



SolidDrive®



Frequently Asked Questions

Q. What is SolidDrive?

A. SolidDrive is a revolutionary audio product using technology that transforms walls, ceilings, windows, tables and nearly any solid surface into a speaker.

Q. How does SolidDrive technology work?

A. SolidDrive is a powerful sound transducer that transmits acoustical energy through almost any solid surface. SolidDrive patent-pending technology utilizes very high-powered neodymium magnets and dual, symmetrically opposed motors to convert audio signals into powerful vibrations that are then transferred into solid surfaces by direct contact.

Q. With what surfaces does SolidDrive work?

A. SolidDrive performs with excellence when used on rigid surfaces including glass, ceramic, granite, metal, drywall, wood, laminates, composites, gypsum panels, fiberglass, and acrylics. Structures include walls, ceilings, floors, tables and other items of furniture in residential, retail, commercial and industrial environments.

Q. What are the benefits of SolidDrive?

A. The benefits of SolidDrive are that it:

- Transforms rigid surfaces such as walls, ceilings, floors, windows, tables, and other items of furniture into high-quality sound sources
- Easily attaches to surfaces and install directly behind walls and ceilings to create a high-quality sound system with no visible speakers, grilles or wires

- Blends seamlessly into a room's environment, allowing you to design your space the way you desire or leave your existing space in its original, untouched condition
- Immerses the listener in sound, which is omni-directional at nearly all frequencies
- Maintains channel separation
- Delivers sound to problem areas
- Is compact, efficient and reliable
- Comes with in-wall subwoofer options

SolidDrive provides a distinct advantage for audio systems used in home theater systems, distributed audio and other high-performance audio applications.

SolidDrive is perfect for home remodels or new home builds, retail stores, restaurants or anywhere you want sound without speakers.

Q. What is the sound quality of SolidDrive compared to conventional speakers?

A. SolidDrive delivers high-quality sound equal to and surpassing that of conventional diaphragm speakers in their price range. Full-range sound is radiated from the entire surface with a frequency response of 60 Hz to 15 kHz while maintaining excellent channel separation.

A conventional speaker radiates from a small surface area. The resulting sound is louder near the speaker but dissipates the further you are from the speaker. With SolidDrive, sound projected from a wall or ceiling is evenly distributed over a large surface area. This sound completely fills the room and is equal in all areas, immersing the listener.

Q. How efficient is SolidDrive?

- A.** SolidDrive is highly efficient; and efficiency is very important, particularly for in-wall and in-ceiling applications, due to potential heat build up. Highly efficient SolidDrive addresses this challenge with its ability to generate sound from an entire flat surface with very little power. In fact, SolidDrive can generate sound from solid surfaces using only 5 to 20 watts.

Q. How reliable is SolidDrive?

- A.** SolidDrive is extremely reliable, having no moving parts rubbing together that could cause wear or require lubrication. Parts subject to fatigue due to vibrations are fabricated from special non-fatiguing materials. SolidDrive is thermally protected, so it can also be used in high-output applications with power levels up to 100 watts. SolidDrive features a 7-year warranty.

Q. How does SolidDrive function compared to conventional speakers?

- A.** A conventional speaker uses a speaker cone that vibrates to generate sound. The sound created by SolidDrive is similar to a guitar or piano. In a guitar, the vibrating string causes the guitar body to vibrate in response to the string. The vibrating guitar body then creates the sound we hear. SolidDrive creates a vibration (like the string) and then uses walls, ceiling, windows or other solid surfaces (like the guitar body) to create sound.

Q. What applications are there for SolidDrive?

- A.** SolidDrive works great for home theater systems, boardroom conference tables and windows or any residential, retail, commercial or industrial environment. Applications are only limited by your imagination. SolidDrive works with nearly any solid surface to deliver sound with no visible speakers, wires or grilles.

Q. Who can use SolidDrive?

- A.** SolidDrive is ideal for professional installers; and because SolidDrive uses materials already existing in a room, it is perfect for installed home audio, commercial audio or home theater sound systems.

