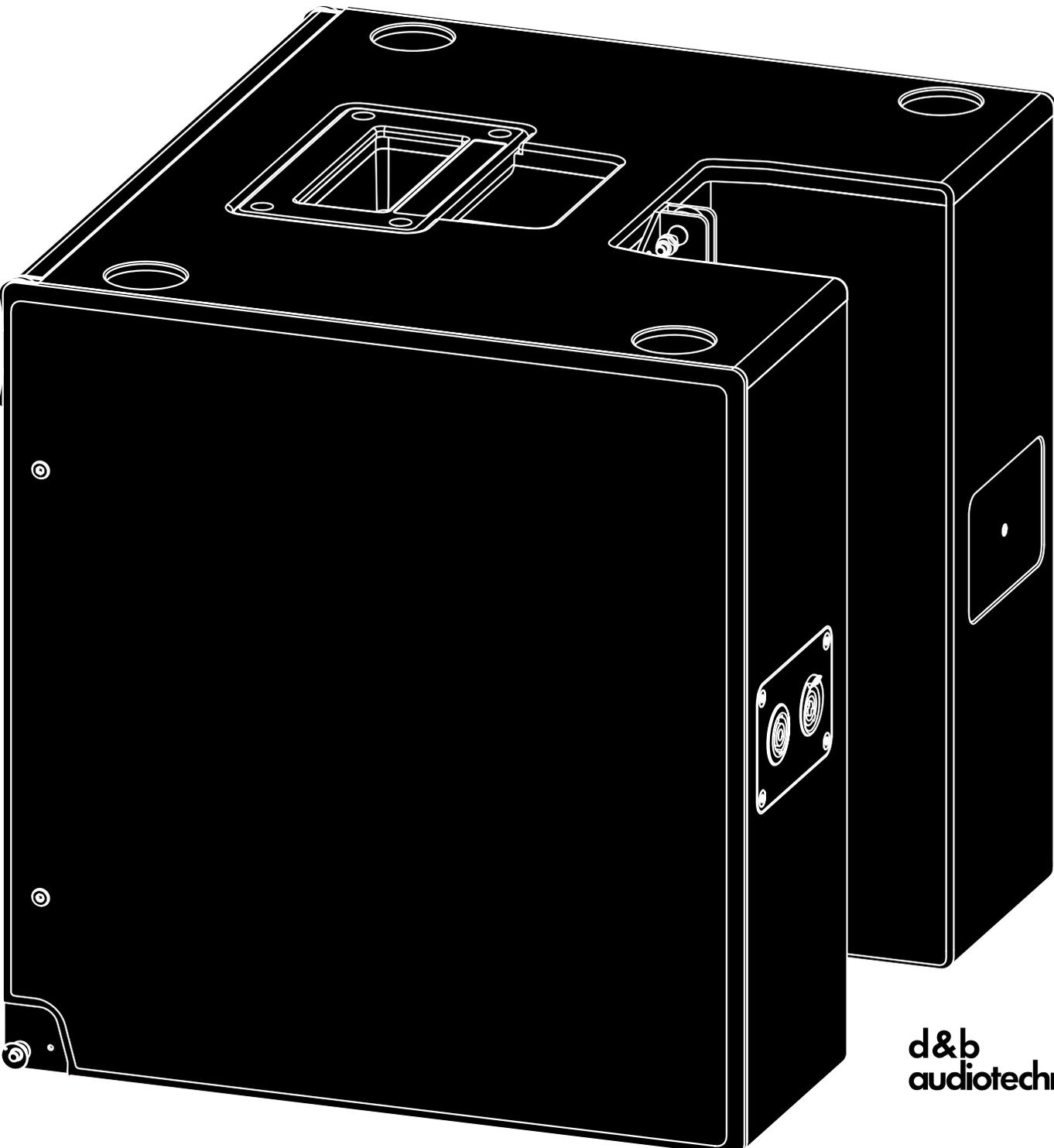


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T-SUB Manual 1.2 en



General information

T-SUB Manual

Version: 1.2 en, 06/2023, D2601.EN .01

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Potential risk of personal injury

Never stand in the immediate vicinity of loudspeakers driven at a high level. Professional loudspeaker systems are capable of causing a sound pressure level detrimental to human health. Seemingly non-critical sound levels (from approx. 95 dB SPL) can cause hearing damage if people are exposed to it over a long period.

