



Public Address & Voice Alarm System Product Catalogue 2015

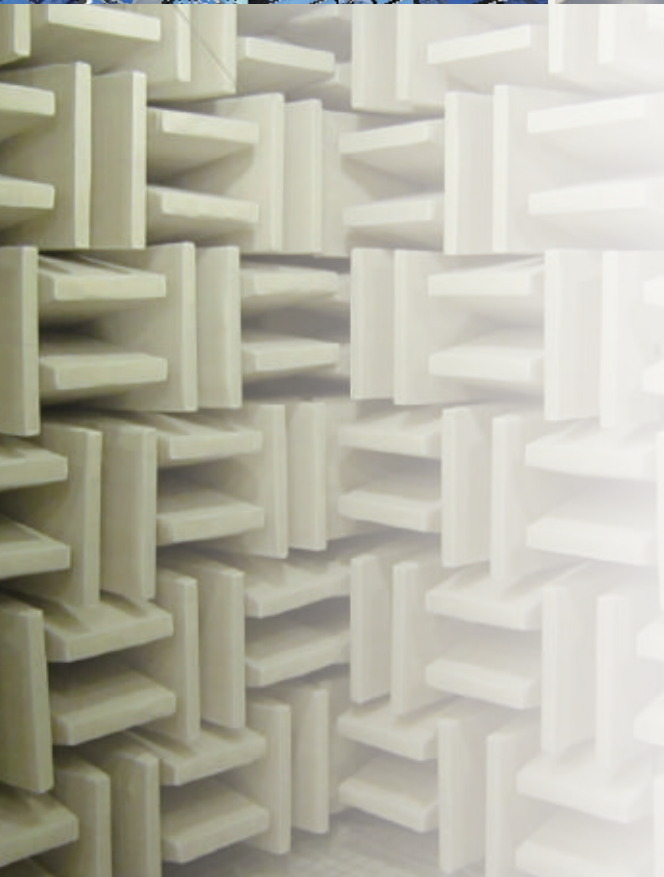
Speakers | Amplifiers | Audio Sources | Microphones | Controllers

Extending Leadership Into Acoustic Excellence

Extend leadership into acoustic excellence!

Honeywell is a Fortune 100 company that invents and manufactures technologies to address tough challenges linked to global macro trends such as safety, security, and energy. With approximately 122,000 employees worldwide, including more than 19,000 engineers and scientists, we have an unrelenting focus on quality, delivery, value, and technology in everything we make and do.

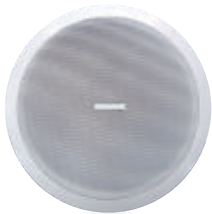
Honeywell Public Address & Voice Alarm products are manufactured by Honeywell Audiovisuals which specializes in acoustics and public address systems and provides customers a better public communication management solution for all occasions where sound is a major intermediary to spread information and a way to improve environmental conditions. Honeywell represents cutting-edge innovation, superior quality and uncompromising safety. No matter what you are looking for, extraordinary sound performance, easy installation and maintenance, cost effectiveness, or just one handsome looking design, Honeywell always has a choice up to your requirement.



With an experienced team of experts researching, developing and testing in our fully equipped anechoic rooms, Honeywell Leadway series loudspeakers adopt internationally recognized industry standards to ensure the high reliability and excellent performance even in the extreme conditions, such as fire. Moreover, Honeywell Audiovisuals 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 Honeywell Public Address & Voice Alarm portfolio comprises of the Public Address products which offer complete range of loudspeakers, amplifiers, microphones and other audio accessories and voice alarm controllers to meet all your Public Address & Voice Alarm needs.

Honeywell



- Ceiling Loudspeaker -



- Cabinet Loudspeaker -



- Horn Loudspeaker -



- Projection Loudspeaker -



- Column Loudspeaker -



- Pendant Loudspeaker -



- Mixer Amplifier -



- Power Amplifier -



- Digital Public Address and Voice Alarm System -



- Voice Alarm Controller -



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01

Ceiling Loudspeaker

Desired exterior compatibility for a better match with environment, ceiling loudspeaker features a high sound pressure level and a wide frequency response range, ensuring flawless acoustic performance.



Ceiling Loudspeaker

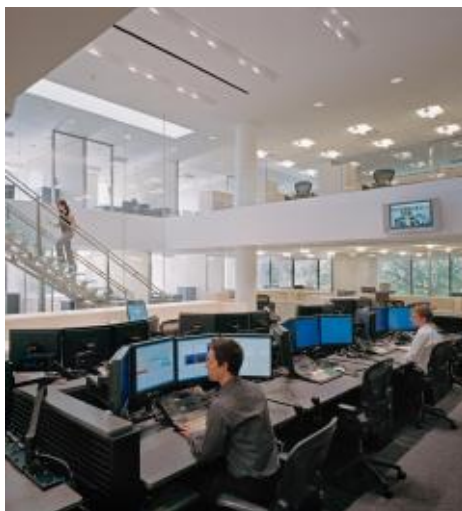
HN-CL06

6W Ceiling Loudspeaker

- Flush-mounting system for fast and easy installation
- Wide frequency response for excellent speech and music reproduction
- Excellent crash and rust resistant design
- Fully ABS plastic with metal grille
- Power tapping options available – 6W/3W/1.5W



SPECIFICATIONS	VALUE
Rated Power / Max Power	6W / 9W
Power Taps	6W / 3W / 1.5W
Rated Voltage	100 V
Sound Pressure Level at 1w (1m & 1KHz)	90 ± 5 dB
Rated Impedance	1667Ω / 3333Ω / 6666Ω
Frequency Response	125Hz – 16kHz (-10 dB with reference to 1kHz)
SPL at rated power/1W	95dB / 88dB (1m & 1KHz)
Size of Speaker (dia)	166 mm
Hole cut out	140 mm
Magnet Weight	90 gm
Connection	4 Pole screw connector
Dimension	166mm X 60mm
Color	White
Weight of Speaker	500 gm



Ceiling Loudspeaker

L-PCM06A

Ceiling Loudspeaker

- Flush-mounting system for fast and easy installation
- Cone with gasket designed for longer operation life
- Sturdy press fit metal grille appearance
- Higher sensitivity
- Excellent crash and rust resistant performance
- CE and RoHS compliant



SPECIFICATIONS	L-PCM06A
Rated Power / Max Power	6W / 9W
Power taps @ 100V	6W / 3W / 1.5W
SPL at 6W / 1W (4KHz, 1m)	98 dB / 92 dB
Frequency response (- 10 dB)	150 Hz - 20KHz
Dispersion angle (1KHz / -6 dB)	160°
Rated input voltage	100 V
Rated impedance	1.7k Ω / 3.3k Ω / 6.7k Ω
Connector	Plastic terminal blocks
Dimensions (Φ \times H)	Φ 180 mm \times 55 mm
Hole cut-out size	150 mm
Diameter of speaker	5"
Weight	0.71 kg
Color	White (RAL9010)
Weight of magnet	117 g

L-PCM06B

Ceiling Loudspeaker

- Flush-mounting system for fast and easy installation
- Cone edge with damp glue for longer operation life
- Sturdy press fit metal grille appearance
- CE and RoHS compliant



SPECIFICATIONS	L-PCM06B
Rated Power / Max Power	6W / 9W
Power taps @ 100V	6W / 3W / 1.5W
SPL at 6W / 1W (4KHz, 1m)	102 dB / 94 dB
Frequency response (- 10 dB)	110 Hz - 18 KHz
Dispersion angle (1KHz / -6 dB)	180°
Rated input voltage	100 V
Rated impedance	1.7k Ω / 3.3 k Ω
Connector	Push-in terminal block
Dimensions (Φ \times H)	Φ 200 \times 100 mm
Hole cut-out size	Φ 175 mm
Weight	1.08 Kg
Color	White (RAL 9003)
Speaker size	6.5"
Operating temperature	- 25 °C to + 55 °C
Storage temperature	- 40 °C to + 70 °C
Relative humidity	< 95 %

L-PCP06A

Ceiling Loudspeaker

- Flush-mounting system for fast and easy installation
- Cone with gasket designed for longer operation life
- Stylish and unobtrusive design
- Compact and high strength fire resistant ABS plastic
- Environment friendly
- CE and RoHS compliant



SPECIFICATIONS	L-PCP06A
Rated Power / Max Power	6W / 9W
Power taps @ 100V	6 W / 3 W
SPL at 6W / 1W (4KHz, 1m)	98 dB / 92 dB
Frequency response (- 10 dB)	190 Hz - 20KHz
Dispersion angle (1KHz / -6 dB)	150°
Rated input voltage	100 V
Rated impedance	1.7k Ω / 3.3k Ω
Connector	Push terminal
Dimensions (Φ \times H)	Φ 103 mm \times 80 mm
Hole cut-out size	95 mm
Diameter of speaker	2.5"
Weight	420 g
Color	White (RAL9003)
Weight of magnet	93 g

