

Uncompromising Performance, Unequalled Versatility

Self-powered PowerNet PN and non-powered PNX Series loudspeakers unite advanced technology and application-driven engineering to bring live sound closer to the ultimate reference point: reality. Cutting edge driver technology and unique innovations such as our Complex Conic horns deliver natural sounding music and intelligible speech. Advanced options like intelligent onboard amplification and RHAON - the Renkus-Heinz Audio Operations Network - help you build sophisticated sound systems that are easy to use. Wherever audiences and operators demand superior performance and ease of use, PN/PNX loudspeakers are the choice for transparent, reference quality performance.

All PN and PNX series loudspeakers are handcrafted especially for you in our Foothill Ranch, California facility. Numerous custom options are available.

Applications

 Virtually any application where size is a critical issue and reference quality sonic performance is required.

Permanent Installations

- · Distributed systems in sports arenas and stadiums.
- Multi-channel A.V playback systems, live sound and music systems in clubs and disco's (with optional subwoofers).
- Side fill in all types of large sound reinforcement systems.

Portable Applications

- Stage monitors for theatrical and concert sound systems, sound reinforcement systems in houses of worship, performing art centers, etc.
- Rental A/V, systems, churches, schools, etc.



PN-1/PN-1R PowerNet Amplifiers

The PN-1, the heart of PowerNet performance, is a new kind of intelligent electronics system. It combines low feedback Class A/B amplification and comprehensive signal processing into a single compact unit. Crossovers and parametric EQ are integrated into the signal path. Loudspeaker specific processing senses when output levels are about to damage the system and limits them to safe levels.



The PN-1R adds RHAON, the Renkus-Heinz Audio Operations Network. RHAON empowers

you with full control over digital audio distribution, loudspeaker specific DSP and remote control/ monitoring -- all using standard Ethernet hardware and cable.

The PN-1R has dual analog inputs, dual CobraNet inputs and an AES3id serial input. The onboard DSP is easily configured using RHAON software; it includes eight bands of parametric EQ, high and low shelving filters, delay and input level control. Critical operating parameters such as signal clipping, amplifier output voltage and current, and temperature are continually monitored with automatic alert functions.

If you need a reference quality 12-inch 2-way system, order the PNX121M/A or the PN121M. If you need Ethernet-based audio operations networking, order the RHAON empowered PN121M-R.

PN/PNX Series

PNX121M

PN121M

Non-Powered

Self- Powered

12" Woofer - 2" HF
2-Way Complex Conic Loudspeakers

ACTIVE • POWERED • NETWORKED

MAXIMUM CONTROL • MAXIMUM CHOICE





- Reference Quality, High-Output 2-Way Systems
 Accurate full-range response from 55 Hz to 18 kHz; 129 dB peak SPL performance.
- Exclusive Complex Conic Design

Provides constant beamwidth/directivity without the problems of conventional rectangular horns; can be rotated 90° within the cabinet for wide or deep listening spaces.

- RHAON Renkus-Heinz Audio Operations Network
 Self-powered PN121M-R cabinets include RHAON for flexible digital signal distribution, loudspeaker management & control.
- PNX121M/A Non-Powered Loudspeakers
 Are active loudspeakers for "no-compromise" performance and greater versatility. Weather resistant models are available.
- PN121M PowerNet Self-Powered Loudspeakers
 Include the PN-1 Class A/B amplifier with loudspeaker specific signal processing and protection.
- Wide-Angle Coverage Dispersion: 120° by 60°.
- Great versatility

The PN121M, PN121M-R and PNX121M are available in either portable or fixed installation versions in a wide choice of finishes. The horns may be rotated 90° for either horizontal or vertical mounting applications. "Mirror Image" models are available on request.

TECHNICAL INFORMATION

Sensitivity: PN121M - 1.4 Volt for RPO

HF Driver: 2" SSD3302-8 driver, 8 Ohms:

program

PN121M-R: 1.0 Volt for RPO

PNX121M/A: 98 dB (1W/1m)

PNX121M/A: 129 dB peak

Max SPL

PN121M & PN121M-R: 126 dB peak

Power - PN121M & PN121MR: 115 V AC or 230 V AC, 50/60 Hz PNX121M/A: Highs; 150 W pgm at 8 Ohms

Lows; 600 W pgm at 4 Ohms

Connectors - PNX121M/A: Screw terminals & looping Neutrik 4-pin

SpeakOn style connectors

Finish: Black, white or custom color paint

Natural (unfinished) Weather Resistant

Freq. Response: 55 Hz to 18 kHz Hardware Options: 12-point univ. mtg. hdw.(Metric M10 threads)

Dispersion: 120° H by 60° V

U-bracket attachment points, Tripod socket

PN Weather Resistant Kit

Dimensions: 23" H x 14 1/4" W x 12 3/16" D 75 W RMS, 150 W program LF Driver: 12" model SSL12-9, 300 W RMS @ 4 Ohms, 600 W

(58.4 cm x 36.2 cm x 30.5 cm)

Weight

PN121M & PN121M-R: 77 Lbs (35 Kg) net

Enclosure: Multi-ply hardwood, perforated metal grille PNX121M/A: 67 Lbs (30.5 Kg) net

PN-1 AMPLIFIER

Power Rating: 300 W RMS @ 8 Ohms **Connectors**

Freq. Response: +0.0, -.5 dB, 20 Hz to 20 kHz *Input:* Looping XLR; female in, male out (pin 1 chassis, pin 2 +, pin 3 -)

THD Distortion: < 0.02% typical Power: IEC Power connector Hum & Noise: <100 dB (A weighted)

Damping: >100 Input: 10K Ohm balanced differential

Power: 90-136 VAC or 180-260 VAC 50/60Hz. 4 A @ 120 V, 2 A @ 240 V Idle current: 300 mA @ 120 V; 150 mA @ 240 V Sensitivity: 1.4 V for RPO **CMR** 74 dB Max inrush current: 10 A

Controls: Gain (screwdriver adjustable)

PN-1R RHAON EMPOWERED AMPLIFIER

The PN-1R amplifier is identical to the PN-1 except for the addition of the Digital Format: 16, 20 or 24 bit PCM; 48 or 96 kHz sample rate;

selectable Network Latency. RHAON Network Interface; additional capabilities include:

Protection: Soft & Peak Limiting, Excursion Control & Inputs: CobraNet: dual RJ45 connectors;accept

Thermal Regulation CAT 5 copper cable.

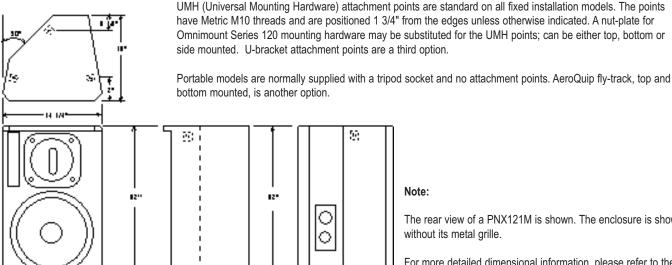
For additional details on the RHAON Audio Operations Network, refer to Analog: Phoenix connectors

www.renkus-heinz.com/Rhaon/Index.html.

Note: All analog inputs and outputs comply with AES Standard 48-2005 on interconnecting, grounding and shielding.

DIMENSIONAL INFORMATION

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Note:

The rear view of a PNX121M is shown. The enclosure is shown without its metal grille.

For more detailed dimensional information, please refer to the 2D and 3D drawing files on our website, www.renkus-heinz.com

