

## ZL 250 A-DSC AIArray Active 8-Channel Line Array Speaker with Adjustable Directivity

### Description

This active 8-channel line array supports DSP-controlled vertical directional characteristics and a long throw to ensure even acoustic irradiation across large rooms.

Featuring 32 long excursion full-range speakers with a neodymium motor and phase plug, the ZL 250 A-DSC AIArray has an exceptionally wide frequency range and is ideal for both speech and music reproduction.

The sound dispersion characteristics can be adapted to different rooms and situations using our DSC Control software. We can also preconfigure settings on request.

We recommend using SUB 40 A and SUB 80 A subwoofers to enhance the low frequency range.



### Key Features

- Active 8-channel line array with DSP
- Adjustable vertical directivity
- Very linear frequency range
- 32 × 2.5" full-range speakers with phase plug
- 8 × 100 watts amplifier power
- Modular aluminium cabinet

### Fields of Application

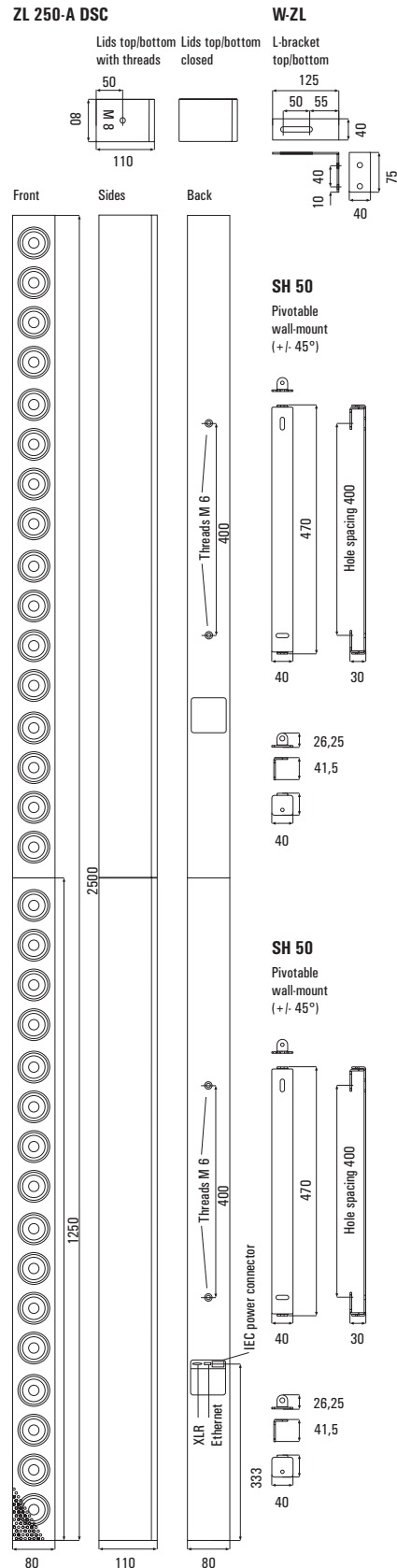
- Churches
- Concert halls, theatres
- Exhibitions, trade fairs
- Gastronomy
- Large rooms, halls
- Museums



The vertical dispersion characteristics of the line arrays can be set using our new **LB AUDIO CONTROL Software**.

# ZL 250 A-DSC AIArray Active 8-Channel Line Array Speaker with Adjustable Directivity

## Dimensions



## Technical Data

Principle	Active 8-Channel Line Array Speaker with adjustable vertical directivity
Components	32 × 2.5" long excursion full-range speakers with phase plug and neodymium magnet system
Frequency range	60 Hz – 24 kHz
Amplifier Power	8 × 100 watts
Maximum SPL	114 dB @10m
DSP	24 Bit, 48 kHz
Software	lb DSC Control for PC and Mac
Nominal dispersion (H×V)	Horizontal 120°, vertical adjustable via software
Dimensions (W×H×D)	80 × 2500 × 110 mm
Weight	13.5 kg
Cabinet	Aluminium, powder coated, front metal grille, lids closed or optionally threaded inserts M 8 on top/at bottom, (Please specify bracket type when placing your order)
Connectors	XLR Input, RJ 45 Ethernet, IEC power connector
Power supply	90 – 240 VAC
Warranty	5 years

