

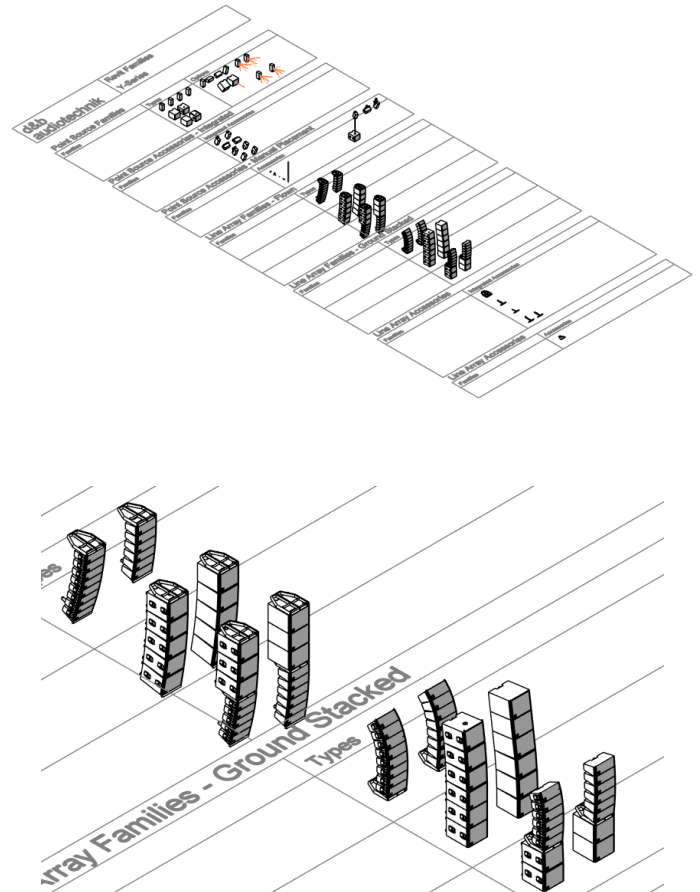
d&b audiotechnik Revit Families Y-Series - Readme

1. Overview

The d&b Revit families are based on Revit version 2016 and are created as *Communication Device* families. All families are composed at a glance in the project *d&b audiotechnik Revit Families Y-Series.rvt*. It contains all components of the Y-series. Basically, the families are split into point source families, line array families and accessories families. Where applicable, accessories are already integrated as nested families in the speaker and subwoofer families and can be scheduled accordingly.

d&b audiotechnik Revit Families Y-Series		
Revit Families Y-Series		
Point Source Families		
Families	Types	Options
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
Point Source Accessories - Integrated		
Families	Types	Options
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
Point Source Accessories - Manual Placement		
Families	Types	Options
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
Line Array Families - Flown		
Families	Types	Options
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
Line Array Families - Ground Stacked		
Families	Types	Options
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
Line Array Accessories		
Families	Types	Options
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
Line Array Accessories		
Families	Types	Options
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		
MS10 200W 200V 200V		

d&b audiotechnik Revit Families Y-Series.rvt
Plan View



d&b audiotechnik Revit Families Y-Series.rvt
Isometric Views

2. How to add d&b families into your project

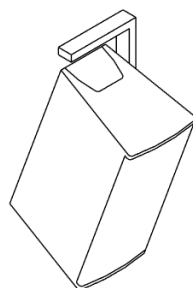
1. Open your project.
2. Open the *d&b audiotechnik Revit Families Y-Series.rvt*
3. In this project, select a family.
4. In the *Modify* menu run *Edit Family*.
This opens the Family Editor.
5. From here, run *Load into Project* (or *Load into Project and Close*) and select your project.
The family is available now in the project browser of your project under *Families > Communication Devices*. The family types can be dragged into your drawing area.
The nested families are also automatically loaded into your project and show up in the project browser.
6. You can close the family you have opened. You do not need to save it, as all families and types are still available in the *d&b audiotechnik Revit Families.rvt*.

Notes:

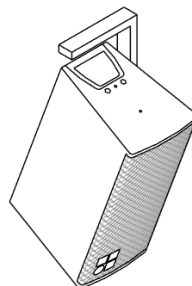
We do not recommend to run "Copy and Paste" from project to project, as this will copy only the selected type into your project. You may miss additional types in a later phase.