Ceiling Loudspeaker

L-PCP06B

Ceiling Loudspeaker

- High strength fire resistant ABS plastic
- Higher sensitivity
- Easy installation and cost effective
- Simple power operation
- Excellent anti-crush performance
- CE and RoHS compliant



SPECIFICATIONS	L-PCP06B
Rated Power / Max Power	6W / 9W
Power taps @ 100V	6 W / 3 W
SPL at 6W / 1W (4KHz, 1m)	98 dB / 92 dB
Frequency response (- 10 dB)	110 Hz - 18KHz
Dispersion angle (1KHz / -6 dB)	150°
Rated input voltage	100 V
Rated impedance	1.7k Ω / 3.3k Ω
Connector	Plastic terminal blocks
Dimensions (Φ × H)	Φ 188 mm × 75 mm
Hole cut-out size	Φ 175 mm
Diameter of speaker	5.5"
Weight	0.77 kg
Color	White (RAL9003)
Weight of magnet	152 g

L-PCP06C

Ceiling Loudspeaker

- Flush-mounting system for fast and easy installation
- Stylish and unobtrusive design
- Compliant with IP54 standard with great water-proof ability
- Environment friendly
- CE and RoHS compliant



SPECIFICATIONS	L-PCP06C
Rated Power / Max Power	6W / 9W
Power taps @ 100V	6 W / 3 W / 1.5 W
SPL at 6W / 1W (4KHz, 1m)	98 dB / 92 dB
Frequency response (- 10 dB)	100 Hz - 18 KHz
Dispersion angle (1KHz / -6 dB)	150°
Rated input voltage	100 V
Rated impedance	1.7 KΩ / 3.3 KΩ / 6.7 KΩ
Connector	Plastic terminal blocks
Dimensions (Φ × H)	Φ 188 mm × 75 mm
Hole cut-out size	Φ 170 mm
Speaker size	5.5"
Weight	0.77 kg
Operating temperature	- 25 °C to + 55 °C
Storage temperature	- 40 °C to + 70 °C
Relative humidity	< 95 %

L-PCP20A

Ceiling Loudspeaker

- Coaxial design provides wider frequency range
- Easy connection and installation
- Sturdy ABS grille for reliable electrical insulation and longer operating life
- CE and RoHS compliant



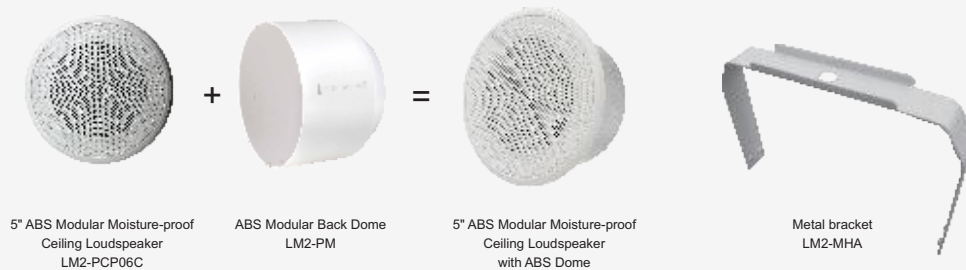
SPECIFICATIONS	L-PCP20A
Rated Power / Max Power	20W / 30W
Power taps @ 100V	20 W / 10 W
SPL at 20W / 1W (4 KHz, 1m)	104 dB / 92 dB
Frequency response (- 10 dB)	100 Hz - 20 KHz
Dispersion angle (1KHz / -6 dB)	120°
Rated input voltage	100 V
Rated impedance	500 Ω / 1KΩ
Connector	Binding post terminals
Dimensions (Φ × H)	Φ 240 mm × 151 mm
Hole cut-out size	Φ 210 mm
Diameter of speaker	5.5"
Weight	2.0 Kg
Color	White (RAL9010)
Weight of magnet	283 g

Ceiling Loudspeaker

LM2-PCP06x

ABS Modular Ceiling Loudspeaker Family

- Superior voice and music reproduction
- Stylish design
- Easy for installation
- Excellent moisture-proof ability, complying to Ip54 and IP55 Standard (LM2-PCP06C)
- Optional back dome LM2-PM for choice
- Optional metal bracket LM2-MHA for suspended installation
- Comply with CE and RoHS standard



SPECIFICATIONS	LM2-PCP06A	LM2-PCP06B	LM2-PCP06C	LM2-PM
Max power	9W	9W	9W	
Rated power	6W	6W	6W	
Power taps @ 100V	6W / 3W / 1.5W	6W / 3W / 1.5W	6W / 3W / 1.5W	
SPL at 6W/1W	100dB / 92dB(120Hz-18KHz, 1m)	100dB / 92dB(120Hz-18KHz, 1m)	97dB / 89dB(150Hz-18KHz, 1m)	
Frequency range(-10dB)	80Hz - 20KHz	80Hz - 20KHz	110Hz - 20KHz	
Dispersion angle (1KHz/4KHz,6dB)	184° / 90°	184° / 90°	184° / 90°	
Rated input voltage	100V	100V	100V	
Rated impedance	1.7KΩ / 3.3KΩ / 6.7KΩ	1.7KΩ / 3.3KΩ / 6.7KΩ	1.7KΩ / 3.3KΩ / 6.7KΩ	
Connection	4-pole screw plastic block	4-pole screw plastic block	4-pole screw plastic block	
Dimensions(Ø x H)	Ø180mm x 73mm	Ø180mm x 105mm	Ø180mm x 73mm	Ø139 mm x 100mm
Hole cut-out size	Ø160mm +5mm	Ø160mm +5mm	Ø160mm +5mm	
Diameter of speaker	5"	5"	5"	
Weight	0.64kg	0.76kg	0.64kg	0.12 kg
Color	White (RAL 9003)	White (RAL 9003)	White (RAL 9003)	White (RAL 9003)
Material	ABS	ABS	ABS	ABS
Material of dome	No	ABS	No	

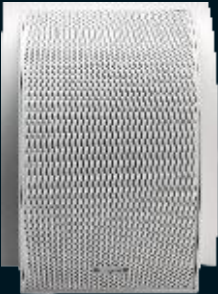
* LM2-PCP06C complies with IP 54 standard, and complies with IP 55 when tested with LM2-PM



02

Cabinet Speakers

Multi-purpose cabinet loudspeaker, lucid in treble while powerful in bass, delivering superb sounds effects is ideal for general indoor applications.



Cabinet Speakers

L-PWP03A

ABS Moisture-proof Cabinet Loudspeaker

- Water-proof cone
- Compact and modern design
- High strength and fire proof ABS enclosure
- Easy installation and cost effective
- CE and RoHS compliant



SPECIFICATIONS	L-PWP03A
Max power	5W
Rated power	3W
Power taps @ 100V	3W / 1.5W
SPL at 3W/1W (3KHz,1m)	98dB / 92dB
Frequency range (-10dB)	150Hz - 15KHz
Dispersion angle (1KHz/-6dB)	180°
Rated input voltage	100V
Rated impedance	3.3KΩ / 6.7KΩ
Connection	Push-in terminal block
Dimensions (W x H x D)	120 x 130 x 60mm
Diameter of speaker	3"
Weight	0.4kg
Color	White (RAL 9003)
Material	ABS

L-PWP06A

ABS Cabinet Loudspeaker

- Superb audio and music reproduction
- High-impact ABS cabinet
- Simple power setting
- Flush mounting in ceiling, wall and furniture
- CE and RoHS compliant



SPECIFICATIONS	L-PWP06A
Max power	9W
Rated power	6W
Power taps @ 100V	6W / 3W
SPL at 6W/1W (1KHz,1m)	100dB / 94dB
Frequency range (-10dB)	130Hz - 20KHz
Dispersion angle (1KHz/-6dB)	120°
Rated input voltage	100V
Rated impedance	1.7KΩ / 3.3KΩ
Connection	Cable
Dimensions (W x H x D)	260 x 162 x 77mm
Diameter of speaker	5.5"
Weight	1kg
Color	White (RAL 9010)
Material	ABS

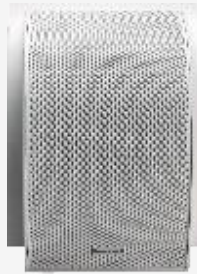


Cabinet Speakers

L-PWP10A

ABS Cabinet Loudspeaker

- Multi-cone speaker with powerful and lucid audio performance
- High-impact and fire proof ABS material
- Stylish design
- Easy installation and cost effective
- CE and RoHS compliant



SPECIFICATIONS	L-PWP10A
Max power	15W
Rated power	10W
Power taps @ 100V	10W / 5W
SPL at 10W/1W (200Hz - 15KHz, 1m)	101dB / 92dB
Frequency range (-10dB)	150Hz - 17KHz
Dispersion angle (1KHz/-6dB)	170°
Rated input voltage	100V
Rated impedance	1KΩ / 2KΩ
Connection	Push-in terminal block
Dimensions (W x H x D)	240 x 345 x 100mm
Diameter of speaker	6.5"
Weight	1.6kg
Color	White (RAL 9010)
Material	ABS

