

NEAR[®]



IG4M

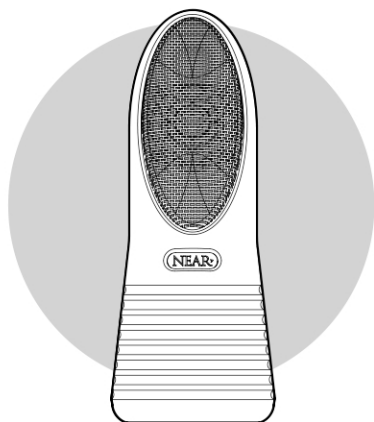
**ALL-ENVIRONMENT, IN-GROUND,
OUTDOOR LOUDSPEAKER**

**QUICK START INSTALLATION
AND SETUP GUIDE**

NEAR[®]

IG4M

ALL-ENVIRONMENT, IN-GROUND, OUTDOOR LOUDSPEAKER



The NEAR[®] IG4M is a limited bandwidth "satellite" speaker, intended to be used with a subwoofer and a power amplifier with a 90Hz, 18dB/octave high pass filter (crossover) like that provided by NEAR XL series amplifiers. Its 120-degree wide dispersion means fewer speakers are needed to cover an area with high clarity sound than competing systems with 60-degree dispersion; every listener in the coverage area will hear full performance sound without overly loud "hot" and low-fidelity "dead" zones

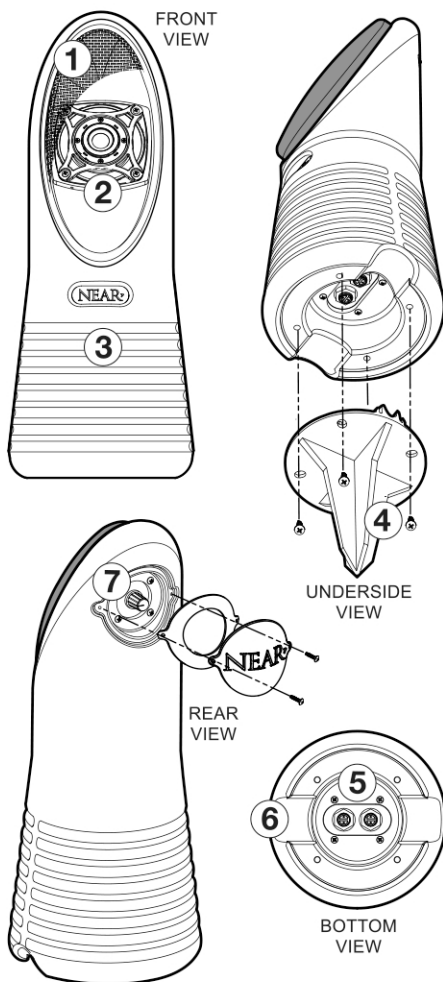
The IG4M provides maximum system design and wiring flexibility. Integrators can choose to power the IG4M satellite speakers with a low impedance amplifier or a 70V line. Selection of 70V power levels or low impedance operation is made via a rotary switch located under a protective cover. On the underside of the IG4M enclosure are two IP-67 rated "Perfect Fit" connectors that allow convenient daisy chain wiring of multiple speakers on a single signal line. The supplied connector socket and plugs are keyed to prevent wiring polarity problems while their double O-ring design prevents ingress of water and dirt for long-term signal integrity.

The IG4M speakers are truly weather-proof, not just "weather-resistant," and can be used when totally exposed to the elements. The enclosures are color-through, Linear Low-Density Polyethylene that sheds moisture, dirt and chemicals. The UV inhibitor pigments are embedded uniformly throughout the material so the sun won't fade the speaker's color.

Best of all is the sound quality. The IG4M's wide dispersion design and high tech components ensure well-balanced, life-like sound at every volume level without fatigue. The IG4M satellite speakers utilize Metal Diaphragm Technology (MDT) woofers and 1-inch metal alloy tweeters both with Magnetic Liquid Suspension (MLS) technology.

