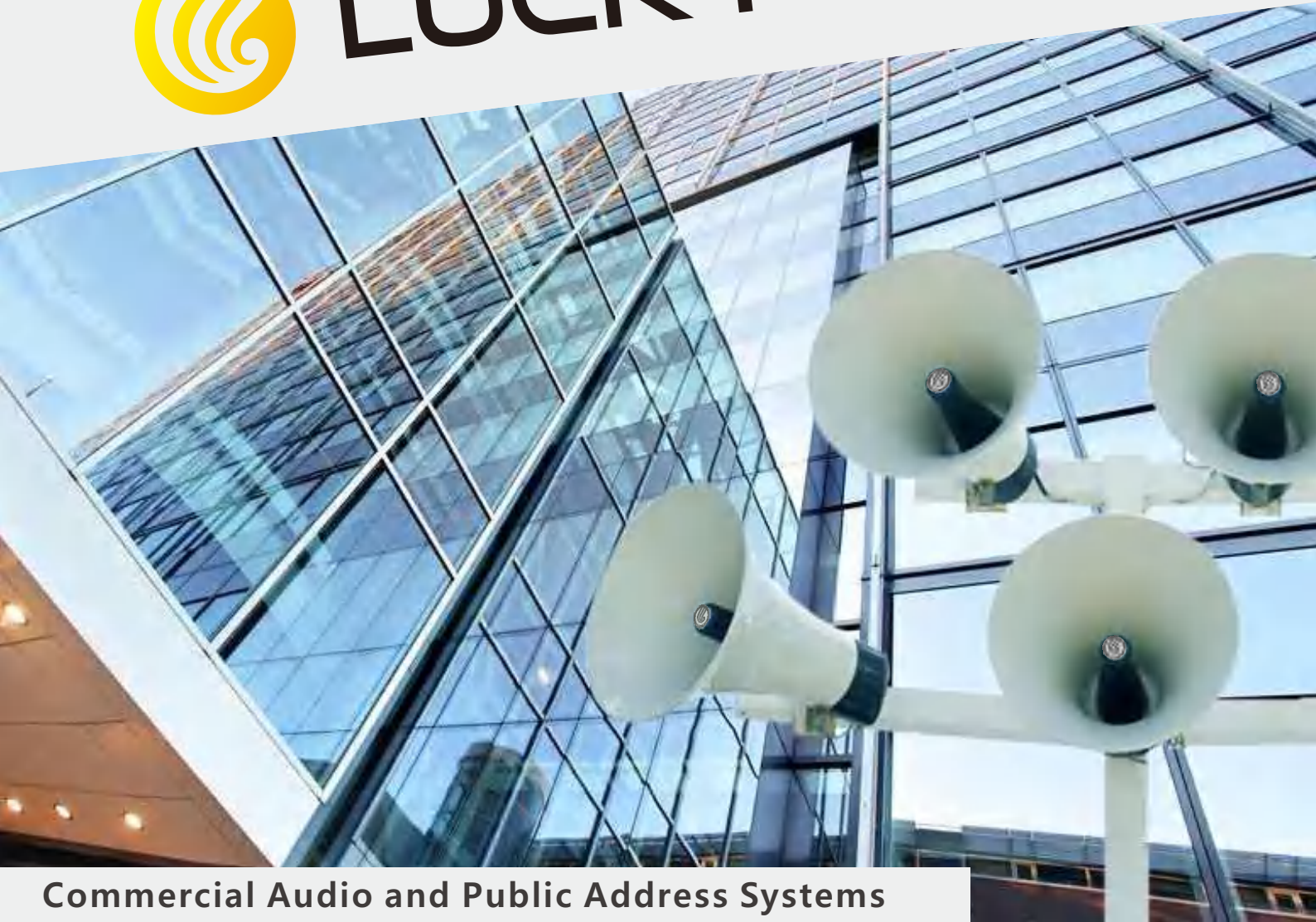









Professional  
**LUCKY TONE**



**Commercial Audio and Public Address Systems**

# Lucky Tone Professional

-  Good product guarantee
-  Total solution from small venue to large complex
-  One stop purchase with professional consultancy and service
-  Strong customization capability
-  Sophisticate R & D resources



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**MA Series Mixer Amplifiers**
**Cost Effective Mixer Amp with 5 inputs**

<b>MA-70</b>	<b>@ 70W RMS Power</b>
<b>MA-130</b>	<b>@ 130W RMS Power</b>
<b>MA-260</b>	<b>@ 260W RMS Power</b>
<b>MA-360</b>	<b>@ 360W RMS Power</b>


**Description:**

Highly flexible mixer amplifiers available at 70, 130, 260 and 360W 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.

**Features:**

- ▶ Mic 1 with priority in the front
- ▶ 3 microphone and 2 auxiliary inputs
- ▶ 1 line output
- ▶ 100V, 70V and 4-16 Ohms transformer isolated speaker outputs
- ▶ Automatic mute function for paging and announcements
- ▶ Individual input gain controls with master volume control
- ▶ EMC Microphone with priority
- ▶ Bass and treble tone controls
- ▶ LED level meter
- ▶ Speaker output short circuit protection

Model	MA-70	MA-130	MA-260	MA-360
Rated Power Output	70W	130W	260W	360W
Output Regulation	Less than 3 dB (no load to full load)			
Frequency Response	60 – 15,000 Hz, +/- 3dB			
THD	Less than 0.5% at 1kHz (1/3 Rated Power)			
S/N Ratio	Better than 73dB			
Tone Controls	BASS: 100 Hz (+/- 10dB), TREBLE: 12k Hz (+/- 10dB)			
Controls	5 input gain, 1 treble, 1 bass, 1 mute, and power switch			
Cooling	Internal 12VDC fan, extensive heat sinking			
Indicators	Power indicator LED, LED output level meter 0, 2, 4, 6, 8, 10dB			
Protection	Fuse: T2.0A	Fuse: T4.0A	Fuse: T6.0A	Fuse: T8.0A
	Current limiter, short circuit and thermal protection circuits			
Power Consumption	115W	215W	435W	600W
Power Requirements	220-240V AC, 50/60 Hz			
Dimensions	89(H) x 483(W) x 366(D) mm			
Built-in Dimensions	2 U rack 19 inch			
Carton Dimensions	185(H) x 520(W) x 435(D) mm			
Net Weight	10.04kg	11.36kg	13.68kg	14.08kg
Gross Weight	11.72kg	13.02kg	15.32kg	15.70kg
Finish	Panel: steel plate, black Case: steel plate, black			

REAR PANEL





**MA Series Mixer Amplifier with Audio Sources**

**Cost Effective Mixer Amp with Built-in USB, SD, AUX, Tuner and Bluetooth**



**MA-70T @ 70W RMS Power**  
**MA-130T @ 130W RMS Power**  
**MA-260T @ 260W RMS Power**  
**MA-360T @ 360W RMS Power**


**Description:**

Highly flexible mixer amplifiers available at 70, 130, 260 and 360W 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.

**Features:**

- ▶ Mic 1 with priority in the front
- ▶ 3 microphone and 2 auxiliary inputs
- ▶ 1 line output
- ▶ 100V, 70V and 4-16 Ohms transformer isolated speaker outputs
- ▶ Automatic mute function for paging and announcements
- ▶ Individual input gain controls with master volume control
- ▶ EMC Microphone with priority
- ▶ Bass and treble tone controls
- ▶ LED level meter
- ▶ Speaker output short circuit protection

Model	MA-70T	MA-130T	MA-260T	MA-360T
Rated Power Output	70W	130W	260W	360W
Output Regulation	Less than 3 dB (no load to full load)			
Frequency Response	60 – 15,000 Hz, +/- 3dB			
THD	Less than 0.5% at 1kHz (1/3 Rated Power)			
S/N Ratio	Better than 73dB			
Tone Controls	BASS: 100 Hz (+/- 10dB), TREBLE: 12k Hz (+/- 10dB)			
Controls	5 input gain, 1 treble, 1 bass, 1 mute, and power switch			
Cooling	Internal 12VDC fan, extensive heat sinking			
Indicators	Power indicator LED, LED output level meter 0, 2, 4, 6, 8, 10dB			
Protection	Fuse: T2.0A	Fuse: T4.0A	Fuse: T6.0A	Fuse: T8.0A
Power Consumption	115W	215W	435W	600W
Power Requirments	220-240V AC, 50/60 Hz			
Dimensions	89(H) x 483(W) x 366(D) mm			
Built-in Dimensions	2 U rack 19 inch			
Carton Dimensions	185(H) x 520(W) x 435(D) mm			
Net Weight	10.04kg	11.36kg	13.68kg	14.08kg
Gross Weight	11.72kg	13.02kg	15.32kg	15.70kg
Finish	Panel: steel plate, black Case: steel plate, black			

**REAR PANEL**


**6-Zone Mixer Amplifier with Volume Control**

**Description:**

This series of commercial grade mixer power amplifier deliver clean and powerful sound with reliable performance. Ranging from 70W to 650W RMS power, with built-in 6-zone speaker selector and individual volume controller for each zone. These highly flexible mixer amplifiers designed for a wide variety of voice and background music applications such as restaurants, bars, stores and any small-medium size installations.

**Features:**

- ▶ With built-in USB/Bluetooth/Tuner/SD card
- ▶ Flexible power rating of 70/130/260/360/500/650W
- ▶ With 3 MIC inputs, 2 AUX inputs and 1 Line output
- ▶ 100V, 70V and 4–16Ohms transformerisolated speaker outputs
- ▶ Independent gain control for each zone
- ▶ Separate BASS and TREBLE control



**Steady and powerful performance**

Model	MZ-200BT	MZ-300BT	MZ-600BT	MZ-1000BT	MZ-2000BT	MZ-3000BT
Rated Power Output	70W	130W	260W	360W	500W	650W
Amplification	Analog 100V Transformer Type					
Output	100V, 70V and 4–16 Ohms					
Frequency Response	60 – 15KHz, +/- 3dB					
THD	Less than 0.5% at 1KHz (1/3 Rated Power)					
S/N Ratio	Better than 85dB					
VOL Range	BASS: 100Hz (± 10dB), TREBLE: 12kHz (±10 dB)					
Controls	Gain controls and power switch					
Cooling	Internal 12VDC fan					
Indicators	Power and Level Indicators					
Power Consumption	110W	190W	365W	510W	720W	910W
Power Requirments	220–240V AC, 50/60 Hz					
Dimensions	89(H) x 483(W) x 366(D) mm					
Built-in Dimensions	2 U rack 19 inch					
Carton Dimensions	185(H) x 520(W) x 435(D) mm					
Net Weight	12 kg	13.5 kg	15 kg	12 kg	13.5 kg	15 kg
Gross Weight	13.8kg	15.2 kg	17 kg	13.8kg	15.2 kg	17 kg
Finish	Panel: aluminium, black      Case: steel plate, black					

**Class D Mixer Amplifier with Audio Sources**


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

**MA-120TD @ 120W RMS Power**  
**MA-240TD @ 240W RMS Power**  
**MA-350TD @ 350W RMS Power**  
**MA-500TD @ 500W RMS Power**

**Note:**

**MA-TD DANTE:**

**Optional Dante Audio module for MA-120TD series to Order**

**MA-TD DSP:**

**Optional DSP module for MA-120TD series to Order**

**MA-TD IP:**

**Optional IP module for MA-120TD series to Order**

**MA-TD SIP:**

**Optional SIP module for MA-120TD series to Order**



**MA-TD DANTE**



**MA-TD DSP**



**MA-TD IP / MA-TD SIP**


**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.

**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

Model	MA-120TD	MA-240TD	MA-350TD	MA-500TD
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 Case: steel plate, black			

**Class D Mixer Amplifier with Audio Sources**

**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.

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

**MA-120AD @ 120W RMS Power**

**MA-240AD @ 240W RMS Power**

**MA-350AD @ 350W RMS Power**

**MA-500AD @ 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

Model	MA-120AD	MA-240AD	MA-350AD	MA-500AD
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 Case: steel plate, black			



**Compro-60 USA / 80 USA Compact PA Amplifier**
**Description:**

For background/foreground music and paging applications, Compro series all-in-one amplifier is designed to deliver premium sound, provide simplified set up and easy daily operation, and offer the flexibility to expand when more loudspeakers are required.

This amplifier series integrates Mp3, Bluetooth, FM tuner, TF card, record, echo, paging and amplification for a wide range of commercial applications such as retail stores, restaurants and bars, hospitality venues, conference rooms, schools and auxiliary zones.


**Features:**

- ▶ Amplification for premium sound from a reliable, high quality Class-D amplifier provides optimized performance and premium sound quality
- ▶ With Record function, can record in the USB drive and play.
- ▶ Microphone priority function to mute the BGM in paging status.
- ▶ Individual music and microphone paging volume controls.
- ▶ Bass, treble, and echo controls
- ▶ With built-in Mp3 supports many audio format like Mp3,WMA, WAV, APE, FLAC etc.
- ▶ 4 Ohm and 100V line outputs optional.
- ▶ Emergency 12-24VDC battery back up function, or use in car for vehicle amplifier.

**Ordering code:**

**Compro-60USA; 60W 100-240VAC Power supply**

**Compro-80USA; 80W 100-240VAC Power supply**

Model	Compro 60 USA / Compro 80 USA
Rated Output Power	Max 60W, RMS 30W / Max 80W, RMS 40W
Power Supply Voltage	~100-240V, 50/60Hz
Power Consumption	<40W/50W
Speaker Output	100V / 70V (USA version) / 4Ω
Frequency Response	20~20KHz (+1dB ~ -3dB) at 4ohms
SNR	>89dB (with A-Weight)
Nonlinear Distortion	<1% (at 1/3 rated power, 1kHz)
Microphone input	30mV, 600Ω, balanced input
Auxiliary input	+6dBu, 10KΩ, unbalanced input
VOL Range	Bass:100Hz(±10dB), Treble:12KHz(±10dB)
Mute Function	MIC over other inputs
Function Controls	1 × power switch, 1 × input source selection switch 1 × music volume knob, 1 × bass knob, 1 × treble knob, 1 × MIC volume knob 1 × echo knob, 1 × record key, 1 × cycle key, 1 × prev key, 1 × next key, 1 × pause key
Working Temperature	-10° C ~+80° C
Cooling	Heat sink Style
Product Dimension (WxHxD)	280 × 62 × 185 mm
Package Dimension (WxHxD)	345 × 110 × 250 mm
Net Weight	1.8kg
Gross Weight	2.2kg

**Compro Pack**

Set sell offer



## Mixer Amplifier

### Description:

The MPro-30/60 amplifiers are comprehensive, all-in-one desktop type mixer-amplifier solutions for commercial and industrial applications. These low-cost units provide all necessary features in a simple building.

### Features:

- ▶ Three line and two microphone inputs with Euro block and RCA jack.
- ▶ Acceptable wide range input level.
- ▶ 30Watts(MPro-30) / 60Watts(MPro-60) / 120Watts(MPro-120) output.
- ▶ Advanced protection system includes current limiting, over current and thermal protections.
- ▶ Desktop type
- ▶ Two bands tone controls
- ▶ Low distortion and low noise level
- ▶ Compact size and light weight
- ▶ Ideal commercial and industrial use



### Functions:

- ▶ Controls
  - Front : 3 Channel Volume Control & Tone Control, Master Volume Control.
  - Rear : Line/MIC selector, Talkover level volume, Phantom Switch ,Ground lift Switch, Message play and stop.
- ▶ Connectors
  - Euro Block for Channel 1-2 Input and USB.
  - RCA and AUX phone for Channel 3 Input.
  - Euro Block for Speaker Output and FM antenna input.
- ▶ Message play : playback the recorded message with micro sd card on the rear panel.
- ▶ Media Player : MP3 play, Record to USB memory, Bluetooth, FM.
- ▶ Indicators : Power, Signal, -10dB, Clip and Protect.
- ▶ Protection : Current Limiting, Thermal & DC Offset Protection.
- ▶ Cooling : Convection Cooling.

Model	Mpro-30	Mpro-60	Mpro-120
Rated Output Power	30W	60W	120W
Input sensitivity / Impedance	MIC: -50dB/600ohm Balanced      Line: -6dB/10kohm Unbalanced		
Power Supply Voltage	AC110-240V 50/60Hz		
Power Consumption	65W	95W	165W
Speaker Output	100V(333Ω), 70V(163Ω), 4Ω(11V)	100V(166Ω), 70V(82Ω), 4Ω(15V)	100V(83Ω), 70V(41Ω), 4Ω(22V)
Frequency Response	80Hz 17KHz ( +1dB /-3dB )		
S/N Ratio	>80dB (with A-Weight)		
T.H.D	1% at rated power, 1kHz)		
Working Humidity	90%		
Auxiliary input	-6dBu/10KΩ, Unbalanced input		
Tone Controls	Bass:100Hz(±10dB), Treble:10KHz(±10dB)		
Mute Function Priority	SD Card > CH1 VOX > CH1, CH2, CH3, Media Player		
Working Temperature	0 °C~+40 °C		
Product Dimension (WxHxD)	280x60x200 mm		
Net Weight	2.1kg	2.5kg	3.3kg

## 1U 19-Inch Rack Mount Deck for Up to 3 Mplayers

### Features:

Mplayer R can house up to 3pcs of media players with the functions of Bluetooth, FM, USB, SD, and recorded voice alarm messages

I record playback message and trigger by 4 dry contacts

### Media Players can be freely combined

Mplayer A: Multi media player, support Internet radio, Bluetooth, AUX input, USB, APP control

Mplayer B: 8 record message trigger by 8 dry contacts

Mplayer C: Media Player, support Bluetooth, FM, USB and SD

MPlayer D: Media Player, support DAB/FM & Bluetooth

### Connectors

Euroblock for audio output.

Euroblock for dry contact input.

MIC or LINE for REC input.

FM Antenna, 2.4GHz wireless Antenna,

Bluetooth Antenna.

DC 24V input.

Indicators: 2.0 inch TFT LCD, Power LED.

1pc  
Combination



2pcs  
Combination



3pcs  
Combination



### Model

### Mplayer R

Power consumption

10 Watt

Power supply

110~240V AC / 50~60Hz DC 24V

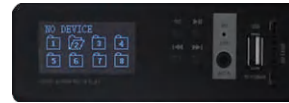
Weight (Net)

3.82 kg

Dimensions (W x H x D)

483 x 44 x 110mm

**6-Zone Mixer Amplifier with Zone Volume Control**

**Mplayer A**

**Mplayer B**

**Mplayer C**

**Mplayer D**

4 types of Media Player for you to choose to add to the Amplifier



Optional Mounts for assembly in 19 rack, Ordering code: RKM-01

**Features:**
**► Controls**

Front : 4 Input Channel Volume Control and 1 selectable source input Volume control, Master Volume Control, 6 Zone Speaker Selector with 6 step attenuator.

Rear : Talkover Switch ( VOX ) & Phantom Power Switch for Channel 1-4. Chime enable with volume control.

Bypass contact input & system mute.

**► Connectors**

Input : Channel 1 - 4 : Electronically Balanced with chime switch.

Aux : Dual RCA.

Remote Mic : Rj45.

Emergency Alarm input : Euro block.

Output : Speaker Output : Euro Block . Attenuated and Switched 6 CH, Direct Output 4Ω, 70V, 100V.

REC Out & Link out : RCA.

Contact : Ext. Chime : Euro block.

MUTE : Euro block.

**► Media player module : MPlayer A / MPlayer B / MPlayer C.**
**► Indicators : SIG, -10dB, CLIP & Protect. Zone selector.**
**► Protection : Output Current Limiting, Thermal Protection & DC Offset Protection.**
**► Cooling : Convection Cooling.**
**► Option : Rack Mount Kit.**


Model	Mpro-130	Mpro-240	Mpro-360	Mpro-480	Mpro-600	
Rated Power (RMS)	130W	240W	360W	480W	600W	
Input sensitivity/ Impedance	Ch1-4	-45 dB / - 6 dB Selectable / 20 kΩ Balanced				
	Aux	0dB / 20 kΩ Balanced				
	Remote Mic	0dB / 20 kΩ Balanced				
Output level/ Impedance	Hi-z	100V(83Ω),70V(42Ω)	100V(42Ω),70V(21Ω)	100V(28Ω),70V(14Ω)	100V(21Ω),70V(10Ω)	100V(16Ω),70V(8Ω)
	Low-z	22V (4Ω)	31V (4Ω)	38V (4Ω)	43V (4Ω)	48V (4Ω)
	Rec Out	0dB / 600Ω Unbalanced				
	Link Out	0dB / 600Ω Unbalanced				
Frequency Respose (-3dB)	65Hz - 18kHz					
T.H.D (1kHz, Rated Power)	<1%					
Signal to Noise Ratio	>80dB					
Tone Control (± 10dB)	100Hz , 10KHz					
Power Source	AC 115 / 230 V, 50/60Hz					
Weight (Net)	9 kg	10kg	11kg	12kg	13kg	
Dimensions (W x H x D)	420 x88 x 320mm					

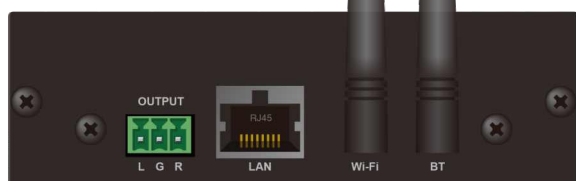


**Mplayer A**

**Front panel**



**Rear panel**



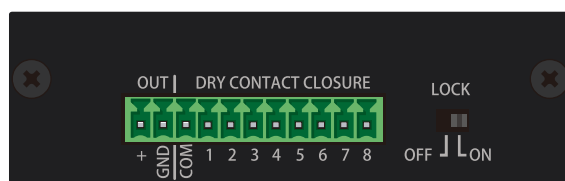
Internet radio, Bluetooth,  
AUX input, USB, APP control

**Mplayer B**

**Front panel**



**Rear panel**



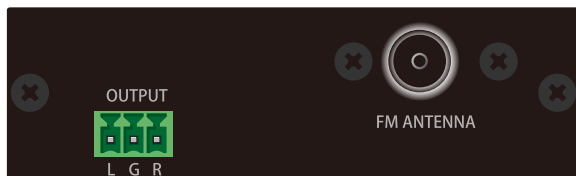
Voice Alarm REC & PLAY, USB, SD card  
User recordable voice messenger  
message triggered by 8 dry contacts closure

**Mplayer C**

**Front panel**



**Rear panel**



FM radio, Bluetooth, USB & SD card,  
AUX input, IR Remote control

**Mplayer D**

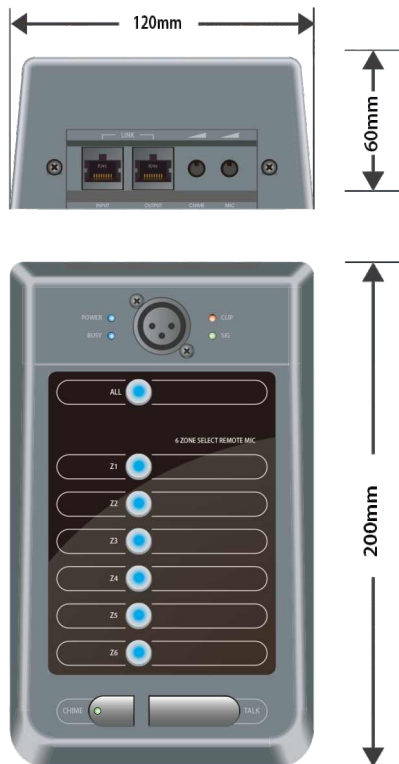
**Front panel**



**Rear panel**



DAB+, Bluetooth, FM radio, USB

**6-Zone Paging Microphone for MPRO Series**

**Features:**

- ▶ Controls
  - Zone selector switch, All & 6 Zone. Talk & Chime switch.
  - Level control volume. Slide switch for Lock.
- ▶ Connectors
  - RJ45 to connect with Model MPro-120 / 240 / 360.
- ▶ Indicators: Power, Signal, Clip.

**Model**
**RM-6**

Rated Output Level / Impedance	0dB / 600 $\Omega$ Balanced
Input sensitivity / Impedance	-36dB / 20k $\Omega$ Balanced
Frequency Response (-1dB)	80Hz - 15kHz
T.H.D	< 0.1%
SNR	> 90 dB
Hum&Noise	0dB
Number of Zone	6 Zone
Weight (Net)	1.2 kg
Dimensions (W x H x D)	140 x 60 x 205mm (only body)

## Class D Mixer Amplifier with Audio Sources, Dante and DSP

### Description

MA-1000TD V2 is a multi-function network DSP digital High-Z and low-Z power amplifier 2\*450W@4Ω, 1\*600W@8Ω, bridged 612W@8Ω, low-Z 100V-900W@10Ω. It can remotely monitor the status of power amplifier, set compression Controller, limiter, noise gate, parametric equalization, matrix routing, delay and other DSP functions in real time. Simple software interface provides customers with simple setup and operation experience, and a variety of connection methods ensure its good configurability and expandability, suitable for various applications, such as performance center, theatre, gallery, hotel, conference center, shopping center, retail store, restaurant, etc.



### Features

- ▶ Flexible Dante Network amplifier with DSP with both 100V line and 8ohm Software selectable
- ▶ Local analog audio input selection
- ▶ Built-in DSP digital processor
- ▶ Network TCP/IP control for multiple device management
- ▶ Support multiple on line modes: USB, TCP/IP, RS232, RS485
- ▶ Real-time remote monitoring of power amplifier working status
- ▶ Support balanced XLR input and unbalanced RCA input
- ▶ Support stereo, bridge, mono, free matrix mode, one-button switching

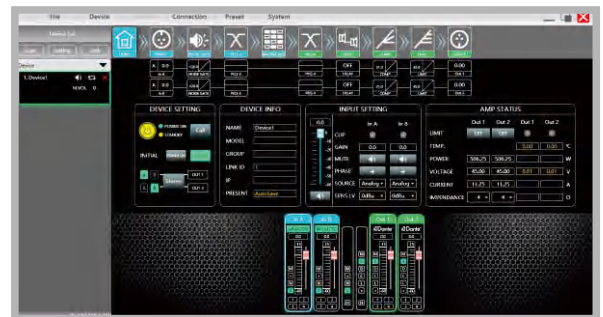
### Ordering code:

**MA-1000T V2**  
2X450W mixer amplifier with DSP

**MA-1000TD V2**  
2X450W mixer amplifier with DSP and Dante

**MA-2000T V2**  
4X450W mixer amplifier with DSP

**MA-2000TD V2**  
4X450W mixer amplifier with DSP and Dante



Control software

Model	MA-1000T V2/MA-1000TD V2	MA-2000T V2/MA-2000TD V2
Output Power	2*450w at 4ohm; or 1*600W at 8ohm bridged, 1*900W 100V line bridged, 1*612W 70V line bridged	4*450w at 4ohm; or 2*600W at 8ohm bridged, 2*900W 100V line bridged, 2*612W 70V line bridged
Output	100V or 4 – 16ohm, DSP software selectable	
Frequency Response	20 – 20,000 Hz, +/- 0.5dB at 1W, 8ohm	
THD	Less than 0.1% at 1W to full load	
S/N Ratio	6dBu and 0dBu at 94dB	
Input EQ	15 Bands	
Output EQ	10 Bands	
Cooling	Internal 12VDC fan, extensive heat sinking	
Display	320*240 res, IPS colored	
Dante interface	2 Channel	
Power Requirements	100-264V AC, 50/60 Hz	100-246V AC, 50/60 Hz
Dimensions	44.5(H) x 483(W) x 300(D) mm	
Built-in Dimensions	1 U rack 19 inch	
Finish	Panel: Aluminum plate, black; Case: steel plate, black	

## 4-CH Class-D Mixer Amplifier with Audio Sources, Dante and DSP

### Description

MA-3600TD V2 is a multi-function network DSP digital High-Z and low-Z power amplifier. It can remotely monitor the status of power amplifier, set compression Controller, limiter, noise gate, parametric equalization, matrix routing, delay and other DSP functions in real time. Simple software interface provides customers with simple setup and operation experience, and a variety of connection methods ensure its good configurability and expandability, suitable for various applications, such as performance center, theatre, gallery, hotel, conference center, shopping center, retail store, restaurant, etc.



Control software

### Features

- ▶ Supports dual backup functionality for digital and analog audio signals
- ▶ TCP/IP network control for managing multiple devices
- ▶ Remote power on/off functionality
- ▶ Built-in DSP digital processor
- ▶ Supports multiple connection methods: USB, TCP/IP, RS232, RS485
- ▶ Real-time remote monitoring of amplifier status
- ▶ On-site amplifier identification via software
- ▶ Supports balanced XLR input and Spoken output
- ▶ Stereo, bridge, mono, and free matrix modes with one-click switching
- ▶ Adjustable input sensitivity: 0dBu (0.775V)/6dBu (1.546V)/12dBu (3.084V), set via software
- ▶ Power-on state can be set to Power On/Standby
- ▶ Supports both constant voltage (100V, 70V) and low impedance (8 ohms, 4 ohms)
- ▶ Software control allows simultaneous management of media matrix and professional processors
- ▶ Supports multiple control methods: TCP/IP, RS232, RS485, USB
- ▶ Equipped with FIR phase correction, 4 channels with 2048 taps each
- ▶ Dual network ports allow for controlling up to 5 devices
- ▶ Supports AES/EBU input



Model	MA-3600T V2	MA-3600TD V2
Type	4-CH Amplifier with DSP	4-CH Amplifier with DSP and Dante
Output Power	4*900W at 4ohm; or 4*600W at 8ohm, or 4*300W at 16ohm. Switchable to 2*1250W at 100V, 2*615W at 70V	
Max. output voltage	69V	
Max. output current	15A	
Min. load output	4 $\Omega$ /channel	
Input connector	4*XLR	
Output connector	4*SpeakOn	
Max. input level	12dBu sensitivity (17dBu, 5.484V) 6dBu sensitivity (17dBu, 5.484V) 0dBu sensitivity (17dBu, 5.484V)	
Sensitivity	12dBu sensitivity (27dB) 6dBu sensitivity (33dB) 0dBu sensitivity (39dB)	
SNR	12dBu sensitivity (103dB) 6dBu sensitivity (98dB) 0dBu sensitivity (93dB)	
Frequency response	20Hz to 20kHz ( $\pm 0.5$ dB) @1W, 8 $\Omega$	
THD+N	<1% @1W, 8 $\Omega$	
Sampling	48k / 24bit	
Dante in option	4 input channels	
Display	320*240 IPS colourful display	
Protections	DSP limiter, high temperature, DC, high frequency, short circuit, back EMF, peak current limiter, Back EMF, Surge current limiter, startup delay, power circuit breaker protection, power over voltage/under voltage protection	
Power requirement	AC100~240 50/60Hz	
Net weight/Gross weight	5.6kg/6.2kg	
Product size	483mm*309mm*44.5mm	
Package size	520mm*442mm*90mm	



**Project Amplifiers with Media player**

**Controls**

**Front :** 5 MIC and 2 AUX Input Volume Control, Tone Volume control and Master Volume Control.

**Rear :** 5 Phantom Power Switch and 5 Priority contact closure for MIC1-5, 2 Gain Control for AUX1-2. Emergency Input Volume Control and Priority contact closure, Ground Lifting Switch.

► **Connectors**

**Input :** 5 XLR Electric Balanced with Phantom power and 5 Euro block for Priority contact closure for MIC.  
2 RCA Stereo for AUX.  
1 RCA Unbalanced AMP IN.  
1 Euro block Balanced Emergency Alarm input with Priority contact closure.

**Output :** 1 XLR Balanced Line output.  
1 Euro block for Amplifier Output 4  $\Omega$ , 70V, 100V.  
1 RCA Unbalanced PRE OUT.  
1 Euro block for Surety Paging Relay.

► **Indicators :** SIG, -10dB, CLIP, Protect and Power.

► **Protection :** Output Current Limiting, Thermal Protection.

► **Cooling :** FAN Cooling.

Model	PM-120	PM-240
Rated Power (RMS)	120W	240W
Input sensitivity / Impedance	MIC 1-5	-50dB / 600 $\Omega$ Balanced
	Aux 1-2	-6dB / 20 k $\Omega$ Unbalanced
	Emergency Alarm	0dB / 10 k $\Omega$ Balanced
Output level / Impedance	Speaker Output	Hi-z 100V (83 $\Omega$ ), 70V (42 $\Omega$ ) 100V (42 $\Omega$ ), 70V (21 $\Omega$ )
		Low-z 22V (4 $\Omega$ ) 31V (4 $\Omega$ )
	PRE Out & AMP In	0dB / 20 k $\Omega$ Unbalanced
	Line Out	0dB / 10 k $\Omega$ Balanced
Frequency Respose (-3dB)	75Hz - 18kHz	
T.H.D (1kHz, Rated Power)	<1%	
Signal to Noise Ratio	>80dB	
Tone Control	$\pm$ 10dB 100Hz, 10KHz	
Power Source	AC 115 / 230 V, 50/60Hz	
Weight (Net)	9 kg	11 kg
Dimensions (W x H x D)	420 x 88 x 320mm	

## 4-Channel Amplifier with DSP

### Description

PA Series is a multifunctional network DSP digital power amplifier, which can remotely monitor the status of the power amplifier in real time, and it can set the compressor, limiter, noise gate, parametric equalization, matrix routing, delay as well as other DSP functions in real time. A simple software interface provides customers with simple and convenient settings and operating experience. Besides, the multiple connection methods can achieve good configurability and scalability, which is suitable for various environments.



