

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 the visceral impact obtainable only from high power subwoofers is required.

Permanent Installations

- Ideal for live music and speech reinforcement, club/disco systems and high power distributed systems.
- Churches, schools, performing art centers, night clubs, stadiums and arenas.

Portable Applications

- Ideal for live music and speech reinforcement, portable DJ systems and high output distributed systems.
- Rental A/V, DJ 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 Ethernet-based audio operations networking, order the single 12" RHAON empowered PN112-SUBR or the dual 12" PN212-SUBR.

PN/PNX Series

PN112 PN212

Single & Dual 12" PowerNet Subwoofers

PNX112 PNX212

Single & Dual 12" Externally-Powered Subwoofers

ACTIVE • POWERED • NETWORKED MAXIMUM CONTROL • MAXIMUM CHOICE



- Powerful Single and Dual 12-inch Subwoofers

 Provide high-impact sub-bass performance (128 dB peak SPL on the PNX112-SUB & 134 dB peak SPL on the PN212-SUB).
- RHAON Renkus-Heinz Audio Operations Network
 Self-powered PN112-SUBR and PN212-SUBR models include
 RHAON for flexible digital signal distribution, loudspeaker manage
 ment & control.
- PN112-SUB & PN212-SUB PowerNet Subwoofers
 Include the PN-1 Class A/B amplifier with loudspeaker specific signal processing and protection.
- PNX112-SUB & PNX212-SUB Non-Powered Subwoofers
 Same high performance as the self-powered PN series subs only
 externally powered. Weather resistant models are available.
- High Power, High Performance 12-inch woofers
 With long throw magnetic structures and dual channel air cooling.
- Great Versatility

 All DN series subweet

All PN series subwoofers are available in either portable or fixed installation versions in a wide choice of finishes.

TECHNICAL INFORMATION

Sensitivity
PN112 & PN212: 1.4 V for RPO
PN112R & PN212R: 1.0 V for RPO
PNX112SUB: 96 dB (1W/1m)

PNX212SUB: 99 dB)1W/1m)

Max SPL

PN112SUB & PN112SUBR: 126 dB program, 123 dB peak

PNX112SUB: 125 dB program, 128 dB peak

PN212SUB & PN212SUBR: 126 dB program, 129 dB peak

PNX212SUB: 131 dB program, 134 dB peak

Freq. Response: 40 Hz to 120 Hz

Power Rating: 300 W RMS @ 8 Ohms

Hum & Noise: <100 dB (A weighted)

Sensitivity: 1.0 V for RPO CMR 74 dB

THD Distortion: < 0.02% typical

Damping: >100

Freq. Response: +0.0, -.5 dB, 20 Hz to 20 kHz

LF Drivers

PN112SUB: Model SSL12-10, 12" woofer;

800 W pgm @ 4 Ohms

PNX 212SUB: Dual model SSL12-11, 12" woofer;

800 W pgm @ 8 Ohms (each)

Enclosure: Multi-ply hardwood, perforated metal grille

Power – All PN Series: 115 V AC or 230 V AC, 50/60 Hz

PNX112SUB: 800 Watts program at 4 Ohms

PNX212SUB: 1600 Watts program at 4 Ohms

Connectors-PNX Series: Screw terminals & looping Neutrik 4-pin

SpeakOn style connectors

Finish: Black, white or custom color paint

Natural (unfinished), Weather Resistant

Hardware Options: 12-point univ. mtg. hdw.; Tripod socket

PN Weather Resistant Kit

Dimensions:

PN112 Series: 20 1/2" H x 15 1/2" W x 22 1/2" D

(52.1 cm x 39.4 cm x 57.2 cm)

PN212 Series: 14 1/2" H x 32" W x 23 1/4" D

(36.8 cm x 81.3 cm x 59.1 cm)

Weight:

PN112SUB & PN112SUBR: 82 Lbs (37.2 Kg) net

PNX112-SUB: 72 Lbs (32.7 Kg) net

PN212SUB & PN212SUBR: 113 Lbs (51.3 Kg) net

PNX212SUB: 103 Lbs (45.7 Kg) net

PN-1 AMPLIFIER

Connectors

Input: Looping XLR; female in, male out (pin 1 chassis, pin 2 +, pin 3 -)

Power: EC Power connector

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

Max inrush current: 10 A

Max in PN-1R RHAON EMPOWERED AMPLIFIER

The PN-1R amplifier is identical to the PN-1 except for the addition of the

Input: 10K Ohm balanced differential

Controls: Gain (screwdriver adjustable)

RHAON Network Interface; additional capabilities include:

Inputs: CobraNet; dual RJ45 connectors;accept

CAT 5 copper cable.

AES/EBU; Phoenix connectors

Analog; Phoenix connectors

Digital Format: 16 or 24 bit PCM; 48 or 96 kHz sample rate; selectable

Network Latency.

Protection: Soft & Peak Limiting, Excursion Control &

Thermal Regulation

For additional details on the RHAON Audio Operations Network, refer to

Renkus-Heinz brochure # RH 606

Note: All analog inputs and outputs comply with AES Standard 45-2005 on interconnecting, grounding and shielding.

DIMENSIONAL INFORMATION

PN/PNX112SUB

PN/PNX212SUB

UMH (Universal Mounting Hardware) attachment points are standard on all fixed installation models. They are positioned 1 3/4" from the edges unless otherwise indicated. The PN112 series attachment points have 1/4-20 threads, the PN212 series have 3/8-16 threads.

Portable models are normally supplied with a tripod socket and no attachment points.



