

TAIDEN®

Power Amplifier and Speaker



HPA-160A/02	Digital Audio Power Amplifier (2 × 160 W, constant pressure and fixed resistance, support central control, built in DSP audio processor, support web control and management (adjustable 5-band parametric EQ of microphone, PEQ, GEQ, DRC of output signal, amp output delay, support saving of scenes)).....	2
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HPA-160A/02 Digital Audio Power Amplifier



Features

- Less heat, low working temperature, life span and reliability will be significantly improved.
- Energy saving and environmental protection, saving operating costs.
- Digital power amplifier + switching mode power supply, high efficiency, small size, light weight.
Output power: 2x200 W (4 Ω/ 6 Ω)
2x160 W (8 Ω)
1x400 W (bridge/ constant voltage)
Frequency response: 20 Hz~20 kHz (8 Ω, ±1 dB)
THD: ≤0.04%
S/N: ≥ 95 dB (A weighted, 20 Hz ~ 20 kHz)
- Wide operating voltage range: 100-240 VAC (±10%)
- Three modes: mono/ stereo/ bridge
- Two SPEAKON sockets for loudspeaker
- 1 balance Line In + 1 unbalance Line In, and 1 Line Out (all for 6.4 mm TRS jack)
- 1 RJ45 interface for connecting to Ethernet
- 1 USB for external digital audio input
- With RS232 interface for connecting to central control system
- The user can access the IP address of power amplifier from web browser to set parameters and view device status, e.g. compressor, equalizer, DRC, etc.
- Perfect protection functions: short circuit protection, over temperature protection, DC protection, etc.

Technical Specifications

Electrical

Power supply.....	100-240 VAC, 50/60 Hz
Rated power.....	2x200 W (4 Ω/ 6 Ω) 2x160 W (8 Ω) 1x400 W (8 Ω, Bridge) 1x400 W (4 Ω, Bridge) 1x400 W/100 V 1x400 W/70 V
SNR.....	≥95 dB
Frequency response.....	20 Hz ~20 kHz (8 Ω, ±1dB)
Input impedance.....	20 kΩ (Balanced) 10 kΩ (Unbalanced)
THD+N.....	≤0.04%
Crosstalk suppression.....	≥70 dB

Mechanical

Dimensions (h x w x d).....	62 x 179 x 252 mm
Weight.....	1.7 kg
Color.....	Black (PANTONE 419 C)

Ordering Information

HPA-160A/02.....	Digital Audio Power Amplifier (2 × 160 W, constant pressure and fixed resistance, support central control, built in DSP audio processor, support web control and management (adjustable 5-band parametric EQ of microphone, PEQ, GEQ, DRC of output signal, amp output delay, support saving of scenes))
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HCL-1090 Line Array Column Loudspeaker



Features

- Compact design, natural and high- quality sound
- Built-in 3 2.5-inch full-frequency drivers
- Wide frequency range and enhanced performance:
- Characterized with wider bandwidth, has the lowest frequency at 80 Hz. Constant resistance (6 Ω) power mode for higher output level
- Coverage pattern: Horizontal: 150°, Vertical: 30°
- Professional line array sound column, with uniform sound field coverage, higher transmission gain and hardly howling. Solve the sound reinforcement requirement in the environment with sound defect
- Enclosure designed IP-54 rate, per IEC529 allows use in a wide of adverse conditions
- Fiberglass reinforced ABS cabinet with UV resistant
- Wall-mount (with fixed plate) or stand-mount

Overview

HCL-1090 Line Array Column Loudspeaker, composed of three full-range drivers, features natural and high-quality sound in a compact and exquisite enclosure. It offers rich and nice middles, and crisp and sweet highs. Thanks to its wide and even sound field, HCS-1090 can be used for various applications such as in small conference room and classroom.

The internal speaker units arrayed vertically in close proximity form a linear sound source, which guarantees better coverage and less susceptibility to feedback at a longer throw distance. It characterized with wider bandwidth, has the lowest frequency at 80 Hz. Constant resistance mode (6 Ω) for higher output level.

Enclosure designed IP-54 rate IEC 529 allows use in a wide range of adverse conditions such as wet, dirty or corrosive environments.

