

IP SERIES In-Ceiling Speakers

IPRD6.5 / IPRD6.5ST / IPRD8



IPRD8 Speaker

OWNER'S MANUAL

Introduction

Thank you for your purchase and welcome to the growing community of satisfied OMAGE listeners. Please read the following installation and operation guidelines carefully to ensure enjoyment of your custom installed home audio system, for years to come. All OMAGE speakers should be set-up and installed by authorized and duly licensed technicians.

Your OMAGE IN-PERFORMA are designed to blend seamlessly into your home interior while providing superior sound quality.

At OMAGE, we continuously strive to improve our products. For this reason, we reserve the right to change product specifications without notice. The information concerning product specifications and instructions in this manual do not necessarily set forth all technical or other specifications of OMAGE Products.

For more information about our company and our products, please visit our website at www.omageusa.com.

OMAGE®

Features and Benefits

Your OMAGE IN-PERFORMA speakers are designed to blend seamlessly into your home interior while providing superior sound quality.

Installation

All OMAGE IN-PERFORMA products feature a self-engaging mounting system that does not require brackets. Simply cut a hole in the mounting surface, then remove the grille from the frame. Then tighten the four or six mounting “dogs” using the front panel screws. The dogs will automatically rotate 90 degrees then clamp the speaker frame to the mounting surface as you tighten the screws. Do not over tighten. Connect the wires and mount the baffle back on the frame.

Pre-Construction Bracket

IN-PERFORMA offers pre-construction brackets with all its custom installed speakers. The pre-construction brackets can be installed where the speakers will be mounted before the drywall goes up. The drywall contractor will cut the corresponding holes as the drywall is installed. This reduces the installation time and allows for pre-planned wiring.

Cut-Out Template and Paint Mask

All IN-PERFORMA speakers includes a Cut-out template and paint mask. The Cut-out template allows the installer to accurately measure the hole to be cut in the dry wall. The Paint mask provides protection for the woofer and tweeter while painting the speakers frame and grille.

Stable Tweeter Housing

The two-piece baffle design allows the tweeter to be directly mounted on the bridge itself rather than the pole mounting found in most current designs. This setup allows the speaker to handle more power with increased cone stability, resulting in decreased harmonic distortion.

Installation - Important Safety Instructions

Do not use this or other electrical equipment near water or other liquids.

Clean only with a dry cloth.

Do not block any ventilation openings. Install in accordance with all safety standards and regulations.

Do not install near any heat sources such as stoves, radiators, heat registers, amplifiers or any other apparatus producing heat.

Use attachments and accessories as indicated by the manufacturer.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

No user-serviceable parts inside. Refer all servicing to qualified service personnel.

Warning: To reduce the risk of fire or electrical shock, do not expose this apparatus to rain, other liquids or moisture.

Warning: To prevent injury, this apparatus must be securely attached to the wall/ceiling in accordance with the installation instructions. No naked flame sources such as candles should be placed close to the product.

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's warranty to operate this device.

IP Series Speaker Installation Guide

At OMAGE, we continuously strive to improve our products. For this reason, we reserve the right to change product specifications without notice. The information concerning product specifications and instructions in this manual do not necessarily set forth all technical or other specifications of OMAGE products. Additional information can be obtained on-line at www.omegeusa.com

IP Series Speaker Placement

With OMAGE., realizing maximum sound performance is always the goal. The pivoting tweeters in OMAGE speakers are able to compensate for unusual placements. However, placing speakers at equal distance from the intended listening area and along a common wall is generally recommended as the ideal acoustical set-up. This helps to ensure the best stereo effect. Where the intended listening position may vary widely, speaker placement may be wherever is most convenient.

OMAGE custom install speakers are designed to function in any standard wall, ceiling or drop ceiling.

DISTRIBUTED AUDIO PLACEMENT

OMAGE speakers possess extremely smooth predictable off-axis frequency response. The chart below shows how far apart the speakers can be placed in a distributed audio system. The calculations are based on +/- 45 degrees of coverage from the speaker, and listeners ear heights of 62" for standing and 40" for seated.