3. Detail Levels

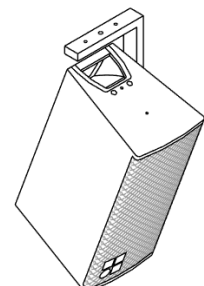
The d&b audiotechnik families support the Detail Levels Coarse, Medium and Fine.



Coarse



Medium



Fine

4. Materials

d&b audiotechnik Materials are already set in the *Type Properties* of the families.

The materials are already set for visualization in Revit.

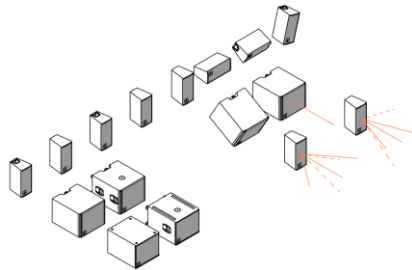
Yi-Series loudspeaker and accessories are available in black as well as in Special Color according to the RAL table. Parts that will be painted are the cabinet (d&b Paint black), grill (d&b Metal Grill Black) and front rigging (d&b Metal Black), please change colour of these Materials in Revit. The *d&b always black* Material is used for parts of the components, which you cannot order in a different color.



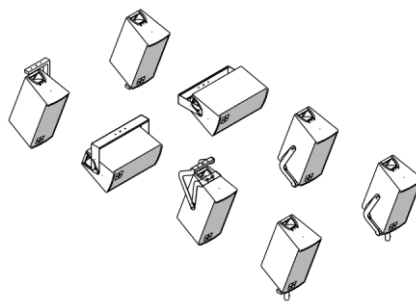
	d&b Paint Black
	d&b Metal Logo
	d&b Metal Grill Black
	d&b Metal Grey
	d&b Metal Black
	d&b always black

5. Point source families

The point source families are usually placed on a level. *Pitch* & *Rotation* parameters allow you to rotate them according to the installation. Use the *Offset* parameter in the *Properties* to set the component on a specific height. Coverage lines and rotated horn can be shown. The speaker family contain mobile and installation variants. Accessories are already integrated within the speaker family. Additional accessories can be placed manually. Reference planes and "hidden markers" support you in positioning single accessories.



TOPs & SUBs





Integrated accessories



Additional accessories

6. Point source families properties

Properties	
	d&b Y-Series Point Source Y10P
Communication Devices (1) 	
Constraints	
Pitch	0.000°
Rotation	0.000°
Level	Level 1
Host	Level : Level 1
Offset	0.0
Moves With Nearby Ele...	<input type="checkbox"/>
Construction	
Rotated Horn	<input type="checkbox"/>
Top Swivel Bracket	<input type="checkbox"/>
Top Horizontal Bracket	<input type="checkbox"/>
Top Mounting Bracket	<input type="checkbox"/>
Bottom Swivel Bracket	<input type="checkbox"/>
Bottom Mounting Bracket...	<input type="checkbox"/>
Bottom Loudspeaker St...	<input type="checkbox"/>
Wall Mount Horizontal ...	<input type="checkbox"/>
Graphics	
Coverage	<input type="checkbox"/>
Coverage Length	1000.0
Logo	<input checked="" type="checkbox"/>

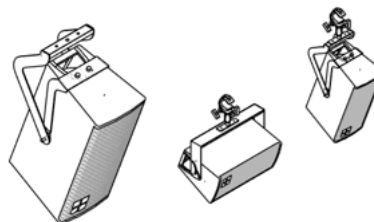
Constraints

Pitch and *Rotation* defines the rotation of the speaker in 2 axis.

Construction

Check boxes to set the accessories.

Please select only one of the accessories.



Exception

The Bottom Loudspeaker Stand can be combined with the Bottom Swivel Bracket or Bottom Mounting Bracket.

Notes:

Some of the accessories are only displayed, if this is allowed by the *Rotation* value, i.e. the Wall Mount Horizontal Bracket is not shown with rotation 0.000 degree, but with 90 or -90 degree.

Note the sample settings in the *d&b audiotechnik Revit Families.rvt*

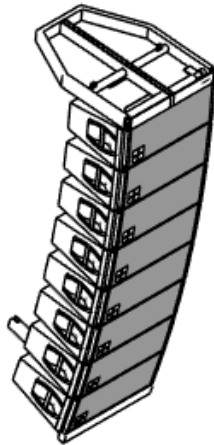
Graphics

Shows the coverage lines and the length of the Coverage lines.

