Infinity®

Studio Monitor Series

SPEAKERS

OWNER'S MANUAL
NOTICE D'EMPLOI

Infinity Studio Monitor Series Speakers

UNPACKING

Thank you for purchasing Infinity loudspeakers. We know you will enjoy their performance. Please inspect your speakers carefully after unpacking. If they have been damaged in transit, call your dealer or the trucking firm that delivered them for instructions on how to file a claim.

POSITIONING FOR AUDIO

Proper positioning of the speakers within the listening room is of primary importance in order to achieve the best possible sound. Room reflections, furniture placement, heavy draperies, window reflections, and so on can influence sonic quality, balance and the stereo image. It is essential to experiment with different locations to determine which placement offers the best overall balance and imaging.

For the best stereo effect, the speakers should be placed at least 7-10 feet apart. At times, angling the speakers slightly inward toward the listening position will add to overall spaciousness and deliver a more realistic sound stage. Try to avoid placing floor standing speakers directly against the wall, or in corners of the room because this may sacrifice depth of image and create excessive boominess. If you must place the speakers higher than ear level, tilt them downward to direct the tweeters toward your ears.

For optimum performance, bookshelf speakers should be placed either on a bookshelf, a pedestal, or wall-mounted.

POSITIONING FOR HOME THEATER

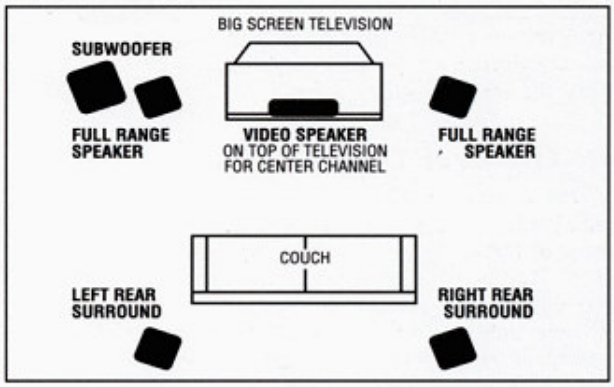
There are a number of ways to position the speakers for proper playback in a home theater installation. If the speakers are positioned properly for home theater they will be suitable for audio and video playback.

The left and right front speakers should be placed alongside the TV monitor; however, they should be at least 24" away to prevent color smearing. The Video Speaker can be placed on top of the TV monitor (since it is specially shielded to prevent stray magnetic radiation from interfering with the picture) or placed on the floor below the TV, tilted upward toward the listener for maximum sonic impact.

The subwoofer's primary location should be on the same line with the left or right front speaker. If bass response is not adequately deep, then the subwoofer may be moved closer to a wall, or for maximum bass, moved into a corner.

The rear speakers can be placed alongside, or behind the listener's position. Final placement will depend on room acoustics, availability of space and listener's preference. Many listeners do not like having a sound source coming directly from behind. Placing the rear speakers on the side and slightly to the rear may provide a more balanced surround sound field.

Study this drawing to help determine the placement that best suits your needs.



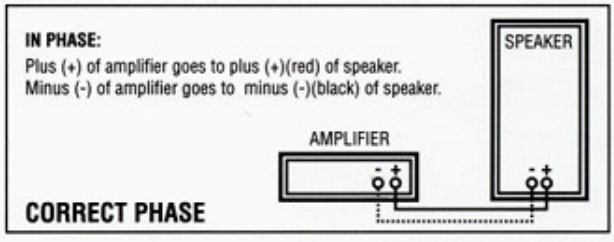
SETTING THE CONTROLS ON THE PASSIVE CROSSOVER

The SM 115 employs a tweeter level control, and the SM 125 and SM 155 employ level controls for the midrange and tweeter. These controls, located on the front of the speaker to the right of the midrange/tweeter, should be set to match room acoustics by listening to various types of program material. Generally, once set, the controls will remain at the chosen settings until the speakers are relocated.

CONNECTING THE SYSTEM

Make sure all equipment is turned off before making connections.

Connect your power amplifier to your speakers by using heavy gauge (#16, 14 or heavier) wire with polarity coding. The side of the wire with a ridge or other coding should be considered plus (+). The speakers must be connected in phase (both woofers always moving in the same direction at the same time) and every precaution must be taken to insure proper in-phase hookup (see diagram). If the speakers are out of phase (one speaker moving outward while the other moves inward) the result will be cancellation of bass frequencies and a floating effect preventing instruments and vocalists from stabilizing in their proper perspective.



SETTING THE AUDIO SYSTEM CONTROLS

Always turn down the volume of your system completely when changing a record or switching inputs from phono or CD to FM, etc. Excessively loud transients, which can result from a dropped stylus on a record or from improperly designed switches, can result in severe damage to your speakers.

