

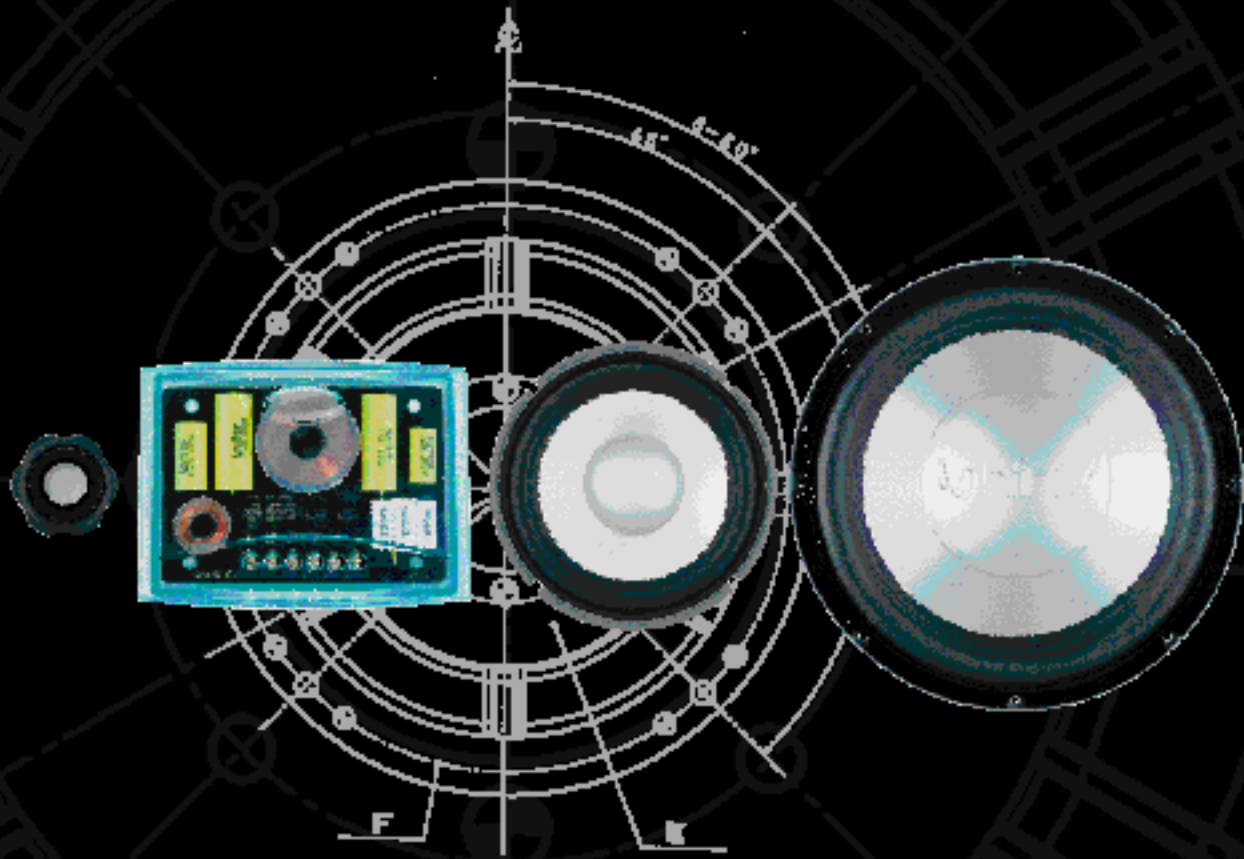
Infinity

250 Crossway Park Drive
Woodbury, NY 11797 USA
800.553.3332
Fax 516.862.3123
www.infinitysystems.com
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PERFECT

PERFECT



Infinity

Infinity has dedicated more than a quarter century to developing exceptional products and setting new standards in the audio industry. *Perfect* is a shining example of our ability to engineer car-audio products that satisfy the most demanding listener. The Perfect component system and subwoofers draw upon Infinity's **world-class** audio-engineering resources to create products that are nothing less than **Perfect**.

component system: perfect

The Perfect.1's woofer employs a proprietary Focused Field Tri-Pole Motor™ that concentrates the motor's magnetic energy at the voice-coil gap, avoiding the losses and lack of symmetry that cause audible distortion. The woofer cone's modified-aluminum construction provides extremely high stiffness for its moving mass, allowing the Perfect.1 to reproduce deep-bass frequencies at surprisingly high levels relative to its cone size. The cone and motor structure are mounted in a cast-aluminum basket that maintains precision tolerances under the demanding vibration and temperature extremes of the mobile environment.