L-PWP40A/L-PWP40B L-PWP60A/L-PWP60B L-PWP80A/L-PWP80B

ABS Full Range Cabinet

- High quality sound effect, lucid in treble powerful in bass
- Delicate and strong ABS enclosure
- Mounting brackets available
- In a choice of charcoal and white
- Selectable 8 ohms, 70V and 100V inputs
- CE and RoHS compliant



SPECIFICATIONS	L-PWP40A/L-PWP40B	L-PWP60A/L-PWP60B	L-PWP80A/L-PWP80B
Max power	60W	80W	100W
Rated power	40W	60W	80W
Power taps @ 100V	40W / 20W / 10W	60W / 30W / 15W	80W / 40W / 20W
SPL	99dB / 84dB (40W/1W,130Hz-20KHz,1m)	108dB / 90dB (60W/1W,100Hz-20KHz,1m)	109dB/ 92dB (80W/1W,80Hz-20KHz,1m)
Frequency range (-10dB)	100Hz - 20KHz	80Hz - 20KHz	60Hz - 20KHz
Dispersion angle (1KHz/-6dB)	160°	135°	115°
Rated input voltage	100V / 8Ω	100V / 8Ω	100V / 8Ω
Rated impedance	250Ω / 500Ω / 1KΩ	167Ω / 333Ω / 667Ω	125Ω / 250Ω / 500Ω
Connection	Binding Post Terminals	Binding Post Terminals	Binding Post Terminals
Dimensions (W x H x D)	172 x 302 x 165mm	193 x 344 x 202mm	275 x 455 x 261mm
Diameter of speaker	5.25" woofer, 1" tweeter	6.5" woofer, 1" tweeter	8" woofer, 1" tweeter
Weight	3.2kg	3.8kg	7.5kg
Color	White (RAL 9003) (L-PWP40A) Charcoal (RAL 7021) (L-PWP40B)	White (RAL 9003) (L-PWP60A) Charcoal (RAL 7021) (L-PWP60B)	White (RAL 9003) (L-PWP80A) Charcoal (RAL 7021) (L-PWP80B)
Material	ABS	ABS	ABS

Cabinet Speakers

L-VWM06A/EN

EN54-24 EVAC Certified
Emergency
Voice Alarm

Metal Cabinet Loudspeaker

- Intelligible voice and superior sound reproduction
- Robust metal enclosure
- Harmonious with all indoor decoration
- Simple power setting
- Easy installation
- Complies with EN54-24 standard



SPECIFICATIONS	L-VWM06A/EN
Max power	9W
Rated power	6W
Power taps @ 100V	6W / 3W / 1.5W / 0.75W
SPL at 6W/1W (100Hz - 10KHz, 1m)	98dB / 91dB
SPL at 6W/1W (100Hz - 10KHz, 4m)	86dB / 79dB
Frequency range (-10dB)	200Hz - 20KHz
Rated input voltage	100V
Rated impedance	1.7KΩ / 3.3KΩ / 6.7KΩ / 13KΩ
Connection	Ceramic Terminal
Dimensions (W x H x D)	170 x 170 x 63mm
Diameter of speaker	4"
Weight	1.56kg
Color	White (RAL 9003)
Material	Iron
Thermal Fuse	150°C
Dispersion Angle (1KHz/-6dB)	180°





03

Horn Speakers

Conforming to IP65 standard, the high quality horn loudspeaker is applicable in harsh conditions requiring an entire protection of dust intrusion and water penetration.



Horn Speakers

L-PHP15A

Horn Loudspeaker

- Low profile appearance
- Superior voice reproduction effect
- Water and dust proof , IP66 compliant
- Easy for installation
- International safety standards compliant



SPECIFICATIONS	L-PHP15A
Max power	25W
Rated power	15W
Power taps @ 100V	15W / 7.5W
SPL at 15W/1W(1m, 350Hz~7KHz)	115dB / 103dB
Frequency response (-10dB)	350Hz - 8KHz
Dispersion angle (1KHz/-6dB)	140°
Rated input voltage	100V
Rated impedance	667Ω / 1.3kΩ
Connection	Flexible wire
Dimensions	225 mm x 165 mm x 240 mm
Weight	1.38kg
Color	White (Similar to RAL9003)
Material	ABS

L-PHP30A

ABS Horn Loudspeaker

- High impact fire-proof ABS material
- Excellent audio performance and music reproduction
- Antirust and chemical resistant
- CE and RoHS compliant
- IP66



SPECIFICATIONS	L-PHP30A
Max power	45W
Rated power	30W
Power taps @ 100V	30W / 15W
SPL at 30W/1W (4KHz,1m)	117dB / 105dB
Frequency response (-10dB)	250Hz - 10KHz
Dispersion angle (1KHz/-6dB)	140°
Rated input voltage	100V
Rated impedance	333Ω / 667Ω
Connection	Flexible wire
Dimensions	285 x 205 x 290mm
Weight	2.1kg
Color	White (RAL 9003)
Material	ABS

L-PHP50A

ABS Music Horn

- Divided frequency system
- Wide opening angle
- Sturdy ABS enclosure
- CE and RoHS compliant
- IP65



SPECIFICATIONS	L-PHP50A
Max power	75W
Rated power	50W
Power taps @100V	50W / 25W / 12.5W / 9W / 4.5W / 2.6W / 8Ω
SPL at 50W/1W (4KHz,1m)	101dB / 86dB
Frequency range (-10dB)	150Hz - 17KHz
Dispersion angle (1KHz/-6dB)	70°
Rated input voltage	100
Rated impedance	200Ω / 400Ω / 800Ω / 1.1KΩ / 2.2KΩ / 3.9KΩ
Connection	Plastic terminal blocks
Dimensions (Wx H x D)	252 x 362 x 310mm
Weight	4kg
Color	Light grey (RAL 7035)
Material	ABS



04

Projection Loudspeakers

Eligible to various public address applications, projection loudspeaker offers extraordinary audio performance and music reproduction.



Projection Loudspeakers

L-PJP20A

ABS Unidirectional Projection Loudspeaker

- Stylish and unobtrusive design
- High impact and fire proof ABS enclosure
- Easy installation and cost effective
- CE and RoHS compliant
- IP65



SPECIFICATIONS	L-PJP20A
Max power	30W
Rated power	20W
Power taps @ 100V	20W / 10W
SPL at 20W/1W (200Hz - 15KHz, 1m)	111dB / 91dB
Frequency response (-10dB)	100Hz - 15KHz
Dispersion angle (1KHz/-6dB)	120°
Rated input voltage	100V
Rated impedance	500Ω / 1KΩ
Connection	Cable
Dimensions (D x L)	Φ180mm x 230mm
Weight	2.1kg
Color	White (RAL 9003)
Material	ABS

L-PBM20A

Aluminum Bidirectional Projection Loudspeaker

- Ceiling or wall mount installation
- Meets virtually any indoor and outdoor requirement
- Easy installation and cost effective
- CE and RoHS compliant
- IP65



SPECIFICATIONS	L-PBM20A
Max power	30W
Rated power	20W (10W×2)
Power taps @ 100V	20W / 10W / 5W / 2.5W
SPL at 20W/1W (4KHz, 1m)	104dB / 92dB
Frequency response (-10dB)	150Hz - 15KHz
Dispersion angle (1KHz/-6dB)	180°
Rated input voltage	100V
Rated impedance	500Ω / 1KΩ / 2KΩ / 4KΩ
Connection	Fire-resistant Cable
Dimensions (D x L)	Φ140 x 195mm
Weight	3.23 kg
Color	White (RAL 9003)
Material	Aluminum

L-PJM10A L-PJM20A

Aluminum Unidirectional Projection Loudspeaker

- Ceiling or wall mount installation
- Meets virtually any indoor and outdoor requirement
- CE and RoHS compliant
- IP65



SPECIFICATIONS	L-PJM10A	L-PJM20A
Max power	20W	30W
Rated power	10W	20W
Power taps @ 100V	10W / 5W / 2.5W / 1.25W	20W / 10W / 5W / 2.5W
SPL	at 10W/1W(170Hz - 20KHz, 1m) 98dB / 89dB	at 20W/1W(200Hz - 15KHz, 1m) 102dB / 90dB
Frequency response (-10dB)	150Hz - 20KHz	150Hz - 20KHz
Dispersion angle (1KHz/-6dB)	180°	180°
Rated input voltage	100V	100V
Rated impedance	1KΩ / 2KΩ / 4KΩ / 8KΩ	500Ω / 1KΩ / 2KΩ / 4KΩ
Connection	Fire-resistant Cable	Fire-resistant Cable
Dimensions (D x L)	Φ140 x 195mm	Φ140 x 195mm
Weight	2.62kg	2.65kg
Color	White (RAL 9003)	White (RAL 9003)
Material	Aluminum	Aluminum

