

DI SERIES OWNER'S MANUAL

Models: 3.5R, 4.5R, 5.5R, 6.5R, BR, 6.5STR, 5.5S and 6.5S



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**AVAILABLE AT
DIGITAL CINEMA**

Definitive Technology®
The Leader in High-Performance Loudspeakers®

Thank You

Thank you for choosing the Definitive Technology Disappearing In-Wall loudspeakers. The Di Series products offer extraordinary sound quality from speakers that are barely visible when installed in a wall or ceiling. Our engineers spent many years developing this product. In order to ensure that you experience the finest performance possible, we encourage you to take a moment to fully read this owner's manual and familiarize yourself with the proper installation and setup procedures for your Di Series speakers.

Unpacking Your Disappearing In-Wall Speakers

Please Inspect For Shipping Damage

Each loudspeaker leaves our plant in perfect condition. Any visible or suspected damage most likely occurred in handling after it left our plant and should be reported at once to your Definitive dealer or the delivery company that delivered your loudspeakers. Please inspect your system carefully. Save all cartons and packing materials in case you ever need to ship your system. Record the serial number found on the back of the speakers, and on the cartons, in this manual and save it for future reference should your speaker need service. For your best protection, register your Di Series products on-line at www.definitive.com/definitivemedia.com.

Di Series



Di 3.5B



Di 4.5B



Di 5.5B



Di 6.5B



Di 6.507R



Di 8B



Di 3.5S



Di 6.5S

Painting Di Series Speakers

Your Di Series speakers may be painted to match the color of the wall or ceiling to which they are installed. Failure to follow the following painting instructions may result in seriously degraded sound quality. It is your responsibility to make sure your painting contractor sees and follows these instructions.

1. **DO NOT PUNCTURE THE GRILLE WITH A BRUSH OR BOLLARD** — they will dig the fine mesh of the grille and distort cones and result in poor sound quality.
2. Remove the grille from the speaker and place it on a deep cloth, newspaper or plastic sheet.
3. The grille **MUST** be spray painted with one of the following:
 - Spray paint that closely matches the desired finish/color
 - A custom spray finish, color matched to your paint finish
 - Induce latex paint using a spray gun (paint must be diluted to the paint manufacturer's specifications)
4. Removing the backing cloth (padding) is not required.
5. Paint should be applied in a series of thin coats sprayed at approximately 45 degrees from the grille surface, allowing each coat to fully cure before applying additional coats.
6. To ensure that the paint distribution is evenly applied, each coat should be applied from at least 4 different directions to the grille (N, S, E & W). This will ensure an even coverage on the grille.
7. Once the grille has been painted and the paint has fully cured, you may use a brush, or small roller to touch up the outer edge of the grille frame — being VERY careful not to get any additional paint on the grille mesh surface.



Figure 1



Figure 2

Optional Fire-Rated Enclosures

Definitive Di Series speakers have been designed to meet UL 1489 and E841 standards when used with the appropriate optional Definitive fire-rated enclosures. All plastic parts used in the speakers are V0 flame-rated as per UL 94.

While these enclosures are necessary in most countries for commercial and multi-family dwelling installations, residential customers may want to use them for added safety and/or to reduce the sound from "leaking" into adjacent rooms.



Figure 3

Placement Options

Definitive Technology Di Series Loudspeakers give you nearly endless placement options. But remember that placement choices for your Di wall speakers *mean* careful consideration, as installation requires that you cut a hole in your wall or ceiling! Fill a room with sound by installing Di wall speakers in nearly any wall or ceiling location although it is best to keep the speakers at least 2 feet (60 cm) from side walls (Figure 4). When using Di Series models in home theater applications, follow the guidelines (discussed in Figures 2, 3 and 4). Definitive Di Series In-Wall Loudspeakers have slanted tweeters that allow you to focus their sound forward or away from your listening area depending on the application.



Figure 4



Figure 5

Point tweeter in desired direction by turning the tweeter assembly.



Figure 6a

Push gently in direction of arrow to set angle.



Figure 6b

Aiming the Tweeter

A tweeter aimed toward your listening position improves imaging and detail. To aim the tweeter, first install the speaker in the desired location. Rotate the tweeter so that the arrow on the tweeter faceplate is pointing in the direction you wish to aim the tweeter (Figure 5) then gently push the tweeter in that direction (Figure 6). When using Di Series In-Wall Loudspeakers as front/rear/surround speakers or as stereo speakers in a distributed audio system, aim the tweeter toward the main listening position. For multiroom speakers installed in walls or ceilings, aim the tweeter toward the nearest reflecting surface (an adjacent wall or ceiling) for a more diffuse sound field. If you are driving the more direct sound, aim the tweeter at your listening position.

