

DIGITAL PA SYSTEM

*Nindōmā*



# CATALOG PRODUCT

-COMMERCIAL AUDIO and  
PUBLIC ADDRESS SYSTEMS-

## Daftar Isi

**Central Processor**

|                                   |     |
|-----------------------------------|-----|
| - DSS-CPCOM                       | 001 |
| - DSS-AMX16, DSS-RPS16            | 002 |
| - DSS-ZPS16, DSS-RCS16            | 003 |
| - DSS-PREM10, DSS-EMP3            | 004 |
| - DSS-CMP16, DSS-SS416, DSS-SS116 | 005 |
| - DSS-PT6, DSS-TLI, DSS-AMX32     | 006 |
| - DSS-PSU16, DSS-AMS5C, DSS-LIS04 | 007 |
| - DSS-PSQ16                       | 008 |

**Power Amplifier**

|                                      |     |
|--------------------------------------|-----|
| - DSS-PAM360, DSS-PAM460, DSS-PAM660 | 008 |
|--------------------------------------|-----|

**High Power Amplifier**

|                            |     |
|----------------------------|-----|
| - DSS-HPA1000, DSS-HPA1500 | 009 |
|----------------------------|-----|

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|                                                             |     |
|-------------------------------------------------------------|-----|
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|                                                                    |     |
|--------------------------------------------------------------------|-----|
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**Ceiling Speaker**

|                                                      |     |
|------------------------------------------------------|-----|
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| - SP-C436M, SP-C536M, SP-C636M                       | 016 |

**Wall Mount Speaker**

|                                                                                                      |     |
|------------------------------------------------------------------------------------------------------|-----|
| - SP-W610, SP-WC540B                                                                                 | 016 |
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| - SP-WS420W, SP-WS530W, SP-WS640W                                                                    | 017 |

**Projection Speaker**

|                                    |     |
|------------------------------------|-----|
| - SP-PS510P, SP-PS620P, SP-PS620PB | 018 |
|------------------------------------|-----|

**Horn Speaker**

|                                               |     |
|-----------------------------------------------|-----|
| - SP-HS10, SP-HS15, SP-HS30, SP-HS50          | 018 |
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**Column Speaker**

|                                                                   |     |
|-------------------------------------------------------------------|-----|
| - SP-CS0D10, SP-CS0D20,<br>SP-CS0D30, SP-CS0D40                   | 019 |
| - SP-OCS20, SP-OCS40, SP-OCS60,<br>SP-OCS80, SP-OCS100, SP-OCS120 | 020 |
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| - SP-CSID10S, SP-CSID20S,<br>SP-CSID30S, SP-CSID40S               | 021 |

**Volume Controls**

|                                                                                                   |     |
|---------------------------------------------------------------------------------------------------|-----|
| - VC-S06A/VC-S06AT, VC-S30A/VC-S30AT<br>VC-S60A/VC-S60AT, VC-S120A/VC-S120AT,<br>dan Type Lainnya | 022 |
|---------------------------------------------------------------------------------------------------|-----|

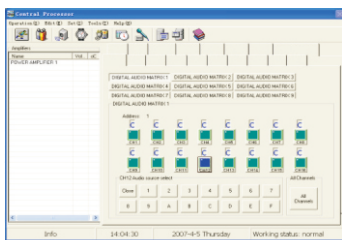
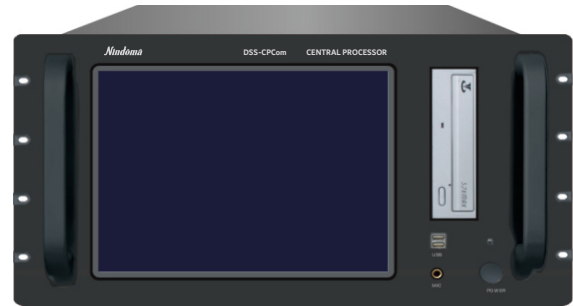
**Rack Mount Cabinet**

|                                                                             |     |
|-----------------------------------------------------------------------------|-----|
| - RCK-06U, RCK-09U, RCK-12U, RCK-16U,<br>RCK-24U, RCK-28U, RCK-37U, RCK-42U | 023 |
|-----------------------------------------------------------------------------|-----|

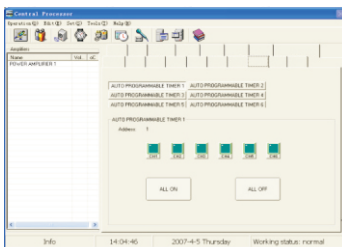
## Central Processor

## DSS-CPCoM

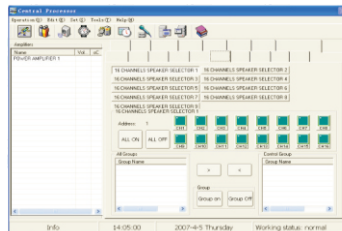
- ▶ A convenient way to manage all settings and events over multiple addressable devices.
- ▶ With 12' inch touchable screen for easy operation.
- ▶ Schedule broadcast with weekly, daily or monthly settings.
- ▶ Power on/off programmable.
- ▶ Easy to add/del/edit programs.
- ▶ Paging all function, 4 player sources provided.
- ▶ Support all formats that can be played in Microsoft media player.



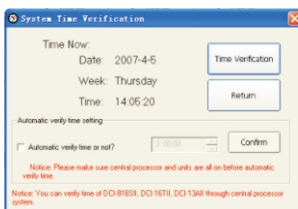
When used with the DSS-AMX16 Audio Matrix, the DSS-CPCoM reveals the source inputs for each of the amplifier output channels. Any of the source inputs can be selected to any of the amplifier outputs, greatly increasing the convenience of operation.



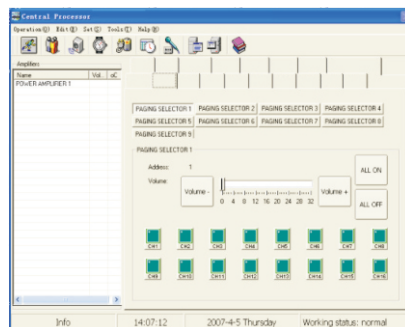
The DSS-PT6 Program Timer works perfectly with the DSS-CPCoM providing optimized control over the PA systems timed events and programs. A quick glance is all that is needed to review channel settings and status.



For speaker zone selection, the DSS-SS416 16-zone speaker selector partners with the DSS-CPCoM allowing convenient labeling and selection of up to 16 speaker zones. All zones can be quickly selected on and off for greater convenience in operation.



System time calibration



Paging selector

## 16 x 16 Audio Matrix DSS-AMX16

### Features:

- ▶ A powerful Audio Matrix to multiple sources distribution with scheduled broadcast.
- ▶ Can be simulated in UI of DSS-CPCoM and achieve central management through RS-485
- ▶ 16 audio inputs and 16 audio outputs.
- ▶ With LCD display for convenient monitoring and controls.
- ▶ Priority bus for zone paging and emergency alarm.



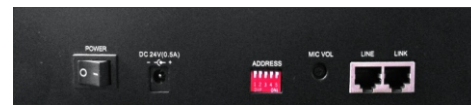
| SPECIFICATIONS      | DSS-AMX16                                                     |
|---------------------|---------------------------------------------------------------|
| Input               | 16 channels: 1 to F inputs, EMC2 (for emergency paging)       |
| Output              | 16 channels: (1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 outputs) |
| Frequency Response  | 60Hz – 16kHz (+/- 3dB)                                        |
| S/N                 | NA                                                            |
| THD                 | NA                                                            |
| Indicators          | LCD display, power LED                                        |
| Protection          | AC Fuse: 0.5A                                                 |
| Power Consumption   | 15–20 watts                                                   |
| Power Requirements  | 110–120V or 220–240V AC, 50/60 Hz; 24VDC                      |
| Dimensions          | 133(H) x 483(W) x 390(D) mm                                   |
| Built-in Dimensions | 3 U rack 19 inch                                              |
| Net Weight          | 7.1kg                                                         |
| Gross weight        | 8.4Kg                                                         |



## Remote Paging Station DSS-RPS16

### Features:

- ▶ Manage up to 8 pcs of DSS-RPS16 for total 128 loudspeaker lines.
- ▶ Communication via maximum 600 meters distance .
- ▶ With CHIME tone settings.
- ▶ All ON/OFF button.



| SPECIFICATIONS      | DSS-RPS16                           |
|---------------------|-------------------------------------|
| Input               | 600 ohms, 5mv un balanced(MIC)      |
| Output              | 10k ohms, 10v balanced              |
| Frequency Response  | MIC,Line: 100Hz –16kHz (+/- 3dB)    |
| S/N                 | Better than 70dB                    |
| THD                 | Less than 0.1% at 1kHz              |
| Indicators          | Indicators for 16 zones and 8 units |
| Protection          | AC Fuse: 0.5A                       |
| Power Consumption   | 5–10 watts                          |
| Power Requirements  | DC 24V                              |
| Dimensions          | 70(H) x 238(W) x 170(D) mm          |
| Built-in Dimensions | NA                                  |
| Net Weight          | 2.3kg                               |
| Gross weight        | 3.2kg                               |



Link with DCS-AMX16 Audio Matrix





## Zone Paging Selector DSS-ZPS16

### Features:

- ▶ 16 zone selectors for paging with 4 priority levels.
- ▶ Up to 8 units can be extended to control over 128 paging zone.
- ▶ Remote paging selection can be achieved by using with maximum 4 DSS-RCS16 CALL STATION.



