



## PUBLIC ADDRESS & VOICE ALARM SYSTEM PRODUCT CATALOG



## Extending leadership into acoustic excellence!

System Sensor is a global leader of fire detection and notification devices, specializing in smoke detection and notification technology. System Sensor places a premium on research and development, resulting in products that are reliable, sophisticated and designed for real-world applications. With sales, service and manufacturing facilities throughout the Americas, Europe and Asia, System Sensor's high-quality, innovative products are the most comprehensive in the industry.

The System Sensor Public Address & Voice Alarm products are manufactured by Honeywell Audiovisuals. Honeywell Audiovisuals specializes in acoustics and public address. System Sensor range manufactured by Honeywell Audiovisuals provides customers value for money public address for all occasions where sound is used for entertainment, emergency message communication or creating lifestyle environments. System Sensor Public Address also represents cutting-edge innovation, superior quality and uncompromising safety. No matter whether you are looking for extraordinary sound performance, easy installation and maintenance, cost effectiveness, best in class reliability or just one handsome looking design, System Sensor always has a product for your requirement.

With an experienced team of experts researching, developing and testing in our fully equipped anechoic rooms, our loudspeakers adopt internationally recognized industry standards to ensure the high reliability and excellent performance even in extreme conditions, such as fire. Moreover, System Sensor makes it possible for a perfect combination of appealing design, superior sound reproduction and easy installation that are in the best interest of our customers.

The System Sensor Public Address & Voice Alarm Portfolio which comprises of the Empertech Public Address products and the EVACPro Voice alarm controllers are sure to meet all your Public Address & Voice Alarm needs.



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# EVACPRO Digital Voice Alarm Controller

## SS-EVA LCP

The Local Control Panel (SS-EVALCP) is a 16 speaker circuit digital voice alarm controller which includes a digital signal processor, audio storage for pre-recorded messages, audio matrix, amplifier monitoring and control, fire alarm inputs, loudspeaker output connection terminals and audio source connection ports for auxiliary inputs.

The Local Control panel is the interface between field devices such as loudspeakers and local audio sources. The SS-EVALCP is a cost effective solution for requirements less than 16 loudspeaker circuits(zones). The unit has 16 emergency inputs and 16 loudspeaker circuits (zones).

The unit also can store and play pre recorded emergency messages to alert or evacuate various fire zones. The user-friendly Windows based SS-EVACconfig software assists the easy commissioning and diagnosis of the system.

- 16 Zone Digital Voice Alarm Controller
- EN60849 Compliant
- Monitored Emergency Push To Talk Paging Microphone
- LCD Display with scroll buttons
- Power and Fault status LED indications
- Monitor Loudspeaker
- 8 Audio source (BGM) selection switches and status indicators
- 8 Pre-recorded Message selection switches and status indicators
- 16 Fire Alarm Input Status Indicators
- 16 Speaker circuit selection switches and status indicators
- 19"4U rack mount type
- PC Interface for Program upload and system diagnostic
- Fault signal to fire alarm panel and reset signal from fire alarm panel
- Monitor and Control 16 fire alarm inputs and 16 speaker circuits



SPECIFICATIONS	SS-EVA LCP
AC Supply Voltage	AC 220V-240V 50/60Hz
AC Supply Fuse	3A
DC Supply Voltage	21 to 27.6V
Power Dissipation	<35W
Dimensions (H x W x D)	483 (W) x 175 (H) x 475 (D) mm
Weight	14.96 Kg
Temperature Range (Storage and Operating)	0°C to +50°C
Analog Audio Input (Audio1-Audio8)	330mV,10K ohms
Frequency Response	100Hz-20KHz
SS-EVALPS Audio Input	Digital Audio
PTT Microphone Input	5mV,600 ohms
System Fault Output	NC
System Reset Input	NO
Control Mode	RS-232/RS-485

## SS-EVA LPS

The Local Paging Station (SS-EVALPS) is the remote operating unit that shall connect with the SS-EVALCP using a standard CAT5 or equivalent cable up to a maximum distance of 300 meters.

The SS-EVALPS's front panel is a cloned copy of the SS-EVALCP front panel except for the Fire Alarm input status indications. The SS-EVALPS is an optional unit, which will allow the operator to make announcements, monitor and control all SS-EVALPS functions remotely, including reading the network real time data and event log.

The SS-EVALPS is equipped with a monitored gooseneck microphone along with a red colored light ring showing "ready to speak" on pressing the "MIC ON" switch.

The SS-EVALPS's front panel is equipped with power ON and fault indicators, BGM and audio source selection switches, function selection switches, LCD display with scroll up/down switches, Mode selection switch and Enter switch, all call selection switch, Reset/off switch, and Mic ON/Off switch. 16 speaker circuit (zones) selection switches with status indication is also available for easy selection of speaker circuits.

The rear side of the SS-EVALPS is equipped with a Power ON switch and a RJ45 socket for connecting to the SS-EVALCP.

