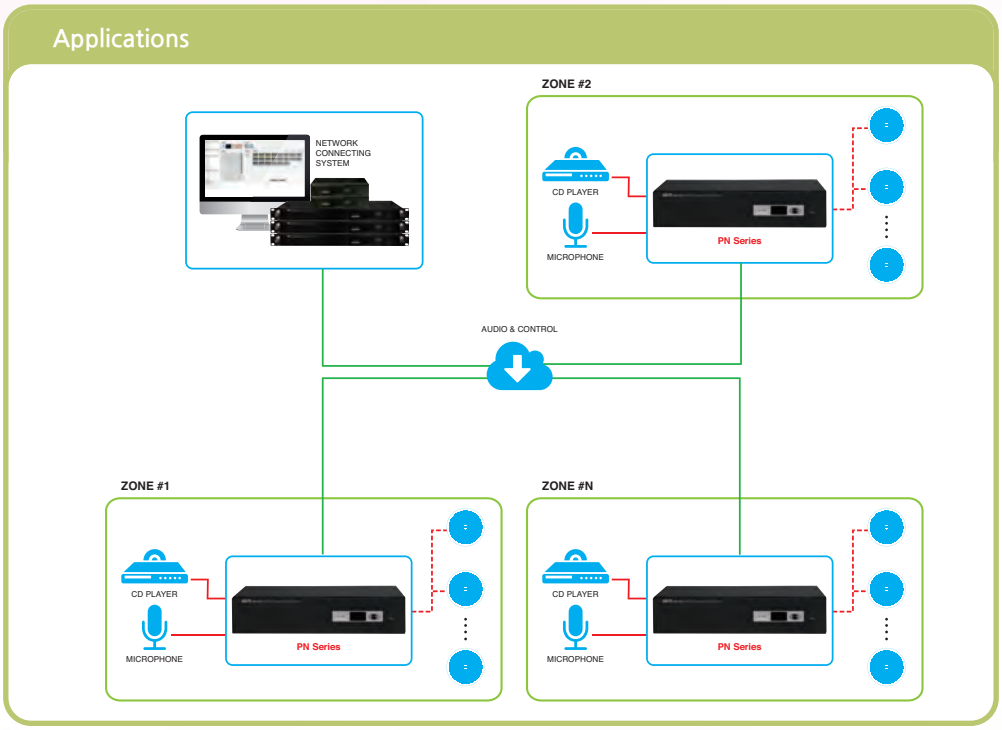
1. **Simple system integration using network**

   Network Connecting System reduces cost and time for physical cabling because NCS is a network based system.

2. **All-in-one Integrated control**

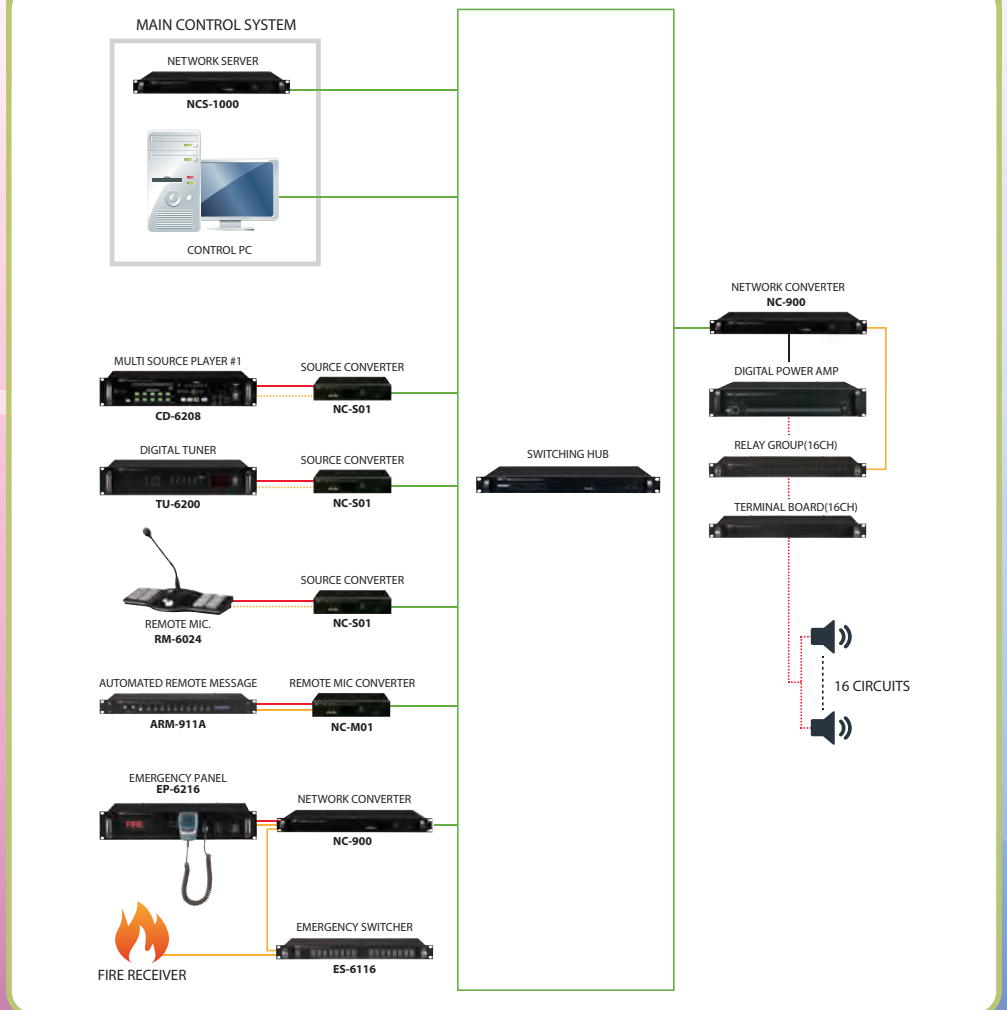
   The previous generation of PA system required individual system control, making impossible to control multiple systems at once. However, using Network Connecting System enables unrestricted integrated control over multiple PA systems, easy expansion, and efficient system operation.

Applications



CONTROLLER

Applications



Network Control Server

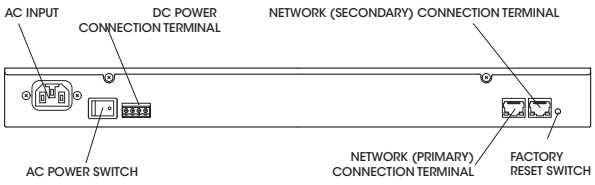
NCS-1000



Features

- Integrated control of all the sound and video devices connected to the network
- Applying standard network protocol
- Supporting 100/1000 Mbps
- Supporting DHCP, STATIC IP
- Supporting network bonding
- Web-based integrated control software
- Setting broadcast area conveniently
- Web-based system monitoring
- Supporting web user security feature
- Log file saving function
- Available to select up to 24 source devices (CDP, TUNER, RM, ETC.)
- Available to select up to 512 local zones
- Available to specify up to 12 groups
- Provides web-based integrated control software (MS-N300)
- Power Source : AC 120-240V, 50/60Hz,10W, DC 24V, 350mA (supplied AC mains transformer depends on country requirements)
- Weight : 3.02kg / 6.66lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Network System Remote MIC Station

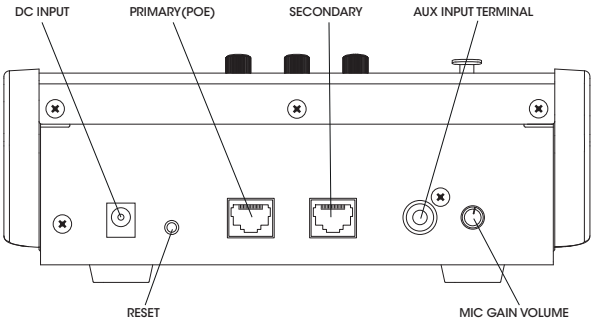
RM-N3000



Features

- Broadcast paging via network
- Gooseneck microphone
- 0~9 key, all, talk, chime button
- 2.43 inch OLED display
- Output level meter
- Monitor speaker
- Input/output adjustment volume
- Power supply using POE (power over ethernet)
- Power Source : DC 24V
- Weight : 1.29kg / 2.84lb
- Dimensions (W×H×D) : 200 × 73 × 206mm / 7.9 × 2.9 × 8.1in

Rear view



Network Converter

NC-900

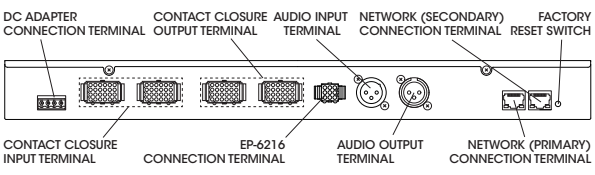


DC

Features

- Controlling ES-6116, PS-6116I, RG-6116, and EP-6216 through network
- Transferring audio data (MP3, PCM, RTSP) through network
- Supporting 100/1000 Mbps
- Supporting DHCP, STATIC IP
- Supporting network bonding
- Power Source : DC 24V, 350mA
- Weight : 3.04kg / 6.7lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Network Converter

NC-600

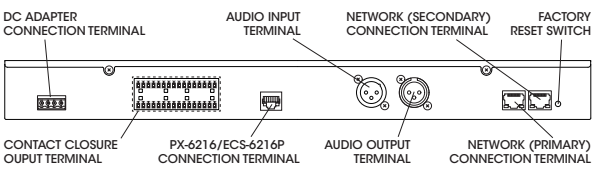


DC

Features

- Controlling 6000 1-unification /8-unification RM terminal through network
- Controlling 16-channel contact closure output via through network
- Transferring audio data through network
- Supporting 100/1000 Mbps
- Supporting DHCP, STATIC IP (DEFAULT, STATIC IP: 192.168.1.99)
- Supporting network bonding
- Power Source : DC 24V, 550mA
- Weight : 2.84kg / 6.26lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Network Converter

NC-S01

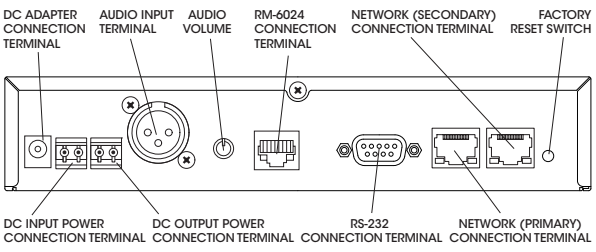


DC

Features

- RM-6024 interface through the network
- Controlling RS-232C through the network (Remote controlling source device, CD-6208/TU-6200)
- Transmitting audio through the network (MP3, PCM)
- Supporting 100/1000 Mbps
- Supporting DHCP, STATIC IP
- Supporting network bonding
- Power Source : Input : DC 24V, 800mA, Output : DC 24V, 500mA
- Weight : 1kg / 2.2lb
- Dimensions (W×H×D) : 210 × 44 × 180mm / 8.3 × 1.7 × 7.1in

Rear view



Network Converter

NC-M01

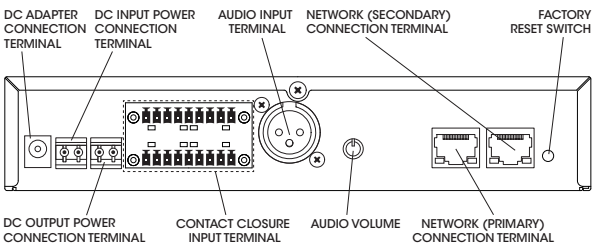


DC

Features

- RM-6016 contact closure interface through the network
- Transmitting audio through the network (MP3, PCM)
- Supporting 100/1000 Mbps
- Supporting DHCP, STATIC IP
- Supporting network bonding
- Supporting network bonding
- Power Source : Input : DC 24V, 800mA, Output : DC 24V, 500mA
- Weight : 1kg / 2.2lb
- Dimensions (W×H×D) : 210 × 44 × 180mm / 8.3 × 1.7 × 7.1in

Rear view



Remote PA Monitor

PM-N108

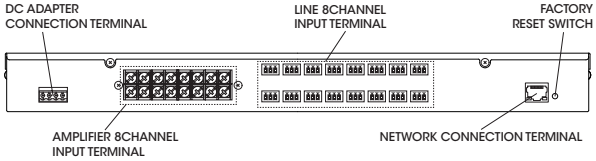


DC Network WEB

Features

- Monitoring Sound Source Through Network
- Line 8 channel, amp 8 channel audio input
- Receiving audio data through network
- Supporting 100/1000 MBPS
- Supporting DHCP, STATIC IP (DEFAULT, STATIC IP: 192.168.1.99)
- Power Source : DC 24V, 300mA
- Weight : 3.04kg / 6.7lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



NOTE

Network Streaming Audio Amplifier

PN-106/112

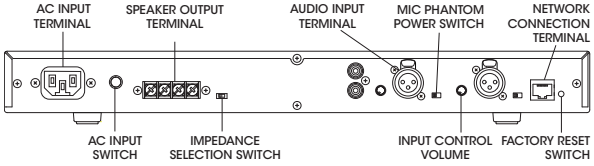


AC | Low High | 60 Watt | 120 Watt | Network | WEB | PC Control | Priority

Features

- Rated Output: 60W(PN-106), 120W(PN-112)
- TCP/IP Integral Amplifier
- MS-N300 Integrated Control, Web Browser GUI, Remote Power and Volume Control
- SMPS Power Circuit
- 3 Channels Input
- Set Output Priority
- Remote Power Control
- Power Source : AC 120-240V, 50/60Hz (supplied AC mains transformer depends on country requirements)
- Weight : 4.49kg / 9.89lb
- Dimensions (W×H×D) : 420 × 44 × 320 mm / 16.5 × 1.7 × 12.6 in

Rear view



Network Streaming Audio Amplifier

PN-224/236/248/260

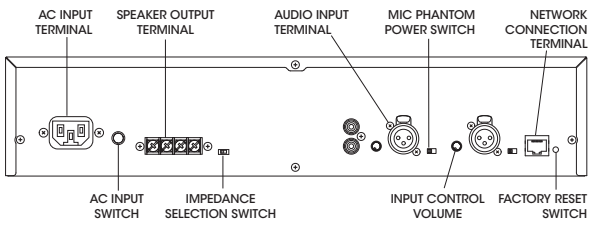


AC | Low High | 240 Watt | 360 Watt | 480 Watt | 600 Watt | Network | WEB | PC Control | Priority

Features

- Rated Output: 240W(PN-240), 360W(PN-236), 480W(PN-248), 600W(PN-260)
- TCP/IP Integral amplifier
- MS-N300 Integrated Control, Web Browser GUI, Remote Power and Volume Control
- SMPS Power Circuit
- 3 Channels Input
- Set Output Priority
- Remote Power Control
- Power Source
  PN-224/236 : AC 220-240V, 50/60Hz, 110W
  PN-248/260 : AC 120V-240V, 50/60Hz, 150W
  (supplied AC mains transformer depends on country requirements)
- Weight
  PN-224/236 : 5.02kg / 11.06lb, PN-248/260 : 5.23kg / 11.53lb
- Dimensions (W×H×D) : 420 × 88 × 320mm / 16.5 × 3.5 × 12.6in

Rear view



NOTE

8Bus digital PA system based on PC control

6000 SYSTEM



System Overview

Inter-M's Digital Public Address System has been met various needs of users such as government office, corporation, and education facility by realizing the stability of analog system and convenience of digital system at the same time with many years of experience.

Also, 6000 series provide various environment of controlling through PC operating program.

System Features

1. Digital-based development

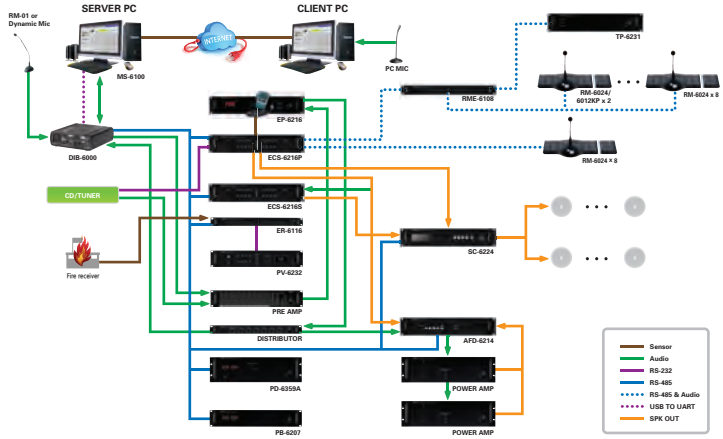
- Easy operation with PC operation program (GUI)
- PC interface product configuration supports various functions
- Real-time self-diagnosis and remote control by data communication between products
- Dual configuration of PC and equipment (broadcasting without PC)

2. Various market applicability

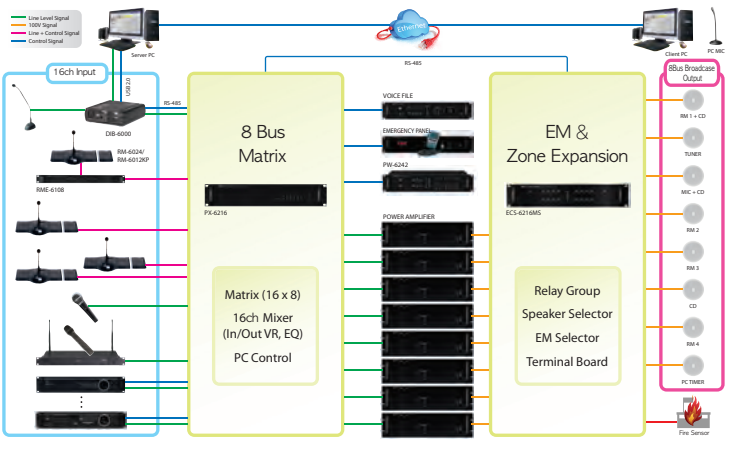
- General Analog public broadcasting such as 9000/600 System
- Coping with facilities built with the system
- Maximizing user's convenience with PC control function

CONTROLLER

Applications - 6000 SYSTEM 1BUS



Applications - 6000 SYSTEM 8BUS



6000 SYSTEM
Featured product

– 8Bus –

Audio Matrix
PX-6216 (8Bus)



Program Manual Controller
PMC-6208 (8Bus)



Emergency Combination System
ECS-6216MS (8Bus)



– 1Bus –

Emergency Combination System
ECS-6216P (1Bus)



Emergency Combination System
ECS-6216S (1Bus)



– Analog –

Matrix
PX-6116



Emergency Switcher
ES-6116



Speaker Selector
PS-6116



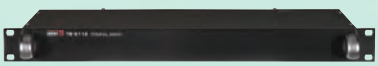
Remote Amplifier with Zone Selector
RM-6016



Relay Group
RG-6116



Terminal Board
TB-6116



Speaker Selector
PS-6116I



– Related Products –

Direct Box
DIB-6000



System Remote MIC Station
12Key MIC Station Keypad
RM-6024
RM-6012KP



Remote MIC Extender
RME-6108



Auto Blower
PF-6302



– Related Products –

Chime / Siren
PE-6103



Emergency Router
ER-6116



Line Monitor
LM-6228



Emergency Panel
EP-6216



Amp Fault Detector
AFD-6218



Monitor Panel
PM-6228



Program Timer
PW-6242B



Speaker Line Checker
SC-6224



Battery Charger
PB-6207



Multi Voice File
PV-6232A



Pre Amplifier
PP-6213



Power Distributor
PD-6359



Telephone Paging
TP-6231A



Pre Amplifier
PP-6214



Power Distributor
PD-6359A



Program Distributor
PO-6106



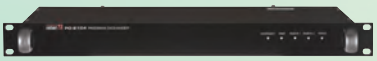
MIC Line Mixer
LM-6414



Auto Power Switcher
APS-6502



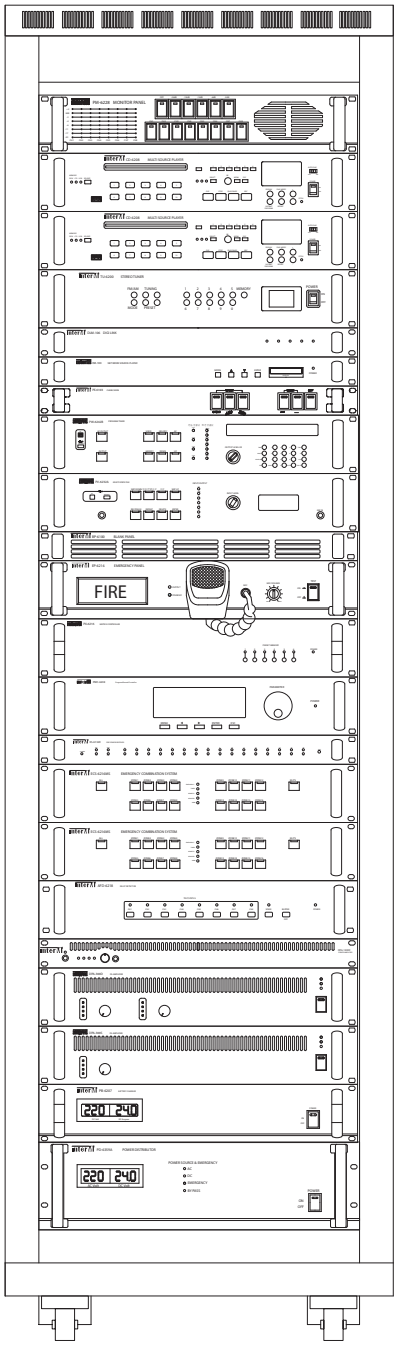
Program Exchanger
PG-6104



Rack Connection

6000 SYSTEM FRONT

PA-391D
PM-6228
CD-6208
CD-6208
TU-6200
DLM-106
ISR-100
PE-6103
PW-6242B
PV-6232A
EP-6216
PX-6216
PMC-6208
ES-6132R
ECS-6216MS
ECS-6216MS
AFD-6218
DPA-130DC
DPA-300D
DPA-300S
(SPARE)
PB-6207
PD-6359A



Audio Matrix Controller

PX-6216 (8Bus)

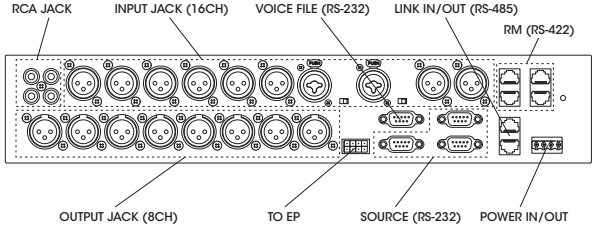


DC

Features

- DSP Based
- 7-Band EQ
- 6 presets and controls
- 4 Remote Mic Ports Expandable up to 32 Remote Paging Stations
- 8 Mic / Line Inputs (2 with Phantom Power)
- 2 Unbalanced Line Inputs
- External source control
- 8 balanced audio outputs
- Power Source : DC 24V
- Weight : 4.3kg / 9.5lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Program Manual Controller

PMC-6208 (8Bus)

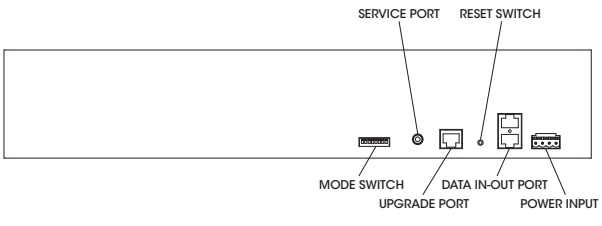


DC

Features

- Manual controller for PX-6216 (6000 matrix system)
- GRAPHIC EQ
  7 band EQ for each of the 8 outputs channels
- PC mode, PMC mode, AUTO mode
  User selectable control mode
- Input volume setting and control
  Independent adjustable volume control for 16 inputs channels
- Output volume setting and control
  Independent adjustable volume for 8 outputs channels
- Audio IN/OUT control
  Allows to set and control the INPUT/OUTPUT matrix and mix the signal up to 4 input channels
- Power Source : DC 24V
- Weight : 4kg / 8.8lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Emergency Combination System