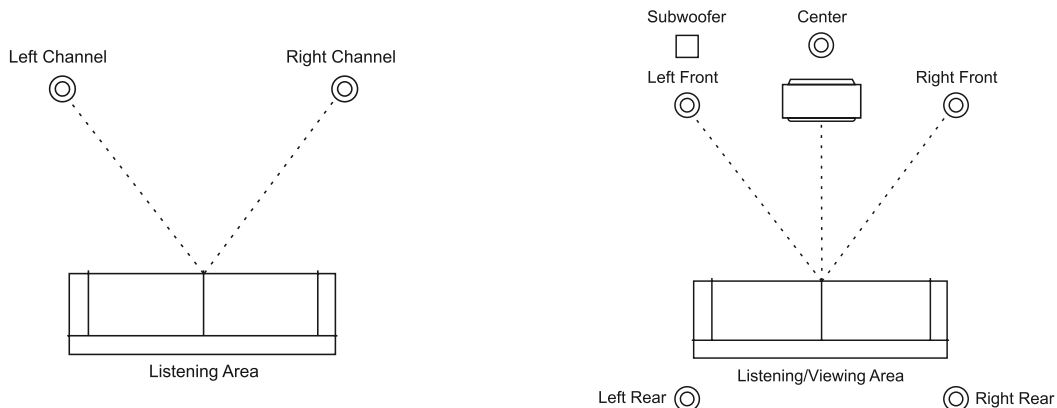
Speakers spacing	Standing Listener	Seated Listener
8 foot ceiling	5.7'	9.5'
10 foot ceiling	9.7'	13.5'
12 foot ceiling	13.7'	17.5'
14 foot ceiling	17.7'	21.5'

2 CHANNEL AUDIO PLACEMENT

In a standard two channel audio system, the speakers should be separated approximately 6 - 10 feet apart. If possible, the left and right speakers should be located the same distance from the listening position.

HOME THEATER PLACEMENT

When using the speakers as a rear channel speaker, the speakers should be located from 2 to 6 feet behind the main listening position. The speakers should be separated approximately 6 to 10 feet apart.



WIRE GAUGE AND QUALITY

The total wire resistance should be less than 10% of the speaker impedance. If using an 8 ohm speaker, your total wire resistance be no more than 0.8 ohms.

in simple terms, the extra resistance from the wire will have a very negative effect on the sound quality of the speaker. The sound can be less dynamic, definition of bass frequencies can be reduced, and in extreme cases, the high frequencies can be attenuated. Amplifier power is also wasted in the wire, reducing the maximum output level of the system.

Please refer to the following chart when deciding on the appropriate wire gauge for your installations.

Wire resistance in ohms vs. length of cable run						
Distance in feet	50'	100'	150'	200'	250'	300'
20 gauge	.86	1.73	2.59	3.45	4.32	5.18
18 gauge	.65	1.30	1.94	2.59	3.24	3.89
16 gauge	.43	.85	1.28	1.71	2.14	2.56
14 gauge	.27	.54	.81	1.08	1.35	1.62
12 gauge	.17	.34	.51	.68	.85	1.02
10 gauge	.11	.22	.33	.44	.56	.67

New Construction

Drywall Installations

Drywall or other mounting surfaces should be at least 3/8" thick to ensure safety and speaker stability. Speaker placement should be planned to accommodate practical considerations such as wiring path and installation surfaces. Your professional installer will be able to advise you of the best layout.

Contents Description Quantity

- Speaker Modules -2 (single in-wall stereo Models -1)
- Grilles -2 (single in-wall stereo Models -1)
- Screws #6 4 to 8 pieces depending on model
- Paint Masks -2 (single in-wall stereo Models -1)
- Cut-out Template -2 (single in-wall stereo Models -1)
- Pre-construction Brackets included

