

“No Compromises” Performance, Built-to-Order

Drawing from years of experience and industry leading technologies like Complex Conic waveguides, P Series loudspeakers are designed to meet the needs of today’s AV professionals, with a broad range of systems to provide effective solutions for every sound reinforcement challenge.

P Series loudspeakers incorporate the newest generation of Complex Conic horns, with the latest drivers to provide clean, natural sound and tight pattern control. Unlike conventional loudspeaker designs, Complex Conic horns provide consistent beamwidth over a wider frequency range, with the natural, transparent sound that Renkus-Heinz is known for.

The P2-10 offers the sonic and performance advantages of a Complex Conic horn in a multi-angle cabinet that maximizes the utility of the loudspeaker. The rotatable Complex Conic horn insures that, whatever the cabinet orientation,

Applications

- Main loudspeaker in small clubs, small theaters, bars or any other performance space needing high output and stellar fidelity from a very compact loudspeaker.
- Side fill and front fill applications where consistent directivity and superb sonics are necessary.
- Production and rental applications where the ultimate performance is needed in a compact, easy to transport package.
- Compact stage monitor, front fill or “sound on stick” applications

the smooth consistent directivity matches the needs of the user. And the horn is ideally sized for consistent directivity through the low-high crossover as well. Only Renkus-Heinz can combine this level of performance, fidelity and power in such a compact, easy to install or transport loudspeaker.

To insure consistent, unparalleled performance all P Series loudspeakers are self-powered with SA Series amplifiers, insuring no compromises in sonics, output or protection.

The integrated multi-channel SA650 amplifier precisely matches the power demands of the transducers, while providing all the necessary crossover, protection, and monitoring needed for long term reliability and confident use day in, day out, show after show.

Made in the USA and fully customizable with the options you’ve come to expect from Renkus-Heinz including multiple horn dispersions, mounting and mobile options, custom color and weather resistance.

P Series

P2-10-RN RHAON Empowered

P2-10-RD RHAON & Dante Redundant

10" LF + 3" voice coil HF Two-way, Multi-angle Loudspeaker



- **High Output**
Outstanding, full-range 60 Hz to 20 kHz performance in compact, three-way design.
- **Premium Woofer for High Output, Tight, Extended Bass and Seamless LF-HF Crossover**
Peak output of 130 dB, impressive bass and smooth response through crossover.
- **Premium HF Driver on a Rotatable Complex Conic Horn**
Provides smooth, low distortion performance to 20 kHz with no pattern distortion through crossover. The horn is rotatable for horizontal applications.
- **SA650 Bi-Amplifier**
SA650 amplifier offers high output, full protection limiting, analog, AES and optional Dante inputs.

P2-10 Specifications

| | P2-10-RN & P2-10-RD |
|-----------------------------|--|
| Connector: | 2 x XLR-3, In & Loop-out, Analog and AES 2 x RJ45, primary & secondary |
| Frequency Response: | 60 Hz to 20 kHz (+/- 3dB) |
| Sensitivity: | 1.0 volt for rated output, analog |
| Calculated Max. SPL: | 130 dB (peak, whole space) |
| Dispersion: | 90 h x 60 v (Optional 120 h x 60 v) |
| Power Handling: | <i>See SA650 amplifier specs below</i> |
| Transducers: | Woofer: SSL10-7; High Frequency Driver: SSD3001-8; Replacement HF Diaphragm CD3001-8 |
| Crossover Frequency: | 1.8 kHz active electronic |
| Enclosure: | 3/4 in./19 mm, 11 ply Lite-Ply® plywood |
| Grille: | 16 GA powder-coated, plated steel |
| Finish: | Black (RAL9010) or White (RAL9011) paint, standard. Custom colors optional. |
| Mounting: | 35 mm tripod socket, Optional 10 mm U-Bracket Points. UBRKT/P210 |
| Dimensions: | 12-3/4" w x 22-3/8" h x 12-3/8" d 324 mm w x 567 mm h x 324 mm d |
| Weight: | 40 lbs/18.2 kg |

SA650 Amplifier Specifications

| | SA650-RN | SA650-RD (Brooklyn II) |
|-----------------------------|---|--|
| Audio Connections: | 2 x XLR-3, In & Loop-out, Analog and AES | 2 x XLR-3, In & Loop-out, Analog and AES 2 x RJ45 Dante Primary & Secondary Ethernet |
| Latency: | 6.25 ms | 6.25 ms Analog & AES 6.25 ms + Dante transport latency |
| Max. Input Level: | +22 dBu, Analog, 0 dBFS digital | +22 dBu, Analog, 0 dBFS digital |
| Network Connections: | 2 x RJ45, Looping Ethernet/RHAON | 2 x RJ45 Dante Primary & Secondary Ethernet/RHAON <i>(Note: Dante and RHAON share a single or redundant Ethernet network.)</i> |
| User DSP: | Eight fully parametric filters, high and low shelf, high and low pass filters, delay to 340 ms. | |
| Software: | RHAON II | |
| Power Output: | LF= 500 watts, @ 8 ohms / HF = 250 watts @ 4 ohms. Multi-band peak and thermal limiting on all channels protects the drivers. | |
| Mains Voltage: | 100-240 volts, 50/60 Hz auto-switching | |
| Power Consumption: | Idle: 200 mW. 1/8 power: 120 W <i>(onset of limiting)</i> 1/3 power: 240 W <i>(hard limiting)</i> | |
| Power Connector: | Neutrik powerCON TRUE-1 | |
| Temperature Limits: | Max.: 140° F/60° C, with no direct sun exposure; Min.: -22° F/-30° C; leave unit on to keep interior warm below 32° F/0° C. | |

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

