# LINEZRADIZNCE

## INVISIBLE SPEAKERS | SUBWOOFERS



# INVISIBLE EVOLUTION

The ALL NEW 8th Generation Invisible Speakers!





## A BRIEF HISTORY OF STEALTH ACOUSTICS

There have been great strides in the invisible speaker category recently, but Stealth Acoustics remains *THE* industry leader. Founded in 2003 to launch its first speaker, but with roots going back to the '70s, Stealth Acoustics remains years ahead of the competition by focusing on reliability, ultimate performance, and minimal aesthetic impact.

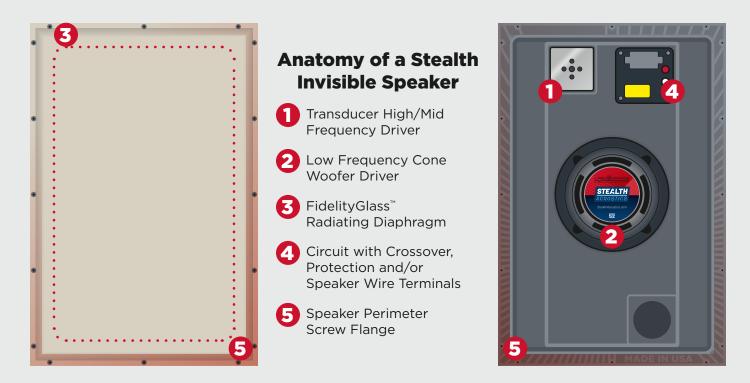
As a division of Dimensional Communications, Inc., a premier systems integration company based in Washington State (USA), Stealth Acoustics has had systems integration at its core since the beginning. Stealth has leveraged 50 years of direct experience from countless systems integration projects becoming a world-class audio/video manufacturer by understanding the needs of systems integrators.

Stealth introduced its most comprehensive lineup of invisible speakers and subwoofers in 2013 with the **6th-generation LineaResponse G Series**. In 2017 the lineup expanded to include the performance-oriented, **7th-generation LineaResponseX Series**.

Based upon 20 years and seven generations of *LineaResponse* technology, Stealth is proud to release its completely redesigned, **8th-generation LineaRadiance Series** speakers and subwoofers for 2024. Experience the ► INVISIBLE **EVOLUTION** 

From surround sound installations and family rooms, to offices and bedrooms - residential and commercial, Stealth has the product depth, the history of reliability, and the information and resources available to make every project successful!





All Stealth Acoustics speakers are handmade in the USA. They feature an innovative design, quality hardware and materials, and Stealth's patented FidelityGlass<sup>™</sup> face panel material to achieve industry-leading performance metrics and a 170-degree sound dispersion pattern that makes them the benchmark for all invisible speakers.

With proper installation and care, Stealth invisible speakers will last a lifetime.

## **8 GENERATIONS OF TECHNOLOGY**

Stealth Acoustics invisible speakers use a combination of three sound-generating technologies. The first (and common to all other invisible speaker products currently on the market) is the direct coupling of an exciter/transducer driver to the speaker's front surface panel (radiating diaphragm). This method works very well for higher frequencies, but direct-coupled transducers become less efficient as the frequency drops and limit bass response.

Second, Stealth combines the direct-coupled transducer technology with an acoustic lever technology driven by a traditional woofer to overcome the loss of bass response. The acoustic lever energizes the radiating diaphragm of the speaker panel for impactful bass. The greater surface area translates to a lower frequency response.

The third technology is the unique FidelityGlass<sup>™</sup> radiating diaphragm. Stealth Acoustics developed FidelityGlass<sup>™</sup> as a flat, durable, proprietary material with superior sound reproduction characteristics that also allows the speakers to finish invisibly into a wall.

## **INSTALLATION**

The typical installation process is similar to making a wallboard patch. The speaker is attached directly to the structural framing of a wall or ceiling then the seams are finished with tape and mud using standard wall finishing techniques. Finishes such as texture, paint, thin fabric, wallpaper, and veneer create a completely invisible audio experience.



## **PREMIUM LISTENING**





#### **DUAL 8" 3-WAY**

The L-RAD 430 is an incredible LCR or Cinema Surround system speaker. Featuring 3-way clarity and dual 8" woofers with independent high- and mid-frequency exciters, these speakers make a true performance statement.