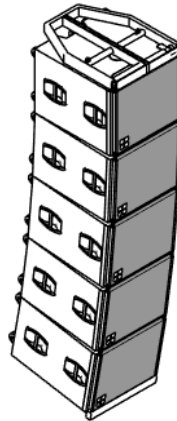
Further the d&b Logo can be deactivated. If you select *Rotated Horn* under the *Construction* headline, Coverage lines will be rotated as well.

7. Line array families

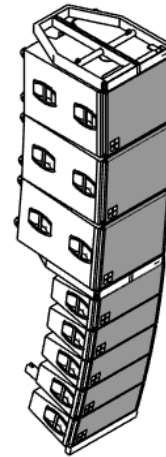
Instead of combining single speakers or subs manually to a line array in a Revit project (which is likely a cumbersome task), we have developed predefined line array families. They consist of nested families such as speakers, subs and frames. As they are nested families, they show up in the schedules. Various property settings allow to set up the line arrays. There are separate line array families for mobile and installation. The number of subs and speakers and their angles can be set in the properties. In general, we differ between the following line arrays:



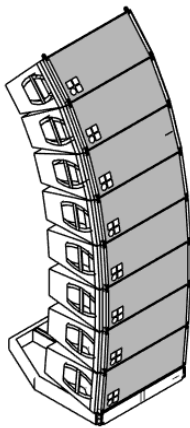
Flown array
TOPs



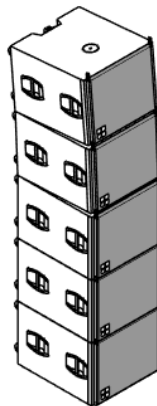
Flown array
SUBs



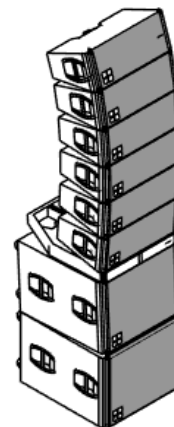
Flown array
SUBs & TOPs



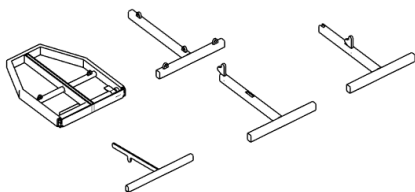
Ground stacked array
TOPs



Ground stacked array
SUBs



Ground stacked array
SUBs & TOPs



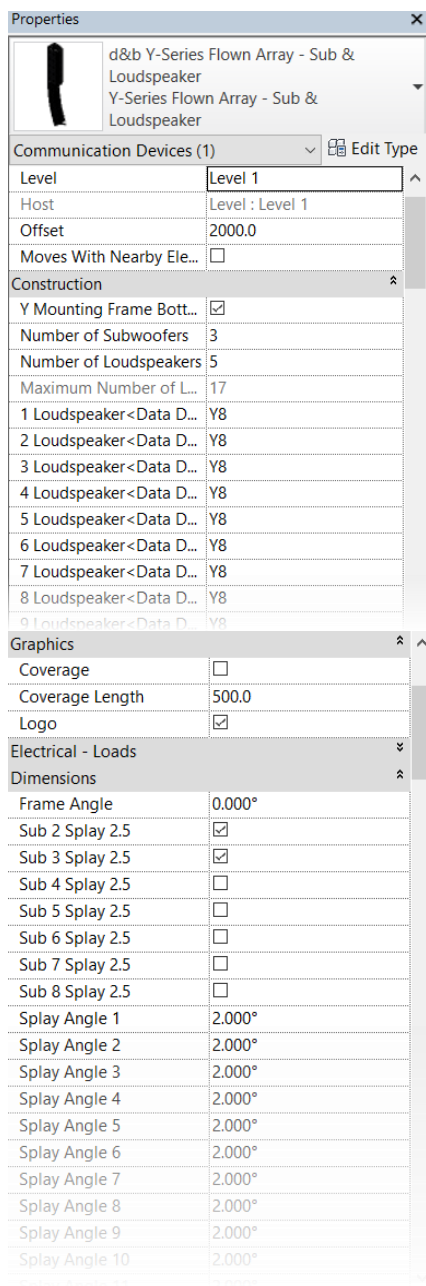
Integrated accessories



Additional accessories

8. Line array families properties

The screenshot shows a sub & loudspeaker array. Sub arrays and Loudspeaker arrays have slightly different properties.



The Offset value defines the bottom height of the top frame.