Q. Will the vibrations created by SolidDrive harm the structure on which it is mounted?

- A.** No. The level of vibration imparted by SolidDrive to the wall or solid surface will not hurt the structure. The amount of movement is actually only a few 1/1000s of an inch. This level of motion is less than that caused by a running clothes dryer or HVAC system.

Q. How is SolidDrive packaged?

- A.** SolidDrive is packaged as a single drive. Mounting materials and mounting instructions are included, and the type of installation should be specified at the time of order.
- **For walls & ceilings:** For in-wall and in-ceiling installation, SolidDrive comes with one (1) SolidDrive SD1 unit, one (1) attached wiring harness with Eurostyle connector, one (1) oversized mounting base attached to the drive, and one (1) patent-pending acoustic in-wall mounting bracket. The bracket comes with four (4) #8-32 x 5/16" Phillips flat head machine screws for mounting the drive to the bracket. Installation also requires four (4) screws and spray adhesive (screws and adhesive supplied by the installer). When ordering, be sure to specify 160C, 240C or 120C.
 - **For wood surfaces:** For installation on wood surfaces (including various porous surfaces such as tables and desks with laminate and composite surfaces), the SolidDrive comes with one (1) SolidDrive SD1sm unit and one (1) attached wiring harness with Eurostyle connector with an oversized mounting base attached to the drive for installation with wood screws (screws supplied by installer).
 - **For glass surfaces:** For installation on glass and other smooth, non-porous surfaces, the SolidDrive SD1g comes with one (1) SolidDrive unit, one (1) attached wiring harness with Eurostyle connector and one (1) VHB double-sided adhesive disc. No additional mounting materials are needed.

Q. What does SolidDrive look like?

A. The SolidDrive looks like a two-inch chrome cylinder.



SD1 Desktop SolidDrive Kit – For use on horizontal surfaces including wood, glass, metal, granite, ceramics, laminates and composites. Special silicone rubber pad “grips” any non-porous surface.



SD1g SolidDrive – For use vertically or horizontally on glass or other smooth, non-porous materials. The SD1g is attached to a surface with double-sided adhesive disc.



SD1 SolidDrive – For use mounted “In-wall” and “In-ceiling” for completely invisible audio systems. The SolidDrive SD1 mounts inside of walls or above ceilings utilizing the patent-pending balanced cantilever spring bracket that spans the studs, providing strength, stability, and vibration free operation.



SD1 SM – For use mounted to wood and other porous surfaces. The SolidDrive SD1sm mounts to the surface by utilizing four screws to securely attach the SolidDrive underneath wood desks, tables, cabinets, paneling, and even under hardwood floors.

Q. How is SolidDrive installed in walls and ceilings?

A. SolidDrive installs behind walls and ceilings, making direct contact with and adhered to the back side of the drywall with spray adhesive. The SolidDrive is held in place by a special acoustic mounting bracket that attaches to wall studs and ceiling joists with wood screws.

Installation can be done both before drywall installation and into existing drywall. Please note that short installation videos are posted online, as well, at www.soliddrive.com.

Before drywall: The mounting bracket is installed between the wall studs and wood screws. The SolidDrive is installed into the mounting bracket with four machine screws, and the electrical connections are then made. Adhesive is sprayed on the mounting base of the SolidDrive and on the adjacent area on the back side of the drywall just before it is fitted against the wall and screwed to the wall studs. The normal mud and tape routine will finish the walls.

Into existing drywall: An opening is cut into the wall, and the SolidDrive mounting bracket is installed between the wall studs with wood screws. The SolidDrive is installed into the mounting bracket with four machine screws, and the electrical connections are then made. Adhesive is sprayed on the mounting base of the SolidDrive and on the adjacent area on the backside of the drywall cutout then refitted into the opening against the wall. The normal mud and tape routine will finish the walls.