ECS-6216MS (8Bus)

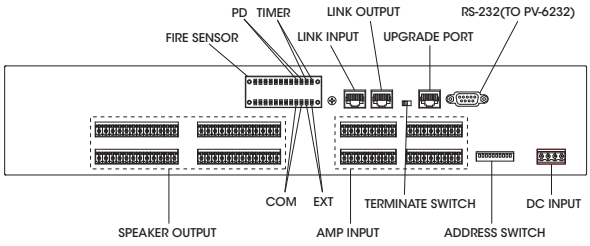


DC

Features

- Allows the addition of 16 output zones to the System 6000
- Up to 9 units can be added giving the system up to 160 output zone capacity
- Each unit also offers 16CH GPI sensor input for messaging, event and scenario triggering
- Power Source : DC 24V
- Weight : 4.3kg / 9.5lb
- Dimension (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



P.A Management Software

MS-6800 (8Bus)



Features

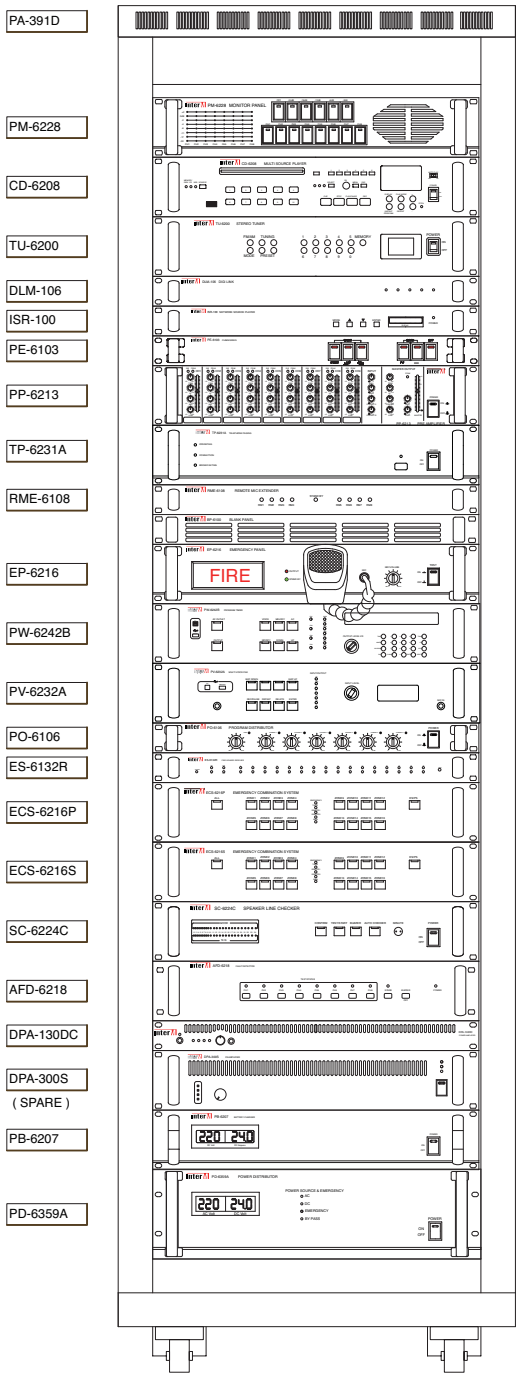
- 6000 System Operation & Management software (1CH / Multi CH)
- MP 3 Player (Scheduling, BGM)
- Controlling a sound device (CD, Tuner, Cassette)
- Contolling a overall Output & Monitoring a broadcasting
- Broadcasting with a PC MIC
- Log Function (Text, Audio Recording & Play)
- Using a sound source (MP3) in the PC for playing BGM and announcement

NOTE

NOTE

Rack Connection

6000 SYSTEM FRONT



Emergency Combination System

ECS-6216P (1Bus)

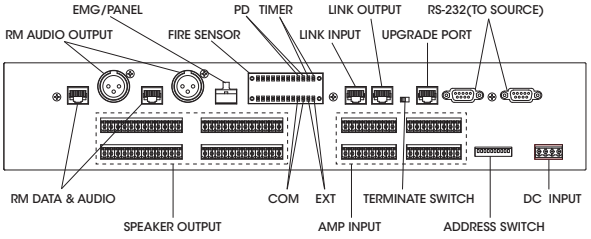


DC

Features

- Main primary output zone module that allows the addition of 16 output zone to the System 6000
- Up to 160 outputs zone capacity is possible with the addition of up to 9 additional ECS-6216S
- Each unit also offers 16CH GPI sensor input for messaging, event and scenario triggering
- Power Source : DC 24V
- Weight : 4.3kg / 9.5lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Emergency Combination System

ECS-6216S (1Bus)

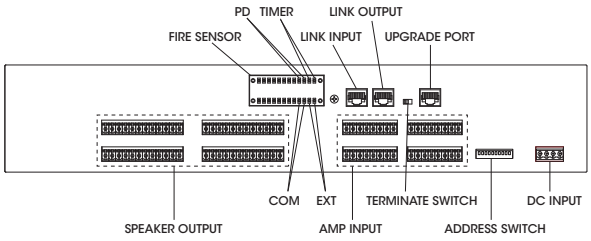


DC

Features

- Output Slave Unit that allows the addition of 16 output zones to the single bus system 6000
- Up to 9 units can be added to the ECS-6216P, giving the system up to 160 output zone capacity
- Each unit also offers 16CH GPI sensor input for messaging, event and scenario triggering
- Power Source : DC 24V
- Weight : 4.3kg / 9.5lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



P.A Management Software

MS-6100 (1Bus)



Features

- 6000 System Operation & Management software (1CH / Multi CH)
- MP 3 Player (Scheduling, BGM)
- Controlling a sound device (CD, Tuner, Cassette)
- Contolling a overall Output & Monitoring a broadcasting
- Broadcasting with a PC MIC
- Log Function (Text, Audio Recording & Play)
- Using a sound source (MP3) in the PC for playing BGM and announcement

Direct Box

DIB-6000

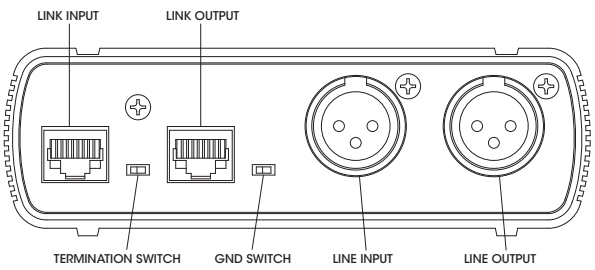


DC

Features

- PC Interface unit for ECS-6216P, ECS-6216S and PX-6216 /ECS-6216MS
- Converts unbalanced audio from PC to balanced audio for system connection
- System USB PC controls. Converts USB to RS-485
- Balanced Microphone input with volume control can be used with RM-01 Microphone for paging from PC control location
- Priority Function (BGM/MIC)
- Record Level Setting
- Power Source : USB DC 5V
- Weight : 0.74kg / 1.7lb
- Dimensions (W×H×D) : 140 × 43 × 140mm / 5.5 × 1.7 × 5.5in

Rear view



System Remote MIC Station / 12Key MIC Station Keypad

RM-6024/6012KP

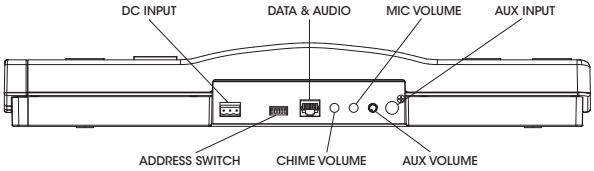


DC

Features

- Zone Macro Function
- 24 Control Keys
- "All Call" Button
- Chime Function
- External Auxiliary Input
- Output Level Meter
- Easy Label Area
- Volume Control
- RS-485 Communications
- Optional Expansion Keypad RM-6012KP
- Easy Cat5e Connectivity
- Expansion key pad for RM-6024
- 12 Keys Each
- 2 can be added to the RM-6024 for complete system control
- Power Source : DC 24V
- Weight : 1.2kg / 2.61lb
- Dimensions (W×H×D) : 456 × 65 × 200mm / 17.9 × 2.5 × 7.9in

Rear view



Remote MIC Extender

RME-6108

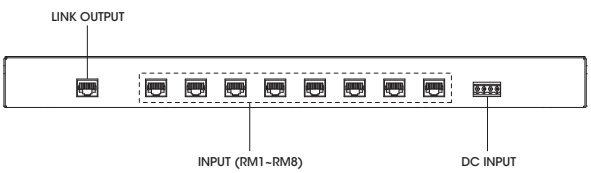


DC

Features

- 8 paging station expansion ports
- Can connect up to 8 RM-6024 Microphone paging stations
- Channel Priority set via Windows PC Software
- Up to 4 units can be added to the PX-6216
- Adds up to 32 microphone paging stations
- RS-485 communication
- Long-distance transmitting to remote mic is possible [Max.1KM]
- Power Source : DC 24V
- Weight : 2.8kg / 6.17lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



System Remote Mic Station

RM-6800

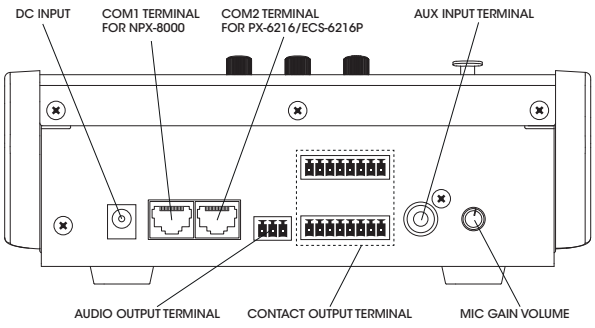


DC

Features

- NPX System, 6000 System mode setting
  (RM-6024, NRM-8000, RM-6016 MODE)
  use the gooseneck microphone to broadcast paging in each area
- select the broadcasting area simply by using the 0~9 key and the All button
- set the operation mode by the Talk button and the chime button
- check and set the status of the device through the 2.43 INCH OLED display
- OUTPUT LEVEL METER
- check the current output in real time through the monitor speakers
- INPUT/OUTPUT adjustment volume
- Power Source :
  DC 24V (NRM-8000A MODE, DC 40V), MAX 10W
- Weight : 1.29kg / 2.84lb
- Dimensions (W×H×D) : 200 x 73 x 206mm / 7.8 x 2.8 x 8.1in

Rear view



Auto Blower

PF-6302A

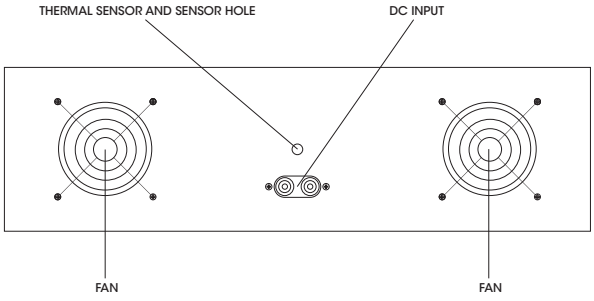


DC

Features

- Protecting the internal heat with auto fan cooling
- Using Thermo-Sensitive Device
- Usage : OFF, MANUAL, AUTOMATIC
- Less noise by using 2 Quiet Fan
- Power Source : DC 24V
- Weight : 0.7kg/1.54lb
- Dimensions (W×H×D) : 482 x 132 x 28mm/19 x 5.2 x 1.1in

Rear view



Emergency Panel

EP-6216

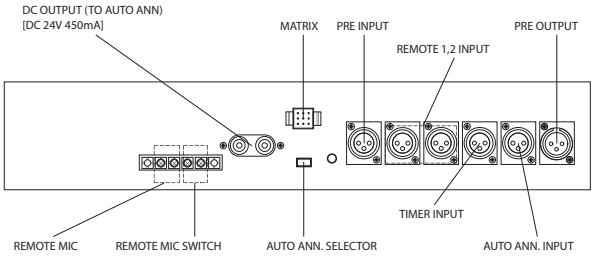


DC

Features

- Fire Alarm - Connect to a fire sensor for a fully functional fire alarm
- Auto Operating Function - Alarm will sound automatically on alternate floors
- Auto Announcement - Automatic announcements during fire alarm operation
- Test Function - Use the test function for system tests or to conduct emergency drills
- Manual Overide Broadcasting (Voice & Siren),
- Timer auto broadcasting : Siren & Voice
- Inspection & Test switch
- Inputs for Voice Files and Auxilary remote devices
- Auto Fire Alarm
- Power Source : DC 24V
- Weight : 4kg / 8.8lb
- Dimension (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Telephone Paging

TP-6231A

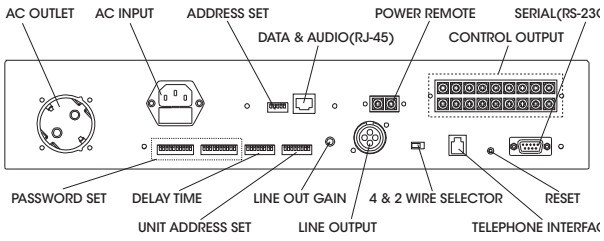


AC

Features

- Broadcasting with regular phone, cell phone, public phone as connected via regular telephone line (office line) or call director telephone
  TP6231A: maximum 48 zones
- Automatically terminating PAGING Broadcast and phone connection by detecting disconnected call
- 2 Lines: same as regular phone
  4 Lines: INTERFACE method with exchanger in extension (2W E&M)
- SECURITY, DELAY TIME setting
- END signal detection function
- Performing the voice guidance service function for the convenience, and directly recording the broadcast connection message (maximum 20 sec)
- Control broadcasting area through serial communication terminal
- Setting User password
- Selecting broadcasting operation mode according to user's purpose
- Power Source : AC 100-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Weight: 4kg / 8.8lb
- Dimensions (W×H×D) : 482 x 88 x 280mm / 19 x 3.5 x 11in

Rear view



Program Distributor

PO-6106

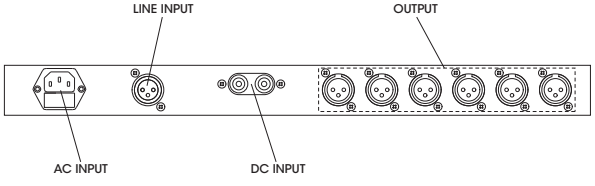


AC DC

Features

- 1 XLR input, 6 XLR outputs
- Level control for each input / output
- LED display for each input / output
- Power Source : AC 100-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Weight : 4kg / 8.8lb
- Dimensions (W×H×D) : 482×44×280mm / 19 × 1.7 × 11in

Rear view



Program Exchanger

PG-6104

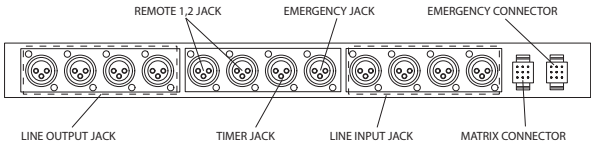


DC

Features

- Automatic Emergency Interface : Remote, Timer, EM Broadcasting
- Input signal priority
- 4 Line inputs & 4 Line outputs
- Display input signal LED
- Power Source : DC 24V
- Weight : 5kg / 11lb
- Dimension (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Emergency Router

ER-6116

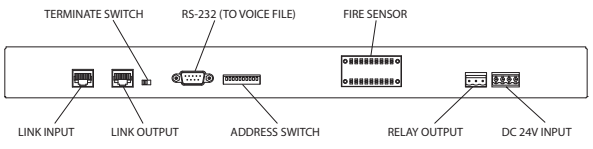


DC

Features

- Configurable and controlled by PC using the MS-6100 Software
- Control up to 99 voice messages using the PV-6232A
- 16 input stringers/ 16 scenarios
- Scalable up to 160 zones and 160 scenarios
- ECS system Interface RS-485 for control unit
- Button BYPASS for manual control
- Buzzer on/off
- Relay output for external device control
- Power Consumption : 100mA
- Power Source : DC 24V
- Weight : 2.8kg / 6.17lb
- Dimension (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Amplifier Fault Detector

AFD-6218

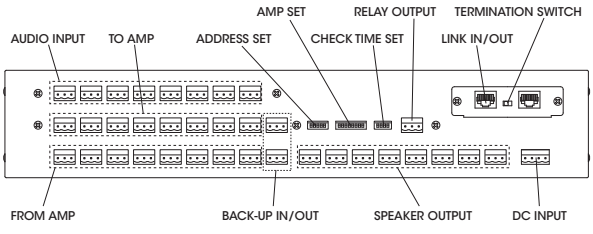


DC

Features

- Automatic check
  Check the status of amp connected to each channel automatically according to the time-set
- Display Amp Status
  Display the status of amp connected to each channel by LED
- Automatic change
  Channel which fault occurs when checking out the amp will be switched to spare amp automatically
- Check Time setup
  You can set up 5 different time intervals for automatic self check
- Power Source : DC 24V
- Weight : 4kg / 8.8lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Speaker Line Checker

SC-6224

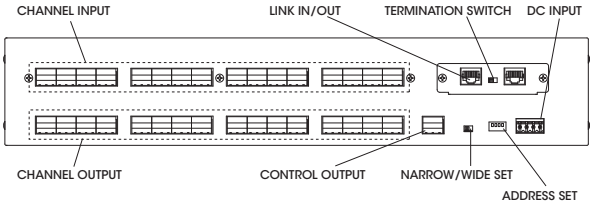


DC

Features

- Check the status of each speaker line with LED
- Setting the test time interval and automatic test
  The test time intervals can be set from 5 to 200 minutes by user request
- Use of high frequency test signal
  It uses the high frequency test signal when checking out the speaker line, so it may be inaudible to listener
- Speaker impedance measuring error range setting
  Speaker impedance measuring error range can be set as 10% or 20%
- Power Source : DC 24V
- Weight : 4.4kg / 9.7lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Pre Amplifier

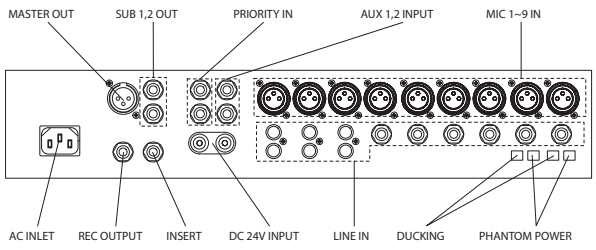
PP-6213



Features

- Input & Output :
  - 9CH Input & 1CH master output
  - 2CH Sub output
  - 1CH Recording output (No volumn control)
- Built in 2CH input priority
- 3 Band equalizer (HIGH, MID, LOW)
- Ducking Function (CH 1,CH 2)
- Power Source : AC 100-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Weight : 4.8kg / 10.6lb
- Dimension (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Pre Amplifier

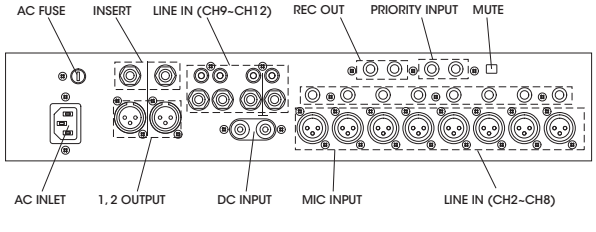
PP-6214



Features

- 8 Mono input & stereo input for CD, Tuner, Deck
- Mute Func (CH1 & Priority 1,2)
- REC OUT terminal
- 3 Band Equalizer for main output
- Phantom power for condenser Mic (+18VDC)
- Balanced circuit for preventing the noise
- Power Source : AC 100-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Weight : 5kg / 11lb
- Dimension (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Line Monitor

LM-6228

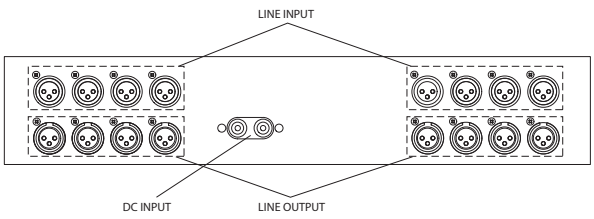


DC

Features

- LED Level Meter for monitoring the level of power AMP input
- Monitoring 8 mixer out, 2 group simultaneous monitoring
- Adjustable volume control
- Built-in high quality speaker for intelligible monitoring
- Power Source : DC 24V
- Weight : 7.5kg / 16.5lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Monitor Panel

PM-6228

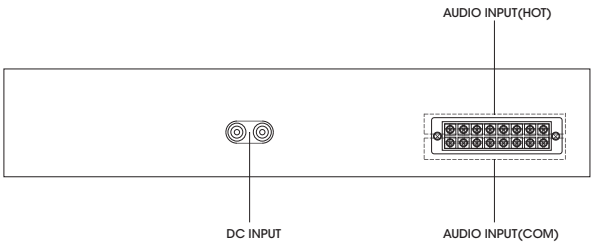


DC

Features

- Output level LED Display (3 colors)
- Channel Select Switch (Select AMP, Monitoring Output Level)
- Display the 8 channels of AMP output
- High Quality Monitoring Speaker
- Speaker Volumn Control
- Power Source : DC 24V
- Weight : 3.5kg / 7.7lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Battery Charger

PB-6207

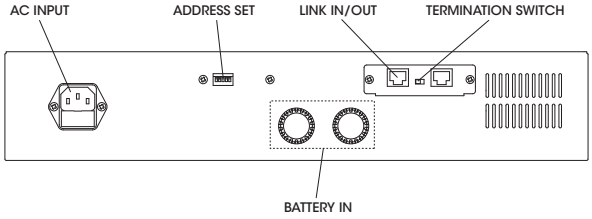


AC

Features

- Automatic charging
  Up to Max. 3A will becharged, and if it is closed to full charging voltage (26.4V), current will be decreased to 10~20mA to maintain the charging status when it is fullycharged
- Volt/ampere meter
  Voltage and current of battery will bechecked through front LED display
- Monitoring charging status
  The status of charging voltage and current can be monitored through Windows programs
- Power Source : AC 100-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Weight : 6kg / 13.2lb
- Dimensions (W×H×D) : 482 × 88 × 280mm / 19 × 3.5 × 11in

Rear view



Power Distributor

PD-6359

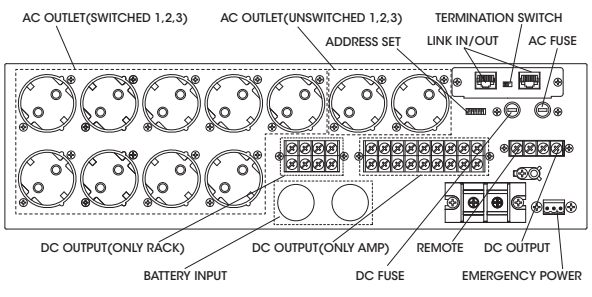


AC

Features

- Rack system power control
  It controls the power of the rack system
- AC outlet terminal
  It consists of UNSWITCHED 1 group and SWITCHED 3 group, and in case of SWITCHED 3, it will be on/off for every 2 seconds with sequential power
- Supply emergency power
  It can supply the battery power to the unswitched power output terminal, so it will be switched to emergency power in case of black out to supply the DC power to the system
- Monitoring of voltage supplying status
  The status of service voltage can be monitored through Windows program
- Remote control
  Power can be on/off from Windows program, and it can be controlled through the contact of remote terminal without PC
- AC/DC Volt meter
  The status of service voltage can be monitored through front LED display consisting
- Power Source : AC 100-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Weight : 10.5kg / 23.1lb
- Dimensions (W×H×D) : 482 × 132 × 280mm / 19 × 5.2 × 11in

