

SURROUND



AUDIO

# MANUAL

# Elegance

*Magic Moments*



Denmark

[www.dali.dk](http://www.dali.dk)



# *D*anish *A*udiophile *L*oudspeaker *I*ndustries

DALI is renowned among music lovers throughout the world for its unique speakers and cables, all constructed and build for uncompromising design and sound requirements. Our ultra-modern factory in Denmark is fully equipped with facilities for development and production of quality speakers.

Dali's principal competence is development and optimisation of known and new technology in the field of audio and acoustics. The result is continuous development and optimisation of new and existing models.

We always keep our goal firmly in view for each and every DALI speaker: To recreate sound experiences in your home that will carry you away, making you forget time and place...

It is important to us that your new DALI speakers be set up and connected optimally. This manual contains our recommendations for setup, connection and maintenance.

**Enjoy!**



## Manual

Congratulations on the purchase of your new DALI Elegance speakers. This manual contains information on setup and maintenance of DALI Elegance.

## Running-in

Like any other mechanical system, a speaker needs to be "run in", so you can look forward to a gradual improvement in sound quality over the initial period. Unlike other mechanical systems, regular use will in fact extend your loudspeakers lifetime.

## Numerous possibilities

Your DALI Elegance speakers have been designed with a view to offering a wide range of positioning and application options. The compact design, magnetic shielding and multi-adjustable wall bracket afford countless possibilities, such as:

- Discreet stereo speakers
- Surround sound speakers for 5 or more channels
- Speakers for computers with Hi-Fi sound
- Stereo speakers in another room

## Wall mounting



DALI Elegance comes complete with fittings for wall mounting. We recommend that mounting be entrusted to professionals, as the type of plugs and screws required varies greatly depending on the material of the wall.

Mount the "A" fitting is on the wall using screws, and possibly plugs, suitable for the material the wall is made of. The threaded hole in the bracket should face downwards. Fit the accompanying nylon bushing ("B") in the top. Mount the rail ("C") in the slot on the back of the speaker and then over fitting "A". Mount the accompanying nylon disc should be mounted at the base of fitting "A" between the fitting and rail "C", and then install thumbscrew "D" from the bottom through the rail and nylon disc into the screw thread in fitting "A".

Screws "D" and "E" should be loosely tightened. The speaker's position can now be adjusted both horizontally and vertically. Once you are happy with the positioning of the speaker, screws "D" and "E" should be fully tightened by hand. It is advisable to retighten the screws from time to time.

## Connection

The connection to your amplifier is extremely important for your sound experience.

**Always turn off your amplifier before connecting any cables or altering any connections.**

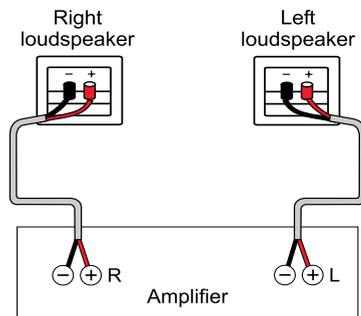


Fig. 1. Stereo connection

Always use cables of the same type and length for left and right speakers. We recommend using speaker cables from DALI, available from your dealer.

A detail that is often overlooked is connection in the correct phase, i.e. the red terminal (+) on the amplifier should be connected to the red terminal (+) on the speaker, and the black terminal (-) on the amplifier should be connected to the black terminal (-) on the speaker. (Fig. 1)

For the perfect sound experience, the right speaker must be connected to the output terminal marked "R" or "Right" on your amplifier and the left speaker to the terminal marked "L" or "Left". If just one speaker in a stereo or surround sound system is not connected in phase, the bass will be weak and the overall sound will be diffuse.

Surround sound amplifiers have similar output terminals to stereo speakers, usually labelled "Front", "Centre" and "Rear". (Fig. 3) For further information, please refer to the manual.

You must ensure that the cable ends are firmly pushed into the terminals, and that there are no loose wires, which could cause a short circuit and damage the amplifier. (Fig. 2)

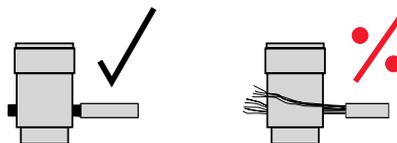


Fig. 2. Terminal connection

Using inferior cables for your new DALI speakers is just the same as putting cheap tyres on a thoroughbred racing car. Using cables from DALI, which have been specially designed, will ensure a perfect sound experience.