Q. How is SolidDrive installed into existing ceilings?

A. If the ceiling is accessible from above, SolidDrive can be placed directly onto the top surface of the drywall without the mounting bracket and affixed with spray adhesive. If not accessible from above, installation is done the same as if it were in a wall.

Q. What is unique about the SolidDrive acoustic in-wall mounting system?

A. The SolidDrive in-wall mounting system consists of a patent-pending, balanced cantilever spring bracket that spans the studs, providing strength, stability and vibration-free operation.

Q. What does the SolidDrive mounting bracket look like?

A. The SolidDrive in-wall mounting bracket is pictured below.



SolidDrive Mounting Bracket – sturdy, galvanized steel in-wall bracket supports the SolidDrive SD1 and attaches directly and securely to wall studs.

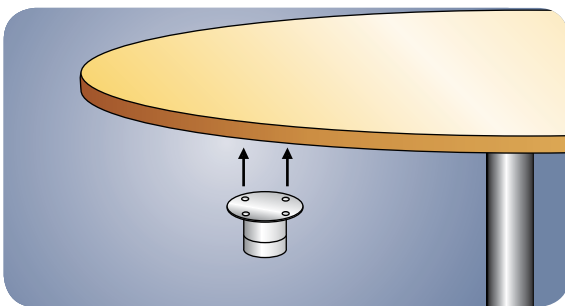
Q. Are custom mounting bracket sizes available?

A. Yes, custom mounting bracket sizes are available by calling Induction Dynamics at 866.663.9770.

Q. How is SolidDrive installed on wood surfaces?

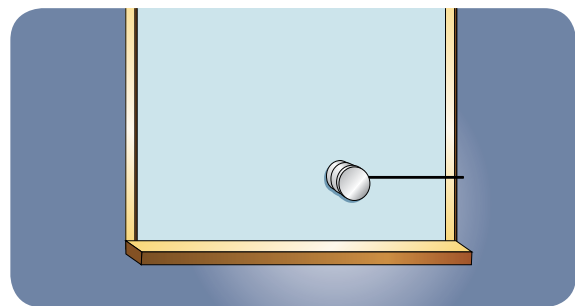
A. SolidDrive can be mounted under conference tables or desks by screwing it directly to the underside of the table, as indicated in the illustration below. One (1) SolidDrive should be used for every 5 to 6 feet of table length. The SolidDrive should be mounted in the center, underneath the table, with the oversized mounting base facing the mounting area. The SolidDrive is then connected to the amplifier.

To ensure an optimal listening experience, the installer **MUST** equalize the SolidDrive sound systems. Equalization is accomplished by using the SolidDrive Wood Passive Equalization Module. Equalization is accomplished by using the SolidDrive Wood Passive Equalization Module.



Q. How is SolidDrive installed onto glass surfaces?

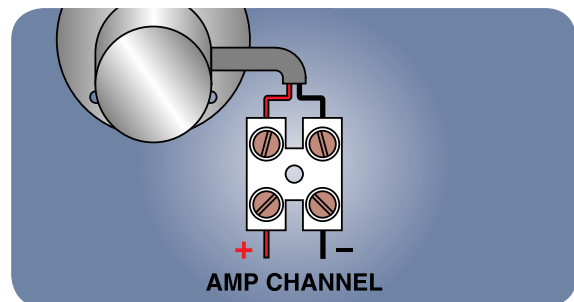
A. SolidDrive can be installed on windows to deliver sound to glass storefronts and glass reception areas or on glass table tops, as indicated in the illustration below. The double-sided adhesive disc that comes with the drive is applied to the base of the drive, and the other side of the disk is pressed to the glass surface with moderate pressure. The SolidDrive will have maximum output with at least 20 square feet of window surface space. The SolidDrive is then connected to an amplifier.



To ensure an optimal listening experience, the installer **MUST** equalize the SolidDrive sound system. Equalization is accomplished by using the SolidDrive Glass Passive Equalization Module.

