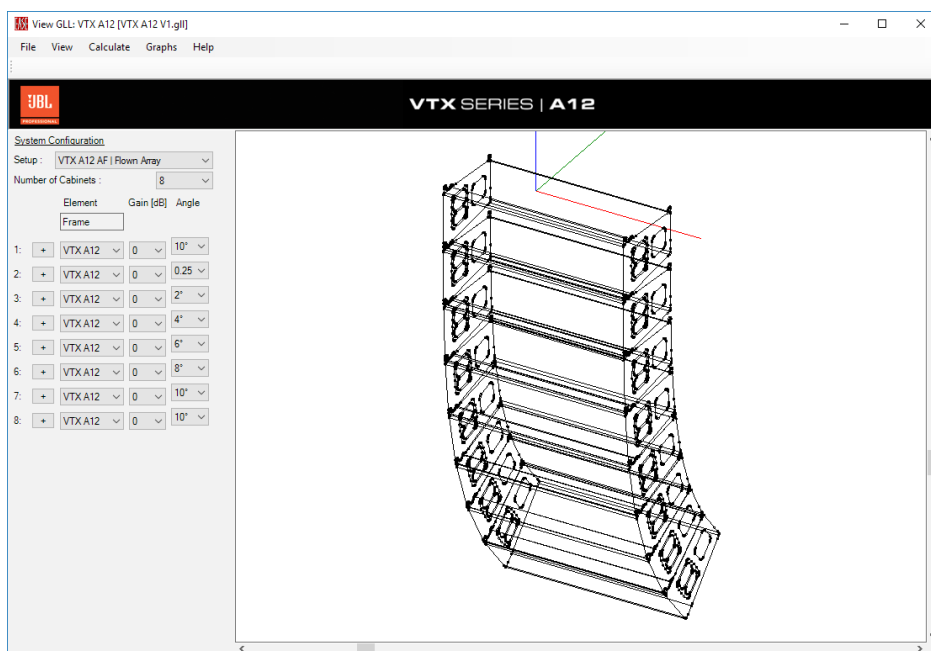


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PROFESSIONAL

VTX SERIES
SYSTEM SOLUTIONS

A12 | EASE GLL User Guide



GENERAL INFORMATION

VTX A12 - EASE GLL User Guide

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JBL PROFESSIONAL

8500 Balboa Blvd

Northridge, CA 91329

USA

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1 - REVISION HISTORY

Version 1.1:

- Added VTX A12W to the GLL

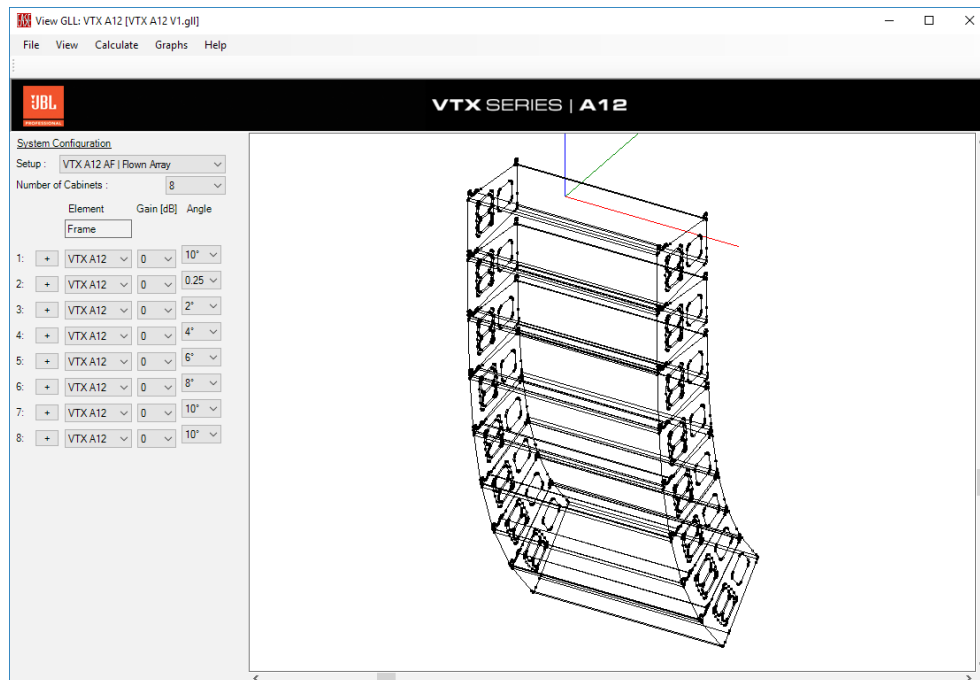
Version 1.0:

- Initial VTX A12 EASE GLL release

2 - INTRODUCTION

2.1 - EASE GLL OVERVIEW

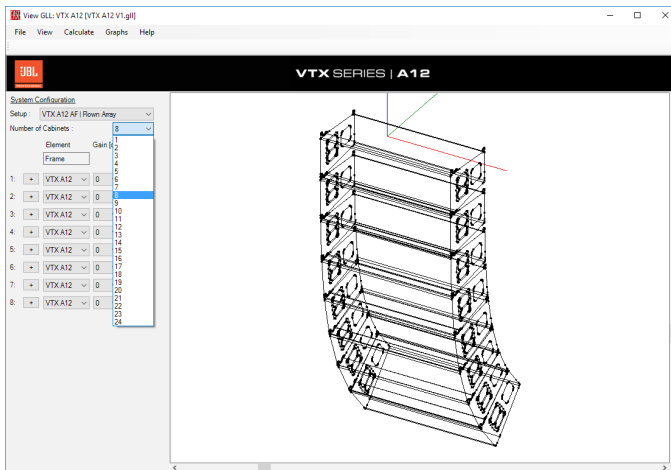
The VTX A12 EASE GLL is used to model VTX A12 and VTX A12W line arrays in AFMG's EASE 3D prediction software. The EASE GLL format offers several advantages over the older DLL format including, MAX SPL calculations based on input voltage rather than power, and the ability to include the loudspeaker speaker presets in the calculations.



2.2 - JBL LINE ARRAY CALCULATOR™

JBL's Line Array Calculator 3 software should always be used first before modeling an array in EASE. LAC-3 is used to determine the box-to-box angles (array geometry) which is then transferred to the EASE GLL user interface. It's also important to note that EASE does NOT model the suspension characteristics of an array (safety factors), and so all array designs should be verified using LAC-3 for confirmation that mechanical parameters are within safe limits.

3 - GLL USER INTERFACE OVERVIEW

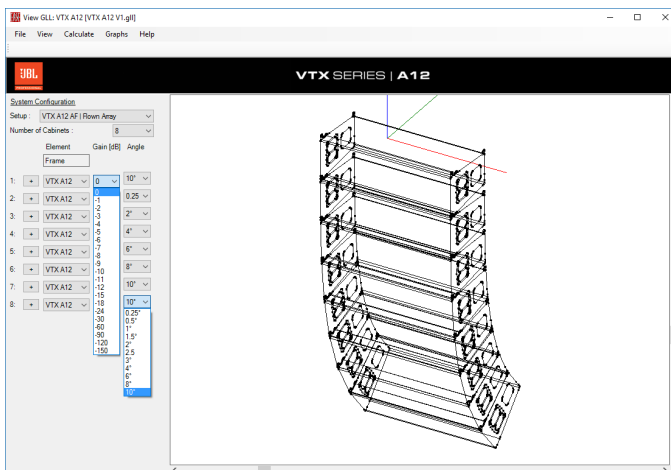


3.1 - SYSTEM CONFIGURATION

System Configuration allows for changing the array setup, i.e. Flown Array or Ground Stack. Version 1.1 of this EASE GLL **only allows for flown array configurations** using the VTX A12 AF Array Frame.

3.2 - NUMBER OF CABINETS

Number of cabinets allows for selecting the number of cabinets used in a single array. A12 arrays can be as long as 24 x cabinets deep depending on the array geometry, configuration and desired Design Factor. Use the JBL Line Array Calculator to determine the appropriate number of cabinets before using the EASE GLL.



