The enjoyment of music is the cornerstone of everything we do. Our mission is to bring a high quality audio experience to you regardless the circumstances.

We know that finding space for traditional boxed loudspeakers in a room is sometimes not possible, requiring speakers to be discreetly hidden away in either the ceiling or walls. With DALI’s custom install range of loudspeakers, the DALI PHANTOM Series, we now offer more options than ever before to have the traditional DALI boxed speakers’ high quality sound performance without having to give up valuable living room real estate.
DALI PHANTOM S Series

The DALI PHANTOM S series offers the ultimate in performance when it comes to custom install loudspeakers, offering a no-compromise in-wall audio solution. With the use of proven speaker technologies, such as solid MDF front baffle, wood fibre cones, low-loss surround, and superior magnet design combined with our latest innovation, including SMC pole piece and our signature hybrid tweeter module, the PHANTOM S series really stands out from the crowd.

The primary 8” woofer is optimised for both bass and mid-range performance, and to ensure the best possible bass performance with the two larger models in the series, we have paired a 10” passive woofer with the primary woofer(s). This results in a full frequency response similar to that of a boxed floor standing speaker.

The DALI PHANTOM S-280

The S-280 is truly a flagship in-wall speaker. This impressive unit contains an optimised rotatable hybrid tweeter module with two 8” bass/mid-range woofers and no less than two 10” passive drivers. Clean, coherent, detailed powerful and room filling sound is what this speaker is all about. If you are looking for a no compromise performance in an in-wall speaker the PHANTOM S-280 delivers!

The DALI PHANTOM S-180

The S-180 combines the 8” primary woofer with a larger 10” passive driver. This combination enables the PHANTOM S-180 to reach even deeper down in the lower frequencies and reproduces the audio signals on par with a traditional floor standing speaker. Despite this, it is still a compact speaker that is just perfect as front or centre speaker in your audio system.

The DALI PHANTOM S-80

Compact yet powerful, with its 8” bass/mid-range woofer working in combination with the rotatable hybrid tweeter module, the PHANTOM S-80 delivers a clear and very well defined audio reproduction, including outstanding bass performance. The relative compactness of the PHANTOM S-80 makes it perfect for any placement in your audio system - front, centre, or height speakers.

DALI PHANTOM S-160

The S-160 combines the 8” primary woofer with a larger 10” passive driver. This combination enables the PHANTOM S-160 to reach even deeper down in the lower frequencies and reproduces the audio signals on par with a traditional floor standing speaker. Despite this, it is still a compact speaker that is just perfect as front or centre speaker in your audio system.

The DALI PHANTOM S-280

The S-280 is truly a flagship in-wall speaker. This impressive unit contains an optimised rotatable hybrid tweeter module with two 8” bass/mid-range woofers and no less than two 10” passive drivers. Clean, coherent, detailed powerful and room filling sound is what this speaker is all about. If you are looking for a no compromise performance in an in-wall speaker the PHANTOM S-280 delivers!

The DALI PHANTOM S-180

The S-180 combines the 8” primary woofer with a larger 10” passive driver. This combination enables the PHANTOM S-180 to reach even deeper down in the lower frequencies and reproduces the audio signals on par with a traditional floor standing speaker. Despite this, it is still a compact speaker that is just perfect as front or centre speaker in your audio system.

The DALI PHANTOM S-80

Compact yet powerful, with its 8” bass/mid-range woofer working in combination with the rotatable hybrid tweeter module, the PHANTOM S-80 delivers a clear and very well defined audio reproduction, including outstanding bass performance. The relative compactness of the PHANTOM S-80 makes it perfect for any placement in your audio system - front, centre, or height speakers.

DALI SMC Technology

SMC (Soft Magnetic Compound) have the unique ability of delivering very high magnetic conductivity and very low electrochemical conductivity, thereby drastically lowering the effects of hysteresis and eddy currents around the pole piece, whilst at the same time delivering all the wanted qualities of a good speaker magnet system. The result is a significant lowering of the effects of mechanical distortion in the reproduced sound.
Front speakers: DALI PHANTOM S-180
Centre speaker: DALI PHANTOM S-80
The DALI PHANTOM H series is an in-wall speaker range built around traditional speaker technologies. At its core is the widely recognisable DALI woofer cone made from a mix of paper pulp and wood fibre. This gives the cone a light, well behaved, but random structure that helps reproduce even the smallest details in the music. The powerful low-loss magnet system delivers precision and timing to the low frequencies and the ultra-lightweight soft dome tweeter adds great resolution to the high frequencies. Together, they blend into a very coherent, highly detailed, clear and natural soundstage. The PHANTOM H series offers true full range performance without the necessity of adding a subwoofer for bass support.