Projection Loudspeakers

L-VJM10A/EN L-VJM20A/EN

EN54-24 EVAC Certified
Emergency
Voice Alarm

Aluminum Unidirectional Projection Loudspeaker

- Ceiling or wall mount
- Meets virtually any outdoor requirements
- Complies with IP65 standard
- Complies with EN54-24 standard



SPECIFICATIONS	L-VJM10A/EN	L-VJM20A/EN
Max power	20W	30W
Rated power	10W	20W
Power taps @ 100V	10W / 5W / 2.5W / 1.25W	20W / 10W / 5W / 2.5W
SPL at 10W / 1W (100Hz-10KHz,1m)	98dB / 89dB	101dB / 89dB
SPL at 10W / 1W (100Hz-10KHz,4m)	86dB / 77dB	89dB/77dB
Frequency response (-10dB)	150Hz - 20KHz	150Hz - 20KHz
Rated input voltage	100V	100V
Rated impedance	1KΩ / 2KΩ / 4KΩ / 8KΩ	500Ω / 1KΩ / 2KΩ / 4KΩ
Connection	Fire-resistant Cable	Fire-resistant Cable
Dimensions (D x L)	Φ140 x 195mm	Φ140 x 195mm
Weight	2.62kg	2.65kg
Color	White (RAL 9003)	White (RAL 9003)
Material	Aluminum	Aluminum



L-VBM20A/EN

EN54-24 EVAC Certified
Emergency
Voice Alarm

Aluminum Bidirectional Projection Loudspeaker

- Ceiling or wall mount
- Meets virtually any outdoor requirements
- Complies with IP65 standard
- Complies with EN54-24 standard



SPECIFICATIONS	L-VBM20A/EN	L-VBM20A/EN
Max power	30W	
Rated power	20W (10W×2)	
Power taps @ 100V	20W / 10W / 5W / 2.5W	
SPL at 20W/1W (100Hz-10KHz,1m)	99dB / 87dB	
SPL at 20W/1W (100Hz-10KHz,4m)	87dB / 75dB	
Frequency response (-10dB)	150Hz - 15KHz	
Rated input voltage	100V	
Rated impedance	500Ω / 1KΩ / 2KΩ / 4KΩ	
Connection	Fire-resistant Cable	
Dimensions (D x L)	Φ140 x 195mm	
Weight	3.23kg	
Color	White (RAL 9003)	
Material	Aluminum	



05

Pendant Loudspeakers

Pendant loudspeaker of Leadway series adopts elegant design and convenient installation method, which can be hanged on the ceiling with the accessory cables. As wide as 360 degree sound coverage makes it the best choice for most indoor applications.



Pendant Loudspeakers

L-PPP20A

ABS Pendant Loudspeaker

- Suitable for speech and music reproduction
- Simple power setting
- Easy installation
- Robust fire resistant ABS enclosure
- Supplied with a 2m long fire resistant cable
- CE and RoHS compliant



SPECIFICATIONS	L-PPP20A
Rated power	20W
Power taps @ 100V	20W / 10W / 5W
SPL at 20W/1W (100Hz - 6KHz, 1m)	103dB / 90dB
Frequency response (-10dB)	130Hz - 15KHz
Dispersion angle (1KHz/-6dB)	Horizontal 360°, Vertical 140° - 160°
Rated input voltage	100V
Rated impedance	500Ω / 1KΩ / 2KΩ
Connection	Wire Cable
Dimensions (D x L)	Φ254
Speaker Size	8"
Weight	2.2kg
Color	White
Material	ABS

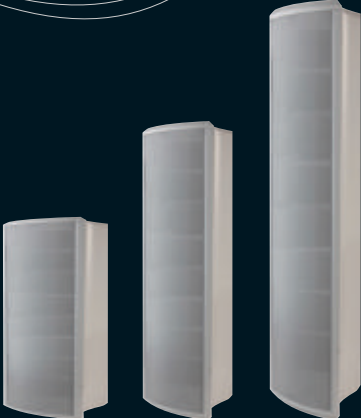




06

Column Speaker

Leadway outdoor column loudspeaker featuring wide dispersion angle and excellent acoustic performance fit in various applications. Its solid and durable enclosure makes it withstand any harsh environment.

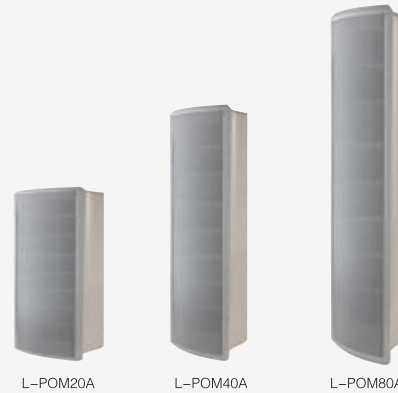


Column Speakers

L-POM20A L-POM40A L-POM80A

Aluminum Outdoor Column Loudspeaker

- Robust aluminum housing
- Supplied with universal swivel bracket for easy angle adjustment
- Applicable to extreme environment
- CE and RoHS compliant
- IP66



L-POM20A

L-POM40A

L-POM80A

SPECIFICATIONS	L-POM20A	L-POM40A	L-POM80A
Max power	30W	60W	100W
Rated power	20W(10W x 2)	40W(10W x 4)	80W(10W x 8)
Power taps @ 100V	20W / 10W / 5W / 2.5W	40W / 20W / 10W / 5W	80W / 40W / 20W / 10W
SPL	at 20W/1W(350Hz - 15KHz,1m) 105dB / 92dB	at 40W/1W(200Hz - 15KHz,1m) 110dB / 94dB	at 80W/1W(300Hz - 15KHz,1m) 107dB / 90dB
Frequency response (-10dB)	300Hz - 15KHz	300Hz - 15KHz	300Hz - 15KHz
Dispersion angle (1KHz/-6dB)	160°	150°	180°
Rated input voltage	100V	100V	100V
Rated impedance	500Ω / 1kΩ / 2kΩ / 4kΩ	250Ω / 500Ω / 1kΩ / 2kΩ	125Ω / 250Ω / 500Ω / 1kΩ
Connection	fire-resistant cable	fire-resistant cable	fire-resistant cable
Dimensions (W×H×D)	165 x 150 x 344mm	165 x 150 x 568mm	165 x 150 x 1016mm
Weight	3.75kg	5.75kg	9.5kg
Color	White (RAL 9003)	White (RAL 9003)	White (RAL 9003)
Speaker size	4"×2	4"×4	4"×8
Material	Aluminum	Aluminum	Aluminum

L-VOM20A/EN L-VOM40A/EN

EN54-24 EVAC Certified
Emergency
Voice Alarm

Aluminum Outdoor Column Loudspeaker

- Robust aluminum housing
- Supplied with universal swivel bracket for easy angle adjustment
- Adapts to extreme environment
- Complies with IP66 standard
- Complies with EN54-24 standard



L-VOM20A/EN(C)

L-VOM40A/EN(C)

SPECIFICATIONS	L-VOM20A/EN	L-VOM40A/EN
Max power	30W	60W
Rated power	20W(10W x 2)	40W(10W x 4)
Power taps @ 100V	20W / 10W / 5W / 2.5W	40W / 20W / 10W / 5W
SPL at 20W / 1W (100Hz-10KHz,1m)	103dB / 91dB	108dB / 94dB
SPL at 20W / 1W (100Hz-10KHz,4m)	91dB / 79dB	96dB / 82dB
Frequency response (-10dB)	300Hz - 15KHz	300Hz - 15KHz
Rated input voltage	100V	100V
Rated impedance	500Ω / 1kΩ / 2kΩ / 4kΩ	250Ω / 500Ω / 1kΩ / 2kΩ
Connection	fire-resistant cable	fire-resistant cable
Dimensions (W×H×D)	165 x 150 x 344 mm	165 x 150 x 568mm
Weight	3.75 kg	5.75kg
Color	White (RAL 9003)	White (RAL 9003)
Speaker size	4"×2	4"×4
Material	Aluminum	Aluminum



07

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.