Furthermore, when changing wires, pulling plugs, etc., always turn off all the equipment to prevent transients from entering the speaker. Use caution, and your speaker will repay you with many years of trouble-free service.

Never operate your audio system with the equalizer, tone and loudness controls set to maximum boost. This will place undue strain on the amplifier and could also result in damage to the speakers.

The position of the volume control setting is of little consequence in judging the amount of power a system generates. Loudness is a function of audio gain, which in itself is unimportant to the user. The only important consideration is the loudness level at which the system can be played, regardless of where the volume control is set.

ACOUSTIC FEEDBACK

If, after connecting your system you find the bass response to be boomy (or lacking in tightness and solidity) or if the bass driver cones produce excessive movement, the cause can usually be attributed to acoustic feedback – vibrations from the speakers reaching a turntable and tone arm, creating a resonance. In turn, this vibration is fed back to the electronics and speaker. Since Studio Monitor speakers extend to very low frequencies, isolating the turntable from vibrations becomes an important procedure.

The turntable should be placed on a heavy, solid support located as far from the speaker as possible. At times, using a shock mounted base helps reduce the vibration that causes feedback. After trying various methods to reduce acoustic feedback, if the problem still exists, contact your dealer for assistance.

NOTE: CD players are also susceptible to acoustic feedback and should be placed on solid supports to isolate them acoustically. Another method to isolate the CD player is to place it on four isolation feet available at your local dealer.

CARE OF YOUR SPEAKER SYSTEM

Your Infinity speaker cabinets are covered with a high quality vinyl which requires very little maintenance. Dust the enclosures with a damp cloth, or a name brand furniture polish. The grilles may be cleaned by using a vacuum cleaner on the low power setting.

IN THE EVENT OF TROUBLE

Note that you can use your amplifier's two channels of information for simple trouble-shooting. If the sound quality is distorted, listen to each speaker separately to check if the fault is present in both. If it is, then the trouble is likely to be elsewhere in your system. If the fault is in one channel only, reverse the outputs from your amplifier to the speakers (right-to-left and left-to-right). If the distortion moves to the other channel, the fault is not in the speaker. (This technique may also be used to locate a fault between the signal source and preamp/receiver and/or between preamp and power amp(s).

If you have been unsuccessful in locating the specific source of trouble (or if you have located it, but have been unable to correct it), make inquires in the following order.

- Consult the Authorized Infinity Dealer where you purchased the system. Infinity Dealers are audio specialists and can be of great assistance.
- Get the name and address of the Authorized Infinity Service Facility nearest you by writing or calling Infinity at (818) 407-0228. **Please ask for Customer Service.** You may be instructed to take, or send the problem part to a service facility for service under the terms of the warranty.

NOTE: Do not ship any parts or whole speakers for service without prior approval ("RETURN AUTHORIZATION"), and do not ship without enclosing a copy of your original bill of sale.

If there is no authorized service facility near you, or in the unlikely event that the service facility cannot solve the problem:

- Write, phone, or FAX:

Infinity Systems, Inc.
CUSTOMER SERVICE
9409 Owensmouth Avenue, Chatsworth, CA 91311
PHONE (818) 407-0228 / FAX (818) 709-7496

Describe the difficulty as specifically as possible. The Service Department will then advise you as to the action you should take.

SPECIFICATIONS

SM 65

POWER RATING ..... 10-100 Watts
FREQUENCY RESPONSE ..... 78Hz-25kHz ± 3dB
CROSSOVER FREQUENCY 4.5kHz
EFFICIENCY ..... 94 dB SPL, 1 Watt/1 Meter
IMPEDANCE ..... Compatible with 4 to 8 Ohms
DRIVERS ..... 6½" Polypropylene Coated Woofer,
¾" High Output Polycell™ Tweeter
CABINET FINISH ..... Black Ash or Walnut Vinyl
DIMENSIONS* ..... 8" Wide x 13¼" High x 7½" Deep

SM 85

POWER RATING ..... 10-125 Watts
FREQUENCY RESPONSE ..... 42Hz-27kHz ± 3dB
CROSSOVER FREQUENCY 2800Hz
EFFICIENCY ..... 98 dB SPL, 1 Watt/1 Meter
IMPEDANCE ..... Compatible with 4 to 8 Ohms
DRIVERS ..... 8" Polypropylene-Coated Woofer
1" High-Output Polycell Tweeter
CABINET FINISH ..... Black Ash or Walnut Vinyl
DIMENSIONS* ..... 11¼" Wide x 18" High x 10½" Deep