DALI PHANTOM H-80

The PHANTOM H-80 is the loudspeaker of choice, when large, dynamic and well-defined sound really matters. The sound performance is clear, detailed and yet controlled and powerful. As for the soundstage, it will extend into every corner of even larger rooms.

DALI PHANTOM H-60

The PHANTOM H-60 provides the perfect balance between size and performance, producing a full and complete audio experience in mid-sized rooms. The PHANTOM H-60 is equipped with a 6.5” woofer and designed for optimum in-wall use, but can also be mounted in the ceiling.

DALI PHANTOM H-50

The compact PHANTOM H-50 delivers impressive clarity and despite its size it manages to generate a great deal of bass. It will easily fill small rooms with great sound in a stereo or surround setup. The PHANTOM H-50 is equipped with a 5.25” woofer and designed for optimum in-wall use, but can also be mounted in the ceiling.

DALI PHANTOM H-120

The totally unique PHANTOM H-120 in-wall loudspeaker brings the best from a traditional big floor standing loudspeaker, but is mounted in your wall. With an unprecedented 12” woofer to deliver deep and powerful bass, and a separate 5” woofer to handle the important mid-range area, this 3-way speaker delivers like no other in-wall loudspeaker in the world. Perfect for installations where normal floor-standing speakers or an external subwoofer cannot be used, or when deep room filling bass is essential.

DALI PHANTOM H series

The DALI PHANTOM H series is an in-wall speaker range built around traditional speaker technologies. At its core is the widely recognisable DALI woofer cone made from a mix of paper pulp and wood fibre. This gives the cone a light, well behaved, but random structure that helps reproduce even the smallest details in the music. The powerful low-loss magnet system delivers precision and timing to the low frequencies and the ultra-lightweight soft dome tweeter adds great resolution to the high frequencies. Together, they blend into a very coherent, highly detailed, clear and natural soundstage. The PHANTOM H series offers true full range performance without the necessity of adding a subwoofer for bass support.

DALI PHANTOM H-80

The PHANTOM H-80 is the loudspeaker of choice, when large, dynamic and well-defined sound really matters. The sound performance is clear, detailed and yet controlled and powerful. As for the soundstage, it will extend into every corner of even larger rooms.

DALI PHANTOM H-60

The PHANTOM H-60 provides the perfect balance between size and performance, producing a full and complete audio experience in mid-sized rooms. The PHANTOM H-60 is equipped with a 6.5” woofer and designed for optimum in-wall use, but can also be mounted in the ceiling.

DALI PHANTOM H-50

The compact PHANTOM H-50 delivers impressive clarity and despite its size it manages to generate a great deal of bass. It will easily fill small rooms with great sound in a stereo or surround setup. The PHANTOM H-50 is equipped with a 5.25” woofer and designed for optimum in-wall use, but can also be mounted in the ceiling.

DALI PHANTOM H-120

The totally unique PHANTOM H-120 in-wall loudspeaker brings the best from a traditional big floor standing loudspeaker, but is mounted in your wall. With an unprecedented 12” woofer to deliver deep and powerful bass, and a separate 5” woofer to handle the important mid-range area, this 3-way speaker delivers like no other in-wall loudspeaker in the world. Perfect for installations where normal floor-standing speakers or an external subwoofer cannot be used, or when deep room filling bass is essential.
The DALI PHANTOM E-series is designed for optimum in-ceiling use, but can also be mounted for in-wall solutions. The compact sized construction and the easy-to-use compass positioning system makes placing the speaker for the optimum sound experience extremely simple. Two discreet switches offer audio adjustment options to ensure that the listener gets the most from the speakers, even in rooms that traditionally are difficult to handle acoustically.

The tilted woofer and the slightly off centre dome tweeter blends gracefully and produces a richly detailed and crisp soundstage. The polypropylene cone is more resilient towards humidity than the traditional DALI cone material – wood fibre, making the PHANTOM E-series flexible in regards to placements in covered outdoor areas and bathrooms. Optionally, the PHANTOM E-series can be fitted with a square front grill.