- Local paging Station for SS-EVALCP
- Connected with and monitored by SS-EVALCP
- Monitored Gooseneck Paging Microphone
- LCD Display with scroll buttons
- Unit can be used to read system data and event log
- Power and Fault status LED indications
- 8 Audio source (BGM) selection switches and status indicators
- 8 Pre-recorded Message selection switches and status indicators
- 16 Speaker circuit selection switches and status indicators
- Power ON and Fault indication LED's
- Table top Installation



### SPECIFICATIONS

### SS-EVA LPS

DC Supply Voltage	21 to 27.6V (Powered from SS-EVALCP)
DC Supply Fuse	0.5A
Power Dissipation	<10W
Frequency Response	100Hz-20KHz
LPS Audio Input	Digital Audio
Microphone Input	5mV, 600 ohms
Storage temperature	0° ~ 60° C
Operating temperature	0° ~ 50° C
Humidity	0 ~ 90%
Weight	2.04 Kg
Dimensions (H x W x D)	68 (H) x 290 (W) 160 (D) mm

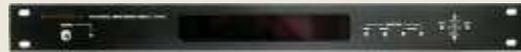
Contact for More details  
info@pravira.com

## Audio Sources

### KB-F508R

The AP-F508R is an AM/FM stereo digital tuner that provides advanced technology and convenient use for a public address background music source. Main features are:

- Station memory stores up to 60 channels
- Manual/automatic tuning
- Fast channel scan
- Stereo/mono mode selection
- Color signal level&function LCD display
- Previous and next station selection
- RCA audio output jacks
- Attractive 1U rack mount case



SPECIFICATIONS	KB-F508R
Antenna Input	75 ohms
Audio Output	Better than 500 mV, 10k ohms
Frequency Response	20 Hz - 20 kHz (+/- 3dB)
S/N Ratio	AM: less than 40dB; FM: less than 45dB
THD	Less than 0.01% at 1kHz
Frequency Range	AM: 522 kHz-1620 kHz; FM: 87mHz-108mHz
Station Memory	60 Channels
Dimensions	51(H) x 483(W) x 255(D) mm

### KB-DV

With original splendid fluorescence dynamic screen on aluminum panel, this AP-DV DVD player provides you super decoding solution and strong Disc correction function. Its main features are:

- Full functional infra-red leisurely remote controlling operation
- Support DVD, VCD, CD, HDCD, DIVX, SVCD, MPEG4, Mp3, WMA, CDR/RW format disc and auto play function
- Easy USB input and mono audio output
- With 19" rack mount bracket



SPECIFICATIONS	KB-DV
Antenna Input	1.5 V
Video Output	1VP-P
Frequency Response	20 Hz - 20 kHz
S/N Ratio	Better than 80dB
THD	Less than 0.01% at 1 kHz
Distortion and Noise	Less than -60dB at 1 kHz
Indicator	LCD display
Dimensions	65(H) x482 (W) x240 (D) mm

### KB-MP3

- 128\*64 LCD for easy control
- With built-in monitor speaker
- Support MP3/WMA/WAV format and 32 level volume control
- Removable USB storage up to 1GB
- Short Circuit timer signal to turn other units on/off
- Short Circuit alarm signal input to activate the recorded alarm message.
- 2 AC power output sockets up to 1000W, manual or auto timer control



SPECIFICATIONS	KB-MP3
Line in (REC)	10k ohm 330 mV, Unbalanced
Mic in (REC)	10k ohm ≤100 mV, Unbalanced
Line Out	10k ohm ≥300 mV, ±20 mV, Unbalanced
S/N Ratio	>75dB
File Format	Support MP3/WMA/WAV, Voice files
Volume adjust range	32 Level volume control (0 ~ 32)
Port	USB 1.1
Display	LCD display of menu
Power consumption	10 ~ 15 W
Dimensions	89(H) x483 (W) x382 (D) mm



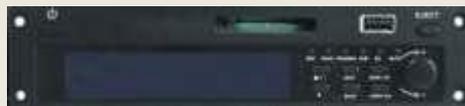
REAR PANEL

## All-in-one PA

KB-D5060 KB-D5120 KB-D5240 KB-D5300



TUNER/MP3/USB/SD MODULE



KB-AS20



KB-AS30

OPTIONAL MODULES FOR KB-5060/5120/5240/5300 SERIES

**FM**

Frequency Range	87.5 Mhz ~ 108 Mhz
Channel Step	50 kHz
Intermediate Frequency	10.7 Mhz
Sensitivity	2 uV @ S/N 30 dB
Stereo Separation	30 dB
Signal to Noise Ration	60 dB

**AM**

Frequency Range	522 kHz ~ 1620 kHz
Channel Step	User selectable for US/Europe
Intermediate Frequency	450 kHz
Sensitivity	20 uV @ S/N 20 dB
Stereo Separation	30 dB
Signal to Noise Ration	50 dB

**Mp3 PLAYER**

Frequency Range	20 Hz ~ 20 kHz
Channel Separation	50 dB
Signal Noise Ratio	60 kHz
Output	1 Volt
Impedance	> 10k

Features

Controls:

Front : 6 Channel Volume Control, Chime & Siren Switch, 5 Zone Speaker Selector & 7 band EQ Control  
 Rear : Priority & Phantom Power Switch for Channel 1 & 2 Trim Pot Control for 6 Input Channel, Level Control for Chime & Siren  
 Telephone Paging Input

Connectors:

Input: Channel 1 : 1/4 Phone Jack, XLR Jack Electronically Balanced

Channel 2-5: Combo Jack Electronically Balanced  
 Channel 6 : Dual RCA Phone Jack 1/4 Phone Jack  
 Amp & Link : 1/4 Phone Jack  
 Output : Speaker Output: Euro Block Terminal  
 Pre-amp & Link: 1/4 Phone Jack

Indicator:

Power, -20 dB, -10 dB, -6 dB, 0 dB, +3 dB & Protect

Protection: Output Current Limiting, Thermal Protection & DC offset Protection Cooling : Convection Cooling