3.3 - ANGLE SELECTION

The Angle drop-down menu allows for selecting the inter-enclosure splay angle. The top cabinet of an array is preset to the 10-degree position since that is the correct position for connecting to the VTX A12 Array Frame.

Box-to-box angles can be: **0.25, 0.5, 1, 1.5, 2, 2.5, 3, 4, 6, 8, 10**

3.4 - GAIN (DB)

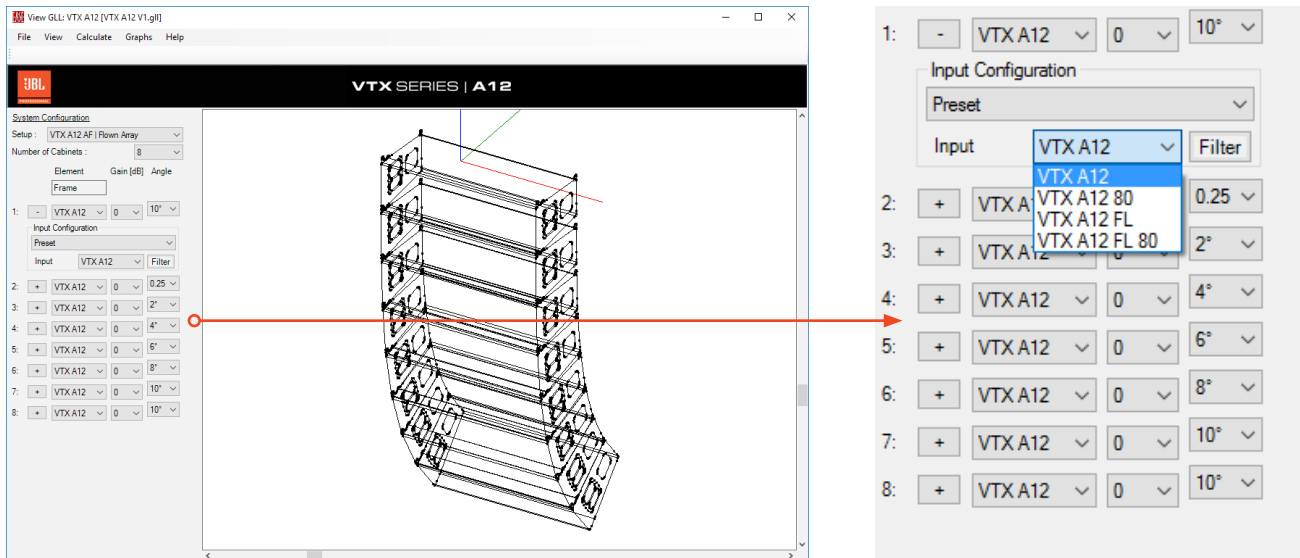
The Gain (dB) drop-down menu allows for adjusting the gain for each enclosure. Gain changes should be done according to the physical wiring of the array. For example, if the array is grouped in circuits of 3 cabinets, gain adjustments should be the same for all 3 cabinets within the circuit. Use LAC to determine circuit gain values.

3.5 - SPEAKER TYPE

The speaker selection drop-down menu can be used to select between the A12 and A12W options. Combination arrays can be created by first selecting A12 for the top section of the array and A12W for the lower section of the array.

4 - INPUT CONFIGURATION

The GLL Input Configuration menu allows for selecting the factory-standard speaker presets to be used for calculating SPL values in EASE. The drop-down menu includes four choices for the A12 and A12W models. These preset options correspond directly to the VTX A12 DSP presets used in Crown I-Tech HD amplifiers when powering VTX A12 arrays.



4.1 - SPEAKER PRESET OPTIONS

VTX A12: This is the standard VTX A12 preset for array use. A high-frequency shelving response is applied to offset LF/MF array buildup for nominally-focused arrays (equal enclosure site angle impact spacing over the desired audience coverage area). With this preset, the acoustical low-frequency response of the system extends down to 45Hz (Fullrange). This preset is the default selection for the A12 EASE GLL and should be used in most situations.

VTX A12 80: This is the same as the standard VTX A12 full range preset but with an 80Hz high-pass filter. Note that since EASE is generally used for predicting coverage patterns that exclude lower frequencies, selecting this preset may not make much difference in the software.