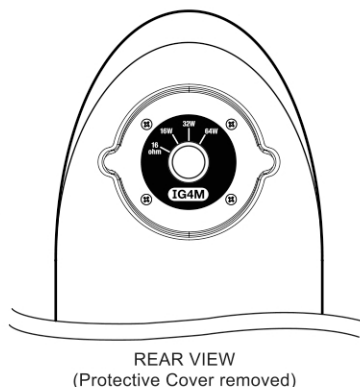
1 NEAR IG4M Loudspeaker Features

1. Protective Grille
2. Metal-Alloy Woofer and Tweeter Diaphragms
3. Ultra-rugged Molded Enclosure with UV Inhibitors
4. Included Speaker Ground Stake for on-ground mounting
5. Two (2) IP-67 Rated “Perfect Fit” connector sockets
6. Wiring/Conduit Channels (underside)
7. 70V/16-ohm Rotary Switch located under protective cover (see section 2)



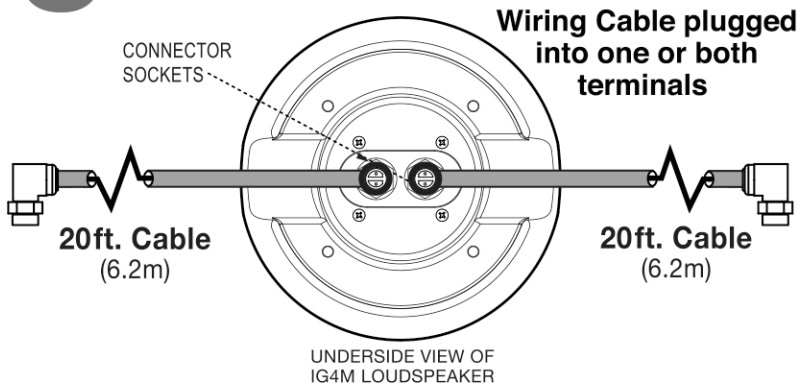
2 IG4M Power Setting Rotary Switch Selector

Integrators can choose to power the IG4M satellite speakers with a low impedance amplifier or a 70V line. Selection of 70V power levels or low impedance operation is made via a rotary switch located under a protective cover. When used in low impedance mode, the satellite's 16-ohm load allows up to four IG4Ms to be paralleled and safely driven by typical AV receivers.

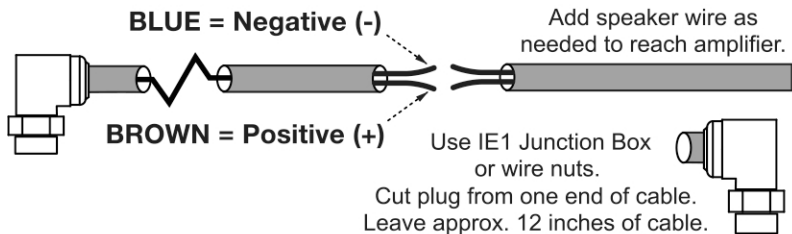


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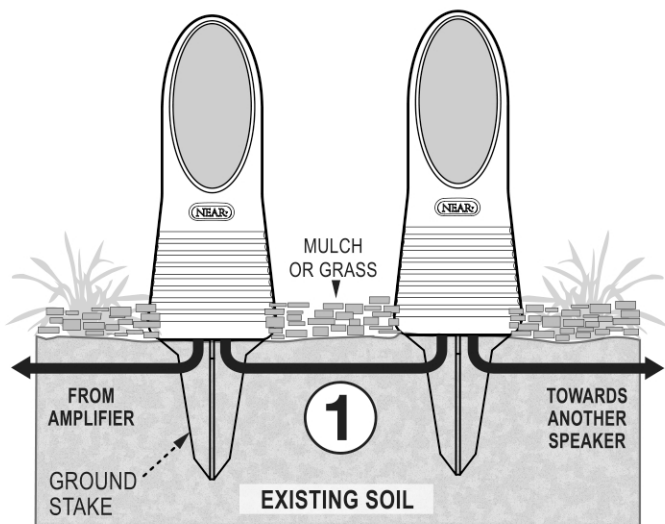
Wiring using IG4M "Perfect Fit" Connector Sockets



