

NR

NELSON-REED



THE ACCURATE LOUDSPEAKER

THE ACCURATE



8-04 PRO Three-Way

- 120dB SPL, most of any single-midrange loudspeaker
- Ultra-low distortion — less than 0.35% at 110dB
- Hand-tuned crossover
- High efficiency
- Bi-ampable
- Adjustable bass loading
- Model 1204 Subwoofer optional for 16Hz to 20kHz, +/- 3dB

The Nelson-Reed Model 8-04 Loudspeaker represents a technological breakthrough, creating a new class of loudspeakers: the 8-04 has the highest power handling and lowest distortion specifications of any single-midrange loudspeaker in the world. The 3-inch dome driver used in the 8-04 is coupled to a 160-oz. magnet assembly, which lowers distortion and increases sonic output. Mid-band distortion at 110dB continuous output is below 0.35%, less than one-tenth of any other three-way system.

A system comprised of 8-04 loudspeakers, with one or more 1204 subwoofers, can reproduce music at levels and frequencies which satisfy the full limits of human hearing. With a specification of 120dB output from 16Hz to 20kHz, the 8-04/1204 system reproduces music without compression or distortion, providing a startling degree of realism.

Your loudspeaker should reproduce sound just as it was recorded. Nelson-Reed loudspeakers reproduce the acoustic source accurately. Be it rock, jazz, classical, or country, you hear what the artist wanted you to hear. Rather than adding the acoustic colorations so common to most loudspeakers, Nelson-Reed loudspeaker systems don't add false bass, boost the lower mid-range, add artificial presence to the vocal region, or accent the highs. Nelson-Reed loudspeakers let you hear music as if through new ears, accurately, articulately, and without fatigue.

You hear music, not a loudspeaker.

By combining art and science, we use modern technology to preserve the integrity and beauty of music. Our ongoing research program works to improve our products as new concepts in loudspeaker design are discovered, keeping Nelson-Reed at the leading edge. Scientific methods including Fast Fourier Transforms (FFT) and Real Time Analysis quantify the sound characteristics, helping us to create state-of-the-art products.

Nelson-Reed uses only the highest quality components available. Improved cone materials, magnet designs, and suspension materials make Nelson-Reed drivers the best. All coils are custom wound, capacitors selected and properly bypassed. We spare no expense on parts, to bring you a better overall product.

The accurate sound reproduction inherent in all Nelson-Reed products results also in part from our multiple-slope crossover networks. Every Nelson-Reed system employs shallow 6 dB per octave filters at the crossover points to minimize phase shift, hold a very neutral soundstage, and create constant images. Steeper slope values further from the crossover points are



8-02/B Three-Way

- Widest frequency response of any loudspeaker of its size
- Low distortion
- High efficiency
- Bi-ampable
- Adjustable bass loading
- Moderately priced
- Model 1204 Subwoofer optional for 16Hz to 20kHz, +/- 3dB

The new Model 8-02/B Loudspeaker contains many of the design goals of the 8-04 while being held to an unusually modest price. The 8-02/B was specifically designed to out-perform any three-way system in its price and size category.

The bass response of the 8-02/B is flat to 32 Hz and 10 dB down at 20 Hz, giving it the most extended, linear bass of any system its size.

At "normal" home listening levels, the 8-02/B meets all of the needs of the audiophile, maintaining the musical performance of the 8-04's at slightly reduced power levels. Like the 8-04, the 8-02/B is bi-ampable, and may also be used with one or more 1204 subwoofers to extend the bass and power handling.



1204 Active Subwoofer

- Demonstrated most powerful subwoofer on the market
- 120dB system SPL
- 16Hz bass response
- Versatile — works with any loudspeakers, including planars
- Use with any amplifier combination, mono or stereo
- Upgrade at any time — add more 1204 Subwoofers



AC-1204 ACTIVE CROSSOVER

The Nelson-Reed 1204 System (comprised of the Model TW-1204 Subwoofer plus the Model AC-1204 Active Crossover) is regarded by reviewers as the most powerful and accurate on the market. Even on the most demanding listening material, a pair of TW-1204 subwoofers will run virtually distortion-free at 120dB system sound pressure level (SPL) down to 16Hz. Each subwoofer contains four 12-inch drivers, two facing forward, and two facing back, to improve dispersion and minimize cabinet resonances. Each subwoofer may be used with either a mono or stereo amplifier.

