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## *Instructions and general guidance for BenkCube products, as at 04/2014*

Dear Customer, Dear Business Partners,

Thank you for choosing the BENKCUBE sound system. Please observe the following instructions to facilitate the correct use of our products and achieve the best possible audio quality, performance and safety.

### **1.. General**

BENKCUBE loudspeakers are suitable for all sound reinforcement applications requiring non-directional, uniform and universal sound distribution. Semi-spherical sound distribution is included in the appropriate application. BENKCUBE loudspeakers are divided into the following groups: satellites, subwoofers and full-range systems. All of these can be combined with each other and also with products from other manufacturers. All BENKCUBE products comply with professional standards in terms of performance and features.

#### **1.1. Precautions**

When using BENKCUBE loudspeakers, the statutory provisions relating to safety and noise protection must be observed and followed. Only approved and standard materials should be used for event technology installations and operations. Repairs and servicing should be only carried out by authorized personnel. The devices should be protected from moisture and heat.

#### **1.2. Care instructions**

In the standard version, the BENKCUBE housing is sealed with WARNEX-1K-textured paint. This should be used to eliminate visual defects. Dust can be removed with static wipes etc., or if necessary using a damp cloth.

#### **1.3. Connection**

BENKCUBE loudspeakers are connected via Speakon connectors and cables. You will need to ensure a cable cross-section of at least 1.5 mm<sup>2</sup> per strand. The impedance is 8 ohms. When operating several boxes, observe the permissible load impedance of your amplifier - two systems per channel can normally be connected. If in doubt, seek expert advice.





## **2. BENKCUBE loudspeakers**

### **2.1. Satellites**

#### **2.1.1. DS8**

The BENKCUBE DS8 Satellite is equipped with a professional two-way 8" coaxial drive unit. The loudspeaker should be used suspended or on a tripod of at least 2.5 m in height. Two suspension points are located on the connection side for this purpose (handle and eye bolts). Both of these should be used for safety purposes, as well as an optional pole mount in the diffuser plate. Electrical connection to an amplifier is via one of the 2 or 3 Speakon connectors. These are wired in parallel and used for looping the signal.

The maximum continuous load is 180W RMS at 8 ohms.

#### **2.1.2. DS6**

The BENKCUBE DS6 Satellite is equipped with a professional two-way 6.5" coaxial drive unit. The speaker should be used suspended or on a tripod of at least 2.5 m in height. Here, the rear handle can be used as a suspension point and a corresponding safety wire loop attached to one of the diffuser supports serves as the second point. The massive aluminium cone has a tripod adapter. Electrical connection to an amplifier is via one of the two Speakon connectors. These are wired in parallel and used for looping the signal.

The maximum continuous load is 180W RMS at 8 ohms and the DS6 is passively protected against low-frequency signals.

### **2.2. Subwoofer**

#### **2.2.1. SU10**

The SU10 Subwoofer is equipped with a 10" bass driver and is only suitable for the reproduction of low frequencies. The loudspeaker can be operated standing or the two suspension points on the connection side (handle and eye bolts) can be used to suspend it. Electrical connection to the amplifier and the loop-through is via the Speakon connectors. No filtering is required. Its acoustic behaviour means the SU10 can also be connected directly to a satellite (DS8 or DS6).

The maximum continuous load is 350W RMS at 8 ohms

#### **2.2.2. SU12**

The SU12 Subwoofer is equipped with a 12" bass driver and is only suitable for the reproduction of low frequencies. Electrical connection to the amplifier is via a Speakon connector and no signal filtering is required. Its acoustic behaviour means that the SU12 can also be connected directly to a satellite (DS8 or DS6). The connection panel includes another Speakon connector for looping the signal and an optional switch for correcting the phasing. The SU12 should be operated with the chassis facing downwards (down-fire arrangement). An optional flange is located on the upper side for inserting a rod with M20 thread (optional accessory).

The maximum continuous load is 350W RMS at 8 ohms.

#### **2.2.3. SU18**

The SU18 Subwoofer is equipped with an 18" bass driver and is only suitable for the reproduction of low frequencies. The input amplifier signal should be low-pass filtered. Electrical connection is via one of the two parallel wired Speakon connectors in the side handle, the other one is used for looping the signal. The SU18 rests on 100mm castors, two of which are equipped with brakes. The maximum continuous load is 800W RMS at 8 ohms.





## **2.3. Fullrange systems**

### **2.3.1. DV8**

The DV8 sound column is equipped with a two-way 8" coaxial drive unit and covers the entire frequency range up to medium levels. The DV8 can be used standing or suspended, in the latter case the two suspension points located on the port side should be used (handle and eye bolts). Electrical connection to the amplifier is via one of the two parallel wired Speakon connectors, the other one is used for looping the signal. The maximum continuous load is 90W RMS at 8 ohms.

### **2.3.2. DV8D**

The DV8D built-in loudspeaker is designed to be installed in walls and ceilings and corresponds to a DV8 without housing. It comes with a drive unit, crossover network and diffuser unit and a drilling and sawing template for installation. If necessary, rear housing can be made upon request. Assembly should be carried out by qualified personnel.

## **3. Warranty and liability**

This warranty only extends to independent claims against "don't panic" (DP) as the manufacturer and does not affect the statutory warranty rights vis-à-vis the seller. DP ensures error-free processing of BENKCUBE products for a period of 3 years from the date of purchase, but not uninterrupted or error-free operation, unless the fault is due to defects in workmanship or materials. There is no warranty for the consequences of improper use, damage, or failure to observe the operating instructions, nor for the consequences of improperly executed repairs and maintenance.

In case of failure of a BENKCUBE product, the liability of DP towards the customer is limited to repair or replacement. No consequential damages and claims by third parties (except personal injury) will be accepted.

## **4. Correct disposal**

All BENKCUBE products must be disposed of as electronic waste and must not be disposed of with domestic waste.

If you have any questions or require advice, please contact your dealer or ourselves directly.  
Have fun using your BENKCUBE products.

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