Rear view



Speaker Selector

PS-6116

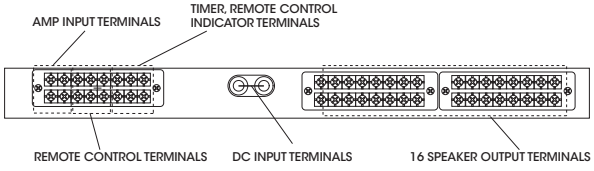


DC

Features

- **Analog**
- Speaker line control by a relay operation with the connection of PX-6116
- Speaker line control for two-wire and three-wire type broadcasting
- Broadcasting status indicators(LED)
- Power Source : DC 24V
- Weight : 3.3kg / 7.3lb
- Dimensions (W×H×D) : 482 x 44 x 280mm / 19 × 1.7 × 11in

Rear view



Remote Amplifier with Zone Selector

RM-6016

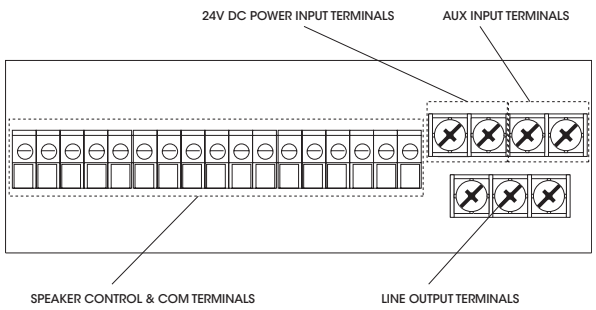


DC

Features

- **Analog**
- Speaker line control function (16CH)
- Pre-announcement broadcast sound function, 4-tone chime
- External signal input, Output level LED, Talk control switch
- Power Source: DC 24V
- MIC: CM-6016
- Weight : 1.2kg / 2.65lb (Except microphone)
- Dimensions (W×H×D) : 245 x 60 x 205mm / 9.65 x 2.36 x 8.07in

Connector Section



Auto Power Switcher

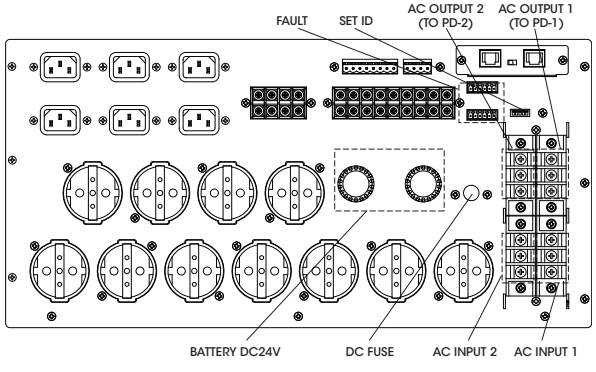
APS-6502



Features

- Power redundancy
  APS-6502 is installed with 2 units of PD-6359 as a main and sub unit and helps to support a power back up as a power redundancy
- Automatic switch of AC Main Power
  When AC main power has a problem, it will automatically switch to AC sub power as a main power.
- Automatic switch when detects a fault of PD-6359
  When main PD-6359 unit has a problem, It will automatically switch to sub PD-6359 unit as a main unit.
- Automatic switch to DC power When AC power failed.
  If all of input power 1 and 2 has been failed, it will automatically switch to 24V DC power mode.
- Power Source : AC 220-230V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Weight : 9.5kg / 20.9lb
- Dimensions (W×H×D) : 482 × 220 × 280mm / 19 × 8.7 × 11in

Rear view



Emergency Announcement & Speaker Line checking Unit

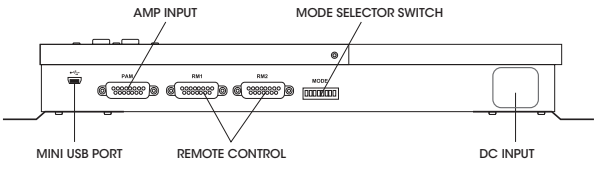
SC-05EM



Features

- Optimal solution for creating inexpensive but functional EVAS
- 5 zones of broadcast
- Different scenarios of evacuation
- Built-in module for speaker line check
- Manual and automatic operating modes
- Connection to remote microphone station RM-05A
- Relay Module
- Indication of operation mode and speaker line state
- Additional “dry contacts”
- Power Source : DC 24V
- Weight : 2kg / 4.4lb
- Dimensions (W×H×D) : 388 × 185 × 54mm / 15.3 × 7.3 × 2.1in

Rear view



CONTROLLER

Audio Matrix System

Audio Matrix Controller

PX-8000

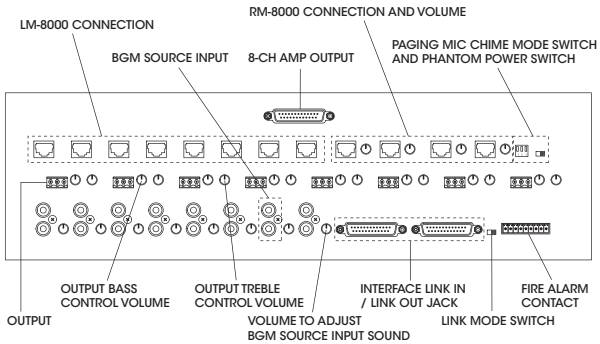


AC

Features

- 8 BGM Inputs and 8 Zone Outputs
- Can be controlled by Front Panel or Zone Local Ports (1 per Zone)
- Link in and link out connectors for daisy-linking mutliple PX-8000 for Unlimited Expansion
- UP to 4 Remote Microphones
- Trigger contact (8) for remote message playback
- PAGING microphone input with Phantom and Voice Control Function
- 3 Steps chime
- DRP Recording and Playback (60 seconds)
- ZONE Tone Control (Bass/Treble)
- Input / Output Volume Control
- BGM Audio Monitoring Via Built-in Speaker
- CAT-5 Cable Easy Installation (300m) Long-Distance
- 8-Channel Balanced Output Terminals
- Power Source : AC 100-240V, 50/60Hz (supplied AC mains transformer depends on country requirements)
- Weight : 7.5kg / 16lb
- Dimensions (W×H×D) : 482 × 132 × 380mm / 19 × 5.2 × 15in

Rear view



Remote MIC Station

RM-8000



DC

Features

- Convenient installation with AUTO ID function
- Selection of various chime broadcasting for MIC (PRE/POST)
- Priority broadcasting options (RM1>RM2>RM3>RM4)
- Output audio level meter- internal monitor speaker
- RS-422 Communication for long distance
- Power Source : DC 24V (Supplied from PX-8000)
- Weight : 1.5kg / 3.2lb
- Dimensions (W×H×D) : 200 × 70 × 206mm / 7.9 × 2.8 × 8.1in

Remote Control with Audio In

LM-8000



DC

Features

- Convenient Installation with AUTO ID Function
- RS-422 Communication for Long Distance
- Remote Control For Zone Volume and Selection of BGM
- Independent Local Mic and BGM Broadcasting
- Power Source : DC 24V
- Weight : 130g / 0.28lb
- Dimensions (W×H×D) : 70 × 114 × 52mm / 2.8 × 4.5 × 2in

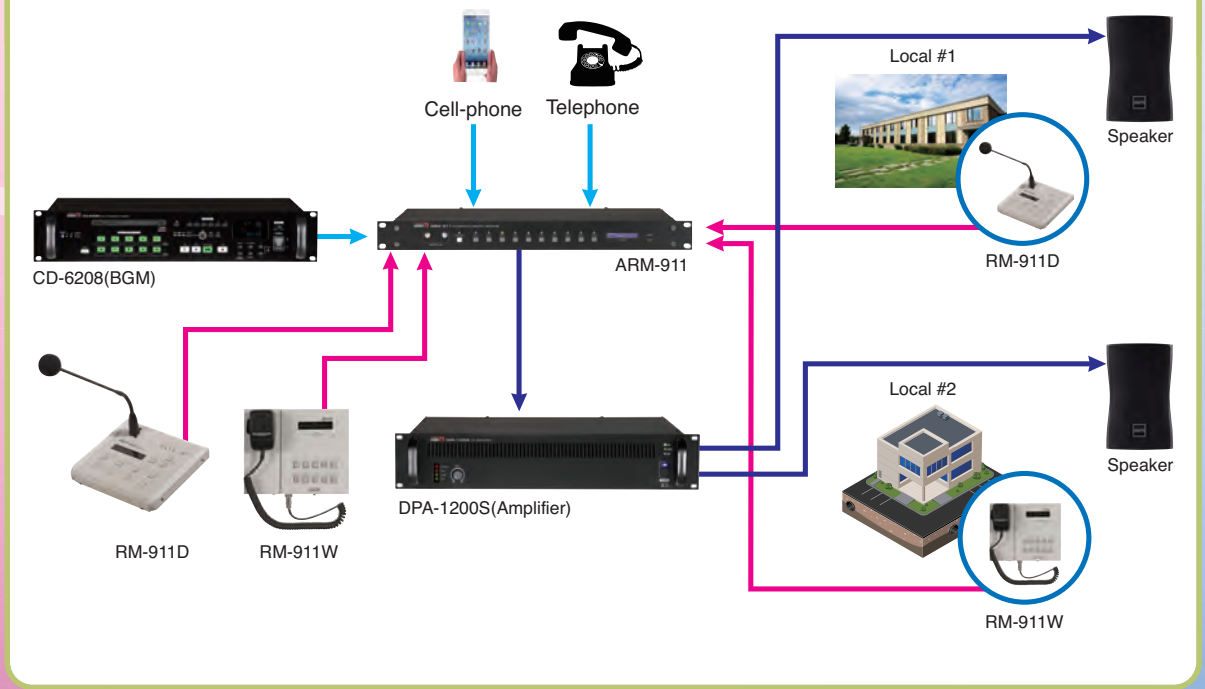
NOTE

ARM SYSTEM



CONTROLLER

Applications



Automatic Remote Message

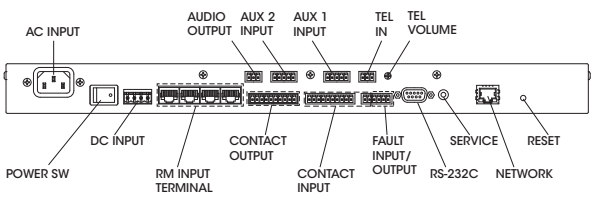
ARM-911A



Features

- 4 tracks of Emergency broadcasting sound source in accordance Framework Act on Fire Services and Civil Defense Alert Regulations
- Instant broadcasting via 10 frontal panel buttons
- Broadcast message through 10CH contact closure input on rear panel
- Emergency broadcasting via mobile and wire telephone
- Voice broadcasting and remote control using remote microphone (RM-911D, RM-911W)
- Time signal broadcasting setting
- PHANTOM power available
- Input DC 24V emergency power
- FAULT INPUT / OUTPUT
- 10CH emergency message broadcast, time and date setting, priority of input source
- Power Consumption: 16W
- Power Source : AC 100-240V, 50/60Hz, DC 24V (supplied AC mains transformer depends on country requirements)
- Weight : 3.5kg / 7.7lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Remote Microphone

RM-911D



Features

- Used for Live Instant Voice Messaging
- 10 Buttons to Activate Recorded Messages
- 4 Digit Security Code to Prevent Unauthorized Use
- Power Source : DC 24V (From ARM-911A)
- Weight : 1.37kg / 3lb
- Dimensions (W×H×D) : 200 × 67 × 206mm / 3.9 × 2.6 × 8.1in

Remote Microphone

RM-911W



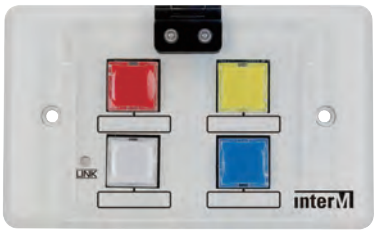
DC PC Control

Features

- Used for Live Instant Voice Messaging
- 10 Buttons to Activate Recorded Messages
- 4 Digit Security Code to Prevent Unauthorized Use
- Power Source : DC 24V (From ARM-911A)
- Weight : 1.7kg / 3.7lb
- Dimensions (W×H×D) : 261 × 188 × 46mm / 10.3 × 7.4 × 1.8in

Remote Microphone

LM-911



DC

Features

- Wall-mounted remote control device connected with ARM-911A and CAT5E cable
- Remote playback - No.1 to 4 out of 10 sound sources of ARM-911A controlling with 4 buttons on the front (Red - No.1, Yellow -No.2, White - No.3, Blue - No.4)
- Maximum 500m / 0.31mile connection with ARM-911A
- Preventing malfunction of buttons with cover
- Power Source : DC 24V
- Weight : 123.3g / 0.27lb
- Dimensions (W×H×D) : 114 x 70 x 50mm / 4.5 x 2.7 x 1.9in

CONTROLLER
Processor

Digital Speaker Processor

DSP-48

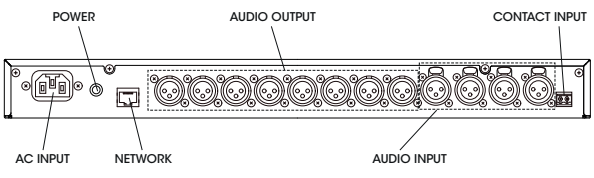


AC DSP

Features

- XLR balanced audio inputs and outputs with 4 In / 8 Out
- DSP features (Delay, 8-band PEQ, 31-band GEQ, Crossover, Compressor, Limiter, Matrix, Mute, and more)
- Displaying input and output level meters
- Device control via front interface (OLED and control buttons)
- Preset and device lock available
- Remote control by GUI is available
- Contact input via 2-pin Euro terminal block
- Device control through the Web GUI
- Power Source : AC 120-240V, 50/60Hz (supplied AC mains transformer depends on country requirements)
- Weight : 3.5kg / 7.71lb
- Dimensions (W×H×D) : 482 x 44 x 318mm / 19 x 1.7 x 12.5in

Rear view



Sound Exchanger

SEG-1404

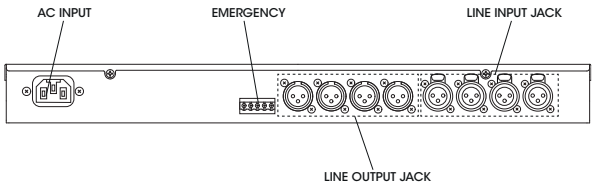


AC

Features

- Sound exchanger with professional-quality audio
- Automatic broadcast switching
- Broadcasting indicators for each channel
- Gold-plated PCB for better audio quality
- High-quality Neutrik® connectors
- Euroblock emergency audio input
- Power source : AC 230-240V, 60Hz (supplied AC mains transformer depends on country requirements)
- Power consumption : 5W
- Weight : 2.9kg / 6.39lb
- Dimensions (W×H×D) : 482 × 44 × 283mm / 19 × 1.7× 11.1in

Rear view



NOTE

CONTROLLER
Audio/Data Transmission

Audio Over Ethernet

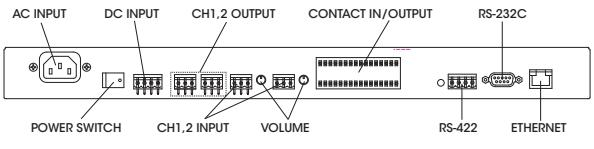
AOE-N300



Features

- Audio transmit-receive via ETHERNET (2CH)
- DATA transmission-reception via ETHERNET
  Contact: 8CH for each input/output
  Communication : Serial communication (RS-232C, RS-422)
  (one-way communication 1:20, two-way communication 1:1)
- Device scalability
  Multicast 1:70
  Unicast 1:20
- SETUP SOFTWARE
  - device setting by web GUI
    (PC, tablet PC, mobile web page supported)
- Support DHCP
- FACTORY SET available to reset defalut setting
- Synchronization through contacts and audio delay setting
- Possible virtual contact output through network
- Interlocking with MS-N300, which enables integrated control of all devices connected to the network and operation of the entire system (requires NCS-1000 device)
- Power Source : AC 220V, 60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Power consumption : Less than 15W
- Weight : 3.02kg / 6.65lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



2/8 Channel Audio Transmitter/Receiver

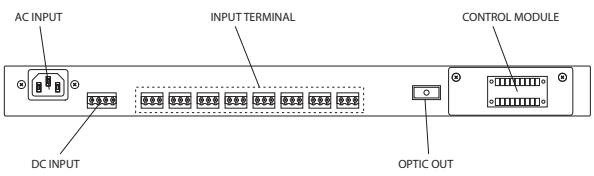
FTA/FRA-108S



Features

- FTA-108S : 8CH fiber optic transmitter
- FRA-108S : 8CH fiber optic receiver
- 24Bit, 48kHz high quality audio
- PAD switch for controlling the input level
- 8CH contact & serial Data (RS-232/422) with communication Module
- Audio Transmission : Fiber optic in / out (Single Mode : MAX 15km)
- Power Source : AC 100-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Weight : 4.2kg / 9.3lb
- Dimensions (W×H×D) : 482 × 44 × 280mm / 19 × 1.7 × 11in

Rear view



Control Transmitter/Receiver Module

CT/CR-600ECS



DC

Features

- Option module for adding ITX/IRX SERIES, FTA/FRA-108S control signal transmit function
- Long distance transmit among 6000 systems
- Easy installation with installation slot in the set
- Applied Equipment
  CT-600ECS : FTA-108S, ITX-108, ITX-102
  CR-600ECS : FRA-108S, IRX-108, IRX-102
- Power Source : DC 5V, DC 24V (From main equipment)
- Weight : 250g / 0.55lb
- Dimensions (W×H×D) : 85 × 35 × 135mm / 11.8 × 1.7 × 9in

NOTE

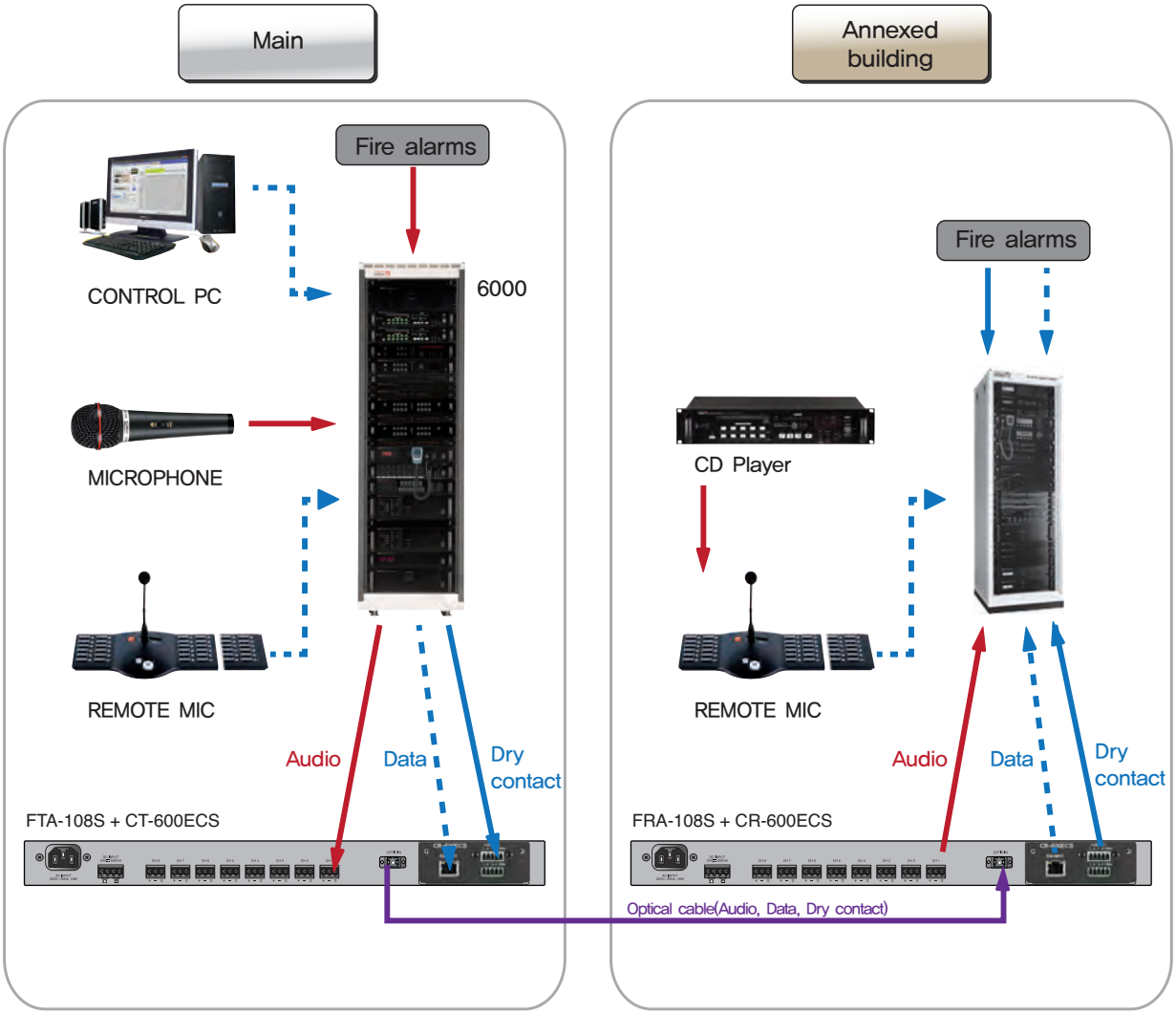
APPLICATIONS FTA/FRA-108S

CT-600ECS / CR-600ECS (Optional Module)

- Optional Module for transmission/reception of communication signal (RS-485) for 6000 system (1bus, 8bus) and eight programmable trigger by FTA/FRA-108S
- Support equipment
  - CT-600ECS(Transmission) : FTA-108S
  - CR-600ECS(Reception) : FRA-108S







NOTE

AMPLIFIER

Table Type Amplifier

Mixing Amplifier

PA-212/224

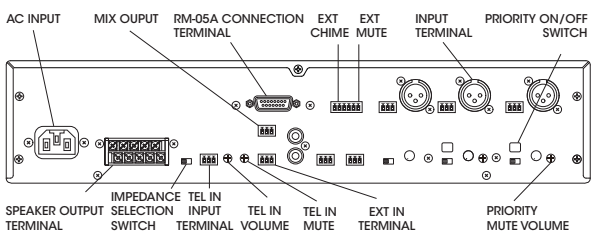


AC | USB | Low High | 120 Watt | 240 Watt | Priority

Features

- Rated Output: PA-212 - 120W, PA-224 - 240W
- 100V/70V Line, Low-Z Output Support
- Easy Audio Input via USB
- Local Selection Broadcast with 5 Speaker Select Switches
- Remote MIC Broadcasting via RM-05A
- Various Input of 6 channels and TEL IN: MIC, Line, RCA, 3.5Φ PHONE JACK
- Priority Broadcasting for Emergency and User Convenience (TEL IN > RM, INPUT 1~2 > INPUT 3~6)
- Adjustable Tone according to Usage Environment(BASS/TREBLE)
- Chime, Siren, EXT IN and MIX OUT
- Phantom Power
- Power Source: AC 220-240V, 50/60Hz (supplied AC mains transformer depends on country requirements)
- Power Consumption : PA-212 : 60W, PA-224 : 90W
- Weight : PA-212 : 7.32kg, PA-224 : 9.75kg
- Dimensions (W×H×D) : 420 x 88 x 318.7mm / 16.5 x 3.5 x 12.5in

