



**AVAILABLE AT  
DIGITAL CINEMA**

*Definitive Technology*<sup>®</sup>  
*The Leader in High-Performance Loudspeakers*<sup>®</sup>

# Ultimate In-Wall<sup>™</sup>

## Reference Line Source II

### **Owner's Manual**

### *Congratulations*

Congratulations on your purchase of the Definitive Technology Ultimate In-Wall RLS II Loudspeaker. This reference quality loudspeaker provides the highest level of sonic performance and construction quality and is designed for easy flush mount installation in walls of homes and commercial spaces. Six years of intensive research and development by Definitive engineers, working in collaboration with one of the world's leading industrial design firms, has produced the finest in-wall loudspeaker on the market. The beautiful upscale designer styling of this model is perfect for the finest homes belonging to the most discriminating homeowners.

## The Ultimate In-Wall Loudspeaker RLS II

The RLS II:

- Incorporates high power, high definition cast basket Definitive bass/midrange drivers combined with pressure coupled low frequency radiators and state of the art Definitive 1" dome tweeters.
- Incorporates polypropylene cones with butyl rubber surrounds.
- Incorporates a complete precision crossover system designed by Definitive engineers for seamless driver blending.
- Incorporates a completely sealed non-resonant mediate enclosure to assure you of laboratory reference quality performance in your home.
- Is moisture resistant to allow use in bathrooms, etc.
- Incorporates the installer's favorite: a sturdy, easy and quick to use metal pivoting dog mounting system.
- Is easily paintable and comes complete with mounting templates and plastic paint masks.
- Can be used as an exceptional left-main, right-main, center-channel or rear/side surround in a state of the art home theater system or as stereo pairs in a 2-channel music system.

## The Sound Quality Is Extraordinary

The Ultimate In-Walls have been voiced by Definitive engineers (using the superb facilities of the Definitive Technology Advanced Research Facility) to the same high-end standards as all Definitive loudspeakers. The drivers and baffles are perfectly integrated into the designs to minimize the diffraction problems that are inherent with most other in-wall loudspeakers. To ensure that you experience the finest performance possible from your Ultimate In-Walls, we encourage you to read this owner's manual to familiarize yourself with the proper installation and set-up procedures.

## **Unpacking Your In-Wall Loudspeakers**

### **Please Inspect For Shipping Damage**

Each loudspeaker leaves our plant in perfect condition. Any visible or concealed damage most likely will have occurred in handling after it left the plant and should be reported at once to your Definitive dealer or the delivery company that delivered your loudspeakers. Please unpack your system carefully. Save all cartons and packing materials in case you move or need to ship your system. Record the serial numbers found on the back of the In-Wall Loudspeakers in the appropriate place on your warranty card.

## **Ultimate In-Wall Installation**

Definitive's Ultimate In-Wall Loudspeakers are designed to be mounted in walls with excellent results. Because of their wide dispersion characteristics and other aspects of their superb sonic performance, mounting position in your room is very flexible. Due to the different requirements of the wide variety of room shapes and sizes, we recommend that you consult with the custom installation specialist at your Definitive Technology dealer regarding your own particular needs.

## **Painting Your In-Wall Loudspeakers**

All Ultimate In-Wall Loudspeakers are easily paintable and are shipped with plastic paint masks (which should be retained even if you initially decide not to paint the speakers). The grill and frame must be painted separately, and for best results, prior to installation.

For the grill, spray painting is the recommended method. Follow the paint manufacturer's directions for ventilation and correct spraying procedure. Be very careful not to clog the speaker grill with too heavy a coat of paint as this will impair system sonic performance.

For the frame, spray painting is preferred but brush or roller will also give good results. The supplied frame masks should be put in place to protect the speaker components for whichever method you choose.

## Planning for Installation

Please allow a minimum of 1½" of clearance all around the cutout behind the wallboard for your speakers. There must be at least 3<sup>7</sup>/<sub>8</sub>" depth from the front of the drywall to the back of the cavity.

## Required Tools for Installation

- Saber or keyhole saw or utility knife capable of cutting drywall
- Medium Phillips screwdriver
- Level (optional)

## Installation Procedure

The RLS II is designed to be installed inside the walls of your home quickly and easily. Because of its superb sonic performance, installation location within your room is very flexible. Your room is not like anyone else's room, and because of its unique size and shape will have its own requirements for optimal sonic performance. We recommend that you consult with the Custom Installation Specialist at your Definitive Technology dealer regarding your special needs or if you are at all uncertain about the best and safest way to install your RLS II.

- It is highly recommended that you take advantage of the expertise of a professional installation specialist.
- Before starting construction or modification of your walls, you should familiarize yourself with any applicable local fire and building codes.
- Make sure the locations you select do not conceal studs, electrical wiring or plumbing. Prior to installation, hold the speaker in your chosen location to make sure it safely clears obstacles such as studs, corners, beams, lighting fixtures and door/window frames. Your cutout must be at least 1" (25 mm) from adjoining walls or ceiling, and 1½" (38 mm) internal studs or plumbing. Note that the frame around the inset loudspeaker extends 1" beyond your cutout.

- Also note that the size of the RLS II may require some modification of the stud structure in your wall. This should only be done by a competent professional who will configure the studs to maintain their structural integrity.
- Speaker wire must be run inside your wall as part of the installation process of in-wall loudspeakers. Plan the connection before you start your loudspeaker installation.