The woofer also features the Intermount III™ mounting system (patent pending), which allows easy installation in any six-inch factory location, including the standard domestic 6" and the European DIN 165mm, and even slightly undersized locations, such as those in Honda and Toyota doors.

The system's tweeter features a modified-aluminum dome suspended by a rubber surround and is driven by a powerful neodymium magnet. The unique rubber surround helps reduce the resonant frequency of the tweeter, thereby ensuring a linear transition to the midrange driver at the critical 10dB mid crossover frequency.

The tweeter uses Infinity's I-mount™ design (patent #5,059,917), which allows for install-and-forget-it flush, angle or surface mounting.

The 3.5kHz passive crossover uses a 24dB/octave Linkwitz-Riley™ fourth-order acoustic alignment. This alignment allows greater mounting flexibility by eliminating the frequency-response problems caused when the woofer and tweeter are mounted on different planes.

Air-core inductors reduce magnetic saturation under high-power conditions, and polypropylene capacitors ensure non-ideal characteristics with low resistance and inductance even at the highest reproduced frequencies. The crossover also features advanced response compensation and protection circuits, and five selectable tweeter-level settings of +5dB, 0dB and -5dB.

If you want the best car-audio speaker system money can buy, you owe it to yourself to audition the Perfect.1.

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perfect 61 component system

1" Tweeter, 2.4dB/Octave Crossover, 6-1/2" Woofer

Frequency response: 7.5Hz - 20kHz, ±3dB

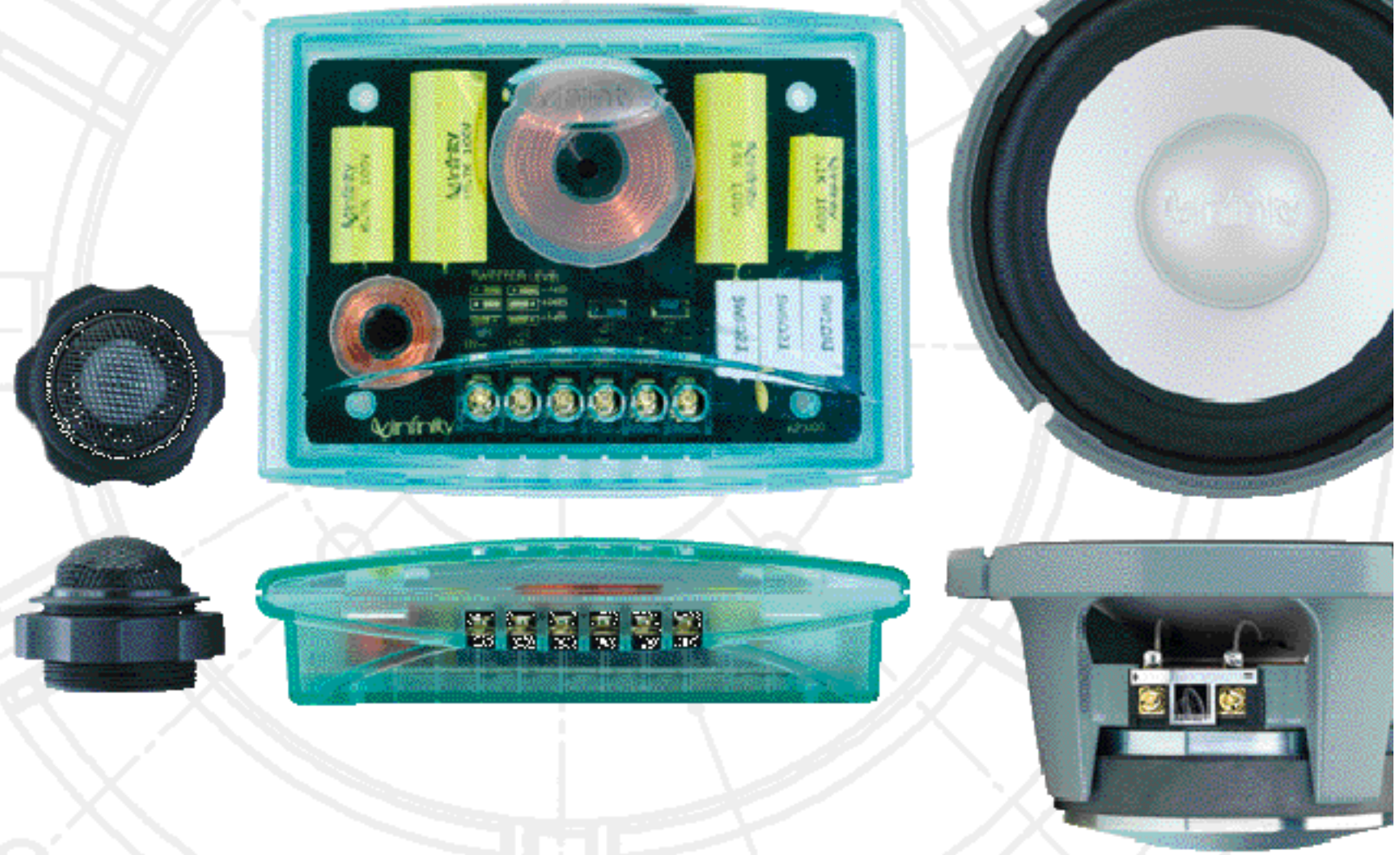
Power handling: 100W RMS, 400W Peak

Nominal impedance: 4 Ohms

Sensitivity: 90dB

Crossover frequency: 3.5kHz, 24dB/oct. Linkwitz-Riley™ Acoustic

Mounting depth: Woofer - 2.31" (59mm), Tweeter - 1" (25.4mm)



perfect



perfect 10.1 subwoofer

10" High-Output Subwoofer

- Power handling: 500 Watts
- Sensitivity: 96dB (1m in car @ 10Hz)
- Frequency response: 18Hz - 150Hz
- Driver: duralum cone
- Dust cap: black
- Flared pole and inverted pole piece
- Mounting depth: 4"

perfect 12.1 subwoofer

12" High-Output Subwoofer

- Power handling: 500 Watts
- Sensitivity: 96dB (1m in car @ 10Hz)
- Frequency response: 18Hz - 150Hz
- Driver: duralum cone
- Dust cap: black
- Flared pole and inverted pole piece
- Mounting depth: 6-1/2"



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The Perfect 10 passive crossover features a 24dB/octave Linkwitz-Wiley™ alignment, air-core inductors and polypropylene capacitors.