### SPECIFICATIONS

### DSS-ZPS16

|                     |                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input               | MIC: 600 ohms 5mV , unbalanced, phone jack<br>RMIC 1, 2, 3, 4: 10k ohms 10V , balanced, RJ45<br>LINE In, 10k ohms 330mV , unbalanced<br>PRIORITY IN: 16 channels, 0V short circuit signal |
| Output              | 10k ohms 0.775V (0 dB) , unbalanced<br>PRIORITY OUT: 16 channels, 0V short circuit signal                                                                                                 |
| Frequency Response  | 60Hz – 16kHz (+/- 3dB)                                                                                                                                                                    |
| S/N Ratio           | Better than 70dB                                                                                                                                                                          |
| THD                 | Less than 0.01% at 1kHz                                                                                                                                                                   |
| Zone Controls       | 16 zones, Zone 1 to Zone 16, expandable to 160 zones                                                                                                                                      |
| Muting Function     | MIC1 overrides other input signals except LINE 1                                                                                                                                          |
| Controls            | 2 volume control button vol+, vol-, 16 channel selectors, 1 power control, all on, all off, address setting, tone switch, MIC volume control, CHIME volume control, main power switch     |
| Indicators          | 16 Zone LEDs, Power LED                                                                                                                                                                   |
| Protection          | AC Fuse: 0.5A                                                                                                                                                                             |
| Power Consumption   | 10–15 watts                                                                                                                                                                               |
| Power Requirements  | AC 220V ± 10% 50–60Hz; 24VDC                                                                                                                                                              |
| Dimensions          | 89(H) x 483(W) x 350(D) mm                                                                                                                                                                |
| Built-in Dimensions | 2 U rack 19 inch                                                                                                                                                                          |
| Net Weight          | 5.42kg                                                                                                                                                                                    |

## Remote Paging Station DSS-RCS16

### Features:

- ▶ Works together with DSS-ZPS16.
- ▶ Reliable control by firm hard button.
- ▶ Can connect to additional paging mics.
- ▶ Address selector provides for accessing additional paging selectors.
- ▶ LINE IN for connection to audio source.
- ▶ Control up to 8pcs of
- ▶ Balanced signal input for quality and distant transmission up to 600m.



### SPECIFICATIONS

### DSS-RCS16

|                    |                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Mic Input          | 600 ohms, 5mv un balanced                                                                                                                          |
| Line input         | 10k ohms, 10v balanced                                                                                                                             |
| Frequency Response | MIC, Line: 60Hz – 16kHz (+/- 3dB)                                                                                                                  |
| S/N Ratio          | Better than 70dB                                                                                                                                   |
| THD                | Less than 0.1% at 1kHz                                                                                                                             |
| Zone Controls      | 16 zones, Zone 1 to Zone 16, up to 128 zones w/ address selector                                                                                   |
| Controls           | Volume control, 8 zone paging selectors, 16 channel selectors, all on, all off, power switch, address setting, 1 tone controller, 1 MIC controller |
| Indicators         | Indicators for 16 zones and 8 speaker selectors, MIC on/off                                                                                        |
| Protection         | AC Fuse: 0.5A                                                                                                                                      |
| Power Consumption  | 5–10 watts                                                                                                                                         |
| Power Requirements | AC 220V ± 10% 50–60Hz                                                                                                                              |
| Dimensions         | 70(H) x 238(W) x 170(D) mm                                                                                                                         |
| Net Weight         | 2.3kg                                                                                                                                              |
| Gross Weight       | 3.2kg                                                                                                                                              |



## Pre - Amplifier

## DSS-PREM10



### Features:

- Provides versatile inputs to connect with external audio sources.
- With priority settings for inputs.
- Can be worked with DSS-EMP3 to deliver emergency announcement.
- Individual gain control for inputs with master volume control.
- Bass and Treble adjustment.
- With 7-band Equalizer.



### SPECIFICATIONS

### DSS-PREM10

|                       |                                                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input                 | MIC 1, 2, 3, 4, 5: 600 ohms, 5mV, unbalanced, phone jack<br>AUX 1, 2, 3, 10k ohms, 330mV, unbalanced, RCA jack<br>Aux3: 10k ohms, 10V balanced<br>EMC 1, 2: 10k ohms, 330mV, unbalanced, phone jack |
| Output                | 10k ohms, 775mV, 0 dB, unbalanced, RCA jack<br>1 trigger out                                                                                                                                        |
| Frequency Response    | 60Hz – 16kHz (+/- 3dB)                                                                                                                                                                              |
| S/N Ratio             | Better than 70dB                                                                                                                                                                                    |
| THD                   | Less than 0.01% at 1kHz                                                                                                                                                                             |
| Master Volume Control | 32 steps, digital control                                                                                                                                                                           |
| Muting Function       | MIC1 has the highest priority overrides all other inputs. EMC1 and EMC2 have the second highest priority override other inputs.                                                                     |
| Controls              | 8 input volume controls, 2 output volume controllers (VOL+, VOL-), 1 power switch, 7 band equalizer                                                                                                 |
| Indicators            | Power LED                                                                                                                                                                                           |
| Protection            | AC Fuse: 0.5A                                                                                                                                                                                       |
| Power Consumption     | 10-15 watts                                                                                                                                                                                         |
| Power Requirements    | AC 220V ± 10% 50-60Hz; 24VDC                                                                                                                                                                        |
| Dimensions            | 89(H) x 483(W) x 350(D) mm                                                                                                                                                                          |
| Net Weight            | 5.1kg                                                                                                                                                                                               |
| Gross Weight          | 6.3kg                                                                                                                                                                                               |

## Emergency Panel

## DSS-EMP3



### Features:

- Delivering alarming sound when it is triggered by external signal or manually control.
- Voice message can be recorded in built-in memory by using microphone or other audio sources.
- It is designed to work with DSS-ZPS16, DSS-PREM10, and DSS-SS416.



### SPECIFICATIONS

### D-EMP3

|                     |                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------|
| Input               | MIC : 5mV , 600 ohms, unbalanced<br>LINE: 330mV , 10k ohms, unbalanced                                        |
| Output              | 10k ohms 330mV (0 dB) , unbalanced                                                                            |
| Frequency Response  | Alarm siren or record: 100 Hz ~ 3.4k Hz (+ / - 3 dB)<br>MIC input or audio input: 60 Hz ~ 16k Hz (+ / - 3 dB) |
| THD                 | Less than 0.01% at 1kHz                                                                                       |
| ADC/DAC             | Sampling frequency: 8kHz, 5-bit;                                                                              |
| Controls            | Play/rec controls, volume, rec level and power                                                                |
| Alarm Activation    | 0V Short Circuit Signal                                                                                       |
| Recording Time      | MSG 1, MSG 2, False Alarm 60 up to 60 Seconds Each                                                            |
| Protection          | AC Fuse: 0.5A                                                                                                 |
| Power Consumption   | 10-15 watts                                                                                                   |
| Power Requirements  | AC 220V + / - 10% 50-60Hz; 24VDC                                                                              |
| Dimensions          | 89(H) x 483(W) x 350(D) mm                                                                                    |
| Built-in Dimensions | 2 U rack 19 inch                                                                                              |
| Net Weight          | 4.8Kg                                                                                                         |
| Gross Weight        | 6.0kg                                                                                                         |
| Finish              | Black                                                                                                         |

## 16 Channel Monitor Panel

## DSS-CMP16

### Features:

- ▶ Monitor up to 16 loudspeaker lines with built-in high fidelity loudspeaker.
- ▶ With LCD display to show level meter of 16 loudspeaker lines.
- ▶ Volume of monitoring can be adjusted.
- ▶ Menu control over loudspeaker line selection and volume level.



### SPECIFICATIONS

### DSS-CMP16

|                   |                                                      |
|-------------------|------------------------------------------------------|
| Input             | 70/100V audio signal                                 |
| Trigger Out       | 0V signal for Power activation                       |
| Monitor Speaker   | Built-in stereo HiFi full range speaker, power>500mW |
| Controls          | 1 Power switch, 2 volume controls                    |
| Protection        | AC Fuse: 0.5A                                        |
| Volume Level      | 7 levels, controllable by DCI-100 II computer        |
| Power Consumption | 10-15 watts                                          |
| Net weight        | 5.1Kg                                                |
| Dimensions        | 89(H) x 483(W) x 350(D) mm                           |

## 4 x 4 Audio Matrix

## DSS-SS416

### Features:

- ▶ A 4 X 4 Matrix managing 16 loudspeaker line outputs with priority override settings.
- ▶ Can be simulated into DSS-CPCoM control UI.
- ▶ With 1.5KW per loudspeaker line power handling.
- ▶ Support 4 audio source and 4 alarm inputs.



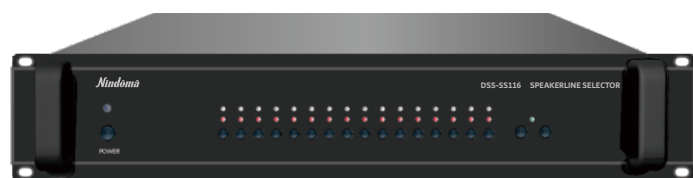
### SPECIFICATIONS

### DSS-SS416

|                    |                                                                                                                             |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Input              | 4 program and 4 priority channels, 70/100V audio signal                                                                     |
| Speaker Output     | 4 groups of 4 zones, 70/100V audio signal                                                                                   |
| Power handling     | 3KW total capacity, max 1.5 KW per channel                                                                                  |
| Alarm Output       | 0V signal                                                                                                                   |
| Controls           | power switch, 16 pushbutton zone selectors, 3 menu buttons (UP, DOWN, ENTER), all on and all off, address setting (1 digit) |
| Power Requirements | AC 220V $\pm$ 10% 50-60Hz; 24VDC                                                                                            |
| Dimensions         | 133(H) x 483(W) x 390(D) mm                                                                                                 |

## Speakerline Selector

## DSS-SS116



### SPECIFICATIONS

### DSS-SS116

|                    |                                              |
|--------------------|----------------------------------------------|
| Input              | 70/100V audio signal                         |
| Output             | Output maximum for each zone: 150W           |
| Priority Bus       | 16 channels activated by 0V signal           |
| Power Handling     | 1.5kw total capacity                         |
| Alarm Output       | 0V signal                                    |
| Controls           | 16 pushbutton zone selectors, 1 power switch |
| Power Requirements | AC 220V $\pm$ 10% 50-60Hz; 24VDC             |
| Dimensions         | 89(H) x 483(W) x 350(D) mm                   |

### Features:

- ▶ 16 loudspeaker line selector.
- ▶ Power handling of each zone achieve 1.5kW.
- ▶ One audio input and one alarm input.
- ▶ With ALL ON/OFF selector.

## Programmable Timer

### DSS-PT6

#### Features:

- ▶ A Programmable power supply activating timer.
- ▶ Provide power source for up to 6 devices.
- ▶ Scheduled task settings for AUTO power activating management.
- ▶ D-T6 can optionally work with the D-ACPS16 power sequencer .