Environmental EQ (not included on Di 3.5R and Di 4.5R models)

If your listening room is very reflective, with smooth, flat walls, hardwood floors, and non-carpeted furniture, the sound will be overly "bright" and unnatural. Engaging the Environmental EQ feature (Figure 7) by selecting the "+" setting compensates for the effect of overly loud treble. If your room has a lot of absorbing surfaces such as carpeted furniture, heavy drapes and rugs, such that the speakers sound "dull," engage the "-" setting to boost treble response. Rotate the switch in the center position to rooms with a balance of reflecting and absorbing surfaces (most rooms fall into this category). **Note:** The Di 4.0RTR has a two position switch; the minus symbol "-" represents normal treble output and the plus symbol "+" represents treble boost.



Figure 7

Installation

Installation Cautions

Installation of Disappearing In-Wall Loudspeakers requires skill in using tools such as a drill, screwdriver, saw and putter tools. Installation also entails routing wires through walls. You should have a thorough understanding of local building and fire codes and a familiarity with the area behind the wall or ceiling into which you plan to install your speakers.

When routing holes in and routing wires through walls/ceilings you run the risk of cutting electrical wires or water pipes thereby causing safety hazards and property damage. If you are in any doubt that you possess the necessary skills or tools, contact your Dealer/retailer/Technology dealer, general contractor or a professional installer.

Required Tools

- Drill for marking the location of installation.
- Bubble level (the Di 3.5R and Di 4.0R models only)
- Keyhole saw, utility knife or material appropriate cutting implement for cutting drywall or other wall material.
- Phillips head screwdriver.
- Power drill with appropriate bit (optional, for starting wall cut).

Installation Procedure

- You must first install speaker wires that meet appropriate building and fire codes before installing the speakers. Use at least 18 gauge wire or better to ensure optimum sound quality.

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- Make sure the material into which you plan to mount the speaker (plywood, drywall, plaster, stone, etc.) can support the weight of the speaker (see specifications page for the weight of your model).

- Make sure the locations you select do not conceal studs, electrical wiring or plumbing. Prior to installation, hold the speaker with gaffers in your chosen location to make sure it sitsily clear obstacles such as studs, corners, beams, lighting fixtures and door/window frames. Your cabinet must be at least 2" (50 mm) from adjoining walls or ceiling, internal studs or plumbing.

- Using the supplied template, trace the installation location with a pencil. You can do this by holding the template in your preferred location and tracing around it. In the case of the rectangular models (DS 1.5B and DS 4.5B) use a bubble level to square and level the template. (Figures 8 & 9)

- Carefully cut the hole with the appropriate cutting tool for your wall or ceiling material. Start the hole by drilling a hole on the inside of the tracing (with the drill bit just inside the line). Use this hole to insert the saw or hole-saw and begin cutting (Figure 10). The holes for the DS 1.5B and DS 4.5B must be cut very precisely as their baffle are only 1/2" (12.7 mm) wide. We recommend using hole saws to cut the holes for these models — 2 1/2" for the DS 1.5B and a 3 1/2" for the DS 4.5B.



Figure 8



Figure 9



Figure 10

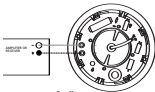


Figure 11a

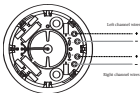


Figure 11b



Figure 12

- Once you have cut the hole, pull the speaker wire out of the hole and connect the speaker. Strip 1/2" (12 mm) of insulation from each of the two conductors of the wire to expose the bare metal and twist each of the conductors into a single unbundled strand. Note that one of the terminals on the rear of each speaker is marked red (r) and the other black (b). Make certain that you connect the wire from the red terminal (r) of your amplifier or receiver to the red terminal (r) on your speaker and the wire from the black terminal (b) of your amplifier or receiver to the black terminal (b) on your speaker. Most wire has some insulation (such as color coding, stripping or coating) on one of the two conductors to help you maintain consistency (Figure 11a). In the case of the DS 4.5XXX single speaker stereo model, both left and right channel speaker wires are connected to the speaker (Figure 11b).
- Push down on the top of the terminal to reveal the wire hole in the side of the terminal port and insert the wire into the hole (Figure 12). Release the pressure on the terminal to return the wire.
- Loosen the existing lock arms by turning the lock arm screws on the front of the speaker counter clockwise 0 to 1 turn, just enough to allow the lock arm to move freely (Figure 13). Make sure that the existing lock arms are flipped inward (Figure 14) so that your speaker fits into your cabinet.