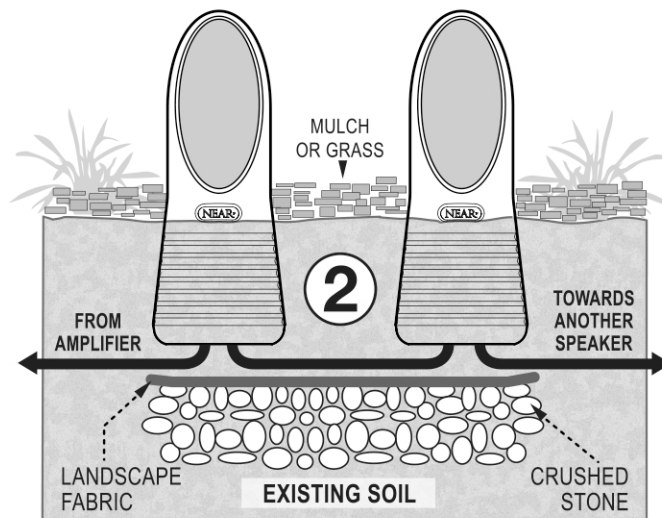
Detail showing cable being cut for the first speakers in a chain to extend the length



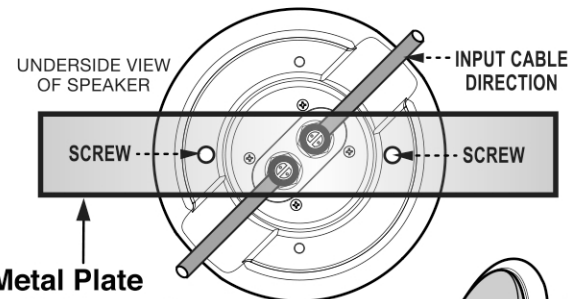
4A IG4M In-Ground or On-Ground Installation



An IG4M speaker may be placed on the surface using the supplied ground stake to secure the speaker into position (see example 1). If you choose to partially bury the IG4M (up to the bottom of the speaker's grille, maximum), it is not necessary to use the ground stake. To ensure better drainage, it is good practice to add a few inches of crushed stone, covered by a layer of landscape fabric. Pack the earth around the speaker as tightly as possible so as to keep large amounts of water from streaming down the sides of the enclosure and into the excavated hole (see example 2). If the water table is unusually high at the speaker location, see section 4B for further instructions.



4B Securing an IG4M in the ground when area water table is high or frequent soaking occurs

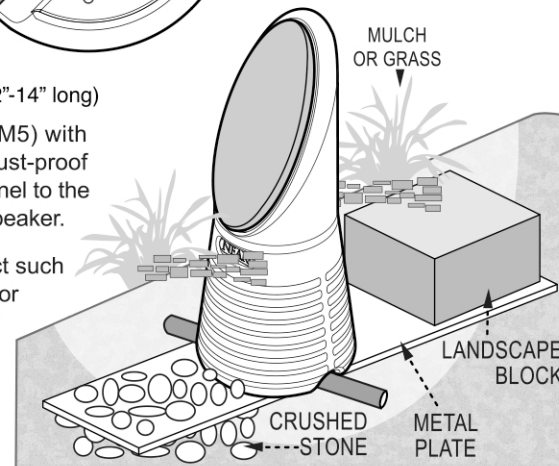


Metal Plate or U-Channel

(approx. 2"-6" wide x 12"-14" long)

Use two (2) screws (M5) with washers to attach a rust-proof Metal Plate or U-Channel to the bottom of the IG4M speaker.

Use a weighted object such as a landscape block or heavy stone to further secure the speaker during soaking or flooding conditions.



5A

IG4M Wiring Connection: Low Impedance System

Each IG4M speaker is set to 16 ohm (factory setting). This result is a 4-ohm load at the amplifier. The subwoofer in the example, NEAR IGS100M/K, is wired as a 4 ohm speaker (there are two voice coils in parallel). See Section 2 on the Switch Diagram.