Tools Required

- #2 Phillips Screwdriver
- Hole Saw

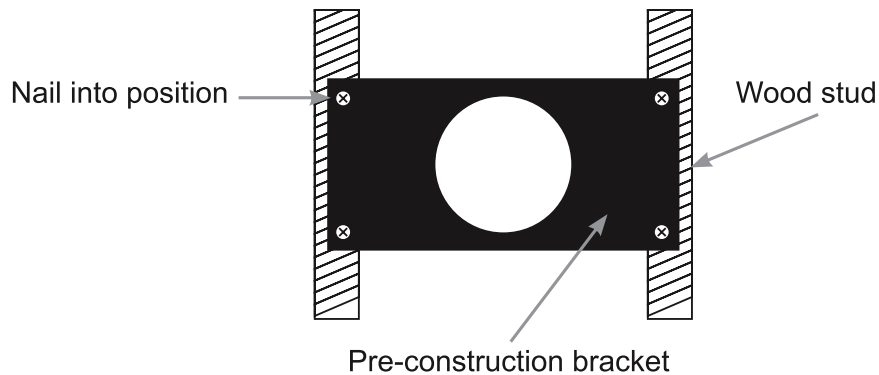
PAINTING THE SPEAKERS AND GRILLES

Speaker baffle and grilles can be painted before installation, which will eliminated the "paint scar" if the speaker needs to be removed for service. Speakers may also be painted after installation, but before the grilles are attached. All speakers come from the factory with paint mask included. Use the paint mask to protect the drivers while the baffle is being painted with the ceiling.

Pre-Construction Brackets

Pre-construction brackets are available with all OMAGE IPRD Series custom installed speakers. These brackets are measured to fit standard 16"/24" wood stud intervals.

1. Nail or Staple the pre-construction brackets to the stud in the planned speaker position. With the flange of the speaker cut out facing out.
2. As the drywall installer is working, they can accurately cut-out the necessary hole for your speaker reducing installation time and debris when the speakers are being installed.



OMAGE suggests always painting the grilles separate from the speaker. The grilles may be lightly sprayed with thin paint (5 parts thinning agent to 1 part paint), but be careful not to plug the holes. Too much paint will adversely affect the sound of the speaker.

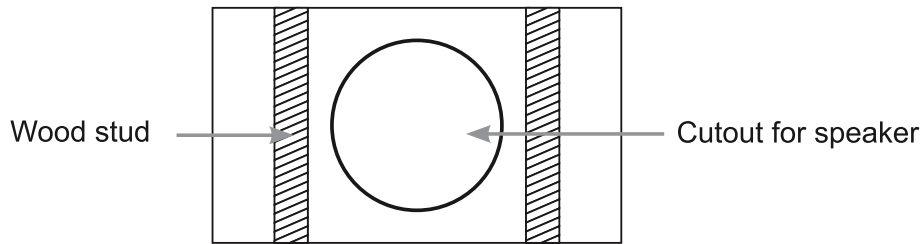
Once the grilles and baffle are painted and dry, remove the paint mask from the baffle and install the grilles. OMAGE in-wall frames and grilles are designed to accept most types of paint. Care should be taken to avoid excessive paint build-up in the grille perforations.

3. Once the hole is cut, clean all edges and debris from the area. Attach the wire from your amplifier to the terminals on the back of the speaker. Double check the polarity of the speaker wires, amplifier + to speaker + and amplifier - to speaker - proper polarity is critical In home theater installation.
4. Insert the frame into the wall opening and attach to the mounting surface by tightening the screws to engage the swinging "dog" connectors. The frame's mounting dogs will "sandwich" the wall and frame together.
5. Install the module and press the grille in place. Start the insertion of the grill on one edge and slowly work your fingers around the grille edges. Make sure all edges are in the groove before you apply pressure. Do not push hard. If the grille is not going in, this means not all edges are in the groove. Ease off grille and start over.

OMAGE In-ceiling speakers feature swiveling tweeters to aim sound directly at the listening area, simply removed the grille and gently adjust the tweeter to the desired position.

Existing Construction

1. Cut the appropriate size opening in the wall using the cutout template provided. Be careful not to cut through any existing wiring or plumbing. Note: Avoid compromising any fire stops between studs.
2. Run wiring to the wall opening(s). Be sure to comply with any codes that may apply in your area.



PAINTING THE SPEAKERS AND GRILLES

Speaker baffle and grilles can be painted before installation, which will eliminate the “paint scar” if the speaker needs to be removed for service. Speakers may also be painted after installation, but before the grilles are attached. All speakers come from the factory with paint mask included. Use the paint mask to protect the drivers while the flange is being painted with the ceiling.