**Always switch off your amplifier before adjusting any of the cables!**

## Important cables

There is one area where you can significantly influence the sound quality - the cables between amplifier and speaker. This is a case where the rule 'any chain is only as strong as its weakest link' definitely applies. The fine and detailed signal from the amplifier must be conveyed to the speakers with minimum loss. The table below shows the maximum length your cables should be.

Cable cross section	AWG	Maximum length	
1,0 mm <sup>2</sup>	18 (17)	15 meter	50 feet
1,5 mm <sup>2</sup>	16	22 meter	75 feet
2,0 mm <sup>2</sup>	14	30 meter	100 feet
3,0 mm <sup>2</sup>	12	45 meter	150 feet

*AWG: American Wire Gauge*

DALI recommends using cables of at least 1.0 mm<sup>2</sup> in cross section. However, it is not just the cross section that is crucial to the sound. The actual structure of the cable and the materials employed can have a great influence on the sound image. We therefore recommend that you only use cables manufactured for this purpose. You can purchase DALI Wave cables from your authorised dealer, who will also be able to advise you on the best type for your requirements. Here is a cross section of the DALI Wave cables:

DALI White Wave:	1,5 mm <sup>2</sup>
DALI Red Wave:	3,0 mm <sup>2</sup>
DALI Silver Wave:	3,0 mm <sup>2</sup>

**DALI**  **WAVE**

## Positioning

Before connecting your new Elegance speakers, you need to begin the process of finding the optimum position for your speakers in relation to your listening position - and adjusting the surround sound amplifier, if applicable. It is worth spending a little time experimenting, as the correct setup and tuning will provide a significantly better sound experience. Here are some useful pieces of advice:

Avoid placing objects between the speakers and your listening position, as obstructions can cause incorrect tonal balance.

Try to ensure that the distance between the left and right speakers is equal to the distance from your listening position to the speakers (Fig. 3). If you have surround sound, the distance between all the speakers should be symmetrically identical (Fig. 4)

DALI Elegance has been designed using the Linear Directivity principle, which means that the tonal balance will be perfect, even if your listening position is not quite central. So, it is not necessary to angle the front speakers towards your listening position, unless the front speakers are very far apart. This is easily achieved with the adjustable wall mount.

DALI Elegance is specially designed for positioning close to your TV screen. If discolouration should occur on the screen, this can be corrected by moving the speaker a few centimetres forward or back.

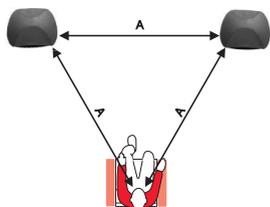


Fig. 3. Stereo positioning

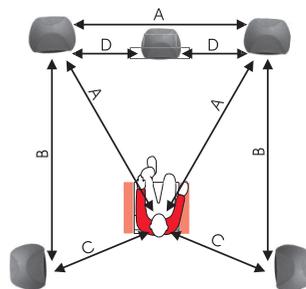


Fig. 4. Surround positioning

DALI Elegance provide the best sound experience when positioned at eye level - so that you can just see over the speaker from your listening position. Should that not be possible, however, it is a good idea to tilt the speakers slightly, either upwards or downwards, depending on whether their position is too high or too low. If the speakers are positioned very high they should be turned upside down so that the treble is at the bottom

No matter how or where they are positioned, your DALI speakers will give you an extraordinary listening experience, but for critical listening we recommend following the guidelines set out above.

## **The listening room**

Every room has its own distinctive acoustics, which influence the way we experience the sound from a speaker. In actual fact, it's a matter of how the room accommodates the sound and then dampens it. You can influence the acoustics of your listening room in various ways.

Some of the sound you hear does not come directly from the actual speakers but are reflections from floor, ceiling and walls. These reflections can be dampened by objects such as furniture, plants and carpets. If the sound is bright, adding soft items such as curtains and carpets can help. If the room has large window panes, drawing the curtains will prevent reflections from the glass surfaces.

Both the amount and quality of the deep bass depend on the size and shape of the room, and the position of the speakers. If positioned near a side or back wall, this will accentuate the bass. A corner location will accentuate it even more, but will also increase the reflections. The decision is yours, so experiment with different positions to find which provides the ideal sound for you.

As a general guide, avoid large, hard reflective surfaces immediately around the speakers, as these will act like an echo effect and weaken the spatial perspective of the sound image. Try placing a tapestry behind the speakers, laying a rug in front or placing a large plant at the side - it's surprising how much this can affect the precision of the sound image.