The proprietary FidelityGlass<sup>™</sup> radiating diaphragm allows for smooth frequency extension to 35kHz and will play down to 20Hz with proper installation techniques.

All L-RAD speakers feature an integrated, acoustically tuned back box (removable).

#### **Recommended Applications:**

Premium Distributed Audio and Sound Reinforcement, Cinema Front Soundstage (LCR), Cinema Surround

## **INVISIBLE EVOLUTION**

LINEZRADIZNCE

INVISIBLE SPEAKERS | SUBWOOFERS

**LineaRadiance** speakers are the next generation of Stealth's critically acclaimed *LineaResponse* invisible speakers (first released in 2003). The new LineaRadiance invisible speakers are a completely redesigned, 8th-generation product produced in their Washington State facility.

#### Features in the 8th-generation speakers include:

- Integrated and acoustically tuned back box
- New transducer/exciter driver designs
- Re-voiced crossover networks
- New woofer mount style increases internal air volumes
- Improved poly-switches
- Easy-Tape<sup>™</sup> tapered frame/diaphragm for improved finishing

Project by nantucketit.con

New paper-finish diaphragm for better material adhesion



## PREMIUM WHOLE HOME

### PREMIUM SUBWOOFER

## L-RAD116

## L-RAD30W





## **2-WAY FULL RANGE**

The L-RAD 116 is a compact, background music application invisible speaker. Its small footprint makes for easy installation into almost any location.

The Stealth Acoustics L-RAD 116 incorporates an acoustically coupled, high-power, 6.5" cone woofer with one directly-coupled high-frequency driver.

The proprietary FidelityGlass<sup>™</sup> radiating diaphragm allows for smooth frequency extension to 20kHz and will play down to 45Hz with proper installation techniques.

All L-RAD speakers feature an integrated, acoustically tuned back box (removable).

#### **Recommended Applications:**

Background Distributed Audio Best for in-wall or in-ceiling installations.

## QUAD 8" SUBWOOFER SYSTEM

The L-RAD 30W is a two-panel monaural subwoofer system ideal for theater/cinema applications or whole-house audio systems that require extra bass output. It features four acoustically coupled, highpower, 8" cone woofers per system.

The proprietary FidelityGlass<sup>™</sup> radiating diaphragm allows for smooth frequency extension to 160Hz and will play down to 20Hz with proper installation techniques.

All L-RAD speakers feature an integrated, acoustically tuned back box (removable).

The L-RAD 30W is a two-panel system. Both panels should be installed and wired according to the instructions. Stack them in corners or spread them throughout the room for the best coverage and performance.

#### **Recommended Applications:**

Premium Distributed Audio, Distributed Audio, High Performance & Cinema Best for in-wall installations.

## WORRY FREE OPERATION

All Stealth Acoustics invisible speakers utilize independent, self-resetting protection circuits. In case of excessive amplifier output, the protection circuits interrupt the signal preventing damage to the speaker. Once the amplifier output has been reduced, the protection circuits self-reset to allow the speakers to function normally.





# LINEA RESPONSE

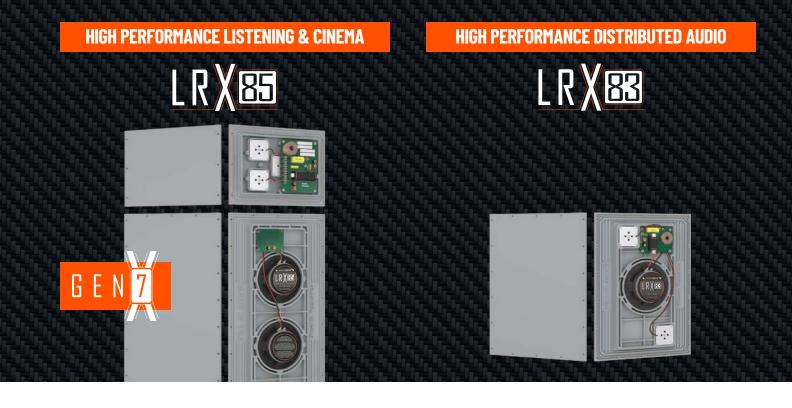
INVISIBLE SPEAKERS - EXPERT GRADE

## **EXPERT GRADE INVISIBLE AUDIO**

LineaResponseX<sup>™</sup> (LRX) expert-grade invisible speakers from Stealth Acoustics feature the FidelityGlass Advanced<sup>™</sup> mechanically tuned diaphragm and lamination processes and enhanced driver sets. The LRX Series are high-performing, incredible-sounding invisible speakers.