### Features

- ▶ Optional for Dante network audio
- ▶ With network TCP/IP control, and it can realize the management of multiple devices
- ▶ Power on or off remotely
- ▶ Use 4.3 inch IPS capacitive touch screen
- ▶ With built-in DSP digital processor
- ▶ Support multiple connection method: USB, TCP/IP, RS232, RS485
- ▶ Monitor the working status of the power amplifier remotely in real time
- ▶ The power amplifier can be identified by software on site
- ▶ Switch to bridging or matrix mode freely
- ▶ Three levels of input sensitivity can be adjusted 0dBu/6dBu/12dBu software or color LCD screen setting
- ▶ With standard FIR function, support 4 × 2048 Taps
- ▶ Support constant voltage and constant resistance: 100V, 70V, 8
- ▶ Software control, it can control media matrix and professional processor at the same time
- ▶ Wide voltage operation 180-264VAC



### Ordering code

#### PA-41500TDV2

4\*1500W@8Ω, 4\*2000W@4Ω, 100V (4\*1250W); 70V (4\*600W); Amplifier with DANTE AND DSP

#### PA-41500TV2

4\*1500W@8Ω, 4\*2000W@4Ω, 100V (4\*1250W); 70V (4\*600W); Amplifier with DSP

#### PA-41000TDV2

4\*1000W@8Ω, 4\*1800W@4Ω, 100V (2\*1250W); 70V (4\*600W); Amplifier with DANTE AND DSP

#### PA-41000TV2

4\*1000W@8Ω, 4\*1800W@4Ω, 100V (2\*1250W); 70V (4\*600W); Amplifier with DSP

#### PA-4800TDV2

4\*800W@8Ω, 4\*1600W@4Ω, 100V (2\*1250W); 70V (4\*600W); Amplifier with DANTE AND DSP

#### PA-4800TV2

4\*800W@8Ω, 4\*1600W@4Ω, 100V (2\*1250W); 70V (4\*600W); Amplifier with DSP

### Applications

- Performing Arts Center
- Gym
- Conference
- Retail Store
- Opera
- Hotel
- Shopping Mall
- Restaurant

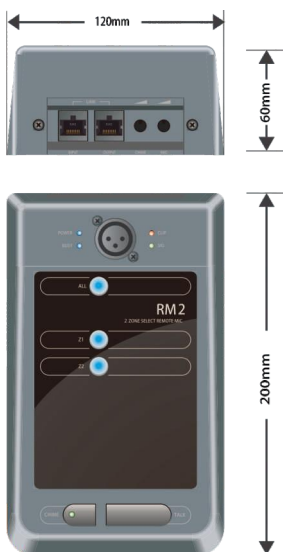
Model	PA-41500TV2	PA-41000TV2	PA-4800TV2
Channels	4	4	4
Rated power	4*1500W@8Ω, 4*2000W@4Ω, 100V (4*1250W); 70V (4*600W);	4*1000W@8Ω, 4*1800W@4Ω, 70V (4*600W)	4*800W@8Ω, 4*1600W@4Ω, 70V (4*600W)
Bridge power	2*3200W@8Ω	2*3200W@8Ω; 100V (2*1250W)	2*3200W@8Ω; 100V (2*1250W)
Minimum output impedance	4Ω for each channel	4Ω for each channel	4Ω for each channel
Input	Balanced input, 4*XLR	Balanced input, 4*XLR	Balanced input, 4*XLR
Output	4*Spoken; 4*Terminal	4*Spoken; 4*Terminal	4*Spoken; 4*Terminal
Maximum input level	20dBu/7.75V	20dBu/7.75V	20dBu/7.75V
Sensitive	12dBu:31dB/6dBu:37dB/0dBu:43dB	12dBu:29.3dB/6dBu:35.3dB/0dBu:41.3dB	12dBu:28.3dB/6dBu:34.3dB/0dBu:40.3dB
Signal to noise ratio	103dB@12dBu/1kHz	103dB@12dBu/1kHz	103dB@12dBu/1kHz
Frequency	20Hz ~ 20kHz (±0.5dB) @1W, 8Ω	20Hz ~ 20kHz (±0.5dB) @1W, 8Ω	20Hz ~ 20kHz (±0.5dB) @1W, 8Ω
THD+N	<0.08%@1W	<0.08%@1W	<0.08%@1W
Sampling rate	48k/24bit	48k/24bit	48k/24bit
Dante (Optional)	4 Dante channels	4 Dante channels	4 Dante channels
Display	4.3 inch IPS capacitive touch screen	4.3 inch IPS capacitive touch screen	4.3 inch IPS capacitive touch screen
Protection	Audio limiter, high temperature, DC, high frequency, short circuit, back-EMF, peak current limiter, inrush current limiter, start-up delay, power circuit breaker protection, power supply overvoltage/undervoltage protection		
PC software	Software can control media matrix, audio processor, DSP power amplifier, active DSP module		
Power supply	180-264VAC	180-264VAC	180-264VAC

**Public Address 2-CH Stereo Pre Amplifier**
**Features**

- Controls
  - Front : 2 Channel Mic/Line and 6 Channel line input
  - 2 Stereo Output with 2 band tone control
  - Rear : 2 Channel Gain control with 3 band EQ, talkover and Phantom power switch
  - 6 Channel Gain control with Stereo / Mono switch
- Connectors
  - Euro block for 8 input
  - Euro block for 2 output
  - Euro block for priority input and EXT mute
- Indicators: Power, SIG and CLIP for each input channels and SIG -10dB, CLIP for output channel



Model		P82S
Rated Output Level / Impedance		0dB / 600 Ω Balanced
Input sensitivity / Impedance		Mic Input(CH1-2) - 60dB ~ -16dB / 20KΩ Balanced Line Input(CH1-6) - 20dB ~ +4dB / 20KΩ Balanced
Frequency Response (-1dB)		20Hz - 20kHz
T.H.D		< 0.1%
Crosstalk		> 70 dB
Equalization	Mic Input	High : 12 kHz ± 15 dB / Mid : 2.5 kHz ± 15 dB / Low : 80 Hz ± 15 dB
	Output	High : 10 kHz ± 15 dB / Low : 100 Hz ± 15 dB
Hum & Noise		> 90 dB
Power Source		AC 100~240 Volt, 50~60Hz
Weight (Net)		3.33kg
Dimensions (W x H x D)		482 x 44 x 320mm

**2-Zone Paging Microphone for P82S**

**Features**

- Controls
  - Zone selector switch, All & 2 Zones. Talk & Chime switch.
  - Level control volume for MIC and Chime output.
- Connectors
  - RJ45 to connect with Model P82S.
- Indicators: Power, Busy, Signal, Clip.



Model		RM-2
Rated Output Level / Impedance		0dB / 600 Ω Balanced
Input sensitivity / Impedance		-36dB / 20kΩ Balanced
Frequency Response (-1dB)		80Hz - 15kHz
T.H.D		< 0.1%
Hum & Noise		> 90 dB
Number of Zone		2 Zones
Weight (Net)		750g
Dimensions (W x H x D)		120 x 60 x 200mm (only body)

**Power Amplifier**
**Description:**

The HA series amplifiers are comprehensive, all-in-one desktop type mixer-amplifier solutions for commercial and industrial applications. These low-cost units provide all necessary features in a simple building.

**Features:**

- ▶ Two line inputs with Euro block and RCA jack.
- ▶ Acceptable wide range input level.
- ▶ 60Watts ~ 480Watts output.
- ▶ Advanced protection system includes current limiting, over current and thermal protections.
- ▶ Desktop type with rack mount bracket
- ▶ Two bands tone controls
- ▶ Low distortion and low noise level
- ▶ Compact size and light weight
- ▶ Ideal commercial and industrial use

**Functions:**

- ▶ Controls  
Front: 2 Channel Volume Control & Tone Control .  
Rear: Parallel selector, 100V/8ohm selector, HPF Switch.
- ▶ Connectors  
Euro Block for Channel 1-2 Input and link output.  
RCA for Channel 1-2 Input.  
Euro Block for Speaker Output.
- ▶ Indicators : Power, Signal, Signal, Clip and Protect.
- ▶ Protection : Current Limiting, Thermal & DC Offset Protection.
- ▶ Cooling : FAN Cooling.



**2\*240W at 8ohms, Bridge 100V at 1\*480W**



**4\*240W at 8ohms, Bridge 100V at 2\*480W**

**1PC Rack Mount:**
**HA-BRC**

**2PCs Combined Rack Mount:**
**HA-BRC2**


Model	HA-160/260	HA-1120/2120	HA-1250/2250	HA-1500/2500
Rated Power at 8ohm	2x30W/4x30W	2x60W/4x60W	2x120W/4x120W	2x240W/4x240W
Bridged Power at 100V	60W/2x60W	120W/2x120W	240W/2x240W	480W/2x480W
Input sensitivity / Impedance	-0dBu/10kohm Unbalanced / Balanced			
Power Supply Voltage	AC115 or 230V 50/60Hz			
Power Consumption	105W/195W	195W/360W	325W/635W	588W/1120W
Speaker Output	100V / 8Ω			
Frequency Response	80Hz~17KHz ( +1dB /-3dB )			
S/N Ratio	>80dB (with A-Weight)			
T.H.D	<1% (at rated power, 1kHz)			
Working Humidity	90%			
Output Channel	1 or 2 channel			
Tone Controls	Bass:100Hz(±10dB), Treble:10KHz(±10dB)			
Working Temperature	0°C~+40°C			
Product Dimension (WxHxD)	215*44*330 mm (Half-U)			
Net Weight	3.5kg	3.3kg	3.3kg	3.3kg



**2/4-Channel Class D Power Amplifier**
**PD-2/PD-4 Series**

High efficient design can boost up to 2000W in high impedance 100V line with low energy consumption

**Description**

Highly flexible class D amplifiers available at 60W, 120W, 240W, 350W and 500W RMS Power, 4 channels respectively, and equipped with phoenix 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.

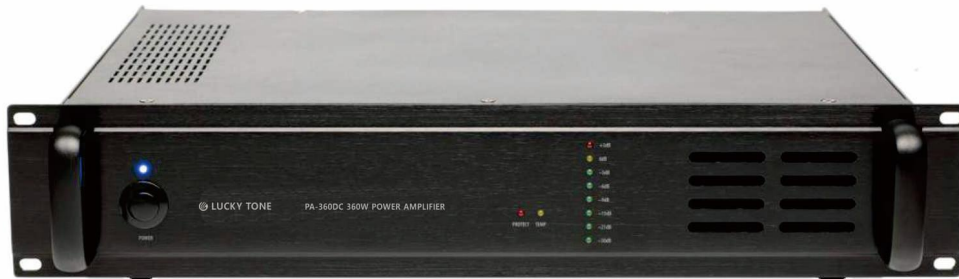

**Features**

- ▶ High efficient at 80 to 90% conversion rate
- ▶ Light weight and compact 1U design
- ▶ Grounding connection
- ▶ Reliability. High quality electronic components and each channel has separated isolation to ensure one fail will not affect others.
- ▶ Individual volume control for each channel
- ▶ LED level meter
- ▶ Speaker output short circuit protection

Model	PD-260 V2 PD-460 V2	PD-2120 V2 PD-4120 V2	PD-2240 V2 PD-4240 V2	PD-2350V2 PD-4350V2	PD-2500V2 PD-4500V2
Description	2/4 Channel Class-D Power Amplifier				
Rated Power at 100V	2/4x60W	2/4x120W	2/4x240W	2/4x350W	2/4x500W
Rated Power at 8 ohm	2/4x60W	2/4x120W	2/4x240W	2/4x320W	2/4x350W
Frequency Response	H Cut OFF 20Hz-20KHz (+1/-2dB) H Cut ON 70Hz-20KHz (+1/-3dB)				
Input	0.775V, 0dBu, balanced phoenix connector by four channels				
Input Impedance	10K $\Omega$				
THD	<0.1% (1KHz/-3dBv, 100W)				
S/N Ratio	>80dB				
Crosstalk	>60dB, 1KHz, Max output				
Power Consumption	160W/300W	280W /550W	520W /1100W	750W /1650W	1050W/2100W
Power Supply	AC 100-240V, 50-60Hz				
Dimension	484x420x44 mm				
Weight	8.8Kg/11.2kg	7.0kg /8.3kg	7.3kg /8.8kg	7.8kg /9.2kg	8.2kg/9.8kg

**Power Booster Amplifier with 24VDC**
**Steady and powerful performance**

PA-120DC     @ 120W RMS Power  
 PA-240DC     @ 240W RMS Power  
 PA-360DC     @ 360W RMS Power


**► Description:**

This range of amplifier is designed for commercial and industrial grade public address application. With efficiently components, it delivers 120 to 360 watts of clean, reliable audio for the most demanding public address applications.

Rugged and over-built to give years of dependable service, they are equipped with massive torrodial power transformers, extensive heat-sinking and fan cooling, protective circuits such as over-temperature, short circuit, RFI, clip, overload and soft start.

**Features:**

- Flexible power rating of 120/240/360W
- 400Hz high pass filter for horn connection
- 100V, 70V and 40hms transformerisolated speaker outputs
- Combination XLR input with XLR Link out connectors
- Ground selectable with frame and float

Model	PA-120DC	PA-240DC	PA-360DC
Rated Power Output	120W	240W	360W
Amplification	Analog 100V Transformer Type		
Output	100V, 70V and 4 Ohms		
Frequency Response	60 – 20,000 Hz, +/- 3dB		
THD	Less than 1% at 1kHz (1/2 Rated Power)		
S/N Ratio	Better than 90dB		
Gain Controls	-12dB to 0		
Controls	Gain control and power switch		
Cooling	Internal 12VDC fan, extensive heat sinking		
Indicators	Power, Clip, Signal, Protect, and Temp LEDs		
Power Consumption	260W	500W	760W
Power Requirments	220-240V AC, 50/60 Hz; 24VDC		
Dimensions	89(H) x 483(W) x 366(D) mm		
Built-in Dimensions	2 U rack 19 inch		
Carton Dimensions	185(H) x 520(W) x 435(D) mm		
Net Weight	13.12kg	17.66kg	20.8kg
Gross Weight	16.76kg	19.30kg	22.3kg
Finish	Panel: steel plate, black Case: steel plate, black		

REAR PANEL



**Powerful Booster Amplifier**
**Steady and powerful performance**

PA-360W @ 360W RMS Power

PA-460W @ 460W RMS Power

PA-660W @ 660W RMS Power


**► Description:**

This range of amplifier is designed for commercial and industrial grade public address application. With efficiently components, it delivers 360 to 660 watts of clean, reliable audio for the most demanding public address applications.

Rugged and over-built to give years of dependable service, they are equipped with massive toroidal power transformers, extensive heat-sinking and fan cooling, protective circuits such as over-temperature, short circuit, RFI, clip, overload and soft start.

**Features:**

- Flexible power rating of 360/460/660W
- Master Volume control in the front
- 100V, 70V and 4-16 Ohms transformer isolated speaker outputs
- Combination XLR/RCA Line In and Line Out connectors
- LED status indicators
- Speaker output short circuit protection

Model	PA-360W	PA-460W	PA-660W
Rated Power Output	360W	460W	660W
Output Regulation	Less than 3 dB (no load to full load)		
Output	775V, 0dB, XLR and phone jack		
Frequency Response	60 – 16,000 Hz, +/- 3dB		
THD	Less than 0.5% at 1kHz (1/3 Rated Power)		
S/N Ratio	Better than 73dB		
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	AC Fuse: 12A	AC Fuse: 15A
	Current limiter, short circuit and thermal protection circuits		
Power Consumption	485W	620W	880W
Power Requirements	220-240V AC, 50/60 Hz		
Dimensions	89(H) x 483(W) x 366(D) mm		
Built-in Dimensions	2 U rack 19 inch		
Carton Dimensions	185(H) x 520(W) x 435(D) mm		
Net Weight	15.12kg	17.66kg	20.8kg
Gross Weight	16.76kg	19.30kg	22.3kg
Finish	Panel: steel plate, black Case: steel plate, black		

REAR PANEL



**Powerful Booster Amplifier**

Steady and powerful performance

PA-1000W @ 1000W RMS Power  
PA-1500W @ 1500W RMS Power


**► Description:**

This range of amplifier is designed for commercial and industrial grade public address application. With efficiently components, it delivers 1000to 1500 watts of clean, reliable audio for the most demanding public address applications.

Rugged and over-built to give years of dependable service, they are equipped with massive torrodial power transformers, extensive heat-sinking and fan cooling, protective circuits such as over-temperature, short circuit, RFI, clip, overload and soft start.

**Features:**

- Flexible power rating of 1000W/1500W
- Master Volume control in the front
- 100V, 70V and 4-16 Ohms transformerisolated speaker outputs
- Combination XLR/RCA Line In and Line Out connectors
- LED status indicators
- Speaker output short circuit protection

Model	PA-1000W	PA-1500W
Rated Power Output	1000W	1500W
Output Regulation	Less than 3 dB (no load to full load)	
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 Current limiter, short circuit and thermal protection circuits	
Power Consumption	1350W	2000W
Power Requirments	220-240V AC, 50/60 Hz	
Dimensions	133(H) x 483(W) x 366(D) mm	
Built-in Dimensions	3 U rack 19 inch	
Carton Dimensions	185(H) x 520(W) x 435(D) mm	
Net Weight	25.0kg	27.0kg
Gross Weight	27.5kg	30.0kg
Finish	Panel: steel plate, black Case: steel plate, black	

REAR PANEL





**2-CH 100V to Line Audio Converter**
**Description:**

This device is a high to low level converter designed to interface with 100V distributed speaker lines. Ideal for signal transmission over long distances or supplying an auxiliary output from PA amplifiers or from a 100V audio signal source to the units with line input.

And very useful if extending or adding to existing installs as it negates the need to run new cables from existing amplifier or main equipment, simply tag onto the 100V loudspeaker circuit and feed the output into a local amplifier.

**Features:**

- ▶ 2CH Speaker Level to Line Level Conversion
- ▶ Works with 100V Speaker Systems
- ▶ Two Phoenix Connectors of Input
- ▶ Two RCA Connectors of Output
- ▶ Cable Management System
- ▶ Multiple Mounting Configurations
- ▶ Wide Bandwidth Frequency Response
- ▶ No External Power Required
- ▶ Compact Chassis Design

**Audio Applications**

- ▶ System Isolation
- ▶ Level Matching
- ▶ Add a Zone Anywhere a Speaker System Exists



Model	LT-100VL
System	2CH High Level to Line Level Converter
Chassis	Color Black
Chassis Material	Aluminum
Input	High Level Input: Phoenix connector – Qty 2
Output	Line Level Output: RCA connector – Qty 2
Power Requirement	None
Dimension	136mm(W) x 80mm(D) x 30mm(H)
Net weight	0.45kg

## 160-Zone Paging Station

### Features:

- ▶ Paging up to 16pcs of AL10P at 160 zones
- ▶ Long distance at 1KM
- ▶ Built-in pleasant chime
- ▶ High resolution LED showing the address of AL-10P paging to
- ▶ With high sensitivity gooseneck microphone and line in
- ▶ Up to 4pcs of AL-10R for the system
- ▶ Automatic mute function
- ▶ All call function

Flexible with long distance audio transmission!



Model	AL-10R
Input	Gooseneck mic: 600 ohms, 5mV, unbalanced, XLR Line in: 10k ohms, 775mV, unbalanced, RCA jack Line out: bigger than 775mV.(0dB) unbalanced
Control zones	Channel 1 to 10
Frequency Response	MIC:100Hz – 10kHz (+/- 3dB); Line: 20Hz – 15kHz
S/N Ratio	Better than 70dB
THD	Less than 0.1% at 1kHz
Power consumption	5-10W
Power Requirements	220-240V AC, 50/60 Hz
Dimensions	80(H) x 75(W) x 205(D) mm

## 10-Channel Paging Selector

### Features:

- ▶ Paging up to 10 speaker zones
- ▶ With 10 try contact in and out
- ▶ Built-in pleasant chime
- ▶ With 1 mic, 2 aux and 4 remote paging microphone inputs
- ▶ 4 priority levels MIC1 highest priority to EMC MIC, remote paging MIC and aux as last
- ▶ LED indicator for all the zones



Model	AL-10P
MIC Input	600 ohm 5mv, unbalance
Line input	10 K ohm, bigger or equals to 220mv unbalance
Line output	Bigger than 775mV at 0dB, Unbalance
Freq. response	MIC 100Hz-15KHz; Line 60Hz-15KHz at +/- 3dB
THD	Less than 0.01% at 1KHz
S/N Ratio	Bigger than 70dB
Protection	AC Fuse: 0.5A
Mute attenuation	Line 1 and MIC mute line 2 at 0-30dB
Power Requirements	220-240V AC, 50/60 Hz
Dimensions	89(H) x 483(W) x 366(D) mm
Built-in Dimensions	2 U rack 19 inch
Net Weight	6.4kg

## Pre-Amplifier

### Features:

- ▶ The AL-11P is a versatile mixer pre-amplifier with 4 microphone inputs, 3 auxiliary inputs, 2 emergency inputs (high priority) and mute function.
- ▶ MIC1, EMC1, EMC2 are priority inputs, automatically muting all other signal inputs. MIC1 has the highest priority, able to suppress all other inputs.
- ▶ With bass and treble control, automatic mute function for paging and individual gain control for all the inputs.



With multi versatile inputs



Model	AL-11P
Input	MIC 1, 2, 3, 4: 600 ohms, 5mV, unbalanced, phone jack AUX 1, 2, 3: 10k ohms, 200mV, unbalanced, RCA jack EMC 1, 2: 10k ohms, 200mV, unbalanced, phone jack
Output	600 ohms, 775mV, 0 dB, RCA jack
Frequency Response	60Hz – 15kHz (+/- 3dB)
S/N Ratio	Better than 70dB
THD	Less than 0.1% at 1kHz
Tone Controls	BASS: 100 Hz (+/- 10dB), TREBLE: 12k Hz (+/- 10dB)
Muting Function	MIC1 overrides other input signals with 0°30 dB attenuation EMC1 overrides other input signals except MIC 1
Power Requirements	220-240V AC, 50/60 Hz
Dimensions	89(H) x 483(W) x 366(D) mm

## 10-Channel Monitor Panel

### Features:

- ▶ With built-in high fidelity loudspeaker monitoring up to 10 zones. 6 LED dB level meter clearly indicate the channel level status.
- ▶ The monitoring volume is adjustable as well as the 10 channel position selection.



Model	AL-10M
Input	70/100V audio signal
Monitored Channels	10
Audible Monitor	Full-range loudspeaker, 500mW
Visual Monitor	6-element LED display, infinite, 0, 2, 4, 6, 8, 10 dB
Controls	Monitor volume, channel select and power switch
Indicators	Power LED
Protection	AC Fuse: 0.5A
Power Consumption	10-15 watts
Power Requirements	110-120V or 220-240V AC, 50/60 Hz; 24VDC
Dimensions	89(H) x 483(W) x 366(D) mm
Built-in Dimensions	2 U rack 19 inch
Net Weight	6.1kg

## 16-Zone Speaker Selector

### Features:

- This speaker selector controls up to 16 speaker outputs and 4 audio inputs.
- Flexible multi-input speaker selector arranged in a 4 x 4 matrix with priority override. 16 speaker zones are divided into 4 groups, each group can have a separate audio source.
- A priority bus is provided to mute background music for zone paging and emergency alarms.



Model	AL-16S4
Input	4 program and 1 priority channels, 70/100V audio signal
Speaker Output	4 groups of 4 zones, 70/100V audio signal
Priority Bus	16 channels, activated by 0V signal
Power Handling	1.5kW total capacity, 375W per channel
Alarm Output	0V signal
Controls	16 pushbutton zone selectors, 1 power switch
Power Requirements	110-120V or 220-240V AC, 50/60 Hz; 24VDC
Dimensions	89(H) x 483(W) x 366(D) mm

## 2\*5 10-Zone Speaker Selector

### Features:

- High power handling and flexible model with 2 amplifier inputs and 2 groups of speaker outputs the AL-10S2
- Two 5-zone speaker selectors with separate audio sources or as a 10-zone selector with a single audio source.



Model	AL-10S2
Input	2 program channels, 70/100V audio signal
Speaker Output	2 groups of 5 zones, 70/100V audio signal
Priority Bus	N/A
Power Handling	1.5kW total capacity, 150W per zone
Alarm Output	N/A
Controls	10 pushbutton zone selectors, 1 power switch
Power Requirements	110-120V or 220-240V AC, 50/60 Hz; 24VDC
Dimensions	89(H) x 483(W) x 366(D) mm



**10-Zone Speaker Selector**
**Features:**

- ▶ With flexible A/B amplifier inputs for auto switch from BGM and Emergency amplifier
- ▶ Control up to 10 speaker zone outputs
- ▶ Essential for analog medium PA system
- ▶ LED status indicators
- ▶ 10-channel priority bus
- ▶ 2 alarm activation outputs


**Model**
**AL-10S**

Input	1 program and 1 priority channels, 70/100V audio signal
Speaker Output	1 group of 10 zones, 70/100V audio signal
Priority Bus	10 channels, activated by 0V signal
Power Handling	1.5kW total capacity, 150W per zone
Alarm Output	0V signal
Controls	10 pushbutton zone selectors, 1 power switch
Power Requirements	110-120V or 220-240V AC, 50/60 Hz; 24VDC
Dimensions	89(H) x 483(W) x 366(D) mm

**DCM-100M**
**Description:**

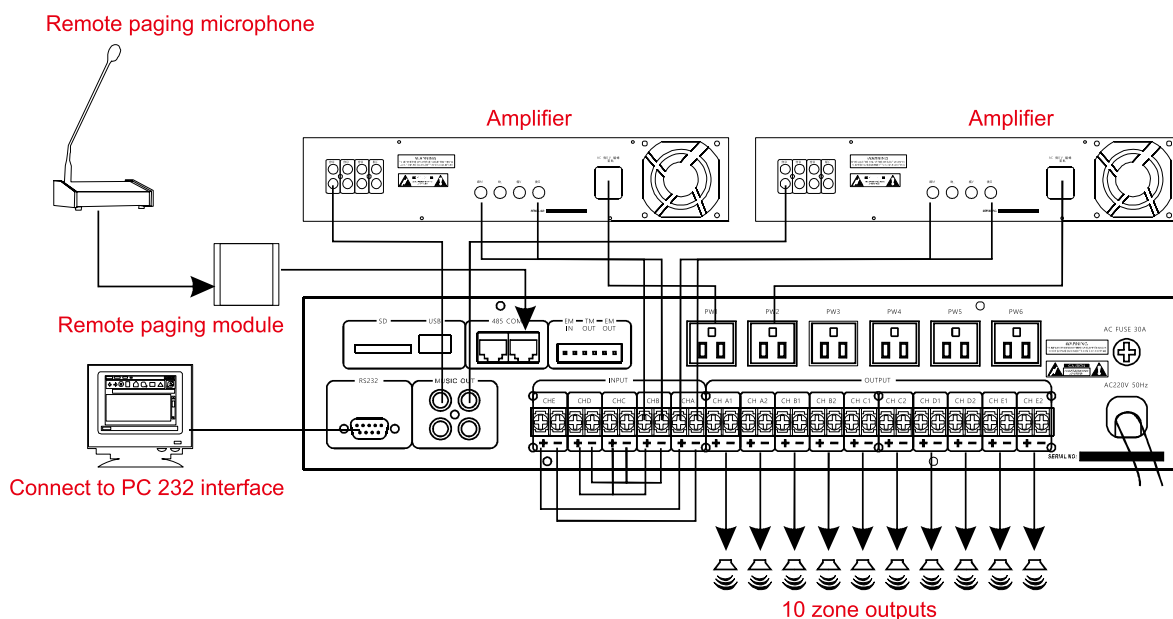
Master Control Unit DCM-100M is with built-in Mp3, USB, and programmable timer to control a small to medium PA system of 10 Zones, it can connect up to 5pcs of power amplifier and with remote control microphone.


**Features:**

- ▶ With 192\*164 LCD display screen to see the status
- ▶ 10 individual zone for programmed or manual control
- ▶ 6 universal power supply for programmed control
- ▶ With built-in USB, Mp3, and set program to play audio tasks to specific zones as well as for the aux inputs
- ▶ Support zone paging microphone for up to 1KM remote paging  
And support multiple remote microphones
- ▶ cost of ownership and high reliability
- ▶ Support RS 232 protocol control

**SPECIFICATIONS**
**DCM-100M**

COM SPEED	9600bps
Mp3 FREQUENCY RESP.	20Hz-20KHz/±1dB
Mp3 S/N	95dB
STORAGE	SD card / USB
Mp3 FORMAT	FAT16 / FAT32
AUDIO OUTPUT	1K OHM / 1V UNBAL
AUDIO DISTORTION	0.1%
FREQUENCY RESP.	30HZ-20KHZ
TIME DISPLAY	24HOUR
COM PORT	RJ45
PROTOCOL	RS485
PC PROTOCOL	RS232
ALARM IN VOLT LEVEL	SHORTCIRCUIT 0V
ALARM OUT VOLT LEVEL	SHORTCIRCUIT 0V
POWER CONTROL VOLT	SHORTCIRCUIT 0V
POWER SUPPLY	~220V/50HZ
AC CAPACITY	6KVA, EACH 3KVA
CONSUMPTION	20W
PROTECT	AC FUSE 30A
SIZE	485X357X88MM
WEIGHT	6.5KG



**8-Channel Pre-Amplifier**
**Features:**

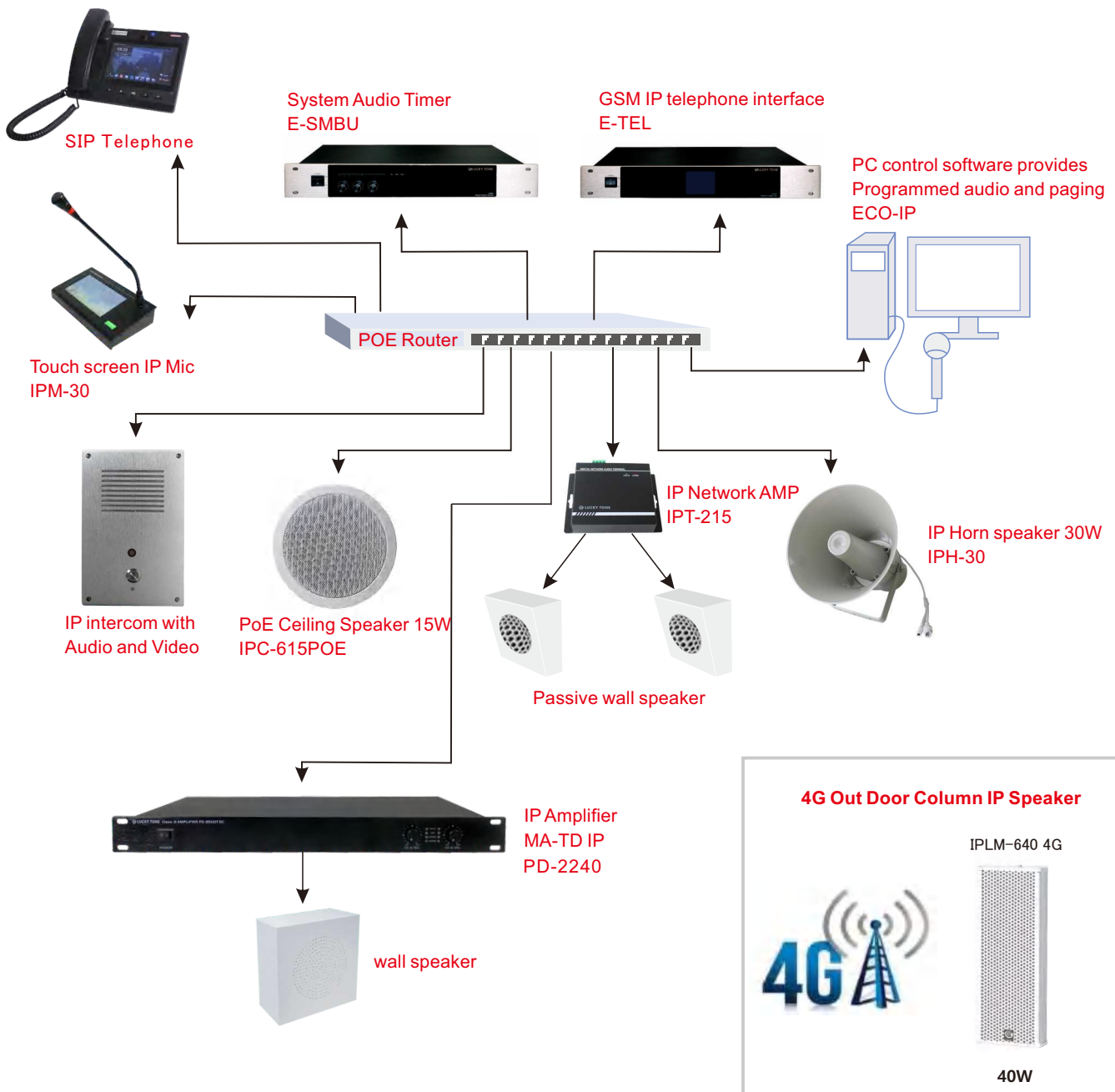
- ▶ The DCM-8PA is a versatile pre-amplifier with 8 line/mic inputs, 1 emergency input and 1 microphone input on the front panel
- ▶ EMC is priority inputs, automatically muting all other signal inputs.
- ▶ MIC on the front panel has the highest priority, able to suppress all other inputs.
- ▶ With automatic mute function for paging
- ▶ Can adjust the volume of 8-Channel input and the Mic input independently


**Model**
**DCM-8PA**

Input Channel	10 Channel(8-Line/Mic, 1-EMC, 1-MIC)
Output Channel	8 Channels
Frequency Response	20Hz~20KHz
SNR	MIC: 65Db, LINE: 85dB
Power Consumption	20W
Power Supply	AC220V/50Hz
Product Size	485 × 357 × 88mm
Net Weight	4Kg

In applications such as modern school campus, prison, tunnels and factories, a flexible IP based system is required to address the needs of multiple independent sub-controls, individual broadcast of local message, frequent switching of zone assignment, time scheduled management and easy extension.

MEGA IP based PA system is adopting standard TCP/IP platform and mature VoIP technology for extension and audio streaming. It features with powerful network audio matrix support up to 60 audio routing at the same time. With a PC based management system and IP audio terminals, multicast of audio in terms of play list broadcast, time schedule broadcast, zone broadcast can be made through user friendly interface and individual broadcast within each terminal, point to point intercommunication is achievable at the same time. It is a cost effective solution dedicate to a decentralized PA system.