The AC-1204 active crossover is required for one or more TW-1204's. Maximum midrange clarity is achieved through a quadruple-slope crossover filter which removes all audible midrange from the subwoofer, yet introduces minimal phase shift. A 48dB/oct subsonic filter below 10 Hz removes record warp problems, yet maintains the subwoofer output to a -3dB point at 16 Hz. The AC-1204 has both a bypass and mono-bass mode, and bass level can be adjusted to match any amplifier or main loudspeaker combination.

While the 1204 System is an ideal match for the Nelson-Reed model 8-02/B or 8-04 main loudspeakers, it can be used to improve both bass performance and power handling of any piston or planar loudspeaker system.

LOUDSPEAKER

computer-optimized to best eliminate the colorations and false enhancements common to most loudspeakers, especially at high volume.

Nelson-Reed satellite and subwoofer systems are carefully matched for seamless reproduction of the entire musical spectrum. Our subwoofers should not be considered "add-ons", but part of complete loudspeaker systems, constructed in separate cabinets for superior performance. Single, overly-large cabinets can be cumbersome. The Nelson-Reed concept allows perfect placement of each cabinet; the midrange and bass can be positioned independently, optimizing the performance of each. All Nelson-Reed loudspeaker systems allow system upgrades by offering appropriate passive or active bi-amp or tri-amp options.

Nelson-Reed's cabinets are designed to combine acoustic excellence with their sharp appearance. Resonances are minimized through use of selected wood densities and computer-determined bracing. Attractive small-area fronts, rounded corners, and flush-mounted drivers reduce cabinet reflections. And, our all-wood cabinets feature fine, durable hardwood veneer with a hand-rubbed oil finish.

All Nelson-Reed loudspeaker systems are tested in a variety of home listening environments throughout the design phase in order to minimize room effects and optimize their sonic purity.

Technology aside, our loudspeakers are about music. Music is an expression of emotion, communicated between the composer and the listener. By allowing the true dynamics and clarity of the music to reach the listener, our loudspeakers actually accent the communication which is music.

5-02 Mini-Monitor

- New dual-efficiency feature
- Can be used as stand-alone loudspeaker
- Ideal for limited space applications
- Model 1201 or 1202 Subwoofers optional for full bass performance

The Nelson-Reed Model 5-02 Two-Way Mini-Monitor truly represents the state-of-the-art in piston loudspeaker design. We know of no other miniature loudspeaker on the market today which can match its sound quality and frequency response, regardless of cost. The 5-02 may be used in close-field mixing/monitoring or listening situations without supplementary woofer units. Addition of Nelson-Reed model 1201 or 1202 subwoofers creates a dual-cabinet three-way system which rivals many single-cabinet systems, while allowing flexibility in space constrained environments. Until now, comparable performance in a compact loudspeaker system was simply not obtainable. A new feature allows the 5-02 to be switched into high-efficiency mode, adding 6dB to the sensitivity. This feature can also be used with Nelson-Reed 1201 or 1202 subwoofers.



6-02/B Bookshelf Two-Way

- Full-range frequency response — 32Hz to 20kHz
- Ideal for limited space applications
- Model 1201 or 1202 Subwoofers optional for full bass performance

The Model 6-02/B Loudspeaker is unique; there is no finer two-way loudspeaker system available today which can compete with its frequency range in such a compact size. With a cabinet volume slightly more than three-quarters of a cubic foot, the sonic output is only 3dB down at 32Hz, a specification few three-way systems can boast. The 6-02/B is designed for applications where full orchestral range and high fidelity listening are desired, yet space is a constraint. Its neutral response allows the 6-02/B to reproduce all types of music accurately.



1201 Passive Subwoofer

MONO

1202

STEREO

- Optimized for Model 5-02 Loudspeaker
- Totally self-contained — no electronics required
- Can be used with most loudspeakers
- Unobtrusive
- Allows optimal satellite / subwoofer placement
- Adjustable efficiency, bi-ampable
- Bass response to 20 Hz

The Nelson-Reed Models 1201 (mono) and 1202 (stereo) Subwoofers are designed to match our two-way loudspeakers (model 5-02 or 6-02/B), creating full bass performance systems. The 1201 is a mix-bass unit, hence only one is required, while two 1202's are required for stereo. The units are self-contained, neither bi-amp nor external crossovers are required.

