

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

# Ultimate In-Wall<sup>™</sup>

High-Performance Designer Loudspeakers

## **Owner's Manual**

### *Congratulations*

Congratulations on your purchase of Definitive Technology Ultimate In-Wall Series Loudspeakers. These reference quality loudspeakers provide the highest level of sonic performance and construction quality and are designed for easy flush mount installation in walls and ceilings 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 series on the market. The beautiful upscale designer styling of all models is perfect for the finest homes belonging to the most discriminating homeowners.

## The Ultimate In-Wall Loudspeaker Series

All models:

- Incorporate high power, high definition cast basket Definitive bass/midrange drivers combined with state of the art Definitive 1" dome tweeters (except UIW 63/A and UIW 83/A which use a stamped basket driver).
- Incorporate polypropylene cones with butyl rubber surrounds.
- Incorporate a complete precision crossover system designed by Definitive engineers for seamless driver blending.
- Are moisture resistant to allow use in bathrooms, etc.
- Incorporate the installer's favorite: a sturdy, easy and quick to use metal pivoting dog mounting system.
- Are easily paintable and come complete with mounting templates and plastic paint masks.
- Optional rough-in kits are available.
- UIW 55, 65, and 75 incorporate a variable high frequency equalization control to optimize response characteristics for different mounting positions.

## The Sound Quality Is Extraordinary

The Ultimate In-Walls have been voiced by Definitive engineers (using the superb facilities of the National Research Council) 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 or ceilings 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. Because of 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 in the wall.

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 whichever method you choose.

## Planning for Installation

Please allow a minimum of two inches of clearance in all directions behind the wallboard for your speakers. Lateral clearance should not be an issue as all models of Ultimate In-Wall Loudspeakers are narrow enough to fit between wall studs.

## Required Tools for Installation

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

## Installation Procedure

### Safety Notes:

- In general, installation by a professional installer is highly recommended.
- Before starting construction or modification of your walls or ceilings, you should familiarize yourself with any applicable requirements of the local fire and building codes.
- Speaker wire must be run inside the wall as part of the installation of in-wall loudspeakers. Plan the connection route before you start the installation.
- Before opening up the installation cavity, check to ensure that the area behind does not contain wiring, plumbing, ductwork, etc.

## 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., Owings Mills, MD 21117, or (410) 363-7148.

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

## High Frequency Equalization Switch

On the UIW 55, 65 and 75, you will note that there is a two position switch marked HF EQ on the top of the crossover circuit board facing the speaker baffle. This can be set to either H (brighter) or L (less bright), depending on personal listening preferences as well as your chosen mounting position.

## 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 or ceiling and trace around it taking care that the opening is level.

Use a saw or knife to cut the opening.

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 (“+”) 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.

To install speaker, first rotate screws one-half turn counter clockwise to swing the dogs into position to 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 and 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.

## Service

Service and warranty work on your Definitive loudspeakers will normally be performed by your local Definitive Technology dealer. If, however, 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.  
Owings Mills, Maryland 21117  
Phone: 410-363-7148

## Ultimate In-Wall Specifications

### UIW 75

Outer Dimensions	7.5" x 16.625"	(191 mm x 421 mm)
Cut-out Size	6.5" x 15.5"	(164 mm x 394 mm)
Power	Rec.Assoc.Amp. 10-300 watts per channel	
Frequency Response	26Hz – 30kHz	
Nominal Impedance	8 ohms	
Driver Complement	Two 6.5" cast basket bass/midrange driver; 1" pure aluminum dome tweeter in a D'Appolito array (the same basic drivers and configuration developed for Definitive's Grand Prix Award Winning top-of-the-line BP 3000TL system).	

### UIW 65

Outer Dimensions	7.5" x 10.9"	(191 mm x 277 mm)
Cut-out Size	6.5" x 9.8"	(164 mm x 249 mm)
Power	Rec.Assoc.Amp. 10-200 watts per channel	
Frequency Response	28Hz – 30kHz	
Nominal Impedance	8 ohms	
Driver Complement	6.5" cast basket bass/midrange driver; 1" pure aluminum dome tweeter (the same basic drivers developed for Definitive's Grand Prix Award winning top-of-the-line BP3000TL system).	

# In-Wall Loudspeaker Specifications

## UIW 55

### Outer Dimensions

6.687" x 10.375" (170 mm x 263 mm)

### Cut-out Size

5.57" x 9.25" (142 mm x 235 mm)

### Power

Rec. Assoc. Amp. 10 – 175 watts per channel

### Frequency Response

35 Hz – 30 kHz

### Nominal Impedance

8 ohms

### Driver Complement

5.25" cast basket bass/midrange driver; 1" pure aluminum dome tweeter (the same basic drivers used in the Grand Prix Award winning BP 2002TL system).

