



DL-P 10-165/T SWF-EN54

- seawater proof
- flat design
- UV-resistant

EN54

CE
20

EN 54-24:2008
Ref. Nr.: 04-19
ID-Code: SAA-LS11
1438-CPR-0718

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68307 Mannheim, Germany

CE-Symbol gemäß Richtlinie 93/68EWG

The DL-P 10-165/T SWF-EN54 is ideally suited for indoor and outdoor use on ships. Thanks to its robust construction and high-quality materials, the ceiling speaker offers permanent protection against seawater and UV rays.

The 10W DL-P is equipped with a 165mm dual cone full-range speaker made of high-quality polypropylene for powerful sound reinforcement. The flat design ABS plastic housing offers a seawater-resistant cover for the terminal. Lateral ventilation slots provide optimal frequency response.

Thanks to the PG9 cable entry on the side, a space-saving connection is effortlessly possible.

The spring snap system reduces the installation time, and protective caps at the spring ends reduce possible vibrations to a minimum. Besides the classical maritime application, the DL-P with EN54-24 certification is also suited for voice alarm installations in swimming pools and similar wet areas.

Thanks to its special protective properties, this loudspeaker is also suitable for clean room applications according to ISO 14644-1.

This speaker is suitable for a ceiling strength of about 1-45 mm. Our specification is primarily related to solid ceilings, for ceilings with soft materials higher ceiling thicknesses could be necessary. In addition, stronger cables and other fittings may also result in changes in the appropriate setup. Regarding the variety of materials and manufacturers, we recommend building a sample of the speaker to match the requirements accurately.

Product	DL-P 10-165/T SWF-EN54
Artikel Nr.	20194372

Acoustics

Power	10/6/3/1,5 W
Impedance (100V)	1000/1667/3333/6667 ohm
Speaker ø	165 mm
Frequency Range	50 - 24.000 Hz
Frequency Response	42 - 25.000 Hz
SPL Pmax/4m, peak	92,9 dB
SPL IEC268-5, 1W/1m	88,8 dB
SPL IEC268-5, Pmax/1m	98,2 dB
Sensitivity EN54-24, 1W/4m	78,9 dB
Dispersion -6dB, 500Hz	165°
Dispersion -6dB, 1KHz	165°
Dispersion -6dB, 2KHz	145°
Dispersion -6dB, 4KHz	65°

Connections and Housing

Connector	5-pin terminal
Terminal Diameter	3,2 mm
Maximum Cable Passage	8 mm²
Max. cable cross section loop	2x2 mm²
Temperature Range	-25 / +70 C°
Type A/B	B
Dimensions	220x82 mm
Ceiling Cut-out	175 mm
Weight (net)	1,20 kg
Housing	ABS
Colour	RAL 9016
Mounting	Quick fit mounting
IP Rating	IP54