#### SPECIFICATIONS

#### DSS-PT6

|                   |                                                                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Power Output      | Power of each channel AC220V/1A                                                                                                             |
| Audio Output      | Chime signal                                                                                                                                |
| Alarm In/Out      | 0V, short circuit signal                                                                                                                    |
| Controls          | 3 menu operation buttons, 1 power switch, 6 manual channel selectors (CH1 ~ CH5, TIMER), 1 address setting (1 digit), 1 connection terminal |
| Indicators        | POWER, CH1 ~ CH5, TIMER                                                                                                                     |
| Power Consumption | 10-15 watts                                                                                                                                 |
| Power supply      | AC 220V +/- 10% 50-60Hz; 24VDC                                                                                                              |
| Dimensions        | 89(H) x 483(W) x 350(D) mm                                                                                                                  |
| Net Weight        | 5.2kg                                                                                                                                       |

## Telephone Interface

### DSS-TLI



#### Features:

- ▶ Automatically answer incoming call and proceed broadcast through voice guide operation.
- ▶ ALL CALL or Zone Paging.
- ▶ Can connect to microphone input for intercommunicating with caller.
- ▶ Support remote start up and triggering through telephone.
- ▶ AUTO mode and MANUAL mode selectable.
- ▶ Built-in monitor loudspeaker for monitoring and volume is adjustable.

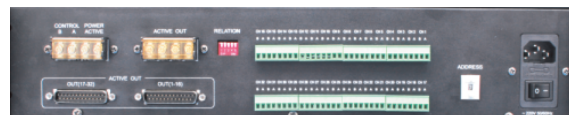
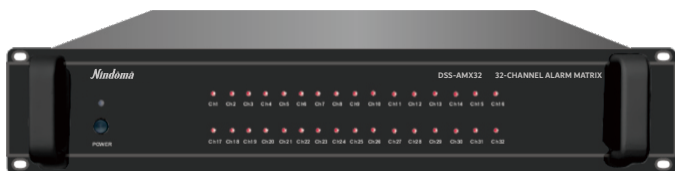
#### SPECIFICATIONS

#### DSS-TLI

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Input              | TEL: RJ-11 connector; MIC: 400-775mV(0dB)                    |
| Output             | Audio Output: 10mV-330V; Active Out: 0V short circuit signal |
| Phone Monitor      | Built-in stereo HiFi full range speaker, power > 100mW       |
| Ring times         | 2-5 times                                                    |
| Protection         | AC Fuse: 0.5A                                                |
| Power Consumption  | 10-15 watts                                                  |
| Power Requirements | AC 220V +/- 10% 50-60Hz; 24VDC                               |
| Dimensions         | 89(H) x 483(W) x 350(D) mm                                   |

## 32-Channel Alarm Matrix

### DSS-AMX32



#### Features:

- ▶ 32 contacts I/O interfacing with FIRE ALARM system for emergency triggering.
- ▶ Support up to 9 adjacent zones of alarm setting.
- ▶ Can be monitored by DSS-CPCOM through RS-485 interface.

#### SPECIFICATIONS

#### DSS-AMX32

|                      |                                                                                 |
|----------------------|---------------------------------------------------------------------------------|
| Input                | 32 channel alarm signals, 0V                                                    |
| Output               | 32 channels divided into 2 groups of 16, 0V Active out: 0V short circuit signal |
| Adjacent Zones Range | 0, +/- 1, +/- 2, +/- 3, +/- 4                                                   |
| Controls             | Power switch, address setting dip, and adjacent zone selector,                  |
| Indicators           | POWER indicator, CH1 ~ CH32 alarm status indicators                             |
| Protection           | AC Fuse: 0.5A                                                                   |
| Power Consumption    | 15-20 watts                                                                     |
| Power Requirements   | AC 220V +/- 10% 50-60Hz; 24VDC                                                  |
| Dimensions           | 89(H) x 483(W) x 350(D) mm                                                      |
| Built-in Dimensions  | 2 U rack 19 inch                                                                |
| Net Weight           | 5.2Kg                                                                           |
| Gross Weight         | 6.4Kg                                                                           |



## 16 Channel 24 VDC Supply DSS-PSU16

### Features:

- ▶ Manage 16 loudspeaker line overriding Public Address broadcast by output 24 VDC .
- ▶ Activated by a 16-channel input and the input alarm signals control the 24V power source outputs.
- ▶ Can work with volume control and other emergency activating devices.

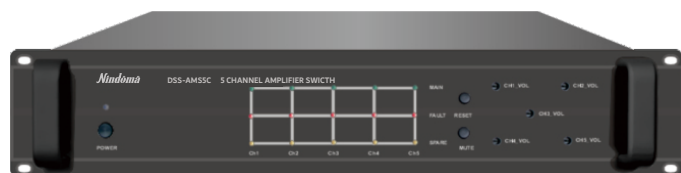


### SPECIFICATIONS

### DSS-PSU16

|                    |                                      |
|--------------------|--------------------------------------|
| Output             | 16 channels 24V DC, 1A               |
| trigger out        | Low level(0V)or short circuit signal |
| Controls           | Power switch and address dip setting |
| Indicators         | POWER,CH1 ~ Ch16                     |
| Protection         | AC fuse: 6A                          |
| Power Requirements | AC 220V + / - 10% 50-60Hz;24VDC      |
| Dimensions         | 133(H) x 483(W) x 390(D) mm          |
| Net Weight         | 9.1kg                                |

## 5 Channel Amplifier Switth DSS-AMS5C



### Features:

- ▶ Main/Backup Power Amplifier switch.
- ▶ Automatically switch to backup amplifier when amplifier failure is detected.
- ▶ It can manually operate for power amplifier upgrade and maintenance.
- ▶ Manage 10 amplifiers and backup strategy is programmable.
- ▶ Each channel has a volume control, manual switch, and status indicator.

### SPECIFICATIONS

### DSS-AMS5C

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| Input                 | 6audio source channels; 5 main amplifier channels                                          |
| Output                | 5 speaker channels                                                                         |
| Check Cycle           | Input: 50mV 20mS; Output: 100mV 20mS                                                       |
| Channel Switching Cap | 150V/20A, audio signal                                                                     |
| Controls              | 1 power switch,1 reset button,1 alarm tone control,5 volume controls,1 address setting dip |
| Indicators            | POWER, CH1 ~ CH5 NORMAL indicators,CH1 ~ CH5 FAULT indicators,CH1 ~ Ch5 SWITCH indicators  |
| Protection            | AC fuse: 0.5A                                                                              |
| Power Requirements    | AC 220V + / - 10% 50-60Hz;24VDC                                                            |
| Dimensions            | 89(H) x 483(W) x 350(D) mm                                                                 |

## Lightning Isolator DSS-LIS04

### Features:

- ▶ Preventing device from electronic shock by isolating loudspeaker line.
- ▶ 4 independent channels enable up to 20A protection per loudspeaker line.



### SPECIFICATIONS

### DSS-LIS04

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| Input                   | 4 CHANNELS(CH1 ~ Ch4) 70V/100V audio signal               |
| Output                  | 4 channels,70/100V,20A,audio signal,Active out: 0V signal |
| Lightning Protection    | IEC529/EN60 529 protection grade satisfied: IP 20         |
| Overload Protection     | 165-300V, peak                                            |
| Rated Discharge Current | 30kA                                                      |
| Leak Protection Current | 10mA                                                      |
| Power Requirements      | AC220V + / - 10% 50-60Hz;24VDC                            |
| Dimensions              | 89(H) x 483(W) x 350(D) mm                                |
| Net weight              | 7.9kg                                                     |

Power Sequencer

DSS-PSQ16



Features:

- ▶ Manage power supply for up to 16 system components in orders.
- ▶ AC mains overload preventing.
- ▶ Total capacity support 2 kW.
- ▶ Can be worked with DSS-PT6.

| SPECIFICATIONS     | DSS-PSQ16                   |
|--------------------|-----------------------------|
| Channels           | 16 CHANNELS (CH1~CH16)      |
| Input              | AC220V, 20A                 |
| Output             | 280W/ Channel               |
| Sequence Interval  | 0.4S ~ 0.5S                 |
| Power Handling     | 2kW total capacity          |
| Controls           | Power ON/OFF switch         |
| Power Consumption  | 25-30W                      |
| Indicators         | POWER,CH1 ~ CH16,TIMER      |
| Power Requirements | AC 220V +/- 10% 50-60Hz     |
| Dimensions         | 133(H) x 483(W) x 390(D) mm |

Power Amplifier

DSS-PAM (360/460/660)

Features:

- ▶ Ranging from 360W to 660W power capacity.
- ▶ Reliable and mature technology prevent device from overheat.
- ▶ Selectable output: 100V, 70V and 4-16 Ohm.
- ▶ Loudspeaker output with short circuit protection .



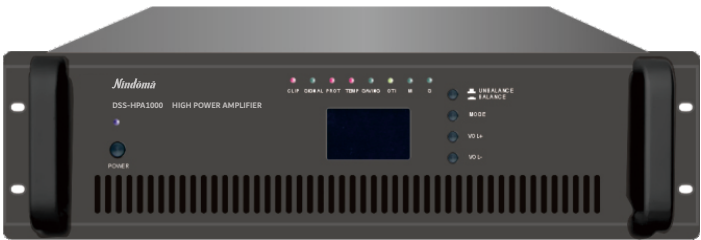
REAR PANEL

| SPECIFICATIONS     | DSS-PAM360                                                                                    | DSS-PAM460                                                                                    | DSS-PAM660                                                                                   |
|--------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Rated Power Output | 360W                                                                                          | 460W                                                                                          | 660W                                                                                         |
| Output Regulation  | Less than 3 dB (no load to full load)                                                         |                                                                                               |                                                                                              |
| Speaker Output     | 13.6 ohms (70V), balanced<br>27.8 ohms (100V), balanced<br>Low impedance: 4-16 ohms, balanced | 10.7 ohms (70V), balanced<br>21.7 ohms (100V), balanced<br>Low impedance: 4-16 ohms, balanced | 7.4 ohms (70V), balanced<br>15.1 ohms (100V), balanced<br>Low impedance: 4-16 ohms, balanced |
| Input              | Less than 1V, unbalanced, 10k ohms, XLR and phone jack                                        |                                                                                               |                                                                                              |
| Output             | 10k ohms,0.775V, 0dB, XLR and phone jack                                                      |                                                                                               |                                                                                              |
| Frequency Response | 60 - 15,000 Hz, +/- 3dB                                                                       |                                                                                               |                                                                                              |
| THD                | Less than 0.5% at 1kHz (1/3 Rated Power)                                                      |                                                                                               |                                                                                              |
| S/N Ratio          | Better than 70dB                                                                              |                                                                                               |                                                                                              |
| Slew Rate          | 15V/uS                                                                                        |                                                                                               |                                                                                              |
| Controls           | Volume control and power switch                                                               |                                                                                               |                                                                                              |
| Cooling            | Internal 12VDC fan, extensive heat sinking                                                    |                                                                                               |                                                                                              |
| Indicators         | Power, Clip, Signal, Protect, and Temp LEDs                                                   |                                                                                               |                                                                                              |
| Protection         | AC Fuse: 10A<br>Current limiter, short circuit and thermal protection circuits                | AC Fuse: 12A<br>Current limiter, short circuit and thermal protection circuits                | AC Fuse: 15A                                                                                 |
| Power Consumption  | 485W                                                                                          | 620W                                                                                          | 880W                                                                                         |
| Power Requirements | AC 220V ± 10% 50-60Hz                                                                         | AC 220V ± 10% 50-60Hz                                                                         | AC 220V ± 10% 50-60Hz                                                                        |
| Dimensions         | 133(H) x 496(W) x 483(D) mm                                                                   |                                                                                               |                                                                                              |
| Net Weight         | 15.5kg                                                                                        | 18.1kg                                                                                        | 20.1kg                                                                                       |
| Gross Weight       | 17.1kg                                                                                        | 19.7kg                                                                                        | 21.7kg                                                                                       |