Optional: Rack Mount Kit, Tuner & CD Module

SPECIFICATIONS		KB-D5060	KB-D5120	KB-D5240	KB-D5300
Rated Power (RSM)		60 W	120 W	240 W	300 W
Input Sensitivity/Impedance	Channel 1-5	-54 dB to -10 dB Variable/ 20 k ohm balanced			
	Channel 6	-34 dB to +10 dB Variable/ 47 k ohm Unbalanced			
	Tele-paging	0 dB / 600 ohm Balanced			
Output Level/Impedance	Amp In, Link In	0 dB / 10 k ohm			
	Speaker Output	100 V (165 ohm), 70 V (83 ohm), 25 V (10.4 ohm), 15.5 V (4 ohm),			
	Pre-amp Out, Link Out	0 dB / 600 ohm			
Frequency Response (-3 dB)		50 Hz - 20 kHz			
T.H.D. (1kHz, Rated Power)		<1 %			
Signal to Noise Ratio		> 100 dB			
Graphic Equalizer		+/- 12 dB 125 Hz, 250 Hz, 500 Hz, 1 kHz, 2 kHz, 4 kHz, 8 kHz			
Power Source		Ac 100-240 V, 50/60 Hz			
Net Weight		8.7 kg	9.7 kg	10.8kg	11.9 kg
Dimension (W x H x D)		420 x 88 x 320 mm			

Contact for more details  
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## Compact Amplifiers

### KB-C30PT/C60PT

30W/60W MIXER AMPLIFIER WITH TUNER, MP3 AND USB

These commercial-grade mixer amplifiers with built-in MP3 /TUNER are designed to provide a big impact in sound reproduction and to produce the best and highest quality audio. Highly flexible mixer amplifiers for a wide variety of voice and background music applications such as retail shops, restaurants and bars, service centers, houses of worship, warehouses etc.

- 30W/60W amplifier
- 100V, 70V and 4-16Ohms output 2
- Auxiliary switchable CD/AUX
- 4pin phoenix connector for both balanced mic or Tel in
- 6.35mm jack unbalanced microphone input
- With equalization function
- Music on hold
- Built-in tuner
- Built-in USB port

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REAR PANEL

SPECIFICATIONS	KB-C30PT	KB-C60PT
Rated Power Output	30 W	60 W
Speaker Output	100 V (334 ohms), 70 V(164 ohms), 4,8,16 ohms	
S/N Ratio Mics	> 60dB	
S/N Ratio Aux	> 70dB	
Tone Controls	150 Hz, 1 KHz, 6KHz, + 10dB	{ AVX inputs : 200mv CD inputs : 500mv
Output	775 Mv , 0dB , XLR and phone jack	
Frequency Response	100 - 20,000 Hz	
THD	< 0.5% at Rated Power	
Power Requirements	220-240V AC or 120V AC	
Dimensions	90(H) x 270(W) x 260(D) mm	
Net Weight	4.3 kg	5.8 kg
Color	Black	

# Mixer Amplifiers

## KB-S200P/KB-S300P/KB-S600P/KB-S1000P

### 5-INPUT MIXER AMPLIFIERS

Highly flexible mixer amplifiers 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. Main features are:

- 3 microphone and 2 auxiliary inputs
- 1 line output
- 100V, 70V and 4-16 Ohms transformerisolated speaker outputs
- Automatic mute function for paging and announcements
- Individual input gain controls with master volume control
- Bass and treble tone controls
- LED level meter
- Speaker output short circuit protection



FRONT PANEL



REAR PANEL

SPECIFICATIONS	KB-S200P	KB-S300P	KB-S600P	KB-S1000P
Rated Power Output	70 W	130 W	260 W	360 W
Output Regulation	Less than 3 dB (no load to full load)			
Speaker Output	70 ohms (70V) 143 ohms (100V) Low impedance: 4-16 ohms	38 ohms (70V) 77 ohms (100V) Low impedance: 4-16 ohms	19 ohms (70V) 39 ohms (100V) Low impedance: 4-16 ohms	14 ohms (70V) 28 ohms (100V) Low impedance : 4-16 ohms
Input	MIC 1, 2, 3: 600 ohms, 5-8 mV, unbalanced, phone jack; AUX 1, 2: 10k ohms, 300mV, unbalanced, RCA jack			
Output	600 ohms, >13 V, RCA jack			
Frequency Response	60 - 15,000 Hz, +/- 3dB			
THD	Less than 1% at 1kHz (1/3 Rated Power)			
S/N Ratio	Line : 75db , Mic : 60db			
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 +1db, -5db, -10db, -13db, -17db			
Protection	AC Fuse: 4A Current limiter, short circuit and thermal protection circuits	AC Fuse: 4A	AC Fuse: 8A	AC Fuse: 8A
Power Consumption	150 W	300 W	550 W	750 W
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	10.04 kg	11.36 kg	13.68 kg	14.08 kg
Gross Weight	11.72 kg	13.02 kg	15.32 kg	15.70 kg
Finish	Panel: steel plate, black Case: steel plate, black			

## Booster Amplifiers

### SS-AMP120 SS-AMP240

#### SINGLE CHANNEL POWER AMPLIFIERS

These commercial-grade power amplifiers efficiently deliver up to 240 watts of clean, reliable audio for the most demanding public address and voice alarm 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 and soft start.