## System Manager

### Features:

- ▶ A rugged design professional controller where system server and user interface installed to manage the whole system over TCP/IP network
- ▶ With 15 or 17 inch industrial grade touch screen with easy control of the entire system
- ▶ Functioned with advanced PA features including time schedule broadcast management, paging console, zone broadcast, etc. via user friendly interface
- ▶ To show status of working of all devices
- ▶ Timed scheduled broadcast
- ▶ Real-time broadcast of external source via A/D converter
- ▶ 8 Units height of the standard 19 inch rack
- ▶ Media storage management
- ▶ Access control

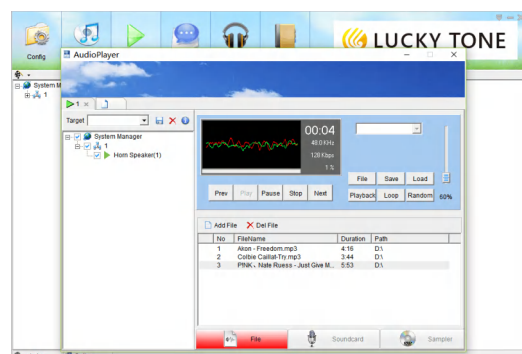
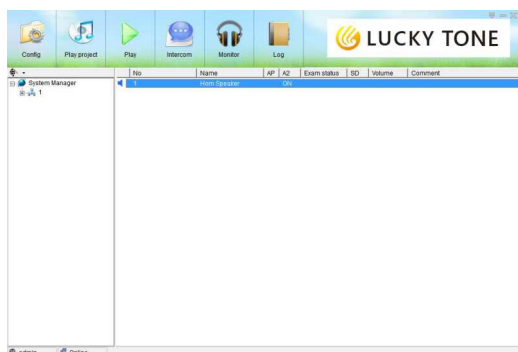


Model	E-SMR 15	E-SMR 17
Screen size	15 inch	17 inch
Screen color	TFT24 bit true color	
Control mode	1024*768 resolution LCD touch screen	
Ambient temperature	5°C-40°C	
Relative humidity	≥ 75%	
Motherboard	New industrial grade Intel industrial mainboard	
Standard interface	1 × LAN network port; 6 × USB; 2 × serial port; 1 × parallel port; 1 × VGA; 1 × HDMI; 4 × lotus input; 4 × lotus output; 1 × 3.5 input; 1 × 3.5 output	
Hard disk	64G SSD	
Memory	DDR3 4G (the capacity will increase continuously due to continuous product upgrades)	
NIC	mainboard integrated network card	
Graphics card	mainboard integrated graphics	
Sound card	mainboard integrated sound card, high-definition audio	
CPU	dual core 2.4GHz	
Dimension	485*335*320mm(W*H*D)	
Packing size	560*380*380mm(L*W*H)	
Maximum power consumption	80W	
Normal power	≤40W	
Other	DVD drive; keyboard; mouse	

## ECO IP Software

### Features:

- ▶ IP System software to control the entire ECO IP System as a necessary software
- ▶ All to play music from PC to the IP terminal and speakers
- ▶ Allow to make announcement from PC to the IP terminal or IP Speakers
- ▶ Support scheduled announcement for unmanned Operations.
- ▶ Support Audio and IP speaker monitoring
- ▶ Support operation Logs
- ▶ Support offline talkback (without server)



## IP Audio Router

### Features:

- ▶ Based on ARM + DSP structure and high speed industry chip, reboot time is less than 1 second
- ▶ With 2 aux inputs; and each with independent volume control.
- ▶ Built-in 3W high fidelity speaker to monitor the sound of the remote IP speaker



- ▶ Stand alone to route audio to the IP network without server.
- ▶ With a standard RJ45 port supportive of crossing network segment and router, accessible to the system if the Ethernet is available

Model	E-ADRT 4
Power Consumption	Less than 300mV
Protocol	IP, ARP, ICMP, DHCP, UDP, DNS, IGMP
Operation Temperature	10 °C – 60°C, <90% RH
Inputs	MIC: 50mVpp, Aux: 1.5vpp
Power requirements	220-240VAC, 50/60Hz

## IP Alarm Matrix

### Features:

- ▶ With 32 alarming short circuit inputs and 1 short-circuit outputs;
- ▶ Multiple IP network alarm matrixes can be used to extend the range of the interfaces
- ▶ To automatically send the alarm signal to the server and broadcast the task programmed in advance



- ▶ With PPT microphone input jack for announcement in case of emergency
- ▶ With a standard RJ45 port supportive of crossing network segment and router, accessible to the system if the Ethernet is available

Model	E-RIPE
Power Consumption	Less than 300mV
Protocol	IP, ARP, ICMP, DHCP, UDP, DNS, IGMP
Operation Temperature	10 °C – 60°C, <90% RH
Inputs	MIC: 50mVpp, Aux: 1.5vpp
Power requirements	220-240VAC, 50/60Hz

**SIP Network Audio Router**
**Features:**

- ▶ Professional SIP audio encoder and decoder to transmit audio signal to all devices in the network
- ▶ Adopt high-speed industrial grade chip, startup in less than 1s
- ▶ Support most of the SIP telephone system like Cisco or Avaya
- ▶ With line out and mic in for audio intercom
- ▶ With built-in microphone for Intercom, will be disable automatically with external mic plug-in
- ▶ With 1 relay input and 1 relay output
- ▶ With audio input for external audio source to target terminals
- ▶ Support offline talkback


**Front**

**Rear**
**Model**
**SIP- RT11**

Network Communication Protocol	SIP
Network Interface	10/100Base-TX, RJ45
Frequency and Sampling Rate	8kHz-32 kHz, 16 bit
Decoding	MPEG,ADPC
Microphone Frequency Range	70Hz~12.5KHz
Operating Temp.	0~65° C
Power consumption	Less than 300mV in static
Power Supply	9- 24 VDC
Dimension	130 x 85 x 30 mm

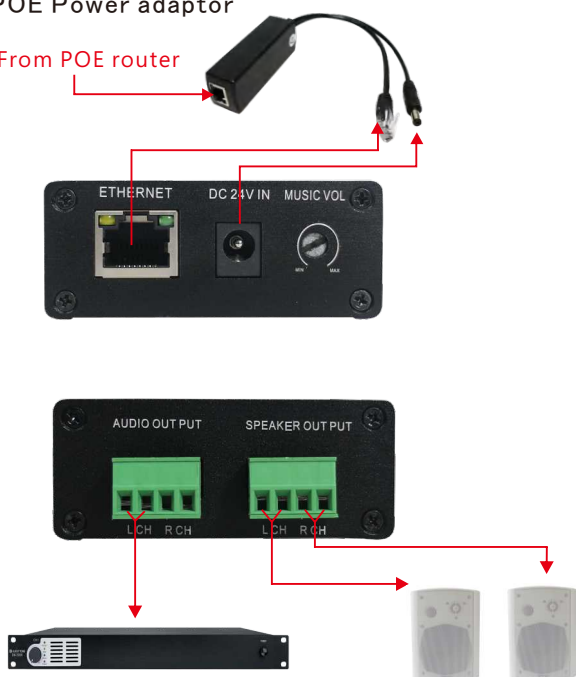
## SIP Wall-Mounted Terminal

### Features:

- ▶ This network terminal with built-in digital amplifier 2\*15 and 2\*30 at high quality sound
- ▶ Empowered by high-speed dual-core (ARM + DSP) chip of industrial grade, startup in less than 1s
- ▶ Compact in Size and easy to install
- ▶ Support MP3, WMA, WAV and more decoding
- ▶ With a standard RJ45 network interface and supports online firmware upgrade from long distance

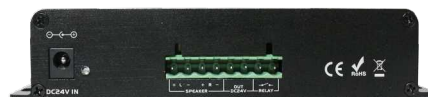
### POE Power adaptor

From POE router



If you need bigger power, can link audio output to external booster amplifier

to 2pcs of 8 ohm speaker at 15W



Model	IPT-215POES	IPT-230S
Network Communication Protocol	SIP	SIP
Network Interface	10/100Base-TX, RJ45	10/100Base-TX, RJ45
RMS Power	2*15W	2*30W@8Ω
Decoding	MP3/WMA/WAV	MP3/WMA/WAV
Frequency Range	20Hz~20KHz	20Hz~20KHz
POE adaptor	Yes	0~85°C
Operating Temp.	0~85°C	No
Power consumption	Less than 300mW	Less than 300mW
Power Supply	DC 12-24V or POE	DC 24V
Dimension	100 x 66 x 26 mm	153 x 100 x 26 mm



## SIP Network Paging Microphone with Intercom

### Description:

With a 10/100M Ethernet interface, line input and output, SIPM-10 is an SIP desktop intercom host that is used with SIP server. SIPM-10 network paging microphone can perform point-to-point IP intercom and multicast to the IP terminal through a microphone or local line input.

As a host of the IP broadcast intercom system, SIPM-10 can be used in places where intercom, monitor and emergency alarms are needed, such as control centers of self-service banks, interrogation rooms, classrooms, hospitals and parking lots.

As an intercom terminal, SIPM-10 supports full-duplex two-way intercom and has good echo suppression. We offer standard sip mode, which can be used in other standard SIP systems and compatible with standard SIP terminal devices.



### Features:

- ▶ Professional SIP Call Station to control and make announcement to all devices in the system.
- ▶ Adopt high-speed industrial grade chip, start-up in less than 1s
- ▶ Support zone paging, and the red indicator will light up when talking
- ▶ Built-in speaker for monitoring and intercom
- ▶ With audio output for external active speaker
- ▶ Support offline talkback (without server)



Model	SIPM-10
Network Communication Protocol	SIP
Network Interface	10/100Base-TX, RJ45
Frequency and Sampling Rate	8kHz-32 kHz, 16 bit
Decoding	MPEG,ADPC
Microphone Frequency Range	70Hz~12.5KHz
Operating Temp.	0~65° C
Power Supply	DC 12V
Dimensions(L*W*H)	150 x 140 x 55 mm
Net Weight	0.6Kg

**SIP Network Paging Microphone with Intercom**
**Features:**

- ▶ Professional SIP Call Station to control and make announcement to all devices in the system.
- ▶ Adopt high-speed industrial grade chip, startup in less than 1s
- ▶ Support zone paging, and the red indicator will light up when talking
- ▶ Built-in speaker for monitoring and intercom
- ▶ With audio output for external active speaker
- ▶ With audio input for external audio source to target terminals
- ▶ Support offline talkback (without server)



Model	SIPM-20 ( Button version)
Network Communication Protocol	SIP
Network Interface	10/100Base-TX, RJ45
Frequency and Sampling Rate	8kHz-32 kHz, 16 bit
Decoding	MPEG,ADPC
Microphone Frequency Range	70Hz~12.5KHz
Operating Temp.	0~65°C
Screen	TFT 2.8" LCD
Power Supply	DC 12V
Dimension	210 x 145 x 55 mm

## SIP Control Station with Touch Screen

### Description:

With a 10/100M Ethernet interface, line input and output, SIPM-30T is an SIP desktop intercom host that is used with SIP server. SIPM-30T network paging microphone can perform point-to-point IP intercom and multicast to the IP terminal through a microphone or local line input.

As a host of the IP broadcast intercom system, SIPM-30T can be used in places where intercom, monitor and emergency alarms are needed, such as control centers of self-service banks, interrogation rooms, classrooms, hospitals and parking lots.

As an intercom terminal, SIPM-30T supports full-duplex two-way intercom and has good echo suppression. We offer standard sip mode, which can be used in other standard SIP systems and compatible with standard SIP terminal devices.



### Features:

- ▶ Stand-alone intercom function
- ▶ Stand-alone paging function
- ▶ Stand-alone unicast and multicast functions
- ▶ Support modify parameters directly on the mic
- ▶ Play Audio from SD or USB to the zones



Model	SIPM-30T
Network Communication Protocol	SIP
Network Interface	10/100Base-TX, RJ45
Frequency and Sampling Rate	8kHz-32 kHz, 16 bit
Decoding	MPEG,ADPC
Microphone Frequency Range	70Hz~12.5KHz
Operating Temp.	0~65° C
Screen	7" touch screen
Power Supply	DC 12V
Dimension	250 x 145 x 55 mm

**Desktop Smart Video SIP Phone with Android System**
**Description:**

SIP-T06 provides complete desk phone solutions with flexible functionality, HD Voice Quality, and highly easy operation. It is absolutely an excellent Smart Video Phone for small to large sized business, as well as mission-critical Enterprise Business.

**Features:**

- ▶ Support 6 SIP lines, 3-way conferencing
- ▶ POE enabled, optional external power supply
- ▶ Support Handset / Hands-free / Headset mode
- ▶ Supports third party communication APP
- ▶ Full Programmable DSS Keys and soft function Keys
- ▶ DSS can support up to 140 Stations
- ▶ Online recording & message forwarding
- ▶ Call conference enhancement
- ▶ Flexible dial plan with auto provision
- ▶ Support LDAP & XML phone book
- ▶ High Interoperability – Compatible with major platforms: 3CX, Asterisk, Broadsoft, Elastix, Zycoo, etc.



Model	SIP-T06
Networking	10/100/1000Mbps Ethernet, dual bridged port for PC bypass
IP Configuration	Static / DHCP / PPPoE
Protocols	SIP2.0 over UDP/TCP/TLS; RTP/RTCP/SRTP; STUN; DHCP; LLDP; PPPoE; 802.1x; L2TP; OpenVPN; SNTP; FTP/TFTP; HTTP/HTTPS; TR-069
<b>Physical Ports</b>	
RJ9 Port x2	Handset x1, Headphone x1
RJ45 Port x2	Network x1, PC x1 (Bridged to Network)
HDMI Port x1	Type A
USB 2.0 Port x2	Mini-B x1, Connect with Flash Driver Standard A x1, Connect with BT USB dongle or Flash Driver
TF card slot x1	TF Card Support Up to 32G
Keypad	5 keys (Headset, Menu, Hands-free, Back, Home)
Screen	7 inch (800x480) capacitance color-screen LCD
Operation System	Android 4.2.2 OS
Video Format	MP4/3GP/FLV
Video CODEC	H.263/H.264
Bandwidth Selection	64kbps~4Mbps
Frame rate Selection	10~30fps
Audio format	WAV/MP3/OGG
Narrowband CODEC	G.711a/u, G.723.1, G.729AB, AMR, iLBC
Wide band CODEC	G.722
Image format	JPEG/PNG/BMP/GIF
Installation	Desktop Stand or Wall-mount
DC Power Input	12V/1A
Power Consumption	Idle 2.5W/Active 5W
Dimensions	Desktop Stand (angles 1): 254.8x154.9x202.8mm Desktop Stand (angles 2): 254.8x167.8x182.4mm Wall-mount: 254.8x118.4x206.9mm
Gift Box Dimensions	290x260x73mm
Outer CTN Dimensions	540x385x310mm (10 PCS)





**SIP-TL2, Indoor 2 button Terminal**  
With built-in 2\*15W 8 ohm amplifier



**SIP-TL1, Indoor 1 button Terminal**

- Professional SIP terminals working with Lucky Tone SIP microphone, other SIP telephones and devices.
- Adopt high-speed industrial grade chip
- Support quiet and noisy environment mode, press to answer or auto answer, hangup on site or remote

- Built-in speaker for intercom
- With audio output for external active speaker
- Can work stand alone without any main control unit

## Outdoor Terminals



**SIP-TLO2, Outdoor 2 button Terminal**  
With built-in 2\*15W 8 ohm amplifier



**SIP-TLO1, Outdoor 1 button Terminal**

Model	SIP-TL indoor	SIP-TLO Outdoor
Network Communication Protocol	TCP, ARP, ICMP, DHCP, UDP, DNS, IGMP	TCP, ARP, ICMP, DHCP, UDP, DNS, IGMP
Network Interface	10/100Base-TX, RJ45	10/100Base-TX, RJ45
Frequency and Sampling Rate	8kHz~32 kHz, 16 bit	8kHz~32 kHz, 16 bit
Power consumption	Less than 300mV	Less than 300mV
Microphone Frequency Range	70Hz~12.5KHz	70Hz~12.5KHz
Operating Temp.	0~65°C	-40~80°C
Weight	0.5kg	0.7kg
Power Supply	DC 12V	DC 12V
Dimension	100 x 160 x 30 mm	150 x 190 x 36 mm

## Outdoor Intercom Terminal with Audio and Video

### Description

This heavy duty SIP intercom product specially developed for the needs of industry users. It has an exquisite appearance and powerful functions. It integrates intelligent security, audio/video intercom and broadcast functions. It supports wall-mounted installation, suitable for indoor and outdoor scenes, and can provide users with high-quality communication intercom services

### Functions:

- 2 SIP lines, one for backup.
- Auto answer.
- Built-in 1 short-circuit input.
- Built-in 1 short-circuit output, short-circuit output controlled mode (four types): remote DTMF, remote server command, short-circuit input linkage, call status.
- Intercom function.
- Support external power supply. Custom DSS button.

### Features

#### Audio:

- Broadband ADC/DAC 16KHz sampling
- Narrowband encoding: G.711a/u, G.729AB,, iLBC Wideband coding: G.722, Opus
- Duplex intercom with echo cancellation algorithm (AEC)
- Voice Activity Detection (VAD) / Comfortable Background
- Noise Generation (CNG) / Background Noise Detection (BNE)
- Packet Loss Concealment
- Dynamic adaptive jitter buffer up to 300ms
- DTMF: In-band audio, out-of-band-DTMF forwarding
- (RFC2833) / SIP INFO

#### Video

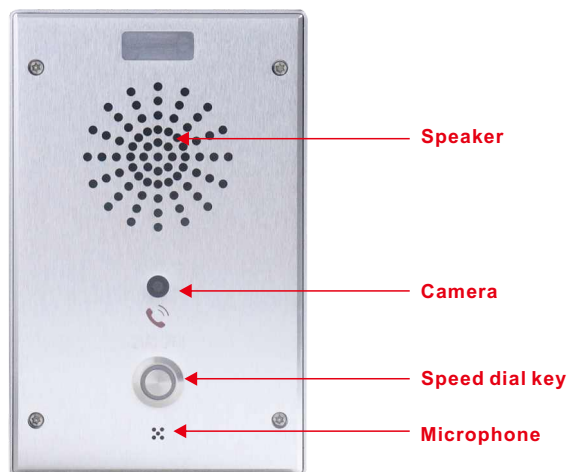
- Sensor: 1/4" color CMOS Pixels: 1 million
- Video encoding: H.264
- Resolution: 720P@30fps
- Minimum illumination: 0.1Lux
- Viewing angle: Diagonal: 84.1° , Level: 71.7° , Vertical: 56.7°

#### Network

- 10/100Mbps Ethernet
- IP mode: IPv4/IPv6/IPv4&IPv6
- IP acquisition method: static IP setting / DHCP / PPPoE
- Support 802.1x network access authority authentication
- Virtual Private Network (VPN): L2TP / OpenVPN Virtual
- Local Area Network (VLAN)
- Link Layer Discovery Protocol (LLDP) Quality of Service (QoS)

### Configuration & Management

- Auto-Provisioning via FTP/TFTP/HTTP/HTTPS/DHCP OPT66/SIP PnP/TR-069
- Web management interface Web-based
- Packet-dump
- Configuration export/import Software upgrade
- System log (Syslog)



**Camera:** Video Capture & Transmission  
**Push Button:** Can perform multicast, intercom and check IP functions

Model	SIP-TLO1 V
Related Protocols	SIP 2.0 over UDP/TCP/TLS, RTP/RTCP/SRTP, STUN, DHCP, IPv6, LLDP, PPPoE, 802.1x, L2TP, OpenVPN, SNMP, FTP/TFTP, HTTP/HTTPS, TR-069
Speed Dial Key	1 DSS key with red indicator light
Speaker	3W/4 Ω
Power Supply	DC12V/1A or PoE
Body Material	Aluminum
Installation Method	Indoor/outdoor, wall-mounted installation
Working Temperature	-40~50° C
Storage Temperature	-40~50° C
Relative Humidity	10%-90%
Equipment Weight	0.7kg
Equipment Size	150 x 190 x 36mm

**SIP Explosion-Proof Phone**
**Description:**

The SIP-EP66 series adopts a corrosion-resistant, vandal-proof die-cast aluminum waterproof casing, equipped with a magnetic door cover, which completely prevents dust and moisture from entering. This extends the product's life cycle and enhances its reliability and stability. This phone is suitable for high-speed rail, subways, tunnels, ports, docks, airports, underground pipeline systems, large industrial and mining dispatch centers, power plants, large chemical plants, cement plants, steel mills, ship decks, parks, national nature reserves, and more.

**Features:**

- ▶ Compliant with SIP standard for seamless communication.
- ▶ Equipped with a 42cm vandal-resistant armored handset cord for enhanced durability.
- ▶ Powered by 12V DC or PoE for versatile power options.
- ▶ Built with a rugged die-cast aluminum alloy casing for maximum durability in harsh environments.
- ▶ Full-function keypad for easy and fast use, with an optional waterproof dialing keypad.
- ▶ IP66-rated for excellent protection against water and dust ingress.
- ▶ Designed for wall-mounted installation to save space and enhance security.
- ▶ Features bottom cable entry for a clean and secure wiring setup.
- ▶ Anti-tamper screws to prevent unauthorized disassembly or tampering.

**Explosion-proof Protection**

- ▶ Ex eb ib fib Gb] mb IIc T6/T5 Gb
- ▶ Ex ib fib Db] tb IIIC T80° C/T95° C Db
- ▶ Applicable zones: Zones 1, 2, and 22


**Model**
**SIP-EP66**

Protocol	SIP 2.0
Codec	G.711A/u, G.7231 high/low, G.729, G.722
Operating Power	1.5W
Power Supply	100-240VAC, 50-60Hz / DC12V / POE
Network Port	WAN Port: 10/100Base-T RJ-45 for LAN, Auto MDIX LAN Port: 10/100Base-T RJ-45 for PC, Auto MDIX
Speaker Rated Power	1W@8ohm
Operating Temperature	-40° C to +70° C
Storage Temperature	-40° C to +75° C
Protection Level	IP66
Ringer Volume	≥ 90 dB at 1 meter
Hook	Magnetic hook without fork spring
Mean Time Between Failures (MTBF)	More than 50,000 hours
Product Dimensions	339x204x126mm
Net Weight	5.77kg

**SIP Ceiling Speaker (15W Rated)**
**Features:**

- ▶ Support MP3, WMA, WAV and more decoding
- ▶ With a standard RJ45 network interface and supports online firmware upgrade from long distance

**Model with suffix "POE" means power supply from POE;**

- ▶ This network ceiling loudspeaker integrated with network audio decoding, digital amplifier
- ▶ Empowered by high-speed dual-core (ARM + DSP) chip of industrial grade, startup in less than 1s
- ▶ Metal inclosure with fire dome



Support either POE or 12V DC  
(With optional adapter to purchase)



PoE supply  
connector

12V DC

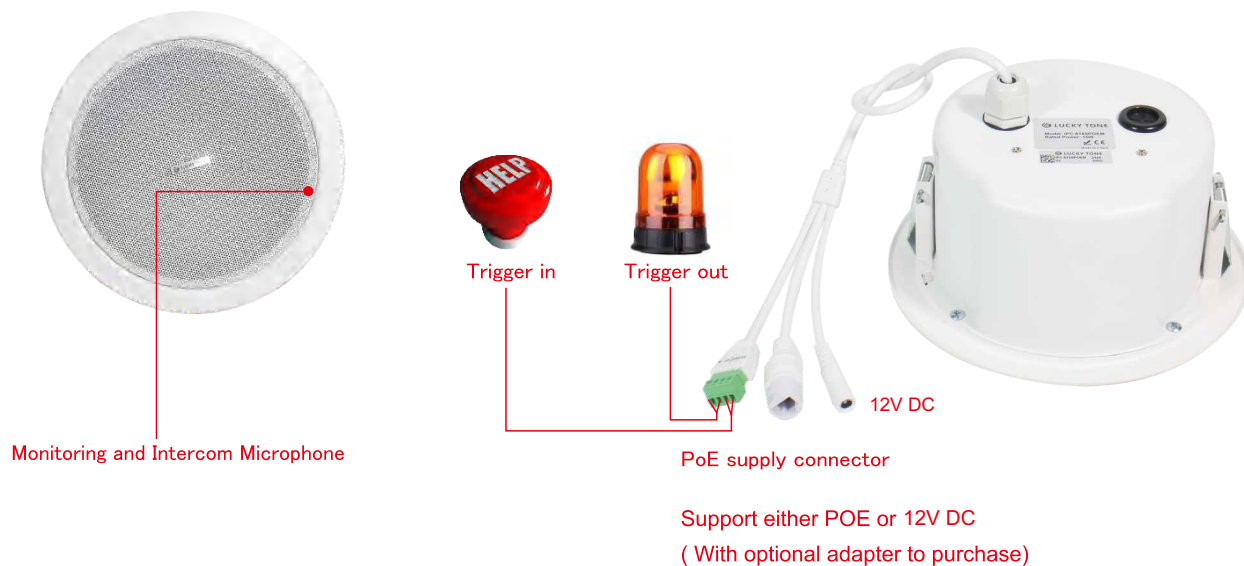
Model	IPC-615S / IPC-615SPOE
Communication Protocol	SIP
Network Interface	10/100Base-TX, RJ45
Speaker SPL (MAX)	96dB
Decoding	MP3/WMA/WAV
Frequency Range	100Hz~18KHz
Installation	In ceiling
Enclosure material	Metal
Power Supply	DC 12V/DC 12V or POE
Dimension	Dia 200 x 90 mm



**SIP Ceiling Speaker with Microphone (15W Rated)**
**Features:**

- ▶ Support MP3, WMA, WAV and more decoding
- ▶ With a standard RJ45 network interface and supports online firmware upgrade from long distance
- ▶ With built-in microphone
- ▶ This network ceiling loudspeaker integrated with network audio decoding, digital amplifier
- ▶ Empowered by high-speed dual-core (ARM + DSP) chip of industrial grade, startup in less than 1s
- ▶ Metal inclosure with fire dome

**Model with suffix "POE" means power supply from POE**



Model	IPC-615SM/IPC-615SPOEM
Communication Protocol	SIP
Network Interface	10/100Base-TX, RJ45
Speaker SPL (MAX)	96dB
Decoding	MP3/WMA/WAV
Frequency Range	100Hz~18KHz
Installation	In ceiling
Enclosure material	Metal
Power Supply	DC 12V/DC 12V or POE
Sensitivity	-52 dB
Dry Contact	Output and input
Dimension	Dia 200 x 90 mm

## High SPL 8-Inch Ceiling Speaker

### Features:

- ▶ Double magnet ultra-high sensitivity 8-inch coaxial ceiling speaker
- ▶ Support MP3, WMA, WAV and more decoding
- ▶ With a standard RJ45 network interface and supports online firmware upgrade from long distance
- ▶ This network ceiling loudspeaker integrated with network audio decoding, digital amplifier
- ▶ Empowered by high-speed dual-core (ARM + DSP) chip of industrial grade, startup in less than 1s
- ▶ Metal enclosure with fire dome



Model	IPC-830SPOE
Rated Power	30W
Power Supply	24V DC or PoE
Network Protocol	SIP
Audio Decoding	MP3, WMA, WAV
Network Interface	10/100Base-TX, RJ45
Speaker Sensitivity	96dB
Max Sound Pressure Level	110dB
Frequency Response	63Hz-20KHz
Material	Metal
Speakers	1" x1 (TREBLE) 8" x1 (BASS)
Cutout Size	Dia 230mm
Product Size	Dia265x130mm(H)
Package Size	605x605x230mm, 8pcs per carton
Net Weight	1.9kg
Gross Weight	2.1kg

**SIP Indoor/Outdoor Wall Speaker**
**Features:**

- ▶ The network wall loudspeaker integrated with network audio decoding, digital amplifier
- ▶ Empowered by high-speed dual-core (ARM + DSP) chip of industrial grade, startup in less than 1s
- ▶ Ip55 water-proof, good for both in and outdoor application
- ▶ Support MP3, WMA, WAV and more decoding
- ▶ With a standard RJ45 network interface and supports online firmware upgrade from long distance

**Model with suffix "POE" means power supply from POE;**



Model	IPW-430S/ IPW-430SPOE / IPW-415SPOE
Communication Protocol	SIP
Network Interface	10/100Base-TX, RJ45
Speaker SPL (MAX)	105dB/105dB/101dB
Decoding	MP3/WMA/WAV
Frequency Range	80Hz~20KHz
Installation	Wall mounted
Enclosure material	ABS
Power Supply	DC 12V/DC 12V or POE
Dimension	295 x 195 x 155 mm

**SIP Network Horn Speaker**
**Features:**

- ▶ The network horn loudspeaker integrated with network audio decoding, digital amplifier
- ▶ Empowered by high-speed dual-core (ARM + DSP) chip of industrial grade, startup in less than 1s
- ▶ IP67 water-proof horn speaker available at 15W and 30W
- ▶ Support MP3, WMA, WAV and more decoding
- ▶ With a standard RJ45 network interface and supports online firmware upgrade from long distance

**Model with suffix "POE" means power supply from POE;**

**IPO Series Oval Horn**


Support either POE or 12V DC  
(With optional adapter to purchase)

12V DC



PoE supply connector

**IPH Series round Horn**


Rear

12V DC supply connector

Model	IPH-15S / IPH-15SPOE IPO-15S / IPO-15SPOE	IPH-30S / IPH-30SPOE IPO-30S / IPO-30SPOE
Rated Power	15W	30W
Power Supply	DC12V / PoE	DC12V / PoE
Network Communication Protocol	SIP	SIP
Audio Encoding	MP3/WMA/WAV	MP3/WMA/WAV
Network Interface	10/100Base-TX, RJ45 Port	10/100Base-TX, RJ45 Port
Speaker SPL (1W/1M)	101dB	105dB
Enclosure Material	ABS	ABS
Dimension	Ø200 x 230 mm; 225 x 165x 240 mm	Ø240 x 290 mm; 285 x 205x 290 mm



**VOIP Series ONVIF Network Speakers**

**VOIP-15HR  
Horn Speaker**

**VOIP-30HR  
Horn Speaker**

**VOIP-60HR  
Horn Speaker**

**VOIP-15C  
Ceiling Speaker**

**VOIP-60WM  
Wall Speaker**

**VOIP-20PJ  
Projection Speaker**

**VOIP-30WM  
Wall Speaker**

**VOIP-30HG  
Pendant Speaker**
**Description:**

The VOIP Series ONVIF Network Speakers include horn, ceiling, wall-mounted, and pendant models for indoor and outdoor use. Built for durability and exceptional audio quality, they are ideal for public address, emergency alerts, and broadcasting in schools, hospitals, malls, and transportation hubs. SIP-enabled with PoE and DC power, they integrate seamlessly with IP systems.


**SIP Protocol**

**ONVIF**

**HD Voice**

**PoE**

**Built-in Amplifier**

**Auto Provisioning**

Model	VOIP-15HR	VOIP-30HR	VOIP-60HR	VOIP-15C	VOIP-60WM	VOIP-20PJ	VOIP-30WM	VOIP-30HG
Product Type	Horn Speaker	Horn Speaker	Horn Speaker	Ceiling Speaker	Wall Speaker	Projection Speaker	Wall Speaker	Pendant Speaker
Rated Power	15W	30W	60W	15W	60W	20W	30W	30W
Network Protocol	SIP, ONVIF							
Audio Decoding	MP3, WMA, WAV							
Network Interface	10/100Base-TX, RJ45							
SPL(1M/1W)	101dB	105dB	110dB	91dB	94dB	93dB	84dB	84dB
Max. SPL	113dB	120dB	128dB	103dB	112dB	106dB	99dB	99dB
Frequency Response	300Hz~8kHz	350Hz~8kHz	150Hz~8kHz	100Hz~20kHz	65~20kHz	130Hz~17kHz	98Hz~20kHz	98Hz~20kHz
IP Rating	IP66	IP66	IP66	/	IP66	IP66	IP66	IP66
Power Supply	POE/DC12V	POE/DC12V	POE/DC24V	POE/DC12V	POE/DC24V	POE/DC12V	POE/DC12V	POE/DC12V
Installation	Bracket Mount	Bracket Mount	Bracket Mount	In-ceiling Mount	Wall Mount	Wall Mount	Wall Mount	Hanging
Speaker	/	/	/	6" Woofer + 25mm Voice Coil	6.5" Weatherproof Woofer and 1" Silk Tweeter	5" *1 Full Range	5" (125mm) Graphite Cone 1"(25mm) Silk Soft Dome, Rubber Surround	5" (125mm) Graphite Cone 1"(25mm) Silk Soft Dome, Rubber Surround
Material	ABS	ABS	Aluminum	Metal	ABS	Aluminum	PP	PP
Product Dimension	Dia200x230mm	Dia240x290mm	Dia 20inch	Dia 193x102mm	315x195x185mm	Dia138*205mm	Dia 190 x 250mm	Dia 190 x 250mm
Net Weight	1.8kg	2.3kg	4.1kg	1.5kg	3.5kg	2.4kg	2.5kg	2.6kg

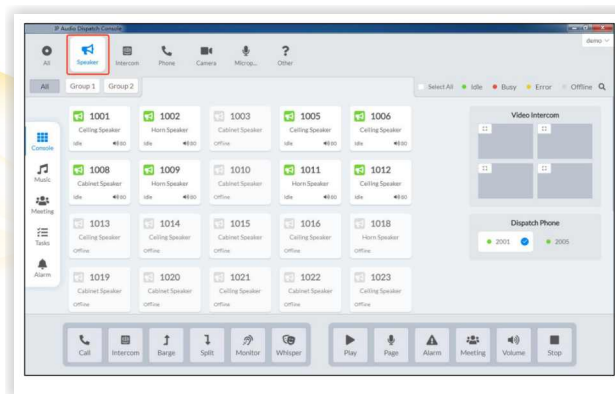
**OVIP Series IP-PBX IP Phone System**

**VOIP-100S**

**VOIP-100**
**Description:**

VOIP-100/VOIP-100S is a unified communication system for SMBs. Not only come with traditional PBX features like Caller ID, Auto Answer but also have some advanced features of IP PBX like Remote Extension, IVR, Call Recording, Conference Calls etc. OVIP Series IP-PBX IP Phone System provides flexible options for different trunks you may subscribe from any Telco, PSTN CO lines, GSM trunks, SIP trunks (VoIP).

Model	VOIP-100S	VOIP-100
2-CH FXO/FXS Interface	No	Yes
Extensions	100	
Maximum Concurrent Calls	50	
Maximum Conference Participants	50	
Recordings and Voicemail	400 hours	
Conference Rooms	Unlimited	
RAM	1GB DDR3	
Storage	8GB Industrial SD Card, USB Expansion (Up to 1TB)	
Protocol	SIP (FFC3261), IAX2, DTMF (RFC4733, SIPINFO, IN-BAND), UDP, TCP, TLS, RTP, SRTP, IPv4, IPv6	
Network Interfaces	2 x 10/100M Standard Ethernet Ports, 1 x Console Debug Interface (115200 baud rate)	
Power Supply	DC 12V-1A	
Voice Codecs Supported	Opus, G.722, G.711, G.729, GSM, Speex, AMR, VP8, H.264, H.263+, H.263, H.261	
Function	Video Calling, Third-party Calling, Auto Attendant, Multi-device Support for One Number, Mobile Extensions, Paging and Intercom, DISA, Callback, Time-based Rules, Operator Console, Call Billing, Emergency Integration, Intelligent Direct Lines, Call Queuing, Call Recording, Conference Control.	

**IP Audio Dispatch Console**

**VOIP-MEGA**
**Description:**

The VOIP-MEGA IP Audio Dispatch Console is a cross-platform application compatible with Windows, MacOS, and Linux, designed for users of IP Audio Solutions. It supports up to 4,000 user connections and comes with a 30 user licenses.