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- Place the speaker carefully into the cabinet. If you have a level, use it to help you correctly align rectangular speaker models. Tighten the lock arm screws with a screwdriver (Figure 14). This will rotate the lock arms (Figure 15) and secure the speaker to the wall/cabinet. Do not over-tighten the lock arm screws. If you are using a power drill, set the torque to a value of 7 in. -lb (82N -cm).
- Install the grille on the speaker frame. Insert the magnets hold the grille in place.

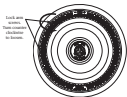


Figure 14

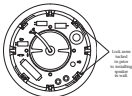


Figure 15

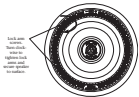


Figure 16



Figure 17

SAFETY FIRST

When installing your Di Series In-Wall Loudspeakers, be aware of the weight of your particular model (see specifications page for the weight of your model) and the sturdiness of the materials into which you are installing the speakers. Also be aware of any concealed studs, electrical wiring or plumbing in the wall or ceiling into which you are installing the speakers. If you are not sure of a safe way to install these speakers, consult a professional installer, your authorized Definitive Technology dealer, or a building contractor.

Technical Assistance

It is our pleasure to offer assistance if you have any questions regarding your Definitive loudspeakers. Please contact your nearest Definitive Technology dealer or call us directly at (800) 228-7148 (US & Canada), 01 (410) 361-7148 (all other countries) or e-mail info@definitive.com.

Service

Service work on your Definitive loudspeakers will normally be performed by your local Definitive Technology dealer. If your dealer is unable or unwilling to perform service contact us for alternative options. Please note that the address given in this manual is the address of our offices only. Under no circumstances should loudspeakers be shipped to our offices or returned without contacting us first and obtaining return authorization.

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WARNING: LISTEN CAREFULLY

Definitive Technology loudspeakers and subwoofers are capable of playing at extremely high volume levels, which could cause serious or permanent hearing damage. Definitive Technology accepts no liability for hearing loss, bodily injury or property damage resulting from the misuse of its products.

You should limit prolonged exposure to volumes that exceed 85 decibels (dB).

For more about safe volume levels refer to the Occupational Health and Safety Administration (OSHA) guidelines at www.osha.gov/dp/osta/otm/notes/standards_noise.html.

NOTES

Specifications

	DI 3.5R	DI 4.3R	DI 5.3R	DI 6.3R	DI 6.3SR	DI BR	DI 5.5S	DI 6.5S
Golf Diameter	41/16" (3.1875)	43/16" (3.3125)	7-3/8" (3.625)	6-5/8" (3.125)	6-5/8" (3.125)	7-1/4" (3.5)	—	—
Golf Length	—	—	—	—	—	—	3-1/8" (3.125)	3-1/8" (3.125)
Golf Width	—	—	—	—	—	—	—	—
Cart Diameter	31/4" (3.25)	41/2" (3.5)	6-5/16" (3.4375)	3-1/4" (3.25)	3-1/4" (3.25)	3-1/4" (3.25)	3-1/4" (3.25)	3-1/4" (3.25)
Cart Width	—	—	—	—	—	—	4-5/16" (3.3125)	3-1/4" (3.25)
Cart Length	—	—	—	—	—	—	4-5/16" (3.3125)	3-1/4" (3.25)
Total Depth**	7' 7' (3)	33/8" (3.625)	3-5/8" (3.625)	3-1/2" (3.5)	3-5/8" (3.625)	3-1/2" (3.5)	3-1/4" (3.25)	3-1/8" (3.125)
Mounting Depth to Wall**	31/2" (3.5)	33/8" (3.625)	3-5/8" (3.625)	3-1/2" (3.5)	3-5/8" (3.625)	3-1/2" (3.5)	3-1/4" (3.25)	3-1/8" (3.125)
Width	31/2" (3.5)	41/2" (3.5)	5-3/8" (3.375)	4-1/2" (3.5)	4-3/8" (3.375)	8" (2)	3-1/4" (3.25)	4-1/2" (3.5)
Height	3/4" (3)	3/4" (3)	7" (2)	7" (2)	2-1/4" (3)	7" (2)	7" (2)	7" (2)
Product Weight	1.9 lb. (3.3)	3.6 lb. (3.3)	3.7 lb. (3.3)	3.6 lb. (3.3)	4.6 lb. (3.3)	4.8 lb. (3.3)	3.8 lb. (3.3)	4.6 lb. (3.3)
Frequency Response	40 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz	20 Hz - 20 kHz
Sensitivity	87 dB	88 dB	89 dB	89 dB	90 dB	90 dB	89 dB	90 dB
Inputs	All models are compatible with 4 - 100 ohm output.							
Max/Min Recommended Power (W/DB)	10/120	10/120	10/120	10/200	10/120	10/200	10/120	10/200

