



Delicate detailing, powerful punch and dimensional imagery: Infinity's Reference Standard 2.5

Early in 1979, Infinity's steadfast commitment to the state of the art once again produced a landmark achievement in the advance toward total musical accuracy:

The Reference Standard 4.5 speaker system.

Now, Infinity innovation has incorporated all the exclusive technological marvels of the Reference Standard 4.5 into an equally elegant, slightly scaled-down and much less expensive system:

The Reference Standard 2.5.

It could only come from Infinity.

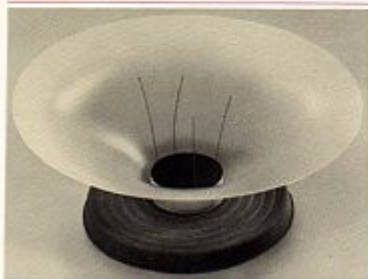
The polypropylene speaker cone signals the end of cone-generated distortion

The advantage of using polypropylene instead of paper or exotic plastic for speaker cones is simple:

When a sudden signal, or transient, is applied to any cone driver, the cone responds unevenly; rippling and flexing. These aberrations continue after the signal stops or

changes; the outgoing sound dulls the clarity of the incoming music.

A material's ability to recover quickly from these distorted modes is called its "Q." The lower the Q, the better. Paper has a Q of 90 to 100; polypropylene, 7 to 9!



Polypropylene also forms a more effective sonic barrier against the escape of echoing back-waves from inside the enclosure.

Furthermore, unlike paper, polypropylene doesn't tear, can stand heat up to 135°C, and is not affected by humidity. And it is much more efficient than exotic plastics such as bextrene.

Infinity has refined the output of its already advanced dual-voice-coil woofer by equipping it with a polypropylene cone. This is why the bass output of Infinity's Reference Standard speakers exhibits such remarkably accurate midbass transients.

Our woofer has one voice-coil more—and one problem less—than all others

The exclusive Infinity-Watkins dual-voice-coil woofer[®] solves a major problem that plagues

all other woofer/enclosure systems: resonance.

Every combination of woofer and enclosure has a fundamental resonant frequency, at which the impedance of the speaker rises, limiting the amplifier's efficiency, and the woofer cone exaggerates its output, resulting in unnatural coloration and poor transient response.

Infinity solves the problem by utilizing two voice-coils with different impedances. As musical signals approach the fundamental resonant frequency of the first, the second gradually takes over. This results in more accurate response and a flatter impedance curve, which leaves the amplifier free to deliver more power at low frequencies.

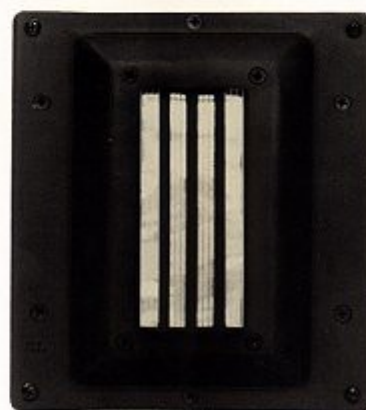
Listen. Suddenly the entire bottom end of the orchestra and chorus is clean and consistent, neither muffled nor exaggerated.

EMIT™ brought a new standard of clarity and power to high frequencies. EMIM™ does the same for midrange.

Critics throughout the world have proclaimed Infinity's exclusive EMIT, or Electro-magnetic Induction Tweeter, the highest achievement in high-frequency technology.

In reviewing the Infinity Qe, which it headlined "A brilliant Success," the prestigious French magazine HiFi said: "The technical highlight of

this speaker is undoubtedly its tweeter: a hornless strip model with a delicacy and transparency that has been admired on earlier Infinity speakers... what richness of detail in the highs and top highs!"



The source of this ecstasy is our EMIT tweeter. Each stereo channel of the Reference Standard 2.5 system has two EMITs, in dipole configuration.

And now we have introduced the midrange counterpart of EMIT: our new EMIM (Electro-magnetic Induction Midrange) driver, which utilizes the same type of powerful rare-earth samarium cobalt magnets, and the same kind of voice-coil etched on an ultra-low-mass diaphragm, to bring glorious new beauty and precision to the critical midrange. Our new dipole EMIM makes a marvelous contribution to the purity and immediacy of reproduc-

tion that characterizes the Reference Standard 2.5.