SM 105

POWER RATING ..... 10-150 Watts
FREQUENCY RESPONSE ..... 35Hz-27kHz ± 3dB
CROSSOVER FREQUENCY 3300Hz
EFFICIENCY ..... 100 dB SPL, 1Watt/1 Meter
IMPEDANCE ..... Compatible with 4 to 8 Ohms
DRIVERS ..... 10" Polypropylene-Coated Woofer
1" High-Output Polycell Tweeter
CABINET FINISH ..... Black Ash or Walnut Vinyl
DIMENSIONS* ..... 12" Wide x 21" High x 12" Deep

SM 115

POWER RATING ..... 10-175 Watts
FREQUENCY RESPONSE ..... 35Hz-27kHz ± 3dB
CROSSOVER FREQUENCY 900Hz/5500Hz
EFFICIENCY ..... 100 dB SPL, 1 Watt/1 Meter
IMPEDANCE ..... Compatible with 4 to 8 Ohms
DRIVERS ..... 10" Polypropylene-Coated Woofer
4½" Polypropylene-Coated Midrange
1" High-Output Polycell Tweeter
CABINET FINISH ..... Black Ash or Walnut Vinyl
DIMENSIONS* ..... 13½" Wide x 30" High x 12½" Deep

SM 125

POWER RATING ..... 10-200 Watts
FREQUENCY RESPONSE ..... 32HZ-27kHz ± 3dB
CROSSOVER FREQUENCY 750Hz/5500Hz
EFFICIENCY ..... 100 dB SPL, 1 Watt/1 Meter
IMPEDANCE ..... Compatible with 4 to 8 Ohms
DRIVERS ..... 12" Polypropylene-Coated Woofer
4½" Polypropylene-Coated Midrange
1" High-Output Polycell Tweeter
CABINET FINISH ..... Black Ash or Walnut Vinyl
DIMENSIONS* ..... 14¾" Wide x 35¼" High x 12½" Deep

SM 155

POWER RATING ..... 10-300 Watts
FREQUENCY RESPONSE ..... 29Hz-27kHz ± 3dB
CROSSOVER FREQUENCY 500Hz/5500Hz
EFFICIENCY ..... 102 dB SPL, 1 Watt/1 Meter
IMPEDANCE ..... Compatible with 4 to 8 Ohms
DRIVERS ..... 15" Polypropylene-Coated Woofer
Two 4½" Polypropylene-Coated Midranges
1" High-Output Polycell Tweeter
CABINET FINISH ..... Black Ash or Walnut Vinyl
DIMENSIONS* ..... 17¾" Wide x 40" High x 12½" Deep

*CABINET DEPTH DIMENSIONS ARE WITH GRILLE REMOVED.

LIMITED WARRANTY

WHO IS PROTECTED BY THE WARRANTY?

Your Infinity warranty protects the original retail purchaser and all subsequent owners for a period of five (5) years (parts and labor) from any failure as a result of an original manufacturing defect so long as: (1) your Infinity loudspeaker was purchased within the fifty United States or by military personnel from an authorized military outlet, and (2) the original dated bill of sale is presented whenever service is required during the warranty period. This warranty does not apply to products purchased elsewhere; other purchasers should contact their local Infinity distributor for warranty information.

WHAT DOES THE INFINITY WARRANTY COVER?

Except as specified below, this warranty covers all defects in original materials and workmanship. The following are not covered: damage caused by accident, misuse, abuse, neglect, product modification; damage occurring during shipment; damage caused by failure to follow instructions in the owner's manual, including failure to perform recommended periodic or routine maintenance; damage resulting from repairs by someone not authorized by Infinity; claims based upon any misrepresentations by the seller; and any Infinity product on which the serial number has been altered, defaced or removed.

WHO PAYS FOR WHAT?

During the period of warranty, subject to the above conditions, Infinity will pay all of the labor and material expenses to repair a warrantable defect.

HOW CAN WARRANTY SERVICE BE OBTAINED?

In the event that your Infinity loudspeaker would require service, you should first contact the Infinity dealer from whom the product was purchased or, if this is not practical, contact Infinity directly (ATTN: Customer Service) at 9409 Owensmouth Avenue, Chatsworth, CA 91311; (818) 407-0228; FAX (818) 709-7496. We may direct you to an authorized service center for Infinity products or ask you to send them to us for repair. In either case, you must present your original dated bill-of-sale to establish warranty coverage. Do not send your speaker to us without prior authorization from our Customer Service Department.

You are responsible for transporting your product to either Infinity or an authorized service center and for payment of all shipping charges; however, Infinity will pay the return shipping charges (in the event you return the product to us) if the repairs are covered by warranty. If you experience difficulty in transporting your product or are in need of packing materials, please advise us and we may be able to suggest alternative procedures and/or provide adequate packing materials.

LIMITATION OF IMPLIED WARRANTIES:

All implied warranties, including fitness for a particular purpose and merchantability are limited in duration and length to the warranty period for your product.

LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES:

Infinity is not responsible for any incidental or consequential damage of any kind. Our liability is limited to the repair or replacement, at our option, of a defective product.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion of incidental or consequential damage, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

NOTE: In the event that there is a difference between this warranty and the provisions in any advertisements, product brochures or packaging cartons, the terms of this warranty will prevail.

FICHE TECHNIQUE

SM 65

GAMME DE PUISSANCE.....10-100 W
RÉPONSE EN FRÉQUENCE.....78 Hz-25 kHz + 3 dB
FRÉQUENCE-RELAIS.....4,5 kHz
RENDEMENT.....94 dB SPL/1 W/1 m
IMPÉDANCE.....Compatible 4 à 8 Ohms
HAUT-PARLEURS.....Woofer 165 mm revêtu de polypropylène
Tweeter Polycell™ 19 mm à haut rendement
FINITION DU COFFRET.....Vinyle noyer ou frêne noir
ENCOMBREMENT*.....20.3 cm de large sur 33.7 cm de haut et 19 cm de profondeur

SM 85

GAMME DE PUISSANCE.....10-125 W
RÉPONSE EN FRÉQUENCE.....42 Hz-27 kHz + 3 dB
FRÉQUENCE-RELAIS.....2800 Hz
RENDEMENT.....98 dB SPL/1 W/1 m
IMPÉDANCE.....Compatible 4 à 8 Ohms
HAUT-PARLEURS.....Woofer 203 mm revêtu de polypropylène
Tweeter Polycell 25 mm à haut rendement
FINITION DU COFFRET.....Vinyle noyer ou frêne noir
ENCOMBREMENT*.....28.6 cm de large sur 45.7 cm de haut et 26.7 cm de profondeur

SM 105

GAMME DE PUISSANCE.....10-150 W
RÉPONSE EN FRÉQUENCE.....35 Hz-27 kHz + 3 dB
FRÉQUENCE-RELAIS.....3300 Hz
RENDEMENT.....100 dB SPL/1 W/1 m
IMPÉDANCE.....Compatible 4 à 8 Ohms
HAUT-PARLEURS.....Woofer 254 mm revêtu de polypropylène
Tweeter Polycell 25 mm à haut rendement
FINITION DU COFFRET.....Vinyle noyer ou frêne noir
ENCOMBREMENT*.....30.5 cm de large sur 53.3 cm de haut et 30.5 cm de profondeur

SM 115

GAMME DE PUISSANCE.....10-175 W
RÉPONSE EN FRÉQUENCE.....35 Hz-27 kHz + 3 dB
FRÉQUENCE-RELAIS.....900 Hz/5500 Hz
RENDEMENT.....100 dB SPL/1 W/1 m
IMPÉDANCE.....Compatible 4 à 8 Ohms
HAUT-PARLEURS.....Woofer 254 mm revêtu de polypropylène
Médium 114 mm revêtu de polypropylène
Tweeter Polycell 25 mm à haut rendement
FINITION DU COFFRET.....Vinyle noyer ou frêne noir
ENCOMBREMENT*.....34.3 cm de large sur 76.2 cm de haut et 31.8 cm de profondeur

SM 125

GAMME DE PUISSANCE.....10-200 W
RÉPONSE EN FRÉQUENCE.....32 Hz-27 kHz + 3 dB
FRÉQUENCE-RELAIS.....750 Hz/5500 Hz
RENDEMENT.....100 dB SPL/1 W/1 m
IMPÉDANCE.....Compatible 4 à 8 Ohms
HAUT-PARLEURS.....Woofer 305 mm revêtu de polypropylène
Médium 114 mm revêtu de polypropylène
Tweeter Polycell 25 mm à haut rendement
FINITION DU COFFRET.....Vinyle noyer ou frêne noir
ENCOMBREMENT*.....37.5 cm de large sur 89.5 cm de haut et 31.8 cm de profondeur

SM 155

GAMME DE PUISSANCE.....10-300 W
RÉPONSE EN FRÉQUENCE.....29 Hz-27 kHz + 3 dB
FRÉQUENCE-RELAIS.....500 Hz/5500 Hz
RENDEMENT.....102 dB SPL/1 W/1 m
IMPÉDANCE.....Compatible 4 à 8 Ohms
HAUT-PARLEURS.....Woofer 381 mm revêtu de polypropylène
Deux médiums 114 mm revêtus de polypropylène
Tweeter Polycell 25 mm à haut rendement
FINITION DU COFFRET.....Vinyle noyer ou frêne noir
ENCOMBREMENT*.....43.8 cm de large sur 101.6 cm de haut et 31.8 cm de profondeur

* PROFONDEUR DU COFFRET SANS HABILLAGE

SEE PAGE 4 FOR U.S. SPECIFICATIONS

Infinity®

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

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