

dbJQT.PDF (dbJQT.dll_v1.0.20.40)

Please observe the following notes:

1. For safety reasons it is strongly recommended to design d&b J-, Q-, or T-Series arrays or ground stacks using the d&b ArrayCalc software. ArrayCalc in its current version can be downloaded from the d&b website at www.dbaudio.com.
A detailed description of d&b J-, Q- and T-Series system design and the operation of ArrayCalc is given in "TI 385 J-, Q- and T-Series system design, d&b ArrayCalc". This TI is provided with ArrayCalc.

While designing the setup, always watch the load limits of the array before you suspend the array. Never exceed the 100 % load limit, otherwise there is a risk of damage to people and/or material.

2. Having done your system design choose the "Export - Ease" function within ArrayCalc.
Give a meaningful file name and choose your desired directory.
The following data will be included in the export file.
 - Type of Array (J, Q or T, flown or stacked)
 - Number and type of cabinets
 - Set splay angles
 - Set levels
 - Set coupling value (CPL)
1. Within EASE open the respective loudspeaker properties window, select dbJQT.dll as loudspeaker and open the respective DLL setup window.
2. Select "Import setup" within the DLL setup window and choose the respective file.

Notes:

The following mechanical parameters have to be defined within EASE:

- Array position
- Frame height
- Vertical tilt of the frame
- Horizontal alignment of the array

The loudspeaker cabinets are not visible in symmetric rooms.

3. There are two operation modes within the DLL setup window:

System Controller EQ (CPL):

The CPL value set in ArrayCalc applies.

The following limits can be selected:

Peak: Calculated SPL as the peak limiter allows for a broad band signal.

Program: Calculated SPL for an 185 ms long broad band signal as the peak limiter allows.

RMS: Calculated SPL for an 185 ms long broad band signal with max. 10 % THD or as the thermal limiter allows.

The SPL values in the "SPL properties box" below can not be edit

Expert mode (System Controller EQ off):

The following maximum SPL values (with D12 amplifier) can be selected (3rd octave band limited):

Peak: Calculated SPL as the peak limiter allows in the individual frequency band.

Program: Measured SPL with 185 ms sine wave burst at limit.

RMS: Measured SPL with 185 ms sine wave burst at 10 % THD or calculated SPL as the thermal limiter allows.