- 100V, 70V and 4 Ohms transformerisolated speaker outputs
- Balanced XLR input with XLR parallel link-out connector
- 400Hz high pass filter
- Ground Selector Switch : Frame/float
- Adjustable input gain from -12dB to 0dB



REAR PANEL

SPECIFICATIONS	SS-AMP-120	SS-AMP-240
Rated Power Output	120 W	240 W
Gain Control	-12 dB to 0	
Speaker Output	41 ohms 70V 83 ohms 100V Low impedance: 4 ohm	21 ohms 70V 41 ohms 100V Low impedance: 4 ohms
Frequency Response	60 - 20K Hz, +/- 3dB	
THD	Less than 1.0% at 1kHz (1/2 Rated output)	
S/N Ratio	Better than 90 dB	
Controls	Volume control and power switch	
Cooling	Internal 12VDC fan, extensive heat sinking	
Power Consumption	260 W	500 W
Power Requirments	220-240V AC, 50/60 Hz 24V DC	
Dimensions	89(H) x 483(W) x 377(D) mm	
Built-in Dimensions	2 U rack 19 inch	
Carton Dimensions	185(H) x 520(W) x 435(D) mm	
Net Weight	13 kg	17.66 kg
Finish	Panel: aluminum, black Case: steel plate, black	

## SS-AMP360 SS-AMP480 SS-AMP660

### POWER AMPLIFIERS

These commercial-grade power amplifiers efficiently deliver up to 660 watts of clean, reliable audio for public address applications.

They are ruggedly to give years of reliable service. They are equipped with toroidal power transformers, extensive heat-sinking, fan cooling and protective circuits.

- 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



FRONT PANEL



REAR PANEL

SPECIFICATIONS	SS-AMP360	SS-AMP480	SS-AMP660
Rated Power Output	360 W	480 W	660 W
Output Regulation	Less than 3 dB (no load to full load)		
Speaker Output	13.6 ohms 70V 27.8 ohms 100V Low impedance: 4 ohms	10.7 ohms (70V), balanced 21.7 ohms (100V), balanced Low impedance: 4-16 ohms, balanced	7.4 ohms (70V), balanced 15.1 ohms (100V), balanced Low impedance: 4-16 ohms, balanced
Input	Less than 1V, unbalanced, 10 k ohm, XLR and phone jack		
Output	10 k ohm, 1V, XLR and phone jack		
Frequency Response	50-20k Hz		
THD	Less than 0.5% at 1kHz (1/3 Rated Power)		
S/N Ratio	> 80 dB		
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 Current limiter, short circuit and thermal protection circuits	AC Fuse: 12A	AC Fuse: 15A
Power Consumption	485 W	620 W	880 W
Power Requirements	220 VAG ± 10 % 50 - 60 Hz		
Dimensions	88(H) x 430(W) x 483(D) mm		
Net Weight	15.5 kg	18.1 kg	20.1 kg
Gross Weight	17.1 kg	19.7 kg	21.7 kg

## SS-AMP1000 SS-AMP1500

### POWER AMPLIFIERS

When more power is required, these high power amplifiers provide up to 1500 watts into low impedance and 70 / 100 V speaker loads.

They are ruggedly designed to give years of reliable service, they are equipped with toroidal power transformers, extensive heat-sinking, fan cooling and protective circuits.



- 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



REAR PANEL

SPECIFICATIONS	SS-AMP1000	SS-AMP1500
Rated Power Output	1000 W	1500 W
Output Regulation	Less than 3 dB (no load to full load)	
Speaker Output	4.9 ohms (70V), balanced 10.0 ohms (100V), balanced Low impedance: 4-16 ohms, balanced	3.3 ohms (70V), balanced 6.7 ohms (100V), balanced Low impedance: 4-16 ohms, balanced
Input	Less than 1V, unbalanced, XLR and phone jack	
Output	1V unbalanced, XLR and phone jack	
Frequency Response	50 - 18,000 Hz, +/- 1.5 dB	
THD	Less than 0.5% at 1kHz (1/3 Rated Power)	
S/N Ratio	Better than 85 dB	
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	AC Fuse: 25A
Power Consumption	1750 W	2300 W
Power Requirements	220 VAG ± 10 % 50 - 60 Hz	
Dimensions	133(H) x 486(W) x 483(D) mm	
Net Weight	25 kg	27 kg
Gross Weight	27.5 kg	30 kg

## Microphones

### KB-500WL

740-820MHZ WIRELESS MICROPHONE SYSTEM

- High carrier frequency for superior reception
- Includes receiver and two microphones, clip and handheld optional
- Dual-channel, user-selectable frequency
- 100 meters service range



SPECIFICATIONS	KB-500WL
Frequency Response	50 Hz-18 kHz+/-3dB
Dynamic Range	>110dB
Distortion S/N	<0.5%
Ratio Service	>102dB
Range	100 meters
Operating Temperature	5 to 45 degrees C
Carrier Frequency Range	740-820 MHz
MICROPHONE:	
Frequency Stable Range	0.005%
Carrier Output Power	<30 mW
Pre-Emphasis	75us
RFI Suppression	>40dB
Radio Frequency Type	UHF
Frequency Range	50 kHz
Microphone Type	Dynamic
Power Requirements	3V battery
De-Emphasis	75us
Power Consumption	45 mA
Dimensions	420(L)*220(W)*44(H)
Weight	235 g
RECEIVER:	
Sensitivity	2 micro V
Output Impedance	600 ohms
Output Level	0-800 mV
Power Requirements	DC 16 V
Power Consumption	5 W
Weight	3.5 kg