High Power Amplifier DSS-HPA(1000/1500)

Features:

- ▶ Ranging from 1000W to 1500W power capacity.
- ▶ Reliable and mature technology prevent device from overheat.
- ▶ Selectable output: 100V, 70V and 4–16 Ohm.
- ▶ Loudspeaker output with short circuit protection.



| SPECIFICATIONS     | DSS-HPA1000                                                                                  | DSS-HPA1500                                                                                 |
|--------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Rated Power Output | 1000W                                                                                        | 1500W                                                                                       |
| Output Regulation  | Less than 3 dB (no load to full load)                                                        |                                                                                             |
| Speaker Output     | 4.9 ohms (70V), balanced<br>10.0 ohms (100V), balanced<br>Low impedance: 4–16 ohms, balanced | 3.3 ohms (70V), balanced<br>6.7 ohms (100V), balanced<br>Low impedance: 4–16 ohms, balanced |
| Input              | Less than 1V, unbalanced, XLR and phone jack                                                 |                                                                                             |
| Output             | 775V, 0dB, XLR and phone jack                                                                |                                                                                             |
| Frequency Response | 50 – 18,000 Hz, +/- 1.5dB                                                                    |                                                                                             |
| THD                | Less than 0.5% at 1kHz (1/3 Rated Power)                                                     |                                                                                             |
| S/N Ratio          | Better than 105dB                                                                            |                                                                                             |
| Slew Rate          | 40V/uS                                                                                       |                                                                                             |
| Controls           | Volume control and power switch                                                              |                                                                                             |
| Cooling            | Internal 12VDC fan, extensive heat sinking                                                   |                                                                                             |
| Indicators         | Power, Clip, Signal, Protect, and Temp LEDs                                                  |                                                                                             |
| Protection         | AC Fuse: 20A<br>Current limiter, short circuit and thermal protection circuits               | AC Fuse: 25A<br>Current limiter, short circuit and thermal protection circuits              |
| Power Consumption  | 1350W                                                                                        | 2000W                                                                                       |
| Power Requirments  | AC 220V ± 10% 50–60Hz                                                                        |                                                                                             |
| Dimensions         | 133(H) x 486(W) x 483(D) mm                                                                  |                                                                                             |
| Net Weight         | 25.8kg                                                                                       | 25.8kg                                                                                      |
| Gross Weight       | 28.1kg                                                                                       | 38.1kg                                                                                      |



REAR PANEL

## Class D Mixer Amplifier with Audio Sources

**Mixer Amp with Built-in USB/SD/AUX/Tuner/Bluetooth and optional DSP / Dante Network**

**MPA-MAD120BP @ 120W RMS Power**  
**MPA-MAD240BP @ 240W RMS Power**  
**MPA-MAD350BP @ 350W RMS Power**  
**MPA-MAD500BP @ 500W RMS Power**

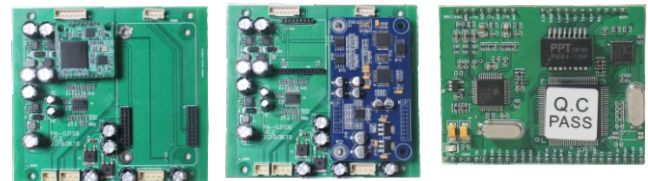


### Note:

**MPA-DANTE :**  
 Optional Dante Audio module for MPA-MAD120BP series to Order  
**MPA-DSP :**  
 Optional DSP module for MPA-MAD120BP series to Order  
**MPA-IP :**  
 Optional IP module for MPA-MAD120BP series to Order  
**MPA-SIP :**  
 Optional SIP module for MPA-MAD120BP series to Order

### Description:

Highly flexible mixer amplifiers available at 120, 240, 350 and 500W RMS power and equipped with all necessary microphone and aux inputs for a wide variety of voice and background music applications such as retail shops, restaurants and bars, service centers, houses of worship, warehouses and many more.



MPA-DANTE

MPA-DSP

MPA-IP / MPA-SIP

### Features:

- ▶ Priority:EMC > MIC1>MIC2, MIC3, AUX1, AUX2
- ▶ 4 microphone and 2 auxiliary inputs
- ▶ 1 Dante Audio and 1 DSP control inputs
- ▶ 100V and 4-16 Ohms rear panel switchable speaker outputs
- ▶ Automatic mute function for paging and announcements
- ▶ Individual input gain controls with master volume control
- ▶ Mp3/TUNER/Bluetooth module with screen display
- ▶ 24VDC backup power supply
- ▶ Standard 1U 19 inch size with detachable mounting ears
- ▶ Speaker output short circuit protection



| SPECIFICATIONS      | MPA-MAD120BP                                                   | MPA-MAD240BP | MPA-MAD350BP | MPA-MAD500BP |
|---------------------|----------------------------------------------------------------|--------------|--------------|--------------|
| Rated Power Output  | 120W                                                           | 240W         | 350W         | 500W         |
| Output              | 100V or 4 - 16 ohm switchable                                  |              |              |              |
| Frequency Response  | 60 - 16,000 Hz, +/- 3dB                                        |              |              |              |
| THD                 | Less than 0.5% at 1kHz (1/3 Rated Power)                       |              |              |              |
| S/N Ratio           | Better than 80dB                                               |              |              |              |
| Tone Controls       | BASS: 100 Hz (+/- 10dB), TREBLE: 10k Hz (+/- 10dB)             |              |              |              |
| Controls            | All input gain, 1 treble, 1 bass, 1 mute, and power switch     |              |              |              |
| Cooling             | Internal 12VDC fan, extensive heat sinking                     |              |              |              |
| Indicators          | Power indicator LED, PROT, 100V, 4-16 OHM, CLIP, SIG           |              |              |              |
| Protection          | Current limiter, short circuit and thermal protection circuits |              |              |              |
| Power Consumption   | 170W                                                           | 340W         | 500W         | 720W         |
| Power Requirments   | 220-240V AC, 50/60 Hz; 24VDC                                   |              |              |              |
| Dimensions          | 44.5(H) x 483(W) x 330(D) mm                                   |              |              |              |
| Built-in Dimensions | 1 U rack 19 inch                                               |              |              |              |
| Net Weight          | 5.6kg                                                          | 5.6kg        | 5.7kg        | 5.7kg        |
| Finish              | Panel: Aluminium plate, black<br>Case: steel plate, black      |              |              |              |



Class D Mixer Amplifier with Audio Sources

Mixer Amp with Built-in USB/SD/AUX/Tuner/Bluetooth  
High Performing



DIGITAL AMP



DSP



LIGHTWEIGHT



Bluetooth



Description:

Highly flexible mixer amplifiers available at 120, 240, 350 and 500W RMS power and equipped with all necessary microphone and aux inputs for a wide variety of voice and background music applications such as retail shops, restaurants and bars, service centers, houses of worship, warehouses and many more.

- MPA-MAD120 @ 120W RMS Power
- MPA-MAD240 @ 240W RMS Power
- MPA-MAD350 @ 350W RMS Power
- MPA-MAD500 @ 500W RMS Power

Features:

- ▶ Priority:EMC >MIC1>MIC2, MIC3, AUX1, AUX2
  - ▶ 4 microphone and 2 auxiliary inputs
  - ▶ With Phantom power supply to mics
  - ▶ 100V and 4-16 Ohms rear panel switchable speaker outputs
  - ▶ Automatic mute function for paging and announcements
- ▶ Individual input gain controls with master volume control
  - ▶ Mp3/TUNER/Bluetooth module with screen display
  - ▶ Light weight design
  - ▶ Standard 1U 19 inch size with detachable mounting ears
  - ▶ Speaker output short circuit protection

| SPECIFICATIONS      | MPA-MAD120                                                     | MPA-MAD240 | MPA-MAD350 | MPA-MAD500 |
|---------------------|----------------------------------------------------------------|------------|------------|------------|
| Rated Power Output  | 120W                                                           | 240W       | 350W       | 500W       |
| Output              | 100V or 4 – 16 ohm switchable                                  |            |            |            |
| Frequency Response  | 60 – 16,000 Hz, +/- 3dB                                        |            |            |            |
| THD                 | Less than 0.5% at 1kHz (1/3 Rated Power)                       |            |            |            |
| S/N Ratio           | Better than 80dB                                               |            |            |            |
| Tone Controls       | BASS: 100 Hz (+/- 10dB), TREBLE: 10k Hz (+/- 10dB)             |            |            |            |
| Controls            | All input gain, 1 treble, 1 bass, 1 mute, and power switch     |            |            |            |
| Cooling             | Internal 12VDC fan, extensive heat sinking                     |            |            |            |
| Indicators          | Power indicator LED, PROT, 100V, 4-16 OHM, CLIP, SIG           |            |            |            |
| Protection          | Current limiter, short circuit and thermal protection circuits |            |            |            |
| Power Consumption   | 170W                                                           | 340W       | 500W       | 720W       |
| Power Requirments   | 220-240V AC, 50/60 Hz                                          |            |            |            |
| Dimensions          | 44.5(H) x 483(W) x 330(D) mm                                   |            |            |            |
| Built-in Dimensions | 1 U rack 19 inch                                               |            |            |            |
| Net Weight          | 5.6kg                                                          | 5.6kg      | 5.7kg      | 5.7kg      |
| Finish              | Panel: Aluminium plate, black<br>Case: steel plate, black      |            |            |            |