For demanding audiophiles that seek impeccable audio performance yet desire the aesthetic benefits that only true invisibility can offer, Stealth's new LRX range raises the bar for invisible speakers to an unprecedented level.





## **3-WAY FULL-RANGE SEVEN-ELEMENT SYSTEM**

The LRX-85 features a component-style design (separate low and high-frequency panels) which allows for a high level of articulation and output. There has never been an invisible speaker experience like this before.

This "Big-Room" speaker system tops them all by offering smooth frequency extension from 20kHz to a bone-shaking 35Hz.

For even higher performance, the LRX-85 can accommodate a bi-amp configuration.

#### **Recommended Applications:**

Cinema Front Soundstage (LCR), Premium Distributed Audio and Sound Reinforcement. Best for in-wall or in-ceiling installations.

## The Flagship "Big-Room" Speaker!

(includes 2 panels)

## **3-WAY HIGH PERFORMANCE**

The LRX-83 was designed to be the ultimate invisible whole-house audio speaker and has become one of the most significant products in the Stealth portfolio.

Used as an LCR or Cinema Surround system, the LRX-83 will put you right in the middle of the action. Used as a premium distributed audio solution, the LRX-83 will fill an entire home with studio-quality sound without a single visible speaker grill.

The proprietary FidelityGlass<sup>™</sup> radiating diaphragm allows for smooth frequency extension to 20kHz and will play down to 40Hz with proper installation techniques.

#### **Recommended Applications:**

Premium Distributed Audio and Sound Reinforcement, Cinema Front Soundstage (LCR), Cinema Surround

## WORRY FREE OPERATION

All Stealth Acoustics invisible speakers utilize independent, self-resetting protection circuits. In case of excessive amplifier output, the protection circuits interrupt the signal preventing damage to the speaker. Once the amplifier output has been reduced, the protection circuits self-reset to allow the speakers to function normally.



## **DISTRIBUTED AUDIO**



The Economical Whole-House Audio Choice! The Stereo Single Point Source Speaker!

SLR 8G



## **2-WAY FULL RANGE**

The LR8g is Stealth's the most popular invisible distributed audio speaker. It features robust bass output and performs well at any volume level.

The Stealth Acoustics LR8g incorporates an acoustically coupled, high-power, 8" cone woofer with one directly coupled high frequency driver.

Stealth's proprietary FidelityGlass<sup>™</sup> radiating diaphragm allows for smooth frequency extension to 20kHz, and will play down to 45Hz with proper installation techniques.

#### **Recommended Applications:**

Distributed Audio , Cinema Surround, Sound Masking Best for in-wall or in-ceiling installations.

## 2-WAY STEREO FULL RANGE

The SLR8g is a fantastic choice for installations where space is at a premium. The SLR8g utilizes a dual voice coil design offering stereo performance from a single speaker location.

The Stealth Acoustics SLR8g incorporates an acoustically coupled, high-power, dual-voice coil, 8" cone woofer with two directly-coupled high-frequency drivers.

The proprietary FidelityGlass<sup>™</sup> radiating diaphragm allows for smooth frequency extension to 20kHz and will play down to 45Hz with proper installation techniques.

#### **Recommended Applications:**

Distributed Audio, Cinema Surround, Sound Masking Best for in-wall or in-ceiling installations.



## **2-CHANNEL AMPLIFIER**

The SA2400MKII is a 2-channel, high-current amplifier. DSP settings for all Stealth speakers are pre-programmed for easy deployment.

**Power Output** (per channel – both channels driven):

310 watts @  $8\Omega$  < 0.05 THD 450 watts @  $4\Omega$  < 0.05 THD



## MONAURAL AMPLIFIER

The SA250MKII is a monaural amplifier with a low pass filter designed specifically to power Stealth's invisible and outdoor subwoofers.