5 Zone Mixer Amplifier

HN-5120R/ HN-5240R/ HN-5300R Compact Class-D Mixer Amplifier With Audio Source and Paging Station

- 3-level priority with mute function
- Advanced protection system includes current limiting, over current and thermal protection
- 7 band graphic equalizer
- Extendable by adding audio mixer and power amplifier with LINK and PRE-AMP
- Compact size and light weight
- 5-zone remote paging microphone
- Telephone paging input and dry contact of chime



SPECIFICATIONS	HN-5120R/ HN-5240R/ HN-5300R
Input Sensitivity for full output at maximum gain	
Balanced Microphone Channels 1-5	-50 dB ± 3 dB
Balanced Line Channels	-6 dB ± 3 dB
Balanced Microphone Channel 6	-50 dB ~ -6 dB ± 3 dB
RCA Jack	-30 dB ~ 14 dB ± 3 dB
Balanced TELE- PAGING/MIC Input	-40 dB ~ 0 dB ± 3 dB
Unbalanced Link-In	-17 dB ± 3 dB
Unbalanced Amp-In	0 dB ± 3 dB
Balanced Remote Paging Station	+18 dB ± 3 dB
Frequency Response	
At 1 W from speaker out tap.100 Hz~10 KHz	+1.5 dB / -3 dB
Graphic Equalizer	
125 Hz, 250 Hz, 500 Hz, 1 KHz, 2 KHz, 4 KHz, 8 KHz	±12 dB ±3 dB
Signal to Noise Ratio at rated power output	> 75 dB
Weight of Speaker	500 gm-60 dB at 1 KHz
Output Power at THD 0.5%	HN-5120R:120W HN-5240R:240W HN-5300R:300W
Total Harmonic Distortion(THD) at 1 KHz rated power	< 0.5%
Phantom Power	15 VDC
Power Band Width at 1 KHz from speaker out tap	80 Hz ~ 15 KHz with less than 0.5% THD
Operating Temperature/Humidity at non-condensing	0 ~ 40 °C at 95% humidity
Output Voltage and Impedance	
8 Ω	HN-5120R:31 V HN-5240R:44 V HN-5300R:49 V
100 V	HN-5120R:83 Ω HN-5240R:41.6 Ω HN-5300R:33.3 Ω
Construction	
Cooling	Convection Cooled
Dimensions (W x H x D)	420 x 88 x 320 mm
Net Weight	HN-5120R:9.76 kg HN-5240R:10.5 kg HN-5300R:10.93 kg

HN-AS20
Integrated Audio Source

HN-AS30
Integrated Audio Source

HN-5120R/ HN-5240R/ HN-5300R
Compact Class-D Mixer Amplifier

HN-5RCS
Remote Paging Station



5 Zone Mixer Amplifier

HN-5RCS

5 Zone Remote Paging Station

- 5 zones high quality live paging
- Zone music on/off
- CHIME on/off
- Output level meter
- MIC volume control
- PTT and lock mode selectable
- Communication failure alert



SPECIFICATIONS	HN-5RCS
Power consumption	< 6 W
Frequency response	150 ~ 15KHz
Output sensitivity	+18 dBu (Adjustable)
Signal to noise ratio	> 75 dB (With A-Weight)
Non-linear distortion	< 0.5%
Indicator lights	1 power indicator 1 fault indicator 5 signal level indicators 5 zone on/off indicators 1 all on/off indicator 1 talk indicator
Operating conditions	95% humidity, 0°C ~+40°C (0~104°F) (no condensation)
Storage temperature	-10°C ~ +55°C (14°F~131°F)

HN-AS20

Integrated Audio Source Module

- MPEG 1/2/2.5 Layer2/3(MP3), WMA9 L1/L2 decoder with USB host and SD/MMC controller
- Built-in 64K flash memory for program code storage
- Built-in 32 steps electronic volume control
- Preset EQ (Classic / Pop / Jazz / Rock) with LOUD function
- Recognition file and folder up to 2,000 files and 200 folders
- Available ID3 tag up to 32 characters (File name->Title->Artist->Album)



HN-AS30

Integrated Audio Source Module Mp3 Player With PLL MW/FM Radio/CD/CD-R/CD-RW

- Automatic and manual mode
- Storage up to 30 channels
- The CD and USB player can read WAV, WMA and MP3 formats with an equalizer
- Built-in 32 steps electronic volume control
- Built-in 64K flash memory for program code storage
- Available ID3 tag up to 32 characters (File name->Title->Artist->Album)



SPECIFICATIONS	HN-AS30
FM SECTION	
Frequency range	87.5 ~ 108.0 MHz
Channel step	50 KHz
Intermedia frequency	10.7 MHz
Sensitivity	2 UV at 30 dB S/N
Signal to noise ratio	> 60 dB
MW SECTION	
Frequency range	522 ~ 1620 KHz
Channel step	9 KHz
Intermedia frequency	455 KHz
Sensitivity	30 dB
Signal to noise ratio	> 50 dB
CD/MP3/WMA PLAYER SECTION	
Signal to noise ratio	> 50 dB
Frequency response	20 Hz ~ 20 KHz
GENERAL	
Power supply voltage	DC 12 Volts Negative Ground
Max current consumption	1 A
Max output level	2 V

SPECIFICATIONS	HN-AS20
Signal to noise ratio	< 70 dB
Frequency response	20 Hz ~ 20 KHz
Total harmonic distortion(THD)	< 0.1%
Supply voltage	DC 12 V
Maximum current consumption	500 mA
Operating temperature/ Humidity at non-condensing	0°~40°C at 95% humidity

Mixer Amplifiers

HN-D90/150

High Efficiency Class-D Mixer Amplifier

- Class-D technology enabled for higher efficiency and lower heat generating with risk free in-and-out compact design
- HN-D90 is of 90W rated power and HN-D150 is of 150W rated power
- Total 7 audio input with flexible volume adjustment
- Support Treble & Bass sound tailoring
- With 70V and 100V selectable loudspeaker line output
- With full amplifier protection and self restoring from failure
- Auto voltage balancing power supply input resolves the problem from unstably overvoltage and manage high fidelity sound reproduction at the same time



SPECIFICATIONS	90 W	150 W
Nominal output power (HN-D90)	90 W	
Nominal output power (HN-D150)		150W
Main power supply voltage	~100-120Vor~220-240V 50/60Hz(alternative)	
Power consumption (HN-D90)	<35W	
Power consumption (HN-D150)		<45W
Main power supply protection	T3.15AH 250V	
Speaker output	100V / 8Ω	
Frequency response	70Hz~150KHz (+1dB~-3dB)	
Signal to noise ratio	Line: >90dB (with A- Weight)	
Non-linear distortion	<0.5% (at 1/3 rated power, 1KHz)	

Output method	High impedance / Low impedance output (alternative) 8Ω Rated impedance output (Low impedance) 90W: 100V(111.1Ω) Rated voltage output (High impedance)	150W: 100V(66.67Ω) Rated voltage output (High impedance)
Bass/Treble adjust range	BASS:100Hz(±10dB), TREBLE:12KHz(±10dB)	
Number of output channels	1	
Mute function	MIC1 INPUT, MIC2/MIC3/AUX1/ AUX2 reduce0~30dB	
Function control	5×Input volume adjusters,1×master volume adjuster, 1×bass adjuster, 1×treble adjuster, 1×mute adjuster 1×power switch, 1× AC input voltage switch 1×Hi/Lo output switch, 1×0dB/6dB input sensitivity switch	
Operating conditions	95% humidity,0℃~+40℃ (0~104°F) (no condensation)	
Storage temperature	-10℃~+55℃(14°F~131°F)	
Cooling method	Passive cooling	
Product dimensions (width×height×depth)	366×89×483 mm	
Package dimensions (width×height×depth)	435×180×520 mm	
Net weight (HN-D90)	6.5kg	
Net weight (HN-D150)		7kg
Gross weight (HN-D90)	8.15kg	
Gross weight (HN-D150)		8.65kg

Mixer Amplifiers

HN-S600P Mixer Amplifiers

- 3 microphones and 2 auxiliary inputs
- 1 line out
- 100V and 4-16 Ohms transformer-isolated 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



SPECIFICATIONS	HN-S600P
Rated Power Output	260 W
Output Regulation	<3dB (no load to full load)
Speaker Output	39Ω(100V) Low impedance:4-16Ω
Input	MIC 1,2,3 600Ω, 5-8mV, unbalanced phone jack; AUX 1,2:10KΩ,300mV, unbalanced, RCA jack
Output	600Ω,1.2V
Frequency response	60-15000KHz, +/-3dB
THD	<0.5% at 1KHz (1/3 Rated output)
S/N ratio	>72dB
Tone Controls	BASS:100Hz(+/- 10 dB), TREBLE:12KHz(+/-10dB)
Controls	5 input gain, 1treble,1 bass, 1 mute and power switch
Cooling	Internal 12 VDC fan, extensive heat sinking
Indicators	Power indicator LED, LED output level meter 0,2,4,6,8,10dB
Protection	AC Fuse: 8A Current limiter, short circuit and thermal protection circuits
Power Consumption	350W
AC Power Supply	220V, 50/60Hz
Dimensions	89(H)×483(W)×366(D)mm
Built-in Dimensions	2 U rack 19 inch
Carton Dimensions	185(H)×520(W)×435(D)mm
Net weight	13.68kg
Gross weight	15.32kg
Color	Panel:steel plate,black Case:steel plate,black

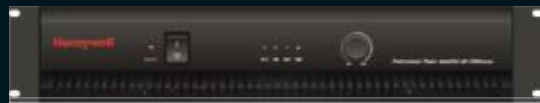




08

Power Amplifiers

Commercial-grade power amplifiers efficiently deliver up to 1000 watts of clean, reliable audio for the most demanding public address and voice alarm applications.