Rear view



Mixing Amplifier

PM-236/248/260

RoHS COMPLIANT CE

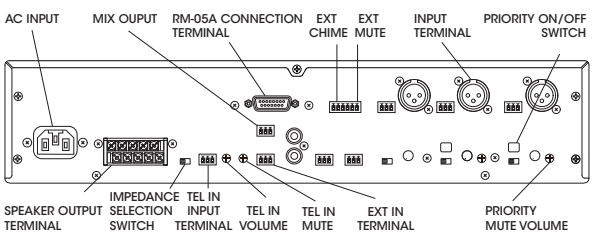


AC | USB | Low High | 360 Watt | 480 Watt | 600 Watt | Priority

Features

- Rated Output: PM-236 - 360W, PM-248 - 480W, PM-260 - 600W
- 100V/70V Line, Low-Z Output Support
- Easy Audio Input via USB
- Local Selection Broadcast with 5 Speaker Select Switches
- Remote MIC Broadcasting via RM-05A
- Various Input of 6 channels and TEL IN: MIC, Line, RCA, 3.5Φ PHONE JACK
- Priority Broadcasting for Emergency and User Convenience (TEL IN > RM, INPUT 1~2 > INPUT 3~6)
- Adjustable Tone according to Usage Environment(BASS/TREBLE)
- Chime, Siren, EXT IN and MIX OUT
- Phantom Power
- Power Source: PM-236 : AC 220-240V, 50/60Hz, PM-248/260 : AC 120-240V, 50/60Hz (supplied AC mains transformer depends on country requirements)
- Power Consumption : PA-236 : 115W, PA-248 : 125W, PA-260 : 145W
- Weight : PA-236 : 5.10kg / 11.2lb, PA-248/260 : 5.27kg / 11.6lb
- Dimensions (W×H×D) : 420 x 88 x 318.7mm / 16.5 x 3.5 x 12.5in

Rear view



Public Address Amplifier

PAM-312/324/336/348

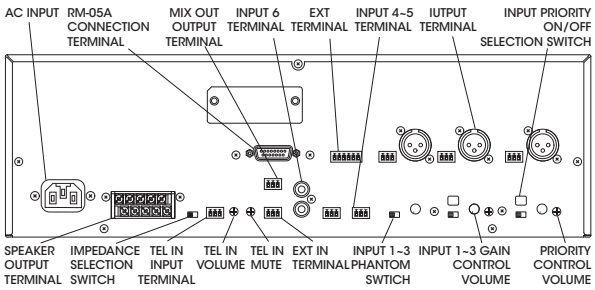


AC | 70V 100V | 5 Zone | 120 Watt | 240 Watt | 360 Watt | 480 Watt | Class-D | Priority

Features

- Various rated output lineup : PAM-312 - 120W, PAM-324 - 240W, PAM-336 - 360W, PAM-348 - 480W
- Class-D amplification circuitry with SMPS power supply
- It supports various input types including 3 mic/lines, 3 lines, a stereo input, and a tel in
- Two bays for dedicated PAM modules : PAM-FMT, PAM-CDU, PAM-SDU, PAM-BTU
- Tone control (Bass/Treble)
- 5 Zone speaker selectors
- Prioritized broadcasting : EM > TEL IN > INPUT 1/RM-05A, INPUT 2, CHIME > INPUT 3/4/5/6, EXT IN, PAM Module
- Selectable priority between INPUT 1 and 2
- Phantom power for MIC inputs
- RM-05A remote microphone station (Sold separately)
- Chime, EXT-IN, MIX-OUT
- Power source : AC 120V, 60Hz, AC 220-240V, 50/60Hz (supplied AC mains transformer depends on country requirements)
- Power consumption (1/8W output) : PAM-312 : 50W, PAM-324 : 85W, PAM-336 : 97W, PAM-348 : 115W
- Weight : PAM-312 : 7.26kg / 16lb, PAM-324 : 6.88kg / 15.16lb, PAM-336 : 6.93kg / 15.27lb, PAM-348 : 7.16kg / 15.78lb
- Dimensions (W×H×D) : 420 x 132 x 358mm / 16.5 x 5.2 x 14in

Rear view



Remote Mic Station

RM-05A



DC

Features

- Dedicated remote microphone station with zone control for PA-206/212/224, PM-236/248/260, PAM-312/324/336/348/340A/480A/510/520, PA-60A/120A/240A
- Dynamic gooseneck microphone
- Pre-announcement chime
- LED output level indication
- Power Source : DC 24V (D-Sub connector)
- Weight : 800g / 1.76lb (without Microphone)
- Dimensions (W×H×D) : 194 × 60 × 205mm / 7.6 × 2.3 × 8in

CD, MP3, Tuner Module

PAM-MPM4A



USB CD Tuner SD

Features

- PAM series module
- Slide-in installation (Only with PAM-312/324/336/348)
- The PAM-510/520/340A/480A systems are not sliding mounting types. Open the top cover for this model and connect it with the inner connector
- It cannot be used in No.1 bay of PAM-120A.
- CD / USB / DRP (Digital Record and Playback : SD Memory)
- CD+USB, DRP (SD Memory) Potable FM TUNER
- CD Long-Life function
- CD COPY function (CD → USB or DRP)
- USB hosting function (USB ↔ DRP)
- FM 40 Memories
- Power Source : DC 17V, DC 24V
- Weight : 0.95kg / 2.1lb
- Dimensions (W×H×D) : 184 × 55 × 182mm / 7.2 × 2.2 × 7.2in

SD/USB Module

PAM-SDU



DC SD USB

Features

- Dedicated input module for PAM series amplifiers
- Slide-in installation (Only with PAM-312/324/336/348)
- The PAM-510/520/340A/480A systems are not sliding mounting types. Open the top cover for this model and connect it with the inner connector
- It cannot be used in No.1 bay of PAM-120A.
- SD card and USB player
- SD card slot cover to prevent unintended ejection
- OLED display
- Supported codecs; MP3, WMA
- Dedicated volume control
- Operating power; DC 24V (from PAM series amplifier)
- Weight : 0.47kg / 1.03lb
- Dimensions (W×H×D) : 184 x 55 x 182mm, 7.2 x 2.2 x 7.2in

Bluetooth/USB Module

PAM-BTU



DC USB

Features

- Dedicated input module for PAM series amplifiers
- Slide-in installation (Only with PAM-312/324/336/348)
- The PAM-510/520/340A/480A systems are not sliding mounting types. Open the top cover for this model and connect it with the inner connector
- It cannot be used in No.1 bay of PAM-120A.
- Bluetooth wireless audio and USB player
- OLED display
- Supported codecs for USB; MP3, WMA
- AVRCP supported to control the Bluetooth audio remotely
- Dedicated volume control
- Operating power; DC 24V (from PAM series amplifier)
- Dimensions (W×H×D) : 184 x 55 x 182mm, 7.2 x 2.2 x 7.2in

Public Address Amplifier

MA-106

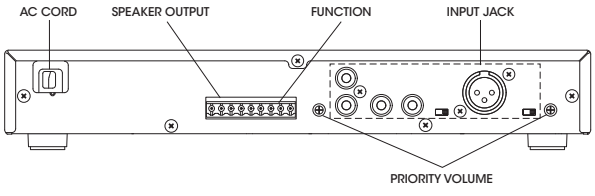


AC Low High 60 Watt Class-D 2 Band Priority

Features

- Rated Output Power : 60W(RMS) @<1% THD
- 3 Inputs
- 1 Mic Input on Front Panel overrides the back panel Input
- Telephone Input
- Priority Muting (Input 1 - Telephone Input Priority)
- External Mute
- Pheonix Screw Terminals For Loudspeaker Connection
- Separate Bass and Treble controls
- Power Source : AC 100-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Power Consumption : 24W
- Weight : 3kg / 6.6lb
- Dimensions (W×H×D) : 300 × 44 × 230mm / 11.8 × 1.7 × 9.1in

Rear view



Public Address Amplifier

MA-110

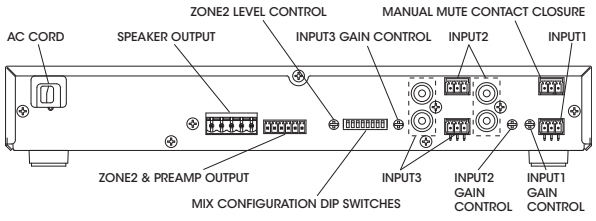


AC | Low High | 100 Watt | Class-D | 2 Band | Priority

Features

- Rated Output Power : 100W(RMS) @<1% THD
- 1U Size Compact Design
- Adoption of digital Amp Circuit
  Adopting rated output 100W High Efficiency CLASS-D Circuit with high reliability, light weight and low heat.
- SMPS Power supplying Circuit
- Tone Controls (Bass / Treble)
- Highly demanded features
  Phantom microphone power, TEL IN, External Mute, etc.
- INPUT Connector : EURO, RCA (MA-110N), XLR, RCA
- Power Source : AC 100-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Weight : 3.05kg / 6.71lb
- Dimensions (W×H×D) : 300 × 44 × 230mm / 11.8 × 1.7 × 9in

Rear view



Public Address Amplifier

PU-112



AC | USB | Low High | 120 Watt | Priority

Features

- 100V/70V Line, Low-Z Output Support
- Compact Design
- Easy Audio Input via USB
- Various Input of 3 channels and TEL IN : MIC, Line, RCA, 3.5Φ PHONE JACK
- Automatic Sleep Function
- Priority Broadcasting for Emergency and User Convenience
- Adjustable Tone according to Usage Environment(BASS/TREBLE)
- Phantom Power
- SMPS Power Circuit
- 3 Channels Input
- Set Output Priority
- Remote Power Control
- Power Source: AC 120-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Power Consumption : 5W
- Weight : 3.18kg / 7lb
- Dimensions (W×H×D) : 300 x 44 x 230mm / 11.8 x 1.7 x 9.1in

Rear view

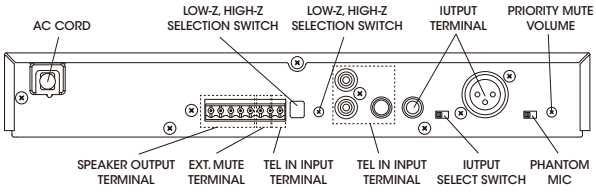
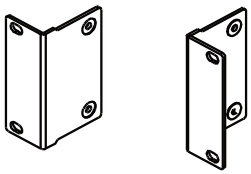
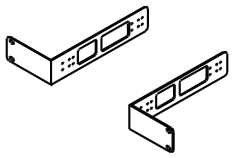


TABLE AMP RACK MOUNT BKT

EIA	MODEL	SHAPE	USING PRODUCT
2U	BKT-A120		PA-212/224 PM-236/248/260 PN-224/236/248/260
1U	BKT-MA106		MA-106/110 PU-112

AMPLIFIER

Rack Type Amplifier

Digital Power Amplifier

DPX-300S/600S

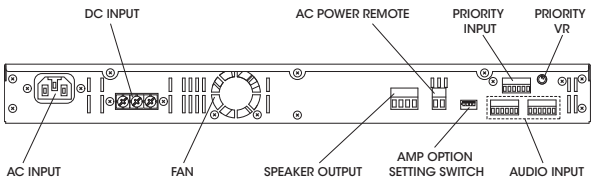


AC/DC · High · 300 Watt · 600 Watt · Class-D

Features

- 1U Size High Output Power Amplifier
- AC/DC power supply design
- Rated output : 300W (DPX-300S), 600W (DPX-600S)
- High efficiency and low weight by SMPS application
- High S/N and low THD
- Realization of full power even in DC power
- Power control using contact points
- STBY, AC, DC, POWER, PRT, -30dB, -10dB, CLIP LED indicator attached
- Removal of common noise component of line by adopting balanced input
- Applied protection circuit for amplifier overheat, output short, overload, power failure, over input, reverse voltage, earth fault and DC output
- Audio input link terminal
- BUZZER ON/OFF switch
- Power Source : AC 220-240V, 50/60Hz, DC 24V (supplied AC mains transformer depends on country requirements)
- Power Consumption : 85W(DPX-300S), 150W(DPX-600S)
- Weight : 7.35kg/16.2lb
- Dimensions (W×H×D) : 482 × 44 × 420mm / 19 × 1.7 × 16.5in

Rear view



Digital Power Amplifier

DPX-300D

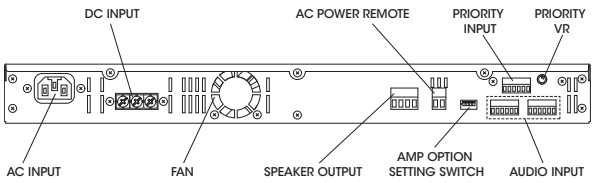


AC/DC · High · 300 Watt · Class-D

Features

- 1U Size High Output Power Amplifier
- AC/DC power supply design
- Rated output : 300W
- High efficiency and low weight by SMPS application
- High S/N and low THD
- Realization of full power even in DC power
- Power control using contact points
- STBY, AC, DC, POWER, PRT, -30dB, -10dB, CLIP LED indicator attached
- Removal of common noise component of line by adopting balanced input
- Applied protection circuit for amplifier overheat, output short, overload, power failure, over input, reverse voltage, earth fault and DC output
- Audio input link terminal
- BUZZER ON/OFF switch
- Power Source : AC 220-240V, 50/60Hz, DC 24V (supplied AC mains transformer depends on country requirements)
- Power Consumption : 150W
- Weight : 7.43kg/16.38lb
- Dimensions (W×H×D) : 482 × 44 × 420mm / 19 × 1.7 × 16.5in

Rear view



Digital Power Amplifier

DPX-900S/1200S

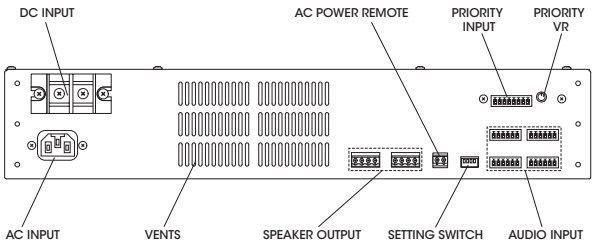


AC/DC | High | 900 Watt | 1200 Watt | Class-D

Features

- 2U Size High Output Power Amplifier
- AC/DC power supply design
- Rated output : 900W (DPX-900S), 1200W (DPX-1200S)
- High efficiency and low weight by SMPS application
- High S/N and low THD
- Realization of full power even in DC power
- Power control using contact points
- STBY, AC, DC, POWER, PRT, -30dB, -10dB, CLIP LED indicator attached
- Removal of common noise component of line by adopting balanced input
- Applied protection circuit for amplifier overheat, output short, overload, power failure, over input, reverse voltage, earth fault and DC output
- Audio input link terminal
- BUZZER ON/OFF switch
- Power Source : AC 220-240V, 50/60Hz, DC 24V (supplied AC mains transformer depends on country requirements)
- Power Consumption : 300W
- Weight : 9.1kg/20.06lb
- Dimensions (W×H×D) : 482 × 88 × 424mm / 19 × 3.5 × 16.7in

Rear view



Digital Power Amplifier

DPX-600D

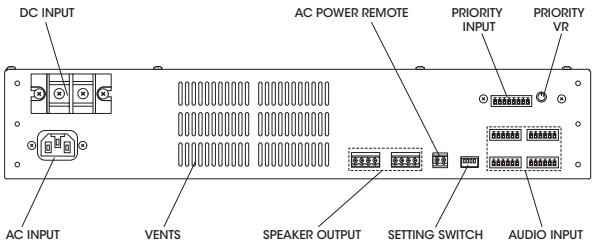


AC/DC | High | 600 Watt | Class-D

Features

- 2U Size High Output Power Amplifier
- AC/DC power supply design
- Rated output : 600W
- High efficiency and low weight by SMPS application
- High S/N and low THD
- Realization of full power even in DC power
- Power control using contact points
- STBY, AC, DC, POWER, PRT, -30dB, -10dB, CLIP LED indicator attached
- Removal of common noise component of line by adopting balanced input
- Applied protection circuit for amplifier overheat, output short, overload, power failure, over input, reverse voltage, earth fault and DC output
- Audio input link terminal
- BUZZER ON/OFF switch
- Power Source : AC 220-240V, 50/60Hz, DC 24V (supplied AC mains transformer depends on country requirements)
- Power Consumption : 300W
- Weight : 9.34kg/20.59lb
- Dimensions (W×H×D) : 482 × 88 × 420mm / 19 × 3.5 × 16.7in

Rear view



Digital Power Amplifier

DPX-300Q

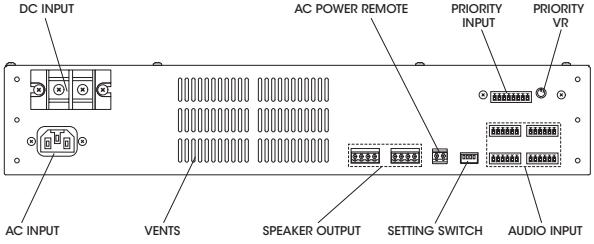


AC DC | High | 300 Watt | Class-D

Features

- 2U Size High Output Power Amplifier
- AC/DC power supply design
- Rated output : 300W
- High efficiency and low weight by SMPS application
- High S/N and low THD
- Realization of full power even in DC power
- Power control using contact points
- STBY, AC, DC, POWER, PRT, -30dB, -10dB, CLIP LED indicator attached
- Removal of common noise component of line by adopting balanced input
- Applied protection circuit for amplifier overheat, output short, overload, power failure, over input, reverse voltage, earth fault and DC output
- Audio input link terminal
- BUZZER ON/OFF switch
- Power Source : AC 220-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Power Consumption : 300W
- Weight : 9.62kg/21.2lb
- Dimensions (W×H×D) : 482 × 88 × 420mm / 19 × 3.5 × 16.7in

Rear view



NOTE

Digital Power Amplifier

DPS-240S/360S/480S/720S

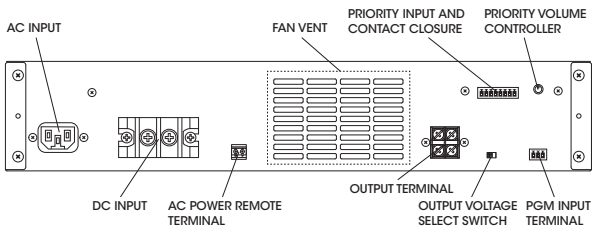


AC DC | High | 240 Watt | 360 Watt | 480 Watt | 720 Watt | Class-D | Priority

Features

- 2U Size High Power Amplifier
- AC & DC Dual Power Operation
- Rated Output Power : 240W(DPS-240S), 360W(DPS-360S), 480W(DPS-480S), 720W(DPS-720S)
- Wide Range of Selection
  1CH(S): 240W/360W/480W/720W(4 type)
- High Efficiency and Low Weight due to SMPS Application
- High S/N and Low THD
- Full Power on DC Power
- Power Control via Contact Closure
- Attached AC, STBY, DC, Power, SIG, 10dB, Clip, PRT LED Indicator
- Eliminate Common Noise of Line by Adapting Balanced Input
- Built-in Amplifier Overheat, Output Short, Overload, Power Failure and DC Output Protection Circuit
- Power Source : AC 220-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Power Consumption :
  DPS-240S/360S/480S : 130W, DPS-720S: 250W
- Dimension and Weight
  DPS-240S/360S/480S : 482(W) × 88(H) × 371(D)mm, 6.9kg
  DPS-720S : 482(W) × 88(H) × 424(D)mm, 7.9kg

Rear view



Digital Power Amplifier

DPS-240D/360D/480D

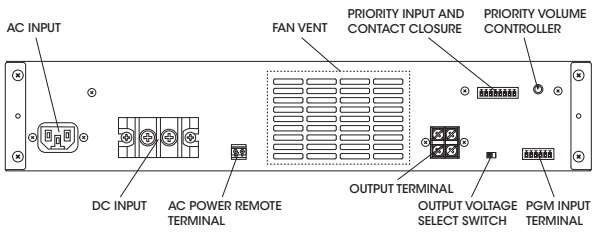


AC DC | High | 240 Watt | 360 Watt | 480 Watt | Class-D | Priority

Features

- 2U Size High Power Amplifier
- AC & DC Dual Power Operation
- Rated Output Power : 240W × 2(DPS-240D), 360W × 2(DPS-360D) 480W × 2(DPS-480D)
- Wide Range of Selection
  2 Channel(D): 240W/360W/480W(3 type)
- High Efficiency and Low Weight due to SMPS Application
- High S/N and Low THD
- Full Power on DC Power
- Power Control via Contact Closure
- Attached AC, STBY, DC, Power, SIG, 10dB, Clip, PRT LED Indicator
- Eliminate Common Noise of Line by Adapting Balanced Input
- Built-in Amplifier Overheat, Output Short, Overload, Power Failure and DC Output Protection Circuit
- Power Source : AC 220-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Power Consumption :
  DPS-240D : 130W, DPS-360D/480D : 250W
- Dimension and Weight
  DPS-240D : 482(W) × 88(H) × 371(D)mm, 7.4kg
  DPS-360D : 482(W) × 88(H) × 424(D)mm, 8.25kg
  DPS-480D : 482(W) × 88(H) × 424(D)mm, 8.23kg

Rear view



Digital Power Amplifier

DPA-300S/600S/900S/1200S

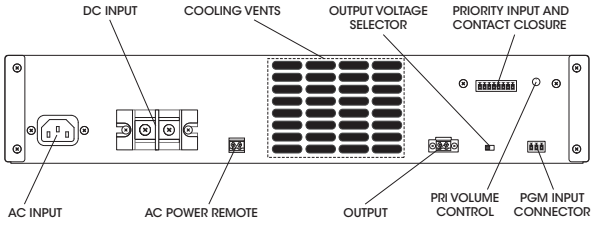


AC DC | High | 300 Watt | 600 Watt | 900 Watt | 1200 Watt | Class-D | Priority

Features

- 2U Size High Power Class-D Power Amplifier
- Rated Output Power :
  DPA-300S - 300W, DPA-600S - 600W
  DPA-900S -900W, DPA-1200S - 1200W
- Wide Range of Selection
  1CH (S) : 1200W/900W/600W/300W (4 Type)
- Power On/Off Control with control input
- AC & DC Dual Power Operation
- It is easy to monitoring a status of amplifier with LED display
  (PROTECT,CLIP,-10dB,SIG,AC,DC,STBY)
- Priority Program Override
- Power Source : AC 100-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Power Consumption :
  DPA-300S/600S : 130W / DPA-900S/1200S : 250W
- Weight : DPA-300S : 6.5kg/14.3lb, DPA-600S : 6.6kg/14.6lb,
  DPA-900S : 7.7kg/17lb, DPA-1200S : 7.7kg/17lb
- Dimensions (W×H×D) :
  DPA-300S/600S : 482 × 88 × 397mm / 19 × 3.5 × 15.6in
  DPA-900S/1200S : 482 × 88 × 450mm / 19 × 3.5 × 17.7in