The system supports multiple dispatch users logging in simultaneously, allowing them to operate independently without affecting each other's paging zones. This functionality enables the deployment of distributed, multi-site IP audio systems.

Model	VOIP-MEGA	VOIP-APP AND
Type	IP Audio Dispatch Console	IP Audio Dispatch App
Endpoints Status Monitoring	✓	✓
Paging	✓	✓
Alarm	✓	✓
Alarm List	✓	✓
Text-to-Speech (TTS) Paging	✓	✓
Prerecorded Message Paging	✓	✓
Volume Control	✓	✓
Tasks	✓	✓
Music Player	✓	✓
Log	✓	✓
Intercom	✓	×
Meeting	✓	×
Video Intercom Window	✓	×

**Ordering Code:**

**VOIP-MINI:** IP audio dispatch console, same as VOIP-MEGA, and just support up to 50 licenses

**VOIP-APP AND:** IP audio dispatch App, Android

**VOIP-LIC:** user license

**Network Dispatch Microphone Console**

**Description:**

VOIP-M100 is a versatile, high-performance SIP-enabled microphone designed for seamless communication. It comes with 30 programmable fast keys, enabling users to perform functions such as paging, intercom, music playback, outbound calls, and emergency alarm activation.

Leveraging multicast and peer-to-peer technology, it operates as a standalone, serverless console for both individual and group paging, internal calls, and more. Additionally, it features local storage via a TF card, allowing users to save music and prerecorded messages for reliable, efficient communication.



Server-less Paging  
up to 30 Zones



External Music  
Collection



Music and  
Pre-recorded  
Message



Standard SIP  
Integration



Versatile  
Functionality



Easy Installation  
with PoE

Model	VOIP-M100
Protocol	SIP, ONVIF
TF Card	32GB
Power Supply	DC12V 1Aor PoE IEEE 802.3af/at
Speed Dial Key	10 physical buttons(Use with the screen,support 10*3 rows of programmable buttons)
RS485	Half duplex
Speaker Max Sound Pressure Level	100dB
Speaker Sensitivity	95±3dB/1W/1m
Gooseneck Microphone Max Sound Pressure Level	110dB
Gooseneck Microphone Sensitivity	36±2dB
LCD Display Size	4.3 inches
LCD Display Resolution	480p*272p
Dimension	210*190*46 mm
Weight	1.2KG



**Network Safety Intercom**

**VOIP-IV1**

**VOIP-IA1**

**VOIP-ID2**
**Description:**

The VOIP Series Safety Intercom is designed to meet the communication and access control needs of various environments, offering full-duplex communication and secure integration with your VoIP system. Perfect for use in commercial buildings, schools, medical facilities, warehouses, and retail spaces.


**Gesture  
Activation**

**Dual  
Destinations**

**Video  
Intercom**

**Access  
Control**

**ONVIF**

**Audio Out**

**PoE**

Model	VOIP-IV1	VOIP-IA1	VOIP-ID2
Type	ONVIF Intercom with 1 Button and Camera	ONVIF Intercom with 1 Button	ONVIF Intercom with 2 Buttons
Protocol	SIP, ONVIF		
Power Supply	PoE IEEE802.3at/af/DC12V-1A		
Sensitivity	96±3dB/1M/1W		
Distortion	<1%		
Amplifier	Single Channel Class-D		
Rated Power	5W@8ohm		
Frequency Range	100Hz-20KHz		
Microphone	-36±2dB		
Music Streaming	MP3 sampling rate 8-48KHz, Bit rate 64-320kbps, mono or stereo		
Storage	128MB RAM, 256MB Flash Memory		
IP Rating	IP66		
IK Rating	IK10		
Material	Aluminum		
Product Dimension	162x100x44mm		
Camera	1280*720@20fps, 640*360@20fps	N/A	N/A

**Network Paging Gateway**

**Description:**

The VOIP-GW1 is a SIP-enabled, multifunctional intelligent IP voice communication terminal. It converts IP voice signals into analog audio, which can be played through an external speaker for broadcasting or two-way intercom functionality. Supporting integration with sensors, sound and light alarms, door magnets, and other peripherals, the VOIP-GW1 enables automatic control, security, and more. It is ideal for smart city and public safety applications, enhancing communication efficiency, information sharing, and overall citizen welfare.


**PoE**

**ONVIF**

**Built-in  
Amplifier**

**Two-way Voice**

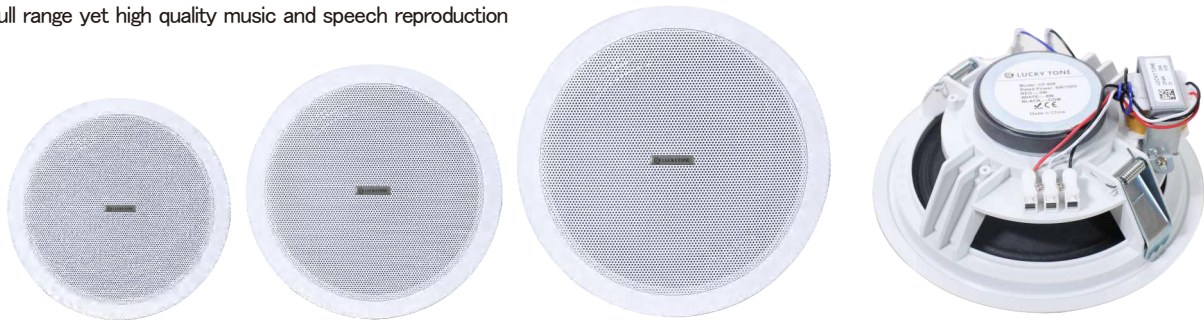
**Peripheral  
Integration**

**Stereo Audio**

Model	VOIP-GW1
Protocol	SIP, ONVIF
Output Power	2x10W
Headset Output	3.5mm Jack
Microphone	3.5mmJack
Volume Control	VOL+ and VOL-,press both to announce IP address
Power Supply	PoE or DC 12V-3A (No power adapter provided)
Ethernet	ETH0+ETH1, 10/100Mbps, ETH0 with PoE IEEE802.3at enabled
Dry Contact	NO/NC contacts,max AC 125V-1A,DC 60V-1A
Audio Codecs	G.722, G.711 A-law, G.711 U-Haw, Opus
Music Streaming	MP3 sampling rate 8-48KHz,bit rate64-320kbps,mono or stereo
Net Weight	300g

**Ceiling speaker**

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

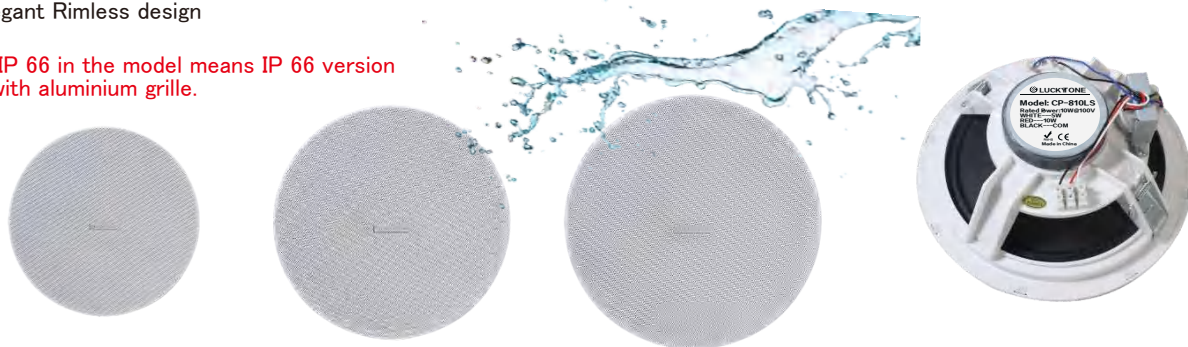


Model	CP-506	CP-606	CP-810
Power at 100V	3/6W	3/6W	5/10W
Power at 70V	1.5/3W	1.5/3W	2.5/5W
SPL( 1W/1M)	92dB	92dB	92dB
Max SPL@ 1M	99dB	99dB	101 dB
Freq. Response	100Hz-16KHz	100Hz-18KHz	100Hz-18KHz
Cutout Size	Dia 150mm	Dia 170mm	Dia 210mm
Product Size	Dia175x60mm(H)	Dia 185x75mm(H)	Dia 230x90mm(H)
Installation	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

**Rimless Ceiling speaker**

- ▶ Fast installation range of speaker
- ▶ Full range yet high quality music and speech reproduction
- ▶ Elegant Rimless design

With IP 66 in the model means IP 66 version and with aluminium grille.



Model	CP-506LMT/CP-506LMT IP66	CP-606LMT/CP-606LMT IP66	CP-810LMT
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	101dB
Freq. Response	100Hz-16KHz	100Hz-18KHz	100Hz-18KHz
Cutout Size	Dia 140mm	Dia 170mm	Dia 210mm
Product Size	Dia160x55mm(H)	Dia185x75mm(H)	Dia230x90mm(H)
Installation	Inceiling	Inceiling	Inceiling
Enclosure Material	ABS	ABS	ABS
Weight	0.5Kg	0.7Kg	1Kg
Finish	White	White	White
Speakers	5"x1 full range	6"x1 full range	8"x1 full range

### 2.5-Inch Ceiling Speaker

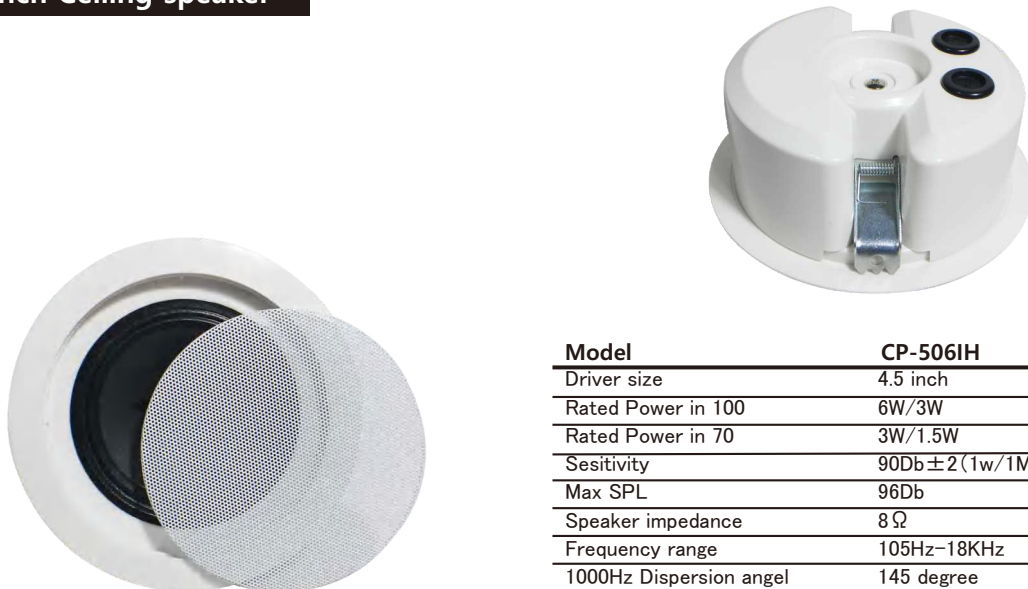
- ▶ ABS Ceiling speaker
- ▶ Mini size yet powerful sound
- ▶ With 8W transformer
- ▶ Good for PA and BGM

T means with transformer



Model	CP-208LD	CP-208LDT
Power at 100V	8W@8ohm	8W
Power at 70V	/	4W
SPL( 1W/1M)	91dB	91dB
Max SPL@ 1M	98dB	98dB
Freq. Response	130Hz-16KHz	130Hz-16KHz
Cutout Size	Dia 90mm	Dia 90mm
Product Size	Dia 100mm	Dia 100mm
Installation	In ceiling	In ceiling
Enclosure Material	ABS	ABS
Weight	0.4Kg	0.4Kg
Finish	White	White
Speakers	2.5 " x1 full range	2.5 " x1 full range

### 4.5-Inch Ceiling speaker



Model	CP-506IH
Driver size	4.5 inch
Rated Power in 100	6W/3W
Rated Power in 70	3W/1.5W
Sensitivity	90Db±2(1w/1M)
Max SPL	96Db
Speaker impedance	8 Ω
Frequency range	105Hz-18KHz
1000Hz Dispersion angel	145 degree
Size	Φ 174X87MM
Hole cut size	Φ 148MM
Material	ABS
Color	White
Installation	In ceiling



**Ultra Thin Ceiling Speaker with Dual Tweeter & Passive Radiator**
**Features:**

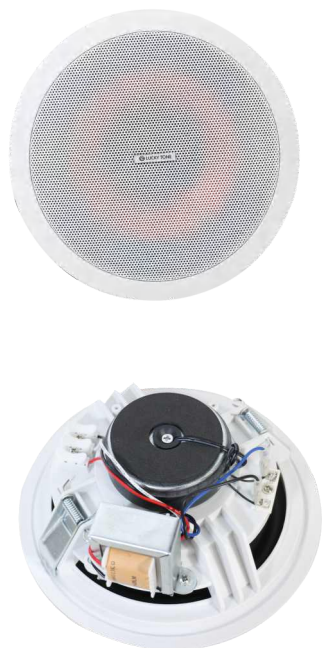
- ▶ Unique Acoustic Design: Dual tweeter, one 3.5" woofer and one passive radiator
- ▶ Ultra-thin design with only 85mm depth, friendly for most installation
- ▶ With 20W transformer (CH-320H)



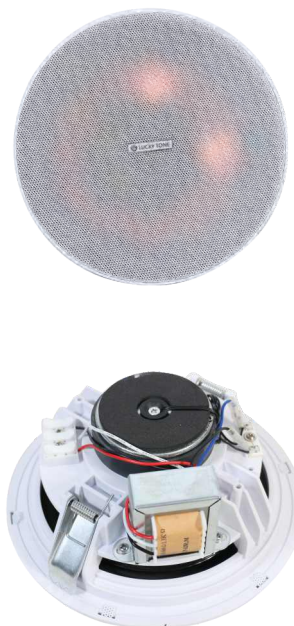
Model	CH-320Li	CH-320H
Power RMS	20W@4ohm	20W/10W/5W/100V; 20W@4ohm
Power Peak	40W	40W
SPL( 1W/1M)	88dB	88dB
Max SPL@ 1M	101dB	101dB
Freq. Response	100Hz-20KHz	100Hz-20KHz
Installation	Inceiling	Inceiling
Enclosure Material	ABS	ABS
Weight	1.1KG	1.4KG
Finish	White	White
Cutout Size	Dia 190mm	Dia 190mm
Product Size	Dia223x85mm(H)	Dia223x85mm(H)
Speakers	1"x2 (TREBLE) 3.5"*1(BASS) Passive Radiator*1	1"x2 (TREBLE) 3.5"*1(BASS) Passive Radiator*1

**High Performance 2-Way Ceiling Speaker**
**CR-620LT / CR-620L**

- ▶ Easy and fast installation
- ▶ Colorful Poly woofer produces smooth and natural HiFi sound
- ▶ Designed for optimal performance in a wide variety of commercial applications


**CR-620LMT / CR-620LM / CR-830LMT / CR-830LM**

- ▶ Elegant Rimless design
- ▶ Easy and fast installation
- ▶ Colorful Poly woofer produces smooth and natural HiFi sound
- ▶ Designed for optimal performance in a wide variety of commercial applications

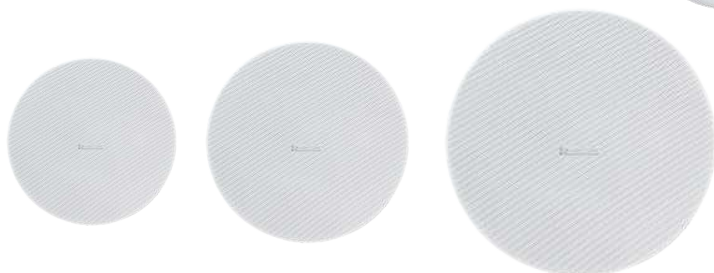


**Model Number with "M" means Rimless version; with "T" means 100V line transformer version**

Model	CR-620LT	CR-620L	CR-620LMT	CR-620LM	CR-830LMT	CR-830LM
Power at 100V	15W /7.5W	/	15W /7.5W	/	30W /15W /7.5W	/
Recommended Amplifier Power	/	15W to 125W	/	15W to 125W	/	20W to 125W
Power Peak	60W at 8 ohm	60W at 8 ohm	60W at 8 ohm	60W at 8 ohm	120W at 8 ohm	120W at 8 ohm
SPL( 1W/1M)	89dB	89dB	89dB	89dB	89dB	89dB
Max SPL@ 1M	101dB	101dB	101dB	101dB	104dB	104dB
Freq. Response	65Hz-20KHz	65Hz-20KHz	65Hz-20KHz	65Hz-20KHz	50Hz-20KHz	50Hz-20KHz
Cutout Size	Dia 170	Dia 170	Dia 170	Dia 170	Dia 210mm	Dia 210mm
Installation	Inceiling	Inceiling	Inceiling	Inceiling	Inceiling	Inceiling
Enclosure Material	ABS	ABS	ABS	ABS	ABS	ABS
Weight	1.0KG	0.8KG	1.0KG	0.8KG	1.25KG	0.9KG
Finish	White	White	White	White	White	White
Product Size	Dia186.5x95mm(H)	Dia186.5x85mm(H)	Dia 187x87mm(H)	Dia 187x80mm(H)	Dia 235x104mm(H)	Dia 235x93mm(H)
Speakers	1" x1 (TREBLE) 6"x1(BASS)	1" x1 (TREBLE) 6"x1(BASS)	1" x1 (TREBLE) 6"x1(BASS)	1" x1 (TREBLE) 6"x1(BASS)	1" x1 (TREBLE) 8"x1(BASS)	1" x1 (TREBLE) 8"x1(BASS)

**Rimless Ceiling Speaker with or without Dome**
**Features:**

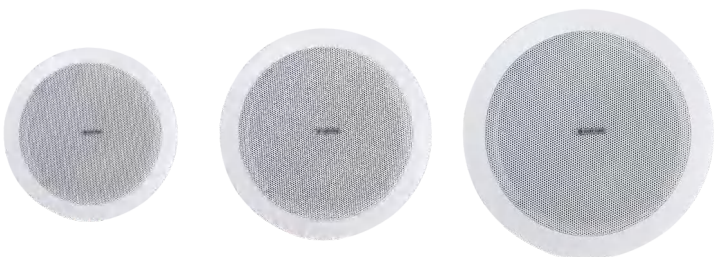
- ▶ ABS in ceiling speaker at high performance
- ▶ Available in 5, 6, and 8 inch
- ▶ With 100V line transformer
- ▶ Good for PA and BGM



Model	CP-520LT/CP-520LTH	CP-630LT/CP-630LTH	CP-840LT/CP-840LTH
Power at 100V	5/10/20W; 40W at 8ohm	7.5/15/30W; 60W at 8ohm	10/20/40W; 80W at 8ohm
Power at 70V	2.5/5/10W; 40W at 8ohm	3.8/7.5/15W; 60W at 8ohm	5/10/20W; 80W at 8ohm
SPL( 1W/1M)	89dB	90dB	90dB
Max SPL@ 1M	100dB	103dB	105dB
Freq. Response	80Hz-20KHz	50Hz-20KHz	50Hz-20KHz
Cutout Size	Dia 180mm	Dia 205mm	Dia 255mm
Installation	In ceiling mounted	In ceiling mounted	In ceiling mounted
Enclosure Material	ABS	ABS	ABS
Weight	1.3Kg	1.8Kg	2.6Kg
Finish	White	White	White
Speakers	5" coaxial	6" coaxial	8" coaxial

**H means with fire dome**

- ▶ High Performance 2 way speaker
- ▶ With heavy duty fire dome and power selection switch
- ▶ Good for high music demand applications.



Model	CP-521T;CP-521TH	CP-621T;CP-621TH	CP-821T;CP-821TH
Power at 100V	20W/20W/10W/5W/8 ohm	30W/30W/15W/7.5W/8 ohm	40W/40W/20W/10W/8 ohm
Power at 70V	10W; 10W/5W/2.5W/8 ohm	15W; 15W/7.5W/3.8W/8 ohm	20W; 20W/10W/5W/8 ohm
SPL( 1W/1M)	88dB	88dB	88dB
Max SPL@ 1M	101dB	102dB	103dB
Freq. Response	100Hz-20KHz	90Hz-20KHz	50Hz-20KHz
Cutout Size	Dia 170mm	Dia 200mm	Dia 240mm
Product Size	Dia203x80mm(H);x145mm(H)	Dia230x90mm(H);x150mm(H)	Dia270x105mm(H);x185mm(H)
Installation	Inceiling	Inceiling	Inceiling
Enclosure Material	ABS	ABS	ABS
Weight	1.25; 1.7Kg	1.6; 2.2Kg	2.1; 3.1Kg
Finish	White	White	White
Speakers	1" x1 (TREBLE) 5.25"x1(BASS)	1" x1 (TREBLE) 6"x1(BASS)	1" x1 (TREBLE) 8"x1(BASS)



## PA Ceiling Speaker

### 3-Inch Ceiling Speaker

#### Features:

- ▶ With clear acoustic performance for music and voice
- ▶ Fast and easy installation feature



Model	CP-303FM
Driver size	3 inch
Rated Power	1.5/3W
Sensitivity	89dB±2(1W/1M)
Max SPL	93dB
Speaker impedance	8ohm
Frequency range	100Hz-16KHz
1000Hz Dispersion angel	130 degree
Size	Φ 120X80MM
Hole cut size	Φ 100MM
Material	ABS
Color	White

### 4-Inch Ceiling Speaker

#### Features:

- ▶ Elegant outlook.
- ▶ Easy to install and maintain.
- ▶ Made of durable material
- ▶ ABS enclosure
- ▶ IP64



Model with suffix "L" means Rimless

Model	CP-406WP/CP-406WPL
Rated Power	6W
Power Taps	3/6W
Line Voltage	100V
Sensitivity(1m,1W)	91±3dB
Frequency Response	150-18KHz
Dimension	Dia140x130mm
Hole for Mounting	Dia125mm
Material	ABS
Weight	0.86kg

### Office Sound Masking Speaker

The SM-506 office sound masking speaker contains a 5.25-inch diameter speaker mounted on axis. The compact enclosure includes a convoluted, flame retardant, acoustical insert to eliminate standing waves and metallic resonance. It provides uniform dispersion and is well suited for sound masking, paging, and music signals.



Model	SM-506
Power at 70V	6W/3W/1.5W/0.75W/0.38W
Frequency Response	100Hz-12KHz
Sensitivity	83±3dB
Nominal Impedance	100 V / Secondary Equals 8 Ohms
Nominal Dispersion	160° H x 165° V
Height	10.1cm
Weight	1.6kg
Speaker	5.25" full range paper cone driver
Color	White

### Ceiling Speaker

#### Features:

- ▶ Elegant outlook.
- ▶ Easy to install and maintain.
- ▶ Full range yet high quality music and speech reproduction
- ▶ ABS enclosure



Model with suffix "L" means Rimless

CSP-6T

CSP-6TL

Model	CSP-6T	CSP-6	CSP-6TL	CSP-6L
Power at 100V	3W/6W	/	3W/6W	/
Power at 70V	1.5W/3W	/	1.5W/3W	/
Power at 8 ohm	/	10W	/	10W
SPL( 1W/1M)	92dB	92dB	92dB	92dB
Max SPL@ 1M	99dB	101dB	99dB	101dB
Freq. Response	100Hz-18KHz	100Hz-18KHz	100Hz-18KHz	100Hz-18KHz
Cutout Size	Dia 165mm	Dia 165mm	Dia 165mm	Dia 165mm
Installation	Inceiling	Inceiling	Inceiling	Inceiling
Enclosure Material	ABS	ABS	ABS	ABS
Net Weight	590g	425g	615g	450g
Gross Weight	705g	540g	730g	570g
Finish	White	White	White	White
Product Size	Dia187x65mm(H)	Dia187x65mm(H)	Dia189x65mm(H)	Dia189x65mm(H)
Package Size	205x195x68mm	205x195x68mm	205x195x68mm	205x195x68mm
Speakers	6.5"x1 full range	6.5"x1 full range	6.5"x1 full range	6.5"x1 full range

**High SPL 8-Inch Ceiling Speaker**
**Features:**

- ▶ Double magnet ultra-high sensitivity 8-inch coaxial ceiling speaker
- ▶ Metal Ceiling speaker
- ▶ Versatile for various applications
- ▶ With 30W transformer

Model with suffix "H" means with fire dome



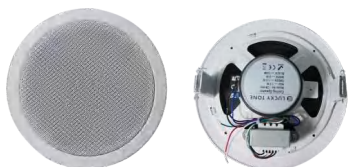
Model	CP-830T	CP-830TH
RMS Power at 100V	30W /15W/7.5W	30W /15W/7.5W
Power Peak	60W	60W
SPL( 1W/1M)	96dB	96dB
Max SPL@ 1M	110dB	110dB
Freq. Response	93Hz-20KHz	63Hz-20KHz
Installation	In ceiling	In ceiling
Enclosure Material	metal	metal
Net Weight	2.0KG	2.5KG
Finish	White	White
Cutout Size	Dia 230mm	Dia 230mm
Product Size	Dia265x93mm(H)	Dia265x100mm(H)
Speakers	1" x1 (TREBLE) 8" x1(BASS)	1" x1 (TREBLE) 8" x1(BASS)



## PA Ceiling Speaker

### CM-606

- ▶ Metal Ceiling speaker
- ▶ Versatile for various PA and BGM applications
- ▶ With 6W transformer



### CM-606H

- ▶ Metal Ceiling speaker
- ▶ Versatile for various PA and BGM applications
- ▶ With heavy duty fire dome



### CM-606HEN

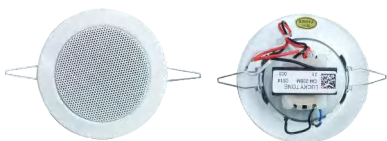
- ▶ Metal Ceiling speaker
- ▶ Versatile for various PA and BGM applications
- ▶ With heavy duty fire dome and 2 waterproof rubber gaskets
- ▶ EN 54 Part 24 compliance



Model	CM-606	CM-606H	CM-606HEN
Power at 100V	1.5/3/6W	1.5/3/6W	0.75/1.5/3/6W
Power at 70V	0.75/1.5/3W	0.75/1.5/3W	0.375/0.75/1.5/3W
SPL( 1W/1M)	91dB	91dB	91dB
Max SPL@ 1M	98dB	98dB	98dB
Freq. Response	100Hz-18KHz	100Hz-18KHz	100Hz-18KHz
Cutout Size	Dia 175mm	Dia 175mm	Dia 175mm
Product Size	Dia200	Dia 200x90mm(H)	Dia 200x90mm(H)
Installation	Inceiling	Inceiling	Inceiling
Enclosure Material	Metal	Metal	Metal
Weight	0.7Kg	0.95Kg	1.1Kg
Finish	White	White	White
Speakers	6"x1 full range	6"x1 full range	6"x1 full range

### CM-206M

- ▶ Mini size yet powerful sound
- ▶ With 6W transformer
- ▶ Good for PA and BGM
- ▶ Designed for fast installation and easy operation



### CP-206E

- ▶ ABS Ceiling speaker
- ▶ Mini size yet powerful sound
- ▶ With 3W transformer
- ▶ Good for PA and BGM



### CP-206LMT

- ▶ ABS Ceiling speaker
- ▶ Mini size yet powerful sound
- ▶ With 6W transformer
- ▶ Good for PA and BGM



Model	CM-206M	CP-206E	CP-206LMT
Power at 100V	3/6W	1.5/3W	3/6W
Power at 70V	1.5/3W	0.75/1.5W	1.5/3W
SPL( 1W/1M)	87dB	87dB	91dB
Max SPL@ 1M	91dB	91dB	98dB
Freq. Response	120-20kHz	130-16kHz	130-16kHz
Cutout Size	Dia 80mm	Dia 90mm	Dia 95mm
Product Size	Dia 100*70mm	Dia 100*70mm	Dia 103mm
Installation	In ceiling	In ceiling	In ceiling
Enclosure Material	Iron	ABS	ABS
Weight	0.35Kg	0.4Kg	0.4Kg
Finish	White	White	White
Speakers	2.5 " x1 full range	2.5 " x1 full range	2.5 " x1 full range

**IP44 Marine Ceiling Speaker**
**Features:**

- ▶ ABS Ceiling speaker
- ▶ Water and corrosion proof for outdoor and marine
- ▶ IP44 Rating



Model	CP-420	CP-525
Power at 100V	20W at 8ohm	25W at 8ohm
Power at 70V	NA	NA
SPL( 1W/1M)	88dB	90dB
Max SPL@ 1M	101dB	103dB
Freq. Response	155Hz-20KHz	100Hz-20KHz
Cutout Size	Dia 105mm	Dia 122mm
Product Size	Dia 141mm	Dia 165mm
Installation	Inceiling	Inceiling
Enclosure Material	ABS	ABS
Weight	0.5Kg	0.7Kg
Finish	White	White
Speakers	1" x1 (TREBLE) 4"x1(BASS)	1" x1 (TREBLE) 5"x1(BASS)

## 8-Inch Ceiling Subwoofer

### Description

Lucky-tone believes that the sound in a venue should be uncompromised, including the often overlooked secondary areas.

To this end we are proud to introduce our LT-8.1SUB2 subwoofer ceiling speaker to you.

The LT-8.1SUB2 equipped with a 3-Shift switch that you can choose 100V, off and 8ohm. It is a subwoofer with a deep but clean sound.

Also, it is a low frequency supplement. It can be used with any ceiling speaker and let the entire sound field to be filled with the energy of the bass.

So this 8 inch subwoofer ceiling speaker is a perfect choice for the place where additional low frequency response is required

### Features:

- ▶ Elegant outlook.
- ▶ Easy to install and maintain.
- ▶ Made of durable material
- ▶ ABS enclosure

Model	LT-8.1SUB2
Design	Subwoofer
Woofers	8 inch
Power Handling RMS	50W
Programme Watts	100W
SPL (1W/1M)	88dB
Max. SPL@1M	100dB
Frequency Response	65Hz-5KHz
Dispersion Angle	180°
Cutout Size	Dia 245mm
Product Size	Dia285x195mm
Installation	In ceiling
Tapping	100V/OFF/8Ω
Enclosure Material	ABS
Net Weight	3.4kg
Connector	Spring loaded terminal
Input Voltage	8Ω/100V 200Ω 50W
Speaker Cables	Minimum Diameter 2.5mm <sup>2</sup>



## 8-Inch Ceiling Subwoofer

### Description

Subwoofer 150W at 4 Ohm for smart home and hotels



Accessory: BOX 8.3

Additional Wooden Box for LT-8.3SUB to add more bass

Model	LT-8.3SUB
Power RMS	150W 4 ohm
Power PEAK	300W 4 ohm
SPL( 1W/1M)	89dB
Max SPL@ 1M	109dB
Freq. Response	35-300Hz
Cutout Size	Dia 273 mm
Product Size	Dia 273* 107mm
Installation	In ceiling
Enclosure Material	ABS
Weight	3.6 kg
Finish	White grille with back body
Speakers	8 inch

## 10-Inch Ceiling Subwoofer

### Features:

- ▶ High power excursion ceiling subwoofer at 240W with overload protection
- ▶ Built-in transformer for 100V line, 70V line or 4 ohm input with multi tapping selector in the front
- ▶ Heavy steel metal enclosure fire dome
- ▶ Designed for easy installation and maintenance
- ▶ Great supplement for sub bass for ceiling sound system and others.

### Description

This subwoofer ceiling speaker equipped with 100V line transformer and can handle up to 240W of RMS power as well as for low impedance at 4 ohm, and it handles low frequency at 35Hz, which is truly suitable for sub bass applications.



Model	LT-10.1
Power at 100V	240/120/60W, 240W@ 4 ohm
Power at 70V	120/60/30W, 240W@ 4 ohm
SPL( 1W/1M)	89dB
Max SPL@ 1M	112dB
Freq. Response	35-150Hz
Cutout Size	Dia 330 mm
Product Size	Dia 360* 330mm
Installation	In ceiling
Enclosure Material	ABS front and metal dome
Weight	9 kg
Finish	White front with black dome
Speakers	10 inch

**2-Way Ceiling Speaker**
**Features:**

- ▶ 2-way ABS in ceiling speaker at high performance
- ▶ With crossover to produce clear yet powerful sound
- ▶ Kevlar driver for exceptional sound reproduction(CP-880P)
- ▶ Easy for installation
- ▶ Good for high music demand applications



Model	CP-660P	CP-880P
Power at 100V	60/30/15W/OFF-8ohm	80/40/20W/OFF-8ohm
Power at 8ohm	60W	80W
Max. Power	120W	160W
SPL (1W/1M)	95dB	98dB
Max SPL@ 1M	116dB	120dB
Freq. Response	75-20KHz	105-20KHz
Dispersion Angle	180° (1000Hz)	180° (1000Hz)
Cutout Size	Dia 245mm	Dia 245mm
Product Size	φ 285x195mm	φ 285x195mm
Installation	In ceiling	In ceiling
Enclosure Material	ABS	ABS
Net Weight	3.6kg	4.5kg
Finish	Black	Black
Speakers	6.25" woofer x1, 1.5" tweeter x1	8" woofer x1, 0.5" tweeter x1

**5-Inch Surface Mount Ceiling Speaker**
**Features:**

- ▶ **High-Fidelity Sound:** Experience exceptional audio quality with clear, balanced sound reproduction, making it ideal for music playback and voice announcements.
- ▶ **Easy Installation:** Designed for hassle-free installation, this speaker can be securely mounted on the ceiling surface, saving you time and effort.
- ▶ **Wide Sound Coverage:** Enjoy broad sound dispersion, ensuring even coverage throughout the room.
- ▶ **Durable and Reliable:** Built to last, our surface mount ceiling speaker is constructed with robust materials, providing long-lasting performance and reliability.