Power Amplifiers

HN-A240BP

Power Amplifiers

- 100V and 4 Ohms transformer isolated 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



SPECIFICATIONS	HN-A240BP
Rated Power Output	240 W
Input Sensivity	1.0+0.1Vms/10k ohms
Gain Control	-12dB~0dB
High-pass Filter	-3dB @ 100Hz
Frequency Response	80Hz~20KHz
S/N ratio	>90 dB
THD (1kHz@1/2 Rated Power)	<1.0 %
Output Voltage and Impedance	4Ω/31V 41Ω/100V
Cooling	FAN
Operating Temperature /Humidity	0~40 degree at 95% at non-condensing
Dimensions (Width/Height/Depth)	88 (H) × 482 (W) × 377 (D) mm
Net Weight	17Kg
Power Consumption	500W
AC Power Supply	110V/60Hz or 230V/50Hz
DC Power Supply	DC 24V (21.5V- 28.5V)

HN-A480

Power Amplifiers

- 100V 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



SPECIFICATIONS	HN-A480
Rated Power	480W
Speaker Output	4~16Ω Low-Z output 480W,100V (21.7Ω)
Line Input	<1 V, unbalanced
Line Output	1V unbalanced
Damping Factor	200
Frequency Response	60 Hz~15 KHz (± 3 dB)
THD	<0.5 % at 1 KHz, 1/3 rated power
S/N	>80dB
Controls	Volume control and power switch
Cooling	DC12V fan, extensive heat sinking
Indicators	Power, Clip, Signal, Protect, and Temp
Protection	AC Fuse × 15 A AC FUSE×1, Current limiter, short circuit and thermal protection circuits
Power Cable	(3×1.5mm²)×1.5M(standard)
Power Requirement	AC 220 V / 50 Hz
Power Consumption	620W
Dimensions	89 (H) × 483 (W) × 366(D)mm
Packing Dimensions	185 (H) × 520(W) × 435(D)mm
Net Weight	19.3Kg
Gross Weight	17.66Kg

Power Amplifiers

HN-A660

Power Amplifiers

- 100V 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



SPECIFICATIONS	HN-A660
Rated Power	660W
Speaker Output	4~16Ω Low-Z output 660W, 100V (15.1Ω)
Line Input	<1 V, unbalanced
Line Output	1V unbalanced
Damping Factor	200
Frequency Response	60 Hz~15 KHz (± 3 dB)
THD	<0.5 % at 1 KHz, 1/3 rated power
S/N	>80dB
Controls	Volume control and power switch
Cooling	DC12V fan, extensive heat sinking
Indicators	Power, Clip, Signal, Protect, and Temp
Protection	AC Fuse × 15 A AC FUSE×1, Current limiter, short circuit and thermal protection circuits
Power Cable	(3×1.5mm ²)×1.5M(standard)
Power Requirement	AC 220 V / 50 Hz
Power Consumption	880W
Dimensions	89 (H) × 483 (W) × 366 (D)mm
Packing Dimensions	185 (H) × 520(W) × 435(D)mm
Net Weight	21.36Kg
Gross Weight	19.74Kg

HN-A1000

High Power Amplifiers

- 100V 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



SPECIFICATIONS	HN-A1000
Rated Power	1000W
Speaker Output	4~16Ω Low-Z output 1000W, 100V (10Ω)
Line Input	0.775 V (0dBu), unbalanced
Line Output	0.775 V (0dBu), unbalanced
Frequency Response	50 Hz~18 KHz (± 3 dB)
THD	<1 % at 1 KHz, 1/3 rated power
S/N	>85dB
Indicators	Power, Clip, Signal, Protect, and Temp
Protection	AC Fuse × 25 A AC Fuse ×1 Current limiter, short circuit and thermal protection circuits
Power Cable	(3×1.5mm ²)×1.5M
Power Requirement	AC 220 V 50 Hz
Power Consumption	1836W
Dimensions	133 (H) × 483 (W) × 486(D)mm
Packing Dimensions	225(H) × 610 (W) × 585(D)mm
Net Weight	34Kg
Gross Weight	32Kg

09

EVAC
LITE Sound of Safety

Voice Alarm Controller

A high performance plug and play solution with its modern innovative design and extensive installation friendly features for Public address & Voice Evacuation applications in small to mid-size applications like offices, commercial buildings, retail outlets, food malls, etc.



Voice Alarm Controller

Evaclitepkg

8 Zone, Voice Alarm controller with built-in USB, MP3, AM/FM player (with 8 zone paging station)

- 8 Zone Paging system with pre-recorded messages for voice evacuation
- Adopts LCD screen for easy operation
- Simple integration with Fire Alarm Panels to activate EVAC/ALERT pre-recorded messages.
- Supports timing broadcast, manual broadcast, external timing activation broadcast and alarm activation broadcast.
- Provides up to 4 sets of scheduling options
- Built-in MP3 (USB) and FM/AM functions
- Built-in loudspeaker for performing broadcast monitoring, with special monitoring volume control
- 1 line input
- 1 microphone input, provides mix and emergency paging output modes.
- Provides 8 broadcast zone output function, the peak power of each zone is 400W, and the total power of the all 8 zones is 1000W
- 1 alarm activation input and 1 timing activation input
- 1 alarm activation output



SPECIFICATIONS	EVACLITEPKG
Line Input	10K ohms 775mV, unbalanced
Microphone Input	600 ohms 10mV, unbalanced
Remote Paging Microphone with zone selection	Signal Input frequency: 100Hz~10KHz Signal Input Sensitivity: 5V RMS Communication: RS485 mode, Transmission distance: 1000m
Line Output	775mV
Frequency Response	20Hz~20KHz
Total Harmonic Distortion(THD)	<0.01% at 1KHz
Signal Noise Ratio(S/R)	>70 dB
Alarm Activation Input	0V Short Circuit Signal
Timing Activation Input	0V Short Circuit Signal
Alarm Activation Output	0V Short Circuit Signal
Power Output Capability	5A
Constant Voltage Input	100V
Subarea Channel Power	≤500W (single channel, Total power ≤1000W)
Frequency Range	FM : 87.5MHz ~ 108MHz AM : 531KHz ~ 1710KHz
Power Supply Voltage	AC 220V ± 10% 50/50Hz
Rated Power	20W
Packing Dimension (W×H×D)	540×577×250mm
Gross Weight	10.6Kg





10



IP based Digital Public Address and Voice Alarm System

Looking for a highly flexible, enjoyable and creditable integrated public address and voice alarm solution for your new building? Honeywell X-618 Digital Public Address and Voice Alarm System is exactly what you need– the redefined Xcellent Quality, Xpert Design and Xtra Benefits.





Digital Public Address and Voice Alarm System

makes a difference

Thanks to Honeywell's ONE Life Safety initiatives, X-618 can make a difference by seamlessly integrating with Honeywell fire alarm systems to form a comprehensive life safety solution that provides the best protection of human lives in all situations. With Honeywell's Advanced System Diagnosis ASD technology, SIM loudspeaker line supervision technology and RiskFree dynamic backup technology, not only can they significantly strengthen the system's robustness but also cut down on costs from early procurement to later maintenance. X-618 also complies with EN54-16, the European Standard for Voice Alarm System.

improves your work efficiency

X-DCS2000/EN Digital Integrated System Manager integrates all the system functions except amplifier into one and is housed in a 2U classical design. However, the compact size doesn't compensate for its capability to extend unlimitedly via Ethernet. A complete and synchronized audio transmission is achieved by adopting Honeywell's superior SONIC Digital Audio Transmission Technology based on TCP/IP protocol. Further with X-SMART network integrated management solution, users are allowed to improve internal resource utilization and efficiency of operational management. Last but not least, Honeywell's OneClick technology, allows users to pre-set buttons freely on the touch screen according to their preferences.

lowers your cost

Save more money with technologies. 1. Lower equipment procurement cost by replacing two individual PA and VA systems with one X-618. Furthermore, Honeywell SIM loudspeaker line supervision technology allows the usage of loudspeakers without DC blocking capacitor that is required for traditional VA system. 2. Lower cable cost. By installing the 2-in-1 X-618 system and using the existing Ethernet, material and labor cost can be cut down by up to 50%. Last but not least, X-618 can save you more cabinet space by its compact and light design. 3. Lower maintenance cost. The consequence of system failure can be extremely costly and devastating. Honeywell ASD system diagnosis and RiskFree dynamic backup technologies together ensure high level of system availability in case of any accident. In fact, users can save much more by keeping it working 24/7.

delivers superior sound quality

Sound quality determined by several key factors, among which the ability of power amplifier has the most concern. X-618 is equipped with X-DA multi-channel digital power amplifier series which is developed based on pro-audio design concepts that enable superior acoustic performance. Featuring industry-leading lower energy consumption level, X-DA series are able to offer wider frequency response range, lower S/N ratio and better sound quality. Moreover, Honeywell's AVC (Auto Volume Control) technology, can adjust the volume automatically according to the ambient noise level to achieve the optimal intelligibility of sound reproduction in any circumstance (HN-D32N noise detector is required).

upgrades user experience

X-NPMI Configurable Network Paging Console is the first system in the market that offers a 4.3-inch LCD touch screen. The novel appearance, simplified UI, multi-functionality, rich information display and well considered mistake proof design enhance remote control's convenience highlighting human factors of the using experience. To avoid disaster, the OneClick emergency call button can enable faster response to an emergency.

