



*Danish Audiophile Loudspeaker Industries*



# TOLERANCE

The DALI 103 is a room and amplifier-friendly loudspeaker, capable of performing at its best anywhere at any time. DALI 103 incorporates such essential DALI technology as our special low-loss surround, and our Linear Directivity crossover. The low-loss surround enables the unit to reproduce the tiny details that are of crucial importance, if the speaker is to visualise the realistic soundstage. The Linear Directivity crossover ensures linear frequency response even at extreme angles off-axis for the optimum speaker / room interface

## Drivers

The 8" woofer incorporates a special four-layer voice coil which has a 50% higher utilization ratio compared to conventional voice coils, offering the best possible use of the magnet system. The centercap is made of a transparent material to avoid compression behind it. The diaphragm is made of a coated heavy paper material with high damping. Our 1" tweeter incorporates a carefully designed magnet system and a ferrofluid cooled and damped voice coil, resulting

in high power handling, smooth frequency response and very low distortion. The front-plate is optimised to offer linear frequency response both on-axis and in the listening position 30 degrees off-axis, making the speaker system very tolerant with regard to positioning.

## The Crossover

To extract optimum performance from these fine drivers, the crossover incorporates only the finest components in the signal path such as SCR polypropylene capacitors and air-core inductors.

Linear impedance makes the DALI 103 an easy load for any amplifier. Research has shown that as impedance varies with frequency, amplifiers with low current capability tend to sound aggressive and edgy. The crossover in every DALI loudspeaker is optimized for an even, frequency-independent impedance curve which allows any amplifier to perform at its best.

## Enclosure

The influence of loudspeaker cabinets on musical performance has come under close scrutiny in recent years.

Extensive use of modal analysis in the DALI laboratories has documented the need for damping of resonances from enclosure surfaces. One important factor is the rigidity of the front baffle. For this reason the DALI 103 has the narrowest possible front and employs 19mm particleboard for maximum rigidity. The inevitable diffraction effects that do arise are effectively absorbed by a layer of felt. The absence of diffraction allows a significant improvement in the stability and focus of the stereo image.

For listeners who prefer to use the DALI 103 with the front grilles in place, the frames are carefully designed to minimize any diffraction. The gold-plated terminals of the DALI 103 accept banana plugs as well as heavy-gauge bare wire. With its wide ranging dynamic abilities, the DALI 103 is well suited to all styles of music and provides that sense of "being there" - so essential to musical enjoyment. With 92 dB sensitivity it offers plenty of "drive" and power even with modest amplifiers.

The DALI 103 will perform at its best in a bookshelf or mounted directly against the wall. Enjoy yourself.

## Specifications:

|                                 |             |                                |                |
|---------------------------------|-------------|--------------------------------|----------------|
| Cabinet type.....               | Bass reflex | Continuous power handling..... | 70 Watt        |
| Crossover frequency.....        | 2.4kHz      | Peak power handling.....       | 100 Watt       |
| Nominal impedance.....          | 4 ohms      | Sensitivity.....               | 92dB(2.83V/1m) |
| System resonance.....           | 39Hz        | Dimensions                     |                |
| Frequency response +/- 3dB..... | 58-18,000Hz | (HxWxD).....                   | 45x26x25cm     |
|                                 |             | Weight.....                    | 9 kgs/13 lbs   |



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Grynderupvejen 12 · DK-Nørager · Tel. +45 98 55 17 00 · Fax + 45 98 55 17 11