Model	PC-506G
Power at 100V	6W/3W
Standard Input Voltage (100V)	3W, 3333 Ω /6W, 1667 Ω
Max. Power	10W
Frequency Response	100HZ±5 ~ 17K±1
Product Size	Ø 219*75mm
Sensitivity (1m)	91dB ±1dB
Dispersion Angle	120°
Cutout Size	No hole; Surface mounted
Speaker Size	5.25" full range speaker
Net Weight	855g
Color	Light Grey
Material	PP (anti-resonance special material)
Package	20pcs per carton



**5/6-Inch Wall Speaker**
**Features:**

- ▶ Ip66, all weather speaker for indoor and outdoor use
- ▶ Available in 5 inch, 6 inch
- ▶ Quick installation with water-proof brackets
- ▶ Fashionable appearance with high quality sound



Model	WSP-5T	WSP-5L	WSP-6T	WSP-6L
Power at 100V	15W	/	25W	/
Power at 70V	7.5W	/	12.5W	/
Power at 8ohm	/	20W	/	30W
Sensitivity	92dB ± 1dB	92dB ± 1dB	93dB ± 1dB	93dB ± 1dB
Frequency Response	70Hz-20kHz	70Hz-20kHz	65Hz-20KHz	65Hz-20KHz
Enclosure Material	ABS	ABS	ABS	ABS
Installation	Wall mount	Wall mount	Wall mount	Wall mount
Finish	Black	Black	Black	Black
Speakers	5"bass, 0.75" tweeter	5"bass, 0.75" tweeter	6"bass, 0.75" tweeter	6"bass, 0.75" tweeter
Package Size	162x162x243mm	162x162x243mm	185x180x280mm	185x180x280mm

**5-Inch Wall Speaker**
**Features:**

- ▶ 100V or 8ohm switchable
- ▶ Experience rich and crisp audio with our wall mount speaker featuring a dedicated tweeter.
- ▶ Mounting this speaker on your wall is a breeze, thanks to a user-friendly design.
- ▶ Wide frequency response for balanced sound
- ▶ 2-way design for enhanced audio clarity(WP-515T2)
- ▶ Suitable for both music and voice applications



Model	WP-515T	WP-515T2
Rated Power	15W@100V, 15W@8ohm	7.5/15W@100V, 15W@8ohm
Max. Power	20W	20W
Frequency Response	80HZ ± 5 ~ 19K ± 1	80Hz ~ 17KHz
Product Size	246x154x120mm	278x117x107mm
Speaker Size	5" woofer+1" tweeter	5.25" woofer+1" tweeter
Sensitivity(1m)	92 ± 1dB	92dB
Installation	Wall mounted	Wall mounted
Color	White	White
Material	ABS	ABS
Net Weight	1.2kg	1.5kg



## IP55 Waterproof Wall Speaker

### Features

- ▶ **80W High Power Output:** Delivers strong and clear audio performance.
- ▶ **IP55 Waterproof Rating:** Designed for outdoor environments, providing resistance to dust and water.
- ▶ **PA and BGM Compatibility:** Suitable for both Public Address systems and Background Music applications.
- ▶ **Durable Plastic Enclosure:** Made with high-quality plastic material for durability and longevity in all-weather conditions.
- ▶ **Wide Sound Coverage:** Designed to evenly distribute sound across large areas, perfect for both indoor and outdoor use.



Model	WP-680B/WP-680W	WP-680LB/WP-680LW
Power at 8Ω	80W	80W
Power at 100V	80W/40W/20W/10W	/
Power at 70V	40W/20W/10W/5W	/
Peak Power	200W	200W
Sensitivity	96±3dB	96±3dB
Frequency Response	80Hz-18KHZ	80Hz-18KHZ
Coverage Angle (1KHz/-6dB)	<110°	<110°
Dimensions (HxWxD) (mm)	200x220x212mm	200x220x212mm
Weight	4.7Kg	4.6Kg
Color	Black/White	Black/White
Speakers	6.5" Wooferx1, 1" Tweeter x1	6.5" Wooferx1, 1" Tweeter x1

## PA Wall Speaker

### 3-Inch Wall Speaker for Outdoor



IP66



#### Features:

- ▶ ABS mini wall speaker at high performance
- ▶ Fashionable outlook
- ▶ With 100V line transformer
- ▶ Good for PA and BGM
- ▶ Waterproof for outdoor use

Model	HW-310P	HW-310T ( With 100V line transformer )
Power	15W Program 8 ohms	1.25/ 2.5/5/10W
Max SPL@ 1M	100dB	100dB
Freq. Response	200Hz-20KHz	200Hz-20KHz
Installation	360 degree wall mount bracket	360 degree wall mount bracket
Enclosure Material	ABS	ABS
Product Size	91H*97W*107D mm	91H*97W*107D mm
Cutout Size	Dia 225mm	Dia 225mm
Finish	Black standard,white optional	Black standard,white optional
Speakers	3" paper cone, foam cotton surround	3" paper cone, foam cotton surround

### 3.5-Inch Wall Speaker

#### Features:

- ▶ 3.5-inch coaxial wall speaker
- ▶ ABS mini wall speaker at high performance
- ▶ Elegant outlook
- ▶ With 100V line transformer
- ▶ Good for PA and BGM

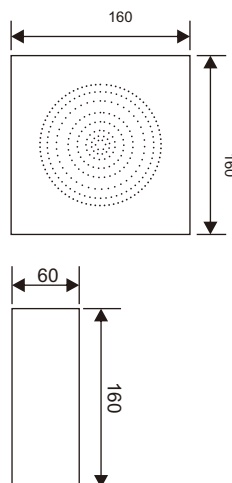


Model	HW-420B
Power at 100V	20W/10W, 20W@16ohm
Power at 70V	10W/5W, 20W@16ohm
Sensitivity	85±2dB
Max. SPL	99±2dB
Woofer	3.5" coaxial
Frequency Response	120Hz-20kHz
Housing Material	ABS
Color	Black
Product Dimensions	138x125x149mm, 138x125x187mm(with bracket)
Net Weight	1.23kg

### Vandal Proof Wall Speaker

#### Features:

- ▶ Conform to Fire protection Norm-BS 5839
- ▶ Corrosion-resistant powder coating
- ▶ Ceramic clamp + thermofuse
- ▶ Ball proof
- ▶ Vandal proof



Model	WM-506VP
Frequency response	120-10KHz
Sensitivity(1M/1W)	92dB
Power handling	6W
Power taps	0.75W/1.5W/3W/6W
Line Input	100V
Dimension	160*160*60mm
Material	Iron
Component	5"
Finished color	Grey
Character	Non-flammable
Unit weight	1.4kg
<b>Speaker</b>	
Voice coil size	PSV 14.28*0.1*2 player
DC impedance	7.3Ω
Former	Paper
Magnet	Ferrite(106g) Dia 55*24*10(Y30)
Basket	Iron
Cone material	Paper
Spider	Cloth
Dust cap	Paper
Net weight	220g

## ABS Wall Speaker

### Features:

- ▶ ABS wall mount speaker
- ▶ Elegant outlook
- ▶ With 20/30/40W transformer
- ▶ Black and white available
- ▶ Good for PA and BGM



Model	WP-640FW/B	WP-530FW/B	WP-420FW/B
Power at 100V	40W/20W/10W/OFF/8Ω	30W/15W/7.5W/OFF/8Ω	20W/10W/5W/OFF/8Ω
Power at 70V	20W/10W/5W/OFF/8Ω	15W/7.5W/3.75W/OFF/8Ω	10W/5W/2.5W/OFF/8Ω
SPL( 1W/1M)	88dB	88dB	88dB
Max. SPL@ 1M	104dB	103dB	101dB
Freq. Response	70Hz-20KHz	70Hz-20KHz	100Hz-20KHz
Product Size	216x195x300mm	185x167x250mm	160x145x220mm
Installation	Wall mounted	Wall mounted	Wall mounted
Enclosure Material	ABS	ABS	ABS
Weight	3.3Kg	2.5Kg	2Kg
Finish	White as standard, Black optional	White as standard, Black optional	White as standard, Black optional
Speakers	1.5" Treble x1, 6" Bass x1	1" Treble x1, 5" Bass x1	1" Treble x1, 4" Bass x1

## High-Fidelity Wall Speaker

### Features:

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



WP-420W



WP-540W



WP-660W



WP-880W



Side

Model	WP-420W/B	WP-540W/B	WP-660W/B	WP-880W/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)	88dB	88dB	89dB	89dB
Max SPL@ 1M	101dB	103dB	107dB	108dB
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)

**Ip66 Waterproof Wall Mount Speaker for Outdoor**
**Description**

It is a new design IP66 Waterproof outdoor Wall Mount Speaker, which is Beauty, Durability, Performance and User Friendliness. It delivers high quality audio as well as clean and clear announcements for public address systems. The Unique Rear Covers not only helped to cover the Euroblock Connector and Bypass Selector (PA Transformer) in the rear of the speaker, but also designed to merge seamlessly with the OBE Bass Radiator and the overall design of Speakers. Default white color, black color optional.

**Features**

- ▶ IP66, all weather wall mount speaker for indoor and outdoor use
- ▶ With power tap for 70V/100V and 8Ω
- ▶ Available in 3inch, 4inch, 5 inch, 6 inch and 8 inch
- ▶ Quick installation with waterproof brackets
- ▶ Fashionable appearance with high quality sound



Model	WIP-310W/WIP-310B	WIP-420W/WIP-420B	WIP-540R	WIP-660R	WIP-880R
Power at 100V	10W@8ohm/OFF/10/5/2.5/1.25W	20W@8ohm/OFF/20/10/5/2.5W	2.5W/5W/10W/20W, 40W@8ohm	5W/10W/20W/40W, 60W@8ohm	6.25W/12.5W/25W/50W, 80W@8ohm
Power at 70V	10W@8ohm/OFF/5/2.5/1.25/0.75W	20W@8ohm/OFF/10/5/2.5/1.25W	1.25W/2.5W/5W/10W, 40W@8ohm	2.5W/5W/10W/20W, 60W@8ohm	3.125W/6.25W/12.5W/25W, 80W@8ohm
Max SPL@ 1M	92dB	96dB	98dB	102dB	105dB
Freq. Response	200Hz~20kHz(+/-3dB)	100Hz~20kHz	100Hz~20KHz	90Hz~20KHz	70Hz~20KHz
Dispersion Angel	/	/	90x80 degree	90x80 degree	90x80 degree
Product Size	121x101x107mm	217x142x140mm	285x170x161mm	285x200x195mm	382x262x240mm
Installation	Wall mount	Wall mount	Wall mount	Wall mount	Wall mount
Enclosure Material	ABS	ABS	ABS	ABS	ABS
Net Weight	0.7kg	2.1kg	3kg	3.5kg	4.5kg
Color	White/Black	White/Black	White/Black	White/Black	White/Black
Speakers	3" Paper Dual Cone, Rubber Surround	0.75" Silk soft dome, 4" Rubber Surround	5" woofer, 1" tweeter	6.5" woofer, 1" tweeter	8" woofer, 1" tweeter



## Ip66 Waterproof Wall Mount Speaker for Outdoor

### Features:

- ▶ **All-weather durability:** IP66 rating ensures reliable performance in both indoor and outdoor environments, protecting against dust, water, and extreme weather conditions.
- ▶ **Flexible power options:** Equipped with a power tap for 70V/100V and 8Ω, providing versatility in installation and compatibility with various sound systems.
- ▶ **Size options:** Available in 5, 6 and 8-inch variants, allowing for customization based on the space and desired audio coverage.
- ▶ **Easy installation:** Quick installation facilitated by waterproof brackets.
- ▶ **Stylish design, superior sound:** Combines a fashionable appearance with high-quality sound reproduction, enhancing the ambiance of any indoor or outdoor setting while delivering clear and immersive audio experiences.



**WSP-540W**



**WSP-660W**



**WSP-880W**



Model	WSP-540W/WSP-540B	WSP-660W/WSP-660B	WSP-880W/WSP-880B
Power at 100V	2.5W/5W/10W/20W, 40W@8ohm	5W/10W/20W/40W, 60W@8ohm	6.25W/12.5W/25W/50W, 80W@8ohm
Power at 70V	1.25W/2.5W/5W/10W, 40W@8ohm	2.5W/5W/10W/20W, 60W@8ohm	3.125W/6.25W/12.5W/25W, 80W@8ohm
Max. SPL@1m	98dB	102dB	105dB
Freq. Response	95Hz~20kHz ±3	95Hz~20kHz ±3	45Hz~20kHz ±3
Product Size	275x170x168mm	285x200x195mm	380x249x280mm
Installation	Wall Mount	Wall Mount	Wall Mount
Enclosure Material	PP	PP	PP
Termination	Standard Pressed connector	Standard Pressed connector	Standard Pressed connector
Woofers	5" (125mm) Paper+wool Cone, Rubber Surround	6.5" (165mm) Paper+wool Cone, Rubber Surround	8" (203mm) Paper+wool Cone, Rubber Surround
Tweeter	0.75" (20 mm) Aluminum dome	0.75" (20 mm) Aluminum dome	1" (25 mm) Aluminum dome
Net Weight	6.75kg	9.2kg	13.5kg
Color	White/Black	White/Black	White/Black



**Indoor/Outdoor Wall Mount Speaker**
**Features:**

- ▶ All weather loudspeakers for music and speech.
- ▶ Stylish design with great sound
- ▶ IP66 waterproof finish for all extreme weather applications
- ▶ 4.25"/6"/8" weatherproof woofer and 1" silk tweeter
- ▶ 2-way speaker system
- ▶ PP Enclosure, and 180 degree aluminum mounting bracket
- ▶ 70V/100V speaker with power tapping or as a low impedance 8 Ohm speaker
- ▶ Supplied with 180° rotatable bracket for horizontal and vertical installation angle adjustment
- ▶ Black and white color optional



Model	WTP-880W/WTP-880B	WTP-660W/WTP-660B	WTP-430W/WTP-430B
Power Taps	20W/40W/80W/OFF-8ohm	10W/20W/40W/OFF-8ohm	5W/10W/20W/OFF-8ohm
Power at 8ohm	100W	60W	30W
Peak Power	160W	80W	60W
SPL@ 1M	98±3dB	94±3dB	89±2dB
Max SPL@ 1M	120dB	112dB	104dB
Freq. Response	50-20KHz	65-20KHz	100-20KHz
Dispersion Angel	Vertical: 80° and Horizontal: 100° (1KHz)		
Product Size	395x260x230mm	315x195x185mm	240x150x140mm
Installation	Wall mount		
Enclosure Material	PP Enclosure and 180-degree metal mounting bracket		
Net Weight	4.9kg	3.5kg	1.6kg
Color	White/black		
Speaker	8" weatherproof woofer and 1.5" silk tweeter	6.5" weatherproof woofer and 1" silk tweeter	4.25" weatherproof woofer and 1" silk tweeter

## 2-Way Surface Mount Speaker

With high power handling, high sensitivity and realistic sound reproduction, DS Series surface mount speaker is a full-range, compact, two-way system, ideal for installations where space is a premium.

### Features:

- ▶ Elegant and modern in architectural design
- ▶ High efficiency and output yet low distortion
- ▶ Paintable ABS enclosure
- ▶ Weather-resistant construction for outdoor application
- ▶ Available in black or white color
- ▶ Simple and flexible installation



### Applications:

- ▶ Swimming pools
- ▶ Sports stadia, sports facilities
- ▶ Health and fitness clubs
- ▶ Houses of worship
- ▶ Retail environments
- ▶ Cruise ships
- ▶ Corporate training rooms
- ▶ Bars and restaurants



**W: White Color, B: Black Color**

Model	DS-5100/B DS-5100/W	DS-5100/VB DS-5100/VW	DS-8150/B DS-8150/W	DS-8150/VB DS-8150/VW
Input	8 ohm	8ohm/100V/70V	8 ohm	8ohm/100V/70V
Operating Range	65 Hz – 22 kHz			
Frequency Response	80 Hz – 20 kHz (±5.2 dB)			
Max Input Ratings (8 ohm)	100W continuous, 250W program 28 volts RMS, 63 volts momentary peak		150W continuous, 375W program 35 volts RMS, 77 volts momentary peak	
Power at 100V	/	60W	/	120W
Power at 70V	/	60W	/	120W
Sensitivity (1W/1m)	93 dB SPL (125 Hz to 12.5 kHz 1/3 octave bands) 91 dB SPL (250 Hz to 4 kHz speech range)		95 dB SPL (125 Hz to 12.5 kHz 1/3 octave bands) 96 dB SPL (250 Hz to 4 kHz speech range)	
Maximum Output	120 dB SPL	113 dB SPL / 120 dB SPL (peak 8 ohm)	124 dB SPL	117 dB SPL / 124 dB SPL (peak 8 ohm)
Crossover	1.6 kHz		1.3 kHz	
Frequency	80Hz–20kHz(±5.2dB)			
Speaker Drivers	5" woofer x1, 1" tweeter x1		8" woofer x1, 1.25" tweeter x1	
Enclosure	ABS plastic, matte finish, paintable			
Finish	Black or white			
Dimension(H*W*D)	328*160*191mm		470*230*257mm	
Net weight with bracket	4.9kg		8.3kg	

## PA Wall Speaker

### WP-430S

- ▶ Weather proof wall speaker
- ▶ Mini size yet powerful sound
- ▶ With 30W transformer

IP 44 for water resistant application



### WP-610

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



### WP-610C

- ▶ ABS speaker
- ▶ Mini size yet powerful sound
- ▶ With 10W transformer
- ▶ Good for PA and BGM



### WP-610T

- ▶ ABS speaker
- ▶ Mini size yet powerful sound
- ▶ With 10W transformer
- ▶ Good for PA and BGM



Model	WP-430S	WP-610	WP-610C	WP-610T
Power at 100V	7.5/15/30W; 30W@ 8ohm	10W	5/10W	6/10W
Power at 70V	3.75/7.5/15W; 30W@ 8ohm	5W	2.5/5W	3/5W
SPL( 1W/1M)	90dB	91dB	92dB	92dB
Max SPL@ 1M	105dB	100dB	102dB	102dB
Freq. Response	130Hz~18KHz	150Hz~15KHz	150Hz~15KHz	150Hz~15KHz
Dispersion Angel	90x80 degree	NA	100x100 degree	90x80 degree
Product Size	290x295x150mm	350x240x100mm	260x185x120mm	275x182x120mm
Installation	Wall mounted	Wall mounted	Wall mounted	Wall mounted
Enclosure Material	ABS	ABS	ABS	ABS
Weight	3.0Kg	1.4Kg	1.3Kg	1.38Kg
Finish	White/Black	White	White	White
Speakers	1" x1 (TREBLE) 4"x1(BASS)	6.5" x1 full range	6.5" x1 full range	1" x1 (TREBLE) 6.5"x1(BASS)

### WP-506S

- ▶ Moisture proof wall speaker
- ▶ Compact and light weight
- ▶ With 6W transformer

Moisture proof for damp application



### WP-420C

- ▶ ABS Cabinet speaker
- ▶ Mini size yet powerful sound
- ▶ With 20W transformer
- ▶ Good for Mosque



### WP-106T

- ▶ Multiple wiring terminals to adapt to different occasions
- ▶ Easy installation
- ▶ Durable, no deformation, no fading
- ▶ High sensitivity, clear and bright sound



### WP-606WEN

- ▶ Indoor wooden wall speaker
- ▶ Elegant outlook
- ▶ Good for PA and BGM
- ▶ With 6W transformer
- ▶ EN 54 Part 24 compliance



Model	WP-506S	WP-420C	WP-106T	WP-606WEN
Power at 100V	3/6W	20W	3/6/10W	0.75W/1.5W/3W/6W
Power at 70V	1.5/3W	10W	1.5/3/6W	0.37/0.75W/1.5W/3W
SPL( 1W/1M)	91dB	91dB	92dB	91dB
Max SPL@ 1M	98dB	104dB	99dB	101dB
Freq. Response	150Hz~15KHz	55Hz~18KHz	160~18KHz	133Hz~18KHz
Dispersion Angel	180x180 degree	NA	NA	180*180degree
Product Size	175x220x100mm	215x155x129mm	280 x 380 x 110mm	dia255*196*84
Installation	Wall mounted	Wall mounted	Wall mount	wall
Enclosure Material	ABS	ABS	ABS	wood
Weight	0.8Kg	1.5Kg	1.75kg	1.7KG
Finish	White	White/Black	White shell and grey mesh	White
Speakers	5" x1 full range	1.5 " x1 (TREBLE) 4"x1(BASS)	6.5 " x1 woofer , 2 " x1 tweeter	6"*1 full range



### Ultra-thin Wall Mount Speaker

**Features:**

- ▶ 100V and 4ohm switchable
- ▶ Ultra-thin design with only 38mm thickness, optimizing space usage.
- ▶ Stylish panel made of high-strength HIPS material, seamlessly fitting into various indoor settings.
- ▶ Compliant with CE standards for safety.
- ▶ Good for PA and BGM



Model	WP-510
Rated Power	10W@100V, 20W@4ohm
Frequency Response	120Hz-20KHz
Sensitivity	90dB
Panel Material	HIPS
Speakers Size	5" Woofer + 2" Tweeter
Voice Coil	0.17*2 Layer
Impedance	3.2Ω
Voice Coil Bobbin	Paper
Magnet	Φ 24*10, N35
Frame	Iron
Cone Material	ASV
Spider	Cloth
Color	White
Product Size	270*183*38mm
Net Weight	980g

### Waterproof Wall Mount Speaker

**Features:**

- ▶ ABS wall mount speaker
- ▶ Elegant outlook
- ▶ With 6W transformer
- ▶ Good for PA and BGM
- ▶ Waterproof for outdoor application

Model	LT-116
Power at 100V	3W/6W
Power at 70V	1.5W/3W
Sensitivity(1M/1W)	91dB
Max SPL@ 1M	96dB
Freq. Response	140Hz-14KHz
Installation	Wall mounted
Enclosure Material	ABS
Weight	3kg
Finish	White
Speaker driver	4.5" woofer × 1



IP65



IP54

**Features:**

- ▶ ABS wall mount speaker
- ▶ Elegant outlook
- ▶ With 6W transformer
- ▶ Good for PA and BGM
- ▶ IP54 for wet and humid half outdoor application.

Model	WP-306W
Power at 100V	3W/6W
Power at 70V	1.5W/3W
Sensitivity(1M/1W)	82dB ± 2dB
Max SPL@ 1M	87dB ± 2dB
Freq. Response	200Hz-12KHz
Installation	Wall mounted
Enclosure Material	ABS
Size	126 × 154 × 69mm
Net Weight	0.43kg
Color	White
Speaker	3" × 1



## 5-Inch Pendant speaker

### Description:

The LT-430 is a pendant speaker designed for ceiling suspension installations. Considered in architectural design, it can blend in with lighting equipment. A directly-attached 5 m cable allows the speaker to be suspended from the high ceiling. LT-430 is driven on both high-impedance (100 V and 70 V) and low-impedance (8 Ohm) lines. The input power (impedance) can be easily changed at the upper side of the speaker. The speaker is easy to repaint so as to meet a wide range of design needs.

### Features:

- ▶ Ideally suited for BGM and announcements
- ▶ Stylish and outstanding design inspired by the finest lighting fixtures
- ▶ Excellent sound quality
- ▶ Sturdy cable extendable up to 5 meters
- ▶ Input impedance easily changeable
- ▶ Bass-reflex type
- ▶ Black Color optional



### Model

### LT-430

Rated Power	30W (100V, 70V line, 8 Ω)
Power Tapping	5W/10W/15W/20W/30W@100V/70V, 30W@8 Ω
Rated impedance	8 Ω
Frequency response	70 Hz – 20 kHz
Sensitivity (1 W, 1 m)	91 dB (500 Hz – 5 kHz, pink noise)
Speaker component	5" bass + balanced-dome tweeter
Finish	HIPS resin, off-white (RAL 9010 or equivalent)
Dimensions	185 x 250 mm (Ø x H)
Weight	2.1 kg

**Pendant speaker**
**Features:**

- ▶ Innovative & unique design
- ▶ Wide opening angle
- ▶ Ceiling suspension or wall mount optional
- ▶ With high-quality polypropylene enclosure
- ▶ Adopt acoustic engineering craftsmanship
- ▶ Provide premium performance for demanding applications
- ▶ Suitable for bars, restaurants, retail, education, public facilities, corporate spaces, sport facilities

W: White Color, B: Black Color



**HWS BRC**



**HWS GRC**

Wall mount and ground mount bracket for HWS series 4 inch, 5 inch, and 6 inch; 8 inch not applicable.

Model	HWS-440W/B	HWS-550W/B	HWS-660W/B	HWS-880W/B
Tweeter	0.75"(20 mm) Silk soft dome	1"(25mm) Silk soft dome	1"(25mm) Silk soft dome	1.1"(28 mm) Silk soft dome
Woofer	4"(100 mm) Graphite Cone , Rubber Surround	5" (125mm) Graphite Cone , Rubber Surround	6.5" (165 mm) Graphite Cone , Rubber Surround	8"(203 mm) Graphite Cone , Rubber Surround
Frequency Range+/-3	80 Hz-20k Hz	98 Hz-20k Hz	51 Hz-20k Hz	44 Hz-20k Hz
Power Handling RMS	40W 8 ohms	50W, 8 ohms	60W, 8 ohms	80W, 8 ohms
Sensitivity	83 dB	84 dB	85 dB	86 dB
Dispersion Angle	110°	/	95°	80°
Taps	8 Ω ,0,20W,10W,5W,2.5W	8 Ω ,0,30W,15W,7.5W,3.75W	8 Ω ,0,40W,20W,10W,5W	8 Ω ,0,50W,25W,12.5W,6.25W
Impedance	8 ohms	8 ohms	8 ohms	8 ohms
Termination	Pluggable Terminal Blocks	Pluggable Terminal Blocks	Pluggable Terminal Blocks	Pluggable Terminal Blocks
Attachment	Brackets/Safety rope	Brackets/Safety rope	Brackets/Safety rope	Safety rope
Dimensions W*H	Dia 155 x 215mm	Dia 190 x 250mm	Dia 230 x 300mm	Dia 270 x 343mm
IP Rating	IP66	IP66	IP66	IP66
Material	PP	PP	PP	PP

**Pendant Speaker with OBE Technology**
**Features:**

- ▶ Innovative & unique design
- ▶ Wide opening angle
- ▶ Ceiling suspension or wall mount optional
- ▶ With high-quality polypropylene enclosure
- ▶ Adopt acoustic engineering craftsmanship
- ▶ Provide premium performance for demanding applications
- ▶ Suitable for bars, restaurants, retail, education, public facilities, corporate spaces, sport facilities

W: white color, B: black color



OBE Technology adds more bass



**HWS BRC**



**HGS BRC**

Wall mount and ground mount bracket for HWB series 4 inch, 5 inch, and 6 inch; 8 inch not applicable.

Model	HWB-440W/B	HWB-550W/B	HWB-660W/B	HWB-880W/B
Tweeter	0.75"(20 mm) Silk soft dome	1"(25mm) Silk soft dome	1" (25mm) Silk soft dome	1.1"(28 mm) Silk soft dome
Woofer	4" (100 mm) Graphite Cone, Rubber Surround	5" (125mm) Graphite Cone, Rubber Surround	6.5" (165 mm) Graphite Cone, Rubber Surround	8" (203 mm) Graphite Cone, Rubber Surround
Frequency Range+/-3	80 Hz~20k Hz	50 Hz~20k Hz	47 Hz~20k Hz	37 Hz~20k Hz
Power Handling RMS	40W program	60W program	60W program	80W program
Sensitivity	83 dB	84 dB	85 dB	86 dB
Taps	8 Ω ,0.20W,10W,5W,2.5W	8 Ω ,0.30W,15W,7.5W,3.75W	8 Ω ,0.40W,20W,10W,5W	8 Ω ,0.50W,25W,12.5W,6.25W
Impedance	8 ohm	8 ohm	8 ohm	8 ohm
Termination	Pluggable Terminal Blocks	Standard pressed connector	Pluggable Terminal Blocks	Pluggable Terminal Blocks
Attachment	Brackets grille	Brackets grille	Safety rope	Safety rope
Dimensions H*W	235mm x 147.8mm	268mm x 183.5mm	282mm x 214mm	375mm x 253.4mm

**Ip67 Waterproof Horn Speaker**

- ▶ Heavy duty aluminum Wide range Horn
- ▶ Water proof for any hot, rainy or hazard outdoor applications
- ▶ Good for Mosque and other long distance voice transmission

**IP 67**

**HN-15T**

**HN-30T**

**HN-50T**

Model	HN-15T	HN-30T	HN-50T
Power at 100V	3/5/10/15W; 15W@ 8 ohm	3/5/10/15/30W; 30W@ 8 ohm	7.5/15/30/50W; 50W@ 16 ohm
Power at 70V	1.5/2.5/5/7.5W; 15W@ 8 ohm	1.5/2.5/5/7.5/15W; 30W@ 8 ohm	3.8/7.5/12.5/25W; 50W@ 16 ohm
SPL( 1W/1M)	108dB	108dB	110dB
Max SPL@ 1M	120dB	126dB	130dB
Freq. Response	400Hz-6KHz	400Hz-7KHz	160Hz-8KHz
Product Size	Dia 217x238 mm	Dia 305x350 mm	Dia 500x470 mm
Installation	Bracket	Bracket	Bracket
Enclosure Material	Aluminum	Aluminum	Aluminum
Weight	1.3Kg	1.8Kg	3.65Kg
Finish	Light Grey	Light Grey	Light Grey



## Horn Speaker

### HS-66Q

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



### HS-67Q

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



### HS-68Q

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



### HS-69Q

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



Model	HS-66Q	HS-67Q	HS-68Q	HS-69Q
Power at 100V	5/10W	7.5/15W	15/30W	15/30W
Power at 70V	2.5/5W	3.75/7.5W	7.5/15W	7.5/15W
SPL( 1W/1M)	94dB	95dB	96dB	97db
Max SPL@ 1M	106dB	107dB	108dB	110db
Freq. Response	400Hz-8KHz	400Hz-5KHz	400Hz-7.5KHz	120Hz-15KHz
Dispersion Angel	230 degree	230 degree	230 degree	70 x 90 degree
Product Size	180x130x190mm	222x162x232mm	285x205x290mm	280 x 360x 170mm
Installation	Bracket mount	Bracket mount	Bracket mount	Bracket mount
Enclosure Material	ABS	ABS	ABS	ABS
Weight	1.15Kg	1.36Kg	2.2Kg	3kg
Finish	White	White	White	White

### HN-10P

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

IP 67



### HN-15P

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

IP 67



### HN-30P

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

IP 67



### HN-50P

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

IP 67



Model	HN-10P	HN-15P	HN-30P	HN-50P
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

## Directional Speaker

### PJ-510PEN

- ▶ Elegant outlook
- ▶ Weather proof projector
- ▶ With 2 cable entries
- ▶ With 10W transformer
- ▶ EN 54 Part 24 compliance

IP 55



### PJ-520PEN

- ▶ Elegant outlook
- ▶ Weather proof projector
- ▶ With 2 cable entries
- ▶ With 20W transformer
- ▶ EN 54 Part 24 compliance

IP 55



### PJ-520MEN

- ▶ Elegant outlook
- ▶ Weather proof projector
- ▶ Steady aluminum enclosure
- ▶ With 2 cable entries
- ▶ With 20W transformer
- ▶ EN 54 Part 24 compliance

IP 55



### PJ-510B

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

IP 55



Model	PJ-510PEN	PJ-520PEN	PJ-520MEN	PJ-510B
Power at 100V	1.25W/2.5W/5W/10W	1.25W/2.5W/5W/10W/20W	2.5W/5W/10W/20W	2.5/5/10W
Power at 70V	0.63W/1.25W/2.5W/5W	0.63W/1.25W/2.5W/5W/10W	1.25W/2.5W/5W/10W	1.25/2.5/5W
SPL( 1W/1M)	92dB	92dB	93dB	91dB
Max SPL@ 1M	102dB	105dB	106dB	100dB
Freq. Response	130Hz~17KHz	130Hz~17KHz	130Hz~17KHz	130Hz~15KHz
Dispersion Angel	100degree	100degree	100degree	100 degree
Product Size	dia135*205mm	dia135*205mm	dia138*205mm	Dia138x205mm
Installation	wall	wall	wall	Wall or ceiling
Enclosure Material	ABS	ABS	Aluminum	Aluminum
Weight	1.7KG	1.8KG	2.4KG	2.9Kg
Finish	White	White	White	White
Speakers	5" *1 full range	5" *1 full range	5" *1 full range	5" x2 full range

### PJ-510M

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

IP 55



### PJ-620M

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

IP 55



### PJ-620B

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

IP 55 and bi directional



### PJ-510P

- ▶ ABS projector
- ▶ Mini size yet powerful sound
- ▶ With 10W transformer
- ▶ Good for PA and BGM

IP 55



Model	PJ-510M	PJ-620M	PJ-620B	PJ-510P
Power at 100V	10W/20W	10/20W	10/20W	5/10W
Power at 70V	2.5/5W	5/10W	5/10W	2.5/5W
SPL( 1W/1M)	91dB	92dB	92dB	91dB
Max SPL@ 1M	100dB	103dB	103dB	100dB
Freq. Response	130Hz~15KHz	110Hz~15KHz	110Hz~15KHz	130Hz~15KHz
Dispersion Angel	100 degree	120 degree	320 degree	100 degree
Product Size	Dia138x205mm	Dia 170x252mm	Dia 170x252mm	Dia 135x 205mm
Installation	Wall or ceiling	Wall or ceiling	Wall or corridor	Wall or ceiling
Enclosure Material	Aluminum	Aluminum	Aluminum	ABS
Weight	2.2Kg	2.8Kg	3.4Kg	1.5Kg
Finish	White	White	White	White
Speakers	5" x1 full range	6.5" x1 full range	6.5" x2 full range	5" x 1 full range

### 10W ABS Hang Speaker

- ▶ Elegant outlook
- ▶ Weather proof projector
- ▶ With 10W transformer
- ▶ EN 54 Part 24 compliance
- ▶ Steel wire inside the cable ensures safe hanging

IP 55



### 20W Aluminum Hang Speaker

- ▶ Elegant outlook
- ▶ Weather proof projector
- ▶ Steady aluminum enclosure
- ▶ With 20W transformer
- ▶ EN 54 Part 24 compliance
- ▶ Steel wire inside the cable ensures safe hanging

IP 55



Model	PJ-510PH EN	PJ-520MH EN
Power at 100V	1.25W/2.5W/5W/10W	2.5W/5W/10W/20W
Power at 70V	0.63W/1.25W/2.5W/5W	1.25W/2.5W/5W/10W
SPL( 1W/1M)	92dB	93dB
Max SPL@ 1M	102dB	106dB
Freq. Response	130Hz-17KHz	130Hz-17KHz
Dispersion Angel	100degree	100degree
Product Size	dia135*205mm	dia138*205mm
Installation	Hang	Hang
Enclosure Material	ABS	Aluminum
Weight	2KG	2.7KG
Finish	White	White
Speakers	5"*1 full range	5"*1 full range

### Tunnel Horn Speaker

#### Features:

- ▶ Designed to be used in place with restricted ceiling heights and where far throws are requested
- ▶ Perfect for traffic tunnels and industrial purpose
- ▶ High SPL
- ▶ High directivity
- ▶ High intelligibility



The TLH-70T has been specially developed for use in tunnel applications. The TLH-70T is a typical exponential horn suitable for use at low ceiling heights or in projects where a large range of speakers is important.