Rear view



Digital Power Amplifier

DPA-300D/600D

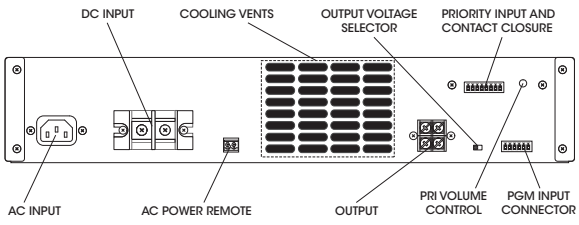


AC DC | High | 300 Watt | 600 Watt | Class-D | Priority

Features

- 2U Size High Power Class-D Power Amplifier
- Rated Output Power :
  DPA-300D - 300W×2, DPA-600D - 600W×2
- Wide Range of Selection
  2CH (D): 600W+600W / 300W+300W (2 Type)
- Power On/Off Control with control input
- AC & DC Dual Power Operation
- It is easy to monitoring a status of amplifier with LED display
  (PROTECT,CLIP,-10dB,SIG,AC,DC,STBY)
- Priority Program Override
- Power Source : AC 100-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Power Consumption :
  DPA-300D : 130W / DPA-600D : 250W
- Weight : DPA-300D : 8.1kg/17.9lb, DPA-600D : 7.1kg/15.7lb
- Dimensions (W×H×D) :
  DPA-300D : 482 × 88 × 397mm / 19 × 3.5 × 15.6in
  DPA-600D : 482 × 88 × 450mm / 19 × 3.5 × 17.7in

Rear view



Digital Power Amplifier

DPA-300T/300Q

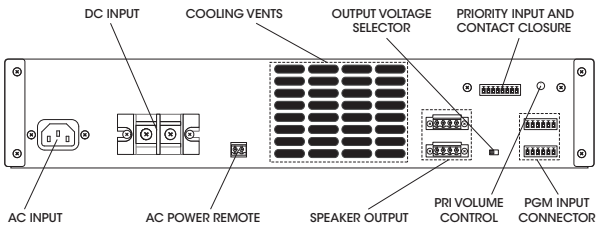


AC DC | High | 300 Watt | Class-D | Priority

Features

- 2U Size High Power Class-D Power Amplifier
- Rated Output Power :
  DPA-300T - 300W×3, DPA-300Q - 300W×4
- Wide Range of Selection
  3CH (T): 300W+300W+300W (1 Type)
  4CH (Q): 300W+300W+300W+300W (1 Type)
- Power On/Off Control with control input
- AC & DC Dual Power Operation
- It is easy to monitoring a status of amplifier with LED display (PROTECT,CLIP,-10dB,SIG,AC,DC,STBY)
- Priority Program Override
- Power Source : AC 100-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Power Consumption : 250W
- Weight : DPA-300T : 8.2kg/18.02lb, DPA-300Q : 8.4kg/18.5lb
- Dimensions (W×H×D) :
  DPA-300T : 482 × 88 × 450mm / 19 × 3.5 × 17.7in
  DPA-300Q : 482 × 88 × 450mm / 19 × 3.5 × 17.7in

Rear view



8CH Digital Power Amplifier

DPA-50E

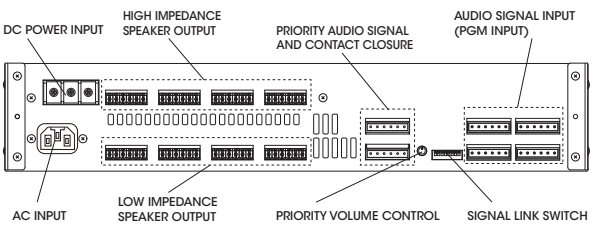


AC DC | Low High | 50 Watt | 60W 4Ω | 30W 8Ω | Class-D | Priority

Features

- 2U Size D-Class amplifier with 8 channels
- Rated Output Power: 60W x 8(4Ω), 50W x 8(100V, 70V)
- 8CH input / output dispersion control
- High efficiency, low weight SMPS circuit
- Using PA / SR speakers for each channel with both LOW-Z (4Ω) and HIGH-Z (100V / 70V) (optional)
- Linking CH1 and the desired channel input with Signal Link function
- Priority broadcasting (Priority function)
- AC & DC dual power operation
- Built-in protection circuit (over-current, over-temperature, output short, etc.)
- Power Source: AC 220-240V, 50/60Hz, DC 24V
  (supplied AC mains transformer depends on country requirements)
- Power Consumption: 110W
- Weight: 11.3kg / 2.49lb
- Dimensions (W×H×D) :
  482 × 88 × 420mm / 19 x 3.5 x 16.5in

Rear view



4CH Digital Power Amplifier

DPA-150Q

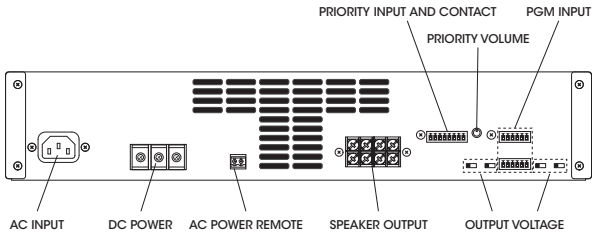


AC DC | Low High | 150 Watt | Class-D | Priority

Features

- 2U Size Class-D multi-channel amplifier: 150 W×4CH (100 V, 70 V, 8 Ω)
- Powerful and delicate sound from high S/N and low THD
- Using PA / SR in spite of SMPS power system and OPTLESS design High efficiency, low heat generation, low weight design
- Perfect protection circuit for over-temperature, output short, overload, power anomaly and DC output
- Outputting PRIORITY input signal
- Full power operation on both AC and DC power
- Output level of SIG (-30 dB), -10 dB and Clip, Protection indicator
- Elimination of COMMON noise component of line by adopting balanced input
- External power control using contact with AC POWER REMOTE function
- Power Source: AC 220-240V, 50/60Hz, DC 24V (supplied AC mains transformer depends on country requirements)
- Power Consumption: 140W
- Weight: 6.82kg / 15.04lb
- Dimensions (W×H×D) : 482 × 88 × 367mm / 19 x 3.5 x 14.4in

Rear view



Public Address Power Amplifier

PA-6312/6324/6336/6348

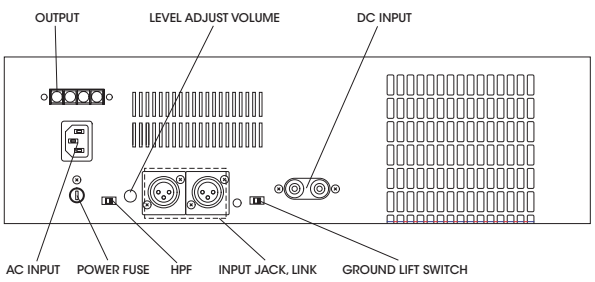


AC DC | Low High | 120 Watt | 240 Watt | 360 Watt | 480 Watt

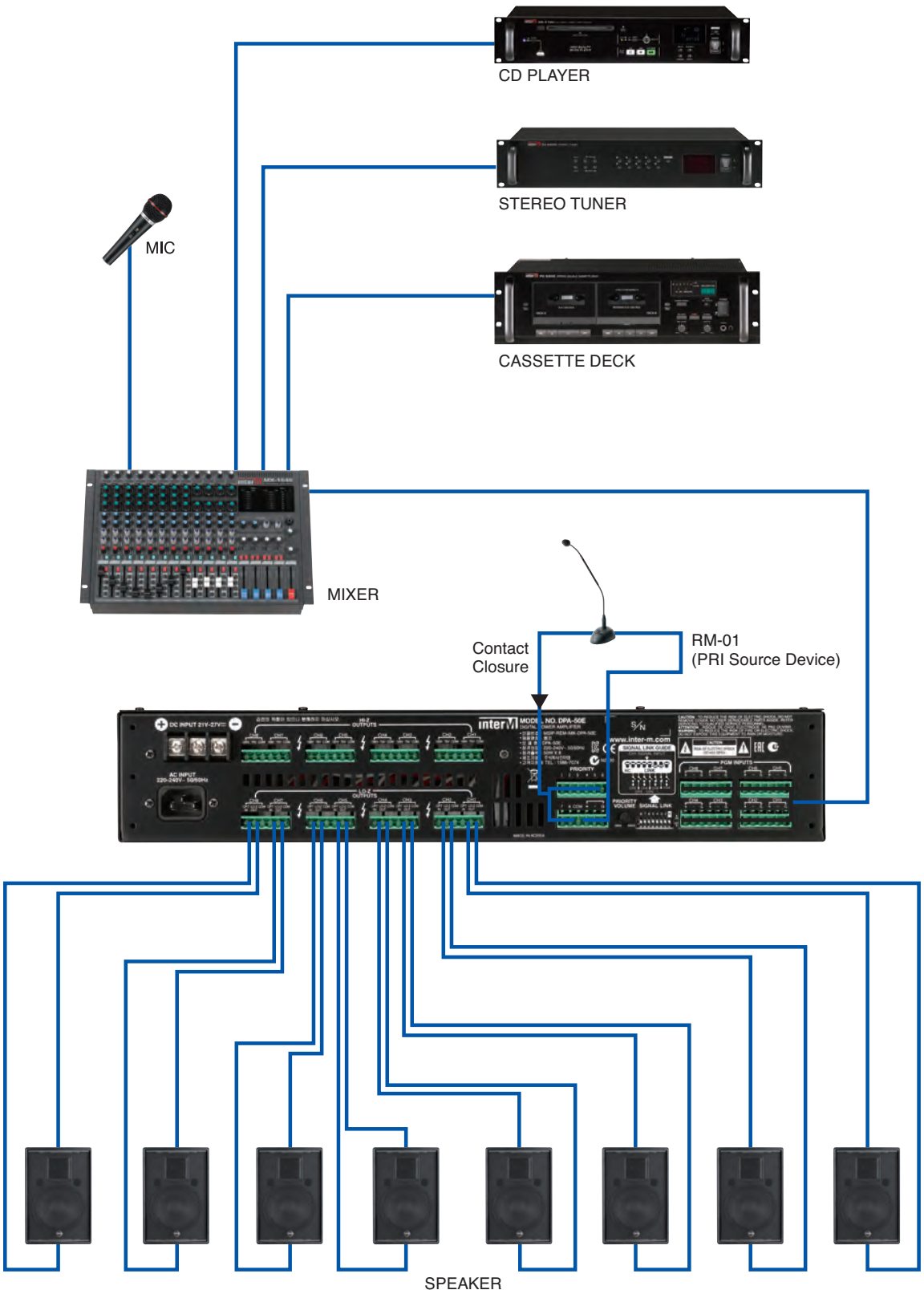
Features

- Rated Output Power : PA-6312 - 120W RMS, PA-6324 - 240W RMS, PA-6336 - 360W RMS, PA-6348 - 480W RMS
- Low distortion (Over 95dB) , High powered circuit
- S/N : 95dB , THD : < 1%
- 400Hz High pass filter
- Adjustable input gain up to -12dB, Visiable Output Level Display
- 3U Size, Rack or Table Type available
- Protection : Thermistor on power transmiter heat sink
- Power Source : AC 100-240V, 50/60Hz, DC 24V (supplied AC mains transformer depends on country requirements)
- Power Consumption : PA-6312 : 130W, PA-6324 : 450W, PA-6336 : 450W, PA-6348 : 600W
- Weight : PA-6312 : 14kg / 30.8lb, PA-6324 : 19kg / 41.9lb, PA-6336 : 19kg / 41.9lb, PA-6348 : 22kg / 48.5lb
- Dimensions (W×H×D) : 482 × 132 × 280mm / 19 × 5.2 × 11in

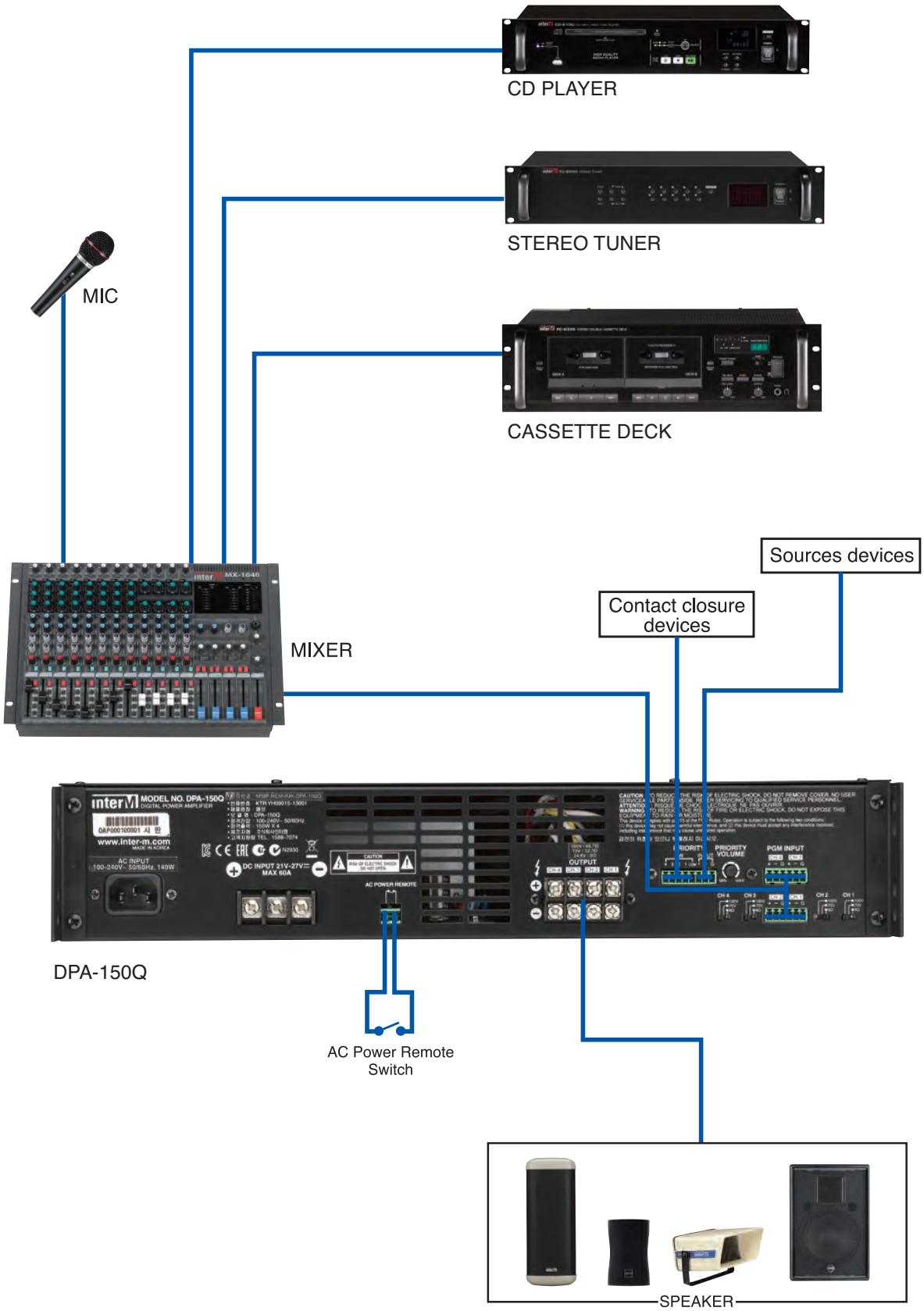
Rear view



CONNECTION DPA-50E



CONNECTION DPA-150Q



AMPLIFIER

Professional Power Amplifier

4CH Digital SR Amplifier

DSA-500Q

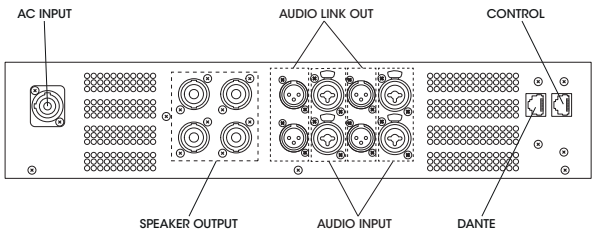


AC | Low 2Ω | Low 4Ω | Low 8Ω | 4 Channel | 300 Watt | Class-D | DSP | Mode Bridge | PC Control

Features

- 4CH high power Class-D Power Amplifier
- Rated Output Power :
  Stereo 4CH 300W@8Ω, 500W@4Ω, 800W@2Ω
  Bridged Mono 2CH 1000W@8Ω, 1600W@4Ω
- Built-in protection circuit such as overheating, output short, overload and DC voltage detection function
- Adjustable P-EQ, Filter, Limiter and Delay via DSP (optional)
- Simultaneous control of multiple amplifiers with PC program via network control
- Power Source : AC 220-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Dimensions (W×H×D) : 482 x 88 x 495mm / 16.54 x 3.5 x 19.5in

Rear view



4CH Digital SR Amplifier

DSA-2000Q

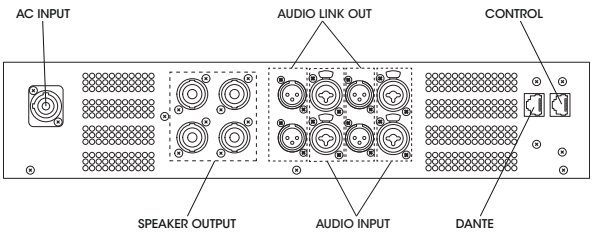


AC | Low 2Ω | Low 4Ω | Low 8Ω | 4 Channel | 1200 Watt | Class-D | DSP | Mode Bridge | PC Control

Features

- 4CH high power Class-D Power Amplifier
- Rated Output Power :
  STEREO 4CH 1200W@8Ω, 2000W@4Ω, 1500W@2Ω
  Bridged Mono 2CH 4000W@8Ω, 3000W@4Ω
- Adjustable P-EQ, Filter, Limiter and Delay via built-in DSP (optional)
- Built-in protection circuit such as overheating, output short, overload and DC voltage detection function
- Front OLED display enables convenient equipment control
- Simultaneous control of multiple amplifiers with PC program via network control
- Dante™ digital audio input available
- Power Source : AC 220-240V, 50/60Hz
  (supplied AC mains transformer depends on country requirements)
- Dimensions (W×H×D) : 482 x 88 x 495mm / 16.54 x 3.5 x 19.5in

Rear view



Professional Power Amplifier

V2-1000/2000/3000/4000/5000



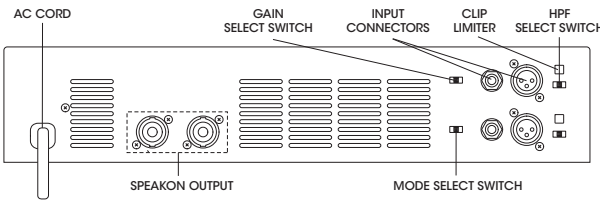
AC | Low 2Ω | Low 4Ω | Low 8Ω | 2 Channel | 1100 Watt | 1700 Watt | 3000 Watt | 3800 Watt | 4500 Watt | Mode Bridge

Features

- Compact size (2-Rack height)
- Stable SMPS(Switch Mode Power Supply) applied for low power consumption and low weight
- Voltage gain available
- High Damping Factor and low THD
- Includes clip limiter to prevent a sound crush
- For better efficiency, 2-step of H-class amp accepted
- Includes protection circuit to prevent a damage of over heat, short and over voltage
- Has 30Hz or 50Hz HPF to protect speaker from low-frequency

Spec		V2-1000	V2-2000	V2-3000	V2-4000	V2-5000
Rated Power						
STEREO	8Ω (1kHz,THD 0.1%)	170W	280W	500W	700W	900W
	4Ω (1kHz,THD 0.1%)	300W	500W	900W	1200W	1500W
	2Ω (1kHz,THD 0.5%)	550W	850W	1500W	1900W	2250W
BRIDGE	8Ω (1kHz,THD 0.1%)	650W	1000W	1800W	2400W	3000W
	4Ω (1kHz,THD 0.5%)	1100W	1700W	3000W	3800W	4500W
S / N		106dB				
Damping Factor		≥380	≥450	≥400		
Power Source		AC 100-240V, 50/60Hz				
Power Consumption (1/8 RATED OUTPUT POWER @4Ω)		380W	600W	770W	870W	1500W
Weight		10.95kg 24.1lb	11kg 24.2lb	12kg 26.4lb	12.1kg 26.6lb	13kg 28.6lb
Dimensions(W x H x D)		482 x 88 x 407mm / 19 x 3.5 x 16in				

Rear view



Professional Power Amplifier

L-1400/1800/2400/3000



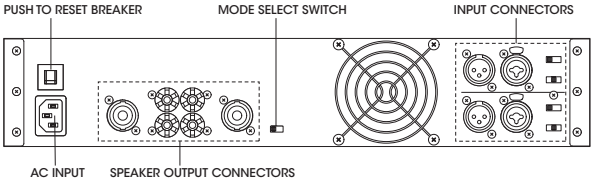
AC | Low | 2 Channel | 1400 Watt | 1800 Watt | 2400 Watt | 3000 Watt | Mode Bridge

Features

- Controls : Front - Power on/off switch, attenuator, LED indicators
  Rear - Mode selector switch, Stereo / Bridged Mono / Parallel HPF 50Hz / 30Hz / off switch, limiter on / off switch
- Connectors : Input - Combination jack and XLR jack (link)
  Output - One 5Way binding post and one speakon™ per channel
- Indicators : Power(Blue), Protection(Red), Clip/Limiter(Red), Signal(Green), Mode Selector(Yellow)
- Filters : 30Hz HPF, 50Hz HPF
- Protection : Turn-on delay, Thermal, DC fault, PC limiter, RF, Clip-limiter, Short circuit, Open circuit
- Cooling : Continuously variable speed fan, front to rear air flow

Spec	L-1400	L-1800	L-2400	L-3000
Rated Power				
RL=8Ω@0.1%THD(Stereo)	280W	360W	500W	650W
RL=4Ω@0.1%THD(Stereo)	450W	600W	750W	1000W
RL=2Ω@0.5%THD(Stereo)	700W	900W	1200W	1500W
RL=8Ω@ 1kHz@0.1%THD(Bridged)	900W	1200W	1500W	2000W
RL=4Ω@ 1kHz@0.5%THD(Bridged)	1400W	1800W	2400W	3000W
S / N	≥ 100dB			
Damping Factor	≥ 400			
Power Source	AC 100-240V, 50/60Hz			
Power Consumption (1/8 Power)	3.5A	4A	4.5A	5A
Weight	14.4kg 31.7lb	15kg 33lb	15.6kg 34.6lb	19.5kg 39.5lb
Dimensions (W×H×D)	482 × 88 × 317mm / 19 × 3.5 × 12.5in			

Rear view



APPLICATIONS V2 SERIES

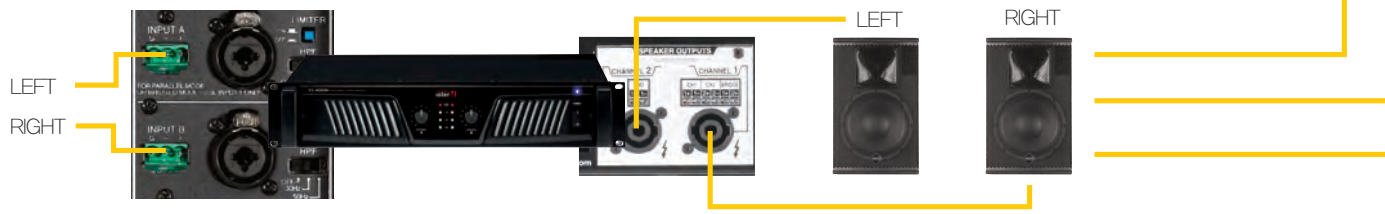
1. With use of bi-amplified speaker which has the separate HIGH and LOW speaker unit (STEREO MODE)
   – Likewise bi-amplified speaker receives the 2CH signal through speacon port, it has 2CH OUTPUT from one port.