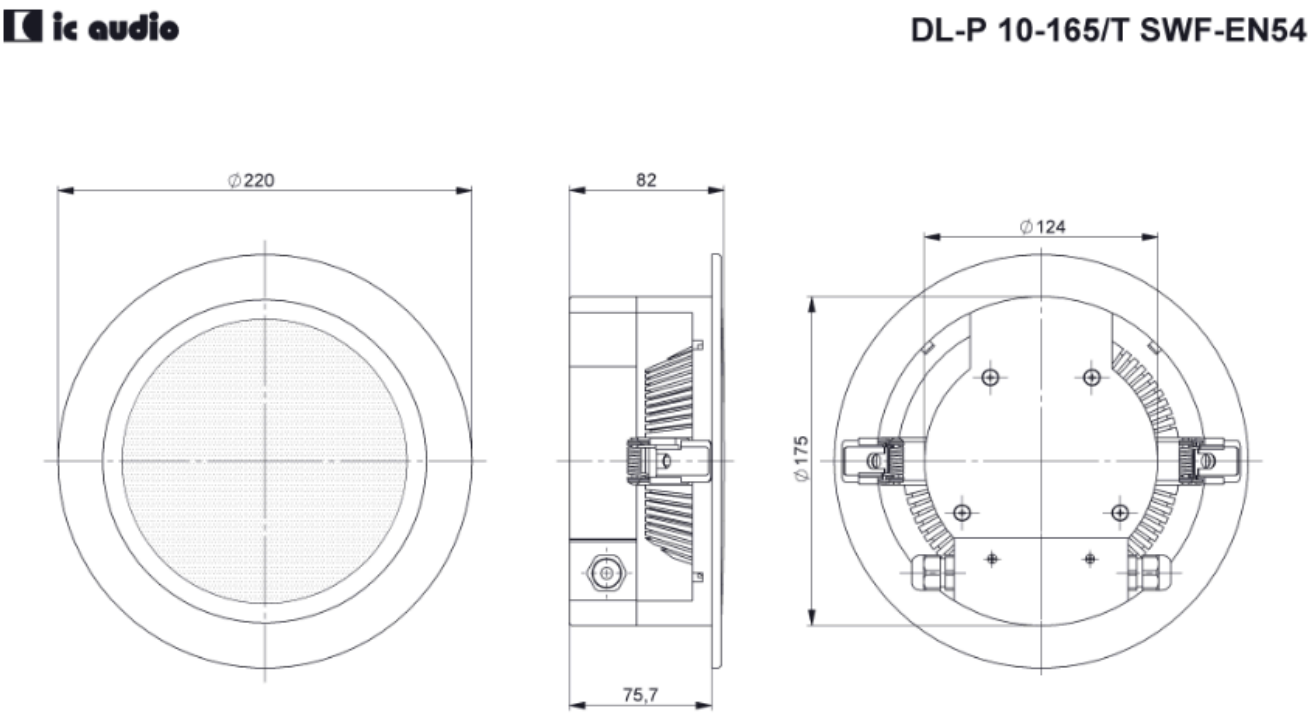
Certification

Ref. Nr.	04-19
ID-Code	SAA-LS11
Certificate Number	1438-CPR-0718

Product Attributes

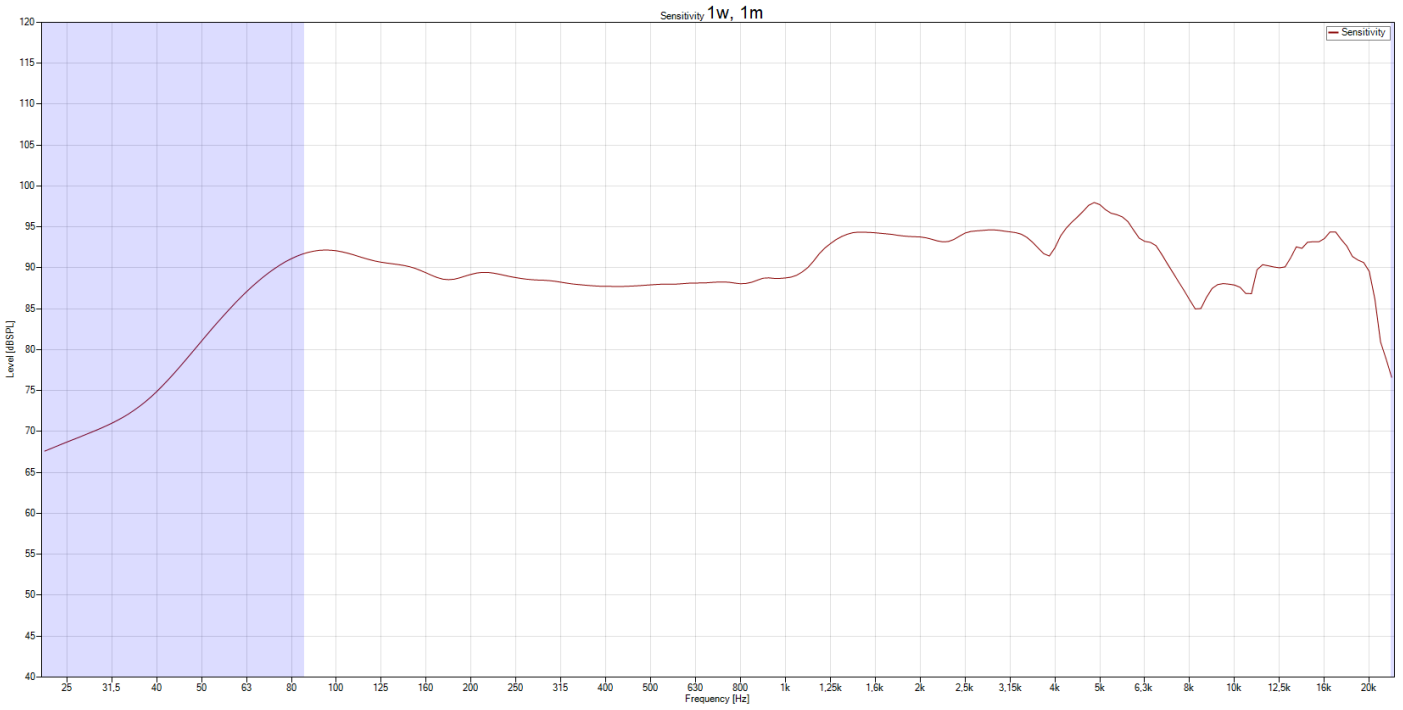


Technical Drawing

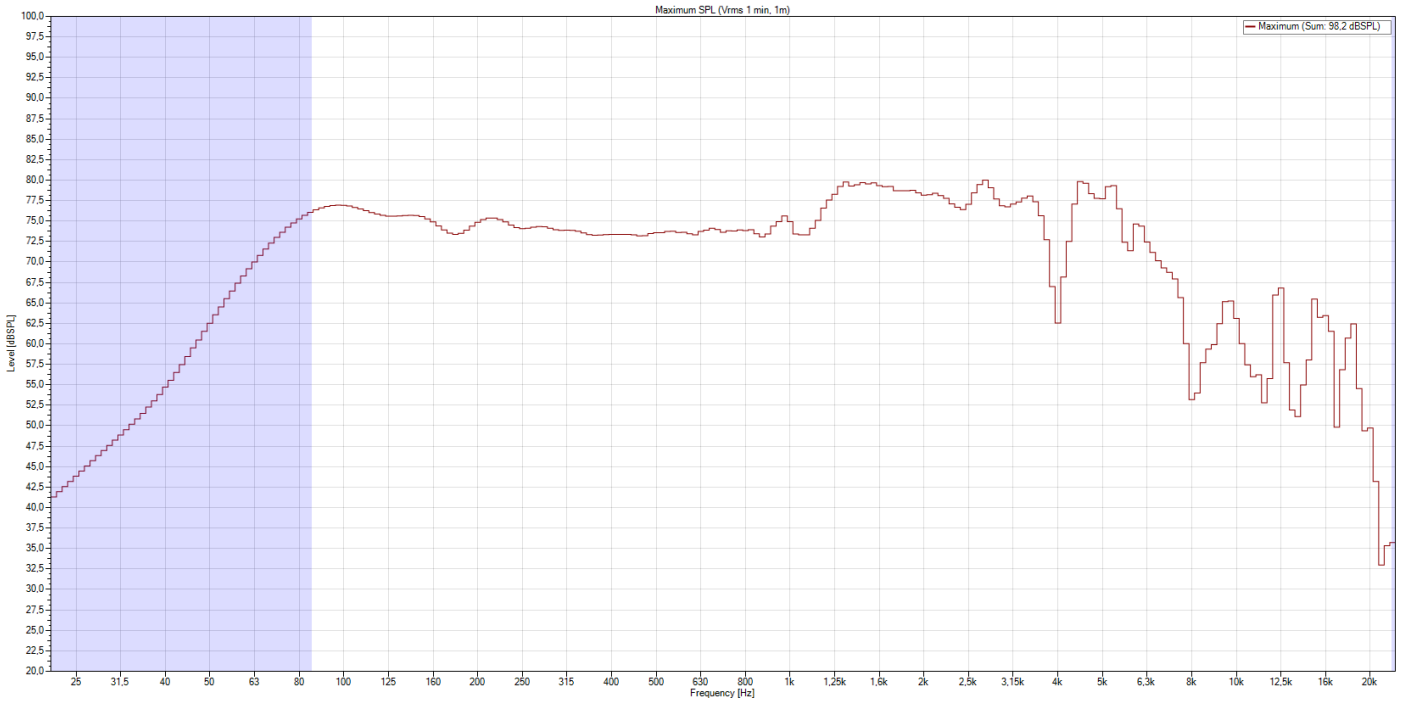


Frequency Response Diagram

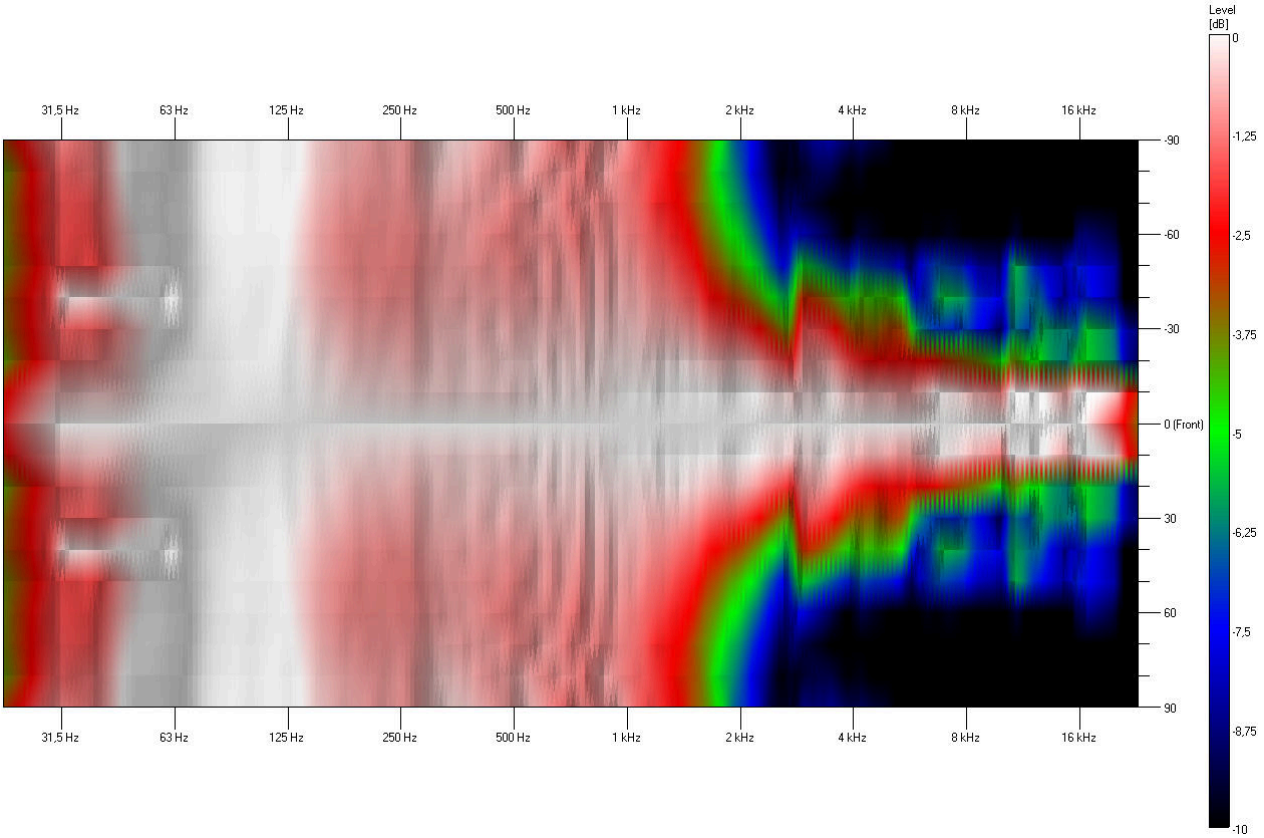
Sensitivity



SPL Max

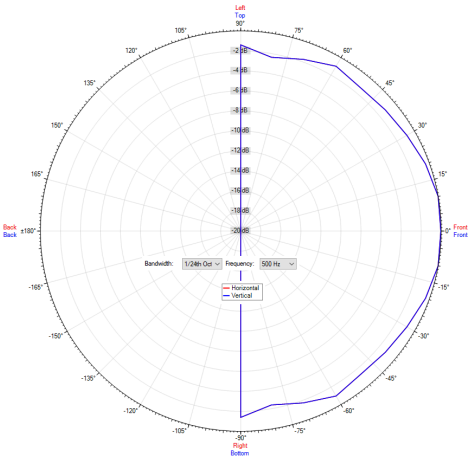


Isobar

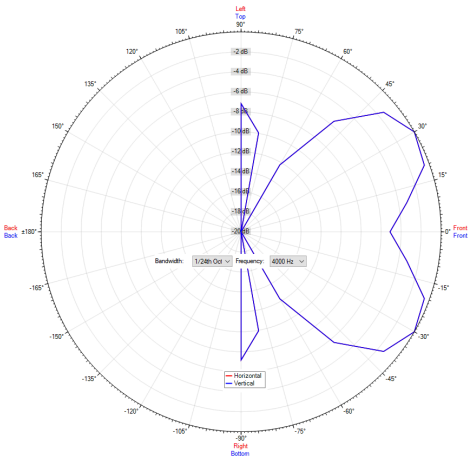

31,5 Hz
63 Hz
125 Hz
250 Hz
500 Hz
1 kHz