The TLH-70T is made from a reinforced fiberglass-epoxy composite and features a powerful compression driver that can deliver up to 129 dB, and its shape and structure allow it to be used in demanding applications such as motorway tunnels or parking garages. Voice evacuation is a good location for the TLH-70T.

The TLH-70T has an extended bandwidth of up to 8 kHz and can thus reproduce speech in situations where the acoustic conditions are unfavorable and the demands on the system are correspondingly high in terms of high quality and fidelity. Speakers with high directivity require less amplifiers and signal processing, thus reducing the cost of the project.

The TLH-70T is a typical symmetrical exponential horn (the length of the horn is in exponential connection to the surface) which uses the mounting surface as a guide for the sound waves. This allows a "half cell" design to be used that reduces the required mounting height, which benefits projects with very low ceilings.

In the right frequency band for a certain size, the horn provides the driver with a relatively consistent acoustic load. This helps both the output level, the uniformity of the playback of different frequencies and is the property that makes this type of horns so effective.

The TLH-70T should be mounted against a large and flat surface used as a guide for the sound waves. The small horizontal opening angle of only 30 degrees guarantees that the Audio signals are not affected by lateral disturbances, thus increasing the maximum possible distance between two horns.

Model	TLH-70T
RMS power	70W
Max. SPL	129 dBA @ 70 W
Frequency Response	300 Hz - 8 kHz
Horizontal opening angle @ 1 kHz	30 degrees
Vertical opening angle @ 1 kHz	15 degrees
Sensitivity (1W/1M)	110 dB @ 1 kHz
Material	Aluminum
IP Rating	IP66
Color	Gray
Dimensions (L x W x H)	560 x 360 x 183 mm

## Horn Speaker

### H-150D

- ▶ Low impedance Horn Driver
- ▶ Water proof with stainless steel screw for outdoor use
- ▶ Good for Mosque

IP 67



### H-100D

- ▶ Low impedance Horn Driver
- ▶ Water proof with stainless steel screw for outdoor use
- ▶ Good for Mosque

IP 67



### H-100DT

- ▶ Intelligent Horn Driver
- ▶ Water proof with stainless steel screw for outdoor use
- ▶ With 100W transformer

IP 67



### H-60DT

- ▶ High efficient Neodymium magnet
- ▶ Water proof with stainless steel screw for outdoor use
- ▶ With 60W transformer

IP 67



### H-30DT

- ▶ Low impedance Horn Driver
- ▶ Water proof with stainless steel screw for outdoor use
- ▶ Good for Mosque

IP 67



Model	H-150D	H-100D	H-100DT	H-60DT	H-30DT; H-50DT
Power at 100V	150W@ 16 ohm	100W@ 16 ohm	60/80/100W; 100W@ 16 ohm	20/40/60W; 60W@ 16 ohm	5/10/15/30W; 15/30/50W
Power at 70V	NA	NA	30/40/50W; 100W@ 16 ohm	10/20/30W; 60W@ 16 ohm	2.5/5/7.5/15/30W; 8/15/25/50W
SPL( 1W/1M)	115dB	115dB	113dB	115dB	110dB
Max SPL@ 1M	134dB	132dB	132dB	132dB	124dB;130dB
Freq. Response	160Hz-8KHz	160Hz-8KHz	160Hz-7KHz	150Hz-7KHz	300Hz-5KHz
Product Size	Dia 124x110 mm	Dia 124x110 mm	Dia 163x174 mm	Dia 110x154 mm	Dia 108x132 mm
Installation	Fix to Horn	Fix to Horn	Fix to Horn	Fix to Horn	Fix to Horn
Enclosure Material	Aluminum	Aluminum	Aluminum	Aluminum	Plastic
Weight	2.2Kg	2.2Kg	2.6Kg	2.2Kg	2.1Kg; 2.2Kg
Finish	Grey	Grey	Grey	Grey	Grey

### HN-50T

- ▶ Wide range Horn
- ▶ Water proof for any outdoor applications
- ▶ Good for Mosque

IP 67



### HI Series

- ▶ Horn Housing
- ▶ Work with 13/8-18 TPI thread driver for various applications
- ▶ Available in 20 inch, 22 inch and 24 inch

IP 67



### H-400

- ▶ High power 4 drivers speaker
- ▶ Normally use for high demand requirement, like army, ship
- ▶ High sensitivity

IP 67



### HE-30T

- ▶ Explosive proof horn
- ▶ Design for hazard environment, like mining, nuclear plant etc.

IP 67

Explosive Proof



Model	HN-50T	HI-20, 22, 24	H-400	HE-30T
Power at 100V	7.5/15/30/50W; 50W@ 16 ohm	NA	400W@ 16 ohm	10/15/25W
Power at 70V	3.8/7.5/12.5/25W; 50W@ 16 ohm	NA	NA	5/7.5/15W
SPL( 1W/1M)	110dB	NA	117dB	115±3dB
Max SPL@ 1M	130dB	NA	142dB	NA
Freq. Response	160Hz-8KHz	NA	150Hz-7KHz	350Hz-10KHz
Product Size	Dia 500x470 mm	Dia 20, 22 and 24 inch	Dia 494x522 mm	Dia 250x351 mm
Installation	Bracket	Bracket	Bracket	Bracket
Enclosure Material	Aluminum	Aluminum	Aluminum	ABS
Weight	3.65Kg	NA	8Kg	3.5kg
Finish	Grey	Light Grey	Grey	Black



## Waterproof 10" In-Ground Subwoofer

### Product Description

The 10" Ultra-Long Throw in Ground Subwoofer 250W with IP66 Protection is engineered to deliver powerful, deep bass for your outdoor audio setup. With its 250W RMS power handling, this subwoofer ensures a thrilling low-frequency experience. It features an IP66 rating, making it resistant to dust and water, allowing for reliable performance in various weather conditions.

The subwoofer's ultra-long throw design guarantees exceptional bass response, providing a truly immersive audio experience. Its robust construction ensures durability, while the weather-resistant finish protects it from outdoor elements. With a frequency response of 25Hz to 200Hz and a sensitivity of 90dB, this subwoofer delivers outstanding sound quality.

Installation is a breeze with its easy in-ground setup. Upgrade your outdoor sound system with the 10" Ultra-Long Throw in Ground Subwoofer 250W, and enjoy superior bass performance and long-lasting reliability.



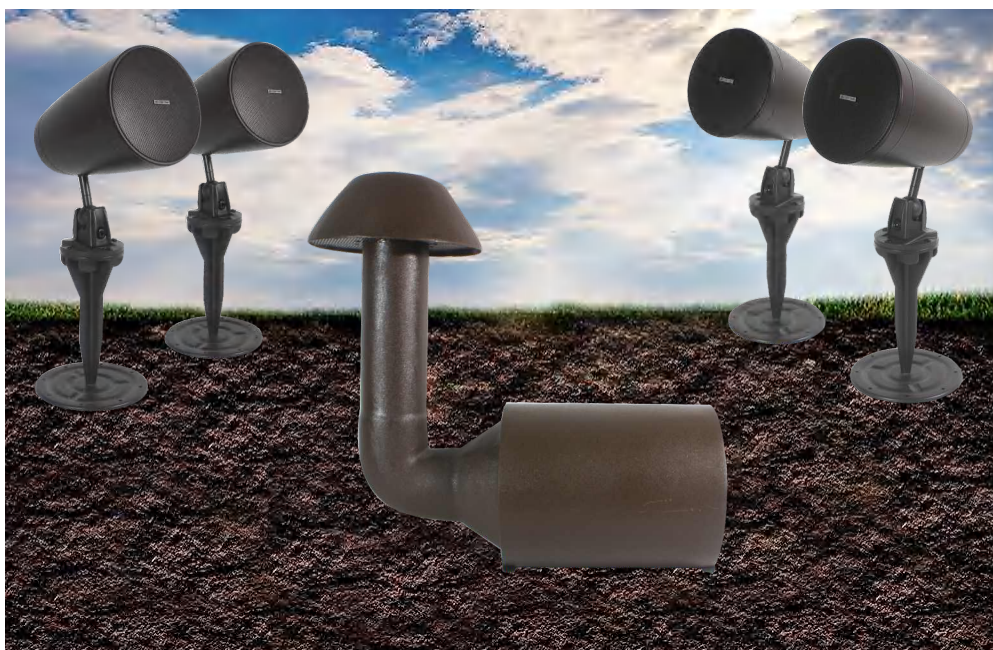
Model	GD-10SUBV
Power at 100V	250W/125W/62W
Power at 70V	125W/62W/31W
Subwoofer Type	In-ground
Frequency Response	25Hz – 250Hz
Sensitivity	88dB
Impedance	8 ohms
Rated Protection	IP66 (dust-tight and water-resistant)
Enclosure Type	Sealed
Construction Material	Weather-resistant and durable materials
Speaker Size	10 Inch
Dimensions	410x $\phi$ 325xH780mm
Net Weight	20kg

## Unleash Sonic Power Outdoors: 10" Ultra-Long Throw In-Ground Subwoofer and 4pcs of Ground Mount Coaxial Speakers Combo Package

Experience extraordinary outdoor audio with our combo package featuring the 10" Ultra-Long Throw In-Ground Subwoofer and 4pcs of Ground Mount Coaxial Speakers. Feel the earth-shaking bass of the 250W subwoofer, protected by IP66 against dust and water. Enhance your soundstage with the 4- or 5-inch coaxial speakers, delivering crisp, immersive audio. Easy installation and weather-resistant design make this combo perfect for any outdoor space. Elevate your outdoor entertainment to new heights with this powerful and versatile audio combo. Upgrade now and make your outdoor gatherings unforgettable with the ultimate audio experience.

### Features:

- ▶ Innovative & unique design
- ▶ Wide opening angle
- ▶ With high-quality polypropylene enclosure
- ▶ Adopt acoustic engineering craftsmanship
- ▶ Provide premium performance for demanding applications



Model	HWS-440G-Ground	HWS-550G-Ground
Tweeter	0.75"(20 mm) Silk soft dome	1"(25mm) Silk soft dome
Woofer	4"(100 mm) Graphite Cone, Rubber Surround	5" (125mm) Graphite Cone, Rubber Surround
Frequency Range+/-3	80 Hz-20kHz	98 Hz-20kHz
Power Handling RMS	40W	50W
Sensitivity	88 dB	88 dB
Taps	8 Ω 40W,0,20W,10W,5W,2.5W	8 Ω 50W,0,30W,15W,7.5W,3.75W
Impedance	8 ohms	8 ohms
Termination	Pluggable Terminal Blocks	Pluggable Terminal Blocks
Dimensions W*H	Dia 155 x 215mm	Dia 190 x 250mm
Certifications	IP66	IP66
Material	PP	PP

## Garden Speaker

### OD-515P

- ▶ Outdoor weatherproof garden speaker with high IP rating
- ▶ Present sound produced

IP 66



### OD-501P

- ▶ Outdoor high power speaker
- ▶ Radial design enable 360 degree sound dispersion
- ▶ Low frequency delivering depth sound

IP 66



### RK-620F

- ▶ Weather proof for outdoor application
- ▶ Elegant yet powerful sound
- ▶ With 10W transformer



Model	OD-515P	OD-501P
Power at 100V	20/10W	30W
SPL( 1W/1M)	95dB	95dB
Max SPL@ 1M	105dB	110dB
Freq. Response	80Hz-15KHz	100Hz-16KHz
Product Size	Dia 215x245mm	Dia 360x365mm
Installation	Ground fix	Ground fix
Enclosure Material	ABS	ABS
Weight	2Kg	3Kg
Color	Green	Sage Green
Speaker	5" x1 full range	4.5" x1 full range

Model	RK-620F
Power at 100V	10W/5W
Power at 70V	5W/2.5W
SPL( 1W/1M)	89dB
Max SPL@ 1M	102dB
Freq. Response	100Hz-16KHz
Product Size	230x210x270mm
Installation	Ground mounted
Enclosure Material	Synthetic Resin
Weight	3.5Kg
Finish	Grey

### RK-620

- ▶ Weather proof for out door application
- ▶ Elegant yet powerful sound
- ▶ With 20W transformer



### RK-630

- ▶ Weather proof for out door application
- ▶ Elegant yet powerful sound
- ▶ With 30W transformer



### RK-650

- ▶ Weather proof for out door application
- ▶ Elegant yet powerful sound
- ▶ With 30W transformer



### RK-6100

- ▶ Weather proof for out door application
- ▶ Elegant yet powerful sound
- ▶ With 40W transformer



Model	RK-620	RK-630	RK-650	RK-6100
Power at 100V	10/20W	15/30W	15/30W	20/40W
Power at 70V	5/10W	7.5/15W	7.5/15W	10/12W
SPL( 1W/1M)	90dB	91dB	91dB	93dB
Max SPL@ 1M	103dB	107dB	109dB	115dB
Freq. Response	100Hz-16KHz	80Hz-16KHz	80Hz-16KHz	60Hz-16KHz
Dispersion Angel	NA	NA	NA	NA
Product Size	230x210x270mm	400x300x280mm	470x320x500mm	560x470x380mm
Installation	Ground mounted	Ground mounted	Ground mounted	Ground mounted
Enclosure Material	Synthetic Resin	Synthetic Resin	Synthetic Resin	Synthetic Resin
Weight	3.5Kg	6Kg	10Kg	8Kg
Finish	Grey	Yellow	Grey	Yellow



**Waterproof Rock Speaker**
**Features:**

- ▶ **Durable Construction:** IP66 waterproof rating ensures the speaker is resistant to water and dust, making it ideal for outdoor environments.
- ▶ **Versatile Size Options:** Available in three versions to suit different audio needs – a 4" full-range speaker, a 6" coaxial speaker, and an 8" version with an 8" woofer and a 2" tweeter.
- ▶ **Natural Aesthetic:** Designed to blend seamlessly into outdoor settings with a rock-like appearance that complements gardens, patios, and other landscapes.
- ▶ **High-Quality Sound:** Despite its rugged exterior, the speaker delivers clear and powerful audio performance across all sizes, catering to various listening preferences.
- ▶ **Easy Installation:** Simple to set up in any outdoor area, whether mounted on the ground or integrated into landscaping, providing flexible placement options.


**Nature 4**

**Nature 6**

**Nature 8**

Model	Nature 4	Nature 6	Nature 8
Power at 100V	7.5/15W	15/30W	20/40W
Sensitivity	88dB ± 3	89dB ± 3	90dB ± 3
Frequency Response	125Hz-18kHz	120Hz-18kHz	115Hz-18kHz
Speaker Size	4" full range	6.5" coaxial	8" woofer + 2" tweeter
Product Size	270 × 230 × 220mm	350 × 310 × 290mm	440 × 370 × 370mm
Net Weight	2.7kg	3.3kg	7.1kg



**Outdoor Column Speaker**
**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



LM-510T



LM-520T



LM-530T



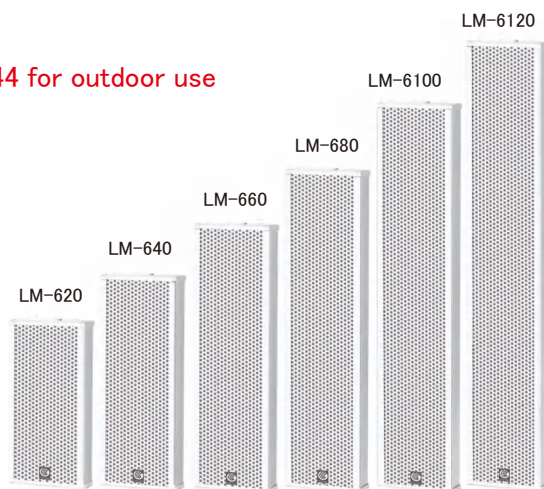
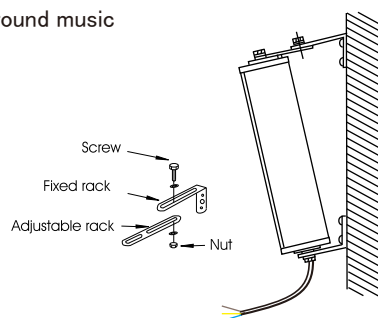
LM-540T

Model	LM-510T	LM-520T	LM-530T	LM-540T
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)

**Outdoor Column Speaker**
**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	LM-620	LM-640	LM-660	LM-680	LM-6100	LM-6120
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

**Indoor and Outdoor Column Speaker**
**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

**Default Color is Titanium Color.  
White and Khaki are optional**



Model	LSA-440	LSA-430	LSA-420	LSA-410
Power at 100V	20/40W	15/30W	10/20W	5/10W
Power at 70V	10/20W	7.5/15W	5/10W	2.5/5W
SPL( 1W/1M)	95dB	94dB	93dB	91dB
Max SPL@ 1M	110dB	108dB	106dB	101dB
Freq. Response	150Hz–18KHz	150Hz–18KHz	150Hz–18KHz	150Hz–18KHz
Dispersion Angel	180x50 degree	180x50 degree	180x50 degree	180x50 degree
Product Size	145x145x575mm	145x145x475mm	145x145x375mm	145x145x275mm
Installation	Wall mounted	Wall mounted	Wall mounted	Wall mounted
Enclosure Material	Aluminum	Aluminum	Aluminum	Aluminum
Weight	4.1Kg	3.2Kg	2.5Kg	1.8Kg
Finish	Khaki, White, Titanium Color(Light Grey)	Khaki, White, Titanium Color(Light Grey)	Khaki, White, Titanium Color(Light Grey)	Khaki, White, Titanium Color(Light Grey)
Speakers	4"x4 bass, 1"x1 treble	4"x3 bass, 1"x1 treble	4"x2bass, 1"x1 treble	4"x1bass, 1"x1 treble



## Outdoor Column Speaker

### Description:

With built-in 70V/100V transformer, LT series column speaker realizes a high-voltage, low-current mode, which makes longer distance transmission and parallel connection of multiple loudspeakers possible. It is designed for outdoor occasions such as station, park, school, square, military camp, industrial park, beach, etc.

### Features:

- ▶ Elegant outlook
- ▶ Weatherproof design for outdoor use with high IP rating.
- ▶ Aluminum enclosure & grill
- ▶ Built-in 100V/70V transformer

**IPX6 waterproof level for outdoor use**



Model	LT-168	LT-268	LT-368	LT-468
Power at 100V	30W/60W	60W/120W	90W/180W	120W/240W
Power at 70V	15W/30W	30W/60W	45W/90W	60W/120W
Sensitivity(1M/1W)	91dB	92dB	93dB	94dB
Max SPL@ 1M	107dB	111dB	114dB	116dB
Freq. Response	80Hz-16KHz	80Hz-16KHz	80Hz-16KHz	80Hz-16KHz
Installation	Wall mounted	Wall mounted	Wall mounted	Wall mounted
Enclosure Material	Aluminum	Aluminum	Aluminum	Aluminum
Weight	8.5kg	13kg	17kg	23kg
Product Size(L × W × H)	230x250x430mm	230x250x665mm	230x250x905mm	230x250x1320mm
Finish	White	White	White	White
Speaker driver	8" × 1;4" × 1	8" × 2;4" × 1	8" × 3;4" × 1	8" × 4;4" × 2

**Outdoor Column Speaker**
**Description:**

This column speaker is ideal for industrial and commercial applications in the outdoor area of train station, shopping mall, parking area and factory where background music and paging is needed.

**Features:**

- ▶ Waterproof design for outdoor application
- ▶ Speaker net cover ensures dust-proof and anti-pollution
- ▶ Durable and stainless Aluminum alloy box
- ▶ Power adjustable with Power Tag
- ▶ Small size and elegant outlook, suitable for various decoration places
- ▶ Equipped with multifunctional bracket for easy installation

IP66 waterproof level for outdoor use

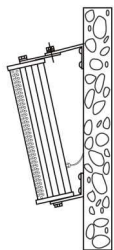


Model	LT-266	LT-466
Power at 100V	2/4/8/15/30W,30W@8ohm	5/10/20/40/60W,60W@4ohm
Power at 70V	1/2/4/8/15W	2/5/10/20/30W
Sensitivity(1M/1W)	87dB	87dB
Max SPL@ 1M	102dB	102dB
Freq. Response	140Hz-20KHz	140Hz-20KHz
Installation	Wall mounted	Wall mounted
Enclosure Material	Aluminum	Aluminum
Weight	3kg	4kg
Product Size(L × W × H)	376 × 109 × 102mm	606 × 109 × 102mm
Finish	White or black	White or black
Speaker driver	3" woofer × 2, 2" tweeter × 1	3" woofer × 4, 2" tweeter × 1



**Indoor Column Speaker**
**Features:**

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


**Rear**

**LM-210**

**LM-220**

**LM-230**

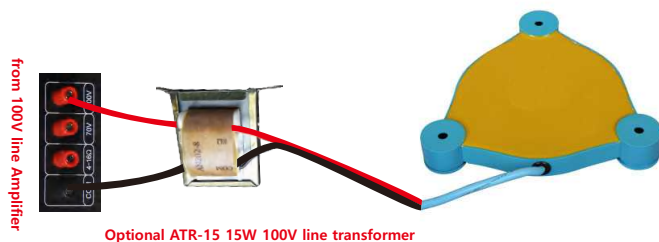
**LM-240**

Model	LM-210	LM-220	LM-230	LM-240
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

## Swimming Pool Speaker

### Features:

- ▶ With IP 68, deep water use at stylist design with Excellent frequency response
- ▶ High SPL, wide frequency range and resistance to high water pressure
- ▶ The speaker is suitable for swimming pools, spa, and all types of under the water applications



Model	SPL-01
RMS Power at 8 ohm	15W
Peak Power at 8 ohm	30W
SPL( 1W/1M)	90dB
Max SPL@ 1M	102dB
Freq. Response	70Hz-20KHz
Dispersion Angel	180x180 degree
Product Size	200x200x35mm
Installation	Under water mounted
Max dept underwater	10 Meters
Max transmit distance	20 meter
IP rating	68
Operation Temp	3 to 50 degree celcius



### Active Wall Mount Speaker Pair



#### Features:

- ▶ **Dynamic Sound:** Experience immersive audio with a pair of active wall speakers, featuring a powerful active speaker and a passive counterpart for balanced sound reproduction.
- ▶ **Built-in Amplification:** The active speaker comes equipped with a built-in amplifier, eliminating the need for external amplifiers and simplifying your audio setup.
- ▶ **Versatile Connectivity:** Equipped with line-in and line-out for seamless integration with various audio sources and systems.
- ▶ **Microphone Input:** Allows direct connection for microphone use, ideal for presentations and public speaking.
- ▶ **Customizable Sound Control:** Features adjustable bass, treble, and master volume for precise sound tuning to suit any environment.
- ▶ **Easy Installation:** Designed for hassle-free setup, these speakers mount directly onto the wall, saving space while complementing any room decor.

#### Ordering Code:

WP-220AW/WP-220AB: 4" Active Wall Speaker Pair, 2x20W, white/black color  
 WP-230AW/WP-230AB: 5" Active Wall Speaker Pair, 2x30W, white/black color  
 WP-220VW/WP-220VB: 4" Wall Speaker, 100V & 8Ohm, white/black color  
 WP-230VW/WP-230VB: 5" Wall Speaker, 100V & 8Ohm, white/black color  
 WP-220LW/WP-220LB: 4" Wall Speaker, 8Ohm, white/black color  
 WP-230LW/WP-230LB: 5" Wall Speaker, 8Ohm, white/black color



Model	WP-220AW/WP-220AB	WP-230AW/WP-230AB
Rated Power	2x20W	2x30W
Impedance	8ohm	8ohm
Sensitivity	90±2dB	92±2dB
Max. SPL	103±2dB	105±2dB
Frequency Response	95Hz-20KHz	80Hz-20KHz
THD	≤1%	≤1%
Channel Separation	≥60dB	≥60dB
SNR	≥81dB	≥81dB
Input & Output	RCA line input, RCA line output, 6.3mm microphone input	RCA line input, RCA line output, 6.3mm microphone input
Amplifier	Class-D	Class-D
Power Supply	AC220-240V 50Hz/60Hz or DC24V 3A	AC220-240V 50Hz/60Hz or DC24V 3A
Speaker Unit	4" woofer x 1, 1" tweeter x 1	5" woofer x 1, 2" tweeter x 1
Enclosure Material	ABS	ABS
Product Dimensions	255x194x185mm	285x194x185mm
Net Weight	4.2KG/pair	5.1KG/pair
Color	White/Black	White/Black

**Active Horn Speaker**
**Description:**

With high SPL and all-weather design, it provides an ideal audio solution for outdoor public areas where surveillance cameras have been widely applied, but lack of real-time interference through recorded messages or speaking to the sites to prevent or stop any unexpected events.

**Features:**

- ▶ Strong and intelligible sound effect
- ▶ IP66 water-proof design
- ▶ Built-in high efficiency Class-D amplifier
- ▶ Durable ABS enclosure
- ▶ Easy and fast installation and connection
- ▶ With 1 AUX IN



Model	AHP-30/AHP-30POE	AHP-15/AHP-15POE
Rated Power	30W	15W
Power Supply	DC12V/DC12V or POE	DC12V/DC12V or POE
SPL(1W/1M)	96dB	92dB
Max. SPL@1M	108dB	105dB
Freq. Response	400Hz-8KHz	400Hz-8KHz
Dispersion Angel	230 degree	230 degree
Enclosure Material	ABS	ABS
Dimension	285x205x290mm	225x165x240mm
Installation	Bracket mount	Bracket mount
Color	White	White



**120W Ferrite Unit Array Acoustic Column Speaker**

**Description**

Designed for small and medium-sized video conference rooms, digital courts, conference centers, lecture halls, lecture halls, other language-based sound reinforcement systems, and background music systems for various architectural spaces such as churches, museums, transportation hubs, and public areas in squares. This model solves a typical problem that the column speaker of the is too large to put on the wall, and it also looks not beautiful and tidy. Through the Constant Beam Technology in the line array sound column speaker, the problem of projection and interference of the traditional conference room speaker is solved. Therefore, in terms of sound performance, it is very good for the human sound reinforcement.

**Features:**

- ▶ The array column loudspeaker adopts streamlined design with beautiful and practical appearance, which is suitable for sound reinforcement of various architectural spaces in superb sound quality.
- ▶ The sound column speaker are the fiberglass reinforced ABS cabinet, which is sturdy and durable.
- ▶ The circular waveguide hole in the front and the damping port at the rear of the box form a unique low-frequency cardioid diffusion. The treble is crisp and sweet, the sound is natural and thick, and the bass is full.
- ▶ 4\*3 inch high performance Ferrite drive unit.
- ▶ ABS cabinet with UV resistant paint at IP55 rating is excellent for both outdoor and indoor applications
- ▶ UL94V-0 anti-flaming grade material (optional).
- ▶ Aluminum mesh cover and anti-rust cabinet.
- ▶ Optional intelligent installation accessories, with level device, quick release handle device, shockproof rubber pad.

Model	LA-100B/LA-100W	LA-100LB/LA-100LW
Input	70V/100V/8Ω	8Ω
Rated power	40W/80W/160W	160W
SPL (1W/1m)		95dB
Maximum SPL (1W/1m)		123dB
Frequency response	150Hz~14kHz, -6dB/ 80Hz~20kHz, -10dB	
Cabinet material	ABS plastic and fiberglass	
Mesh material	Aluminum	
Diffusion angle (-6dB)	vertical>20° , horizontal>120°	
Mounting holes	10 pcs of M6	
Installation	Intelligent mounting bracket or embedded mounting bracket	
Color	Black or white	
Cone material	Pulp coating	
Dimension (H*W*D)	530*100*150mm	
Net weight	4.1kg	
Gross weight	5.38kg	
Speaker driver	4x3" Ferrite	

## 270W Ferrite Unit Array Acoustic Column Speaker

### Description

Designed for small and medium-sized video conference rooms, digital courts, conference centers, lecture halls, lecture halls, other language-based sound reinforcement systems, and background music systems for various architectural spaces such as churches, museums, transportation hubs, and public areas in squares. This model solves a typical problem that the column speaker of the is too large to put on the wall, and it also looks not beautiful and tidy. Through the Constant Beam Technology in the line array sound column speaker, the problem of projection and interference of the traditional conference room speaker is solved. Therefore, in terms of sound performance, it is very good for the human sound reinforcement.

### Features

- ▶ The array column loudspeaker adopts streamlined design with beautiful and practical appearance, which is suitable for sound reinforcement of various architectural spaces in superb sound quality.
- ▶ The sound column speaker is the fiberglass reinforced ABS cabinet, which is sturdy and durable.
- ▶ The circular waveguide hole in the front and the damping port at the rear of the box form a unique low-frequency cardioid diffusion. The treble is crisp and sweet, the sound is natural and thick, and the bass is full.
- ▶ 8\*3-inch high-performance Ferrite drive unit.
- ▶ ABS cabinet with UV resistant paint at IP55 rating is excellent for both outdoor and indoor applications



### Ordering Code:

**LA-308LB V2:** 270W@4OHM, Black

**LA-308B V2:** 270W@4OHM, 100W@100V, 50W@70V, Switchable between music/speech modes, Black

**LA-308LW V2:** 270W@4OHM, White

**LA-308W V2:** 270W@4OHM, 100W@100V, 50W@70V, Switchable between music/speech modes, White

Model	LA-308LB V2	LA-308B V2
Input Modes	Constant impedance	Constant voltage
Operating Modes	/	Switchable between music/speech modes
Input	4 Ω	100V/70V/4 Ω
Power at 8 Ω	270W (1080W, Peak)	270W (1080W, Peak)
Power at 100V	/	200W/100W/50W/25W
Power at 70V	/	100W/50W/25W/12.5W
SPL (1W/1m)	93dB	
Maximum SPL (1W/1m)	124dB	
Frequency Response	100Hz~20kHz	
Cabinet Material	ABS plastic and fiberglass	
Mesh material	Aluminum	
Diffusion Angle (-6dB)	Vertical >30° , Horizontal >160°	
Installation	Intelligent mounting bracket or embedded mounting bracket	
Color	Black/White	
Dimension (H*W*D)	934x98x150mm	
Net Weight	4.85kg	
Speaker Driver	8x3" Ferrite	

## 4x2.5" Neodymium Magnet Array Acoustic Column Speaker

### Description

Designed for small to medium-sized video conference rooms, digital courtrooms, conference centers, auditoriums, lecture halls, and other speech amplification systems, as well as background music systems in various architectural spaces such as churches, museums, transportation hubs, and public areas like squares. It addresses the issue of traditional conference room speakers being too large and unsightly when wall-mounted.

### Features

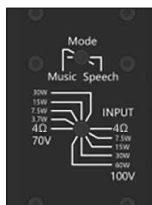
- ▶ 4x2.5" high-performance neodymium magnetic drive units.
- ▶ The array column speaker features a streamlined design with a newly designed Apple
- ▶ Gray color, which is understated, steady, aesthetically pleasing, and practical. It is suitable for sound amplification in various architectural spaces, delivering beautiful and pleasing sound quality.
- ▶ The column speaker uses an ABS hybrid aluminum alloy reinforced enclosure, making it sturdy and durable.
- ▶ The newly designed round waveguide port creates a unique low-frequency cardioid dispersion, producing crisp and pleasant high tones, naturally rich and full midtones, and deep bass.
- ▶ Optional installation accessories include a level device, handle device, and anti-vibration rubber pads.



▲ conference rooms



▲ museums



### Ordering Code:

**LA-425LB V2:** 100W@4OHM, Black

**LA-425B V2:** 100W@4OHM, 60W@100V, 30W@70V, Switchable between music/speech modes, Black

**LA-425LW V2:** 100W@4OHM, White

**LA-425W V2:** 100W@4OHM, 60W@100V, 30W@70V, Switchable between music/speech modes, White

Model	LA-425LB V2	LA-425B V2
Speaker Driver	4x2.5" neodymium magnetic	
Input Modes	Constant impedance	Constant voltage
Operating Modes	/	Switchable between music/speech modes
Input	4Ω	100V/70V/4Ω
Rated Power (4Ω)	100W (400W, Peak)	
Rated Power (100V)	/	60W/30W/15W/7.5W
Rated Power (70V)	/	30W/15W/7.5W/3.7W
Sensitivity (1m/1W@4Ω)	94dB	
Sensitivity (1m/1W@100V/70V)	/	92dB
SPL in Designated Band (4Ω)	111dB	
SPL in Designated Band (100V/70V)	/	109dB
Effective Frequency Range	106Hz~20kHz	
Enclosure Material	ABS hybrid aluminum alloy reinforced enclosure	
Grille Material	Metal mesh	
Dispersion Angle	Vertical 20°, Horizontal 120°	
Mounting Holes	2 x M6	
Mounting System	Adjustable angle mounting bracket or narrow wall distance mounting bracket	
Color	Black/White	
Connection Method	1 x NL4 socket (+1/-1) + 1 x Phoenix terminal	
Dimensions (H x W x D)	670 x 80 x 100mm	
Net Weight	2.2kg	3kg
Gross Weight	6.5kg (box of 2)	7.1kg(box of 2)

## 9x2.5" Neodymium Magnet Array Acoustic Column Speaker

### Description

Designed for small to medium-sized video conference rooms, digital courtrooms, conference centers, auditoriums, lecture halls, and other speech amplification systems, as well as background music systems in various architectural spaces such as churches, museums, transportation hubs, and public areas like squares. It addresses the issue of traditional conference room speakers being too large and unsightly when wall-mounted.

### Features

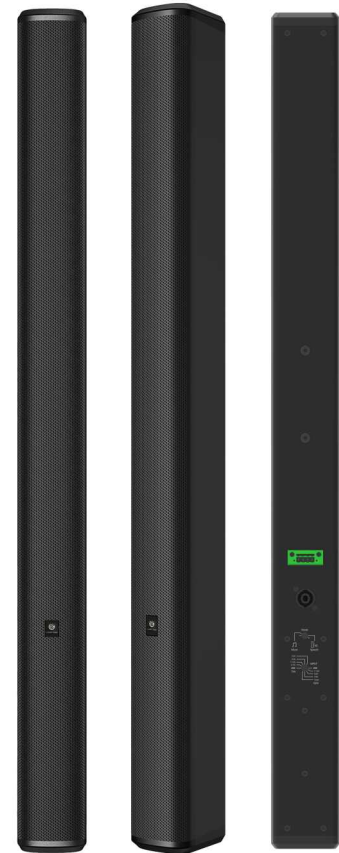
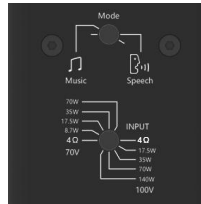
- ▶ 9x2.5" high-performance neodymium magnetic drive units.
- ▶ The column array speaker adopts a streamlined design with a newly designed apple gray color, giving it a low-key, steady, and aesthetically pleasing appearance, suitable for various architectural spaces for sound reinforcement, with beautiful and pleasant sound quality.
- ▶ The column speaker uses an ABS composite aluminum alloy reinforced cabinet, making it sturdy and durable.
- ▶ The newly designed circular waveguide holes create a unique cardioid low-frequency dispersion, delivering crisp and pleasant high frequencies, naturally robust mid-tones, and full-bodied bass.