Q. How should the electrical connections be made when installing the SolidDrive?

A. Make the electrical connection between the SolidDrive and speaker cable using the Eurostyle connector attached to the end of the SolidDrive audio cable. The polarity of the wiring is clearly indicated as shown in the illustration below.

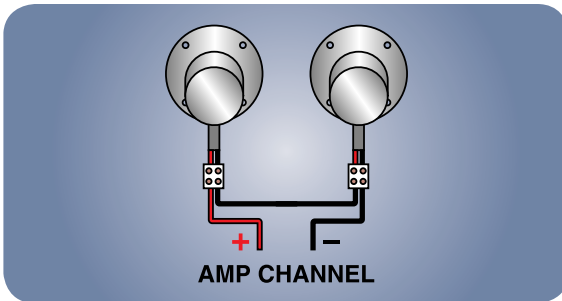


Q. What about high output installations?

A. For installations requiring high output, such as a large conference table, large glass windows or other high output type application, two (2) SolidDrives should be used for each of the high output

channels. For example, use two SolidDrives for the left, right and center channel of a home theater or the left and right channels of a high output stereo system. The two SolidDrives should be wired in series for each of the high output channels as indicated in the illustration below.

For maximum output, each SolidDrive channel should have available at least 20 square feet of surface area.



Q. How is the SolidDrive sound system optimized for optimal sound quality?

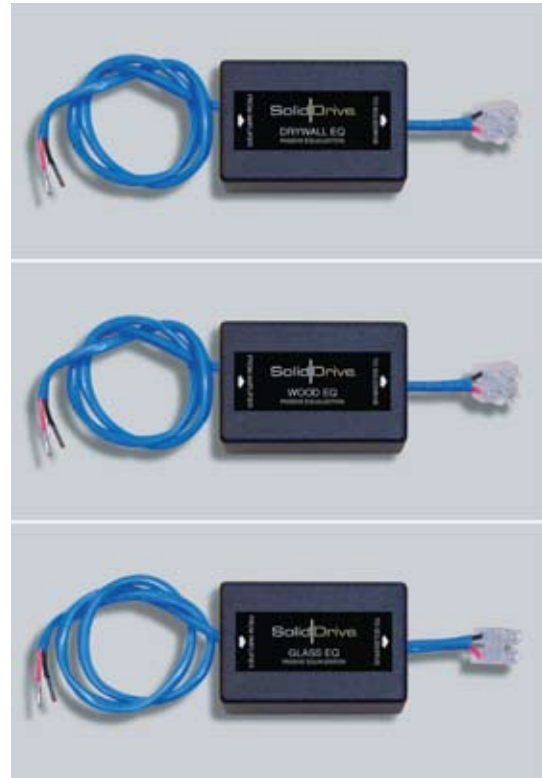
A. The surface material plays a key role in the system's sound performance. To ensure an optimal listening experience, the installer **MUST** equalize the SolidDrive system. Equalization is accomplished by using one of the SolidDrive Passive Equalization Modules (Drywall EQ, Wood EQ or Glass EQ) or by using the auto equalization feature available on some receivers. One SolidDrive Equalization Module should be used with each SolidDrive that is installed.

Q. How do the SolidDrive Passive Equalization Modules work?

A. The SolidDrive Passive Equalization Modules use special electronic circuitry with notch filters that correct peaks in the frequency response. The circuitry differs depending on the surface material to which SolidDrive is mounted – drywall, wood and glass.

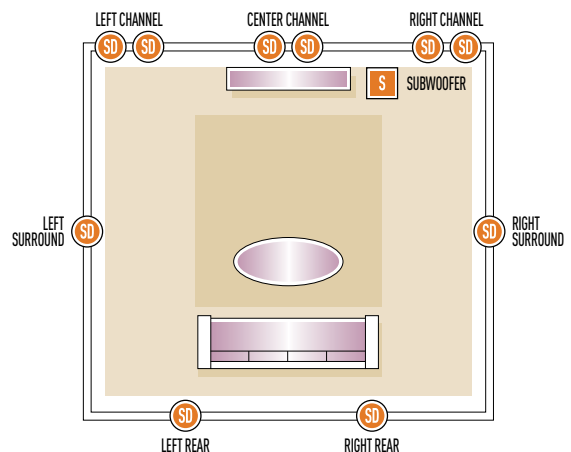
Q. What do the SolidDrive Passive Equalization Modules look like?