2. With use of subwoofer (BRIDGE MODE)



3. With individual use of 2-channel speaker as delay speaker, monitoring speaker, main speaker for small scale installation(STEREO MODE)

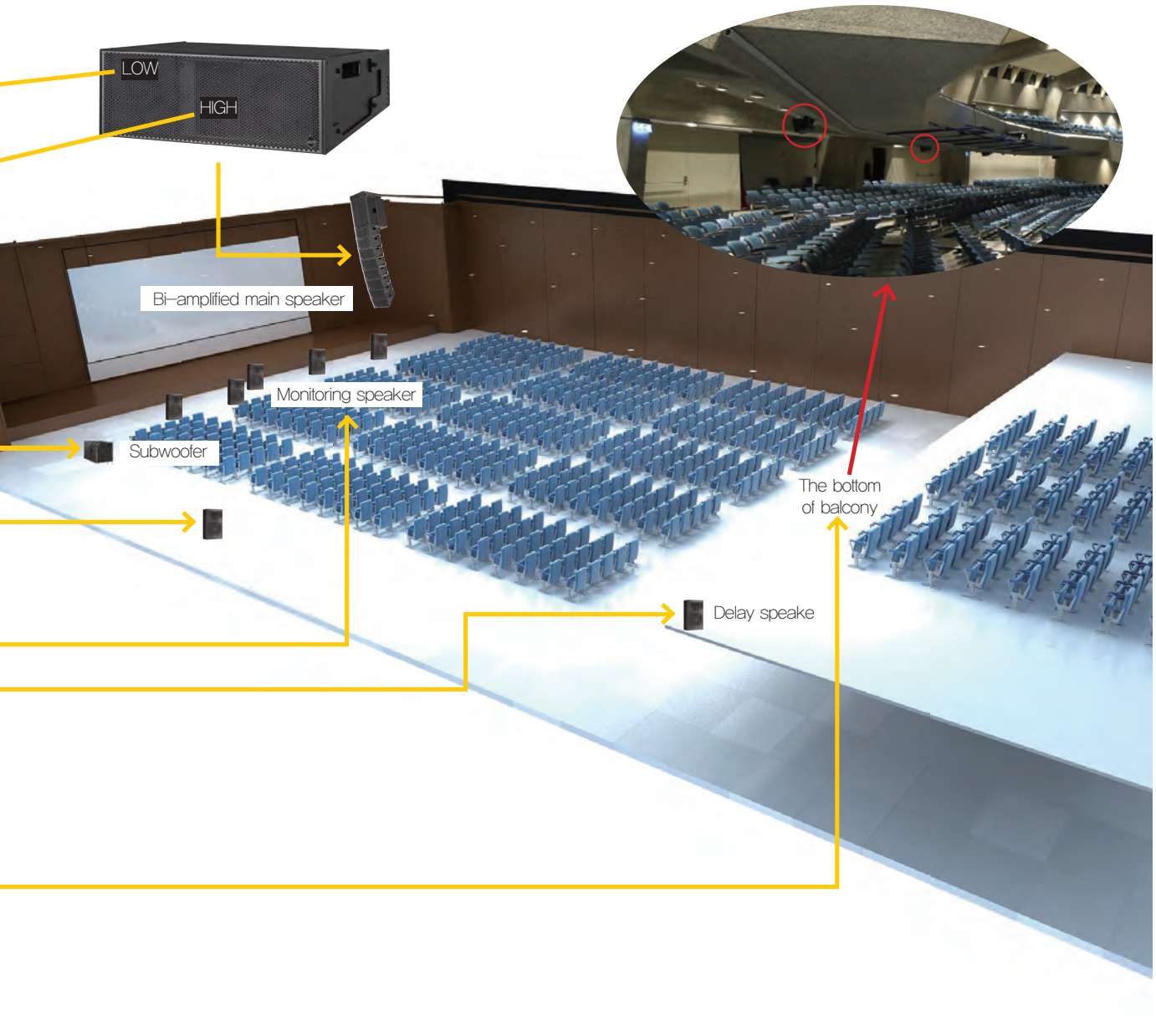


4. Same volume level for many speakers received the same signal (PARALLEL MODE)



5. Individual volume level for several speakers receiving the same signal(SIGNAL LINK)






Dining room


Chapel


Hallway

SPEAKER

Ceiling Speakers

CS-606F

NEW

RoHS COMPLIANT



1 way | 6.5" | 6 Watt

Features

- Constructed from V-0 rated flame-retardant materials
- Engineered for easy and efficient ceiling installation

Spec		CS-606F
Type		6.5" Full-range Ceiling Speaker
Input Power	100V	6/3/1W
Impedance	100V	1.66k/3.3k/10kΩ
Frequency Range(-20%)		88Hz ~ 17.4kHz
Sensitivity (1W/1m, 1kHz)		85dB
Maximum SPL[Cont]		93dB
Nominal Dispersion (Conical)	1kHz	180°
	4kHz	60°
Cut-Out Diameter(Ø, mm)		Ø200 ~ 210
Weight (Net)		630g
Dimensions (Ø(WxH)xD)mm		Ø230 x 100

Ceiling Speakers

CS-610F/615F

12-0031
KS C IEC 60268-5

RoHS COMPLIANT



1 way | 6" | IP34 | 3 Watt | 6 Watt | 12 Watt

Features

- Full Range of 1 way speaker system (6 inch unit)
- Versatile
- Easy installation
- Excellent for Public Address application

Spec		CS-610F	CS-615F
Type		6.5" Full-range Ceiling Speaker	
Input Power	100V	10/5/3W	15/7.5/3.75W
Impedance	100V	1k/2k/3.3kΩ	660/1.3k/2.6kΩ
Frequency Response(-10dB)		300Hz ~ 15.8kHz	300Hz ~ 12kHz
Frequency Range (-20%)		100Hz ~ 19.4kHz	105Hz ~ 18kHz
Sensitivity (1W/1m, 1kHz)		89dB	89dB
Maximum SPL[Cont]		99dB	101dB
Nominal Dispersion (Conical) *1	1kHz	180°	180°
	4kHz	62°	64°
Cut-Out Diameter(Ø, mm)		Ø200 ~ 210	Ø200 ~ 210
Weight (Net)		850g	880g
Dimensions (Ø(WxH)xD)		Ø230 x 100	Ø230 x 100

Ceiling Speakers

CS-510F

11-0646
KS C IEC 60268-5

RoHS COMPLIANT



1 way | 5.25" | 10 Watt

Features

- CS-510F can be installed in a 150mm lighting hole

Spec		CS-510F
Type		5" Full-range Ceiling Speaker
Input Power	100V	10/5/3W
Impedance	100V	1k/2k/3.3kΩ
Frequency Response(-10dB)		145Hz ~ 10kHz
Frequency Range(-20%)		120Hz ~ 18kHz
Sensitivity (1W/1m, 1kHz)		86dB
Maximum SPL[Cont]		96dB
Nominal Dispersion (Conical)	1kHz	180°
	4kHz	83°
Cut-Out Diameter(Ø, mm)		Ø150
Weight (Net)		690g
Dimensions (Ø(WxH)xD)mm		Ø177 x 102

Ceiling Speakers

CS-620FH/630FH/680FH

12-0031
KS C IEC 60268-5

RoHS COMPLIANT



2 way | 6" | IP34 | 20 Watt | 30 Watt | 80 Watt

Features

- 2 Way speaker system (6"-2way coaxial type)
- Versatile
- Easy installation
- Excellent for Public Address application
- Multi-tap switch offers an easy way toCHange taps on a transformer

Spec		CS-620FH	CS-630FH	CS-680FH
Type		6.5" 2Way Coaxial Ceiling Speaker		
Input Power	100V	20/10/5W	30/20/10W	80/40/20W
Impedance	100V	500/1k/2kΩ	330/500/1kΩ	125/250/500Ω
Frequency Response(-10dB)		130Hz ~ 20kHz	130Hz ~ 20kHz	140Hz ~ 20kHz
Frequency Range (-20%)		100Hz ~ 20kHz	85Hz ~ 20kHz	100Hz ~ 20kHz
Sensitivity (1W/1m, 1kHz)		86dB	86dB	88dB
Maximum SPL[Cont]		99dB	101dB	107dB
Nominal Dispersion (Conical)	1kHz	180° *1	126°	180° *1
	4kHz	92°	59°	72°
Cut-Out Diameter(Ø, mm)		Ø200 ~ 205	Ø200 ~ 205	Ø200 ~ 205
Weight (Net)		2kg	2kg	3.4kg
Dimensions (Ø(WxH)xD)mm		Ø230 x 168	Ø230 x 168	Ø230 x 168

Ceiling Speakers

CS-610



1 way · 6.5" · 3 Watt · 5 Watt · 10 Watt

Features

- High reliability with anti-corrosive coating and plating treatment
- Convenient construction due to structure making easy to attach to ceiling
- Full range speaker unit and matching transformer

Spec		CS-610
Type		6.5" Full-range Ceiling Speaker
Input Power	100V	10/5/3W
Impedance	100V	1k/2k/3.3kΩ
Frequency Response(-10dB)		300Hz ~ 15.4kHz
Frequency Range(-20%)		100Hz ~ 17.4kHz
Sensitivity (1W/1m, 1kHz)		90dB
Maximum SPL[Cont]		100dB
Nominal Dispersion (Conical)	1kHz	167°
	4kHz	56°
Cut-Out Diameter(Ø, mm)		Ø195 ~ 200
Weight (Net)		870g
Dimensions (Ø(WxH)xD)mm		Ø228 x 116

APT Speakers

CS-301FC/303FC

11-0646
KS C IEC 60268-5



1 way · 3" · 1 Watt · 3 Watt

Features

- Supplying high quality transformer
- Design blends in the interior
- Convenient construction (Clip type)

Spec		CS-301FC	CS-303FC
Type		3" Full-range Ceiling Type Apart Speaker	
Input Power	100V	1W	3W
Impedance	100V	10kΩ	3.14kΩ
Frequency Response(-10dB)		285Hz ~ 18.4kHz	210Hz ~ 17kHz
Frequency Range(-20%)		230Hz ~ 20kHz	180Hz ~ 19.5kHz
Sensitivity(1W/1m, 1kHz)		80dB	83dB
Maximum SPL[Cont]		80dB	88dB
Nominal Dispersion (Conical)	1kHz	147°	151°
	4kHz	114°	74°
Cut-Out Diameter(Ø, mm)		Ø110 ~ 115	Ø110 ~ 115
Weight(Net)		170g	200g
Dimensions(WxHxD)mm		Ø126 x 42	Ø126 x 42

Ceiling Speakers

CS-610M



1 way · 6.5" · 10 Watt

Features

- High reliability with anti-corrosive coating and plating treatment
- Convenient construction due to structure making easy to attach to ceiling
- Full range speaker unit and matching transformer

Spec		CS-610M
Type		6.5" Full-range Ceiling Speaker
Input Power	100V	10/5/3W
Impedance	100V	1k/2k/3.3kΩ
Frequency Response(-10dB)		310Hz ~ 15kHz
Frequency Range(-20%)		100Hz ~ 17.4kHz
Sensitivity(1W/1m, 1kHz)		90dB
Maximum SPL[Cont]		100dB
Nominal Dispersion (Conical)	1kHz	168°
	4kHz	58°
Cut-Out Diameter(Ø, mm)		Ø195 ~ 200
Weight(Net)		960g
Dimensions(WxHxD)mm		Ø228 x 96

Ceiling Speakers

CS-503FE

11-0646
KS C IEC 60268-5



1 way · 5" · 3 Watt

Features

- High quality matching transformer
- Convenient installation
- Unit Waterproof Cone paper

Spec		CS-503FE
Type		5" Exposure Ceiling Speaker
Input Power	100V	3/1W
Impedance	100V	3.3k/10kΩ
Frequency Response(-10dB)		200Hz ~ 11kHz
Frequency Range(-20%)		100Hz ~ 15.5kHz
Sensitivity (1W/1m, 1kHz)		89dB
Maximum SPL[Cont]		94dB
Nominal Dispersion (Conical)	1kHz	180°
	4kHz	60°
Cut-Out Diameter(Ø, mm)		Ø210
Weight (Net)		650g
Dimensions (Ø(WxH)xD)mm		Ø212 x 75

Column Speakers

CU-410F/420F/440F

11-0646
KS C IEC 60268-5

RoHS COMPLIANT

INDOOR



CU-410F CU-420F CU-440F

1 way | 4" | 10 Watt | 20 Watt | 40 Watt

Features

- Indoor column speaker
- Color : Light Grey
- User based design for fast installation
- Simple and clear design with their rounded corners and edges
- Top quality durable units are applied for excellent sound reproduction performance
- Direction adjustable with bracket

Spec		CU-410F	CU-420F	CU-440F
Type		4" Full-range Column Speaker		
Input Power	100V	10/5W	20/10W	40/20W
Impedance	100V	1k/2kΩ	500/1kΩ	250/500Ω
Frequency Response(-10dB)		140Hz ~ 15.6kHz	140Hz ~ 15.6kHz	135Hz ~ 13.7kHz
Frequency Range(-20%)		115Hz ~ 20kHz.	110Hz ~ 20kHz	100Hz ~ 17.7kHz
Sensitivity (1W/1m, 1kHz)		87dB	91dB	92dB
Maximum SPL[Cont]		97dB	104dB	108dB
Nominal Dispersion (Conical)	1kHz	196° x 135°	200° x 99°	195° x 52°
	4kHz	123° x 116°	110° x 24°	112° x 15°
Weight (Net)		1.97kg	3.13kg	4.76kg
Dimensions (Net, WxHxD, mm)		156 x 300 x 129	156 x 400 x 129	156 x 600 x 129

Column Speakers

CU-410FO/420FO/440FO

11-0646
KS C IEC 60268-5

RoHS COMPLIANT

OUTDOOR



CU-410FO CU-420FO CU-440FO

1 way | 4" | IP34 | 10 Watt | 20 Watt | 40 Watt

Features

- Outdoor column speaker
- Color : Titanium (Light Brown)
- User based design for fast installation
- Simple and clear design with their rounded corners and edges
- Top quality durable units are applied for excellent sound reproduction performance
- Direction adjustable with bracket

Spec		CU-410FO	CU-420FO	CU-440FO
Type		4" Full-range Column Speaker		
Input Power	100V	10/5W	20/10W	40/20W
Impedance	100V	1k/2kΩ	500/1kΩ	250/500Ω
Frequency Response(-10dB)		135Hz ~ 13.7kHz	150Hz ~ 16.9kHz	130Hz ~ 8.8kHz
Frequency Range(-20%)		110Hz ~ 18.4kHz	120Hz ~ 20kHz	100Hz ~ 16kHz
Sensitivity (1W/1m, 1kHz)		86dB	89dB	91dB
Maximum SPL[Cont]		96dB	102dB	107dB
Nominal Dispersion (Conical)	1kHz	192° x 136°	203° x 99°	195° x 55°
	4kHz	104° x 100°	95° x 25°	95° x 15°
Weight (Net)		1.97kg	3.13kg	4.76kg
Dimensions (Net, WxHxD, mm)		156 x 300 x 129	156 x 400 x 129	156 x 600 x 129

Column Speakers

CU-7060/7120

RoHS COMPLIANT

INDOOR



CU-7060 CU-7120

2 way | 4" | 60 Watt | 120 Watt

Features

- Color: Black/White
- Excellent sound quality, intelligibility, and durability
- Suitable both for paging and BGM playback
- 2-Way configuration enabling clear high-frequency reproduction
- Minimize audio quality loss using a high-quality matching transformer
- Screw speaker cable terminal for easy installation
- Wood enclosure
- Brackets included

Spec		CU-7060	CU-7120
Type		4" 2Way Column Speaker	
Input Power	100V	60/30W	120/60W
Impedance	100V	166/330Ω	83/166Ω
	LOW	8Ω	8Ω
Frequency Response(-10dB)		100Hz ~ 20kHz	95Hz ~ 20kHz
Frequency Range(-20%)		55Hz ~ 20kHz	70Hz ~ 20kHz
Sensitivity (1W/1m, 1kHz)		92dB	94dB
Maximum SPL[Cont]		111dB	115dB
Nominal Dispersion (Conical)	1kHz	140° / 100°	155° / 55°
	4kHz	180° / 106°	70° / 20°
Weight (Net)		5.42kg	8.02kg
Dimensions (Net, WxHxD, mm)		130 x 420 x 195	130 x 620 x 195

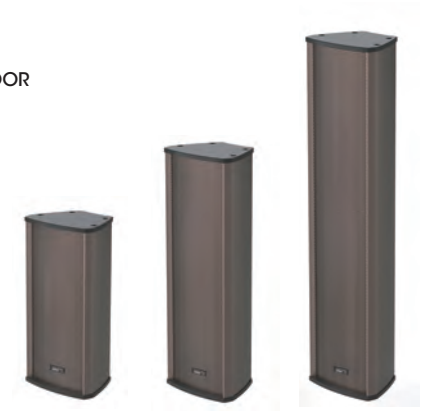
Column Speakers

CU-9030/9060/9120

11-0646
KS C IEC 60268-5

RoHS COMPLIANT

OUTDOOR



CU-9030 CU-9060 CU-9120

2 way | 4" | IP65 | 30 Watt | 60 Watt | 120 Watt

Features

- Color: Metallic brown
- Excellent sound quality, intelligibility
- Rigid zinc-plated aluminum body with a non-flammable steel grill
- Suitable for paging, emergency broadcasting, and BGM playback
- IP65 of weatherproof and dustproof
- Protected from corrosion, discoloration, and deformation
- Multi-tapping using a rotary switch
- 2-Way configuration enabling clear high-frequency reproduction
- Brackets included

Spec		CU-9030	CU-9060	CU-9120
Type		4" 2Way Column Speaker		
Input Power	100V	30/15W	60/30W	120/60W
Impedance	100V	330/660Ω	166/330Ω	83Ω/166Ω
Frequency Response(-10dB)		115Hz ~ 20kHz	105Hz ~ 20kHz	105Hz ~ 15.5kHz
Frequency Range(-20%)		88Hz ~ 20kHz	86Hz ~ 20kHz	87Hz ~ 20kHz
Sensitivity (1W/1m, 1kHz)		89dB	86dB	87dB
Maximum SPL[Cont]		104dB	104dB	108dB
Nominal Dispersion (HxV)	1kHz	150° x 160°	180° x 120°	180° x 60°
	4kHz	110° x 140°	113° x 38°	100° x 20°
Weight (Net)		3.09kg	4.66kg	7kg
Dimensions (Net, WxHxD, mm)		160 x 320 x 125	160 x 450 x 125	160 x 650 x 125

Wall Speakers

WS-15T/30T/50T/80T(W/B)



WS-15T WS-30T WS-50T WS-80T



Features

- Various line-ups to choose according to location and environment
- Applied high quality transformer for both high voltage and low impedance
- Available for outdoor use (IP54)
- Asymmetric horn for optimal acoustic environment design
- Elegant appearance that brings out interior
- Black/white version available (including color of bracket)
- Professional quality of audio sound
- Bracket for wall-mounting (Including screws)

Spec		WS-15T	WS-30T	WS-50T	WS-80T
Type		2.5" Full-range Wall Mount Speaker	4" 2Way Passive Wall Mount Speaker	5" 2Way Passive Wall Mount Speaker	6.5" 2Way Passive Wall Mount Speaker
Input Power	100V	15/10/5/3W	30/15/7.5/3.8/1.9W	50/25/13/6.5/3.3W	80/40/20/10/5W
Impedance	100V	666/1/2/3.3kΩ	333/666/1.3/2.6/5.2kΩ	200/400/769/1.5/3kΩ	125/250/500/1/2kΩ
	LOW	8Ω	8Ω	8Ω	8Ω
Frequency Response(-10dB)		120Hz ~ 20kHz	108Hz ~ 20kHz	94Hz ~ 20kHz	80Hz ~ 20kHz
Frequency Range (-20%)		115Hz ~ 20kHz	83Hz ~ 20kHz	69Hz ~ 20kHz	60Hz ~ 20kHz
Sensitivity (1W/1m, 1kHz)		79dB	84dB	87dB	86dB
Maximum SPL[Cont]		91dB	95dB	104dB	105dB
Norminal Dispersion	1kHz	180° x 180°	Asymmetric Horn Horizontal Coverage : Far Field 60°, Near Field 120° Vertical Coverage : upward +20°, downward -40° (On Axis)		
Weight (Net)		0.9kg	1.68kg	2.34kg	3.58kg
Dimensions (Ø(WxH)xD)mm		92 x 120 x 114	139 x 210 x 129	173 x 250 x 150	210 x 311 x 169

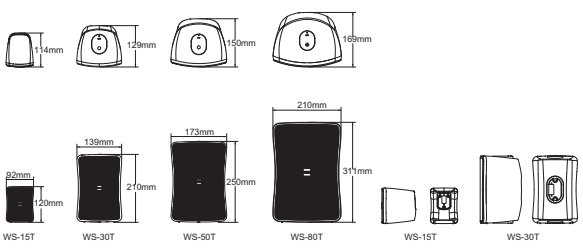


Knuckle bracket

U bracket

* WS-15T : Knuckle bracket (only)
* WS-30T/50T/80T : Knuckle bracket/U bracket (selectable)

Dimensions



NOTE

Wall Speakers

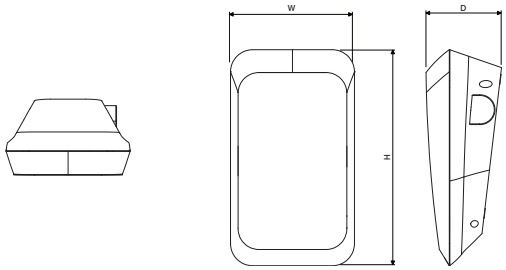
IWS-10/10A(I)



1 way · 6.5" · 10 Watt

Features

- Stylish design
- Adapting high performance unit for sophisticated and rich sound
- Realizing the design with pursuing the modern sense
- Sound volume adjustable with attenuator (IWS-10A)



Spec		IWS-10	IWS-10A
Type		6.5" Full-range Wall Speaker	6.5" Full-range Wall Speaker
Input Power	100V	10/3W	10/3W
Impedance	100V	1k/3.3kΩ	1k/3.3kΩ
Frequency Response(-10dB)		150Hz ~ 15kHz	150Hz ~ 15kHz
Frequency Range (-20%)		120Hz ~ 17.9kHz	120Hz ~ 17.9kHz
Sensitivity (1W/1m, 1kHz)		88dB	88dB
Maximum SPL[Cont]		98dB	98dB
Nominal Dispersion (Conical)	1kHz	180° x 171°	180° x 171°
	4kHz	75° x 100°	75° x 100°
Weight (Net)		1.1kg	1.2kg
Dimensions (Ø(WxH)xD)mm		179 x 312 x 109	179 x 312 x 109

Wall Speakers

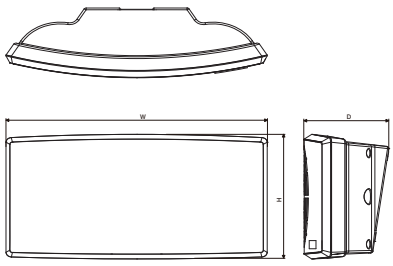
WS-203/210/230(I/B)



1 way · 2 way · 6" · 3 Watt · 10 Watt · 30 Watt

Features

- Using high quality enclosure
- highly reliable Indoor speaker
- Convenient installation
- Favorable exterior design
- WS-203/210 : 1Way SPK system (adapt SUB-CONE, 6″ Full range)
- WS-230 : 2Way SPK system (adapt DOME tweeter, 6″ 2way)