### MC-Z20

2-TONE CHIME MICROPHONE

- Built-in 2-tone chime
- Red LED indicator
- Push to talk switch
- XLR connector



SPECIFICATIONS	MC-Z20
Frequency Response	40 Hz-16 kHz
Sensitivity	-43dB +/-2dB
Impedance	200 ohms
Controls	ON/OFF switch
Cable	10 meters
Power Requirements	12V DC
Dimensions	43 x 20 x 7.5 cm
Net Weight	1.05 kg

### MC-Z50

DESKTOP MICROPHONE

- High sensitivity, excellent frequency response
- Attractive black ABS base
- ON/OFF switch
- XLR connector



SPECIFICATIONS	MC-Z50
Frequency Response	50 Hz-15 kHz
Sensitivity	-45dB +/-2dB
Impedance	600 ohms
Controls	ON/OFF switch
Cable	10 meters
Power Requirements	1.5V DC
Dimensions	44.5 x 25 x 6.5 cm
Net Weight	1.11 kg

## Speakers

### Ceiling Speakers

#### SS-CP06



SPECIFICATIONS	SS-CP06
Speaker unit Rated	4.5 "
power Transformer	3W, 100V line transformer
power Sensitivity	1.5W-3W
SPL 1m/6 W, 2k Hz	92 dB
Frequency response (-10 dB)	97 dB
Dispersion angle (-6 dB)	120 Hz ~15K Hz
Dimensions	160°
Weight	ø175 x 65mm
Material	0.56 Kg
Color	ABS
Hole cutout	RAL 9003
	ø150 mm

#### SS-CL06E



SPECIFICATIONS	SS-CL06E
Speaker unit Rated	5 "
power Transformer	6W, 100V line transformer
power	3W - 6W
Sensitivity	90 dB
SPL 6 W/1m, 2k Hz	98 dB
Frequency response (-10 dB)	80 Hz ~20K Hz
Dispersion angle (-6 dB)	160°
Dimensions	ø180 x 55mm
Weight	0.6 Kg
Material	Steel
Color	RAL 9003
Hole cutout	ø150 mm

SS-CL06



SPECIFICATIONS	SS-CL06		
Speakers Rated	5"		
Power Input	6 W		
Impedance	1.7 K $\Omega$	3.3 K $\Omega$	6.7 K $\Omega$
Power taps @70V	3 W	1.5 W	0.75 W
Power taps @100V	6 W	3 W	1.5 W
SPL1W \ 1m	88 dB		
SPL1M \ W max	95.8 dB		
Frequency response(effective)	85 Hz~20 KHz		
Dispersion angle	160		
Dimensions	$\varnothing$ 180 x 55 mm		
Hole cut-out size	$\varnothing$ 150 mm		
Weight	0.68 Kg		
Material	Metal		
Color	Similar RAL9010		

TF-20C



SPECIFICATIONS	TF-20C
Rated Power	3/6 W
Line Voltage	100 V
Sensitivity	92dB
THD	< 3 %
Freq. Response	150Hz-15KHz
Hole Cutting Size	Dia 150 mm
Baffle Size	Dia 180 mm
Installation	Ceiling
Enclosure Material	Rugged thermoplastic
Weight	0.68 Kg

TF-218



SPECIFICATIONS	TF-218
Rated Power	3/6 W
Line Voltage	100 V
Sensitivity	90dB
THD	< 3 %
Freq. Response	110Hz-13KHz
Hole Cutting Size	Dia 95 mm
Baffle Size	Dia 103 mm
Installation	Ceiling
Enclosure Material	Plastic
Weight	0.42 Kg

ETF-221



SPECIFICATIONS	ETF-221
Rated Power	2.5/5/10 W
Line Voltage	100 V
Sensitivity	93dB
THD	< 3 %
Freq. Response	110 Hz-13 KHz
Hole Cutting Size	Dia 200 mm
Baffle Size	Dia 230 mm
Installation	Ceiling
Enclosure Material	Rugged thermoplastic
Weight	1.38 Kg

ETF-223



SPECIFICATIONS	ETF-223
Power	20 W
Input Voltage	100 V
Sensitivity	95dB
THD	< 1.8 % at 100 - 8 kHz
Freq. Response	100 Hz-15 KHz
Hole Cutting Size	Dia 204 mm
Product Size	Dia 240 x 151 mm (H)
Installation	Ceiling
Enclosure Material	Rugged thermoplastic
Weight	1.98 Kg

SS-EVA18

(EVAC Ceiling Speaker with fire dome)



SPECIFICATIONS	SS-EVA18
Rated Power	3/6 W
Line Voltage	100 V
Sensitivity	92dB
THD	< 3 %
Freq. Response	180 Hz-20 KHz
Hole Cutting Size	Dia 200 mm
Baffle Size	Dia 228 x 133 mm
Installation	Ceiling
Enclosure Material	Metal
Weight	1.57 Kg

EHB-910B (Black) / EHB-910W (White)

- Ip55, Pendant Speaker
- Ideal for station, Hotel, and market.
- Paper cone coated with Damp to produce clear sound.
- Easy installation.
- ABS enclosure.
- With 4 full range speaker.