#### Mono Power Output:

250 watts @  $8\Omega$  < 0.05 THD 350 watts @  $4\Omega$  < 0.05 THD



## **DISTRIBUTED AUDIO**

**R** 6 G

## DISTRIBUTED AUDIO SUBWOOFER



The Compact Background Music Speaker!  The Compact Subwoofer for use with LR6g! (includes 2 panels)





## 2-WAY COMPACT FULL RANGE

The LR6g is a compact, background music application invisible speaker. Its small footprint makes for easy installation into almost any location. Combine this speaker with the B22g subwoofer for an excellent 2.1 system.

The Stealth Acoustics LR6g incorporates an acoustically coupled, high-power, 6.5" cone woofer with one directly-coupled high-frequency driver.

The proprietary FidelityGlass<sup>™</sup> radiating diaphragm allows for smooth frequency extension to 20kHz and will play down to 45Hz with proper installation techniques.

#### Recommended Applications:

Background Distributed Audio Best for in-wall or in-ceiling installations.

## WORRY FREE OPERATION

All Stealth Acoustics invisible speakers utilize independent, self-resetting protection circuits. In case of excessive amplifier output, the protection circuits interrupt the signal preventing damage to the speaker. Once the amplifier output has been reduced, the protection circuits self-reset to allow the speakers to function normally.

#### **INVISIBLE BASS**

Stealth's LineaResponse B<sup>™</sup> (Bg) Series Subwoofer systems deliver bold bass output for extra impact with zero aesthetic pollution. The full-sized B30g and compact B22g are 2-panel systems that install invisibly into the walls or ceiling of a room. These subs provide exceptional bass that listeners desire and excellent room coverage with frequencies extending as low as 20Hz.

## COMPACT SUBWOOFER SYSTEM

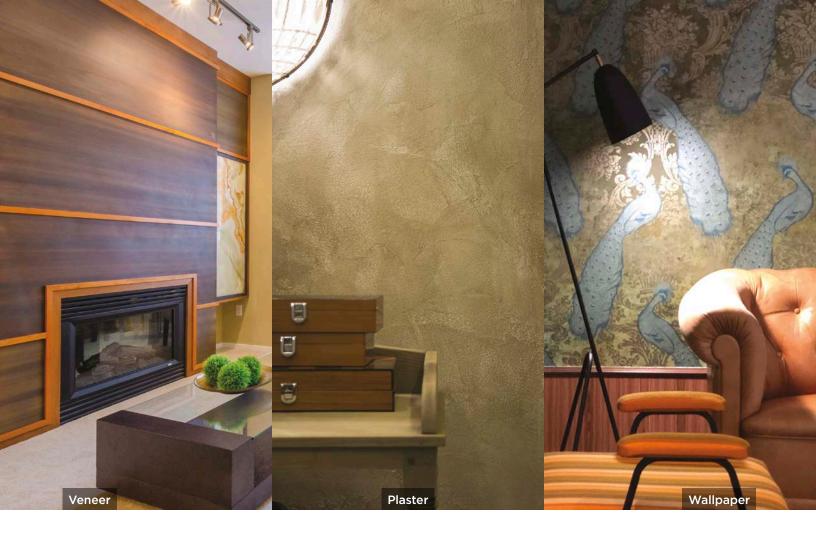
The B22g is a two-panel monaural subwoofer system perfect for pairing with the model LR6g to supplement low-frequency output in distributed audio applications. It features two acoustically coupled, high-power, 8" cone woofers per system.

The proprietary FidelityGlass<sup>™</sup> radiating diaphragm allows for smooth frequency extension to 150Hz and will play down to 30Hz with proper installation techniques.

The B22g is a two-panel system. Both panels should be installed and wired according to the instructions. Stack them in corners or spread them throughout the room for the best coverage and performance.

#### **Recommended Applications:**

Background Distributed Audio, designed for use with the LR6g for extra impact in critical listening zones. Best for in-wall or in-ceiling installations.