FOR NEARSCAPES IG44.1 SYSTEMS:

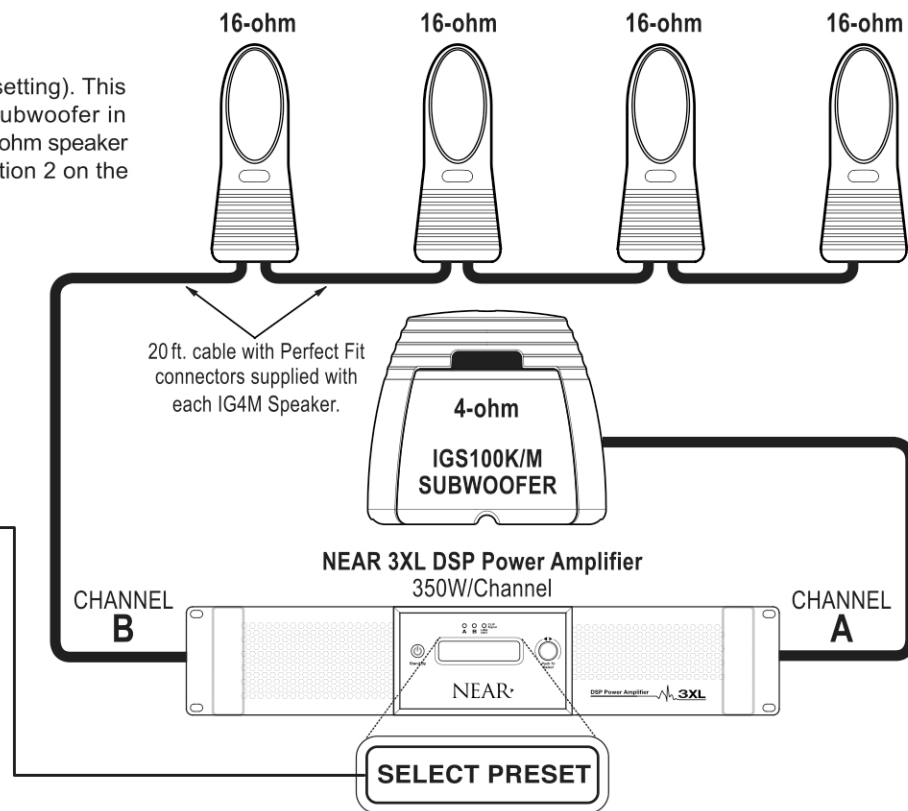
NEAR 3XL/7XL Power Amplifiers have PRESETS specific to this system. Select for easy system setup:

U-NS IG44.1DSP

For other speaker combinations, consult the NEAR XL amplifier manual.

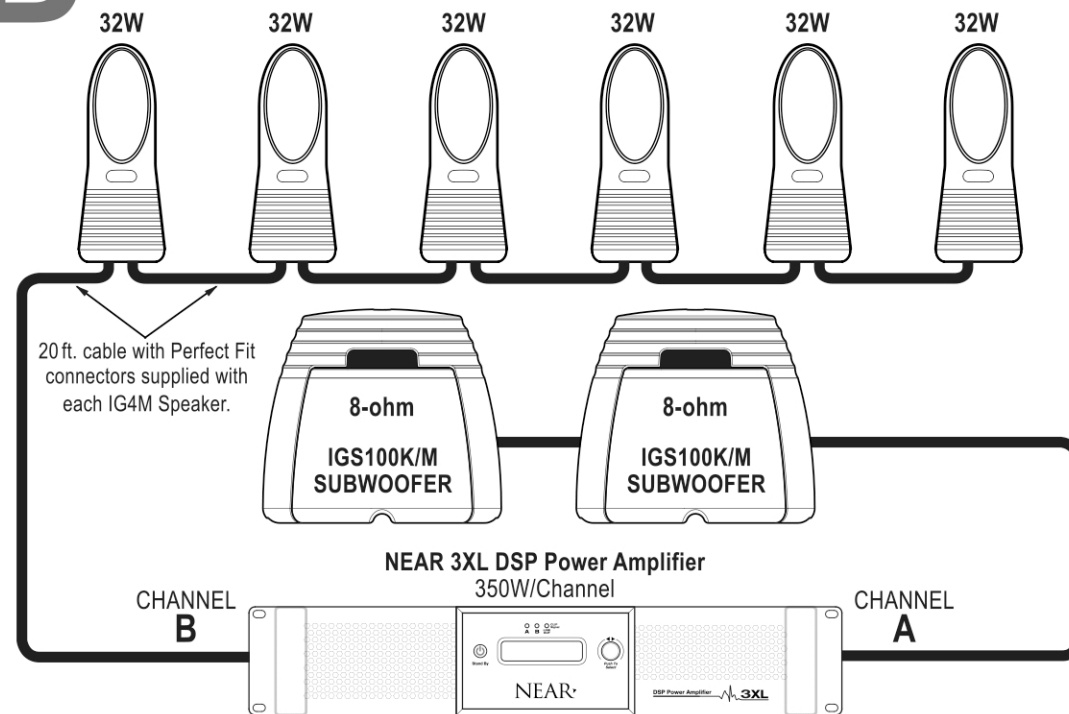
ALTERNATIVE:

NEAR 3XL/7XL Power Amplifiers have cross-over and equalization PRESETS specific to various combinations of this speaker with NEAR subwoofers. Consult the XL amplifier manual for easy system setup setting.



5B

IG4M Wiring Connection: 70V/8-ohm Hybrid System



(A maximum of $10 \times 32W = 320W$ on one channel of the 3XL amplifier)

Example of a Hybrid System: 4 ohms on Channel A (subwoofers), 70V on Channel B with each IG4M speaker set to the 32W position.

LIMITED WARRANTY: Exclusion of Certain Damages

The **NEAR® IG4M Loudspeaker** is warranted to be free from defects in material and workmanship for 5 (five) years from the date of sale to the original purchaser. Any part of any NEAR product covered by this warranty that, with normal installation and use, becomes defective (as confirmed by Bogen upon inspection) during the applicable warranty period, will be repaired or replaced by Bogen, at Bogen's option, provided the product is shipped insured and prepaid to: Bogen Factory Service Department: 4570 Shelby Air Drive, Suite 11, Memphis, TN 38118, USA. Repaired or replacement product will be returned to you freight prepaid. This warranty does not extend to any of our products that have been subjected to abuse, misuse, improper storage, neglect, accident, improper installation or have been modified or repaired or altered in any manner whatsoever, or where the serial number or date code has been removed or defaced.

THE FOREGOING LIMITED WARRANTY IS BOGEN'S SOLE AND EXCLUSIVE WARRANTY AND THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR NEAR PRODUCTS. BOGEN MAKES NO OTHER WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED AND EXCLUDED TO THE MAXIMUM EXTENT ALLOWABLE BY LAW. Bogen's liability arising out of the manufacture, sale or supplying of NEAR products or their use or disposition, whether based upon warranty, contract, tort or otherwise, shall be limited to the price of the product. **IN NO EVENT SHALL BOGEN BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF DATA OR LOSS OF USE DAMAGES) ARISING OUT OF THE MANUFACTURE, SALE OR SUPPLYING OF NEAR PRODUCTS, EVEN IF BOGEN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSSES.** Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion 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.

NEAR products that are out of warranty will also be repaired by the Bogen Factory Service Department -- same address as above or call 201-934-8500. The parts and labor involved in these repairs are warranted for 90 days when repaired by the Bogen Factory Service Department. All shipping charges in addition to parts and labor charges will be at the owner's expense. All returns require a Return Authorization number. For most efficient warranty or repair service, please include a description of the failure.

Products manufactured and labeled by other companies may be covered by warranties offered by such companies. Please call Bogen Customer Service or refer to product packaging for manufacturer's warranty for non-NEAR branded products.

11/2014



YOU MUST ACCURATELY FOLLOW THE INSTRUCTIONS FOR ALL THE PARTS INVOLVED IN THIS INSTALLATION. FAILURE TO DO SO CAN CAUSE SERIOUS INJURY OR DEATH TO YOURSELF OR OTHERS AND MAY EXPOSE YOU TO POSSIBLE LEGAL ACTION.

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