SPECIFICATIONS	EHB-910B (Black) EHB-910W (White)
Rated Power	5/10 W
Line Voltage	70/100 V
Sensitivity	±3dB
Distortion	< 3 %
Freq. Response	150Hz-15 KHz
Size Installation	Dia 180 x 700 mm
Enclosure Material	Hang
Weight	ABS
Line Load Resistance	1.28 Kg
Dispersion Angle	614 ohms
	100 degrees

## Speakers

### Wall Mount Speakers

#### SS-WM06



SPECIFICATIONS	SS-WM06	
Speakers Rated	6.5"	
Power Input	3 W	6 W
Impedance	3.3 Kohm	1.7 Kohm
Power taps @70V	1.5 W	3 W
Power taps @100V	3 W	6 W
SPL1W \ 1m max	104.6 dB	
SPL1M \ W	96.8 dB	
Frequency response(effective)	160 Hz-20 Khz X 110Hz - 13KHz	
Dispersion angle	150	
Dimensions	260 x 180 x 120 mm	
Weight	1.08 Kg	
Material	ABS	
Color	Similar RAL9010	

#### SS-EVA19

(EVAC Wall Mount Speaker with metal enclosure)



SPECIFICATIONS	SS-EVA19
Rated Power	2 / 4 W
Line Voltage	100 V
Sensitivity	90 dB
THD	< 3 %
Freq. Response	150 Hz - 20 kHz
Baffle Size	170 x 170 x 63 mm
Installation	Wall Mount
Enclosure Material	Metal
Weight	1.63 kg

## EWS-102



SPECIFICATIONS	EWS-102
Rated Power	10 W
Line Voltage	100 V
Sensitivity	92dB + / - 3db
THD	< 5 %
Freq. Response	110 Hz-13 KHz
Size	345 x 240 x 100 mm
Weight	1.68 kg

## EWS-105B

## EWS-105W



SPECIFICATIONS	EWS-105B / EWS-105W
Rated Power	25 W
Maximum Power	30 W
Input Voltage/impedance	70 V for H - 25 W / H -25 B 4 ohm for HR - 25 W / HR - 25 B 110 V for HI - 25 W / HI - 25 B
Sensitivity	87 dB
THD	< 5 %
Frequency Response	50 Hz - 20 kHz ( + / - 3 dB)
Installation	Wall mounted
Enclosure material	Rugged thermoplastic
Product Size (mm)	320 x 230 x 155
Weight	3.2 kg
Packing Dimensions (mm)	585 x 270 x 380
Speakers	1" TREBLE, 5" BASS

## WS-03



SPECIFICATIONS	WS-03
Rated Power	0.15 W / 1.5 W
Line Voltage	100 V
Sensitivity	89 dB + / - 3 dB
THD	< 3 %
Frequency Response	150 Hz - 15 kHz
Size	130 x 120 x 60 mm
Weight	0.4 kg
Line Load Resistance	589 ohms
Vertical Dispersion	90 degrees
Horizontal dispersion	100 degrees

## HS-267 (IP66)



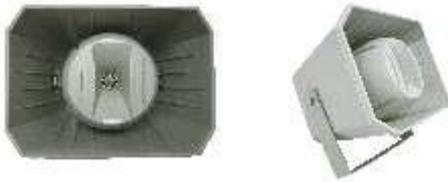
SPECIFICATIONS	HS-267
Rated Power	15 W / 7.5 W
Line Voltage	70 / 100 V
Sensitivity	105 dB + / - 3 dB
THD	< 5 %
Frequency Response	250 Hz - 10 kHz
Dimension	225 X 165 x 240 mm
Weight	1.38 kg
Finish	White

HS-268  
(IP66)



SPECIFICATIONS	HS-268
Rated Power	15 / 30 W
Line Voltage	70 / 100 V
Sensitivity	105 dB + / - 3 dB
THD	< 5 %
Freq. Response	250 Hz - 10 kHz
Dimension	285 X 210 X 290 mm
Weight	1.78 kg
Finish	White

EHS-250  
(IP66)



SPECIFICATIONS	EHS-250
Rated Power	50 W
Line Voltage	70 / 100 V
Sensitivity	99 ± 3 dB
THD	< 5 %
Frequency Response	90 Hz - 20 kHz
Dimension	363 x 253 x 310 mm
Weight	3.9 kg
Finish	White
Material	Rugged thermoplastic

EHB-907  
(IP55)



SPECIFICATIONS	EHB-907
Type	uni - directional
Rated Power	5 / 10 / 20 W
Line Voltage	70 / 100 V
Sensitivity	92 dB + / - 3 dB
THD	< 5 %
Frequency Response	150 Hz - 14 kHz
Baffle size	Dia 170 x 252 mm
Weight	2.82 kg
Line Load Resistance	589 ohms
Dispersion angle	100 degrees

HB-D907  
(IP55)



SPECIFICATIONS	HB-D907
Type	bi - directional
Rated Power	5 / 10 / 20 W
Line Voltage	70 / 100 V
Sensitivity	92 dB + / - 3 dB
THD	< 5 %
Frequency Response	150 Hz - 14 kHz
Baffle size	Dia 170 x 252 mm
Weight	3.4 kg
Line Load Resistance	589 ohms
Dispersion angle	100 degrees

# Speakers

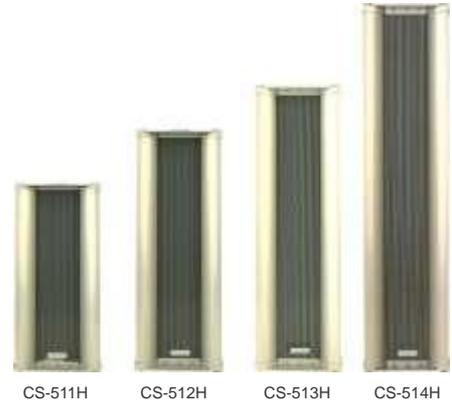
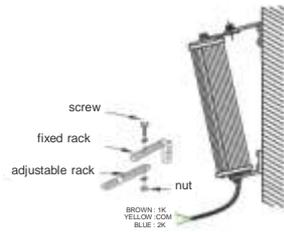
## Column Speakers

### CS-511H CS-512H CS-513H CS-514H

Features:

The standard indoor / outdoor weatherproof speakers provide hi-fi sound quality. They are suitable for use at garden, swimming pool, stadium and tennis court.

