

TYPE 4a HIGH FIDELITY LOUDSPEAKER

MANUAL

DALI 4a

Congratulations on your fine judgement. In its class the DALI 4a is one of the very finest loudspeakers on the market. To get the maximum performance from DALI 4a we recommend, that you read this manual before installing your new speakers.

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POSITIONING

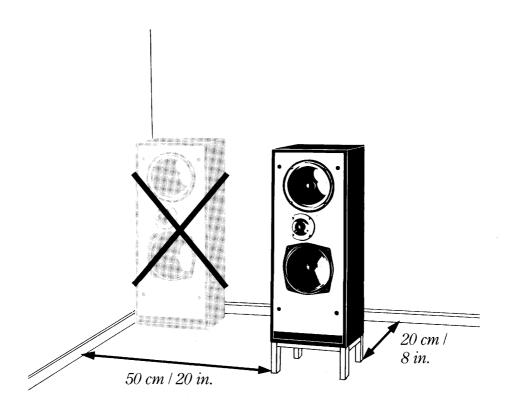
DISTANCE FROM WALLS

Dali 4a gives the best reproduction when placed on a speaker support of between 20 cm (8 in) and 40 cm (16 in). Hereafter the system should not be placed closer to the back wall than 20 cm (8 in), and the distance to the side walls should be at least 50 cm (20 in).

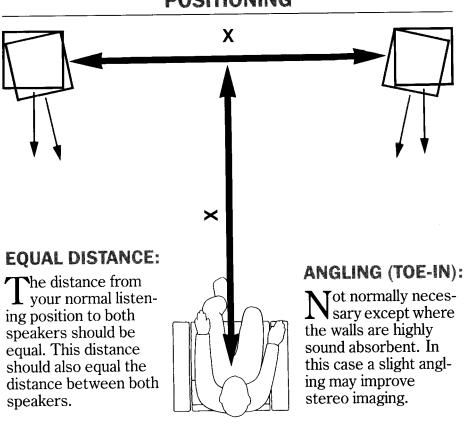
Dali 4a may also be hanged on the wall at a distance of between 30 cm (12 in) 110 cm (43 in) from the floor, measured from the bottom of the speaker.

DALI 4a should be placed vertically.

Corner location should be avoided.







SIGNAL SOURCES:

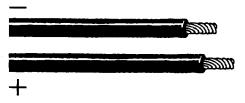
We recommend the use of the best speaker cables and, especially, a very good turntable or CD-player. Limited sound reproduction is often caused by misadjustment and/or weak signal equipment.

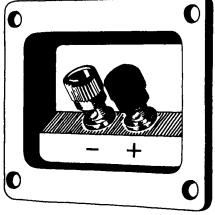
CONNECTION

The gold plated terminal on DALI 4a makes it possible to use banana plugs or heavy bared wires for amplifier connection.

IMPORTANT!

Turn off the amplifier when you are working at loudspeaker connection!

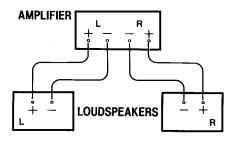




PHASING

To get a true stereo-reproduction it is necessary, that the loudspeakers are phased correctly. Connect always the amplifiers + to the loudspeakers +, and the amplifiers - to the loudspeakers -.

On most speaker cables one of the leads will have an indication making it easy to do this in the right way.



DAILY USE

The main point here is: enjoy the music! The only regular maintenance required is occassional cleaning of the surfaces:

WOOD:

Dust with cloth.

TEXTILE FRONT:

Brush with a clothes-brush or vacuum clean with a brush attachment.

DOCUMENTATION

The original Dali 4a was the most popular of the Dali range. The reason is a combination of two qualities – it sounded good – and it could play loud without strain! To make the design of Dali 4a significantly worthwhile, we required that it should retain these important qualities while possessing a performance standard approaching that of Dali 7, the sonic reference in the Dali range.

The driver compliment of Dali 4a consists of two 8" woofers and a 1" dome tweeter. The first woofer has a highly compliant suspension and a relatively high moving mass. This allows for an extremely well controlled diaphragm with a highly damped rubber suspension and long linear excursion. The second woofer has been designed with the same high quality diaphragm, but a totally difsuspension having ferent mechanical losses. By modifying the surface treatment, we were able to concentrate on precise midrange reproduction thus dividing the frequency spectrum, to an extent, between both drivers. This results in exceptionally flat frequency response and detailed reproduction. Although both drivers function together electrically, the response has been optimised mechanically allowing one driver to function deeper and the other to extend higher into the midrange. This system achieves even sound radiation especially in the vertical region.

The tweeter is a new design, a 1" dome with impregnated textile diaphragm. The massive low loss mag-

net provides remarkably detailed response free from colouration and strain. The benefits are audible at all levels, the new Dali 4a can still play loud!

In keeping with Dali design philosophy, the crossover has been kept as simple as possible. This allows us to use the very finest components, metallised polyester capacitors and inductors with a D.C. resistance of only .28 ohms. The network is a linear directivity design, assuring the best frequency linearity even at the widest off-axis position.

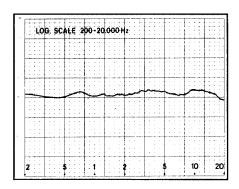
The cabinet of the Dali 4a is constructed of premium grade particle board with rigid bracing. Unwanted sound radiation from the cabinet has been reduced as much as possible, with special attention to resonances with a low Q factor. Listening tests have confirmed that these are the most irritating over extended listening.

The Dali 4a utilises damping material specially formulated to perform two specific tasks, to control standing waves within the cabinet and to affect a slight reduction of the mechanical Q. Optimum amounts of polyurethane foam and a special wool-like material are employed.

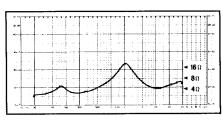
The gold-plated terminal plates accept both banana plugs and heavy duty bare wires.

The end product is an attractive speaker system whose sonic performance approaches that of Dali 7, only at a much lower price. We predict that the Dali 4a will hold its place as the most popular Dali speaker.

MEASUREMENTS



Frequency response on axis.



Input impedance

SPECIFICATIONS

Cabinet type Closed
Drivers
Woofers 2 x 8"
Tweeter 1", textile dome
Crossover Linear Directivity. 1st quality components
Crossover frequency 3 KHz, asymmetrical
Impedance
System resonance 60 Hz
Frequency response $\pm 3dB$ 45-20.000 Hz
Listening window ±2dB hor 90°
ver ±7°
Sensitivity
Recommended amplifier
power ratings 10 to 100 W/channel
Dimensions
Height
Width
Depth
Net weight 12 kg

Specifications are subject to change without notice in the course of product improvement.