## Micrhophone

### ADS-DM01

- Fashionable outlook
- Built-in 2 chime tone
- Red LED indicator



### ADS-DM02

- Dynamic microphone
- No power is required
- With No/off switch



### ADS-DM03F

- Fashionable outlook
- Red LED indicator



| MODEL              | ADS-DM01   | ADS-DM02   | ADS-DM03F                |
|--------------------|------------|------------|--------------------------|
| Capsule Type       | Condenser  | Dynamic    | Condenser                |
| Frequency Response | 40Hz-16KHz | 50Hz-12KHz | 20Hz-20KHz               |
| Polar Pattern      | Cardiod    | Cardiod    | Cardiod                  |
| Output Impedance   | 200 ohms   | 600 ohms   | 75 ohms                  |
| Sensitivity        | -43dB      | -46dB      | -43dB                    |
| Power Requirements | 12VDC      | NO need    | DC3V / 48V phantom power |
| Product Weight     | 1Kg        | 1.2Kg      | 1 Kg                     |

### ADS-DM04

- Adjustable Mic gooseneck
- Programmable chime
- Red Ring and base LED indicator



### ADS-HMS26

- Flexible microphone stand
- Table type
- 26cm Long



### ADS-HM100

- Unique Voice coil with echo suppression technology
- Suitable for live performance



| MODEL              | ADS-DM04       | ADS-HMS26 | ADS-HM100  |
|--------------------|----------------|-----------|------------|
| Capsule Type       | Condenser      | NA        | Dynamic    |
| Frequency Response | 40Hz-17KHz     | NA        | 50Hz-16KHz |
| Polar Pattern      | Supper Cardiod | NA        | Cardiod    |
| Output Impedance   | 200 ohms       | NA        | 600 ohms   |
| Sensitivity        | -32dB          | NA        | -46dB      |
| Power Requirements | 9VDC/230VAC    | NA        | NA         |
| Product Weight     |                | 1.5Kg     | 0.6Kg      |

## Remote Paging Station

## DSS-RPS16

### Features:

- Manage up to 8 pcs of DSS-RPS16 for total 128 loudspeaker lines.
- Communication via maximum 600 meters distance .
- With CHIME tone settings.
- All ON/OFF button.



600 M



### SPECIFICATIONS

### DSS-RPS16

|                     |                                     |
|---------------------|-------------------------------------|
| Input               | 600 ohms, 5mv un balanced(MIC)      |
| Output              | 10k ohms, 10v balanced              |
| Frequency Response  | MIC,Line: 100Hz ~16kHz (+/- 3dB)    |
| S/N                 | Better than 70dB                    |
| THD                 | Less than 0.1% at 1kHz              |
| Indicators          | Indicators for 16 zones and 8 units |
| Protection          | AC Fuse: 0.5A                       |
| Power Consumption   | 5-10 watts                          |
| Power Requirements  | DC 24V                              |
| Dimensions          | 70(H) x 238(W) x 170(D) mm          |
| Built-in Dimensions | NA                                  |
| Net Weight          | 2.3kg                               |
| Gross weight        | 3.2kg                               |

Link with DSS-AMX16 Audio Matrix



## Push-to-talk Microphone

## ADS-PTM2

### Description:

Designed to provide low-impedance and dynamic microphone for public and page systems, ADS-PTM 2 handheld microphone provides clear, natural sound with highly reliable performance. The ADS-PTM 2, which provides a three-core cable (one-core protection) and a reliable press-in transfer switch for continuous operation in harsh environments, can operate in a noisy environment.

Also, advanced ABS shell can resist mechanical vibration and sway, and prevent to be affected in the oil, smoke, salt, ultraviolet radiation and corrosion environment.

### Features :

- Steady extended frequency response provides
- high-performance sound response.
- Press-type transfer switches provide significant
- reliability even in extremely harsh environments.
- Tough ABS shell
- Long-life rubber sleeve, coiled cable
- A suitable button hook device is provided on the
- back of the microphone.



### SPECIFICATIONS

### ADS-PTM2

|                       |                           |
|-----------------------|---------------------------|
| Type                  | Dynamic                   |
| Sensitivity           | -72 ± 3dB (1K Hz)         |
| Impedance             | 500 Ω                     |
| Frequency response    | 100~6000Hz                |
| Cable extended length | 2000mm                    |
| Enclosure material    | ABS plastic, rough, black |
| Trademark             | Aluminum plate            |
| Net weight            | 20g                       |

## ADS-PTM1

Designed to provide low-impedance and dynamic microphone for public and page systems, ADS-PTM1 handheld microphone provides clear, natural sound with highly reliable performance. The ADS-PTM1, which provides a three-core cable (one-core protection) and a reliable press-in transfer switch for continuous operation in harsh environments, can operate in a noisy environment.

- ▶ Superior voice reproduction
- ▶ User-friendly operation
- ▶ Durable construction
- ▶ Dynamic transduce
- ▶ Remote switching contact



OGB=lvubar

| x (log scale) | y (OGB=lvubar) |
|---------------|----------------|
| 20            | -95            |
| 50            | -95            |
| 100           | -85            |
| 200           | -80            |
| 500           | -80            |
| 1K            | -75            |
| 2K            | -65            |
| 5K            | -70            |
| 10K           | -85            |
| 20K           | -95            |

| SPECIFICATIONS        | ADS-PTM1                       |
|-----------------------|--------------------------------|
| Type                  | Dynamic                        |
| Sensitivity           | 0° -77dB±3dB(0dB=1v/ubar 1KHz) |
| Impedance             | 500Ω±30% at 1KHz               |
| Frequency response    | 50Hz~15KHz See response curve  |
| Cable extended length | 2000mm                         |
| Enclosure material    | ABS plastic, rough, black      |
| Trademark             | Aluminum plate                 |
| Net weight            | 30g                            |



## Ceiling Speaker

## SP-5FCS / SP-6FCS / SP-8FCS



- Fast installation range of speaker
- Full range yet high quality music and speech reproduction

| MODEL              | SP-5FCS         | SP-6FCS         | SP-8FCS         |
|--------------------|-----------------|-----------------|-----------------|
| Power at 100V      | 3/6W            | 3/6W            | 5/10W           |
| Power at 70V       | 1.5/3W          | 1.5/3W          | 2.5/5W          |
| SPL( 1W/1M)        | 92dB            | 92dB            | 92dB            |
| Max SPL@ 1M        | 99dB            | 99dB            | 101 dB          |
| Freq. Response     | 100Hz-16KHz     | 100Hz-18KHz     | 100Hz-18KHz     |
| Cutout Size        | Dia 150mm       | Dia 170mm       | Dia 210mm       |
| Product Size       | Dia 175x60mm(H) | Dia 185x75mm(H) | Dia 230x90mm(H) |
| Installation       | Inceiling       | Inceiling       | Inceiling       |
| Enclosure Material | ABS             | ABS             | ABS             |
| Weight             | 0.5Kg           | 0.7Kg           | 1 Kg            |
| Finish             | White           | White           | White           |
| Speakers           | 5"x1 full range | 6"x1 full range | 8"x1 full range |

## Ceiling Speaker

## SP-C536MT / SP-C636MT

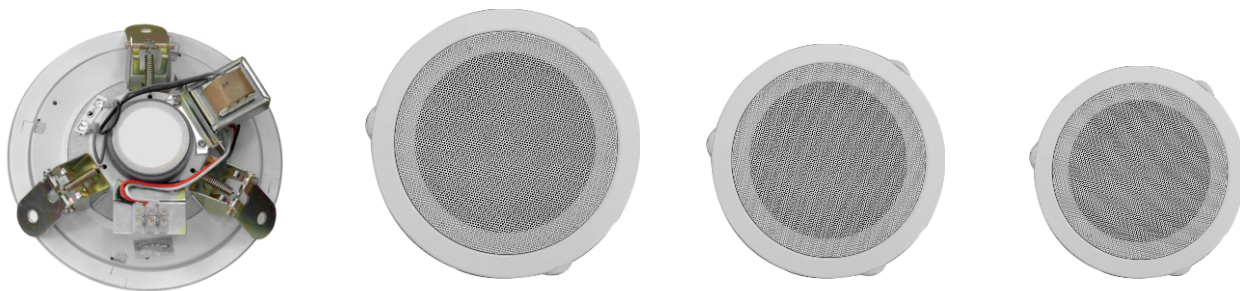
- T means with Tweeter



| MODEL              | SP-C536MT                 | SP-C636MT                 |
|--------------------|---------------------------|---------------------------|
| Power at 100V      | 3/6W                      | 5/10W                     |
| Power at 70V       | 1.5/3W                    | 2.5/5W                    |
| SPL( 1W/1M)        | 92dB                      | 92dB                      |
| Max SPL@ 1M        | 99dB                      | 101 dB                    |
| Freq. Response     | 100Hz-18KHz               | 100Hz-18KHz               |
| Cutout Size        | Dia 170mm                 | Dia 220mm                 |
| Product Size       | Dia 200x67mm(H)           | Dia 245x75mm(H)           |
| Installation       | Inceiling                 | Inceiling                 |
| Enclosure Material | Metal                     | Metal                     |
| Weight             | 0.75Kg                    | 1 Kg                      |
| Finish             | White                     | White                     |
| Speakers           | 1" x1 (TREBLE) 5"x1(BASS) | 1" x1 (TREBLE) 6"x1(BASS) |

## Ceiling Speaker

## SP-C436M / SP-C536M / SP-C636M



| MODEL              | SP-C436M        | SP-C536M        | SP-C636M        |
|--------------------|-----------------|-----------------|-----------------|
| Power at 100V      | 3/6W            | 3/6W            | 3/6W            |
| Power at 70V       | 1.5/3W          | 1.5/3W          | 1.5/3W          |
| SPL( 1W/1M)        | 91dB            | 91dB            | 91dB            |
| Max SPL@ 1M        | 98dB            | 98dB            | 98dB            |
| Freq. Response     | 130Hz-16KHz     | 100Hz-18KHz     | 100Hz-18KHz     |
| Cutout Size        | Dia 155mm       | Dia 170mm       | Dia 220mm       |
| Product Size       | Dia180x50mm(H)  | Dia 200x67mm(H) | Dia 245x75mm(H) |
| Installation       | Inceiling       | Inceiling       | Inceiling       |
| Enclosure Material | Metal           | Metal           | Metal           |
| Weight             | 0.7Kg           | 0.75Kg          | 1Kg             |
| Finish             | White           | White           | White           |
| Speakers           | 4"x1 full range | 5"x1 full range | 6"x1 full range |