OMAGE suggests always painting the grills separate from the speaker. The grilles may be lightly sprayed with thin paint (5 parts thinning agent to 1 part paint), but be careful not to plug the holes. Too much paint will adversely affect the sound of the speaker.

Once the grilles and baffle are painted and dry, remove the paint mask from the baffle and install the grilles.

3. Attach the wire from your amplifier to the terminals on the back of the speaker. Double check the polarity of the speaker wires, amplifier + to speaker + and amplifier - to speaker - proper polarity is critical In home theater installation.

4. Insert the frame into the wall opening and attach to the mounting surface by tightening the screws to engage the swinging “dog” connectors.

Do not overtighten. The frame’s mounting dogs will “sandwich” the wall and frame together. The module is installed with the screws and the grille is pressed into place.

5. Install the module and press the grille in place. Start the insertion of the grill on one edge and slowly work your fingers around the grille edges. Make sure all edges are in the groove before you apply pressure. Do not push hard. If the grille is not going in, this means not all edges are in the groove. Ease off grille and start over.

OMAGE in-ceiling frames and grilles are designed to accept most types of paint. Care should be taken to avoid excessive paint build-up in the grille perforations.

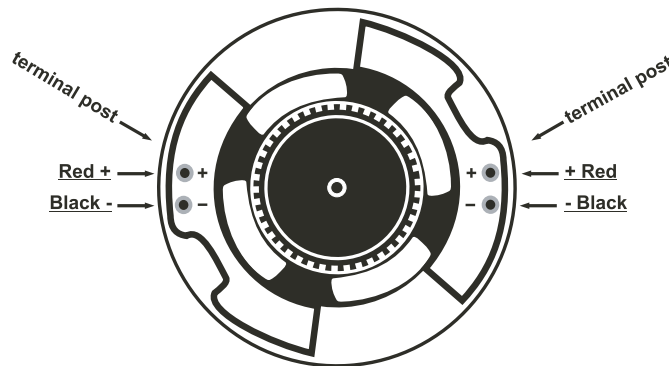
6. If you want to paint the decorative frame and the wall together, insert the frame and attach with the dogs.

7. If you will not be re-painting, you may immediately install the frame and speaker assembly. The frame’s mounting dogs will “sandwich” the wall and frame together. The module is installed with the screws and the grille is pressed into place.

IP SERIES

The IPRD6.5, IPRD6.5ST and the IPRD8 speakers use the same installation directions as all OMAGE IN-PERFORMA speakers. Please pay close attention to the wiring of the speakers. The single in-ceiling series produces the left and right audio signal from one speaker. The crossover on the back of the speaker, shown below features two pairs of push-to-connect gold terminals.

Attach the wire from your amplifier to the terminals on the back of the speaker. Double check the polarity of the speaker wires, amplifier +to speaker+and speaker- proper polarity is critical. The left and right channels are the same regardless of which side you connect the speaker wires.



ADJUSTING YOUR SPEAKERS

Note: Do not apply pressure to the tweeter dome. The pivoting tweeter can direct sound toward or away from the listening area. To pivot the tweeter, apply light pressure to the plastic ring around the outside edge of the tweeter.

Here are some suggestions:

Orient the pivoting tweeter toward the listening area if the speakers are widely separated and the music fails to blend into a central image when the system is operated in stereo.

If you are using the speakers as channels in a home theater you can point the pivoting tweeter towards a wall or window to create a diffuse surround affect.

If you have any questions about how the pivoting tweeter should be adjusted, consult your authorized OMAGE dealer.

IP Series In-Ceiling Speaker Specifications



IPRD6.5 6.5" In-ceiling Speaker

Woofers: 6.5" Woven Kevlar cone, rubber surround, 18oz Magnet, 1" voice coil, Bumped back plate, vented pole piece

Tweeter: 1" Titanium Dome tweeter, Ferro-fluid cooled, Neodymium magnet, Swivel 30 degrees

Crossover: Phonic PCB board, 18dB woofer section, 18dB tweeter section, polymide auto protective reset switch for tweeter