- Installation: wall mount
- Enclosure: Aluminum, metal grille
- 4" full range speakers



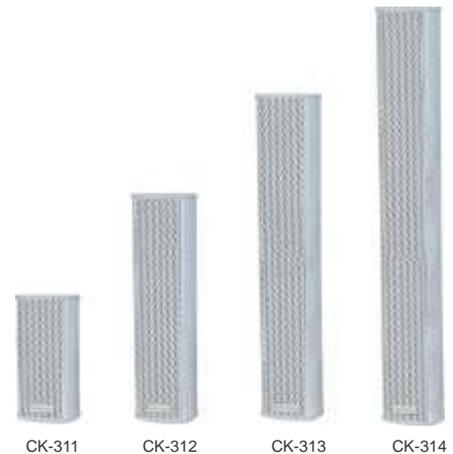
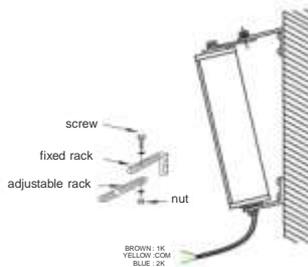
SPECIFICATIONS	CS-511H (IP44)	CS-512H (IP44)	CS-513H (IP44)	CS-514H (IP44)
Rated Power	5 W / 10 W	10 W / 20 W	15 W / 30 W	20 W / 40 W
Line Voltage	100 V	100 V	100 V	100 V
Sensitivity	90 dB	92 dB	93 dB	95 dB
Freq. Response	140 Hz - 16 kHz	140 Hz - 16 kHz	150 Hz - 18 kHz	160 Hz - 18 kHz
Dimensions	270 X 123 X 145 mm	390 x 123 x 145 mm	505 x 123 x 145 mm	620 x 123 x 145 mm
Weight	2.55 kg	4.1 kg	4.35 kg	5.65 kg
Line Load Resistance	614 ohms	448 ohms	345 ohms	256 ohms
Vertical Dispersion	90 degrees	80 degrees	80 degrees	80 degrees
Horizontal Dispersion	90 degrees	90 degrees	90 degrees	256 ohms
Color	Champagne	Champagne	Champagne	Champagne
Materials (enclosure and grille)	Aluminum and iron	Aluminum and iron	Aluminum and iron	Aluminum and iron

### CK-311 CK-312 CK-313 CK-314

Features:

The metal case makes it more durable beautiful shape and easy to install suitable for indoor/outdoor application, such as gym and conference room.

- Enclosure: Aluminum, metal grille
- 2.5 "full range speakers with clear sound



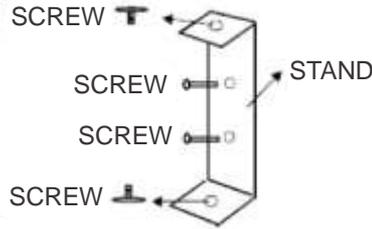
SPECIFICATIONS	CK-311 (IP44)	CK-312 (IP44)	CK-313 (IP44)	CK-314 (IP44)
Rated Power	5 W / 10 W	10 W / 20 W	15 W / 30 W	20 W / 40 W
Line Voltage	100 V	100 V	100 V	100 V
Sensitivity	88 dB	88 dB	90 dB	91 dB
Freq. Response	140 Hz - 15 kHz	150 Hz - 15 kHz	160 Hz - 15 kHz	160 Hz - 16 kHz
Dimensions	261 X 75 X 105 mm	402 x 75 x 105 mm	550 x 75 x 105 mm	690 x 75 x 105 mm
Weight	1.22 kg	1.98 kg	2.74 kg	3.52 kg
Line Load Resistance	640 ohms	486 ohms	358 ohms	448 ohms
Vertical Dispersion	90 degrees	90 degrees	90 degrees	80 degrees
Horizontal Dispersion	100 degrees	110 degrees	110 degrees	110 degrees
Color	White	White	White	White
Materials (enclosure and grille)	Aluminum and iron	Aluminum and iron	Aluminum and iron	Aluminum and iron

# Speakers

## Hi-fidelity Speakers

### EWS-206W/4 EWS-206W/5 EWS-206W/6 EWS-206W/8

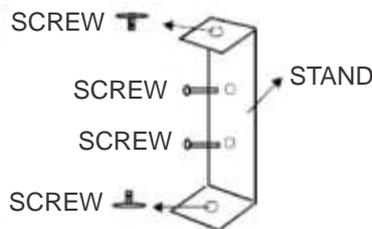
- High sound quality with natural fidelity
- Elegant design with ABS plastic
- Switch for output power selection
- Easy mounting with flexible bracket
- Available in Black or white