Model	Order-No.	Version
ZL 250 A-DSC AIArray White	1010-0001	RAL 9016
ZL 250 A-DSC AIArray Black	1010-0002	RAL 9005

Other length and colours on request

Accessories	Order-No.	Version
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W-ZL White	7110-0005	L-bracket (pair)
W-ZL Black	7110-0006	

SH 50 White	7110-0003	Wall mount
SH 50 black	7110-0004	(+/- 45°)

### LB AUDIO CONTROL Software

Browser-based Software for our new DSPs

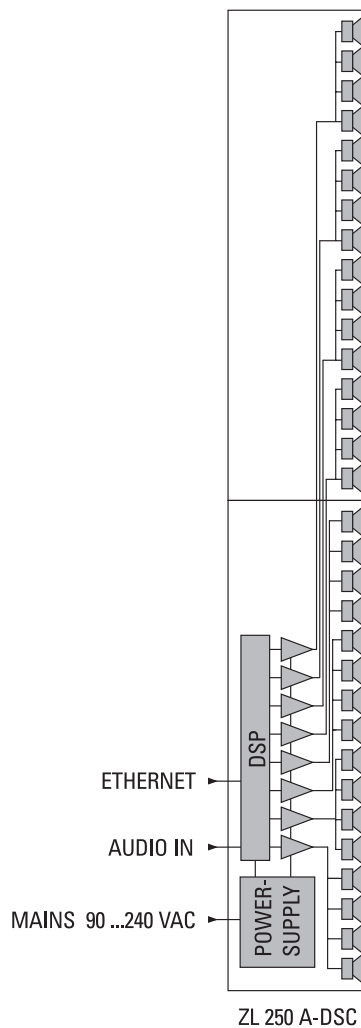
Interface: Ethernet – Operating system: Windows

Download [www.lb-lautsprecher.de/de/download-software](http://www.lb-lautsprecher.de/de/download-software)

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## Active 8-Channel Line Array Speaker with Adjustable Directivity

