

C6-MON

Data Sheet

Safety precautions

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 loading capacity of the accessories as specified in our "Rigging accessories" manual.

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.

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.

WARNING!

CAUTION!

General Information

C6-MON Data Sheet

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The information presented in this document is, to the best of our knowledge, correct. We will however not be held responsible for the consequences of any errors or omissions.

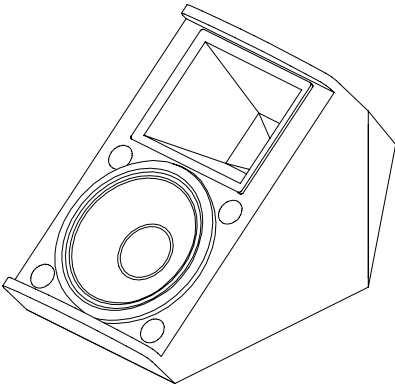
Technical specifications, weights and dimensions should always be confirmed with d&b audiotechnik AG prior to inclusion in any additional documentation.

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C6-MON



The C6-MON is a full range, two way bass-reflex enclosure fitted with a 12" LF driver passively connected to a 2" HF compression driver coupled to a 60° x 40° CD horn.

A wedge shaped stage monitor with a 40° angled speaker baffle, the C6-MON is constructed from marine plywood and has an impact resistant paint finish. The front of the loudspeaker cabinet is fitted with a rigid metal grill covered with a replaceable acoustically transparent foam. Mounted on the rear panel are two Speakon NL4 or EP-5 connectors wired in parallel. The top plate has an integral handle and four M10 threaded inserts for attaching installation hardware.

With a frequency response extending from 65 Hz to 17 kHz, the C6-MON can generate a 133 dB peak sound pressure level at 1m. This high output capability coupled with a high gain before feedback ratio is a consequence of a linear frequency response and controlled dispersion. The result is in an extremely efficient stage monitor for vocal work. Faceted cabinet side panels simplify the assembly of a twin C6-MON array covering a 100° horizontal angle.

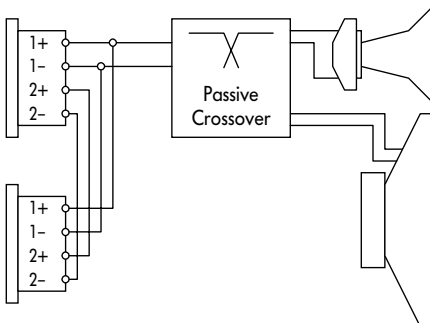
The top panel has a combined handle and mounting plate similar to that of the C6 allowing the use of the same rigging accessories. Using the Z5023 Flying bracket 02 and a high stand it is possible to use C6-MON in a front of house system.

The C6-MON has the same electroacoustic performance as the C6 and uses the same C6 controller module. Please note, that for front of house systems, C6-MON cabinets are not as straightforward to array as the C6 version of the cabinet.

C6-MON can also be supplemented with the d&b active subwoofer systems E18-SUB, C4-SUB or C7-SUB.

Only operate C6-MON loudspeakers with a d&b P1200A mainframe fitted with C6 controller modules, otherwise there is a risk of damaging the loudspeaker components.

CAUTION!



Connector wiring

EP-5	1	2	3	4	5
NL4	1+	1-	2+	2-	n.c.

Speakon- NL4 and EP-5 pin assignments

Connections

The C6-MON cabinet is fitted with a pair of Speakon-NL4 connectors. All four pins of both connectors are wired in parallel. The C6-MON uses the pin assignments 1+/1-. Pins 2+/2- are designated to C and E-Series active subwoofers. Using one connector as the input, the second connector allows for direct connection to additional loudspeakers.

The C6-MON can be supplied with EP-5 output connectors as an option. Pin equivalents of Speakon-NL4 and EP-5 connectors are listed in the table below.

Up to two C6-MON can be driven by each P1200A power amplifier channel. Fitting one C6-CO and one subwoofer controller module allows a single mainframe to drive two C6-MON and two active subwoofer cabinets (E18-SUB, C4-SUB or C7-SUB). All cabinets can be linked together locally and fed by a single four-wire cable from either mainframe output connector.

C6 controller module switches

Standard setting

If the CUT switch and MON switch are not selected the module is configured for use with C6 loudspeakers used as a stand alone system without subwoofers.

CUT switch & indicator

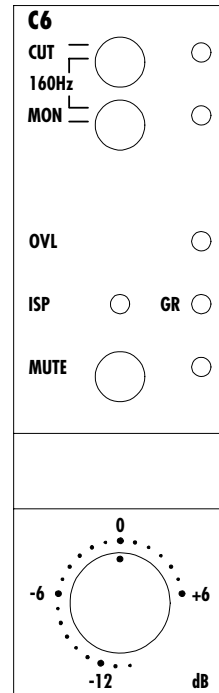
Set to CUT, a high pass filter with a 110 Hz cut-off frequency is inserted in the controller signal path. The yellow CUT LED illuminates. The C6 system is now configured for use with d&b C-Series active subwoofers.