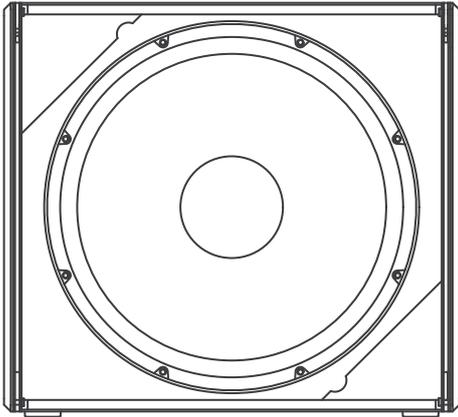
In order to prevent accidents when deploying loudspeakers on the ground or when flown, please take note of the following:

- When setting up the loudspeakers or loudspeaker stands, make sure they are standing on a firm surface. If you place several systems on top of one another, use straps to secure them against movement.
- Only use accessories which have been tested and approved by d&b for assembly and mobile deployment. Pay attention to the correct application and maximum load capacity of the accessories as detailed in our specific "Mounting instructions" or in our "Flying system and Rigging manuals".
- Ensure that all additional hardware, fixings and fasteners used for installation or mobile deployment are of an appropriate size and load safety factor. Pay attention to the manufacturers' instructions and to the relevant safety guidelines.
- Regularly check the loudspeaker housings and accessories for visible signs of wear and tear, and replace them when necessary.
- Regularly check all load bearing bolts in the mounting devices.

Potential risk of material damage

Loudspeakers produce a static magnetic field even if they are not connected or are not in use. Therefore make sure when erecting and transporting loudspeakers that they are nowhere near equipment and objects which may be impaired or damaged by an external magnetic field. Generally speaking, a distance of 0.5 m (1.5 ft) from magnetic data carriers (floppy disks, audio and video tapes, bank cards, etc.) is sufficient; a distance of more than 1 m (3 ft) may be necessary with computer and video monitors.

2 T-SUB loudspeaker



2.1 Product description

The T-SUB is the subwoofer for the T-Series. It can be used to supplement T10 cabinets in various combinations, either flown or ground stacked. The T-SUB cabinet is an actively driven bass-reflex design housing a long excursion 15" driver, its frequency response extending from 47 Hz to 140 Hz.

The cabinet is constructed from marine plywood and has an impact and weather protected PCP (Polyurea Cabinet Protection) finish. The front of the cabinet is protected by a rigid metal grill backed by an acoustically transparent foam. The cabinet top panel incorporates a handle.

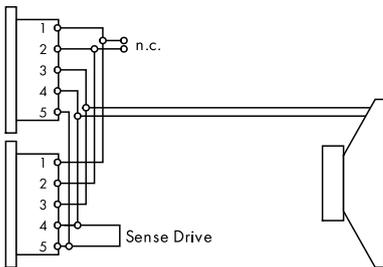
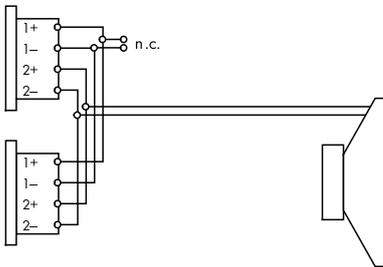
T-Series rigging components and arrays

Cabinets are mechanically connected using the rigging strands on both sides of the cabinet front and a central strand at the rear of the cabinet. All necessary rigging components are mounted to the cabinet and are folded or slide out when needed.

A detailed description of the T-Series rigging components is given in the T-Series Rigging manual which is provided with the Z5370 T Flying frame.

A detailed description of planning and designing T arrays is given in the technical information "TI 385 d&b Line array design, d&b ArrayCalc" which is also provided with the T Flying frame.

The d&b ArrayCalc simulation software can be downloaded from the d&b website at www.dbaudio.com.



NLT4 F/M, NL4 M and EP5 connector wiring

2.2 Connections

The cabinet is fitted with NLT4 F/M connectors. All four pins of both connectors are wired in parallel. It uses the pin assignments 2+/2-. Pins 1+/1- are designated to TOP cabinets. Using one as the input, the second connector allows for direct connection to a second cabinet.

The cabinet can be supplied with NL4 M or EP5 connectors as an option.

Pin equivalents of the connector options are listed in the table below.

NLT4 F/M NL4 M	1+	1-	2+	2-	n.a.
EP5	1	2	3	4	5 (SenseDrive)

d&b LoadMatch

With the d&b four channel amplifier platform, the LoadMatch function enables the amplifier to electrically compensate for the properties of the loudspeaker cable used without the need for an additional sense wire. For applicable loudspeakers, LoadMatch is therefore independent of the connector type used.

d&b SenseDrive

The SenseDrive feature within D12 amplifiers enables electrical compensation for the properties of the loudspeaker cable used. SenseDrive requires an additional sense wire. SenseDrive is therefore only available with EP5 connectors and 5-wire cabling for applicable loudspeakers.

Note: When the D12 is operated in "Mix TOP/SUB mode", the SenseDrive function is only available at the output B connector.

2.3 Operation

NOTICE!

