

1 Featuring the AuZEN BlackBox®

The Blackbox is a no-nonsense two-way design based on solid principals, tested by careful listening and distortion measurements. Features a ruler-flat in-room frequency response down to 40 Hz, extremely low linear and nonlinear distortion for a detailed, uncolored sound. Sonic signature would be described as lively midrange, warm bass, and transparent treble—which is what we believe appeals to music lovers like ourselves. However, our only design goal is accuracy and all this merely comes with true accuracy, which is easily measurable with microphones.

2 Tweeter: Dayton Reference Tweeter

The tweeter's unique black anodized 1-1/8" aluminum diaphragm and state-of-the-art motor system provides clean, detailed, and uncolored sound. A cast aluminum faceplate, protective mesh grill, tuned rear chamber, and Faraday shorting rings in the motor system are just a few of the features that allow this tweeter to outperform other high-end tweeters. Provides unusually wide dispersion for such a tweeter with a unique diffuser. You will be pleasantly surprised at how smooth this tweeter sounds, perhaps the smoothest and most detailed metal dome tweeter around, due to its extremely low distortion and unusually high breakup peak at 30kHz, while other metal dome tweeters start to break up within the audible frequency range.

3 Woofer: Dayton Reference 7" woofer

This rigid aluminum-cone woofer is extremely detailed and dynamic-sounding. Its 12 mm linear excursion and low-distortion bass gives a nice warm bass and lower midrange. Their low-distortion characteristics and high excursion capabilities provide exceptional clarity, detail, and dynamics. Woofer features a black anodized cone, heavy-duty 6-hole cast frame, low-loss rubber surround, and solid aluminum phase plug. You'll be surprised to hear deep, clean bass with plenty of punch from a two-way. A subwoofer is not needed but adding one would further improve performance and power handling.

4 Featuring Speed Filters®

Instead of following nonsense design principles such as “no crossovers in the 1000-5000 Hz range,” or “eliminate crossovers altogether” or “efficiency is everything,” we follow solid no-nonsense principles that are weighed in importance. The only problem crossovers create is the creation of ringing in the crossover region. Ringing occurs when sound continues to play after the signal stops playing. Our solution is to use a fast high-slope crossover point at 1400 Hz so that ringing only occurs at a very small portion of the frequency spectrum that is completely unnoticeable. The low crossover point offers great off-axis sound (sounds the same at an angle as compared to on-axis). Even more importantly, it makes our speaker a true piston for the entire audible frequency range—we have, in fact, *true Pistonic Motion*®.

5 Featuring true Pistonic Motion®

Most speakers in BlackBox® price category use a polypropylene woofer with a textile dome tweeter. These soft materials flex, creating harmonic distortion and losing out on detail. With rigid cones like metal, the cone acts like a piston until its breakup frequency. Using Speed Filters®, the tweeter takes over long before breakup of the woofer, and the tweeter itself is pistonic to nearly 30 kHz. Pistonic behavior insures a flat frequency response, no breakups, minimized stored energy as well as minimized nonlinear distortion. Subjectively, the sound is more detailed and uncolored. A cones natural motion should be pistonic, yet it is surprising how rare pistonic speakers are. Fortunately, we introduce the BlackBox®, the first affordable pistonic speaker.

6 Featuring premium crossover components:

Uses only metalized polypropylene and film/foil capacitors with air coil inductors. The difference using premium crossover components is easily noticeable and there is not much more to say.

7 Featuring Direct Path[®] Sound

No grills mean the sound hits your ears before any reflections on objects, in league with our design philosophy. Tweeter is located on the baffle in a position that minimizes diffraction effects based on computer modeling. Sound-absorbing foam is coated on the front baffle to further reduce diffraction effects. The result is a more transparent, cleaner sound. Further performance may be extracted by using room treatments.

8 Specifications:

8.1 Description:

2-way vented box

8.2 Technical features:

Pistonic Motion[®]

8.3 Drive units:

1. One 28 mm aluminum dome tweeter
2. One 180 mm aluminum woofer/midrange

8.4 Frequency Response:

40 Hz-25 kHz \pm 2dB

8.5 Efficiency:

84 dB SPL (2.83V, 1m)¹

8.6 Nominal Impedance:

8 Ω

8.7 Subwoofer Integration:

40 Hz or lower

8.8 Dimensions:

10" width 17" height 10.5" depth

8.9 Weight:

50 lbs.

¹Note: Other manufacturers inflate their efficiency ratings.