The direct-vented basket ensures optimum alignment of the motor structure and helps reduce voice-coil cooling.



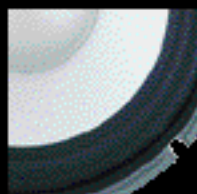
The deep-ventured 1" aluminum basket features Infinity's patented aluminum basket-mounting system.



The fired and polished polepiece vent reduces turbulence and helps reduce voice-coil cooling.



A custom speaker terminal for a better connection and signal contact area.



Ultrarigid aluminum cone helps reduce the modal distortion caused by cone flexing at high excursion better than other materials.

subwoofers: perfect

The Perfect 10.1 and Perfect 12.1 are the expression of Infinity's commitment to producing world-class audio products intended for the serious enthusiast. K1 pp1 Perfect subwoofers deliver twice the excursion of competing subwoofers — a massive 14.15 millimeter of one-way linear excursion. In order to maintain a rigid piston at such high excursion, Infinity's engineers developed an ultrastiff diamond-aluminum cone, which helps reduce distortion caused by flexing at high excursion. This cone is suspended by a high-roll butyl surround, which provides superior cone-edge control and resonance damping. The motor consists of a 1-1/2"-long, four-layer voice coil attached to a flat progressive spider, providing maximum control of the woofer's excursion limits. The cone and motor structure are mounted in a cast-aluminum basket that maintains precision tolerances under the demanding vibration and temperature extremes of the mobile environment. Combined with the fired and polished polepiece vent, the Perfect woofer's basket is vented for additional cooling. Finishing off the Perfect sub is a flexiglass™ gasket that won't separate like cardboard gaskets or disintegrate like foam gaskets. Insulated time-of-lead wire is used to protect against short circuits at excursion limits.

Both the Perfect 10.1 and Perfect 12.1 interface extremely well in a variety of small enclosures, making them the subwoofers of choice for many sound-quality and SPL competitors. Systems using Perfect subwoofers have been setting records and winning contests all over the globe.



Gold-plated, five-way binding post with standard banana-plug wiring accepts high-end dual banana plugs.



Combined with the fired and polished polepiece vent, the Perfect woofer's vented basket provides maximum voice-coil cooling.



Ultrarigid diamond-aluminum cone lowers the modal distortion caused by cone flexing at high excursion better than other materials.



Cast-aluminum basket ensures perfect alignment of the speaker's moving parts and provides a non-magnetic frame.



Insulated time-of-lead wire protects against short circuits at excursion limits.