## **FINISHING OPTIONS**

Stealth's Invisible Speakers are compatible with many wall-finishing methods. A flat finish or orange peel texture with latex paint is the most common, but other finish options may include lightweight plaster, wallpaper, veneer, or fabric. (See installation instructions for more details.)

Speaker	Invisible Indoor							
Speaker							_	_
Application	5	ŝ			5		- Sul	- Sul
Guide	LRX-85	LRX-8	LR3g	LR8g	SLR8	LR6g	B30g	B22g
Residential Audio								
Cinema LCR								
Cinema Surround / ATMOS / FX								
2-Channel / Listening Rooms								
Subwoofer - Performance / Cinema								
Subwoofer - Background								
Distributed Audio								
Premium & Primary Zones								
Secondary Zones								
Background & Small Rooms								
High Ceiling & Entryway								
Outdoor Zones - Invisible								
Outdoor Zones - Visible								
Commercial Audio								
Constant Voltage (CVS)								
Sound Reinforcement								
Sound Masking								



## **8<sup>TH</sup>-GENERATION INVISIBLE SPEAKERS**

	L-RAD 430 Dual 8" 3-way Full Range	L-RAD 116 6.5" 2-way Full Range	L-RAD 30W Quad 8" Sub System		
Power Capacity	200 watts RMS	100 watts RMS	200 watts RMS (per pair)		
Min. Recommended Power	100 watts	50 watts	120 watts (per pair)		
Frequency Response	35Hz to 20kHz	45Hz to 20kHz	20Hz to 160Hz		
Crossover	Passive 3-Way	Passive 2-way	Requires amplifier with low pass filter 50Hz with 18 dB slope recommended		
System Impedance	$8\Omega$ nominal	$8\Omega$ nominal	16 $\Omega$ or 4 $\Omega$ (selectable)		
Sensitivity (1 meter @ 1 watt)	) 83 dB	83 dB	86 dB		
Polar Dispersion	170 degrees horizontal & vertical	170 degrees horizontal & vertical	170 degrees horizontal & vertical		
Protection	(3) independent self-resetting devices (low, midrange and high frequency)	(2) independent self-resetting devices (low and high/mid frequency)	-		
High Frequency Driver	(1) 1" (25mm) neodymium driver	(1) 11/8" (30mm) neodymium driver	-		
Midrange Frequency Driver	(1) 1" (30mm) neodymium driver	-	-		
Low Frequency Driver	(2) 1½" (38mm) voice coil 8" (203mm) woofer	(1) 1" (25mm) voice coil, 6.5" (165mm) woofer	(2) 1½" (38mm) voice coil 8" (203mm) woofers		
Magnet	(2) ceramic 20 oz. (622 gr)	(1) ceramic 15 oz.	(2) ceramic 20 oz.		
Width	157⁄s" (403 mm)	15‰" (403 mm)	15 <b>%</b> " (403 mm)		
Height	29 <b>%</b> " (759 mm)	157 <b>%</b> " (403 mm)	297⁄s" (759 mm)		
Depth	31/4" (83 mm)   21/s" (72 mm) back box removed	31/4" (83 mm)   25/8" (65 mm) back box removed	31/4" (83 mm)   21/8" (72 mm) back box removed		
Weight	26 lbs. (11.8 kg)	13 lbs. (5.9 kg) each	TBD		

7 <sup>TH</sup> -GENERATION INVISIBLE SPEAKERS					
	LRX-85 Full Range 7-Element		LRX-83 3-way Full Range		
Power Capacity	300 watts RMS		160 watts RMS		
Min. Recommended Power	120 watts		80 watts		
Frequency Response	35Hz to 20kHz		40Hz to 20kHz		
Crossover	Passive 3-Way @ 500Hz and 3kHz (asymmetrical)		Passive 3-way		
System Impedance	$8\Omega$ nominal		$8\Omega$ nominal		
Sensitivity (1 meter @ 1 watt)	1 watt) 84 dB		83 dB		
Polar Dispersion	170 degrees horizontal & vertical		170 degrees horizontal & vertical		
Protection	(3) independent self-resetting devices (low, midrange and high frequency)		(2) independent self-resetting devices (low and high/mid frequency)		
High Frequency Driver	(1) 1" (25mm) neodymium driver		(1) 1" (25mm) neodymium driver		
Midrange Frequency Driver	(4) 1" (30mm) neodymium driver		(1) 11/3" (30mm) neodymium driver		
Low Frequency Driver	(2) 1½" (38mm) voice coil 8" (203mm) woofer		(1) 1½" (38mm) voice coil 8" (203mm) woofer		
Magnet	(2) ceramic 20 oz. (622 gr)		(1) ceramic 20 oz.		
Width	15 <b>%</b> " (403 mm)	151⁄8" (403 mm)	157/s" (403 mm)		
Height	30" (762 mm)	12" (305 mm)	22" (559 mm)		
Depth	2½" (64 mm)	2¾" (70 mm)	2½" (64 mm)		
Weight	61 lbs. (28 kg) per pair (4 panels)		14 lbs. (6.3 kg) each		