When the ideal speaker placement is located, carefully cut out the wall or ceiling using the supplied template as a guide, fasten the cable inside the ceiling/wall and carefully connect the cables between the speaker and your amplifier. Always turn on your stereo and listen to music before final mounting is completed. Insert the loudspeaker into the wall/ceiling opening, align the loudspeaker, and be careful not to touch the drivers during installation. Then just tighten the screws in the brackets. Done!
BEFORE Installation

Before installation, the DALI range of install speakers offer a variety of options and are the ultimate solution for a concealed sound source. With "invisible" speakers, listeners and viewers are allowed to focus on the musical event and/or the on-screen action. So if properly fitted and fixed, the audio performance can fully match that of a traditional floor standing or shelf speaker.

DALI's in-ceiling solutions allow you to spread sound evenly in areas that are inaccessible with conventional box speakers. Once installed, in-wall speakers are even shallower than your flat panel screen. In-wall speakers offer the same audio system configuration options as traditional box speakers, including 2.0, 2.1, 5.1, 6.1.

SOUND TIPS
- DALI in-wall speakers benefit from DALI's Wide Dispersion design principle providing a well-balanced sound and a uniform sound field throughout the listening area.
- DALI in-ceiling solutions allow you to spread sound evenly in areas that are inaccessible with conventional box speakers.
- DALI's in-stall speakers benefit from DALI's Wide Dispersion design principle providing a well-balanced sound and a uniform sound field throughout the listening area.

PLACEMENT TIPS
- Make sure there is sufficient space behind the wall/ceiling surface to accept the full depth of the in-stall speaker.
- Bear in mind that the cut out dimensions are smaller than the speaker itself, so measure twice and cut once.
- If for any reason, there is insufficient space inside the wall for in-wall speakers, you can alternatively build a false wall mounted on the wall using nails and geturc board or similar construction panels. This solution also allows you the option of flush-mounting your flat-screen TV in the false wall for a complete, discreet system.
- Please take special care with cabling. If long cable runs are required (in excess of 50 meters), use cable with sufficient cross section of minimum 1.5 sq mm (minimum AWG 16).
- For the optimal listening experience, always mount the in-stall speakers well away from room corners in order to minimise the deleterious effects of hard, direct sound reflections.

Possible Sound Application by model:
- Front speakers (left/right)
- Rear/Surround speakers (left/right)
- Center speakers

Possible Placement by model:
- In walls
- In ceilings
- Backbox features:
  - Backbox available as accessory
  - Integrated cabinet
- Accessory Options:
  - Square front grill
- Installation features:
  - New buildings
  - Retrofit - can be front mounted

X Solution optimised for (X) Solution works fine:

<table>
<thead>
<tr>
<th>Model</th>
<th>PHANTOM E-60</th>
<th>PHANTOM E-50</th>
<th>PHANTOM E-80</th>
<th>PHANTOM H-50</th>
<th>PHANTOM H-60</th>
<th>PHANTOM H-80</th>
<th>PHANTOM H-120</th>
<th>PHANTOM S-80</th>
<th>PHANTOM S-180</th>
<th>PHANTOM S-280</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

DALI Wide Dispersion design principle

DALI PHANTOM E-60

PHANTOM E-60
PHANTOM E-50
PHANTOM E-80
PHANTOM H-50
PHANTOM H-60
PHANTOM H-80
PHANTOM H-120
PHANTOM S-80
PHANTOM S-180
PHANTOM S-280
DALI Subwoofers

A DALI subwoofer provides the link between the sound of standard audio reproduction and the sound of reality! In a home cinema multi-channel surround system the purpose of a subwoofer is to provide the bass tones that let you experience the true fidelity of wideband multi-channel recordings.

DALI subwoofers contradict the common (and sometimes reasonable) prejudice against boomy bass boxes. When properly installed, a DALI subwoofer will enable any sound system to reach a higher fidelity!

DALI SUB M-10

The DALI SUB M-10 D is a dedicated for home cinema sub featuring a “cinema mode” option to bring added punch into your movie experience. With a down-firing woofer, the SUB M-10 D easily reflects the bass out in the room enabling the perfect room integration. A 10 inch long stroke design woofer, featuring rigid carbon fibre cones and massive magnet system, are fitted into an elegantly styled, compact enclosure combined with a powerful digital amplifier with a dynamic output of 500W RMS.