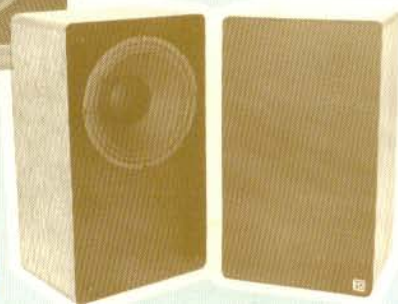
Rather than being an after-thought "add-on", the 1201 or 1202 subwoofers transform the 5-02 or 6-02/B loudspeakers into three-way loudspeakers in separate enclosures. The subwoofers may also be used with most other two-way or planar systems on the market to enhance bass as well as improve power handling.

The bass response of the subwoofers is flat to 32Hz, and only 10dB down at 20Hz. Both models use 12-inch high-compliance woofers in unbelievably small cabinets of under two cubic feet. For maximum flexibility, the subwoofers offer bi-amp and level-strapping jumpers.

1201 MONO SUBWOOFER
WITH 5-02 LOUDSPEAKERS



1202
STEREO
SUBWOOFER



FLOOR-STANDING SYSTEMS

8-04 PRO Three-Way Floor-Standing Loudspeaker Slot-Loaded

Frequency Response: \pm 3dB, 32Hz to 20kHz guaranteed (\pm 2dB typical)
with 1204 Subwoofer: \pm 3dB, 16Hz to 20kHz guaranteed (\pm 2dB typical)
Corner Frequencies: -10dB @ 25Hz and 30 kHz, -3dB @ 32Hz
with 1204 Subwoofer: -10dB @ 12Hz and 30 kHz, -3dB @ 16Hz
Sensitivity: 91dB @ 1M @ 1W
Nominal Impedance: 8 Ohms
Power Handling: 500 Watts
with 1204 Subwoofer: 1000 Watts
Distortion: Under 0.35% at 1kHz at 110dB
Maximum Practical Output: 120dB peak
Driver Type — Woofer: Two 8-inch fiber cones, 40-oz. magnets
Midrange: 3-inch dome, 160-oz. magnet
Tweeter: 3/4-inch ferro-fluid soft dome
Crossover Frequencies: 320 Hz, 5.5kHz
Crossover Type: Proprietary 22 element, minimal phase shift, hand-tuned
System Q: 0.8
Thermal Protection: 3 amp fast-blow fuse, low-distortion bypassed
Cabinet Finish: Oiled Oak or Walnut, rounded hardwood corners
Size and Weight: 39"H x 12"W x 15"D, 86 lbs.

8-02/B Three-Way Floor-Standing Loudspeaker Slot-Loaded

Frequency Response: \pm 2dB, 32Hz to 20kHz guaranteed (\pm 1dB typical)
with 1204 Subwoofer: \pm 3dB, 16Hz to 20kHz guaranteed (\pm 2dB typical)
Corner Frequencies: -10dB @ 20Hz and 30 kHz, -3dB @ 32Hz
with 1204 Subwoofer: -10dB @ 12Hz and 30 kHz, -3dB @ 16Hz
Sensitivity: 92dB @ 1M @ 1W
Nominal Impedance: 8 Ohms
Power Handling: 250 Watts
with 1204 Subwoofer: 500 Watts
Distortion: Under 1% at 1kHz at 100dB
Maximum Practical Output: 115dB peak
Driver Type — Woofer: 8-inch Bexetrene cone, 40-oz. magnet
Midrange: 4-inch cone, 20-oz. magnet
Tweeter: 3/4-inch ferro-fluid soft dome
Crossover Frequencies: 150 Hz, 4.5kHz
Crossover Type: Proprietary 22 element, minimal phase shift
System Q: 0.7 (optimally damped)
Thermal Protection: 3 amp fast-blow fuse, low-distortion bypassed
Cabinet Finish: Oiled Oak or Walnut, rounded hardwood corners
Size and Weight: 36"H x 12"W x 15"D, 60 lbs.

1204 Active Subwoofer Acoustic Suspension

Frequency Response: \pm 3dB, 16Hz to 62Hz guaranteed (\pm 2dB typical)
Corner Frequencies: -10dB @ 12Hz and 80Hz, -3dB @ 16Hz
Sensitivity: 93dB @ 1M @ 1W @ 62Hz
Nominal Impedance: 8 Ohms
Power Handling: 300 Watts RMS continuous
Distortion: Under 1% at 60Hz at 110dB system level
Maximum Practical Output: 120dB peak
Driver Type: Four 12-inch fiber cones, 40-oz. magnets
Crossover Frequency: 62Hz
Crossover Type: Nelson-Reed Model AC-1204 Active Crossover
System Q: 0.6
Thermal Protection: Two 3 amp fast-blow fuses, low-distortion bypassed
Cabinet Finish: Oiled Oak or Walnut, rounded hardwood corners
Size and Weight: 39"H x 18"W x 18"D, 100 lbs.