6 <sup>TH</sup> -GENERATION INVISIBLE SPEAKERS					
	LR8G 2-way Full Range	SLR8G Stereo Speaker	LR6G 2-way Full Range	<b>B22G</b> Compact Sub System	
Power Capacity	120 watts RMS	120 watts RMS per channel	100 watts RMS	160 watts RMS (per pair)	
Min. Recommended Power	60 watts	60 watts per channel	50 watts	100 watts (per pair)	
Frequency Response	45Hz to 20kHz	45Hz to 20kHz	45Hz to 20kHz	30Hz to 150Hz	
Crossover	Passive 2-way	Passive 2-way	Passive 2-way	Requires amplifier with low pass filter 80Hz with 18 dB slope recommended	
System Impedance	$8\Omega$ nominal	8 $\Omega$ nominal	$8\Omega$ nominal	$8\Omega$ nominal	
Sensitivity (1 meter @ 1 watt)	83 dB	82 dB	83 dB	86 dB	
Polar Dispersion	170 degrees horizontal & vertical	170 degrees horizontal & vertical	170 degrees horizontal & vertical	170 degrees horizontal & vertical	
Protection	(2) independent self-resetting devices (low and high frequency)	(4) independent self-resetting devices (low and high frequency each channel)	(2) independent self-resetting devices (low and high frequency)	-	
High Frequency Driver	(1) 11/8" (30mm) neodymium driver	(2) 11/8" (30mm) neodymium drivers	(1) 11/8" (30mm) neodymium drivers	-	
Midrange Frequency Driver	-	-	-	-	
Low Frequency Driver	(1) 1½" (38mm) voice coil 8" (203mm) woofer	(1) 1½" (38mm) voice coil 8" (203mm) woofer	(1) 1" (25mm) voice coil, 6.5" (165mm) woofer	(1) 1½" (38mm) voice coil 8" (203mm) woofer	
Magnet	(1) ceramic 20 oz.	(1) ceramic 20 oz.	(1) ceramic 15 oz.	(1) ceramic 20 oz.	
Width	15 <b>%</b> " (403 mm)	151⁄8" (403 mm)	15 <b>%</b> " (403 mm)	15 <b>%</b> " (403 mm)	
Height	22" (559 mm)	22" (558 mm)	111/s" (302 mm)	22" (558 mm)	
Depth	21⁄2" (64 mm)	2½" (64 mm)	21/4" (57 mm)	2½" (64 mm)	
Weight	14 lbs. (6.3 kg) each	14.5 lbs. (6.6 kg) each	8.7 lbs. (3.9 kg) each	28 lbs. (12.7 kg) each pair (two panels)	





## **BACK BOXES, PLACESAVERS, AND FLOATING BRACKETS**

Stealth manufactures four styles of speaker back boxes designed to suit any construction type. Back boxes help the speakers achieve optimum performance and may also be required to meet construction codes. *The new LineaRadiance speakers feature and integrated back box - check specifications for compatibility with other back box solutions* 

#### Wood Back Box

BX series insulated wooden back boxes are available for LineaResponse speakers and help the speaker achieve optimum performance. BX back boxes are ideal for retrofit installations, locations with narrow framing, and where plenum ratings are not a concern. The 31/2" deep back box ships fully assembled and attaches directly to the back of the speaker during speaker installation.