DALI SUB K-14

Whether the task is to fill the room with stereo music or to feel the tremor from a movie soundtrack, the DALI SUB K-14 F will deliver! Built around a 14" aluminium long-stroke woofer and with 500 watt Class-D amplifier, the DALI SUB K-14 F has the power and the control to complete any stereo or multi-channel set-up.

DALI SUB E-12 F

The heart of this subwoofer is the 12" aluminium long-stroke driver, powered by an ultra-efficient Class-D amplifier. The SUB E-12 F delivers a seamless low frequency extension of your AV system, and a powerful, well-balanced bass reproduction. The aluminium cone woofer is capable of moving plenty of air with power and pistonic precision.

DALI CONNECT cables

To achieve the ultimate audio experience, we make use of true concentric stranding, a principle used for internal cabling in DALI speakers for more than three decades. Layers of carefully selected insulation create a uniform pressure on the ultra-pure conductors, effectively eliminating any acoustic memory of the insulating material.

DALI CONNECT SC RM230ST – Ultra Transparent Speaker Cable

This cable will take you a great step closer to the sound of authenticity. The high purity FEP inner shielding keeps the conduction bundles in a vice grip, offering an impressively low dielectric absorption. The elements that make up this unique speaker cable are 0.23 mm silver plated copper wires for ultra high frequencies, a polyethylene (PE) outer shielding, and a polyethylene (PE) outer shielding which all bring their individual contribution towards achieving DALI’s goal of uncoloured, clear and well-defined sound.

DALI CONNECT SC RM230S – Absolute Clarity Speaker Cable

Each of the 74 strands of copper wire is silver plated to help improve performance in the ultra high frequencies, adding just that extra bit of clarity to complete the perfect experience. Together with the outer mesh look this cable is the perfect companion for any high-quality speaker set-up.

DALI CONNECT SC RM230C – High Definition Speaker Cable

With the impressive 74 strands (each 0.23 mm) copper wires this cable steps up in game and is ready to deliver a true high-definition signal. Each conductor bundle is individually shielded in polyethylene (PE), and revolving around each other for even better mechanical hold. The outer shielding is covered with a black mesh adding a distinct look that will match any DALI speakers and many more.

DALI CONNECT SC F222C – Premium Speaker Cable

The ridged structure and the lower impedance makes this cable perfect for piping over longer distances when used for install speaker setups. The 57 strands (each 0.22 mm) are embedded in a polyethylene (PE) shielding for better mechanical stability and less dielectric absorption. The flexible outer shielding matches door frames, baseboards and walls, also offering the ability to conveniently hook to wooden panels.