## Step-by-Step Installation

- The included template is the exact size of the required speaker opening. Once you have decided on a general location for your speaker, hold the template in the preferred position on the wall and trace around it taking care that the opening is level.
- Use a saw or knife to cut the opening.
- Make sure the gasket is installed on the inner surface of the speaker bezel so that it will be between the speaker bezel and the wall when the speaker is installed.
- Run color coded wires between the speaker cavity and the amplifier unit. When running the wires inside the wall to the opening, leave a minimum of 12" of additional length in the cavity to facilitate speaker connection.
- Connect the speaker wires to the In-Wall unit taking care to make red to red (+) and black to black (-) terminal connections.
- Refer to your amplifier or receiver loudspeaker wiring instructions, turn off the unit and connect the speaker wires to the appropriate colored output terminal on the unit, again making red to red (+) and black to black (-) connections. This will ensure absolute phase throughout the system.
- The metal pivoting dogs are pre-installed in the loudspeaker frame with Phillips screws. The dogs can be rotated left or right by turning the screws.

## Step by Step Installation

(continued)

- To install speaker, first rotate screws one-half turn counter clockwise to swing the dogs into position and clear the edge of the wall cutout. Then place speaker frame in position in the cutout and rotate screws clockwise one-half turn to grip the wall. Tighten by hand until frame is stable but loose enough to be adjusted in final position. Level the speaker frame and snug screws into place taking care not to overtighten.
- Fit grill on frame.

## Troubleshooting Your In-Wall Loudspeakers

If you experience any difficulties with your Ultimate In-Wall Loudspeakers, try the suggestions described below. If you are still having problems, please consult your Definitive Technology authorized dealer for assistance.

- Make sure all your system interconnections and power cords are solidly in their place.
- Check to be sure that the power cords and/or speaker wires have not been damaged.
- Many amplifier/receivers have sophisticated internal protection circuitry. If for some reason the protection circuitry is tripped, please turn down the system's volume and wait five minutes before trying the system again.

## Technical Assistance

It is our pleasure to offer assistance if you have any further questions or comments. Please feel free to contact our technical support staff at Definitive Technology, LLP, 11433 Cronridge Dr., Suite K, Owings Mills, MD 21117 or call (410) 363-7148.

Visit us at [www.definitivetech.com](http://www.definitivetech.com)

## Service

Service and warranty work on your Definitive loudspeakers will normally be performed by your local Definitive Technology dealer. However, if you wish to return the speaker to us, please contact us first, describing the problem and requesting authorization as well as the location of the nearest factory service center. **Please note that the address given in this booklet 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.**

Definitive Technology Offices  
11433 Cronridge Dr.  
Suite K  
Owings Mills, Maryland 21117  
Phone: 410-363-7148

## In-Wall Loudspeaker Specifications

### UIW RLS II

<b>Outer Dimension:</b>	8 <sup>1</sup> / <sub>8</sub> " W x 29 <sup>3</sup> / <sub>4</sub> " H
<b>Cut-out Size:</b>	7" W x 28 <sup>1</sup> / <sub>2</sub> " H x 3 <sup>7</sup> / <sub>8</sub> " D
<b>Recommended Amplification:</b>	10 – 350 watts
<b>Efficiency:</b>	92 dB
<b>Frequency Response:</b>	22Hz – 30kHz
<b>Nominal Impedance:</b>	Compatible with 8 ohm outputs
<b>Driver Complement:</b>	Two 6.5" cast-basket bass/midrange drivers, Two 6.5" pressure-driven bass radiators, One 1" pure aluminum dome tweeter

## **Limited Warranty: 5-Years for Drivers and Cabinets, 3-Years for Electronic Components**

Definitive Technology warrants to the original retail purchaser only that this Definitive Technology Loudspeaker Product (the "Product") will be free from defects in materials 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 Technology Authorized Dealer. However, this warranty will automatically terminate prior to the expiration of five (5) years for the drivers and cabinets and three (3) years for the electronic components if the original retail purchaser sells or otherwise transfers the Product to any other party. The original retail purchaser shall hereinafter be referred to as "you." Defective Products must be shipped, together with proof of date of purchase, prepaid insured to the Authorized Dealer from whom you purchased the Product, or to the nearest factory service center. Product(s) must be shipped in the original shipping container or its equivalent; in any case the risk of loss or damage in transit is to be borne by you. If, upon examination at the Factory or a Definitive Technology Authorized Dealer, it is determined that the unit was defective in materials or workmanship at any time during this Warranty period, Definitive Technology or the Definitive Technology Authorized Dealer will, at its option, repair or replace this Product at no additional charge, except as set forth below. All replaced parts and Product(s) become the property of Definitive Technology. Product(s) replaced or repaired under this Warranty will be returned to you, within a reasonable time, freight collect.

*This Warranty does not include service or parts to repair damage caused by accident, misuse, abuse, negligence, inadequate packing or shipping procedures, commercial use, voltage in excess of the rated maximum of the unit, cosmetic appearance of cabinetry not directly attributable to defects in materials or workmanship, or service, or repair or modification of the Product which has not been authorized by Definitive Technology. Definitive Technology makes no Warranty with respect to its Products purchased from dealers or outlets other than Definitive Technology Authorized Dealers. This Warranty is in lieu of all other expressed Warranties. If this Product is defective in material or workmanship as warranted above, your sole remedy shall be repair or replacement as provided above. In no event will Definitive Technology be liable to you for any incidental or consequential damages arising out of the use or inability to use the Product, even if Definitive Technology or a Definitive Technology Authorized Dealer has been advised of the possibility of such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation may not apply to you.*

*All implied warranties on the Product are limited to the duration of this expressed Warranty. Some states do not allow limitation on how long an implied Warranty lasts, so the above limitations may not apply to you. This Warranty gives you specific legal rights, and you also may have other rights which vary from state to state.*



**This product complies with the essential requirements of EMC directives 89/336/EEC and 73/23/EEC (inclusive of 93/68/EEC) and carries the CE mark accordingly.**