* From back of mounting flange to deepest part of product

** Total depth when product installed in 1/2" (1.27cm) thick wall

LIMITED USA WARRANTY 5-YEARS FOR DRIVERS AND CABINETS, 3-YEARS FOR ELECTRONIC COMPONENTS

DIET Electronics Co., the Definitive Technology (herein "Definitive") warrants to the original retail purchaser only that this Definitive Technology product (the "Product") will be free from defects in material and workmanship for a period of five (5) years covering the drivers and cabinets, and three (3) years for the electronic components from the date of the original purchase from a Definitive Authorized Dealer. If the Product is defective in material or workmanship, Definitive or its Authorized Dealer will, at its option, repair or replace the warranted product at no additional charge, except as set forth below. All replaced parts and Products become the property of Definitive. Product that is repaired or replaced under this warranty will be returned to you, within a reasonable time, freight collect. This warranty is non-transferable and is automatically void if the original purchaser sells or otherwise transfers the Product to any other party.

This Warranty does not include service or parts to repair damage caused by accidents, misuse, abuse, negligence, inadequate handling or shipping procedures, commercial use, change in status of the rated maximum of the unit, excessive appearance of ordinary use, already attributable to defects in material or workmanship. This warranty does not cover the elimination of externally generated noise or music, or the correction of antenna problems or sound reception. This warranty does not cover labor costs or damage to the Product caused by installation or removal of the Product. Definitive Technology makes no warranty with respect to its products purchased from dealers or outlets other than Definitive Technology Authorized Dealer.

THE WARRANTY IS EXCLUSIVE AND LIMITED TO:

- 1) The product(s) have damaged, altered in any way, misused during transportation, or repaired with.
- 2) The product(s) damaged due to accident, fire, flood, unreasonable use, misuse, abuse, consumer applied damage, failure to observe manufacturer's warnings, neglect or natural causes.
- 3) Repair or modification of the Product that has been made or authorized by Definitive Technology.
- 4) The product(s) have improperly installed or used.

Product must be returned (boxed and properly sealed) with the original dated proof of purchase to the Authorized Dealer from whom the Product was purchased, or to the nearest Definitive Technology service center. Product must be shipped in the original shipping container or its equivalent. Definitive is not responsible or liable for loss or damage to Product in transit.

THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY THAT APPLIES TO THIS PRODUCT. DEFINITIVE neither assumes nor attributes any liability or intent to assume for it any other obligation or liability in connection with this Product or this WARRANTY. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS, IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY EXCLUDED AND DISCLAIMED TO THE MAXIMUM EXTENT ALLOWED BY LAW. ALL IMPLIED WARRANTIES ON PRODUCT ARE LIMITED TO THE DURATION OF THIS EXCLUSIVE WARRANTY. DEFINITIVE MAKES NO LIABILITY FOR ACTS OF THIRD-PARTIES. DEFINITIVE'S LIABILITY, WHETHER BASED ON CONTRACT, TORT, STRICT LIABILITY, OR ANY OTHER THEORY, SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT FOR WHICH A CLAIM HAS BEEN MADE. UNDER NO CIRCUMSTANCES WILL DEFINITIVE BEAR ANY LIABILITY FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, THE CONSUMER'S MERE AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND DEFINITIVE SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAW IN SAN DIEGO COUNTY, CALIFORNIA. DEFINITIVE RESERVES THE RIGHT TO MODIFY THIS WARRANTY EXISTING AT ANY TIME.

Some states do not allow the exclusion or limitation of consequential or incidental damages, or implied warranties, so the above limitations 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.



This product complies with the essential requirements of the EMC directive 89/336/EEC.

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