2 kHz
4 kHz
8 kHz
16 kHz
-90
-60
-30
0 (Front)
30
60
90
Level [dB]
0
-1,25
-2,5
-3,75
-5
-6,25
-7,5
-8,75
-10

Polar Diagram

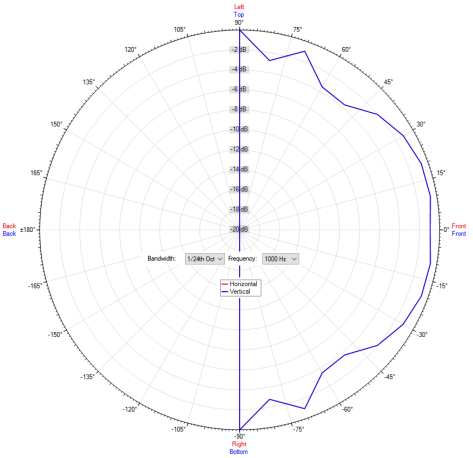
Polar Diagram 500Hz



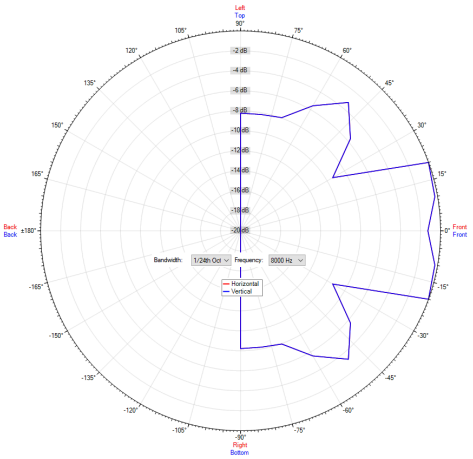
Polar Diagram 4000Hz



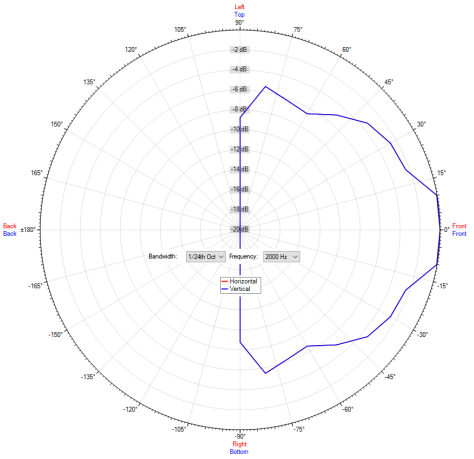
Polar Diagram 1000Hz



Polar Diagram 8000Hz



Polar Diagram 2000Hz



ic audio loudspeakers are tested and classified according to the IEC standard 60529 (degree of protection by enclosure) against the penetration of foreign objects and moisture. The classification is conforming to standards through characterization with a fixed code. This code consists of the letters IP (International Protection) followed by two digits. The first digit indicates the degree of protection against dust and the second digit the degree of protection against water. Please note that the testing of the products has been carried out in laboratory conditions which are not always 100% comparable with the conditions of different installation environments. This protection can be reduced due to normal wear and tear depending on the installation environment.

RoHS compliant (2011/65/EU)

The IP rating specified is based on ic audio test results, not on CNBOP-PIB test results. Certification only verifies the minimum requirements for EN54-24 compliance.

Artikel Nr. : 20194372
Packing Unit: 12

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