Construction

Checkboxes for the frames. For flown speaker arrays, make sure that you check only one of the top frame options.

Number of Subwoofers and Loudspeakers

The maximum number of loudspeakers is shown as notes.

Please observe the corresponding rigging manuals for safe use and check the load limits using ArrayCalc!

1 Loudspeaker	[Y8 or Y12]	[Yi8 or Yi12]
2 Loudspeaker	[Y8 or Y12]	[Yi8 or Yi12]
3 Loudspeaker	[Y8 or Y12]	[Yi8 or Yi12]

Defines the use of Y8/Y12 or Yi8/Yi12 speakers, the prefix number stands for the position, measured from top for flown arrays, from bottom for ground stacked arrays.

Graphics

Shows the coverage lines and the length of the Coverage lines.

Further the d&b Logo can be deactivated.

Dimensions

Here you set the angles between each component. Make sure that you set the values according the d&b audio installation manuals, as Revit would allow any values!

SUBs: 0° or 2.5°

Y8/Y12/Yi8/Yi12: 0°;1°;2°;...;14°

9. Type properties

Additional data is integrated in the type properties of the families and can be schedules, such as *Part Number* and the properties under the *Data* group.

Type Properties

Family: d&b Y-Series Point Source
Load...

Type: Y7P
Duplicate...

Rename...

Type Parameters

Parameter	Value
Construction	
Handle	<input checked="" type="checkbox"/>
Materials and Finishes	
Enclosure Material	d&b Paint Black
Grill Material	d&b Metall Grill Black
Metal Material	d&b Metall Black
Dimensions	
Height	580.0
Width	257.0
Depth	341.0
Identity Data	
Part Number	Z0702
Support Email	support@dbaudio.com
Support Phone	+49 7191 9669-0
Type Image	
Keynote	
Model	Y7P Loudspeaker
Manufacturer	d&b audiotechnik GmbH
URL	www.dbaudio.com
Type Comments	
Description	High performance 2-way passive point source
Assembly Code	
Cost	
Assembly Description	
Type Mark	
OmniClass Number	23.85.10.11.14.14.14
OmniClass Title	Loudspeakers
Code Name	
Data	
Frequency Range Low (-5 dB Standard)	59.00 Hz
Frequency Range High (-5 dB Standard)	18.00 Hz
Max. SPL (1m, Free Field) with D6/10D	132
Max. SPL (1m, Free Field) with D20/30D	135
Max. SPL (1m, Free Field) with D80	137
SPL Max	137
SPL Stimulus	SPL max peak test signal: pink noise with crest
Cabinets per Amplifier Channel	2
Power Handling Capacity Peak 10 ms	1600.00 W
Power Handling Capacity RMS	400.00 W
Coverage Horizontal	75.000°
Coverage Vertical	40.000°
Weight	18.000 kg
LF Diameter	8 Inch
LF Quantity	2
HF Diameter	3 Inch
HF Quantity	1
HF Exit	1.4 inch
Connections	2 x NLT4 F/M, optional 2xNL4 or 2xEP5
Cabinet Materials	Marine Plywood
Cost MSRP	0.00
Cost Project	0.00

<< Preview
OK
Cancel
Apply

10. Schedules

Note:

The *Communication Device* Schedule in *d&b audiotechnik Revit Families.rvt*. It counts the components including their data.