MON switch & indicator

If the MON switch is selected the yellow MON LED illuminates and the low frequency level is reduced by 3 dB. This particularly applies to the C6-MON stage monitor, as this setting reduces the low frequency energy gained from the coupling effect of floor placement.

160 Hz setting (CUT & MON switches both selected)

If the 160 Hz mode is selected, a high pass filter is inserted in the controller signal path. The crossover frequency of 160 Hz is higher than in CUT mode and thus increases the available headroom in the C6 system. The 160 Hz mode can be selected when the system is operated with d&b active subwoofers C4-SUB, C7-SUB or E18-SUB (also in 160 Hz mode, see manual section E18-SUB). This configuration is particularly useful when C6 loudspeakers are stacked directly on top of the subwoofer system.



Controls on C6 controller module

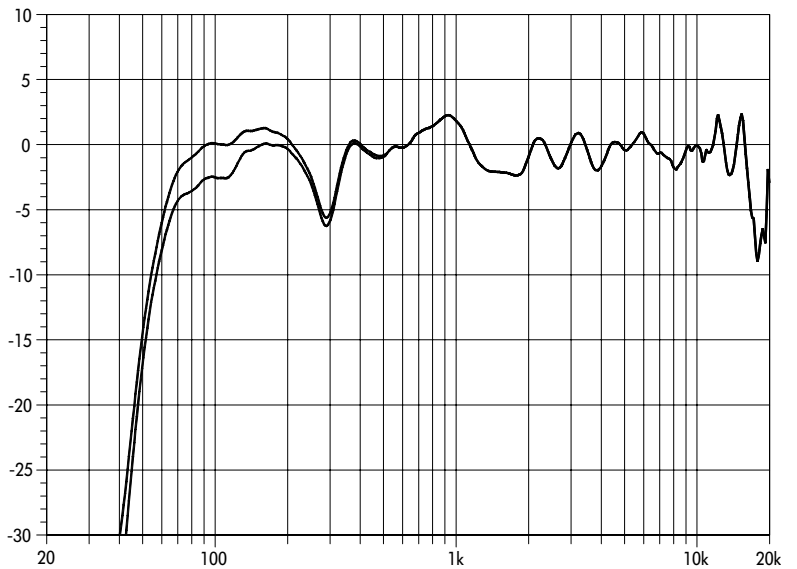
Technical specifications

C6-MON system data

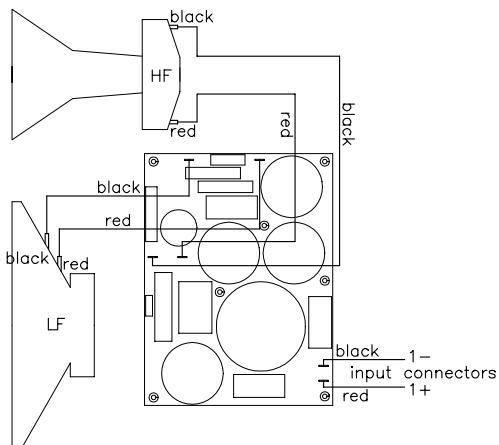
Frequency response (-5 dB).....	65 Hz ... 17 kHz
Max. sound pressure (1 m, free field).....	133 dB (SPLmax peak, pink noise test signal with crest factor of 4)
Input level (SPLmax).....	+16 dBu
Input level (100 dB-SPL / 1 m).....	-14 dBu
Polarity to controller INPUT (XLR pin 2: + / 3: -).....	LF: + / HF: -

C6-MON stage monitor

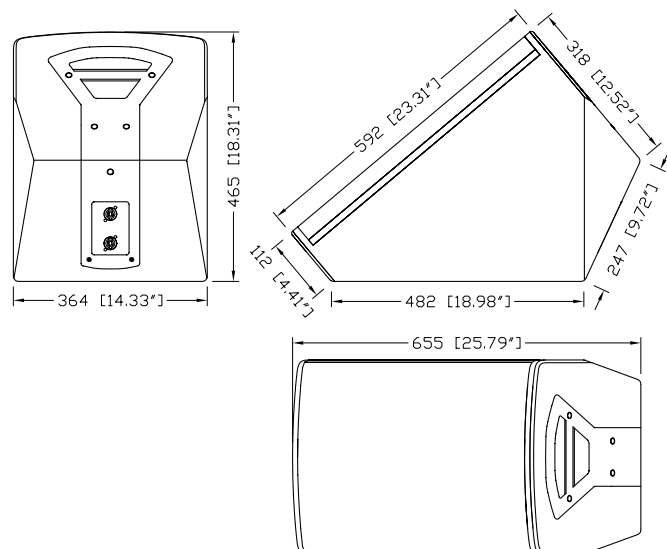
Nominal impedance.....	8 ohms
Power handling capacity (RMS / peak 10 ms).....	200 / 800 W
Nominal dispersion angle (hor. x vert.).....	60° x 40°
Connections.....	2 x Speakon-NL4 (optional 2 x EP-5)
Pin assignments.....	1+ / 1- (EP-5: 1 / 2)
Weight.....	30 kg (66 lb)



C6-MON frequency response, standard and MON switch settings



C6-MON wiring diagram



C6-MON cabinet dimensions in mm [inch]