Spec		WS-203	WS-210	WS-230
Type		6.5" Full-range Wall Speaker (Sub Cone)		
Input Power	100V	3/2/1W	10/5/3W	30/20/10W
Impedance	100V	3.3k/5k/10kΩ	1k/2k/3.3kΩ	330/500/1kΩ
Frequency Response(-10dB)		155Hz ~ 20kHz	145Hz ~ 20kHz	135Hz ~ 20kHz
Frequency Range (-20%)		123Hz ~ 20kHz	84Hz ~ 20kHz	99Hz ~ 20kHz
Sensitivity (1W/1m, 1kHz)		87dB	87dB	89dB
Maximum SPL[Cont]		92dB	97dB	104dB
Nominal Dispersion (Conical)	1kHz	142° x 191°	138° x 190°	148° x 190°
	4kHz	48° x 50°	46° x 46°	51° x °52
Weight (Net)		1.1kg	1.2kg	2.2kg
Dimensions (Ø(WxH)xD)mm		315 x 183 x 103	315 x 183 x 103	315 x 183 x 124

Wall Speakers

SWS-03(I/B)/03A(I)/10(I/B)/10A(I)





Features

- SWS series offer a break from the conventional 'Box' speaker
- With either 3W or 10W 100V line versions available, these are the ideal choice for an office environments
- (A) means "with attenuator"

Spec		SWS-03	SWS-03A	SWS-10	SWS-10A
Type		6.5" Full-range Wall Speaker			
Input Power	100V	3/2/1W	3/2/1W	10/5/3W	10/5/3W
Impedance	100V	3.3k/5k/10kΩ	3.3k/5k/10kΩ	1k/2k/3.3kΩ	1k/2k/3.3kΩ
Frequency Response(-10dB)		143Hz ~ 14.7kHz	143Hz ~ 14.7kHz	145Hz ~ 12.6kHz	145Hz ~ 12.6kHz
Frequency Range (-20%)		114Hz ~ 20kHz	114Hz ~ 20kHz	117Hz ~ 17.4kHz	117Hz ~ 17.4kHz
Sensitivity (1W/1m, 1kHz)		88dB	88dB	88dB	88dB
Maximum SPL[Cont]		93dB	93dB	98dB	98dB
Nominal Dispersion (Conical)	1kHz	171° x 131°	160° x 150°	178° x 129°	178° x 129°
	4kHz	50° x 49°	50° x 50°	49° x 49°	49° x 49°
Weight (Net)		1.10kg	1.3kg	1.23kg	1.23kg
Dimensions (Ø(WxH)xD)mm		182 x 274 x 120	182 x 274 x 120	182 x 274 x 120	182 x 274 x 120

NOTE

Clear Horn Speakers

CH-420/430



1 way | High 100V | IP54 | 20 Watt | 30 Watt

Features

- Excellent durability and clarity by adopting a synthetic resin structure
- Indoor and outdoor use with waterproof treatment
- Direct angle adjustment to 240° up and down, 135° left and right, easy to attach to the wall
- IP54

Spec		CH-420	CH-430
Type		4" Horn Speaker	
Input Power	100V	20/10W	30/15W
Impedance	100V	500/1kΩ	330/660Ω
Frequency Response(-10dB)		124Hz ~ 20kHz	127Hz ~ 20kHz
Frequency Range (-20%)		109Hz ~ 20kHz	109Hz ~ 20kHz
Sensitivity (1W/1m, 1kHz)		94dB SPL	94dB SPL
Maximum SPL[Cont]		107dB SPL	109dB SPL
Nominal Dispersion (Conical)	1kHz	109° x 148°	110° x 180°
	4kHz	47° x 38°	50° x 40°
Weight (Net)		3.4kg	3.5kg
Dimensions (Ø(WxH)xD)mm		291 x 154 x 364	291 x 154 x 364

Paging Horn Speakers

HS-20/30/50/30RT/40RT/S20

RoHS COMPLIANT CE



HS-20 HS-30 HS-50



HS-30RT HS-40RT HS-S20

1 way | High 100V | IP65 | 20 Watt | 30 Watt | 40 Watt | 50 Watt

Spec		HS-20	HS-30	HS-50
Type		Horn Speaker (Circle)		
Input Power	100V	20/10W	30/15W	50/25W
Impedance	100V	500/1kΩ	330/660Ω	200/400Ω
Frequency Response(-10dB)		290Hz ~ 8.3kHz	245Hz ~ 8.5kHz	240Hz ~ 6kHz
Frequency Range (-20%)		350Hz~6kHz	350Hz ~ 6kHz	350Hz ~ 6kHz
Sensitivity (1W/1m, 1kHz)		105dB	105dB	105dB
Maximum SPL[Cont]		118dB	120dB	122dB
Nominal Dispersion (Conical)	1kHz	113°	90°	82°
	4kHz	29°	26°	38°
Weight (Net)		2.45kg	2.85kg	3.1kg
Dimensions (Ø(WxH)xD)mm		240(Ø) x 280(D)	280(Ø) x 320(D)	320(Ø) x 350(D)

Spec		HS-30RT	HS-40RT
Type		Horn Speaker (Square)	
Input Power	100V	30/15W	40/20W
Impedance	100V	330/660Ω	250/500Ω
Frequency Response(-10dB)		240Hz ~ 6.3kHz	237Hz ~ 6kHz
Frequency Range (-20%)		350Hz~6kHz	350Hz~6kHz
Sensitivity (1W/1m, 1kHz)		105dB	105dB
Maximum SPL[Cont]		120dB	121dB
Nominal Dispersion (Conical)	1kHz	84° x 110°	85° x 109°
	4kHz	33° x 27°	36° x 28°
Weight (Net)		2.95kg	3.2kg
Dimensions (Ø(WxH)xD)mm		317 x 205 x 365	317 x 205 x 365

Spec		HS-S20
Type		Horn Speaker (Circle)
Input Power	100V	20/10W
Impedance	100V	500/1kΩ
	LOW	8Ω
		290Hz ~ 9.6kHz
Frequency Range (-20%)		350Hz ~ 6kHz
Sensitivity (1W/1m, 1kHz)		103dB
Maximum SPL[Cont]		116dB
Nominal Dispersion (Conical)	1kHz	225°
	4kHz	39°
Weight (Net)		2.05kg
Dimensions (Ø(WxH)xD)mm		169(Ø) x 280(D)

SPEAKER
Professional Speaker

Passive Column Array System

ICA8/ICA12S



ICA8



ICA12S





Features(ICA8)

- 4” Passive column array speaker
- 4” Full-range driver with 1" copper voice coil
- Power handling : 320W (AES)
- The bottom pole-cup for stand installation
- Birchwood enclosure for excellent sound
- Durable polyurea coat

Features(ICA12S)

- 12” Compact subwoofer
- Power handling : 400W (AES)
- Optimized enclosure design for deep and clear bass
- Horizontal and vertical installation
- Pole-cup for mounting the ICA8
- Birchwood enclosure for excellent sound
- Durable polyurea coat

Spec	ICA8	ICA12S
Type	Passive Line Source Column System	Passive Line Source Column System
Frequency Response (±6dB)	150Hz ~ 14kHz	-
Frequency Range (-10dB)	140Hz ~ 16kHz	43Hz ~ 1.5kHz
Rated Power (AES)	320W	400W
Rated Power (Program)	640W	800W
Rated Power (Peak)	1280W	1600W
Recommended Amplifier Power	640W	800W
Sensitivity (1W/1m)	95dB SPL	94dB SPL
Maximum SPL (Peak)	123dB SPL	127dB SPL
Nominal Dispersion(H×V)	1kHz : 180°×30°, 4kHz : 90°×140°	-
Nominal Impedance	5.3Ω	8Ω
Transformer Taps (70V/100V)	-	-
LF Driver	4" Full-range with 25mm 1" voice coil	12" Sub Woofer with 65mm 2.5" voice coil
HF Driver	-	-
Horn	-	-
Enclosure Material	Birch Plywood 15T	Birch Plywood 15T
Grille	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK
Connection	1×SPEAKON (1+,1-)[Parallel]	SPEAKON_Left : Sub (1+,1-)+Full-range (2+,2-) SPEAKON_Right : Full-range
Fittings/Suspension	4 Point M8 inserts (4-Rear)/ICA-S1_Speaker Stand (Option)	-
Finish	Polyurea Coating	Polyurea Coating
Color	Black	Black
Weights (Net)	10.3kg/22.7lb	34.1kg/75.17lb
Dimensions (Net, W×H×D)	130×1042×170mm/5.11×41.02×6.69in	421×653×551mm/16.57×25.7×21.69in
Optional Accessories	Wall Bracket	-

Professional Loudspeaker

TE08/10/12/15

RoHS COMPLIANT



TE08 TE10 TE12 TE15

2 way | 8" | 10" | 12" | 15" | 130 Watt | 160 Watt | 300 Watt | 400 Watt

Features

- Fixed point source speakers with trapezoidal enclosures
- Adopting high power woofer and compression driver, TE series boasts rich tone especially in low band
- Precise covering regardless of horizontal / vertical installation of the enclosure when installed fixed with Rotatable Horn
- 6 or 8 insert points (M10)
- 1 Pole Mount Cup
- Users can use the TE series as main, side-fill, front-fill, balcony speaker, and etc.

Spec	TE08	TE10	TE12	TE15
Type	8" 2Way Passive Point Source	10" 2Way Passive Point Source	12" 2Way Passive Point Source	15" 2Way Passive Point Source
Frequency Response (±3dB)	124Hz ~ 16kHz	113Hz ~ 15kHz	113Hz ~ 16kHz	98Hz ~ 17kHz
Frequency Range (-10dB)	93Hz ~ 18kHz	71Hz ~ 18kHz	48Hz ~ 18kHz	54Hz ~ 19kHz
Rated Power (AES)	130W	160W	300W	400W
Rated Power (Program)	260W	320W	600W	800W
Rated Power (Peak)	520W	640W	1200W	1600W
Recommended Amplifier Power	260W	320W	600W	800W
Sensitivity (1W/1m)	93dB SPL	95dB SPL	94dB SPL	95dB SPL
Maximum SPL (Peak)	120dB SPL	123dB SPL	125dB SPL	127dB SPL
Nominal Dispersion	120°×120°	120°×120°	120°×120°	120°×120°
Nominal Impedance	8Ω	8Ω	8Ω	8Ω
Transformer Taps (70V/100V)	-	-	-	-
LF Driver	8" Woofer 1.46" voice coil	10" Woofer 1.46" voice coil	12" Woofer 2.5" voice coil	15" Woofer 3" voice coil
HF Driver	1" Tweeter 1" voice coil	1" Tweeter 1" voice coil	1" Tweeter 1" voice coil	1" Tweeter 1" voice coil
Horn	Round HORN (Square contour)	Round HORN (Square contour)	Round HORN (Square contour)	Round HORN (Square contour)
Enclosure Material	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating
Grille	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK
Connection	2×SPEAKON (1+,1-) [Parallel]	2×SPEAKON (1+,1-) [Parallel]	2×SPEAKON (1+,1-) [Parallel]	2×SPEAKON (1+,1-) [Parallel]
Fittings/Suspension	6×M10 inserts (2×top, 2×bottom, 2×rear)	6×M10 inserts (2xtop, 2xbottom, 2xrear)	8×M10 inserts (3×top, 3×bottom, 2×rear)	8×M10 inserts (3×top, 3×bottom, 2×rear)
Finish	Polyurea Coating	Polyurea Coating	Polyurea Coating	Polyurea Coating
Color	BLACK	BLACK	BLACK	BLACK
Weights (Net)	10.9kg/24lb	13.5kg/29.8lb	21.4kg/47.2lb	25.4kg/56lb
Dimensions (Net, W×H×D)	☒276×435×285mm/10.9×17.1×11.2in	329x482×356mm/13×19×14in	371×582×400mm/14.6×22.9×15.7in	443×632×450mm/17.4×24.9×17.7in
Optional Accessories	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)

Professional Loudspeaker

HE08/10/12/15



HE08 HE10 HE12 HE15

Features

- Multipurpose Point Source Speakers with Hexagonal Enclosure
- High performance compression driver and high power woofer
- Covering precisely regardless of horizontal / vertical installation of the enclosure when installed fixed with Rotatable Horn
- The HE series can cover both long-distance and short-distance audiences with Asymmetric Horn H: 70° (narrow) ~ 110° (wide), V: 30° (up)~45° (down)
- 8 or 12 insert points (M10)
- 1 Pole Mount Cup
- Users can use the HE series as main, side-fill, front-fill, balcony speaker, and etc.

Spec	HE08	HE10	HE12	HE15
Type	8" 2Way Passive Point Source	10" 2Way Passive Point Source	12" 2Way Passive Point Source	15" 2Way Passive Point Source
Frequency Response (±3dB)	130Hz ~ 16kHz	130Hz ~ 16kHz	107Hz ~ 19kHz	108Hz ~ 17kHz
Frequency Range (-10dB)	95Hz ~ 20kHz	94Hz ~ 20kHz	51Hz ~ 20kHz	52Hz ~ 20kHz
Rated Power (AES)	200W	250W	400W	500W
Rated Power (Program)	400W	500W	800W	1000W
Rated Power (Peak)	800W	1000W	1600W	2000W
Recommended Amplifier Power	400W	500W	800W	1000W
Sensitivity (1W/1m)	93dB SPL	96dB SPL	94dB SPL	97dB SPL
Maximum SPL (Peak)	122dB SPL	126dB SPL	126dB SPL	130dB SPL
Nominal Dispersion	70° (narrow) ~ 110° (wide)H/30° (up) ~ 45° (down)V			
Nominal Impedance	8Ω	8Ω	8Ω	8Ω
Transformer Taps (70V/100V)	-	-	-	-
LF Driver	8" Woofer 2" voice coil	10" Woofer 2.5" voice coil	12" Woofer 3" voice coil	15" Woofer 3" voice coil
HF Driver	1" Tweeter 1.4" voice coil	1" Tweeter 1.4" voice coil	1" Tweeter 2.03" voice coil	1" Tweeter 2.03" voice coil
Horn	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)
Enclosure Material	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating	high-density MDF 15T, Polyurea Coating
Grille	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK
Connection	2×SPEAKON (1+,1-) [Parallel]	2×SPEAKON (1+,1-) [Parallel]	2×SPEAKON (1+,1-) [Parallel]	2×SPEAKON (1+,1-) [Parallel]
Fittings/Suspension	8×M10 inserts (2×top, 2×bottom, 2×left, 2×right)	8×M10 inserts (2×top, 2×bottom, 2×left, 2×right)	12×M10 inserts (3×top, 3×bottom, 2×rear, 2×left, 2×right)	12×M10 inserts (3×top, 3×bottom, 2×rear, 2×left, 2×right)
Finish	Polyurea Coating	Polyurea Coating	Polyurea Coating	Polyurea Coating
Color	BLACK	BLACK	BLACK	BLACK
Weights (Net)	13.5kg/29.8lb	17.2kg/37.9lb	26.4kg/58.2lb	31.5kg/69.4lb
Dimensions (Net, W×H×D)	260×410×260mm/10.2×16.1×10.2in	330×480×330mm/13×18.9×13in	380×570×380mm/15×22.4×15in	450×640×450mm/17.7×25.2×17.7in
Optional Accessories	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)

Professional Loudspeaker

PE08(L/R)/10(L/R)/12(L/R)/15(L/R)

RoHS COMPLIANT



PE08(L/R)



PE10(L/R)



PE12(L/R)



PE15(L/R)



Features

- High-quality multipurpose point source speaker with pentagonal enclosure
- L / R version and powered version is provided according to installation direction
- High-quality compression driver and high-power woofer
- Covering precisely regardless of horizontal / vertical installation of the enclosure when installed fixed with Rotatable Horn
- The PE Series can cover both long-distance and short-distance audiences with Asymmetric Horn H : 70°(narrow)~110°(wide), V :30°(up)~45°(down)
- 8 or 12 insert points (M10)
- 1 Pole Mount Cup (2 Point)
- Users can use the PE series as main, side-fill, front-fill, balcony speaker, stage monitor and etc.

Spec	PE08(L/R)	PE10(L/R)	PE12(L/R)	PE15(L/R)
Type	8" 2Way Passive Point Source	10" 2Way Passive Point Source	12" 2Way Passive Point Source	15" 2Way Passive Point Source
Frequency Response (±3dB)	124Hz ~ 17kHz	117Hz ~ 17kHz	119Hz ~ 16kHz	104Hz ~ 17kHz
Frequency Range (-10dB)	63Hz ~ 20kHz	67Hz ~ 20kHz	61Hz ~ 19kHz	53Hz ~ 20kHz
Rated Power (AES)	250W	300W	500W	600W
Rated Power (Program)	500W	600W	1000W	1200W
Rated Power (Peak)	1000W	1200W	2000W	2400W
Recommended Amplifier Power	500W	600W	1000W	1200W
Sensitivity (1W/1m)	92dB SPL	94dB SPL	95dB SPL	95dB SPL
Maximum SPL (Peak)	122dB SPL	125dB SPL	128dB SPL	129dB SPL
Nominal Dispersion	70° (narrow) ~ 110° (wide)H/30° (up) ~ 45° (down)V			
Nominal Impedance	8Ω	8Ω	8Ω	8Ω
Transformer Taps (70V/100V)	-	-	-	-
LF Driver	8" Woofer 2" voice coil	10" Woofer 2.5" voice coil	12" Woofer 3.0" voice coil	15" Woofer 3" voice coil
HF Driver	1" Tweeter 1.4" voice coil	1" Tweeter 1.4" voice coil	1" Tweeter 2.03" voice coil	1" Tweeter 2.03" voice coil
Horn	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)	Asymmetrical Horn (Rotatable)
Enclosure Material	baltic birch plywood 15T, Polyurea Coating	baltic birch plywood 15T, Polyurea Coating	baltic birch plywood 15T, Polyurea Coating	baltic birch plywood 15T, Polyurea Coating
Grille	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK
Connection	2×SPEAKON (1+,1-) [Parallel]	2×SPEAKON (1+,1-) [Parallel]	2×SPEAKON (1+,1-) [Parallel]	2×SPEAKON (1+,1-) [Parallel]
Fittings/Suspension	10×M10 inserts (2×top, 2×bottom, 2×rear, 2×left, 2×right)	10×M10 inserts (2×top, 2×bottom, 2×rear, 2×left, 2×right)	12×M10 inserts (3×top, 3×bottom, 2×rear, 2×left, 2×right)	12×M10 inserts (3×top, 3×bottom, 2×rear, 2×left, 2×right)
Finish	Polyurea Coating	Polyurea Coating	Polyurea Coating	Polyurea Coating
Color	BLACK	BLACK	BLACK	BLACK
Weights (Net)	11.9kg/26.2lb	15.4kg/34lb	23.5kg/51.8lb	29.1kg/64.2lb
Dimensions (Net, W×H×D)	268×450×258mm/10.6×17.7×10.2in	307×490×289mm/12.1×19.3×11.4in	355×572×338mm/14×22.5×13.3in	425×644×403mm/16.7×25.4×15.9in
Optional Accessories	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)	SB-30HA (Wall Bracket)

Coaxial 2 Way Passive Stage Monitor

SM12



Features

- Coaxial 12" woofer with 1" compression driver
- Power handling : 400W (AES)
- Dispersion (H × V) : 60° × 40°
- Max sound pressure level : 126dB SPL
- Side Handle for easy transportation
- Durable polyurea coat
- M10 rigging points for suspended installation
- Pole-cup for stand installation
- Designed with birch wood enclosure and flame retardant damping materials

Spec	SM12
Type	12" Coaxial 2Way Passive Stage Monitor Speaker
Frequency Response (±3dB)	100Hz ~ 20kHz
Frequency Range (-10dB)	65Hz ~ 20kHz
Rated Power (AES)	400W
Rated Power (Program)	800W
Rated Power (Peak)	1600W
Recommended Amplifier Power	800W
Sensitivity (1W/1m)	96dB SPL
Maximum SPL (Peak)	128dB SPL
Nominal Dispersion(H×V)	1kHz : 100º×95º, 4kHz : 60º×40º
Nominal Impedance	LF : 8Ω/HF : 8Ω
LF Driver	12" Coaxial 3" Voice Coil
HF Driver	12" Coaxial 1.7" Voice Coil
Horn	60º×40º Coverage Horn
Crossover Frequency	-
Enclosure Material	Birch Plywood 18T, Polyurea Coating
Grille	SECC 1.5t, Powder Coating/BLACK
Connection	3×SPEAKON (1+,1-) [Parallel]
Fittings/Suspension	14 Point M10 inserts (4×Rear, 4×Bottom, 3×Left, 3×Right)
Finish	Polyurea Coating
Color	BLACK

NOTE

Professional Linearray Speaker System

CLA-5K/15SK, CLA-5K FRAME



CLA-5K



CLA-15SK



CLA-5K FRAME



Line-Array

2 way | 1 way | 5" | 15" | 160 Watt | 600 Watt

Features (CLA-5K)

- High quality drivers
- Phase plug
- Rugged enclosure
- Compact Size Enclosure
- Integrated rigging system for suspending or ground stack with CLA-15SK

Features (CLA-15SK)

- High quality drivers
- Rugged enclosure
- Compact Size Enclosure

Spec	CLA-5K	CLA-15SK
Type	2Way Bi-amp Compact Line Array Speaker	Line Array Subwoofer
Frequency Response (±3dB)	125Hz ~ 17kHz	67Hz ~ 2.8kHz
Frequency Range (-10dB)	75Hz ~ 20kHz	28Hz ~ 3.5kHz
Rated Power (AES)	LF : 160W/HF : 30W	600W
Rated Power (Program)	LF : 320W/HF : 60W	1200W
Rated Power (Peak)	LF : 640W/HF : 120W	2400W
Recommended Amplifier Power	LF : 320W/HF : 60W	1200W
Sensitivity (1W/1m)	LF : 93dB SPL/HF : 105dB SPL	99dB SPL
Maximum SPL (Peak)	LF : 118dB SPL/HF : 122dB SPL	133dB SPL
Nominal Dispersion	90˚H/10˚V	OMNI
Nominal Impedance	LF : 16Ω/HF : 8Ω	8Ω
Crossover Point	2,000Hz, 24dB/oct, LR Filter	150Hz, 24dB/oct, LR Filter
LF Driver	5" Woofer 1.26" voice coil	15" Woofer 3" voice coil
HF Driver	1" Twitter 1.4" voice coil	-
Horn	Line Array Module	-
Enclosure Material	15T Birch Plywood, Polyurea Coating	15T Birch Plywood, Polyurea Coating
Grille	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK
Connection	2×SPEAKON (1+,1- : LF / 2+,2- : HF) [Parallel]	2×SPEAKON (1+,1-) [Parallel]
Fittings/Suspension	4Point flying rigging 0˚~10˚ variable angle(1˚step)	4Point flying rigging
Finish	Polyurea Coating	Polyurea Coating
Color	BLACK	BLACK
Weights (Net)	12.9kg/28.4lb	36.3kg/80lb
Dimensions (Net, W×H×D)	477×170×364mm/18.8×6.7×14.3in	477×505×741mm/18.8×19.9×29.2in
Optional Accessories	CLA-5K Frame	CLA-5K Frame

Professional Linearray Speaker System

CLA-8K/18SK, CLA-8K FRAME



CLA-8K



CLA-18SK



CLA-8K FRAME



Line-Array

2 way | 1 way | 8" | 18" | 450 Watt | 800 Watt

Features (CLA-8K)

- High quality drivers
- Phase plug
- Rugged enclosure
- Compact Size Enclosure
- Integrated rigging system for suspending or ground stack with CLA-18SK

Features (CLA-18SK)