Digital Public Address and Voice Alarm System

X-DCS2000/EN

Digital Integrated System Manager

- Highly integrated
- Easy-access preset buttons
- Built-in fault diagnosis
- Automatic volume control
- PTT emergency microphone (Optional)
- Extendable zones connections via software configuration



SPECIFICATIONS	X-DCS2000/EN
Power Supply	
Main power supply	~100 - 240 V, 50/60 Hz
Backup power supply	DC 21.5 V - 28.5 V
Main power fuse	T2 AL 250 V
Max. input power	120 W
Rated power	50 W
Audio Input	
Auxiliary input	0 dB
Input impedance	20 K Ω
Frequency response	60 Hz - 16 KHz
PTT microphone input	-51 dB
SNR	> 85 dB

SPECIFICATIONS	X-DCS2000/EN
Audio Output	
Audio output channels	4
Output signal	0 dBu
Record output	0 dBu
AVC Input	
Channels	4
Input signal	50 dB / 0 dB, configured by switch
Input impedance	20 k Ω
Phantom power	DC 24V, configured by switch
Frequency response	60 Hz - 16 KHz
SNR	> 65 dB
Loudspeaker Circuit	
Output channels	8, with circuit fault detection function
Max. output load	250 W
Trigger Input / Output	
Trigger input ports	8
Trigger output ports	8 (NO, NC and COM)
Max. working voltage	AC 250 V / DC 30 V
Max. working current	2.5 A
Others	
Monitoring loudspeaker	10 W / 8 W
Ethernet speed	10 M / 100 M
Ethernet interface number	4
Storage space	1 GB
Work Condition	
Humidity	< 95 %, non condensing
Operating temperature	-10 °C ~ +55 °C
Storage temperature	-40 °C ~ +70 °C
Specification	
Dimension (W×H×D)	482 × 88 × 420 mm
Mount dimension (W×H×D)	580 × 235 × 552 mm
Net weight	9.3 kg
Gross weight	12.5 kg



Digital Public Address and Voice Alarm System

X-DA2250EN

High Efficiency Power Amplifier with 24 VDC Backup Power Supply

- Two channel 250W efficiency Class-D amplifier
- Automatic protection
- Fault detection
- Effective ventilation using forced air cooling fan
- CE complied
- With 24 VDC backup power supply



SPECIFICATIONS	X-DA2250EN
Rated power	2 × 250 W
Main power supply voltage	~ 100 - 240 V, 50/60 Hz
DC Backup power operating voltage	21.5 V - 28.5 V DC

X-DA1500EN

High Efficiency Power Amplifier with 24 VDC Backup Power Supply

- One channel 500W efficiency Class-D amplifier
- Effective ventilation using forced air cooling fan
- Automatic protection
- Fault detection
- CE complied
- With 24 VDC backup power supply



SPECIFICATIONS	X-DA1500EN
Rated power	1 × 500 W
Main power supply voltage	~ 100 - 240 V, 50/60 Hz
DC Backup power supply operating voltage range	21.5 V - 28.5 V DC

SPECIFICATIONS	X-DA2250EN
Power consumption	< 700 W
Main power supply protection	T10 AL 250 V
Speaker output voltage	100 V / 70 V
Frequency response	70 Hz -18 KHz (+1 dB ~ -3 dB)
Input sensitivity	1.414 V RMS
Impedance	20 KΩ
SNR	> 100 dB(withA-Weight)
Non-linear distortion	<0.05 % (at 1/3 rated power, 1 kHz)
Indicators	Power indicator light Main power fault light Backup power fault light Signal lights Peak clipping lights Equipment protection lights
Number of channels	2
Operating conditions	95 % humidity, 0 °C ~ +40 °C (0 ~ 104 °F) (no condensation)
Storage temperature	-10 °C ~ +55 °C (14°F ~ 131°F)
Cooling method	Air cooling
Product dimensions (W×H×D)	416 × 88 × 483 mm
Package dimensions (W×H×D)	489 × 186 × 568 mm
Net weight	11.7 kg
Gross weight	14.8 kg

SPECIFICATIONS	X-DA1500EN
Power consumption	< 700 W
Main power supply protection	T10 AL 250 V
Speaker output voltage	100 V / 70 V
Frequency response	70 Hz -18 KHz (+1 dB ~ -3 dB)
Input sensitivity	1.414 V RMS
Impedance	20 KΩ
SNR	> 100 dB(withA-Weight)
Non-linear distortion	<0.05 % (at 1/3 rated power, 1 kHz)
Indicators	Power indicator light Main power fault light Backup power fault light Signal lights Peak clipping lights Equipment protection lights
Number of channels	1
Operating conditions	95 % humidity, 0 °C ~ +40 °C (0 ~ 104 °F) (no condensation)
Storage temperature	-10 °C ~ +55 °C (14°F ~ 131°F)
Cooling method	Air cooling
Product dimensions (W×H×D)	416 × 88 × 483 mm
Package dimensions (W×H×D)	489 × 186 × 568 mm
Net weight	10.8 kg
Gross weight	13.9 kg

Digital Public Address and Voice Alarm System

X-DA4125EN

High Efficiency Power Amplifier with 24 VDC Backup Power Supply

- Four channels 125W efficiency Class-D amplifier
- Effective ventilation using forced air cooling fan
- Automatic protection
- Fault detection
- CE complied
- With 24 VDC backup power supply



SPECIFICATIONS	X-DA4125EN
Rated power	4 × 125 W
Main power supply voltage	~ 100 - 240 V, 50/60 Hz
DC Backup power supply operating voltage range	21.5 V - 28.5 V DC
Power consumption	< 700 W
Main power supply protection	T10 AL 250 V
Speaker output voltage	100 V / 70 V
Frequency response	70 Hz -18 KHz (+1 dB ~ -3 dB)
Input sensitivity	1.414 V _{RMS}
Impedance	20 KΩ
SNR	> 100 dB(withA-Weight)
Non-linear distortion	<0.05 % (at 1/3 rated power, 1 kHz)
Indicators	Power indicator light Main power fault light Backup power fault light Signal lights Peak clipping lights Equipment protection lights
Number of channels	4
Operating conditions	95 % humidity, 0 °C ~ +40 °C (0 ~ 104 °F) (no condensation)
Storage temperature	-10 °C ~ +55 °C (14°F ~ 131°F)
Cooling method	Air cooling
Product dimensions (W×H×D)	416 × 88 × 483 mm
Package dimensions (W×H×D)	489 × 186 × 568 mm
Net weight	11.4 kg
Gross weight	15.5 kg

X-NPMI

Configurable Network Paging Console

- 4.3-inch color LCD touch screen
- Intuitive and simple user interface
- Detachable gooseneck microphone
- Built-in monitor loudspeaker
- Digital audio processing
- Flush mount desktop installation available



SPECIFICATIONS	X-NPMI
Power voltage	DC 12 V
Audio input	0 dB
Input impedance	10 KΩ
Frequency response	60 Hz -16 KHz
Microphone input	-51 dB
Audio port	0 dB
Monitoring speaker	2 W / 8Ω
Monitoring sound pressure level	> 65 dB, <115 dB (1m right in front of the audio source)
Sampling rate	44.1 KHz, 16 Bit
Operating temperature	-10 °C+ 55 °C
Storage temperature	-40 °C+ 70 °C
Relative Humidity	< 95 %,non condensing
Dimension (W×H×D)	210 × 55 × 100 mm
Package dimension (W×H×D)	403 × 133 × 268 mm
Net weight	0.78 Kg
Gross weight	1.6 Kg

Digital Public Address and Voice Alarm System

X-NRI/EN

Network Resource Interface

- Provides 4 AUX balanced audio input for digitalization of the external analog audio source and routing to the network
- Built-in 4G SD card as internal audio source
- 4 Ethernet interfaces allow communication of multiple X-DCS2000/EN
- Has 32 x dry contact control inputs and input faults can be monitored
- Has 2 x RS-485 communication terminals for integration with Fire Panel via protocol