See the full DALI subwoofer range on dali-speakers.com
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range +/- 3 dB [Hz]</td>
<td>48 - 25,000</td>
<td>49 - 25,000</td>
<td>59 - 25,000</td>
<td>52 - 25,000</td>
<td>51 - 25,000</td>
<td>51 - 25,000</td>
<td>52 - 25,000</td>
<td>49 - 25,000</td>
<td>52 - 25,000</td>
<td>58 - 25,000</td>
</tr>
<tr>
<td>Sensitivity (2.83V/1m) [dB]</td>
<td>89</td>
<td>89</td>
<td>88</td>
<td>90.0</td>
<td>90</td>
<td>89</td>
<td>89</td>
<td>89.5</td>
<td>88</td>
<td>87</td>
</tr>
<tr>
<td>Nominal Impedance [ohm]</td>
<td>6</td>
<td>6</td>
<td>8</td>
<td>6</td>
<td>8</td>
<td>6</td>
<td>8</td>
<td>6</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Maximum SPL [dB]</td>
<td>112</td>
<td>109</td>
<td>108</td>
<td>112</td>
<td>109</td>
<td>107</td>
<td>105</td>
<td>105</td>
<td>105</td>
<td>104</td>
</tr>
<tr>
<td>Crossover Frequency [Hz]</td>
<td>3,000 / 15,000</td>
<td>2,800 / 15,000</td>
<td>2,800 / 15,000</td>
<td>850 / 4000</td>
<td>2,350 Hz</td>
<td>1,900 Hz</td>
<td>2,450 Hz</td>
<td>3,200 Hz</td>
<td>3,300 Hz</td>
<td>3,600 Hz</td>
</tr>
<tr>
<td>Crossover Principle</td>
<td>2 1/2-way</td>
<td>2 1/2-way</td>
<td>2 1/2-way</td>
<td>3-way</td>
<td>2-way</td>
<td>2-way</td>
<td>2-way</td>
<td>2-way</td>
<td>2-way</td>
<td>2-way</td>
</tr>
<tr>
<td>Recommended Amplifier Power [Watt]</td>
<td>40 - 400</td>
<td>40 - 200</td>
<td>40 - 200</td>
<td>50 - 400</td>
<td>30 - 200</td>
<td>30 - 150</td>
<td>20 - 120</td>
<td>30 - 120</td>
<td>30 - 120</td>
<td>40 - 120</td>
</tr>
<tr>
<td>High Frequency Driver</td>
<td>1 x 28 mm soft dome</td>
<td>1 x 28 mm soft dome</td>
<td>1 x 28 mm soft dome</td>
<td>1 x 28 mm soft dome</td>
<td>1 x 28 mm soft dome</td>
<td>1 x 28 mm soft dome</td>
<td>1 x 28 mm soft dome</td>
<td>1 x 28 mm soft dome</td>
<td>1 x 28 mm soft dome</td>
<td>1 x 28 mm soft dome</td>
</tr>
<tr>
<td>Low Frequency Driver/Mid-range Driver(s)</td>
<td>8” Wood Fibre Cone</td>
<td>8” Wood Fibre Cone</td>
<td>8” Wood Fibre Cone</td>
<td>8” Wood Fibre Cone</td>
<td>8” Wood Fibre Cone</td>
<td>8” Wood Fibre Cone</td>
<td>8” Wood Fibre Cone</td>
<td>8” Wood Fibre Cone</td>
<td>8” Wood Fibre Cone</td>
<td>8” Wood Fibre Cone</td>
</tr>
<tr>
<td>Enclosure type</td>
<td>Passive Radiator Box</td>
<td>Passive Radiator Box</td>
<td>Closed Box</td>
<td>Open back</td>
<td>Open back</td>
<td>Open back</td>
<td>Open back</td>
<td>Open back</td>
<td>Open back</td>
<td>Open back</td>
</tr>
<tr>
<td>Functions</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Normal/HF Tr, Focus/Distributed</td>
<td>Normal/HF Tr, Focus/Distributed</td>
<td>Normal/HF Tr, Focus/Distributed</td>
<td>Normal/HF Tr, Focus/Distributed</td>
<td>Normal/HF Tr, Focus/Distributed</td>
<td>Normal/HF Tr, Focus/Distributed</td>
</tr>
<tr>
<td>Dimensions (H x W x D) [cm]</td>
<td>152.7 x 52.7 x 11.0</td>
<td>60.1 x 20.7 x 4.3</td>
<td>149.5 x 49.5 x 10.3</td>
<td>58.9 x 19.5 x 4.4</td>
<td>50.0 - 100</td>
<td>10 - 100</td>
<td>10 - 100</td>
<td>10 - 100</td>
<td>10 - 100</td>
<td>10 - 100</td>
</tr>
<tr>
<td>Cut-out Dimensions (H x W x D) [inch]</td>
<td>6 x 2 x 0.4</td>
<td>2 x 0.7 x 0.2</td>
<td>5 x 1.9 x 0.4</td>
<td>2.3 x 0.7 x 0.2</td>
<td>1.9 - 4.0</td>
<td>1.9 - 4.0</td>
<td>1.9 - 4.0</td>
<td>1.9 - 4.0</td>
<td>1.9 - 4.0</td>
<td>1.9 - 4.0</td>
</tr>
<tr>
<td>Recommended Volume [litre]</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Weight [kg/lbs]</td>
<td>35.0/77.2</td>
<td>16.5/40.8</td>
<td>13.5/29.8</td>
<td>9.0/19.8</td>
<td>5.0 - 10.0</td>
<td>1.0 - 2.5</td>
<td>1.0 - 2.5</td>
<td>1.0 - 2.5</td>
<td>1.0 - 2.5</td>
<td>1.0 - 2.5</td>
</tr>
<tr>
<td>Optional Accessories</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

All technical specifications are subject to change without notice.