SPECIFICATIONS	EWS-206W/4	EWS-206W/5	EWS-206W/6	EWS-206W/8
Power	5/10/20 W	10/20/40 W	15/30/60 W	20/40/80 W
Line Voltage	100V/8 ohm	100V/8 ohm	100V/8 ohmV	100V/8 ohm
Sensitivity	89dB +/- 1dB	89dB +/- 1dB	90dB +/- 1dB	90dB +/- 1dB
Distortion	Less than 3% at 100-8KHz	Less than 3% at 100-8KHz	Less than 3% at 100-8KHz	Less than 3% at 100-8KHz
Frequency Response	80 Hz-18 KHz	80 Hz-18 KHz	80 Hz-18 KHz	80 Hz-18 KHz
Product Size	250 x 160x 145 mm	302 x 172x 165 mm	202 x 193x 344 mm	261 x 275x 455 mm
Installation	Wall mounted	Wall mounted	Wall mounted	Wall mounted
Enclosure material	ABS	ABS	ABS	ABS
Weight	1.45 Kg	3.4 Kg	3.80 Kg	7.46 Kg
Dispersion Angle	90 degrees x 80 degrees	90 degrees x 80 degrees	90 degrees x 80 degrees	90 degrees x 80 degrees
Speakers	20mm x1 (TREBLE) 4"x1(BASS)	25mm x1 (TREBLE) 5.2"x1(BASS)	25mm x1 (TREBLE) 6.5"x1(BASS)	25mm x1 (TREBLE) 8"x1(BASS)

### EWS-206B/4 EWS-206B/5 EWS-206B/6 EWS-206B/8

- High sound quality with natural fidelity
- Elegant design with ABS plastic
- Switch for output power selection
- Easy mounting with flexible bracket
- Available in Black or white



SPECIFICATIONS	EWS-206B/4	EWS-206B/5	EWS-206B/6	EWS-206B/8
Power	5/10/20 W	10/20/40 W	15/30/60 W	20/40/80 W
Line Voltage	100V/8 ohm	100V/8 ohm	100V/8 ohmV	100V/8 ohm
Sensitivity	89dB +/- 1dB	89dB +/- 1dB	90dB +/- 1dB	90dB +/- 1dB
Distortion	Less than 3% at 100-8 KHz	Less than 3% at 100-8 KHz	Less than 3% at 100-8 KHz	Less than 3% at 100-8 KHz
Frequency Response	80 Hz-18 KHz	80 Hz-18 KHz	80 Hz-18 KHz	80 Hz-18 KHz
Product Size	250 x 160x 145 mm	302 x 172x 165 mm	202 x 193x 344 mm	261 x 275x 455 mm
Installation	Wall mounted	Wall mounted	Wall mounted	Wall mounted
Enclosure material	ABS	ABS	ABS	ABS
Weight	1.45 Kg	3.4 Kg	3.80 Kg	7.46 Kg
Dispersion Angle	90 degrees x 80 degrees	90 degrees x 80 degrees	90 degrees x 80 degrees	90 degrees x 80 degrees
Speakers	20mm x1 (TREBLE) 4"x1(BASS)	25mm x1 (TREBLE) 5.2"x1(BASS)	25mm x1 (TREBLE) 6.5"x1(BASS)	25mm x1 (TREBLE) 8"x1(BASS)

## Accessories

### VC-05R / VC-05RF



MODEL	VC-05R	VC-05RF
Type	5 - step resistive, mono	
Power Rating	6 watts	
24 VDC Override	No	Yes
Attenuation	Step 1: OFF Step 2: - 4 dB Step 3: - 1 dB Step 4: - 0.5 dB Step 5: 0 dB	
Frequency Response	20 Hz - 20 kHz	
Dimensions	86 ( W ) x 86 ( H ) x 50 ( D ) mm ( VC -305 R ) 115 ( W ) x 70 ( H ) x 48 ( D ) mm	

### VC-30W / VC-30WF



MODEL	VC-30W	VC-30WF
Type	5 - step auto transformer, mono	
Power Rating	30 watts	
24 VDC Override	No	Yes
Attenuation	Step 1: OFF Step 2: - 17 dB Step 3: - 11 dB Step 4: - 4.5 dB Step 5: 0 dB	
Frequency Response	20 Hz - 20 kHz	
Dimensions	86 ( W ) x 86 ( H ) x 62 ( D ) mm ( VC-3030W ) 115 ( W ) x 70 ( H ) x 64 ( D ) mm	

### VC-60W / VC-60WF



MODEL	VC-60W	VC-60WF
Type	5 - step auto transformer, mono	
Power Rating	60 watts	
24 VDC Override	No	Yes
Attenuation	Step 1: OFF Step 2: - 18 dB Step 3: - 11 dB Step 4: - 5 dB Step 5: 0 dB	
Frequency Response	20 Hz - 20 kHz	
Dimensions	86 ( W ) x 86 ( H ) x 70 ( D ) mm ( VC - 3060 W ) 115 ( W ) x 70 ( H ) x 74 ( D ) mm	

### VC-120W / VC-120WF



MODEL	VC-120W	VC-120WF
Type	5 - step auto transformer, mono	
Power Rating	120 watts	
24 VDC Override	No	Yes
Attenuation	Step 1: OFF Step 2: - 17 dB Step 3: - 11 dB Step 4: - 5.5 dB Step 5: 0 dB	
Frequency Response	20 Hz - 20 kHz	
Dimensions	86 ( W ) x 86 ( H ) x 50 ( D ) mm	
Transformer Dimensions	70 ( W ) x 70 ( H ) x 28 ( D ) mm ( VC - 3120 W ) 115 ( W ) x 70 ( H ) x 74 ( D ) mm	