## **STEALTH**

#### Metal Back Box -Fixed Width

MBX insulated back boxes are UL Listed, plenum rated, and designed to fit snuggly between 16" (406 mm) on-center framing and may be installed during the prewire phase or as a retrofit. MBX back boxes include mounting hardware for hat channel-type suspended ceiling applications and metal stud framing.

Install PlaceSavers<sup>™</sup> in

new construction when

the job is pre-wired.

PlaceSavers<sup>™</sup> reserve

space for the speaker

the speaker panel itself

from exposure to a harsh

construction environment.

during wallboard installation and prevents

**PlaceSaver**<sup>™</sup>

#### Metal Back Box -Adjustable Width

MBA insulated back boxes are UL Listed, plenum rated, and adjustable width to fit between irregular framing and may be installed during the pre-wire phase or as a retrofit. MBA back boxes include mounting hardware for hat channel-type suspended ceiling applications and metal stud framing.

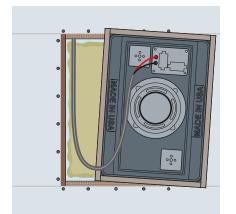
#### Metal Back Box -Solid Wall Type

MBC back boxes create a solid mounting surface for invisible speakers where there may not otherwise be support. MBC back boxes are ideal for installation locations such as masonry and hatchannel-type suspended ceilings. Additionally, use an MBC back box where there is open space behind a speaker or where a metal enclosure behind the speaker is required.

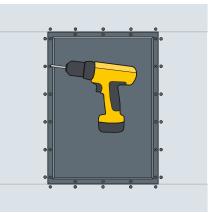
#### **Floating Bracket**

The Floating Brackets create a solid mounting surface for LR6g invisible speakers with framing greater than 16" (406 mm) oncenter. Floating Brackets should be installed before wall finishing. Each kit contains the bracket, mounting hardware, and a PlaceSaver<sup>™</sup> PS-12.

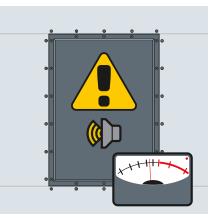




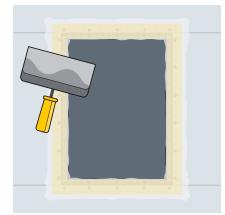
Prep & Wire



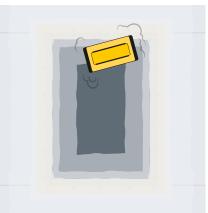
Attach & Adjust



Test with Music!



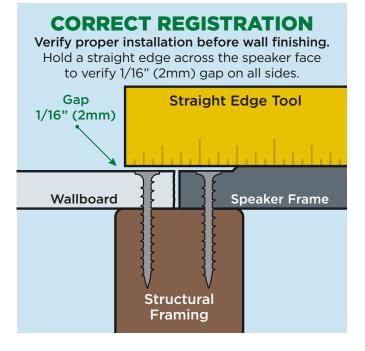
Tape & Mud



Sand & Inspect



Prime & Paint



## INSTALLATION OVERVIEW

The FidelityGlass<sup>™</sup> face of an Invisible Speaker is smooth and durable, designed to finish seamlessly with the surrounding wallboard.

The installation process is as simple as fitting a drywall patch. The speaker attaches directly to the structural framing in a wall or ceiling before tape and mud are applied. **Once the seams are sanded and painted the speaker becomes completely invisible!** (See installation instructions for more details.)







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## **100% QUALITY CONTROL**

Each Stealth Acoustics invisible speaker is hand-crafted to exacting quality standards using over-provisioned components and self-resetting protection circuits to ensure reliable long-term performance.

Additionally, every invisible speaker is individually tested -twice- before shipment. Every speaker is first analyzed electronically and then by a human ear to ensure top-quality sound.

We test **EVERY** speaker we build!





## WARRANTY

All Stealth Acoustics invisible speakers are expertly designed, hand assembled, and individually tested, to offer a lifetime of worry-free performance. However, should a problem arise, Stealth stands behind each speaker it builds with comprehensive, industry-leading warranty protection for a swift resolution. Contact Stealth Acoustics for complete warranty details.



# INVISIBLE INCREDIBLE





# We Are INVISIBLE Speakers



Project by hdav.online

## StealthAcoustics.com

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