Only operate d&b loudspeakers with a correctly configured d&b amplifier, otherwise there is a risk of damaging the loudspeaker components.

Applicable d&b amplifiers:

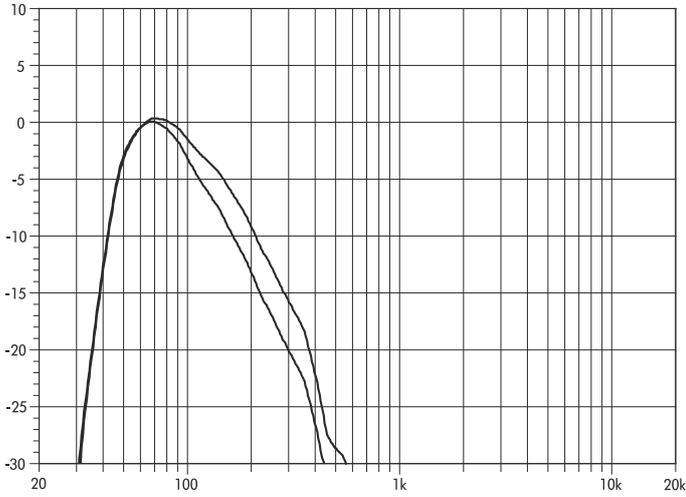
D80|D40|D12|D20|D6.

Application	Setup	Cabinets per channel
T-SUB	T-SUB	2

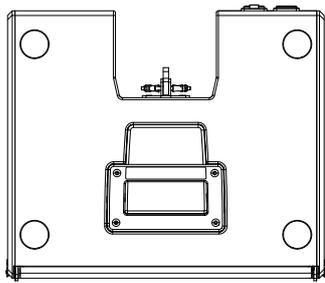
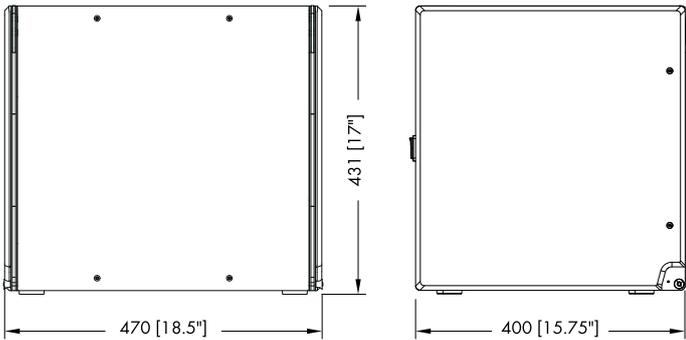
Within applicable d&b amplifiers, the controller setup is available in Dual Channel or Mix TOP/SUB mode.

2.3.1 Controller settings

For acoustic adjustment the 100 Hz mode can be selected.



T-SUB frequency response, standard and 100 Hz modes



T-SUB cabinet dimensions in mm [inch]

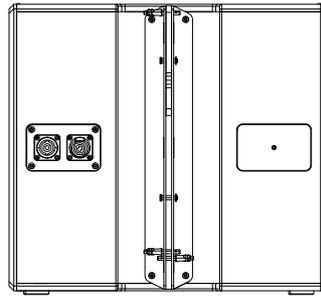
2.4 Technical specifications

T-SUB system data

Frequency response (-5 dB standard)	47 Hz - 140 Hz
Frequency response (-5 dB 100 Hz mode)	47 Hz - 100 Hz
Max. sound pressure (1 m, free field)
D6	127 dB
D80/D40/D20/D12	130 dB
..... (SPLmax peak, pink noise test signal with crest factor of 4)	

T-SUB loudspeaker

Nominal impedance	8 ohms
Power handling capacity (RMS/peak 10 ms)	300/1600 W
Components	15" driver with neodymium magnet
Connections	2 x NLT4 F/M
.....	optional EP5
Pin assignment	NLT4 F/M: 2+ / 2-
.....	EP5: 3+ / 4-
Weight	17 kg (37 lb)





3.1 Conformity of loudspeakers

This declaration applies to:

d&b Z0560 T-SUB loudspeaker

by d&b audiotechnik GmbH & Co. KG.

All product variants are included, provided they correspond to the original technical version and have not been subject to any later design or electromechanical modifications.

We herewith declare that said products are in conformity with the provisions of the respective directives including all applicable amendments.

Detailed and applicable declarations are available on request and can be ordered from d&b or downloaded from the d&b website at www.dbaudio.com.



3.2 WEEE Declaration (Disposal)

Electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime.

Please dispose of this product according to the respective national regulations or contractual agreements. If there are any further questions concerning the disposal of this product, please contact d&b audiotechnik.

WEEE-Reg.-Nr. DE: 13421928