## UIW 64/A

### Outer Dimension

8.75" diameter (222 mm diameter)

### Cut-out Size

7.625" diameter (193 mm diameter)

### Power

Rec. Assoc. Amp. 10 – 200 watts per channel

### Frequency Response

28 Hz – 30 kHz

### Nominal Impedance

8 ohms

### Driver Complement

Brings a new level of sonic performance quality to the round speaker format by using a remarkable new 6.5" cast basket bass/midrange driver with a pivoting 1" pure aluminum dome tweeter.

## UIW 63/A

### Outer Dimension

8.75" diameter (222 mm diameter)

### Cut-out Size

7.625" diameter (193 mm diameter)

### Power

Rec. Assoc. Amp. 10 – 200 watts per channel

### Frequency Response

30 Hz – 30 kHz

### Nominal Impedance

8 ohms

### Driver Complement

Stamped basket version of Definitive's signature 6.5" bass/midrange driver with a 1" pure aluminum dome tweeter in a coaxial configuration.

## UIW 83/A

### Outer Dimension

10.1" diameter (257 mm diameter)

### Cut-out Size

9.025" diameter (229.25 mm diameter)

### Power

Rec. Assoc. Amp. 250 watts per channel

### Frequency Response

27 Hz – 30 kHz

### Nominal Impedance

8 ohms

### Driver Complement

Stamped basket 8" bass/midrange driver and a 1" pure aluminum dome tweeter in a coaxial configuration.

## UIW 94/A

### Outer Dimensions

10.75" diameter (273 mm)

### Cut-out Size

9.625" (244.5 mm)

### Power

Rec. Assoc. Amp. 300 watts per channel

### Frequency Response

26 Hz – 30 kHz

### Nominal Impedance

8 ohms

### Driver Complement

9" cast basket bass/midrange driver and a 1" pivoting pure aluminum dome tweeter in a coaxial configuration.

## UIW BPZ/A

### Outer Dimensions

8.45" x 14.75" (214.6 mm x 375 mm)

### Cut-out Size

7.3125" x 13.625" (186 mm x 346 mm)

### Power

Rec. Assoc. Amp. 10 – 300 watts per channel

### Frequency Response

26 Hz – 30 kHz

### Nominal Impedance

8 ohms

### Driver Complement

This unique bipolar in-wall loudspeaker is intended for use as a main system speaker (whose bipolar radiation pattern gives unequalled dispersion and sonic coverage throughout the room) and, in addition, as a rear or side surround speaker in Dolby Prologic, Dolby Digital, Dolby EX and DTS installations of the highest quality. Two 6.5" cast basket drivers (with two 1" pure aluminum dome tweeters) are utilized for superb dynamic range and sonic performance.

## UIW BP/A

### Outer Dimensions

7.125" x 12.5" (181 mm x 318 mm)

### Cut-out Size

6.1" x 11.45" (155 mm x 291 mm)

### Power

Rec. Assoc. Amp. 10 – 250 watts per channel

### Frequency Response

28 Hz – 30 kHz

### Nominal Impedance

8 ohms

### Driver Complement

This unique bipolar in-wall loudspeaker is intended for use as a main system speaker (whose bipolar radiation pattern gives unequalled dispersion and sonic coverage throughout the room) and, in addition, as a rear or side surround speaker in Dolby Prologic, Dolby Digital, Dolby EX and DTS installations of the highest quality. Two 5.25" cast basket drivers (with two 1" pure aluminum dome tweeters) are utilized for superb dynamic range and sonic performance.

## **LIMITED USA WARRANTY**

### **5-YEARS FOR DRIVERS AND CABINETS, 3-YEARS FOR ELECTRONIC COMPONENTS**

DEI Sales Co., dba Definitive Technology (herein "Definitive") warrants to the original retail purchaser only that this Definitive loudspeaker 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 Product(s) 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-transferrable 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 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 material or workmanship. This warranty does not cover the elimination of externally generated static or noise, or the correction of antenna problems or weak 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 AUTOMATICALLY VOID IF:**

- 1) *The product has been damaged, altered in any way, mishandled during transportation, or tampered with.*
- 2) *The product is damaged due to accident, fire, flood, unreasonable use, misuse, abuse, customer applied cleaners, failure to observe manufacturers warnings, neglect or related events.*
- 3) *Repair or modification of the Product has not been made or authorized by Definitive Technology.*
- 4) *The product has been improperly installed or used.*

Product must be returned (insured and prepaid), together with the original dated proof of purchase to the Authorized Dealer from whom the Product was purchased, or to the nearest Definitive factory 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 YOUR PRODUCT. DEFINITIVE NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH YOUR 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 EXPRESSED WARRANTY. DEFINITIVE HAS 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 CIRCUMSTANCE WILL DEFINITIVE BEAR ANY LIABILITY FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES. THE CONSUMER AGREES AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND DEFINITIVE SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAWS IN SAN DIEGO COUNTY, CALIFORNIA. DEFINITIVE RESERVES THE RIGHT TO MODIFY THIS WARRANTY STATEMENT 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.

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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.