A. The SolidDrive Passive Equalization Modules for drywall, wood and glass are pictured below.



Q. Where should SolidDrive be placed for home theater applications?

A. The SolidDrive will create the powerful sound, full frequency response range for multi-channel home theater systems. Home theater set up for the DTS 7.1 system should be placed as designated in the diagram below.



Q. How many SolidDrives are needed for a home theater installation?

A. A DTS 7.1 home theater sound system will require 10 SolidDrives and a subwoofer – 2 SolidDrives for each of the left, right, and center front channels; 2 SolidDrives for each of the left and right surrounds; and 2 SolidDrives for each of the left and right rear channels.

Q. Can conventional speakers be combined with SolidDrive?

A. Yes, SolidDrive can be combined with speakers to achieve the desired sound quality. Induction Dynamics has a full line of speakers to achieve the desired sound quality. Induction Dynamics has a full line of speakers available through a nationwide dealer network. To find an Induction Dynamics dealer, call Induction Dynamics toll-free at 866.663.9770.

Q. What SolidDrive subwoofer options are there?

A. SolidDrive in-wall subwoofers are available and are the ideal companion to SolidDrive. SolidDrive subwoofers are designed to be installed “in-wall” to be out of sight, provide deep accurate bass, and, together with the SolidDrive, create the ultimate in-wall home theater system.

The SolidDrive subwoofers are available in two basic models: the SW7.iw, using a single 7” driver, and the SW8.iw, using dual 8” drivers.

The 8” is an active subwoofer, whereas the 7” is available as an active or passive subwoofer. *Active* means that it is specifically designed to work in conjunction with the A4 amplifier. Both models can be ordered individually or with the 200-watt SolidDrive A4 Subwoofer Amplifier.

Q. What are the benefits of SolidDrive subwoofers?

- A.** The benefits of SolidDrive subwoofers are that they:
- Can be installed “in-wall” to be out of sight
 - Are easily mounted vertically between standard wall studs
 - Create deep, accurate bass without altering a room’s design
 - Have grilles that are paintable to blend seamlessly into any room’s color scheme
 - Combine with the SolidDrive to create the

- ultimate “in-wall” home theater sound system
- Feature a 7-year warranty

Q. Where should SolidDrive subwoofers be placed in a room?

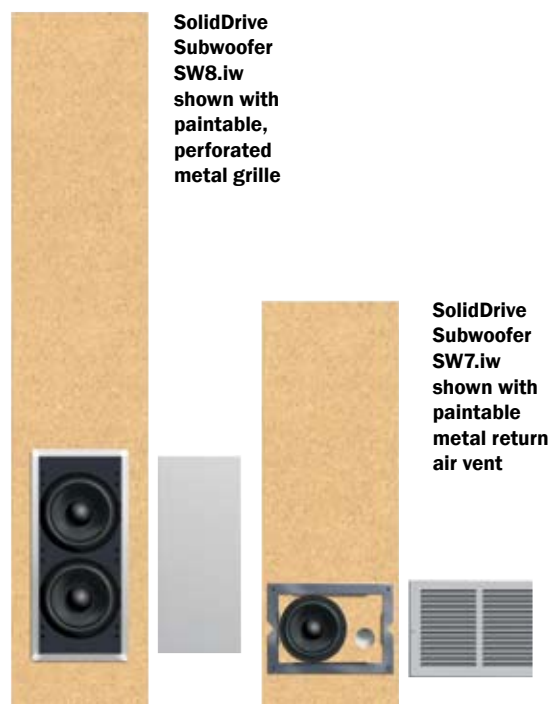
A. The SolidDrive subwoofers should be placed in a discrete location, allowing for mounting on studs at a 16” interval. There should be adequate height at the face of the wall for the enclosures.

