

The 21S-SUB loudspeaker



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The 21S-SUB is a compact high performance subwoofer for use with d&b xS-Series loudspeakers. The cabinet houses a long excursion 21" neodymium driver in a bass-reflex design. Its frequency response extends from 35 Hz to 105 Hz in standard mode and from 33 Hz to 85 Hz in INFRA mode.

The large, specially shaped reflex port enables the subwoofer to achieve high sound pressure levels with minimal power compression and breathing effects.

The enclosure is constructed from marine plywood with an impact resistant black paint finish. The front of the cabinet is protected by a rigid metal grill backed by an acoustically transparent foam and is Ball Impact Resistant according to DIN 18032-3.

Four rubber feet are provided which can be attached to either, the top or side panel by the user to prevent cabinet movement and protect the corresponding panel against scratching.

d&b amplifiers

The d&b audiotechnik loudspeaker range is designed exclusively for operation with d&b amplifiers. These provide power as well as comprehensive control and protection functions tailored to achieve the performance, reliability and longevity associated with the d&b system approach.

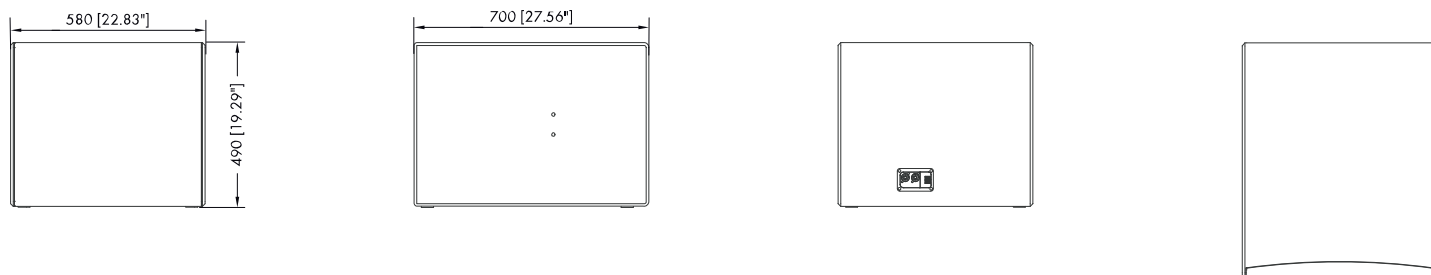
System data

Frequency response (–5 dB standard)	35 Hz - 105 Hz
Frequency response (–5 dB INFRA mode)	33 Hz - 85 Hz
Max. sound pressure (1 m, free field)	
with 30D/D20	134 dB
with 40D/D40/D80	135 dB
..... (SPLmax peak, pink noise test signal with crest factor of 4)	

Loudspeaker data

Nominal impedance	4 ohms
Power handling capacity (RMS/peak 10 ms)	650/2600 W
Components	1 x 21" driver
Connections	1 x NL4 M
.....	1 x screw terminal (ST - up to 4 mm ² /AWG 11)
.....	WR option: Faston type connector (2 x 6.3 mm)
Pin assignment	NL4 M: 2+/2–
.....	WR option: Brown: (+) / Blue: (–)
Weight	54 kg (119 lb)

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21S-SUB cabinet dimensions in mm [inch]

Features and benefits

- Installation specific high performance subwoofer
- Single 21" driver built into a bass-reflex design
- Compact footprint
- INFRA mode extends the operating frequency response even further to supplement other d&b subwoofers
- Can be ground stacked horizontally or vertically, or flown either individually or in a cluster of two cabinets
- Unobtrusive cabinet design ensures visual integration within any permanent installation

Applications

- Music and live program reinforcement for permanent installations
- Live performance venues
- Night clubs
- Houses of Worship
- Multipurpose suites

Architectural specifications

The loudspeaker shall consist of a single 21" long excursion low frequency neodymium driver in bass-reflex design.

The loudspeaker shall only be operated by a dedicated, compatible controller amplifier.

The cabinet enclosure shall be made from marine plywood with an impact resistant black paint finish.

Special colours according to RAL table and a weather resistant option shall be available upon request.

The drivers shall be protected by a rigid metal grill backed by an acoustically transparent foam.

Four rubber feet shall be incorporated in the bottom panel to prevent the cabinet from movement and four corresponding recesses in the top panel shall be incorporated to prevent movement of stacked cabinets.

The cabinet shall incorporate two M10 threaded inserts on the top, bottom and side panels for the secure attachment of dedicated mounting brackets.

The connection panel on the back shall be recessed and fitted with one speakon NL4 M socket and a two pole screw terminal block. A cover plate for protection of the connection panel shall be included. The loudspeaker shall only be operated by a dedicated, compatible controller amplifier.

The power handling capacity shall be 650 W RMS and 2600 W peak (10 ms). The frequency response (-5 dB) measured on axis shall be 35 Hz to 105 Hz with a maximum sound pressure of at least 135 dB.

The dimensions (W x H x D) shall not exceed 580 x 1100 x 526 mm (22.8" x 43.3" x 20.7") and shall weigh no more than 54 kg (119 lb).

The loudspeaker shall be the 21S-SUB by:
d&b audiotechnik GmbH & Co. KG.