## Wall Speaker

## SP-W610

- ▶ ABS wall mount speaker
- ▶ Elegant outlook
- ▶ With 10W transformer
- ▶ Good for PA and BGM



| MODEL              | SP-W610            |
|--------------------|--------------------|
| Power at 100V      | 10W                |
| Power at 70V       | 5W                 |
| SPL( 1W/1M)        | 91dB               |
| Max SPL@ 1M        | 100dB              |
| Freq. Response     | 150Hz-15KHz        |
| Dispersion Angel   | NA                 |
| Product Size       | 350x240x100mm      |
| Installation       | Wall mounted       |
| Enclosure Material | ABS                |
| Weight             | 1.4Kg              |
| Finish             | White              |
| Speakers           | 6.5" x1 full range |

## Wall Speaker

## SP-WC540B

- ▶ Corner fit speaker
- ▶ High performance with Good looking



| MODEL              | SP-WC540B                     |
|--------------------|-------------------------------|
| Power at 100V      | 10/20/40W; 40W@8 ohm          |
| Power at 70V       | 5/10/20W; 40W@8 ohm           |
| SPL( 1W/1M)        | 89dB                          |
| Max SPL@ 1M        | 106dB                         |
| Freq. Response     | 80Hz-20KHz                    |
| Dispersion Angel   | 90 degree                     |
| Product Size       | 230x80x295mm                  |
| Installation       | Corner                        |
| Enclosure Material | ABS                           |
| Weight             | 2 Kg                          |
| Finish             | Black                         |
| Speakers           | 1" x1 (TREBLE) 5.25" x1(BASS) |

## Wall Speaker High Quality



SP-WS880PW



SP-WS660PW



SP-WS540PW



SP-WS420PB

### Features:

- ▶ Good music reproduction
- ▶ Fashionable appearance
- ▶ Available in BLACK and WHITE color
- ▶ Suitable for conference room and high quality audio demand applications.

| MODEL              | SP-WS420PW/B                | SP-WS540PW/B              | SP-WS660PW/B                | SP-WS880PW/B              |
|--------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|
| Power at 100V      | 5/10/20W; 20W@8 ohm         | 10/20/40W; 40W@8 ohm      | 15/30/60W; 60W@8 ohm        | 20/40/80W; 80W@8 ohm      |
| Power at 70V       | 2.5/5/10W; 20W@8 ohm        | 5/10/20W; 40W@8 ohm       | 7.5/15/30W; 60W@8 ohm       | 10/20/40W; 80W@8 ohm      |
| SPL( 1W/1M)        | 90dB                        | 90dB                      | 91dB                        | 91dB                      |
| Max SPL@ 1M        | 103dB                       | 105dB                     | 108dB                       | 110dB                     |
| Freq. Response     | 60Hz-18KHz                  | 60Hz-18KHz                | 60Hz-18KHz                  | 60Hz-18KHz                |
| Dispersion Angel   | 90x80 degree                | 90x80 degree              | 90x80 degree                | 90x80 degree              |
| Product Size       | 250x160x150mm               | 300x170x165mm             | 345x200x195mm               | 455x275x260mm             |
| Installation       | Wall mounted                | Wall mounted              | Wall mounted                | Wall mounted              |
| Enclosure Material | ABS                         | ABS                       | ABS                         | ABS                       |
| Weight             | 1.5Kg                       | 3.4Kg                     | 3.8Kg                       | 7.5Kg                     |
| Finish             | White/Black                 | White/Black               | White/Black                 | White/Black               |
| Speakers           | 3/4" x1 (TREBLE) 4"x1(BASS) | 1" x1 (TREBLE) 5"x1(BASS) | 1" x1 (TREBLE) 6.5"x1(BASS) | 1" x1 (TREBLE) 8"x1(BASS) |

## Wall Speaker

## SP-WS420W / SP-WS530W / SP-WS640W

- ▶ powerful sound
- Suitable for various applications

Black and white color available

- ▶ ABS speaker
- ▶ Stylish with powerful sound
- ▶ With 30W transformer
- ▶ Good for PA and BGM

- ▶ ABS wall mount speaker
- ▶ Elegant outlook
- ▶ With 40W transformer
- ▶ Good for PA and BGM



| MODEL              | SP-WS420W                   | SP-WS530W                   | SP-WS640W                   |
|--------------------|-----------------------------|-----------------------------|-----------------------------|
| Power at 100V      | 20W                         | 30W                         | 40W                         |
| Power at 70V       | 10W                         | 15W                         | 20W                         |
| SPL( 1W/1M)        | 88dB                        | 88dB                        | 90dB                        |
| Max SPL@ 1M        | 101dB                       | 103dB                       | 106dB                       |
| Freq. Response     | 60Hz-20KHz                  | 90Hz-20KHz                  | 70Hz-20KHz                  |
| Dispersion Angel   | 90 degree                   | 90 degree                   | 90 degree                   |
| Product Size       | 215x170x150mm               | 242x182x162mm               | 284x215x190mm               |
| Installation       | Wall mounted                | Wall mounted                | Wall mounted                |
| Enclosure Material | ABS                         | ABS                         | ABS                         |
| Weight             | 2.2Kg                       | 2.5Kg                       | 3.5Kg                       |
| Finish             | White/Black                 | White/Black                 | White/Black                 |
| Speakers           | 1" x 1 (TREBLE) 4"x1 (BASS) | 1" x 1 (TREBLE) 5"x1 (BASS) | 1" x 1 (TREBLE) 6"x1 (BASS) |

## Speaker and Horn

### SP-PS510P

- ▶ Weather proof projector
- ▶ Steady aluminum enclosure
- ▶ With 10W transformer

IP 55



### SP-PS620P

- ▶ Weather proof projector
- ▶ Steady aluminum enclosure
- ▶ With 20W transformer

IP 55



### SP-PS620PB

- ▶ Weather proof projector
- ▶ Steady aluminum enclosure
- ▶ With 20W transformer
- ▶ Bi Direction

IP 55 and bi directional



| MODEL              | SP-PS510P        | SP-PS620P          | SP-PS620PB         |
|--------------------|------------------|--------------------|--------------------|
| Power at 100V      | 5/10W            | 10/20W             | 10/20W             |
| Power at 70V       | 2.5/5W           | 5/10W              | 5/10W              |
| SPL( 1W/1M)        | 91dB             | 92dB               | 92dB               |
| Max SPL@ 1M        | 100dB            | 103dB              | 103dB              |
| Freq. Response     | 130Hz-15KHz      | 110Hz-15KHz        | 110Hz-15KHz        |
| Dispersion Angel   | 100 degree       | 120 degree         | 320 degree         |
| Product Size       | Dia138x205mm     | Dia 170x252mm      | Dia 170x252mm      |
| Installation       | Wall or ceiling  | Wall or ceiling    | Wall or corridor   |
| Enclosure Material | Aluminum         | Aluminum           | Aluminum           |
| Weight             | 2.2Kg            | 2.8Kg              | 3.4Kg              |
| Finish             | White            | White              | White              |
| Speakers           | 5" x1 full range | 6.5" x1 full range | 6.5" x2 full range |

### SP-HS10



IP 67

- ▶ Water proof horn for outdoor
- ▶ High IP rating
- ▶ With 10W transformer

### SP-HS15



IP 67

- ▶ Water proof horn for outdoor
- ▶ High IP rating
- ▶ With 15W transformer

### SP-HS30



IP 67

- ▶ Water proof horn for outdoor
- ▶ High IP rating
- ▶ With 30W transformer

### SP-HS50



IP 66

- ▶ Music Horn speaker
- ▶ High dB yet good for BGM
- ▶ With 50W transformer
- ▶ Good for PA and BGM

| MODEL              | SP-HS10                    | SP-HS15                      | SP-HS30                    | SP-HS50                               |
|--------------------|----------------------------|------------------------------|----------------------------|---------------------------------------|
| Power at 100V      | 1.25/2.5/5/10; 10W @8ohm   | 1.9/3.8/7.5/15; 15W @8ohm    | 3.8/7.5/15/30; 30W @8ohm   | 3.5/4.5/9/12.5/25/50; 50W @8ohm       |
| Power at 70V       | 0.63/1.25/2.5/5; 10W @8ohm | 0.95/1.9/3.75/7.5; 15W @8ohm | 1.9/3.75/7.5/15; 30W @8ohm | 1.75/2.25/4.5/6.25/12.5/25; 50W @8ohm |
| SPL( 1W/1M)        | 96dB                       | 101dB                        | 105dB                      | 98dB                                  |
| Max SPL@ 1M        | 106dB                      | 113dB                        | 120dB                      | 113dB                                 |
| Freq. Response     | 400Hz-8KHz                 | 300Hz-8KHz                   | 350Hz-8KHz                 | 100Hz-18KHz                           |
| Dispersion Angel   | 230 degree                 | 130 degree                   | 103 degree                 | 70 x 90 degree                        |
| Product Size       | Dia140x190mm               | Dia200x230mm                 | Dia240x290mm               | 250x360x310mm                         |
| Installation       | Bracket mount              | Bracket mount                | Bracket mount              | Bracket mount                         |
| Enclosure Material | ABS                        | ABS                          | ABS                        | ABS                                   |
| Weight             | 1Kg                        | 1.3Kg                        | 2.1Kg                      | 4Kg                                   |
| Finish             | Light grey                 | Light grey                   | Light grey                 | Light Grey                            |



## Speaker and Horn

### SP-HS30QM

- ▶ Water proof horn for outdoor
- ▶ High IP rating
- ▶ With 30W transformer



### SP-HS30QS

- ▶ Music Horn speaker
- ▶ High dB yet good for BGM
- ▶ With 30W transformer
- ▶ Good for PA and BGM