Specifications

Components	Three 2.5 inch full-range
Frequency response	80 Hz ~ 18 kHz (-10 dB)
Coverage pattern	Horizontal: 150° Vertical: 30°
Sensitivity (2.45 V@1 m)	90 dB
Impedance	6 Ω
Power capacity (6 Ω)	60 W (240 W peak), 2 hrs 36 W (144 W peak), 100 hrs
Max. SPL	105 dB
Enclosure	Fiberglass reinforced ABS cabinet, painted aluminum grille
Outdoor capability	IP-54 rated, per IEC529, moisture- and water-proof, dust-proof, water-proof cable gland
Colors	Black or White
Insert	Three M6 insert points on back panel
Mounting	Wall-mount (with fixed plate) or stand-mount
Dimensions (h x w x d)	400x102x160 mm
Weight	2.2 kg
Accessories	Fixed plate

Ordering Information

HCL-1090_B.....	Line Array Column Loudspeaker (6 Ω, 60 W, black, with adjustable installation brackets or fixed ones)
HCL-1090_W.....	Line Array Column Loudspeaker (6 Ω, 60 W, white, with adjustable installation brackets or fixed ones)

HCL-1200B Line Array Column Loudspeaker



Features

- Compact design, natural and high- quality sound
- Built-in 8 2.5-inch full-frequency drivers
- Wide frequency range and enhanced performance:
- Characterized with wider bandwidth, has the lowest frequency at 80 Hz. Constant resistance (6 Ω) power mode for higher output level
- Switchable Speech/Music mode
- Coverage pattern: Horizontal: 150°, Vertical: 20°
- Professional line array sound column, with uniform sound field coverage, higher transmission gain and hardly howling. Solve the sound reinforcement requirement in the environment with sound defect
- Enclosure designed IP-54 rate, per IEC529 allows use in a wide of adverse conditions
- Fiberglass reinforced ABS cabinet with UV resistant
- Wall-mount (with swivel (pan)/tilt wall bracket) or stand-mount

Overview

HCL-1200B Line Array Column Loudspeaker, composed of eight full-range drivers, features natural and high-quality sound in a compact and exquisite enclosure. It offers rich and nice middles, and crisp and sweet highs. Thanks to its wide and even sound field, HCS-1200B can be used for various applications such as in conference room, lecture hall, ballroom, auditorium and classroom.

The internal speaker units arrayed vertically in close proximity form a linear sound source, which guarantees better coverage and less susceptibility to feedback at a longer throw distance. A multi-way full range loudspeaker characterized with wider bandwidth, has the lowest frequency at 80 Hz. Default constant resistance mode (6 Ω) for higher output level.

HCL-1200B is versatile by accommodating different applications with enhanced mid-range output in Speech mode and more flat response in Music mode.

Enclosure designed IP-54 rate IEC 529 allows use in a wide range of adverse conditions such as wet, dirty or corrosive environments.

Specifications

Components	Eight 2.5 inch full-range
Frequency response	80 Hz ~ 18 kHz (-10 dB)
Coverage pattern	Horizontal: 150° Vertical: 20°
Sensitivity (2.45 V@1 m)	93 dB (speech mode) 89 dB (music mode)
Impedance	6 Ω
Power capacity (6 Ω)	200 W (800 W peak), 2 hrs 120 W (480 W peak), 100 hrs
Max. SPL	120 dB (speech mode) 117 dB (music mode)
EQ	Speech v. Music: 2.5-4 dB (@2-5 kHz)
Enclosure	Fiberglass reinforced ABS cabinet, painted aluminum grille
Outdoor capability	IP-54 rated, per IEC529, moisture- and water-proof, dust-proof, water-proof cable gland
Colors	Black or White
Insert	Eight M6 swivel (pan)/tilt insert points on back panel
Mounting	Included swivel (pan) / tilt wall bracket provides continuously variable ±80 degree left-right swivel aiming, continuously adjustable ±15 degree tilt, as well as 5 degree fixed increment points within the range.
Dimensions (h x w x d)	620x102x155 mm
Weight	5.3 kg
Accessories	Swivel (pan)/tilt wall bracket

Ordering Information

HCL-1200B_B	Line Array Column Loudspeaker (6 Ω, 200W, black, with adjustable installation brackets or fixed ones, extra charge of USD 10 for each ceiling mount)
HCL-1200B_W	Line Array Column Loudspeaker (6 Ω, 200W, white, with adjustable installation brackets or fixed ones, extra charge of USD 10 for each ceiling mount)

HPA-2240 Wall Mounted Speaker



Features

- Unique and design
- Can be installed vertically or horizontally
- Color: white/black

Technical Specifications

Electrical

Frequency response.....	65 Hz to 20 kHz
Impedance.....	8 Ω
Rated power.....	40 W
Sensitivity.....	90 dB

Mechanical

Mounting.....	Wall-mounted
Dimensions (h x w x d).....	290 x 215 x 190 mm
Weight.....	3.4 kg

Ordering Information

HPA-2240_W.....	Wall Mounted Speaker (8 Ω, 40 W, white)
HPA-2240_B.....	Wall Mounted Speaker (8 Ω, 40 W, black)