Attenuation switches: ± 3dB on woofer and tweeter

Frequency response: 48Hz~22kHz

Sensitivity: 88dB

Recommended amplifier power: 10~125W

Impedance: 4ohm / 8ohm switch-able on PCB

Cut out size: 7.95"

Weight (pair pack): 11 lbs

Dimensions (pair pack): 15.5"(H) X 11.5"(W) X 11"(L)

Paint mask and cut out template included



IPRD6.5ST 6.5" In-ceiling Stereo Speaker

Woofers: Dual 1" voice coil, 6.5" Woven Kevlar cone, rubber surround, 18oz Magnet, Bumped back plate, vented pole piece

Tweeter: 2 x 1" Titanium Dome tweeter, Ferro-fluid cooled, Neodymium magnet, Swivel 30 degrees

Crossover: Phonic PCB board, 12dB woofer section, 12dB tweeter section, polymide auto protective reset switch for tweeter

Frequency response: 48Hz~22kHz

Sensitivity: 88dB

Recommended amplifier power: 10~125W per channel

Impedance: 8 ohm

Cut out size: 7.95"

Weight (pair pack): 6 lbs

Dimensions (pair pack): 8"(H) X 11"(W) X 11"(L)

Paint mask and cut out template included



IPRD8 8" In-ceiling Speaker

Woofer: 8" Woven Kevlar cone, rubber surround, 25oz Magnet, 1.25" voice coil, Bumped back plate, vented pole piece

Tweeter: 1" Titanium Dome tweeter, Ferro-fluid cooled, Neodymium magnet, Swivel 30 degrees

Crossover: Phonic PCB board, 18dB woofer section, 18dB tweeter section, polymide auto protective reset switch for tweeter

Attenuation switches: +/- 3dB on woofer and tweeter

Frequency response: 45Hz~22KHz

Sensitivity: 89dB

Recommended amplifier power: 10~150W

Impedance: 4ohm / 8ohm switch-able on PCB

Cut out size: 9.64"

Weight (pair pack): 15.75 lbs

Dimensions (pair pack): 13.75"(H) X 13"(W) X 17.75"(L)

Paint mask and cut out template included

Warranty

OMAGE USA Limited Warranty

OMAGE USA warrants this product to the original purchaser to be free from defects in materials and workmanship (subject to the terms set forth below), for a period of five (5) years from the date of purchase. OMAGE USA will repair or replace (at OMAGE USA option) this product or any defective parts.

Your authorized OMAGE USA dealer will inspect the product and, if your dealer is not equipped to perform the repair of your OMAGE USA product, they will replace your product or return it to OMAGE USA for repair, at their discretion. Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from this product. This warranty is invalid if this product was not purchased from a OMAGE USA Authorized dealer.

Cosmetic damage or damage due to accident, acts of God, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product are not covered in this warranty. This warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than OMAGE USA or a OMAGE USA dealer which is authorized. Any unauthorized repairs will void this warranty.



IPRD SERIES OWNER'S MANUAL

Name: _____

Street Address: _____ Zip: _____

City & State: _____

Home Phone: _____

Work Phone: _____

e-mail Address: _____

Model and Serial Number: _____

Model and Serial Number: _____

Model and Serial Number: _____

WARRANTY

IN-PERFORMA Loudspeakers

In-Performa Speakers are warranted to the original purchaser against original factory defects in material or workmanship for a period of 5 years. The warranty does not cover misuse. The period is based on the date of the original purchase. The warranty is only valid in the country of purchase. The warranty is non-transferable. It is valid only when purchased from an authorized **OMAGE** dealer.

For the warranty to remain valid, all servicing must be done by **OMAGE** or our duly authorized service facility. In the event that service is required, contact the authorized **OMAGE** dealer from whom you purchased the equipment. After receiving written authorization and instructions from the dealer, return the equipment, freight prepaid, and packed in the original carton with the original packing material and we suggest you insure the shipment to cover possible damages in transit. **OMAGE** will not be liable for damages in transit to its facilities. Include a written description of the claimed defect and your original sales slip showing date of purchase.

In the United States
OMAGE USA Corp. P.O. Box 124,
Montgomery Center, Vermont, 05471

In Canada
OMAGE USA Corp. 5645 rue Paré
Montréal, Qc H4P 1S1





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