### SP-HSA15

- ▶ Water proof horn for outdoor
- ▶ High IP rating
- ▶ With 15W transformer



### SP-HSA30

- ▶ Water proof horn for outdoor
- ▶ High IP rating
- ▶ With 30W transformer



| MODEL              | SP-HS30QM     | SP-HS30QS     | SP-HSA15      | SP-HSA30          |
|--------------------|---------------|---------------|---------------|-------------------|
| Power at 100V      | 15/30W        | 15/30W        | 15/30W        | 15/30W; 30W @8ohm |
| Power at 70V       | 7.5/15W       | 7.5/15W       | 7.5/15W       | 7.5/15W           |
| SPL( 1W/1M)        | 96dB          | 101dB         | 105dB         | 97db              |
| Max SPL@ 1M        | 108dB         | 116dB         | 120dB         | 110db             |
| Freq. Response     | 400Hz-8KHz    | 300Hz-8KHz    | 350Hz-8KHz    | 120Hz-15KHz       |
| Dispersion Angel   | 230 degree    | 130 degree    | 103 degree    | 70 x 90 degree    |
| Product Size       | Dia285x205mm  | Dia246x230mm  | Dia328x290mm  | 280 x 360x 170mm  |
| Installation       | Bracket mount | Bracket mount | Bracket mount | Bracket mount     |
| Enclosure Material | ABS           | Aluminium     | Aluminium     | ABS               |
| Weight             | 2.2Kg         | 2Kg           | 2.2Kg         | 3kg               |
| Finish             | White         | White         | White         | White             |

## Out Door Column Speaker

## SP-CSOD10 / SP-CSOD20 / SP-CSOD30 / SP-CSOD40

### Features:

- ▶ Heavy duty aluminum column speaker for outdoor application with high IP rating.
- ▶ Excellent frequency response
- ▶ 70-100V transformer input
- ▶ **IP 44 for outdoor use**



Bottom



SP-CSOD10



SP-CSOD20



SP-CSOD30



SP-CSOD40

| MODEL              | SP-CSOD10                 | SP-CSOD20                 | SP-CSOD30                 | SP-CSOD40                 |
|--------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Power at 100V      | 5/10W                     | 10/20W                    | 15/30W                    | 20/40W                    |
| Power at 70V       | 2.5/5W                    | 5/10W                     | 7.5/15W                   | 10/20W                    |
| SPL( 1W/1M)        | 91dB                      | 91dB                      | 92dB                      | 92dB                      |
| Max SPL@ 1M        | 100dB                     | 103dB                     | 104dB                     | 107dB                     |
| Freq. Response     | 130Hz-16KHz               | 130Hz-16KHz               | 130Hz-18KHz               | 130Hz-16KHz               |
| Dispersion Angel   | 90x90 degree              | 90x90 degree              | 90x80 degree              | 90x80 degree              |
| Product Size       | 270x115x150mm             | 390x115x150mm             | 505x115x150mm             | 620x115x150mm             |
| Installation       | Wall mounted              | Wall mounted              | Wall mounted              | Wall mounted              |
| Enclosure Material | Aluminum                  | Aluminum                  | Aluminum                  | Aluminum                  |
| Weight             | 2.6Kg                     | 4.1Kg                     | 4.4Kg                     | 5Kg                       |
| Finish             | Light Grey                | Light Grey                | Light Grey                | Light Grey                |
| Speakers           | 1" x1 (TREBLE) 4"x1(BASS) | 1" x1 (TREBLE) 4"x2(BASS) | 1" x1 (TREBLE) 4"x3(BASS) | 1" x1 (TREBLE) 4"x4(BASS) |

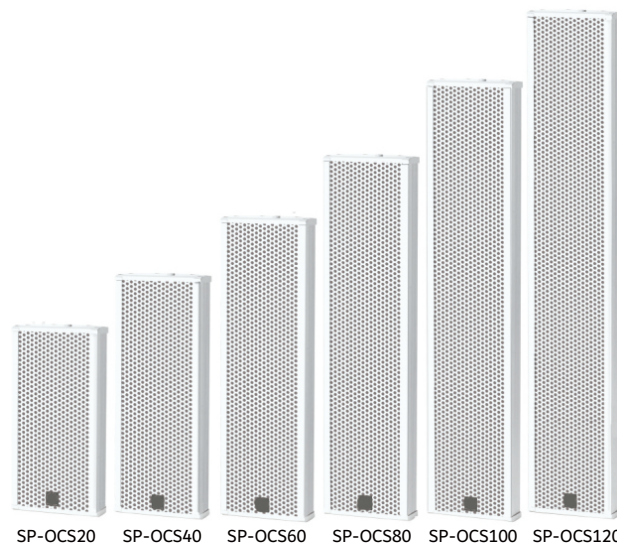
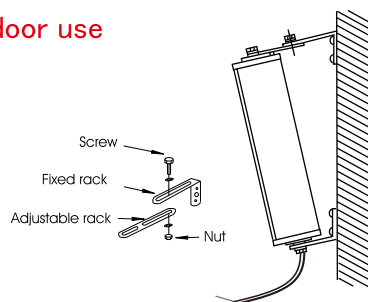


## Out Door Column Speaker

## SP-OCS20 / SP-OCS40 / SP-OCS60 / SP-OCS80 SP-OCS100 / SP-OCS120

### Features:

- ▶ Heavy duty aluminum column speaker for outdoor application with high IP rating.
- ▶ Excellent frequency response,
- ▶ Suitable for both background music and paging.
- ▶ **IP 44 for outdoor use**



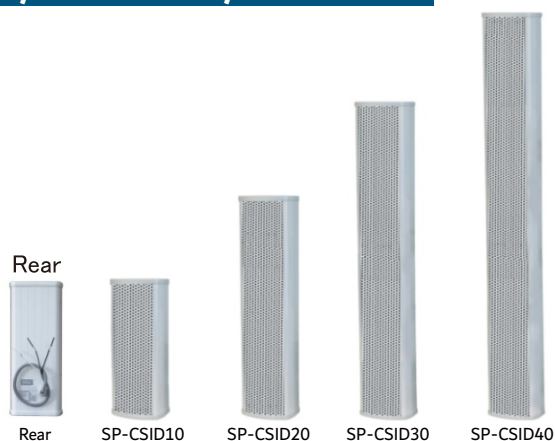
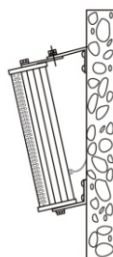
| MODEL              | SP-OCS20         | SP-OCS40         | SP-OCS60         | SP-OCS80         | SP-OCS100        | SP-OCS120        |
|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Power at 100V      | 10/20W           | 20/40W           | 30/60W           | 40/80W           | 50/100W          | 60/120W          |
| Power at 70V       | 5/10W            | 10/20W           | 15/30W           | 20/40W           | 25/50W           | 30/60W           |
| SPL( 1W/1M)        | 93dB             | 93dB             | 94dB             | 95dB             | 96dB             | 96dB             |
| Max SPL@ 1M        | 105dB            | 108dB            | 112dB            | 116dB            | 117dB            | 118dB            |
| Freq. Response     | 130Hz-16KHz      | 130Hz-16KHz      | 130Hz-16KHz      | 130Hz-16KHz      | 130Hz-16KHz      | 130Hz-16KHz      |
| Dispersion Angel   | 80x100 degree    | 80x100 degree    | 80x100 degree    | 80x100 degree    | 80x100 degree    | 80x100 degree    |
| Product Size       | 304x227x125mm    | 520x227x125mm    | 736x227x125mm    | 952x227x125mm    | 1168x227x125mm   | 1384x227x125mm   |
| Installation       | Wall mounted     | Wall mounted     | Wall mounted     | Wall mounted     | Wall mounted     | Wall mounted     |
| Enclosure Material | Aluminum         | Aluminum         | Aluminum         | Aluminum         | Aluminum         | Aluminum         |
| Weight             | 3.2Kg            | 5Kg              | 6.8Kg            | 8.6Kg            | 10.5Kg           | 12.5Kg           |
| Finish             | White            | White            | White            | White            | White            | White            |
| Speakers           | 6" x1 Full range | 6" x2 Full range | 6" x3 Full range | 6" x4 Full range | 6" x5 Full range | 6" x6 Full range |

## In Door Column Speaker

## SP-CSID10 / SP-CSID20 / SP-CSID30 / SP-CSID40

### Features:

- ▶ Indoor column speaker with slim body to produce good music effects
- ▶ Excellent frequency response
- ▶ 70-100V transformer input