- High quality drivers
- Rugged enclosure
- Compact Size Enclosure

Spec	CLA-8K	CLA-18SK
Type	2Way Bi-amp Compact Line Array Speaker	Line Array Subwoofer
Frequency Response (±3dB)	150Hz ~ 20kHz	37Hz ~ 2.5kHz
Frequency Range (-10dB)	103Hz ~ 20kHz	30Hz ~ 3kHz
Rated Power (AES)	LF : 450W/HF : 60W	800W
Rated Power (Program)	LF : 900W/HF : 120W	1600W
Rated Power (Peak)	LF : 1800W/HF : 240W	3200W
Recommended Amplifier Power	LF : 900W/HF : 120W	1600W
Sensitivity (1W/1m)	LF : 98dB SPL/HF : 105dB SPL	98dB SPL
Maximum SPL (Peak)	LF : 130.5dB SPL/HF : 128.8dB SPL	133dB SPL
Nominal Dispersion	90˚H/10˚V	OMNI
Nominal Impedance	LF : 16Ω/HF : 16Ω	8Ω
Crossover Point	1,400Hz, 24dB/oct, LR Filter	100Hz, 24dB/oct, LR Filter
LF Driver	8" Woofer 2" voice coil	18" Woofer 3" voice coil
HF Driver	1" Twitter 1.4" voice coil	-
Horn	Constant directivity horn with Precision waveguide	-
Enclosure Material	15T Birch Plywood, Polyurea Coating	15T Birch Plywood, Polyurea Coating
Grille	SECC 1.5t, Powder Coating/BLACK	SECC 1.5t, Powder Coating/BLACK
Connection	2×SPEAKON (1+,1- : LF / 2+,2- : HF) [Parallel]	2×SPEAKON (1+,1-) [Parallel]
Fittings/Suspension	4Point flying rigging 0˚~10˚ variable angle(1˚step)	4Point flying rigging
Finish	Polyurea Coating	Polyurea Coating
Color	BLACK	BLACK
Weights (Net)	26kg/57.3lb	49kg/108lb
Dimensions (Net, W×H×D)	694×256×486mm/27.3×10.1×19.1in	694×520×870mm/27.3×20.5×34.3in
Optional Accessories	CLA-8K Frame	CLA-8K Frame

Accessory

Attenuator

ATT-03/30/BOX





Features

- Four-step level control
- Switch-plate-mounted attenuator unit
- Attractive, modern design
- Simple installation
- Screwless terminal block for easy installing
- Steel box for ATT-03 / 30 (Attenuator Box)

Spec		ATT-03	ATT-30
Rated Power		3W	30W
Application		2~3W	7~30W
Input Impedance (Reference Voltage 100V)		5kΩ~3.3kΩ	1.4kΩ~330Ω
Volume Control		4 STEP SW (-∞, -10, -4, 0dB)	4 STEP SW (-∞, -12, -6, 0dB)
Method		Resistor	Transformer
Material	Plate	SECC 1.0T	
	Front Cover	ABS	
Weight		112g / 0.24lb	196g / 0.43lb
Dimensions (W × H × D)		68 × 120 × 38mm / 2.68 x 4.72 x 1.5in	

Speaker Bracket

SB-30HA, WS BKT



SB-30HA



WS BKT
K-BKT-15/30



WS BKT
U-BKT-30/50/80

Features

SB-30HA

- Speaker Bracket (maximum 30kg / 66.14lb)

WS BKT(W/B)

- K-BKT-15 : 43.52(W) × 76.3(H) × 53.6(D)mm (for WS-15T)
- K-BKT-30 : 84(W) × 81(H) × 73.5(D)mm (for WS-30T/50T/80T)
- U-BKT-30 : 45(W) × 108(H) × 213(D)mm (for WS-30T)
- U-BKT-50 : 45(W) × 126(H) × 252(D)mm (for WS-50T)
- U-BKT-80 : 45(W) × 158(H) × 312(D)mm (for WS-80T)

Blank Panels

BP-1U/2U/3U



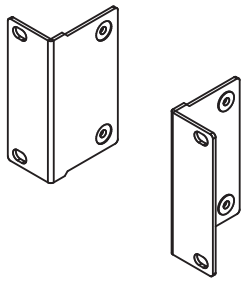
Features

- Easy handling of empty space when constructing RACK
- Securing space for heat emission
- Weight : BP-1U : 250g / 0.55lb, BP-2U : 420g / 0.92lb, BP-3U : 590g / 1.3lb
- Dimensions (W×H×D)
  BP-1U : 482 × 44 × 15mm / 19 × 1.7 × 0.59in
  BP-2U : 482 × 88 × 15mm / 19 × 3.5 × 0.59in
  BP-3U : 482 × 132 × 15mm / 19 × 5.2 × 0.59in

NOTE

Rack Mount Bracket

BKT-A120



Application Type



•PA-212 / 224

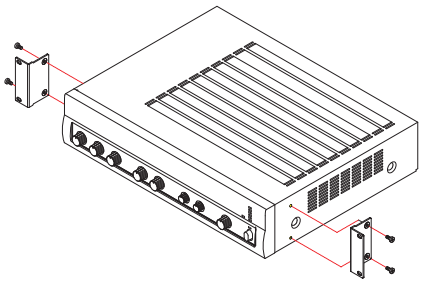


•PM-236 / 248 / 260



•PN-236 / 248 / 260

BKT Ass'y



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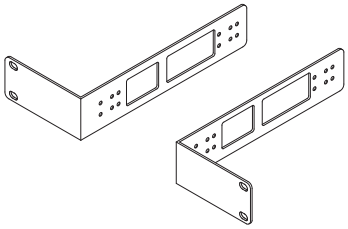
Rack Mount Bracket

BKT-MA106

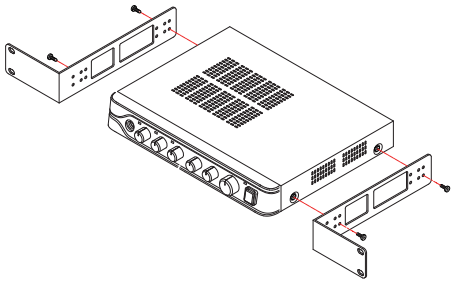


Application Type



•MA-106 / 110

BKT Ass'y



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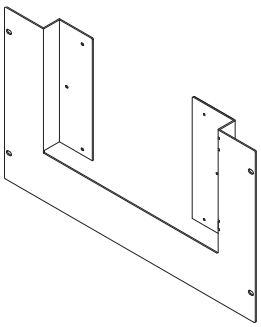
Rack Mount Bracket

BKT-SC05EM

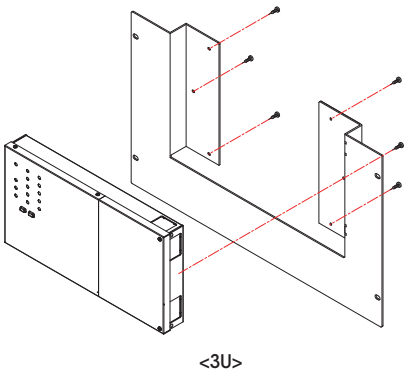


Application Type



•SC-05EM

BKT Ass'y



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Steel Rack Cabinets

PR-091A/111A/151A/231A/271A/331A/391A
PR-091NA/111NA/151NA/231NA/271NA/331NA/391NA

RoHS COMPLIANT



*A : Assembly *NA : Non assembly

Spec	Unit	PR-091A	PR-111A	PR-151A	PR-231A	PR-271A	PR-331A	PR-391A
Weight	kg	23	24	32.5	42	47	53	62.5
	lb	50.7	52.9	71.6	92.6	103.6	116.8	137.8
Dimensions (W×H×D)	mm	587 × 508 × 587	587 × 597 × 587	587 × 844 × 587	587 × 1,200 × 587	587 × 1,378 × 587	587 × 1,645 × 587	587 × 1,912 × 587
	inches	23 × 20 × 23	23 × 23.5 × 23	23 × 33.2 × 23	23 × 47.2 × 23	23 × 54.2 × 23	23 × 64.7 × 23	23 × 75.2 × 23
Spec	**Unit**	**PR-091NA**	**PR-111NA**	**PR-151NA**	**PR-231NA**	**PR-271NA**	**PR-331NA**	**PR-391NA**
Weight	kg	26.5	27.2	37.7	49.1	55	63.7	73.7
	lb	58.3	59.8	83	108.2	121.3	140.4	162.4
Dimensions (W×H×D)	mm	315 × 430 × 650	315 × 520 × 650	315 × 790 × 650	290 × 1,205 × 650	290 × 1,330 × 650	290 × 1,590 × 650	290 × 1,865 × 650
	inches	12.4 × 16.9 × 25.5	12.4 × 20.4 × 25.5	12.4 × 31.1 × 25.5	11.4 × 47.4 × 25.5	11.4 × 52.3 × 25.5	11.4 × 62.5 × 25.5	11.4 × 73.4 × 25.5

Aluminum Rack Cabinet Series

PA-151D/231D/271D/331D/391D/401D/451D

RoHS COMPLIANT



Spec	Unit	PA-151D	PA-231D	PA-271D	PA-331D	PA-391D	PA-401D	PA-451D
Weight	kg	34.2	46.3	51	59.7	71.8	-	-
	lb	75.4	102.1	112.4	131.6	158.3	-	-
Dimensions (W × H × D)	mm	587 × 885 × 587	587 × 1240 × 587	587 × 1420 × 587	587 × 1685 × 587	587 × 1955 × 587	587 × 2000 × 587	587 × 2200 × 587
	inches	23 × 34.8 × 23	23 × 48.8 × 23	23 × 55.9 × 23	23 × 66.3 × 23	23 × 77 × 23	23 × 78.7 × 23	23 × 86.6 × 23

Steel Rack Cabinet Series

PR-401A/451A
PR-401NA/451NA



*A : Steel *NA : Non assembly

Spec	Unit	PR-401A	PR-401NA	PR-451A	PR-451NA
Weight	kg	62	58.2	69	65.6
	lb	136.7	128.3	152.1	144.6
Dimensions (W × H × D)	mm	587 x 2000 x 587	587 x 2000 x 587	587 x 2200 x 587	587 x 2200 x 587
	inches	23.1 × 78.7 × 23.1	23.1 × 78.7 × 23.1	23.1 × 86.6 × 23.1	23.1 × 86.6 × 23.1

Inter-M Surge Protector

ISP-108/116



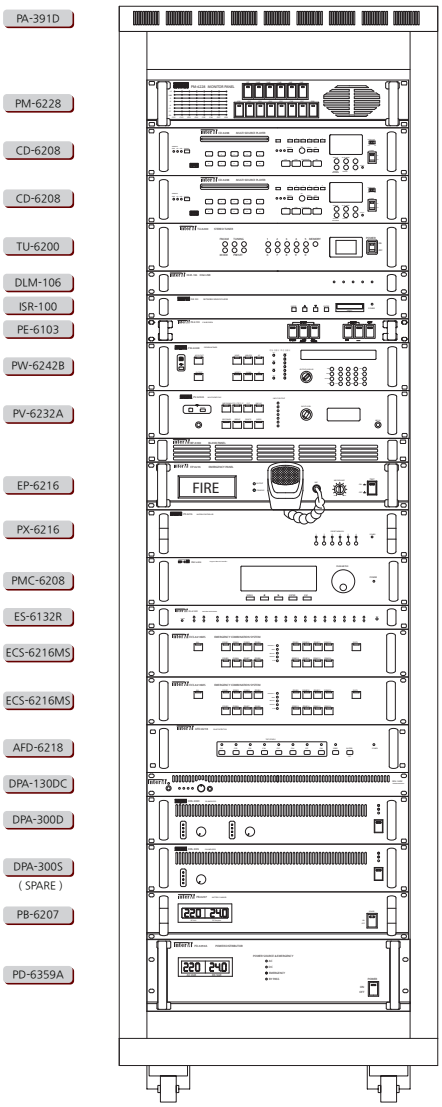
Features

- Equipment to protect outdoor speakers and amplifiers from lightning strokes
- Up to 16 channels of amplifier output and speaker connection
- Weight : 3.56kg / 7.85lb
- Dimensions (W×H×D) : 300 x 376 x 47mm / 11.81 x 14.8 x 1.85in

CONNECTION BLOCK DIAGRAM

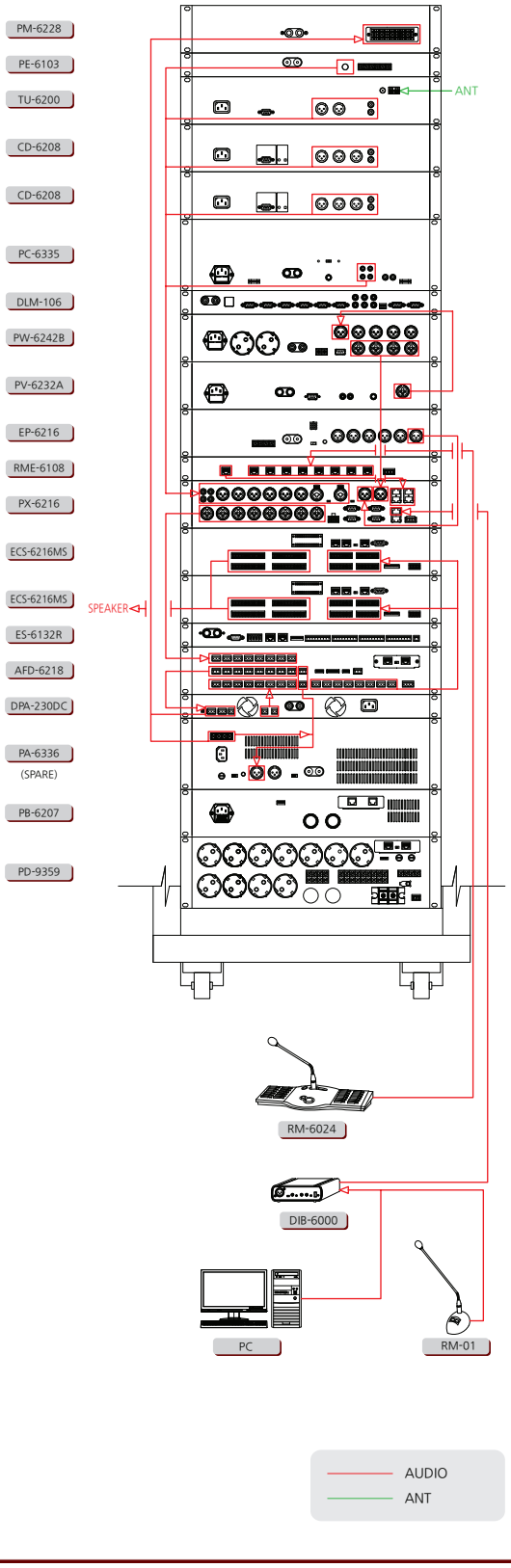
Rack Connection

6000 SYSTEM FRONT



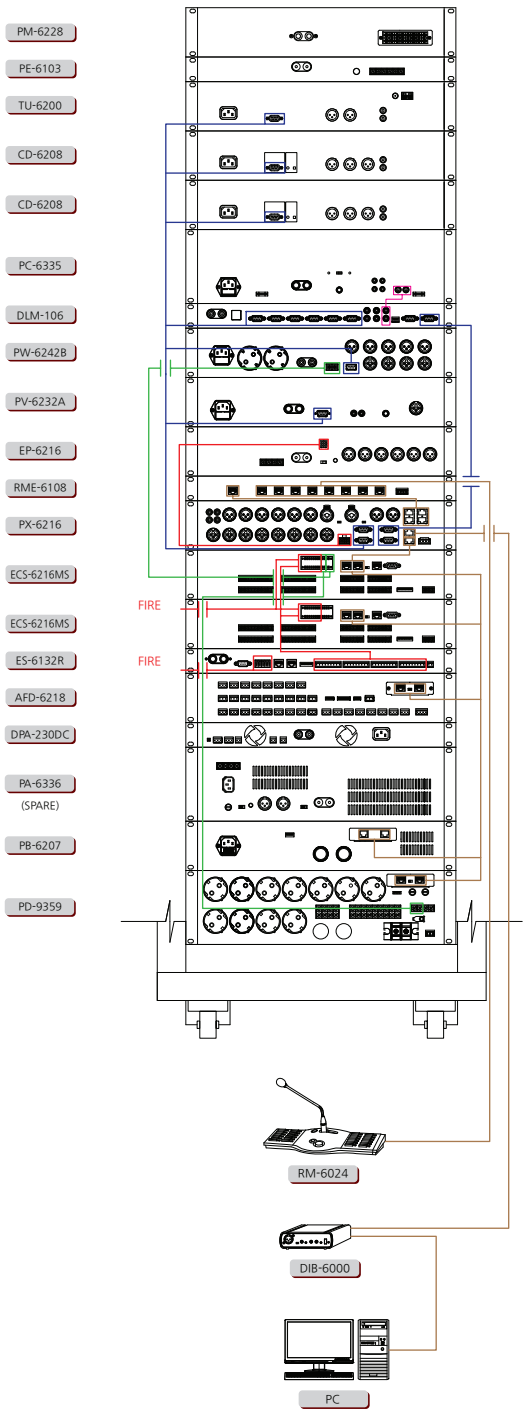
Rack Connection

6000 REAR (AUDIO)



Rack Connection

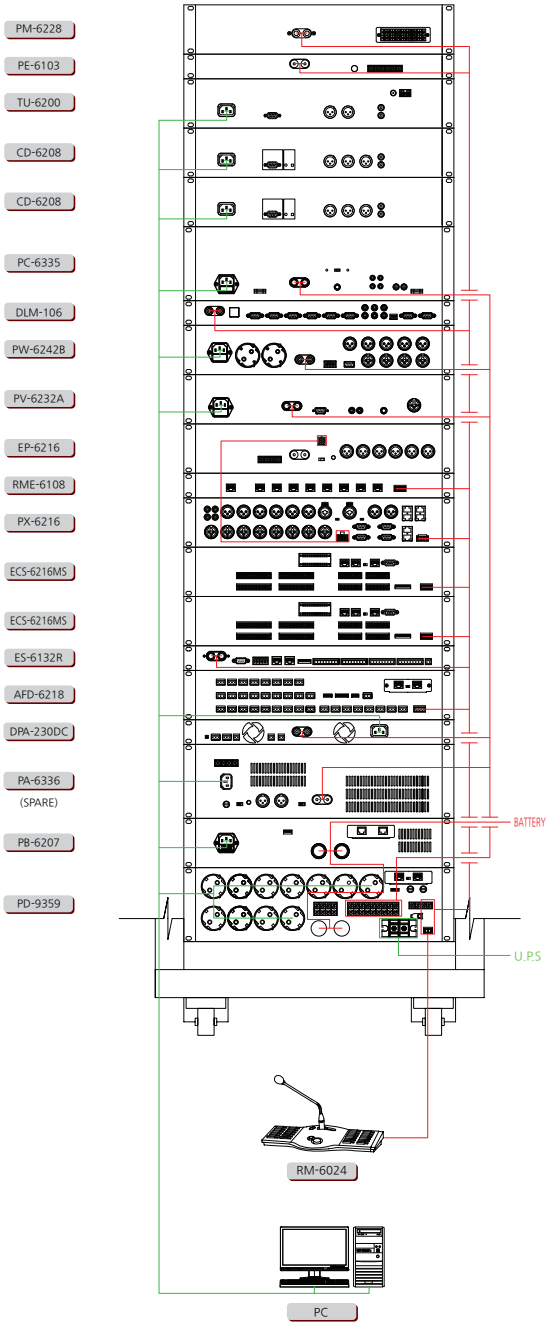
6000 REAR (COMM,)



RS-232
RS-422,485
DIGI-LINK
SENSOR
FIRE

Rack Connection

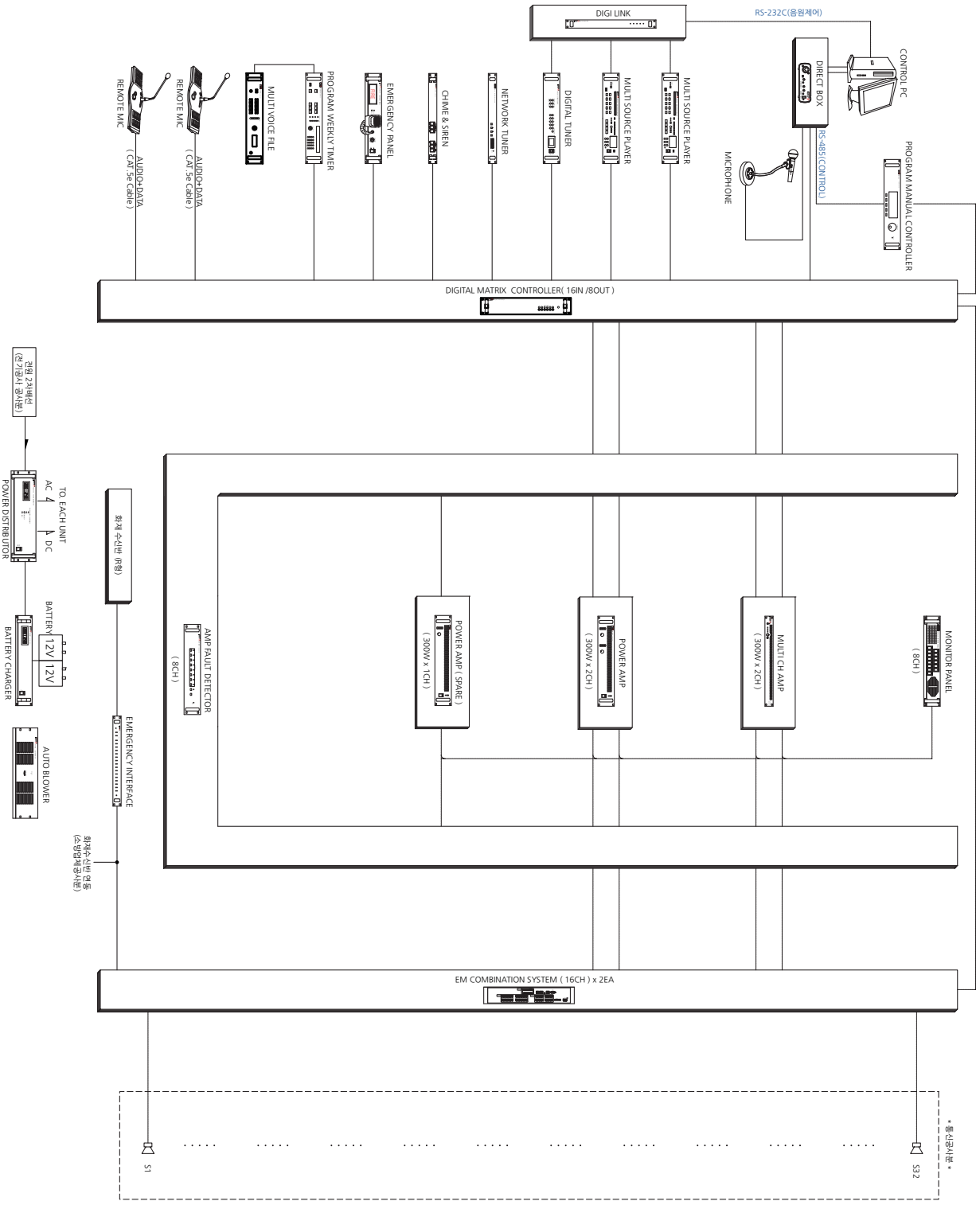
6000 REAR (POWER)



AC POWER
DC POWER

Block Diagram

6000 SYSTEM



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