Q. How are SolidDrive subwoofers packaged?

A. SolidDrive subwoofers are shipped with the subwoofer and enclosure, applicable grilles with grille mounting hardware, and an optional A4 Subwoofer Amplifier. Additional hardware is required for mounting the subwoofer into the wall.

Q. What do the SolidDrive in-wall subwoofers look like?

A. The two SolidDrive in-wall subwoofers are pictured below.



Q. What are the subwoofer amplifier requirements?

A. SolidDrive subwoofers will work with any amplifier that has a 4 ohm output. The recommended wattage is up to 200 watts for music.

Induction Dynamics recommends the SolidDrive A4 Subwoofer Amplifier that provides 200 watts/350 watts peak, ideally suited for the SolidDrive subwoofers. The A4 has adjustable gain control, variable low frequency equalization and will power multiple subwoofers.

Q. What does the SolidDrive A4 Amplifier look like?

A. The SolidDrive A4 Amplifier is pictured below.



Q. What is the SolidDrive Desktop?

A. The SolidDrive Desktop is a portable sound system that turns a rigid, horizontal, flat surface including glass, granite, metal, wood, ceramics, laminates and composites into a high-quality sound source.

Q. How does the SolidDrive Desktop work?

A. The SolidDrive Desktop uses the same technology as the SolidDrive to convert an audio signal into a powerful vibration that can be transferred into a hard surface such as a table, evenly delivering sound from the entire surface.

Q. What makes the SolidDrive Desktop unique?

A. The SolidDrive Desktop is a compact, portable sound system that produces a big sound. The size of the SolidDrive Desktop makes it easy to carry with a laptop computer, portable CD player, projector or other sound source.

Q. What devices are compatible with the SolidDrive Desktop?

A. The SolidDrive Desktop can be connected to laptop computers, CD players, MP3 players, DVD players, projectors, video conferencing systems and other AV equipment using a 3.5mm stereo jack, the standard size for most headphones. The special silicone rubber pad “grips” any non-porous surface.

Q. What is the frequency range of the SolidDrive Desktop?

A. The SolidDrive Desktop can reproduce a wide range of audio frequencies, ranging from 60 Hz to 15 kHz, making it ideal for most boardroom presentations.

Q. What does the SolidDrive Desktop unit look like?

A. The SolidDrive Desktop is pictured below.



Q. How is the SolidDrive Desktop packaged?

A. The SolidDrive Desktop comes as a complete kit. The SolidDrive Desktop Kit includes one (1) SolidDrive SD1 Desktop, one (1) mini amplifier, a 12V DC power supply, one (1) passive equalization module, four (4) electrical outlet adapters, all necessary cabling, instructions and durable, padded carrying case.

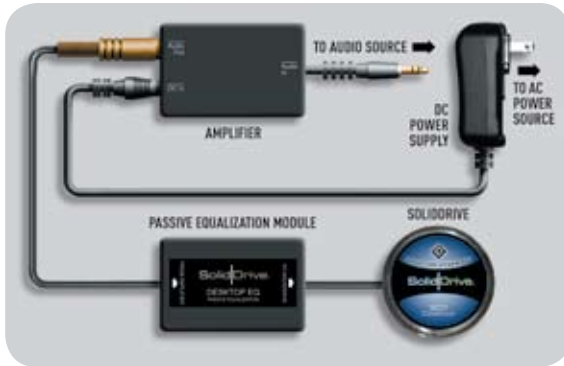
Q. What does the SolidDrive Desktop Kit look like?

A. The SolidDrive Desktop Kit is pictured below.



Q. How is the SolidDrive Desktop Kit assembled?

- A.** The SolidDrive Desktop Kit is easily assembled, as shown below.



Q. Where can the SolidDrive be purchased?

- A.** The SolidDrive is available through a worldwide dealer network. To find SolidDrive, call Induction Dynamics toll free at 866.663.9770.