SPECIFICATIONS	X-NRI/EN
Main power supply	-100 - 240 V, 50/60 Hz
Backup power supply	DC 21.5 V 28.5 V
Main power fuse	T2 AL 250 V
Rated power	15 W
Auxiliary input	
Input channels	4
Input signal	1 V 0 dBV
Input impedance	20 kΩ
Frequency response	60 Hz -16 kHz
S/N	> 85 dB
Balanced Input	
Input channels	4
Input signal	14 mV (-37 dBV) / 1 V(odBV)
Input impedance	20 kΩ
Phantom power supply	DC 24 V
Frequency response	60 Hz -16 kHz
S/N	> 65 dB
Control Terminal	
Trigger inputs	32 inputs (can be monitored)
Trigger outputs (reserved)	8 outputs (NO, NC and COM)
Max working voltage	AC 250 V / DC 30 V
Max working current	2.5 A
Others	
Network interface	2.5 A
Number of ports	4
Audio Storage	4 GB SD card 1 GB Flash
Working environment	
Humidity	95 % (no condensation)
Operation temperature	-10°C ~ +55°C
Storage temperature	-40°C ~ +70°C
Specification	
Product dimensions (W×H×D)	482 × 88 × 420 mm
Package dimensions (W×H×D)	580 × 235 × 552 mm
Net weight	7.3 kg
Gross weight	10 kg

X-SMART

Integrated System Management Software

- Can load and operate on E-maps. Maps can be displayed in three layers for more details
- Can monitor all the equipments. Can provide faulty alarms and indicate error locations
- Administrator can add/remove user numbers and configure access controls
- Provide interfaces for third-party Text-to-Speech software and translate text inputs into audio playback
- Can play audio sources saved on the server machine in any zone on the system network
- X-SMART PAC, integrated system management software package tailored made for small to mid-size project, is also available



Digital Public Address and Voice Alarm System

X-MAP04 Audio Source

X-MAP04 Integrated Audio Player integrates audio sources including CD, MP3, FM and DAB. A high end car audio stereo CD player is installed to provide a stable and reliable CD audio source. DAB technology is exclusively specially introduced to provide various audio source selections to the system. X-MAP4 can also read audio files from most of the typical memory devices via the USB port and SD card slot. Two line outputs on the rear panel enable playing music to two zones simultaneously.

- USB port
- SD card slot
- DAB/FM signal input
- DAB/FM output
- CD/USB/SD output
- Power port
- RS485 remote control interface



SPECIFICATIONS	X-MAP04
Power voltage	~ 220 V, 50 Hz
Power consumption	<13 W
Input	DAB / FM 50 antenna terminal USB port, SD port
Output	Stereo RCA output DAB / FM tuner (910 mV) Stereo RCA output CD / USB / SD (910 mV)
Channel	2
Dimension (W×H×D)	482 × 44 × 252 mm
Package dimension (W×H×D)	520 × 142 × 351 mm
CD-DA Audio	
Output level	850 mV
Frequency response	±1 dB
Distortion	0.08 %
SNR	80 dB
Channel separation	70 dB
MP3/WMA audio	
Frequency response	17 Hz - 127 Hz(-1 dB +2 dB) 127 Hz-10 KHz(±1 dB) 20 KHz(±2 dB)
Distortion	0.15 %
SNR	80 dB
DAB	
Band frequency range	174 MHz - 240 MHz
SNR	60 dB
Distortion	0.2 %
Channel separation	55 dB
Input impedance	50
FM	
Band frequency range	87.5 MHz - 108 MHz
SNR	48 dB
Distortion	1 %
Channel separation	25 dB



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Accessories



Volume Controllers

HN-VC06/30/60/120 Volume Controller

- Industrial design and stylish appearance
- Built-in 24V DC forced relay
- Selectable power: 6W, 30W, 60W, 120W
- 5 degree volume control levels
- Applicable to 3-wire, 4-wire and 6-wire systems
- Designed to mount on standard 86 × 86 electrical back box



SPECIFICATIONS	HN-VC06/30/60/120
HN-VC06	
Dimension (L×W×D)	86 × 86 × 52.5 mm
Rated power	6 W
HN-VC30	
Dimension (L×W×D)	86 × 86 × 67.5 mm
Rated power	30 W
HN-VC60	
Dimension (L×W×D)	86 × 86 × 75.5 mm
Rated power	60 W
HN-VC120	
Dimension (L×W×D)	86 × 86 × 75.5 mm
Rated power	120 W
Other specifications	
Input voltage	100V
Frequency response	50 Hz - 20 KHz
Attenuation	5 × 2 dB + off
Current consumption	20 mA, 24V DC
Color	White (RAL 9010)

HN-D32N Noise Detector

- Collect ambient noise from built-in microphone
- Elegant appearance
- Easy field installation with spring loaded clips
- 2-core shielded cable
- Transmission distance > 200 meters



SPECIFICATIONS	HN-D32N
Direction	Heart shape
Frequency range	60 Hz - 18 KHz
Max sound pressure level	152 dB SPL
Sensitivity	2.4 mV
Impedance	2 kΩ
Color	White(RAL 9010)
Dimensions	Φ 200 × 118 mm
Hole cut-out size	Φ 140 mm



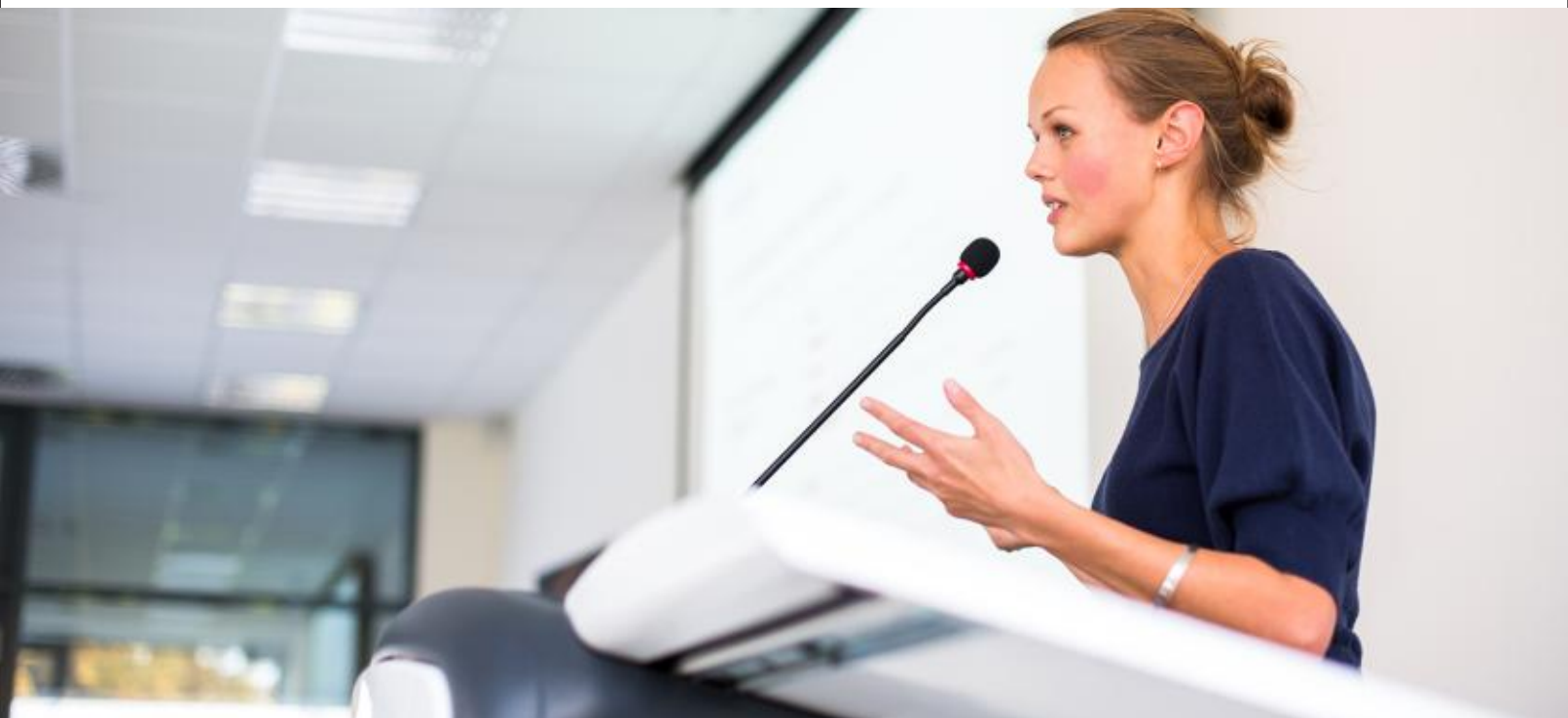
Microphone

HN-EDA91 Desktop Microphone

- High quality, professional microphone
- Flexible goose neck
- ON/OFF switch
- XLR connector



SPECIFICATIONS	VALUE
Capsule Type	Condenser, two capsules
Polar Pattern	Uni-direction
Frequency Response	100-7500Hz
Sensitivity	-29+/-dB
Impedance	150ohm(unbalance)
Cable	10m
Power Requirements	3V DC/48V phantom power
Product Size	13 × 11 × 41.5cm
Net Weight	0.56kg





Public Address & Voice Alarm System

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