### Circuit diagram with controller and amplifier



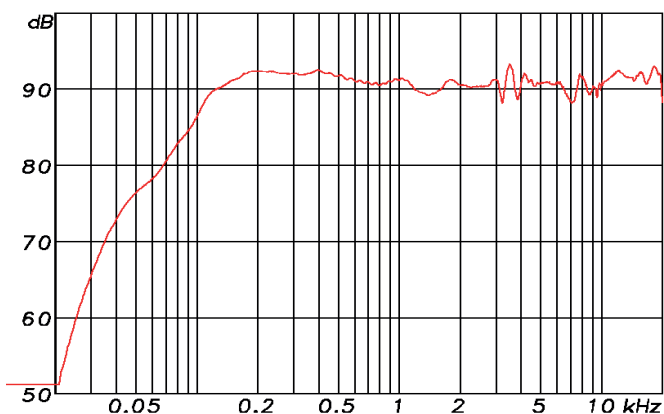
W-ZL  
L-bracket



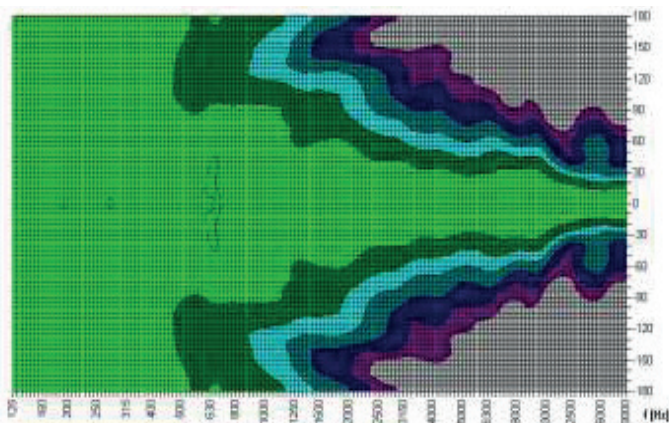
Front without grille

### Measuring Diagrams

ZL 250 A-DSC AIArray Sens. @ 2, 83V/1m, d=4m

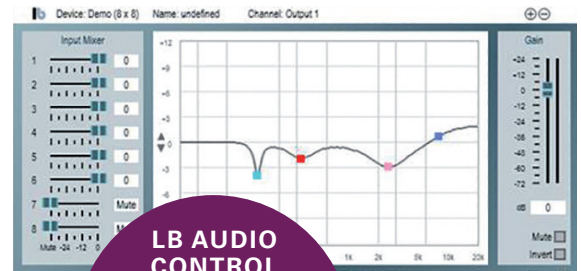
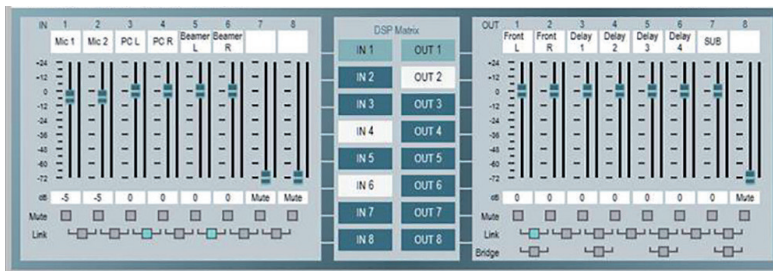


ZL 250 A-DSC AIArray vert. Direkivity Plot



# ZL 250 A-DSC AIArray Active 8-Channel Line Array Speaker with Adjustable Directivity

## LB AUDIO CONTROL



**LB AUDIO CONTROL**  
 Browser-based Software for our new DSPs  
 Interface: Ethernet  
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The vertical dispersion characteristics of the line arrays can be set using our new **LB AUDIO CONTROL Software**.  
 Interface: Ethernet – Operating system: Windows  
 Download from our website: [www.lb-lautsprecher.de/en/Download-Software](http://www.lb-lautsprecher.de/en/Download-Software)

## Calculation from delay times

**Lautsprecher: ZL 250**      **Berechnung über: Hörbereich**

**Tragen Sie hier das gewünschte Abstrahlverhalten ein (Hörbereich):**

<b>Gruppe 1</b>	<b>Unterkannte Lautsprecher y(LS):</b> 1,50 m	<b>Unterkannte Hörbereich (y1):</b> 1,00 m	<b>Start Hörbereich (x1):</b> 4,0 m
<b>Gruppe 2</b>		<b>Oberkannte Hörbereich (y2):</b> 1,80 m	<b>Ende Hörbereich (x2):</b> 30,0 m

**Für das gewünschte Abstrahlverhalten sind folgende Delaywerte in der DSC-Control Software einzutragen:**

	Delay in ms:	Delay in mm:
<b>Gruppe 4</b>	Out 1: 0,0000 ms	0,00 mm
<b>Gruppe 5</b>	Out 2: 0,0704 ms	23,94 mm
	Out 3: 0,1484 ms	50,45 mm
	Out 4: 0,2339 ms	79,52 mm
<b>Gruppe 6</b>	Out 5: 0,3378 ms	114,86 mm
	Out 6: 0,4392 ms	149,34 mm
<b>Gruppe 7</b>	Out 7: 0,5481 ms	186,37 mm
	Out 8: 0,6645 ms	225,93 mm
<b>Gruppe 8</b>		