Conference centers



Airport



### Ordering Code

LA-925LB V2: 220W@4ΩHM, Black

LA-925B V2: 220W@4ΩHM, 140W@100V, 70W@70V, Switchable between music/speech modes, Black

LA-925LW V2: 220W@4ΩHM, White

LA-925W V2: 220W@4ΩHM, 140W@100V, 70W@70V, Switchable between music/speech modes, White

Model	LA-925LB V2	LA-925B V2
Input Modes	Constant impedance	Constant voltage
Operating Modes	/	Switchable between music/speech modes
Input	4 Ω	100V/70V/4 Ω
Rated Power (4 Ω)	220W (800W, Peak)	
Rated Power (100V)	/	140W/70W/35W/17.5W
Rated Power (70V)	/	70W/35W/17.5W/8.7W
Sensitivity (1m/1W@4 Ω)	94dB	
Sensitivity (1m/1W@100V/70V)	/	93dB
SPL in Designated Band (4 Ω)	114dB	
SPL in Designated Band (100V/70V)	/	112dB
Effective Frequency Range	95Hz~20kHz	
Enclosure Material	ABS composite fiberglass reinforced cabinet	
Grille Material	Metal mesh	
Dispersion Angle	Vertical 20° , Horizontal 120°	
Mounting Holes	2 x M6	
Mounting System	Adjustable angle mounting bracket or narrow wall distance mounting bracket	
Color	Black/White	
Connection Method	1 x NL4 socket (+1/-1) + 1 x Phoenix terminal	
Dimensions (H x W x D)	960x80x100mm	
Net Weight	4.15kg	4.65kg
Gross Weight	10.2kg (box of 2)	11.5kg(box of 2)



## Compact Outdoor Line Array Speaker

### Features

- ▶ Controllable coverage features for 60, 45, 30, and 15 degree
- ▶ Ideal for both permanent and temporary installations, including both vertical and horizontal positioning.
- ▶ Equipped with a convenient carrying handle.
- ▶ Can be mounted directly on a wall or suspended by wire, chain or shackle with no need to use optional brackets.
- ▶ Optional mounting brackets allow use in a wide variety of applications, including suspension, ceiling mount, wall mounting, and speaker stand mounting.



Transformer



LA-200BRR



LA-200BRC

### Ordering Code

**LA-200:** 200W outdoor Line array speaker 8 OHM

**LA-200T:** 200W outdoor Line array speaker with Transformer

**LA-200BRC:** LA-200 Ceiling mounting bracket, optional to order

**LA-200BRR:** LA-200 Rigging frame, optional to order

**LA-200BRCB3:** LA-200 Hanging cable 3 Meter\*3, optional to order

**LA-200BRCB5:** LA-200 Hanging cable 5 Meter\*3, optional to order

**LA-200BRCB10:** LA-200 Hanging cable 10 Meter\*3, optional to order

Model	LA-200T	LA-200
Enclosure	Bass-reflex type	
Power at 100V	30/60/120/200W	/
Power at 8ohm	/	200W
Sensitivity (1 W, 1m)	96 dB (60° mode), 97 dB (45° mode), 98 dB (30° mode), 99 dB (15° mode).	
Frequency Response	70 to 20,000 Hz(60° mode), 75 to 20,000 Hz(45° mode)	
(Deviation-10 dB)	80 to 20,000 Hz(30° mode), 85 to 20,000 Hz(15° mode)	
Crossover Frequency	4 kHz	
Directivity Angle	Horizontal: 100 (over 2,000 Hz) Vertical: 60° (over 800 Hz), 45° (over 1.2 kHz), 30° (over 1.6 kHz), 15° (over 3.2 kHz) variable	
Speaker	Low frequency: 12 cm (5") cone-type x 4 High frequency: Balanced dome-type x 12	
Input Terminal	Two core wire	
Finish (Enclosure)	Polypropylene, white	
Dimensions	408(w) x 546(h) x 342(d) mm	
Color	White/Black	
Weight	18kg	16kg

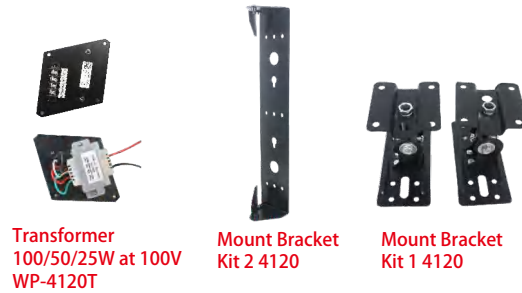
## Wall Speaker

### Features:

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



### Optional accessories to order



**Transformer**  
100/50/25W at 100V  
WP-4120T

**Mount Bracket**  
Kit 2 4120

**Mount Bracket**  
Kit 1 4120

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

## Two-Way All-Weather Horn Speaker



### Description

The compact models give systems designers increased flexibility by offering vastly improved music playback, additional coverage patterns and higher output in attractive paintable enclosures.

Both models include front-loaded LF drivers in highly reinforced enclosures for natural, nonreasoning low frequency reproduction, while identical voicing ensures a uniform listening experience.

### Features:

- ▶ Ultra-compact size, high output
- ▶ Premium music applications  
full frequency horn, professional, all weather
- ▶ With switch selection 70V, 100V, and 8 ohms
- ▶ With IP, SIP Net audio with our Eco IP system
- ▶ IP 55 for outdoor application

### Ordering Code:

**RC-10V: 250W@8ohm ; 150W@100V**  
**RC-10V IP : 250W IP Net audio, Powered**  
**RC-10V SIP : 250W SIP Net audio, Powered**  
**RC-12V: 400W@8ohm; 250W@100V**  
**RC-12V IP : 400W IP Net audio, Powered**  
**RC-12V SIP : 400W SIP Net audio, Powered**  
**RC-15V: 600W @8ohm; 400W @100V**  
**RC-15V IP : 600W IP Net audio, Powered**  
**RC-15V SIP : 600W SIP Net audio, Powered**

Model	RC-10V	RC-12V	RC-15V
Rated power	250W@8ohm ; 150W@100V	400W@8ohm; 250W@100V	600W @8ohm; 400W @100V
Maximum power	500W	800W	1200W
Input	8ohm/100V	8ohm/100V	8ohm/100V
Sensitivity (1W/1M)	99dB / 96dB ± 3dB	99dB / 96dB ± 3dB	100dB / 99dB ± 3dB
Sensitivity Max	119dB / 116dB ± 3dB	124dB / 121dB ± 3dB	127dB / 124dB ± 3dB
Frequency response	70Hz-20KHz	70Hz-20KHz	70Hz-20KHz
Material	Fiber glass body, Metal frame	Fiber glass body, Metal frame	Fiber glass body, Metal frame
Speaker unit	10" 75VC bass + 44 VC treble	12" 75VC bass + 44 VC treble	15" 75VC bass + 75 VC treble
Product size	630*450*450mm	760*580*580mm	760*580*580mm
Weight	26KG	33KG	35KG

**Ultra-Compact Coaxial Two-Way All-weather Horn Speaker**
**Description**

The compact models give systems designers increased flexibility by offering vastly improved music playback, additional coverage patterns and higher output in attractive paintable enclosures. Both models include front-loaded LF drivers in highly reinforced enclosures for natural, non-resonant low frequency reproduction, while identical voicing ensures a uniform listening experience.

**Ordering Code:**

**RC-150: 8 ohm 150W**

**RC-150T: 100V line 150W**

**RC-200: 8 ohm 200W**

**RC-300: 8 ohm 300W**

**RC-200T: 100V line 200W**

**RC-300T: 100V line 300W**

**RC-200 IP : 200W IP Net audio, Powered**

**RC-300 IP : 300W IP Net audio, Powered**

**RC-200 SIP : 200W SIP Net audio, Powered**

**RC-300 SIP : 300W SIP Net audio, Powered**

**Features:**

- ▶ Ultra-compact size, high output
- ▶ Premium music applications
- ▶ full frequency horn, professional, all weather
- ▶ With switch selection 70V, 100V, and 8 ohms
- ▶ With IP, SIP Net audio with our Eco IP system
- ▶ IP 55 for outdoor application



Model	RC-150/RC-150T		RC-200/RC-200T		RC-300/RC-300T	
Rated power	150W@8ohm	18.5W/37.5W/75W/150W@100V 9.5W/18.5W/37.5W/75W@70V 150W @8ohm	200W@8ohm	25W/50W/100W/200W@100V 200W@8ohm	300W@8ohm	37.5W/75W/150W/300W@100V 300W@8 ohm
Maximum power	300W		400W		600W	
Input	8ohm	70V/100V/8ohm	8ohm	70V/100V/8ohm	8ohm	70V/100V/8ohm
Sensitivity (1W/1M)	93dB ± 3dB		103dB ± 3dB		103dB ± 3dB	
Frequency response	80Hz-18KHz		70Hz-18KHz		70Hz-18KHz	
Radiation angle	∠120° / ∠90-100°		∠90-100°		∠60-120°	
Speaker unit	10"*1(Bass), 3"*1(Treble)		10"*1(Bass), 1"*1(Treble)		12"*1(Bass), 1.5"*1(Treble)	
Color	White		Black		Black	
Product size	345*355*297mm		385*355*348mm		375*435*395mm	
Weight	10.5KG/11KG		13.5KG/15KG		18.5KG/20KG	



## Two-Way All-Weather Horn Speaker

### Description:

This high-power outdoor waterproof loudspeaker has the functions of fireproof, anticorrosion, and waterproof, and can adapt to various extreme climates and different environments. It is suitable for public places such as stadiums, schools, troops, air defense alarms, rural broadcasting, seaside beaches, highways, mines, chemical plants, etc.

### Features

- ▶ All-weather design, the shell made by aerospace industry technology, is resistant to acid and alkali, salt spray, and can withstand high-strength impact and vibration.
- ▶ The maximum output sound pressure level can reach more than 139dB at 1 meter, the music effect transmission is more than 400 meters, and the voice transmission distance is more than 500 meters.
- ▶ Aviation composite material, high strength, light weight and good protection performance.
- ▶ Waterproof, dustproof, shock and vibration proof.

### Ordering Code:

**RM-150V: 8 inch 100V line 100W, 150W at 8ohm**  
**RM-150L IP : 8 inch 150W IP Net audio, Powered**  
**RM-150L SIP : 8 inch 150W SIP Net audio, Powered**  
**RM-200V: 10 inch 100V line 150W, 200W at 8ohm**  
**RM-200L IP : 10 inch 200W IP Net audio, Powered**  
**RM-200L SIP : 10 inch 200W SIP Net audio, Powered**  
**RM-300V: 12 inch 100V line 250W, 300W at 8ohm**  
**RM-300L IP : 12 inch 300W IP Net audio, Powered**  
**RM-300L SIP : 12 inch 300W SIP Net audio, Powered**  
**RM-400V: 15 inch 100V line 400W, 400W at 8ohm**  
**RM-400L IP : 15 inch 400W IP Net audio, Powered**  
**RM-400L SIP : 15 inch 400W SIP Net audio, Powered**



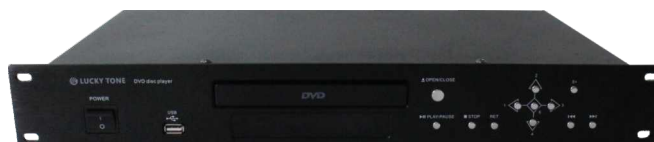
Model	RM-150V	RM-200V	RM-300V	RM-400V
Rated Power	100W@100V, 150W@8ohm	150W@100V, 200W@8ohm	250W@100V, 300W@8ohm	400W@100V, 400W@8ohm
Input	100V/ 8ohm	100V/ 8ohm	100V/ 8ohm	100V/ 8ohm
Freq. Response	70HZ-20KHZ	70HZ-20KHZ	70HZ-20KHZ	70HZ-20KHZ
Sensitivity	96dB	100dB	102dB	104dB
Max. SPL	110dB	120dB	124.8dB	139dB
Speaker	8"x1(Bass) 3"(44core) x1(Treble)	10"x1(Bass) 3"(44core) x1(Treble)	12"x1(Bass) 3"(75 core) x1(Treble)	15"x1(Bass) 3"(75 core) x1(Treble)
Color	White	White	White	Green
Dimension	NA	NA	460x420x420mm	490x490x480mm
Weight	16kgs	18kgs	28kgs	33kgs



## DVD Player with USB

### Features:

- ▶ Integrate Mp3 player with USB in the front.
- ▶ Stereo line output and video output by RCA.
- ▶ With wireless IR remote controller.
- ▶ Support DVD, VCD, CD, HDCD, DIVX, SVCD, MPEG4, Mp3, WMA, CDR/RW format disc and auto play function



Model	AS-DVD
Audio Output	600 ohms, 775mV
Video Output	75 ohms, 775mV
THD	Less than 0.01% at 1kHz
S/N Ratio	Bigger than 80dB
Power Requirements	220-240V AC, 50/60 Hz;
Frequency Response	20Hz-18KHz
Power Consumption	10-15 W
Built-in Dimensions	1.5 U rack 19 inch
Net/Gross Weight	2.7/3.8 kg
Dimensions	51(H) x 483(W) x 250(D) mm

## 2-Channel All-In-One Audio Player

### Features:

- ▶ Integrate with DVD, Mp4, Mp3, CD, tuner USB, and Bluetooth into one U unit
- ▶ With selectable 2 channel outputs.
- ▶ Equipped with 2 USB inputs
- ▶ Stereo line output and video output by RCA
- ▶ Fast scan with manual and auto tuning.
- ▶ With wireless IR remote controller.
- ▶ Up to 60 channel memories can be set.
- ▶ Mon and stereo output selection.



Model	AS-D6
Audio Output	10K ohms, less than 500mV unbalanced
Frequency Range	FM 87MHz- 108Mhz
Antenna Input	75 ohms
THD	Less than 0.01% at 1kHz
S/N Ratio	FM Bigger than 45dB
Power Requirements	220-240V AC, 50/60 Hz;
Frequency Response	20Hz-18KHz
Power Consumption	10-15 W
Built-in Dimensions	1 U rack 19 inch
Net/Gross Weight	2.3/3.1 kg
Dimensions	45(H) x 483(W) x 255(D) mm

## Emergency Microphone Panel

### Features:

- ▶ LED display screen with flash indicator to show the fire status
- ▶ 50 seconds message recording
- ▶ Manual / Auto trigger recorded message
- ▶ Vol control for handheld and PPT mic
- ▶ Short circuit try contact to activate emergency message



Model	EM-3
Audio Output	SIREN/Play/EMIC2 > or = to 8 mV, unbalanced
TRIG Output	Short Circuit signal activation output
Record Input	MIC >or= to 8 mV unbalanced, Line >or= 330mV unbalanced
Alarm Input	Short Circuit signal input
Alarm activation mode	Manual operation / alarm signal
Power Requirements	24VDC/500MA
Display	LCD Indicator
Power Consumption	Less than 10W
Built-in Dimensions	2 U rack 19 inch
Net Weight	5 kg
Dimensions	89(H) x 483(W) x 366(D) mm

## Programmable MP3 Timer

### Features:

- ▶ With 4GB built-in memory, expandable to 8, 16 and 32GB
- ▶ 3.2 inch TFT true color display
- ▶ Support external U disc play
- ▶ Timing program via PC
- ▶ 4 sets of program, each up to 240 timings.
- ▶ With built-in FM function.
- ▶ With dry contact input to activate the built-in MSG.
- ▶ 1 MIC and 1 Aux inputs; 2 aux outputs.



Model with suffix "T" means touch screen version



Model	AS-TIME6/AS-TIME6T
Audio Output	10K ohms, less than 500mV unbalanced
Frequency Range	FM 87Mhz~ 108Mhz
Antenna Input	75 ohms
THD	Less than 0.01% at 1kHz
S/N Ratio	Better than 80dB
Power Requirements	220~240V AC, 50/60 Hz;
Frequency Response	20Hz~18KHz
Power Consumption	10~15 W
Built-in Dimensions	2 U rack 19 inch

## Window Intercom System



### Description:

TBK-10 intercom system is primarily used in the counters and Bank/Window, or any places where conversations need to be Assisted.

### MODLE

### TBK-10

Power supply	DC 220/110V
Working voltage	DC 14V
Microphone sensitivity	-42 ± 2dB
Host power	5W + 1W
Maximum working current	600mA
Frequency response	80Hz-14KHz

### Features:

- ▶ Fashion appearance and clear sound effect
- ▶ Volume control and MIC control
- ▶ Supervisor talk-in conversation can not be heard by window sub stations
- ▶ Built-in recording signal output, can provide master station and sub station audio output for recording
- ▶ Simple connection and easy to install

### Description:

TBK-20 intercom system is primarily used in the counters and Bank/Window, or any places where conversations need to be Assisted.



### MODLE

### TBK-20

Working voltage	DC9V
Max working current	600mA
Main and assistant sound boxes	2W-2W 100Hz-15KHz
Outside microphone	-48db
Inside microphone	-48db
Other function	Dual-way audio record
Exterior size	158*87*46mm(Master Station) 78*20mm(Sub Station)

### Features:

- ▶ Streamline design, main unit is made of luxurious aluminum alloy and internal microphone for the extension. One-cable connection and simple installation
- ▶ High quality speaker for main unit and extension, high sensitive microphone, longer metal tube microphone for dual-way intercommunication
- ▶ Adjustable volume with separate switch.
- ▶ Auto dual-way intercommunication without pressing any button
- ▶ Double-track adjustment with indicating light
- ▶ Spare record jack for the bank

## Voice Connect System

### Description:

Consisting of 2 microphone units, TBK-30Voice Connect system is a new, hygienic, safe and flexible solution especially for acrylic glass walls and cabins in pharmacies, medical practices, stores and supermarkets as well as for visitor booths in nursing homes.



### MODLE

### TBK-30

Power supply	DC 12V.3W
Microphone	with AEC+NR
Operation Temp.	0~40°C
Operation Humidity	5%~90% RH
Storage Temp.	-20~60°C
Protection class	IP33
Frame Material	ABS
Dimensions	108x90x24mm

### Features:

- ▶ Easy for installation. Attach, plug in and speak
- ▶ Enables consultation and communication under protective measures
- ▶ Reduced risk of infection through droplet infection. Neither physical approach nor louder speaking is necessary.
- ▶ Employees and customers communicate effortlessly clearly and securely—even with mouth protection and in the case of strong background noise thanks to integrated AEC and NR technology.

## Wired Microphone

### MI-102

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



### MI-103

- Fashionable outlook
- Tunable mic gooseneck
- Ultra directivity



### MI-103D

- 2 capsule microphone
- Tunable mic gooseneck
- Red LED indicator



### MI-104A

- Adjustable Mic gooseneck
- ON/OFF switch
- XLR connector



Model	MI-102	MI-103	MI-103D	MI-104A
Capsule Type	Condenser	Condenser	Condenser	Condenser
Frequency Response	40Hz-16KHz	40Hz-18KHz	40Hz-18KHz	100Hz-15KHz
Polar Pattern	Cardiod	Supper Cardiod	Supper Cardiod	Cardiod
Output Impedance	200 ohms	75 ohms	75 ohms	150 ohm (unbalanced)
Sensitivity	-43dB	-45dB	-45dB	-35dB
Power Requirements	12VDC	48 V phantom power	48 V phantom power	3V DC
Product Weight	1Kg	0.6Kg	0.65Kg	0.72Kg

### MI-105

- Dynamic microphone
- No power is required
- With ON/OFF switch



### MI-D3

- Smart on/off switch
- Condenser microphone



### MD-100

- Flexible microphone stand
- Table type
- 26cm Long



### HM-100

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



Model	MI-105	MI-D3	MD-100	HM-100
Capsule Type	Dynamic	Condenser	NA	Dynamic
Frequency Response	50Hz-12KHz	30Hz-20KHz	NA	50Hz-16KHz
Polar Pattern	Cardiod	unidirectional	NA	Cardiod
Output Impedance	600 ohms	75 Ω	NA	600 ohms
Sensitivity	-46dB	-45dB	NA	-46dB
Power Requirements	NO need	DC3V or 48V phantom power	NA	NA
Product Weight	1.2Kg	0.87KG	1.5Kg	0.6Kg



## Wired Microphone

### MI-106+

- ▶ Long standing microphone
- ▶ Max 1700mm
- ▶ With super direct dual capsule
- ▶ 10Meters of XLR Male to Female cable is optial



### MI-107

- ▶ Fashionable outlook
- ▶ Built-in ding dong chime
- ▶ Red LED indicator



### MI-108

- ▶ Fashionable outlook
- ▶ Programmable chime
- ▶ Ultra directivity



### MI-109

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



Model	MI-106+	MI-107	MI-108	MI-109
Capsule Type	Condenser	Condenser	Condenser	Condenser
Frequency Response	40Hz-16KHz	80Hz-12KHz	60Hz-15KHz	40Hz-17KHz
Polar Pattern	Super Direct	Cardiod	Supper Cardiod	Supper Cardiod
Output Impedance	200 ohms	200 ohms	75 ohms	200 ohms
Sensitivity	-35dB	-43dB	-47dB	-32dB
Power Requirements	11-52 V phantom power	3VDC	9VDC/230VAC	9VDC/230VAC
Product Weight	3.5Kg			

### MD-200

- ▶ Durable Construction
- ▶ Adjustable Height
- ▶ Attractive Design
- ▶ Easy to Assemble



### MI-105VP

- ▶ Fashionable outlook
- ▶ Red LED indicator



### MI-D6

Aluminum base microphone with short boom

- ▶ To combine a high-performance miniature condenser microphone with a functional desktop base
- ▶ Ultra directivity
- ▶ 48V phantom power



### MI-D6L

Aluminum base microphone with long boom

- ▶ To combine a high-performance miniature condenser gooseneck microphone with a functional desktop base
- ▶ Tunable mic gooseneck
- ▶ Ultra directivity
- ▶ 48V phantom power



Model	MD-200
Material	Cast Iron Base with Metal Stand
Adjustable Height	80-160CM
Base Diameter	250mm
Base Thickness	12mm
Design	Disk Shape Base, Sturdy and Stable
Compatibility	Suitable for Capacitor Microphones and Other Types of Microphones
Usage	Floor Standing, Ideal for Live Performances, Studios, Conferences, and More
Gross Weight	3.5 kg
Color	Black

Model	MI-105VP
Capsule Type	Condenser
Freq. Response	20Hz-20KHz
Polar Pattern	Cardiod
Output Impedance	75 ohms
Sensitivity	-43dB
Power requirements	DC3V / 48V phantom power
Product Weight	1 Kg

Model	MI-D6/MI-D6L
Type	Capacitive
Freq. Response	40Hz-18kHz
Directivity	Super-cardioid
Output Impedance	75 Ω
Sensitivity	-45dB
Max. input SPL	135dB
Dynamic range	109 dB, 1KHz
SNR	70 dB
Power Requirements	48 V phantom power

## Wired Microphone

### Plug-and-Use USB Microphone Array



#### Features:

- ▶ The fastest and easiest way to get high quality recording and live streaming.
- ▶ With custom-made heart-shaped point-to-capacitor tip, offering a clear sound quality that goes well beyond your built-in computer microphone.
- ▶ Make sure the sound is clear and clean no matter where you use it (at home or in the office).
- ▶ Simple USB connections and plug-and-play allow you to record and transmit amazing sounds without additional devices.

Model	ME1
Power demand	5V-50mA (USB)
Data transmission	USB1.0 USB2.0 Full-Speed Device
Sampling rate	
ADC	24-bit 192K sampling
DAC	24-bit 48K sampling
Bit rate	16/24bit
Frequency response	20Hz-20KHz
System compatibility	Windows7 and above, OSX10.9 and above.
Sensitivity	-40dB
Maximum sound pressure level (SPL)	120dB
THD	0.5% 1KHz
Output impedance	33Ω
Output power (RMS)	100mW
Chip signal-to-noise ratio	≥73db

### Boundary Microphone



#### Features:

- ▶ Steady extended frequency response provides high-performance sound response
- ▶ Uni directional with high sensitivity
- ▶ Support 48V phantom power supply

Model MI-B02 is with on/off switch and red indicator

Model	MI-B01	MI-B02
Capsule Type	Condenser	Condenser
Frequency Response	30Hz-20KHz	30Hz-20KHz
Polar Pattern	Super Cardioid	Super Cardioid
Output Impedance	75 ohm	75 ohm
Sensitivity(±2dB)	-36dB	-36dB
Power Supply	Phantom Power 48V	Phantom Power 48V
Net weight	506g	172g
Sound Pick-up Distance	5m	5m
Dimension(W*D*H)	75*102*28mm	75*102*28mm
Output/Indicator	Balance Base Indicator	Balance Base Indicator
Output Connector	XLR male	XLR male
Additional Functions	No	With on/off switch and indicator

### Phantom Power Supply



#### Features:

- ▶ Optimized PCB design ensures low-noise transmission.
- ▶ With a soft starter, minimizing the impact on other circuits when power on and off.
- ▶ No need to change battery when using with microphone supporting 48V phantom power.
- ▶ Features a single channel unit with balanced mic inputs and outputs to connect in-line with mic and mixer.
- ▶ On/off power switch and LED indicator for ease of operation.
- ▶ One Adapter is included. Simple to use and ideal for stage and studio use.

Model	MI-BPS
Power Supply	48V phantom power supply
Input	Standard balance input
Output	Standard balance output
Input Power	300mA
Dimension	160*105*44mm
Output Voltage	DC 48V
Rated Power	≤5W
Output Noise	≤1.8μV

## Wired Microphone

### Push-to-Talk Microphone



#### 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.

Model	PTT MIC2
Type	Dynamic
Sensitivity	$-72 \pm 3\text{dB}$ (1K Hz)
Impedance	500 $\Omega$
Frequency response	100~6000Hz
Cable extended length	2000mm
Enclosure material	ABS plastic, rough, black
Trademark	Aluminum plate
Net weight	20g

### Dynamic Microphone



#### Features:

- ▶ Frequency response optimized for announcing, narration, and paging applications
- ▶ Cardioid pickup pattern symmetrical about axis
- ▶ Neodymium magnet for high signal-to-noise ratio
- ▶ Shock-mounted cartridge for quiet operation and low stand/handling noise
- ▶ Tough diecast locking grille and handle
- ▶ Built-in push-to-talk button controls microphone circuit and relay or control circuit

Model	MI-120D
Type of Adapter	Dynamic
Directivity	Ultra-cardioid
Frequency response	100Hz~14KHz
Sensitivity	00-54dB $\pm 3\text{dB}$ [0dB=1V/Pa 1KHz]
Output impedance	600 $\Omega \pm 30\%$ at 1KHz~14KHz
Cable	Entwining structure

### Gooseneck Dynamic Microphone



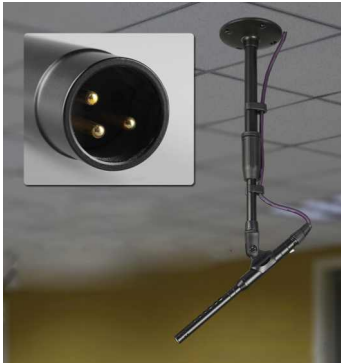
#### Features:

- ▶ Switch mode: press to open, release to close. Especially suitable for units that frequently use switches.
- ▶ Gooseneck dynamic microphone.
- ▶ Easy to install and use, stable and durable, suitable for installation in desktops and walls for homes, offices, cars, and trains.

Model	MI-121D
Transmission method	Wired microphone
Transduction mode	Dynamic
Directionality	Unidirectional
Frequency response	90Hz~130KHz
Sensitivity	$-71 \pm 3\text{dB}$
Output impedance	20K $\Omega$
Tube length	508mm

## Wired Microphone

### Overhead Microphone



Overhead retractable bar is optional to order in silver and black color:

Silver 20-40CM: SLS-40  
Silver 30-60CM: SLS-60  
Silver 60-120CM: SLS-120  
Black 20-40CM: BLB-40  
Black 30-60CM: BLB-60  
Black 60-120CM: BLB-120



Model	HG MIC1
Type	Condenser microphone
Directivity	Unidirectional
Frequency Response	80Hz-18KHz
Sensitivity	-38dB
Supply voltage	48V phantom
Output Impedance	130 Ω
SNR	≥65dB
Diameter	20*220mm
Output Port	XLR Male
Output	Balance
Weight	70g

### Overhead Dual Capsule Microphone



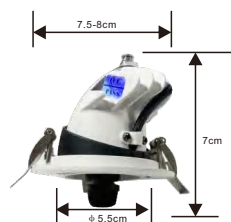
Model	HG MIC2
Components	fixed charging backplane, permanent polarity condenser microphone
Directivity	Hyper cardioid
Frequency response	20-20000Hz
High-pass filtering	80Hz, 12dB/octave
Open circuit sensitivity	-29dB (35.5 mV) re 1v at 1 pa
Impedance	200 Ω
Max. input SPL	141dB SPL, 1kHz at 1% T.H.D.
Dynamic range	128dB, 1kHz at Max SPL
SNR	81dB-A, 1kHz at 1 Pa
Voltage	48 V
Current	2 mA

### Overhead Ceiling Installed Microphone



#### Features:

- ▶ Overhead Ceiling Installation
- ▶ High Sensitivity
- ▶ Strong Directionality
- ▶ Fan-Shaped Directionality



Model	HG MIC3
Directionality	Supercardioid
Frequency Response	40Hz~18KHz
Sensitivity	-40dB(79mV) (1V, 1Pa)
Impedance	200ohm
Maximum Input SPL	125dB, 1kHz (1% T.H.D)
Dynamic Range	100 dB, 1kHz (Max. SPL)
SNR	70dB 1kHz (1Pa)
Phantom Power	11~52V
Net Weight	210g
Dimensions	Refer to the diagram
Mounting Hole Size	φ 75-80mm
Output Interface	Naked wire
(SPL-2 quick connector provided as standard)	

### Directional Condenser Microphone



Model	HG MIC4
Microphone Type	Back-electret condenser
Power Supply	1x AA battery or phantom power
Minimum Operating Voltage	1.15V
Battery Life	Up to 2000 hours (alkaline)
Current Consumption	Less than 0.5mA
Output Connector	XLR3-12C
Material	Anodized aluminum
Dimensions	Diameter 23.3mm, Length 283mm
Net Weight	40g (without accessories)
Frequency Response	100Hz - 15kHz
Directional Pattern	Cardioid (close range) / Super cardioid (long range)
Output Impedance	200 Ω ±10%
Sensitivity	14mV/Pa at 1kHz
Signal-to-Noise Ratio	Greater than 72dB
Self-Noise	Less than 22dB
Maximum Sound Pressure Level	125dB
Operating Temperature	0° C to 60° C



## Dual-Channel UHF Wireless Microphone

### Description

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



**WM-88U Standard UHF with 2 wireless microphones**



Model	WM-88U
Channel	2Ch(100 channel optional)
Carrier Frequency	UHF600-900MHz
Frequency Steadying	$\pm 0.005\%$
Modulation Mode	UHF
Maximum Deviation	$\pm 20\text{KHz}$
Audio Frequency Response	40Hz-20KHz
S/N Ratio	>80dB
Audio Dynamic Range	>80dB
T.H.D.	<0.2%
Cover Range	80M
Size	21x18x4.4cm
Operating Temperature	-10°C-50°C

## Single-Channel UHF Wireless Microphone

### Description

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



**Optional Belt Receiver 88BP**

Model	WM-88U1
Channel	1 Ch(100 channel optional)
Carrier Frequency	UHF600-900MHz
Frequency Steadying	$\pm 0.005\%$
Modulation Mode	UHF
Maximum Deviation	$\pm 20\text{KHz}$
Audio Frequency Response	40Hz-20KHz
S/N Ratio	>80dB
Audio Dynamic Range	>80dB
T.H.D.	<0.2%
Cover Range	80M
Size	21x18x4.4cm
Operating Temperature	-10°C-50°C

**Dual-Channel UHF Wireless Microphone**
**Features:**

- ▶ UHF wireless microphone is less likely to subject to interference than VHF microphone, transmitting more stable signal.
- ▶ Up to 200 frequencies, several sets of microphones can be used simultaneously without worrying about interferences
- ▶ With auto pairing technology
- ▶ With high-end liquid crystal display
- ▶ Ultra-long operating range. The UHF Handheld wireless microphone has a wireless range of up to 100 meters.
- ▶ Digital ID identification technology, without worrying about interferences
- ▶ Unique digital encryption technology, preventing off-site surveillance or eavesdropping
- ▶ Built-in feedback suppressor, one-key eliminating howling


**WM-2870H**

**WM-2870B**

**WM-2870D**

Model	WM-2870H/WM-2870B/WM-2870D
<b>Receiver</b>	
Oscillation mode	PLL frequency synthesis
Frequency range	UHF499MHz-900MHz
Frequency stability	±0.001%
Modulation mode	FM
SNR	>60dB
Distortion	<0.5%@1KHz
Receiver sensitivity	1.2/UV @S/N=12dB
Power supply	DC 12V
Audio output	Independent 0-2V2/Hybrid 0-2V
<b>Transmitter</b>	
Power supply	DC 3V(1.5V AA×2)
Microphone power consumption	110mA
Carrier frequency	UHF499MHz-937MHz
Frequency stability	±0.001%
Max frequency offset	±70KHz
SNR	>60dB
Adjacent frequency interference ratio	>80dB
Dynamic range	≥100dB
Type	Dynamic
Polarity mode	Cardioid
Frequency response	60Hz-17KHz
Microphone sensitivity	-42±2dB@1KHz

## 4-Channel UHF Wireless Microphone

### Features:

- ▶ UHF wireless microphone is less likely to subject to interference than VHF microphone, transmitting more stable signal.
- ▶ Up to 200 frequencies, several sets of microphones can be used simultaneously without worrying about interferences
- ▶ With auto pairing technology
- ▶ With high-end liquid crystal display
- ▶ Ultra-long operating range. The UHF Handheld wireless microphone has a wireless range of up to 100 meters.
- ▶ Digital ID identification technology, without worrying about interferences
- ▶ Unique digital encryption technology, preventing off-site surveillance or eavesdropping
- ▶ Built-in feedback suppressor, one-key eliminating howling



**MPRO-44H**



**MPRO-44B**



**MPRO-44D**

Model	MPRO-44H/MPRO-44B/MPRO-44D
<b>Receiver</b>	
Oscillation mode	PLL frequency synthesis
Frequency range	UHF499MHz-900MHz
Frequency stability	±0.001%
Modulation mode	FM
SNR	>60dB
Distortion	<0.5%@1KHz
Receiver sensitivity	1.2/UV @S/N=12dB
Power supply	DC 12V
Audio output	Independent 0-2V2/Hybrid 0-2V
<b>Transmitter</b>	
Power supply	DC 3V(1.5V AA×3)
Microphone power consumption	110mA
Carrier frequency	UHF499MHz-937MHz
Frequency stability	±0.001%
Max frequency offset	±70KHz
SNR	>60dB
Adjacent Channel Interference Ratio	>80dB
Dynamic range	≥100dB
Microphone capsule	Dynamic
Directivity	Cardioid
Frequency response	60Hz-17KHz
Microphone sensitivity	-42±2dB@1KHz

## Components

### Description

#### 1. MA-2150V2+/MA-4150V2+ 2-CH/4-CH Class D Amplifier

Engineered with state-of-the-art DSP settings, our amplifiers deliver unparalleled performance, ensuring crystal-clear sound reproduction and optimal control over audio dynamics.