VTX A12 FL: The FL presets (short for FILL) have nominally-flat frequency response and are to be used in situations where one or two A12 cabinets are appropriate, such as distributed front fills. With this preset, the acoustical low-frequency response of the system extends down to 45Hz (Fullrange).

VTX A12 FL 80: This is the same as the standard VTX A12 FL preset but with an 80Hz high-pass filter. Note that since EASE is generally used for predicting coverage patterns that exclude lower frequencies, selecting this preset may not make much difference in the software.

4.2 - PRESET SELECTION

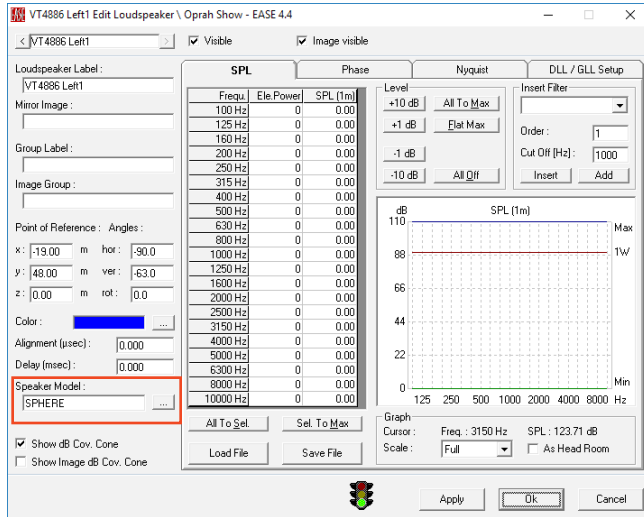
All cabinets within an array must use the same preset selection. Using different presets within a single array is not supported.

4.3 - FILTER

The filter button allows for adding external filter parameters to an array or number of boxes. Since the VTX A12 EASE GLL includes all the correct factory-supported DSP presets, there is no need to use the external filter option.

5 - USING THE GLL

Follow these steps to open and use the VTX A12 EASE GLL within EASE:

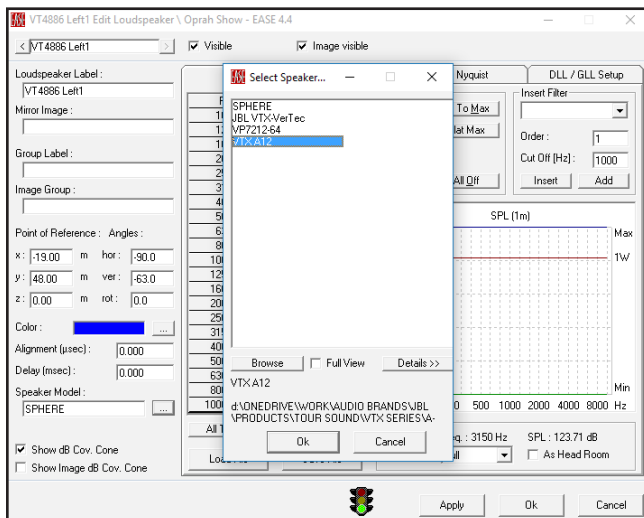


1 - DOWNLOAD AND UNZIP THE GLL

Go to www.jblpro.com and locate the EASE GLL for VTX A12 on the Tour Sound section of the website. Save the .zip file to a known location and then unzip the GLL file from the archive.

2 - LOAD EASE VENUE FILE

Start EASE and load or build a venue. Once the venue is ready, insert a loudspeaker using the Insert menu or by using the Insert Loudspeaker tool.