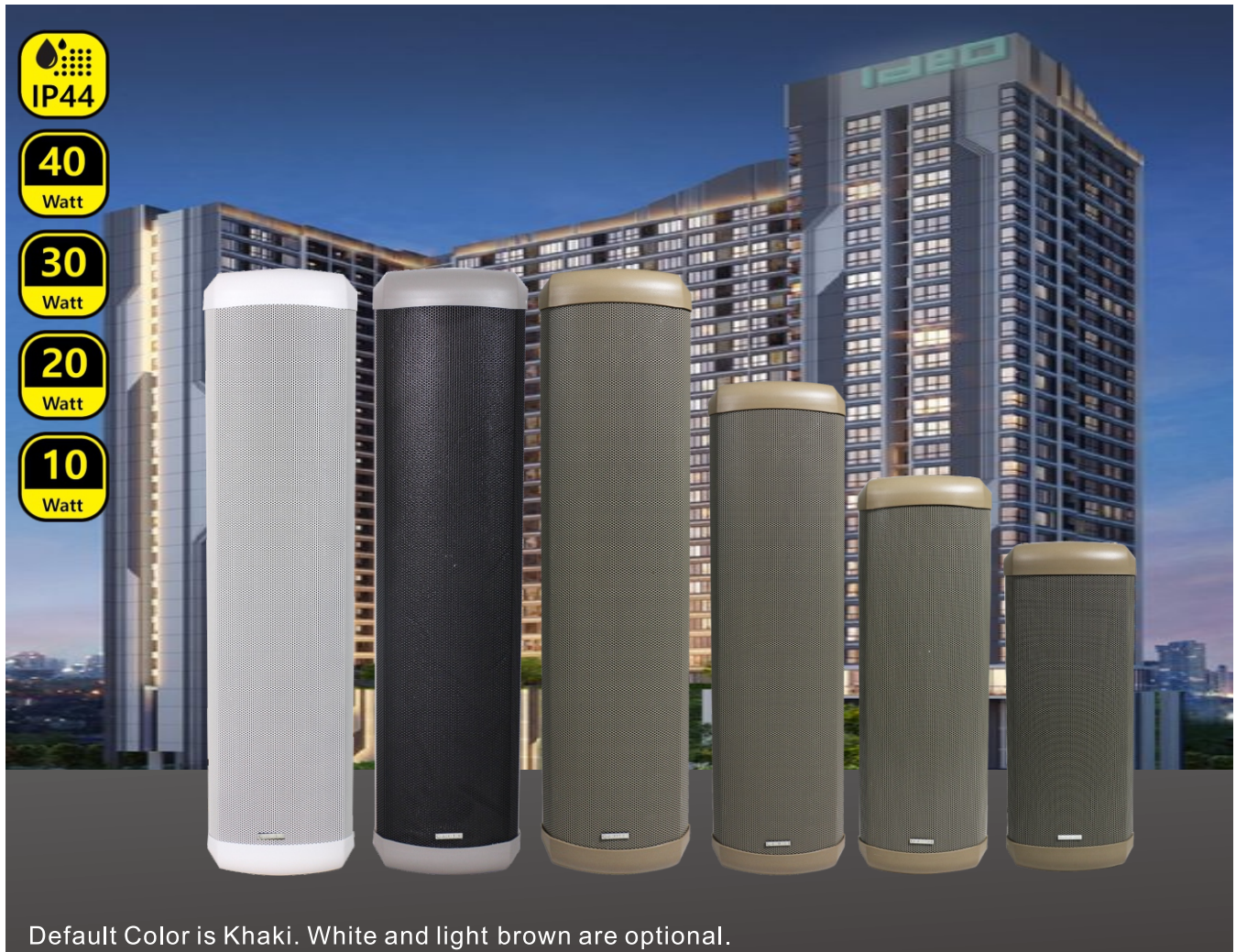
| MODEL              | SP-CSID10          | SP-CSID20          | SP-CSID30          | SP-CSID40          |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| Power at 100V      | 5/10W              | 10/20W             | 15/30W             | 20/40W             |
| Power at 70V       | 2.5/5W             | 5/10W              | 7.5/15W            | 10/20W             |
| SPL( 1W/1M)        | 90dB               | 90dB               | 92dB               | 92dB               |
| Max SPL@ 1M        | 100dB              | 102dB              | 104dB              | 107dB              |
| Freq. Response     | 160Hz-16KHz        | 160Hz-16KHz        | 130Hz-18KHz        | 130Hz-16KHz        |
| Dispersion Angel   | 90x100 degree      | 90x110 degree      | 90x110 degree      | 80x110 degree      |
| Product Size       | 260x105x75mm       | 405x105x75mm       | 548x105x75mm       | 690x105x75mm       |
| Installation       | Wall mounted       | Wall mounted       | Wall mounted       | Wall mounted       |
| Enclosure Material | Aluminum           | Aluminum           | Aluminum           | Aluminum           |
| Weight             | 1.3Kg              | 2Kg                | 2.7Kg              | 3.5Kg              |
| Finish             | White              | White              | White              | White              |
| Speakers           | 2.5" x2 full range | 2.5" x4 full range | 2.5" x6 full range | 2.5" x8 full range |

## In and Out Door Column Speaker

SP-CSID10S / SP-CSID20S /  
SP-CSID30S / SP-CSID40S

### Features:

- ▶ Aluminum wall mount speaker at stylist design with excellent frequency response
- ▶ 70-100V transformer input, and hi-fi Sound
- ▶ The speaker is suitable for both background music and paging.
- ▶ IP 44 for outdoor use



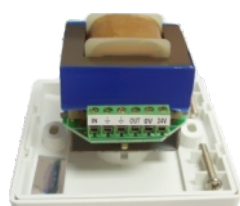
| MODEL              | SP-CSID10S                                | SP-CSID20S                                | SP-CSID30S                                | SP-CSID40S                                |
|--------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
| Power at 100V      | 5/10W                                     | 10/20W                                    | 15/30W                                    | 20/40W                                    |
| Power at 70V       | 2.5/5W                                    | 5/10W                                     | 7.5/15W                                   | 10/20W                                    |
| SPL( 1W/1M)        | 91dB                                      | 93dB                                      | 94dB                                      | 95dB                                      |
| Max SPL@ 1M        | 101dB                                     | 106dB                                     | 108dB                                     | 110dB                                     |
| Freq. Response     | 150Hz-18KHz                               | 150Hz-18KHz                               | 150Hz-18KHz                               | 150Hz-18KHz                               |
| Dispersion Angel   | 180x50 degree                             | 180x50 degree                             | 180x50 degree                             | 180x50 degree                             |
| Product Size       | 145x145x275mm                             | 145x145x375mm                             | 145x145x475mm                             | 145x145x575mm                             |
| Installation       | Wall mounted                              | Wall mounted                              | Wall mounted                              | Wall mounted                              |
| Enclosure Material | Aluminum                                  | Aluminum                                  | Aluminum                                  | Aluminum                                  |
| Weight             | 1.8Kg                                     | 2.5Kg                                     | 3.2Kg                                     | 4.1Kg                                     |
| Finish             | Khaki, White, Titanium Color(Light Brown) | Khaki, White, Titanium Color(Light Brown) | Khaki, White, Titanium Color(Light Brown) | Khaki, White, Titanium Color(Light Brown) |
| Speakers           | 4"x1bass, 1"x1 treble                     | 4"x2bass, 1"x1 treble                     | 4"x3 bass, 1"x1 treble                    | 4"x4 bass, 1"x1 treble                    |

## Volume Control

- Stylish design suitable for any environment  
Reliable quality working with Lucky Tone or other PA/VA systems  
Power rating ranging from 6W to 120W
- **T** means with 24VDC override in case of emergency
- **B** means comes with back box



6W



30W



60W



120W

| Power Rating       | 6W             | 30W            | 60W            | 120W           |
|--------------------|----------------|----------------|----------------|----------------|
| Steps              | 5              | 5              | 5              | 5              |
| Control mode       | Resistor       | Transformer    | Transformer    | Transformer    |
| Signal input       | 100V           | 100V           | 100V           | 100V           |
| Freq. Response     | 20Hz-20KHz     | 20Hz-20KHz     | 20Hz-20KHz     | 20Hz-20KHz     |
| Product Size WHD   | 86 x 86 x 50mm | 86 x 86 x 62mm | 86 x 86 x 70mm | 86 x 86 x 50mm |
| Enclosure Material | Plastic        | Plastic        | Plastic        | Plastic        |
| Weight             | 70g            | 135g           | 295g           | 503g           |
| Finish             | White          | White          | White          | White          |

## Volume Control

## Code for Different Types



| MODEL     | Discription                                                                 |
|-----------|-----------------------------------------------------------------------------|
| VC-06R    | 6W volume control, rectangular type 115 x 70                                |
| VC-30R    | 30W volume control, rectangular type 115 x 70                               |
| VC-60R    | 60W volume control, rectangular type 115 x 70                               |
| VC-120R   | 120W volume control, rectangular type 115 x 70                              |
| VC-06RO   | 6W volume control, rectangular type 115 x 70, 24VDC override                |
| VC-30RO   | 30W volume control, rectangular type 115 x 70, 24VDC override               |
| VC-60RO   | 60W volume control, rectangular type 115 x 70, 24VDC override               |
| VC-120RO  | 120W volume control, rectangular type 115 x 70, 24VDC override              |
| VC-06RB   | 6W volume control, rectangular type 115 x 70 with back box                  |
| VC-30RB   | 30W volume control, rectangular type 115 x 70 with back box                 |
| VC-60RB   | 60W volume control, rectangular type 115 x 70 with back box                 |
| VC-120RB  | 120W volume control, rectangular type 115 x 70 with back box                |
| VC-06ROB  | 6W volume control, rectangular type 115 x 70, 24VDC override and back box   |
| VC-30ROB  | 30W volume control, rectangular type 115 x 70, 24VDC override and back box  |
| VC-60ROB  | 60W volume control, rectangular type 115 x 70, 24VDC override and back box  |
| VC-120ROB | 120W volume control, rectangular type 115 x 70, 24VDC override and back box |
| VC-S06A   | 6W volume control, square type 86 x 86                                      |
| VC-S30A   | 30W volume control, square type 86 x 86                                     |
| VC-S60A   | 60W volume control, square type 86 x 86                                     |
| VC-S120A  | 120W volume control, square type 86 x 86                                    |
| VC-S06AT  | 6W volume control, square type 86 x 86, 24VDC override                      |
| VC-S30AT  | 30W volume control, square type 86 x 86, 24VDC override                     |
| VC-S60AT  | 60W volume control, square type 86 x 86, 24VDC override                     |
| VC-S120AT | 120W volume control, square type 86 x 86, 24VDC override                    |



Rack Cabinet

Description

- ▶ Professional elegant appearance design. 19 inch, metric or ETST standard
- ▶ Modular design, easy to assemble, providing a quick solution to the assembly and combination between multiple server racks
- ▶ Convenient access from different sides; Cable entries at the top, bottom, front or back is simple for cable routing and management
- ▶ Built in grounding kit for equipment protection
- ▶ High-intensity cold-rolled steel plates framework and 5mm tempered glass
- ▶ Exterior dimension meets IEC297-2 standard, contamination free



Wall mount or Stand Cabinet

| NO | Model   | Width* Depth *Height | Rack Space |
|----|---------|----------------------|------------|
| 1  | RCK-06U | 550mm*600mm*350mm    | 6U         |
| 2  | RCK-09U | 550mm*600mm*490mm    | 9U         |
| 3  | RCK-12U | 550mm*600mm*630mm    | 12U        |
| 4  | RCK-16U | 550mm*600mm*720mm    | 16U        |

Stand Cabinet with wheel

| NO | Model   | Width* Depth *Height | Rack Space |
|----|---------|----------------------|------------|
| 1  | RCK-24U | 600mm*600mm*1245mm   | 24U        |
| 2  | RCK-28U | 600mm*600mm*1445mm   | 28U        |
| 3  | RCK-37U | 600mm*600mm*1845mm   | 37U        |
| 4  | RCK-42U | 600mm*600mm*2045mm   | 42U        |



Cable management post inside



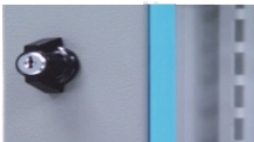
Dismountable sides



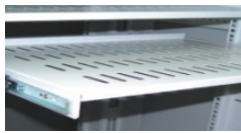
High speed vented fans



Cabinets stands



Well designed front door lock



Optional keyboard cradle



# *Nindōmā*

Thank You



[www.nindoma.com](http://www.nindoma.com)