#### 2. HG MIC2 Overhead Dual Capsule Microphone

Perfectly suited for speech reproduction, our overhead microphone boasts dual capsules for enhanced clarity and precision, capturing every nuance with exceptional fidelity. Whether addressing a crowded conference room or conducting a lecture in a classroom, this microphone ensures your voice is heard with utmost clarity.

#### 3. WP-660LW 6.5-inch 60W High Fidelity Speaker

Designed for versatility, our high-fidelity speaker caters to diverse audio needs. With superior sound quality and robust construction, this speaker delivers immersive audio experiences for both music and speech, making it an ideal choice for conferences, classrooms, and various professional settings.

#### 4. LA-100LW Ferrite Unit Array Acoustic Column Speaker

Designed for small and medium-sized video conference rooms, digital courts, conference centers, lecture halls, other language-based sound reinforcement systems, and background music systems for various architectural spaces such as churches, museums, transportation hubs, and public areas in squares. This model solves a typical problem that the column speaker of the is too large to put on the wall, and it also looks not beautiful and tidy.

Experience unparalleled audio performance and reliability with our All-in-One Conference & Classroom Amplification Kit. Elevate your presentations, lectures, and events with pristine sound quality and unparalleled clarity.

**Classroom Kit:** DSP amplifier+Overhead microphone+ WP-660LW wall speaker\*2

**Conference Kit:** DSP amplifier+Overhead microphone+ LA-100LW column speaker\*2



### Model

#### Wall Speaker WP-660LW

Rated Power	60W@8 ohm
SPL( 1W/1M)	89dB
Max SPL@ 1M	107dB
Freq. Response	60Hz~18KHz
Speakers	1" x1 (TREBLE) 6"x1(BASS)

#### Column Speaker LA-100LW

Rated power	120W@8ohm
Maximum SPL	123dB
Frequency response	150Hz~14kHz, -6dB/ 80Hz~20kHz, -10dB
Diffusion angle (-6dB)	vertical >20° , horizontal >120°
Speaker driver	4x3" Ferrite

#### Overhead Microphone HG MIC2

Directivity	Hyper cardioid
Impedance	200Ω
Max. input SPL	141dB SPL, 1kHz at 1% T.H.D.
Voltage	48 V



## All-In-One Digital Amplifier with DSP

### Description

MA-2150V2+/MA-4150V2+ DSP Amplifier represents a breakthrough in audio technology, seamlessly integrating powerful amplification with advanced digital signal processing capabilities. With 16 built-in presets, each customizable to meet the specific requirements of users, this amplifier offers unparalleled flexibility and control over audio performance.

### Features:

- **Flexible Configuration:** MA-2150V2+/MA-4150V2+ enables configuration and control of DSP hardware, empowering users to tailor settings to their exact specifications.
- **Versatile Presets:** Featuring 16 presets, meticulously crafted to cater to diverse audio environments, ensuring optimal performance in any scenario.
- **Comprehensive DSP Functionality:** As a fully functional DSP amplifier, it allows for the editing of processing modules, parameter adjustments, and peripheral accessory settings, including RS232, RS485, and drag-and-drop panel configuration.
- **User-Friendly Operation:** Featuring an intuitive drag-and-drop panel configuration, it ensures hassle-free operation, even for novice users.



Model	MA-2150V2+	MA-4150V2+
Output Power	2x150W@8Ω bridged 300W@8Ω	4x150W@8Ω bridged 300W@8Ω
Processor	ADI SHARC 21489	
Sample Rate/Quantization Bits	48K/24bit	
Input Gain	0/6/12/18/24/30/36/42/48dBu	
Phantom Power	+48V/10mA max	
Frequency Response	20~20KHz±0.5dB	
Maximum Level	+18dBu	
THD+N	<-95dB @17dBu	
Input/ Output Dynamic Range	113dB	
Channel Isolation @1kHz	108dB	
Input Impedance (balanced connection)	5.4KΩ	
Output Impedance (balanced connection)	600Ω	
Input Sensitivity Ratio	2V	
Frequency Response	20Hz-20kHz(±0.5dB)@1W,8Ω	
SNR	>80dB(20Hz-20kHz, A-weighted)	
Crosstalk Isolation	80dB@1kHz	
THD+N	< 0.08% from 0.1W to 1/2 power (typically <0.05%)	
DIM100	< 0.2% from 0.1W to 1/2 power (typically <0.05%)	
Input Impedance	4.5kΩ balanced	
Operating Power	AC220V 5Hz-60Hz	
Conversion Ratio	50V/μs@8Ω, input filter bypassed	
Damping Coefficient	>500@1KHz	
Product Size(W*D*H)	482 x 260 x 45mm	
Net Weight	6KG	

## LC-300 Conference System Discussion Version

### ► Description

The innovative design makes this LC 300 series more than just another conference system. With ECM capsule, intelligent automatic mixing technology, integrated acoustic and mechanical system, the conference system is designed with the latest digital technology in accordance with IEC914 and ISO standards. It's a highly effective providing turnkey solution with natural, feedback-free audio performance whatever the environment.



LC-300C  
CHAIRMAN UNIT



LC-300D  
DELEGATE UNIT



LC-300M System Main Unit

### Features:

- Main unit control up to 250pcs and power up to 60pcs microphones
- Equipment with best noise cancellation technology
- PC program control and manual control
- Chairman with Priority to mute delegates
- 3 groups of audio output
- Active microphone mode from 1 to 9
- Digital acoustic feedback suppression
- Choice of 4 conference modes set with PC  
1, Open or auto; 2, FIFO or overridden;  
3, Chairman only; 4, Limite
- 8 Pin cable provides secure and reliable communication
- Versatile for small to medium conference application

## LC-800 Conference System Discussion Version

### ► Description

The innovative design makes this LC 800 series more than just another conference system. With ECM capsule, intelligent automatic mixing technology, integrated acoustic and mechanical system, the conference system is designed with the latest digital technology in accordance with IEC914 and ISO standards. It's a highly effective providing turnkey solution with natural, feedback-free audio performance whatever the environment.



LC-800C  
CHAIRMAN UNIT



LC-800D  
DELEGATE UNIT



LC-800M Main Unit

### Features:

- Main unit power up to 50pcs microphones
- Equipment with best noise cancellation technology
- Main unit equipped with earphone monitoring output
- Chairman with Priority to mute delegates
- Build in loudspeaker in both chairman and delegates units
- Headphone jack with volume control in both chairman and Delegate unit to listen to the conference
- Active microphone mode from 1 to 4
- Digital acoustic feedback suppression
- 8 Pin cable provides secure and reliable communication
- Versatile for small to medium conference application

**UC-200 Wireless Conference System**


UC-200D Delegate Unit



UC-200C Chairman Unit



UC-200M Main Control Unit



UC-200CG Charger

**Discriptions:**

With UHF FM modulation technology, This UC-200 wireless conference system is designed with high fidelity capsule to have the best clarity to reflect the original sound yet cancelling all the feedbacks. It is a fully digital system with big LCD screen to show the status, very low energy consuming, continously working for 8 hours and standby for 20 hours. It is a highly effective providing turnkey solution with natural, feedback-free audio performance whatever the environment.

**Features:**

- ▶ Main unit control up to 256pcs and working at 500 to 950 Mhz frequency
- ▶ Equipment with best noise cancellation technology
- ▶ With output to record the meeting
- ▶ Chairman with Priority to mute delegates
- ▶ Digital acoustic feedback suppression
- ▶ With delegate speaking 1-2-3-4 mode selection
- ▶ Up to 5 microphones working at the same time, 1 chairman and 4 delegates

**Wireless Conference Video Processor**
**Features**

- ▶ Built-in HDMI high-definition switching matrix (4 inputs, 1 output), compatible with high-definition PTZ cameras
- ▶ Supports tracking control of up to 512 camera positions per unit
- ▶ Compatible with two high-speed PTZ protocols (Pelco-D at 9600 baud rate, VISCA at 9600 baud rate)
- ▶ USB computer control interface allows the central processor to communicate with external devices such as computers or video switching matrices via USB port, featuring linkage control functionality. High-speed PTZ tracking positions the microphone to the last speaker activated. When the last activated microphone is deactivated, the high-speed PTZ tracking returns to the previous tracking camera position. When all speakers are inactive, the camera automatically returns to the standby position
- ▶ DC12V power adapter.



## UC-880 Wireless Conference System with Video Tracing Function

### Description

The UC-880 system is a wireless digital conferencing system designed to provide seamless communication and control during meetings. It supports up to 200 units (1 chairman and 199 delegate units) and multiple systems can operate simultaneously by using different frequency channels. This system is ideal for environments where efficient communication and ease of control are crucial, such as corporate boardrooms, government meetings, and large conferences.



UC-880C Chairman Unit

UC-880D Delegate Unit



UC-890C Chairman Unit

UC-890D Delegate Unit

### Features

- ▶ This system does not require any additional equipment, and video tracking can be set directly through the host menu.
- ▶ The system host and unit LCD display are more intuitive and user-friendly.
- ▶ Support CAM-200 camera protocols, and the system can connect multiple cameras.
- ▶ Each system can control up to 1 chairman and 199 units for simultaneous use. In the same environment, multiple wireless conference systems can be used simultaneously using different frequency channels. Each system can use up to 1 chairman and 3 representatives.
- ▶ The host supports manual addressing.
- ▶ System speaking mode: first-in-first-out, last-in-first-out, restricted mode, chairman mode.
- ▶ The chairman has priority function control, which can be used to control the right to speak and control the atmosphere of the meeting.
- ▶ The unit has a built-in large-capacity lithium polymer battery, which can be used continuously for up to 8 hours and can be used for 15 hours in standby.



### System Specifications

<b>Model</b>	<b>UC-880M</b>
Carrier Frequency Band	UHF600-690MHz
Modulation	FM
Effective Working Distance	60 meter
Oscillation Mode	PLL phase locked frequency synthesis
Sensitivity	When the deviation is equal to 25KHz and the input is 6dBv, S/N>60dB
Bandwidth	30MHz
Maximum Deviation	±45KHz
SNR	>105dB
T.H.D	<0.7% @1KHz
Frequency Response	45HZ-18KHZ (±1dB)
Powered by	AC110V-220V
Net Weight	3.6Kg
Product Size	485X265X95MM
<b>Model</b>	<b>UC-880C/UC-880D/UC-890C/UC-890D</b>
Output Socket	XLR parallel and 6.3 non-parallel sockets
Carrier Frequency Band	UHF600-690MHz
Oscillation Mode	PLL phase locked frequency synthesis
Harmonic Radiation	<-65dBm
Bandwidth	30MHz
Maximum Deviation	±45KHz
Sound Head	Condenser, unidirectional
RF Power Output	15MW
Battery	3.7V lithium battery/1.5V battery
Current Consumption	<150mA
Continuous Working Time	About 10 hours



**Conference System with Discussion and Record Function**

**Features:**

- ▶ Built-in power supply, with an output power of 400W.
- ▶ Main unit control up to 250pcs and power up to 64pcs microphones. Equipped with an audio output interface.
- ▶ Featuring a BAL interface for easy connection to various effects processors.
- ▶ Built-in tone processing unit for adjusting bass and treble.
- ▶ Independent volume control for the system.
- ▶ Includes one AUX input with independent volume control.
- ▶ Has a set of wired microphone input interfaces with independent volume adjustment.
- ▶ Comes with a USB recording and playback module, enabling USB recording and playback functions.
- ▶ Built-in 1W monitoring speaker with independent volume control.
- ▶ High-fidelity sound quality and automatic feedback suppression function.
- ▶ Optional automatic shutdown function for delegate units.
- ▶ The panel has three function setting buttons: "MODE," "SET," "ENTER."
- ▶ Supports various conference modes such as free discussion, first in, first out, and restricted speaking.
- ▶ Can provide power and data communication ports for a video central processor.
- ▶ Can be placed flat on a tabletop or mounted in a 19-inch standard rack cabinet.


**LC-300C  
CHAIRMAN UNIT**
**LC-300D  
DELEGATE UNIT**

**LR-660C  
CHAIRMAN UNIT**
**LR-660D  
DELEGATE UNIT**

**LR-670C  
CHAIRMAN UNIT**
**LR-670D  
DELEGATE UNIT**

Model	LR-660M (Main unit)	LR-660D/LR-660C (Microphone unit)	LR-670D/LR-670C (Microphone unit)
Audio Output	LINE OUT (unbalance), REC OUT (unbalance) BAL OUT	/	/
Audio Input	MIC IN (unbalance), AUX IN (unbalance)	/	/
Output Impedance	<1KΩ	/	/
Effects Processor Interface	EFX IN/OUT (Connect the frequency shifter)	/	/
Voltage	AC220V	DC24V (Supply by 8PIN cable)	DC24V (Supply by 8PIN cable)
Power consumption	400W	2W	2W
T.H.D.	0.1%@1KHz	<0.05%	<0.05%
Product Dimension	480X330X90mm	205X117X55mm / MIC pipe 420mm	143X110X50mm / MIC pipe 240mm
SNR	>96db	>75db	>75db
Control port	RJ45 interface	/	/
Sensitivity	-56dB	-44dB ±2dB	-44dB ±2dB
Frequency response	50Hz-16KHz	40Hz-16KHz	40Hz-16KHz
Color	Grey	Grey	Grey

## DC-800 Series Conference System

### Features:

- ▶ Main unit control up to 2550pcs and power up to 100pcs microphones
- ▶ With built-in DSP to avoid feedback and distortion.
- ▶ With digital volume control function
- ▶ Chairman with Priority to mute delegates
- ▶ External aux input and record output
- ▶ Individual volume control for the microphone units
- ▶ Microphone with headwear mic input

### Ordering Code:

**DC-800M:** Digital Conference Main Unit with discussion  
**DC-800D:** Digital Conference Delegate Unit with discussion  
**DC-800C:** Digital Conference Chairman Unit with discussion  
**DC-800MV:** Digital Conference Main Unit with discussion and camera Tracing  
**DC-800DV:** Digital Conference Delegate Unit with discussion and camera Tracing  
**DC-800CV:** Digital Conference Chairman Unit with discussion and camera Tracing  
**DC-800MS:** Digital Conference Main Unit with discussion, Voting, sign-in, and camera tracing function  
**DC-800MSF:** Voting software for DC-800MS  
**DC-800DS:** Digital Conference Delegate Unit with discussion, Voting, sign-in, and camera tracing function  
**DC-800CS:** Digital Conference Chairman Unit with discussion, Voting, sign-in, and camera tracing function  
**DC-800CSC:** Digital Conference System secretary microphone

### Full functional chairman / delegate unit support voting and sign-in



DC-800CS Chairman Unit      DC-800DS Delegate Unit

### Basic functional chairman and delegate units



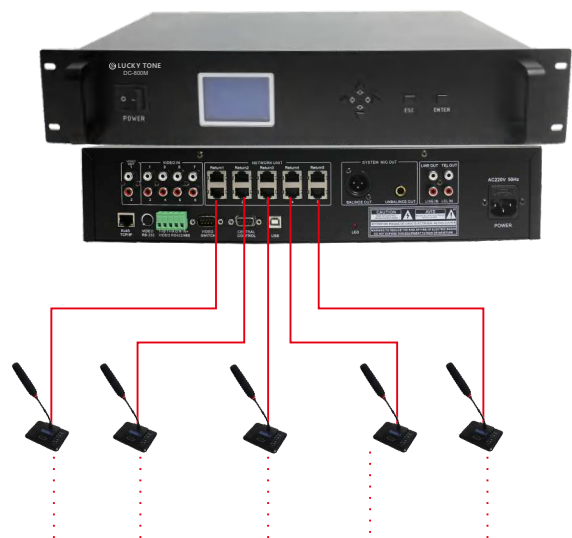
DC-800C/DC-800CV  
Chairman Unit

DC-800D/DC-800DV  
Delegate Unit

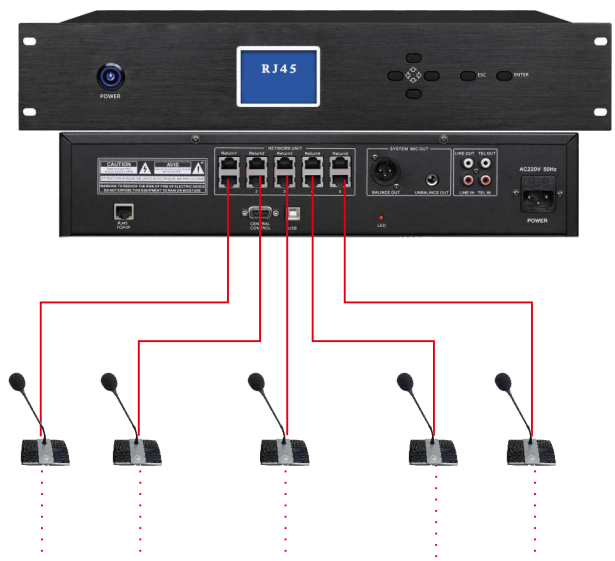
### Discriptions:

This DC-800 discussion fully digital conference system is designed with high fidelity capsule to have the best clarity to reflect the original sound yet cancelling all the feedbacks. It processes the audio signals with the right level of amplification and allocation to suit any medium to small events. Chairman unit has the priority to mute the delegates with pre-settings. It is a highly effective providing turnkey solution with natural, feedback-free audio performance whatever the environment.

DC-800MV/DC-800MS Main Control Unit



DC-800M Main Control Unit



## High-Definition PTZ Camera

### Features

- ▶ Outstanding performance and various interfaces
- ▶ Adopt advanced ISP processing technology and algorithms ensuring vivid and lifelike image effects
- ▶ Uniform brightness, strong color hierarchy, high clarity, and good color reproduction
- ▶ Supports H.265/H.264 encoding, making the picture smoother and clearer even under low bandwidth conditions



### Model

### CAM-200

<b>Camera, Lens</b>	
Image Sensor	1/2.8 inch high-quality 5-megapixel CMOS sensor
Output Effective Pixels	2.07 million, 16:9
Video Signal	1080P60/50/30/25; 1080i60/50; 720P60/50/30/25
Lens Optical Zoom	20x optical zoom f=4.7~94mm
Viewing Angle	2.9° (narrow angle) to 55.4° (wide angle)
Aperture Coefficient	F1.6 ~ F3.5
Digital Zoom	X10
Minimum Illumination	0.5Lux(F1.8, AGC ON)
Digital Noise Reduction	2D&3D digital noise reduction
White Balance	Manual/Auto/One-touch/White Balance/3000K/4000K/5000K/6500K
Focus	Auto/Manual
Aperture	Auto/Manual
Electronic Shutter	Auto/Manual
Backlight Compensation	On/Off
Wide Dynamic Range	Off/Dynamic Level Adjustment
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, Black and White Mode
SNR	>55dB
<b>Input/Output Interfaces and Supported Protocols</b>	
Video Interface	DVI (convertible to HDMI), 3G-SDI
Image Stream	Dual-stream output
Video Compression Formats	H.265, H.264
Control Signal Interface	RS-232, with loop-through RS232 output
Control Protocols	VISCA/Pelco-D/Pelco-P; Baud Rate: 115200/9600/4800/2400bps
Audio Input Interface	Dual-channel 3.5mm line input
Audio Compression Formats	AAC, MP3, PCM
Network Interface	100M Ethernet port (10/100BASE-TX), 5G WiFi (optional), supports network VISCA control protocol
Network Protocols	RTSP, RTMP, ONVIF, GB/T28181
Power Interface	HEC3800 power socket (DC12V)
<b>PTZ</b>	
Horizontal Rotation	-170° ~+170°
Vertical Rotation	-30° ~+90°
Horizontal Control Speed	0.1~100° /sec
Vertical Control Speed	0.1~45° /sec
Preset Speed	Horizontal: 100° /sec, Vertical: 45° /sec
Number of Presets	Up to 255 presets can be set by the user (10 presets via remote control)
<b>Others</b>	
Power Adapter	Input AC110V~AC220V, Output DC12V/1.5A
Input Voltage	DC12V±10%
Input Current	1A (max)
Power Consumption	12W (max)
Dimensions (W x H x D)	258mm*172mm*169mm
Weight (approx.)	1.54kg
Operating Environment	Indoor
Remote Maintenance (Network Interface)	Remote upgrade, remote reboot, remote reset
Included Accessories	12V/1.5A power adapter, RS232 control cable, remote control, user manual, warranty card

## Frequency Shifter

### Description

S3.0 frequency shifter is a digital feedback suppression system device specifically designed for conferences, lectures, teaching, and stage use. This device is equipped with microphone balanced inputs, as well as system connection ports and dual-channel input and output interfaces.

### Features

- ▶ Effectively suppresses feedback
- ▶ Boosts volume
- ▶ Ensures high-quality transmission of speech, with high fidelity and clear sound. It can greatly reduce feedback even in poor environmental conditions
- ▶ Effectively prevents audio equipment and speakers from burning out
- ▶ Switch for microphone and line input frequency shift effect selection
- ▶ Local speaker connection port (EFX) for independent effects on the conference system



Model	S3.0
Power Supply	AC~220V-230V,50/60Hz
Frequency Shift Range	5Hz±1Hz
Voice Gain Boost	5-14dB
Line Input Impedance	≥5KΩ
Line Output Impedance	≤600Ω
Frequency Response	Non-shifted state: 20Hz-20KHz Shifted state: 150Hz-15KHz
Microphone Connection Compatibility	Non-phantom powered microphone
Microphone Connection Method	1*XLR female socket
Weight	2.41KG
Dimensions(W x H x D)	1U Chassis 420*205*44mm
External Input Connections	1*XLR male microphone, RCA mono line input, effects mono
Output Connections	XLR balanced, RCA mono line output, effects mono
Functions	Automatic frequency shifting on startup, electronic switch toggling
Power	12W
Switch/Indicator	Toggle switch, panel power indicator light, frequency shift indicator



## System Description

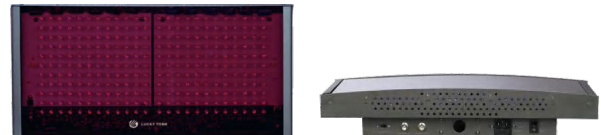
This IR interpretation system is designed for wireless distribution of audio signals for international conference where multi language is required. During the conference, the interpreters simultaneously translate the speaker's language as required, and the participants can select the language according to their choices, and listen via the earphones. the system provides language channels of 6 for real time interpretation. Thus it is suitable for medium to large size conference applications.

### IR-6M Digital Main Unit



- ▶ Versatile Digital Wireless IR system
- ▶ It confirms to IEC61603 part 7 standards
- ▶ Automatic level control function (ALC).
- ▶ 2-8Mhz signal prevent any disturb under daylight lamp
- ▶ Easy to operate and save in project cost
- ▶ With the most advanced technology
- ▶ Elegant configuration in accordance to ergonomics
- ▶ High security levels prevent external interference

### IR-6R Radiator



- ▶ Versatile Digital Wireless IR system
- ▶ It confirms to IEC61603 part 7 standards
- ▶ Automatic level control function (ALC).
- ▶ 2-8Mhz signal prevent any disturb under daylight lamp
- ▶ Easy to operate and save in project cost
- ▶ With the most advanced technology
- ▶ Elegant configuration in accordance to ergonomics
- ▶ High security levels prevent external interference

### IR-6I Interpreter Unit



- ▶ It supports 6 channel interpretation
- ▶ Level control of voice to prevent feedback
- ▶ Cough cancellation function
- ▶ Equipped with SLOW key to hint the speaker if speak too fast
- ▶ RELAY key to listen to other channel for translated language, If the interpreter does not understand the original language
- ▶ The LCD can display both input and output channels

### IR-6D Delegate Receiver Unit



- ▶ Small, elegant and pocket size
- ▶ Support up to 6 different languages
- ▶ Power on/off switch and volume control
- ▶ Powered by rechargeable batteries and charging box
- ▶ LED screen displays with battery and status

## Accessories

- ▶ IR-6C Charging box for 24pcs delegate receiver unit



**IR-24C**  
Charging Box

## Digital 8-CH IR Interpretation System Main Unit

The digital infrared language distribution system is a system that wirelessly transmits audio signals through infrared radiation. It can be used in simultaneous interpretation systems for international conferences where multiple languages are required. In order to ensure that all participants can understand the discussion, interpreters provide simultaneous translations of the speaker's remarks. These simultaneous translations are broadcast to various corners of the conference venue, and delegates can select their respective languages and listen through headphones. The system can also be used for music transmission (mono and multi-channel).

### Features:

- Fully digital design improves audio quality and anti-interference capabilities.
- Supports 4, 8, 12, and 16 audio channels.
- Operates within the 2-8 MHz carrier frequency range.
- Vertical and horizontal expansion designs for wider signal coverage.
- Hand-in-hand radiation mode allows easy multi-room use.
- Cable transmission delay compensation ensures accurate signal overlay.
- Infrared signals are contained, ensuring meeting privacy.
- Elegant exterior design suits various environments.
- Management can monitor the system through the host.



Model	IR-8R
Modulation Frequency	Carrier 0 to 5: 2 MHz to 6 MHz, Carrier 6 and 7: Up to 8 MHz
Protocol and Modulation	DQPSK
Audio Frequency Response	20 Hz to 10 kHz (-3 dB)
Total Harmonic Distortion at 1 kHz	<0.05%
Crosstalk Attenuation at 1 kHz	> 80 dB
Dynamic Range	> 80 dB
Weighted Signal-to-Noise Ratio	> 80 dB(A)
Power Consumption	100 W
Unbalanced Audio Input	Rated: +3 dBV, Maximum: +6 dBV (± 6 dB)
HF (High-Frequency) Output	1 Vpp, 6 VDC, 50 Ohms
Interpreter Console Interface	12P-DIN
Audio Input	Unbalanced RCA x 16
Audio Output	Unbalanced RCA x 16
RF (Radio Frequency) Output	RF Output BNC Connector x 4
Power Supply	AC110V-220V~ 50Hz-60Hz
Dimensions	485 × 355 × 90mm
Net Weight	8kg

### Radiator



Model	IR-8M
HF Input	Rated 1 Vpp, Min. 10 mVpp
Half-Power Angle	± 22°
Total Peak Optical Power	24 W/sr
Standby Power Consumption	25W
Power Consumption	30W
Radiation Distance	<30M/16CH
Power Supply	AC110V-220V~ 50Hz-60Hz
Dimensions	445 × 235 × 113mm
Net Weight	4.2kg

### 24 Slot Charger Unit



Model	IR-8C
Power Supply	AC110V-220V
Power	66W
Number of Charging Slots	24
Maximum Unit Charging Current	220mA
Charging Time	Approximately 2-2.5 hours
Status Indicators	Red light on - Charging in progress; Green light on - Charging completed
Dimensions	630 × 370 × 290mm
Net Weight	10.5kg (excluding the battery)

### Interpreter Unit



Model	IR-8I
Frequency Response	50Hz-20KHz
Sensitivity	-42dB ± 2dB
Interface	12P-DIN
Microphone Length	410mm
Operating Temperature	0°C-40°C
Dimensions	300 × 150 × 70mm
Net Weight	1.7kg

### Interpreter Booth



Model	IR-32BOOT
Product Specifications	1.7*1.6*2.0m
Front Window Size	1100*860mm(H)
Side Window Size	680*860mm(H)
Soundproof Window Material	Resin Glass (Glass Thickness 6mm)
Ventilation System	2 Sets of Soundproof Ventilation Systems
Workbench	1140*730*500*mm
Cable Channel	14x5cm(H)

### Receiver Unit



Model	IR-8D
Receiver Sensitivity	-101dBm
Sensitivity Attenuation	± 50°
Half-Power Angle	
Headphone Output Level at 2.4 V	450 mVrms (Maximum Speaking Volume, 32 Ohm Headphones)
Headphone Output Frequency Range	20 Hz - 10 kHz
Headphone Output Impedance	32ohm
Maximum Signal-to-Noise Ratio	78 dB(A)
Power Supply Voltage	1.8 to 3.6 V, Rated 2.4 V
Power Consumption (at 2.4 V battery voltage)	60 mA (Maximum Speaking Volume, 32 Ohm Headphones)
Dimensions	157 × 49 × 25mm
Net Weight	233g

### Booster Unit for Interpreter Unit



Model	IR-8BT
Power Consumption	1.5W
Length of Relay Cable	10m
Operating Temperature	0°C-40°C
Dimensions	120 × 40 × 50mm
Net Weight	211g

## System Description

This wireless tour guide system applies the stable and reliable wireless technology to analyze the difference available frequencies and picks the most suitable one with least disturbance for transition of audio signal. It digitizes the audio signal to process and modulation before transmit. Receiver will scan the signal via identification verifying, read the transmitter frequency, process and signal and convert to the analog original sound. It is a economic yet power full system suitable for various of applications.

### GD-100T VHF Transmitter



- Stylish design
- Digital, DSP technology, and with radio function
- Totally 44 sets can be used in the same place

### GD-101R VHF Receiver



- Stylish design and small in size
- RFID software, radio frequency identification to prevent interface
- Unlimited pcs using at the same place
- Standard grey, optional in Red and Blue color

### GD-100TU UHF Transmitter



- Stylish design
- Digital, DSP technology, and with radio function
- Totally 80 sets can be used in the same place

### GD-101RU UHF Receiver



- Stylish design and small in size
- RFID software, radio frequency identification to prevent interface
- Unlimited pcs using at the same place
- Standard Yellow, optional in Red and Blue color

## GD Accessories



**GD-102C**  
Charging box for 30 units  
of wireless IR receiver



**GD-103M**(Standar)  
Head worn Microphone  
for transmitter



**GD-104M**(Standar)  
Clip Type Microphone  
for transmitter



**GD-Ear**(Standar)  
Single earphone  
for receiver



**GD-EarPro**(Optional)  
Conduction earphone  
for receiver

**System Specifications**
**VHF RECEIVER GD-101R**

Frequency Ranges	VHF216~230MHz
Frequency Channels	44
Adjustable ID	99
Stabalized Tye	PLL
Frequency Deviation	±75K
S/N Ratio	55db A weighted
Receiving Sensitivity	2 μV
Frequency Response	100~15Khz
Display	LED 17*5
Operation range	30 to 80 meters
Power Supply	NiMH AA 1.2V*2
Battery Operation time	10 hours
Antenna	Headphone cable
Headphone output	5 mV
T.H.D	<0.5%
Size and Weight	105*53*22mm/55g without Bat
Temperature Range	-10 ~ 50 degree

**VHF TRANSMITTER GD-100T**

Frequency Range	VHF216~230MHz
Channels	44
Adjustable ID	99
Stabalized Type	PLL
Working Type	F3E
Frequency Deviation	±75
Transmitting Rated Power	Less than or equals to 10mV
Subharmonic	Main wave less than 40 dB
Capsule Type	Condenser
Directivity	Ultra Cardioid
Input Pressure	Less than or equals to 130dB
Frequency Response	100Hz to 15Khz
Display	OLED 17*5
Operation range	30 to 80 meters
Power Supply	NiMH AA 1.2V*2
Battery Operation time	10~15 hours
Antenna	Ground electrode
Headphone output	5 mV
T.H.D	<0.5%
Size and Weight	85*65*40mm/155g without Bat
Temperature Range	-10 ~ 50 degree

**UHF RECEIVER GD-101RU**

Frequency Ranges	UHF740~820MHz
Frequency Channels	80
Adjustable ID	80
Stabalized Tye	PLL
Frequency Deviation	±75K
S/N Ratio	60db A weighted
Receiving Sensitivity	-100dB μ
Frequency Response	100~15Khz
Display	OLED
Operation range	30 to 80 meters
Power Supply	Li-Po 3.7V 800mA
Battery Operation time	10 hours
Antenna	Microstrip
Headphone output	5 mV
T.H.D	<0.5%
Size and Weight	72*43*21mm/40g with Bat
Temperature Range	-10 ~ 60 degree

**UHF TRANSMITTER GD-100TU**

Frequency Range	UHF740~820MHz
Channels	80
Adjustable ID	80
Stabalized Type	PLL
Working Type	F3E
Frequency Deviation	±75
Transmitting Rated Power	Less than or equals to 10mV
Subharmonic	Main wave less than 45 dB
Capsule Type	Condenser
Directivity	Ultra Cardioid
Input Pressure	Less than or equals to 130dB
Frequency Response	100Hz to 15Khz
Display	OLED 17*5
Operation range	30 to 80 meters
Power Supply	NiMH AA 1.2V*2
Battery Operation time	10~15 hours
Antenna	Whip Microstrip
Headphone output	5 mV
T.H.D	<0.5%
Size and Weight	85*65*40mm/155g without Bat
Temperature Range	-10 ~ 50 degree

**GD-101R VHF Receiver**

**GD-101RU UHF Receiver**




**Volume Controllers**

- 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

**Ordering Code**


Model	Description
VB-06A	6W volume control, square type 86 x 86
VB-30A	30W volume control, square type 86 x 86
VB-60A	60W volume control, square type 86 x 86
VB-120A	120W volume control, square type 86 x 86
VB-06AT	6W volume control, square type 86 x 86, 24VDC override
VB-30AT	30W volume control, square type 86 x 86, 24VDC override
VB-60AT	60W volume control, square type 86 x 86, 24VDC override
VB-120AT	120W volume control, square type 86 x 86, 24VDC override