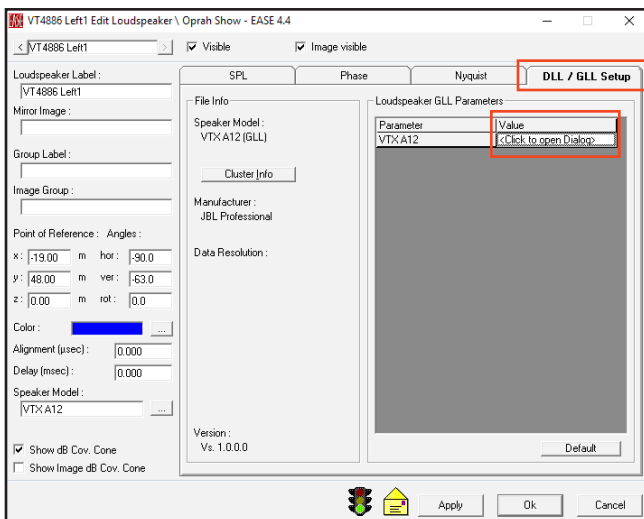


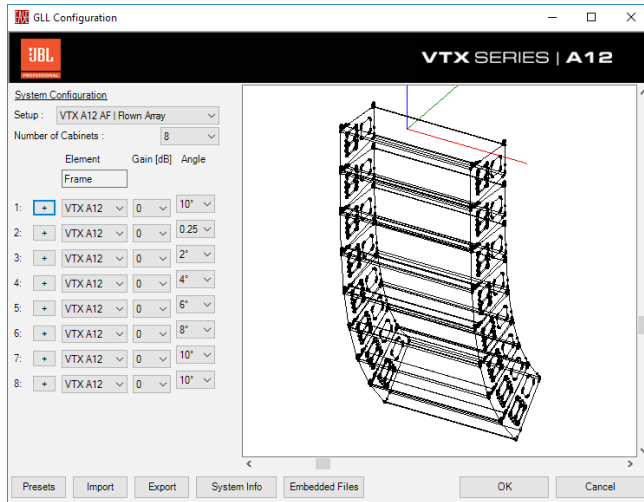
3 - SELECT THE GLL

Click on the Speaker Model button to select a GLL. If the A12 is not part of the list that is presented, click on the Browse button and navigate to the folder location where the VTX A12 GLL was unzipped. Select the A12 GLL and click OK.

4 - GLL SETUP

Once loaded, navigate to the DLL/GLL Setup tab and click on the 'Click to Open Dialogue' button.



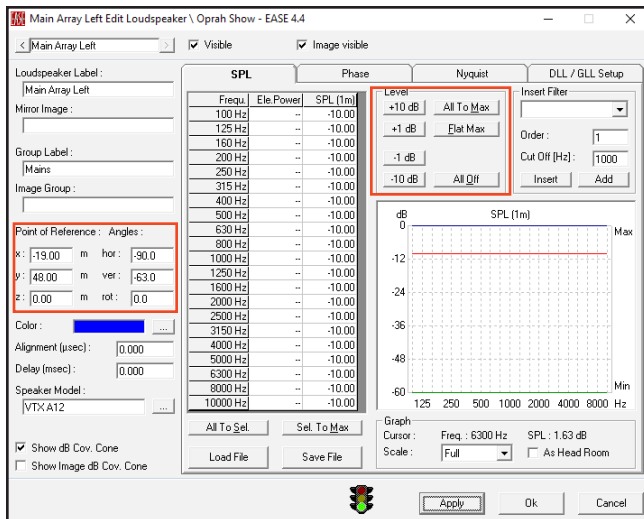


5 - GLL UI

Once the A12 GLL is loaded, manually transfer the information (such as inter-enclosure angles or array site angle) from the JBL LAC. Click OK after all information has been entered.

6 - OVERALL ADJUSTMENTS

Overall aiming and array level adjustments can be made using the Point of Reference and Level sections of the Edit Loudspeaker dialogue.



7 - CONTACT INFORMATION

Harman Professional Headquarters

8500 Balboa Blvd.
Northridge, CA 91329
+1 (800) 852-5776
www.jblpro.com

Worldwide Customer Service:

Monday through Friday
8:00am - 5:00pm
Pacific Coast Time in the U.S.A.
(800) 8JBLPRO (800.852.5776)
www.JBLservice.com

Worldwide Technical Support:

Monday through Friday
8:00am - 5:00pm
Pacific Coast Time in the U.S.A.
(800) 8JBLPRO (800.852.5776)
support@jblpro.com

Professional Contacts, Outside the USA:

Contact the JBL Professional Distributor in your area.

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