Once you are happy with the positioning of your speakers, it is important to ensure that they are completely stable. Use the accompanying rubber feet when standing Elegance on another unit, shelf etc.

## **Power and acoustic pressure**

How loud a speaker is able to play and still sound good is completely dependent on the signal it has to reproduce. So, in practice, you cannot define an unequivocal level for use in comparing different speakers.

Obviously, lots of pure, undistorted output from a large amplifier is better than a distorted signal from a small amplifier stretched beyond its capacity. The signal from a distorting (clipping) amplifier contains much more high-frequency information than an undistorted signal, and therefore puts a heavy strain on the treble unit. Consequently, speakers are most often damaged by small amplifiers having to work too hard - and very rarely by large amplifiers, which are practically running idle.

It is worth noting that when the tone controls are turned above the neutral setting this significantly burdens both speakers and amplifier. On a good sound system tone controls should only be used to compensate for poor recordings and not to permanently compensate for weaknesses elsewhere in the system. So, DALI recommends that the tone controls generally be set to the neutral position, and you achieve your desired sound image through correct positioning of the speakers.

Ensuring that you keep the volume low enough so the sound remains clear and undistorted will minimise the strain on both speakers and amplifier. DALI Elegance is equipped with an electric safety fuse, which will shut off the speaker in the event of prolonged periods of overloading. This safety fuse is not a guarantee against overloading, but is simply an extra safeguard. If the safety fuse switches off the sound, you should turn down the amplifier immediately. Once the speaker has cooled down again, the safety fuse will switch "on" automatically.

## DALI Elegance and family



DALI Elegance has been designed for use with a DALI Piano Forte subwoofer, which, with its good-sized cabinet, integral amplifier and large bass unit, delivers the desirable kind of deep bass that can really be felt. In a surround sound system DALI Piano Forte is an essential element of the spatial perspective, providing cinema-type sound. In terms of design Elegance and Forte are a perfect match, due in part to the fact that Forte can also be mounted on the wall - totally unique for a subwoofer.

Turn down the sound if the safety fuse shuts off the speaker.

## **DALI - more than meets the eye**

Your DALI speakers have been designed on the basis of a long succession of technical solutions based on many years' intensive development work. Most of this is not seen - but it can be heard and experienced, including:

**An even frequency response** ensures that your DALI speakers reproduce all tones and kinds of music faithfully and without emphasis.

**Sound distribution and correct timing** are among DALI's specialities, as all DALI speakers are designed for optimum performance in a real home environment and not just in a specially-constructed listening room. The perfect timing in the sound reproduction ensures that a light beat on a snare drum, for example, is reproduced as the light, sharp tap that it really is - without the drums filling and muddying the sound image.

**Extremely low loss in movable parts and linear impedance** means that the speakers can reproduce very fine details, even at low sound levels, and that DALI speakers will load your amplifier very evenly, and the sound will therefore not be "strained".

**Internal cables and crossover networks** are an important but frequently-overlooked point. The internal cables in your DALI speakers are our own Cordial cables, and the crossover networks, as with the rest of the speaker, have been assembled by hand using top-quality components.

**The loudspeaker units** in your DALI speakers have been developed based on our ultimate sound requirements. This ensures that the most delicate details, such as a harp string or a puff of air, will be reproduced just as convincingly as the powerful sound of a car door slamming etc.

**At DALI the cabinet** is both a piece of furniture and the speaker's sound base, and is therefore constructed from acoustically-correct materials. As with all the other components, the cabinets undergo a rigorous final inspection, guaranteeing that only perfect speakers leave the DALI factory.

## Specifications

There are countless methods for evaluating speakers. However, none of them actually represent how a speaker really sounds. It is up to the individual to decide whether one speaker sounds better than another. So we only give you the specifications that are of real value to you. The DALI Elegance has been designed to reproduce music as honestly as possible - and we know we have succeeded. Enjoy your new speakers!

<b>Model:</b>	Elegance 01
Frequency response +/-3dB (Hz)	100-24500
Impedance (ohm)	6
Bass Reflex System Resonance (Hz)	158
Crossover frequency (Hz)	3300
Rec. amp. power (8 ohm)(W)	30 -100
Sensitivity (@2.83V/1m) (dB)	82
Max. SPL (dB)	100
Placement	Wallmount
Height (cm)	18.4
Width (cm)	11.8
Depth (cm)	10.5
Vægt (kg/lb)	1.4/3.1