Family	Type	Manufacturer	Model	Part Number	Description
d&b Y-Series Point Source	Yi7P	d&b audiotechnik GmbH	Yi7P Loudspeaker	Z0712	Installation specific high performance 2-way point source
d&b Y-Series Point Source	Y7P	d&b audiotechnik GmbH	Y7P Loudspeaker	Z0702	High performance 2-way point source
d&b Y-Series Point Source	Yi10P	d&b audiotechnik GmbH	Yi10P Loudspeaker	Z0713	Installation specific high performance 2-way point source
d&b Y-Series Point Source	Y10P	d&b audiotechnik GmbH	Y10P Loudspeaker	Z0703	High performance 2-way point source
d&b Y-Series Subwoofer	Yi Sub	d&b audiotechnik GmbH	Yi7 Subwoofer	Z0719	Installation specific high performance 2-way subwoofer
d&b Y-Series Subwoofer	Y Sub	d&b audiotechnik GmbH	Y7 Subwoofer	Z0709	High performance flyable 2-way subwoofer
d&b Y Flying Frame	Y Flying Frame	d&b audiotechnik GmbH	Y Flying Frame	Z5390	Y Flying Frame for a maximum of 8 loudspeakers
d&b Y-Series Flown Array - Sub	Y-Series Flown Array - Sub	d&b audiotechnik GmbH	Flown Array with max. 8 loudspeakers		
d&b Y Flying Frame	Y Flying Frame	d&b audiotechnik GmbH	Y Flying Frame	Z5390	Y Flying Frame for a maximum of 8 loudspeakers
d&b Y-Series Flown Array - Sub & Loudspeaker	Y-Series Flown Array - Sub	d&b audiotechnik GmbH	Flown Array with max. 8 loudspeakers		
d&b Y Flying Frame	Y Flying Frame	d&b audiotechnik GmbH	Y Flying Frame	Z5390	Y Flying Frame for a maximum of 8 loudspeakers
d&b Y-Series Ground Stacked Array - Sub	Y-Series Ground Stacked	d&b audiotechnik GmbH	Ground Stacked Array with max. 8 loudspeakers		
d&b Y-Series Subwoofer	Y Sub	d&b audiotechnik GmbH	Y7 Subwoofer	Z0709	High performance flyable 2-way subwoofer
d&b Y-Series Subwoofer	Y Sub	d&b audiotechnik GmbH	Y7 Subwoofer	Z0709	High performance flyable 2-way subwoofer
d&b Y-Series Subwoofer	Y Sub	d&b audiotechnik GmbH	Y7 Subwoofer	Z0709	High performance flyable 2-way subwoofer
d&b Y-Series Subwoofer	Y Sub	d&b audiotechnik GmbH	Y7 Subwoofer	Z0709	High performance flyable 2-way subwoofer
d&b Y-Series Ground Stacked Array - Sub & Loudspeaker	Y-Series Ground Stacked	d&b audiotechnik GmbH	Ground Stacked Array with max. 8 loudspeakers		
d&b Y-Series Subwoofer	Y Sub	d&b audiotechnik GmbH	Y7 Subwoofer	Z0709	High performance flyable 2-way subwoofer
d&b Y-Series Ground Stacked Array - Loudspeaker	Y-Series Ground Stacked	d&b audiotechnik GmbH	Groundstack Line Array		
d&b Y Flying Frame	Y Flying Frame	d&b audiotechnik GmbH	Y Flying Frame	Z5390	Y Flying Frame for a maximum of 8 loudspeakers
d&b Y-Series	Y8	d&b audiotechnik GmbH	Y8 Loudspeaker	Z0707	High performance 2-way point source
d&b Y-Series	Y8	d&b audiotechnik GmbH	Y8 Loudspeaker	Z0707	High performance 2-way point source
d&b Y Flying Adapter	Y Flying Adapter	d&b audiotechnik GmbH	Y Flying Adapter	Z5394	Y Flying Adapter for a maximum of 8 loudspeakers
d&b Y-Series	Y8	d&b audiotechnik GmbH	Y8 Loudspeaker	Z0707	High performance 2-way point source
d&b Y-Series	Y8	d&b audiotechnik GmbH	Y8 Loudspeaker	Z0707	High performance 2-way point source
d&b Y-Series	Y8	d&b audiotechnik GmbH	Y8 Loudspeaker	Z0707	High performance 2-way point source
d&b Y-Series Flown Array - Loudspeaker	Y-Series Flown Array - Loudspeaker	d&b audiotechnik GmbH	Flown Array with max. 8 loudspeakers		
d&b Y Mounting Frame Bottom	Y Mounting Frame Bottom	d&b audiotechnik GmbH	Y Mounting Frame Bottom	Z5393.001	Y Mounting Frame Bottom
d&b Y Mounting Frame Bottom	Y Mounting Frame Bottom	d&b audiotechnik GmbH	Y Mounting Frame Bottom	Z5393.001	Y Mounting Frame Bottom
d&b Y-Series Flown Array - Loudspeaker	Y-Series Flown Array - Loudspeaker	d&b audiotechnik GmbH	Flown Array with max. 8 loudspeakers		
d&b Y-Series	Yi8	d&b audiotechnik GmbH	Yi8 Loudspeaker	Z0717	High performance 2-way point source
d&b Y-Series	Yi8	d&b audiotechnik GmbH	Yi8 Loudspeaker	Z0717	High performance 2-way point source

11. Tags

You can use the integrated d&b annotation tag to automatically annotate the types with part number or Type name.