BOOKSHELF SYSTEMS

5-02 Two-Way Mini Monitor Acoustic Suspension

Frequency Response: \pm 3dB, 70Hz to 20kHz guaranteed (\pm 2dB typical)
with 1201 or 1202 Subwoofer: \pm 3dB, 32Hz to 20kHz guaranteed (\pm 2dB typical)
Corner Frequencies: -10dB @ 40Hz and 30 kHz, -3dB @ 70Hz
with 1201 or 1202 Subwoofer: -10dB @ 20Hz and 30 kHz, -3dB @ 32Hz
Sensitivity: 90dB high setting, 84dB standard @ 1M @ 1W
Nominal Impedance: 8 Ohms
Power Handling: 40 Watts
with 1201 or 1202 Subwoofer: 100 Watts
Distortion: Under 1% at 1kHz at 80dB
Maximum Practical Output: 106dB peak
with 1201 or 1202 Subwoofer: 116dB peak
Driver Type — Woofer: 5-inch Bexetrene cone
Tweeter: 3/4-inch ferro-fluid soft dome
Crossover Frequency: 3.5 kHz
Crossover Type: Proprietary 14 element, minimal phase shift
System Q: 0.7 (optimally damped)
Thermal Protection: 2 amp fast-blow fuse, low-distortion bypassed
Cabinet Finish: Oiled Oak or Walnut, rounded hardwood corners
Size and Weight: 12"H x 8"W x 8"D, 12 lbs.
Note: Frequency response for standard setting.
 1/2 octave less bass response for high-sensitivity setting

6-02/B Two-Way Bookshelf Loudspeaker Ported

Frequency Response: \pm 3dB, 32Hz to 20kHz guaranteed (\pm 2dB typical)
with 1201 or 1202 Subwoofer: \pm 3dB, 32Hz to 20kHz guaranteed (\pm 2dB typical)
Corner Frequencies: -10dB @ 25Hz and 30 kHz, -3dB @ 32Hz
with 1201 or 1202 Subwoofer: -10dB @ 20Hz and 30 kHz, -3dB @ 32Hz
Sensitivity: 84dB @ 1M @ 1W
Nominal Impedance: 8 Ohms
Power Handling: 50 Watts
with 1201 or 1202 Subwoofer: 100 Watts
Distortion: Under 1% at 1kHz at 80dB
Maximum Practical Output: 100dB peak
with 1201 or 1202 Subwoofer: 110dB peak
Driver Type — Woofer: 6 1/2-inch Bexetrene cone
Tweeter: 3/4-inch ferro-fluid soft dome
Crossover Frequency: 3.5 kHz
Crossover Type: Proprietary 14 element, minimal phase shift
System Q: 0.7 (optimally damped)
Thermal Protection: 2 amp fast-blow fuse, low-distortion bypassed
Cabinet Finish: Oiled Oak or Walnut, rounded hardwood corners
Size and Weight: 19"H x 12"W x 11"D, 25 lbs.

1201 MONO 1202 STEREO Passive Subwoofer Acoustic Suspension

Frequency Response: \pm 3dB, 32Hz to 120Hz guaranteed (\pm 2dB typical)
Corner Frequencies: -10dB @ 20Hz and 160Hz, -3dB @ 32Hz
Sensitivity: 90dB high setting, 84dB standard @ 1M @ 1W
Nominal Impedance: 8 Ohms
Power Handling: 100 Watts RMS continuous
Distortion: Under 1% at 60 Hz at 100dB system level
Maximum Practical Output: 110dB peak
Driver Type: 12-inch fiber cone, 40-oz. magnet
Crossover Frequency: 120Hz
Crossover Type: 10 element minimal phase shift with equalization
System Q: 0.7 (optimally damped)
Thermal Protection: 3 amp fast-blow fuse, low-distortion bypassed
Cabinet Finish: Oiled Oak or Walnut, rounded hardwood corners
Size and Weight: 1201: 18" cube, 40 lbs.
 1202: 25"H x 15"W x 12"D, 40 lbs.