The great equalizer: our optional control unit.

To match any pair of RS 2.5 speakers to any listening environment, Infinity offers an optional console with separate controls for the woofers, mid-range drivers, and tweeters, to equalize their apparent output in any surroundings.

Crossover controls offer a wide choice of frequencies at which each group of drivers can come into operation.

And besides its other functions, the control unit allows the speakers to be either bi-amped or powered by a single stereo amplifier.

Forget the speakers. And surround yourself with music.

There is no sense that the sound is issuing from two enclosures. The speakers seem to disappear; you hear the performers arrayed in their natural depth as well as breadth. And, as with all Infinity speakers, there is a remarkable stability of the stereo imaging as you change positions in the room.

Listen to several of your favorite records through the RS 2.5 and discover that the music suddenly has taken on new depth; subtle nuances of instrumental

inner voicings are revealed. The highs are less screechy, the bass more defined, the human voice more human.

This is musical information revealed by the 2.5—not created by it. This delicate detailing, powerful punch and dimensional imagery are already contained in good records—particularly the new audiophile direct-to-disc and digital records. Yet they remain virtually inaccessible with other speakers because of the limitations of their technologies.

The superb individual drivers of the 2.5—designed and built at Infinity—have been painstakingly blended into a homogenous, cohesive whole.

As great as its parts are, the sum of the RS 2.5 is even greater.

It is a remarkable fact of the audio industry that Infinity has grown, in just over a decade, from a garage workshop in Woodland Hills into one of the most respected speaker companies in the world.

The Reference Standard 2.5 is a very good reason why.

Reference Standard 2.5 Specifications

Frequency response:

30 through 32,000 Hz \pm 3 dB

Horizontal dispersion:

-2 dB @ 60° right or left (20 kHz)

Suggested for use with amplifiers of:

100 to 300 watts per channel

Nominal impedance:

4 ohms

Drivers:

For each channel:

- (a) one 12-inch (30cm) Infinity-Watkins Dual-Drive Woofer with polypropylene cone;
 - (b) two EMIM (Electromagnetic Induction Midrange) drivers in dipole configuration;
 - (c) two EMIT (Electromagnetic Induction Tweeters), one of them facing rearward
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Crossover frequencies:

300 Hz (adjustable with optional electronic crossover control) and 5,000 Hz

Dimensions:

51 inches x 18 wide x 11
(129 cm x 46 wide x 28)

Shipping weight:

117 pounds (53 kgs) each

Finish:

Solid oak and veneers. Cloth grille and its frame are removable

Warranty:

Five years, transferable (see complete warranty statement)

*Manufactured by Infinity Systems, Inc. under license from Watkins Engineering Inc.

A word about power ratings:

The recommended power ratings given in these publications are arrived at in the Infinity listening room and at the volume which we feel to be appropriate for musical reproduction.

Your needs may be different.

If you intend to use your speakers for background music, or at moderate levels in a small room, an amplifier or receiver with less than the recommended minimum power rating can be used. But it is important to be aware of a potential hazard that exists when an amplifier or receiver is played beyond its limits: damaged tweeters.

At some, loud, listening level all amplifiers will "clip" off the peaks of the musical signals. When this happens, the resulting harsh distortion contains a considerable amount of high-frequency energy, which is routed to the tweeters. This high energy can destroy your tweeters.

It is easier to damage any speakers with a low-powered amplifier than with a high-powered one.

We cannot anticipate your needs, we can only offer guidelines. Discretion is advised.

About nominal impedance.

Nominal Impedance refers to how much current is required, on the average, from an amplifier for a given voltage at its output terminals. A high impedance speaker will require less current than a low impedance speaker. Impedance is not an indication of quality or accuracy in a loud speaker. Unless you listen to loud sustained organ music or choral works played at concert level, an amplifier rated at 8 ohms will have no difficulty driving a 4 ohm speaker.

Because Infinity strives always to improve existing products, specifications and prices are subject to change.



We get you back to what it's all about. Music.

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