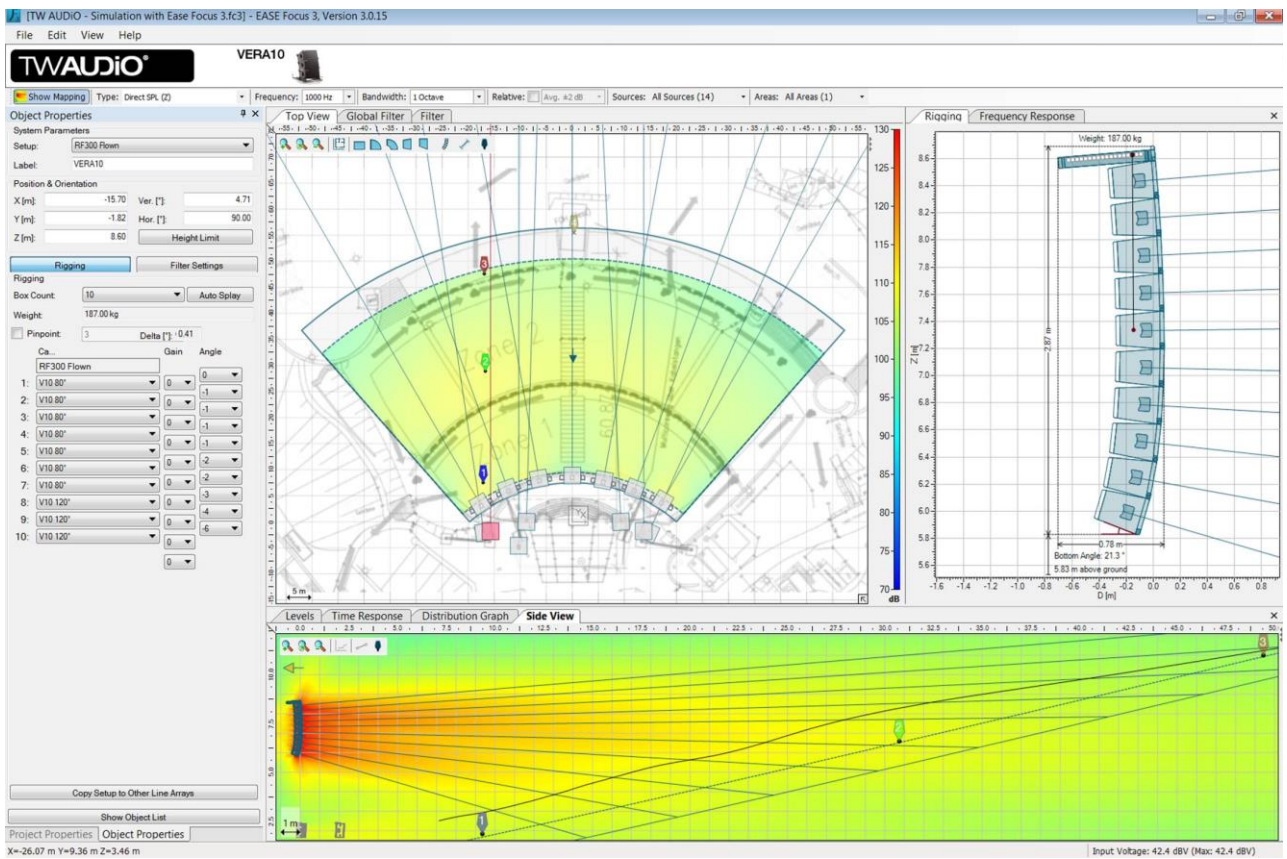


## EASE FOCUS 3 QUICK START GUIDE



## General information

TW AUDiO EASE Focus 3 guide  
Version 1.6 EN, 30.01.2025

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## 1. Installation

TW AUDiO offers a prepacked installer. The installer will install EASE Focus 3, TW AUDiO simulation data (GLLs) and TW AUDiO predefined settings.

Start the installation of EASE Focus 3 by opening the zip file and running “setup.exe”

## 2. Settings

In the TW AUDiO EASE Focus 3 Package several settings are preset. Differences to AFMG default settings are described in this chapter.

All settings can be reset to AFMG's defaults by opening EASE Focus 3 with the Start menu entry "Start with default setting".

### 2.1. Window Layout

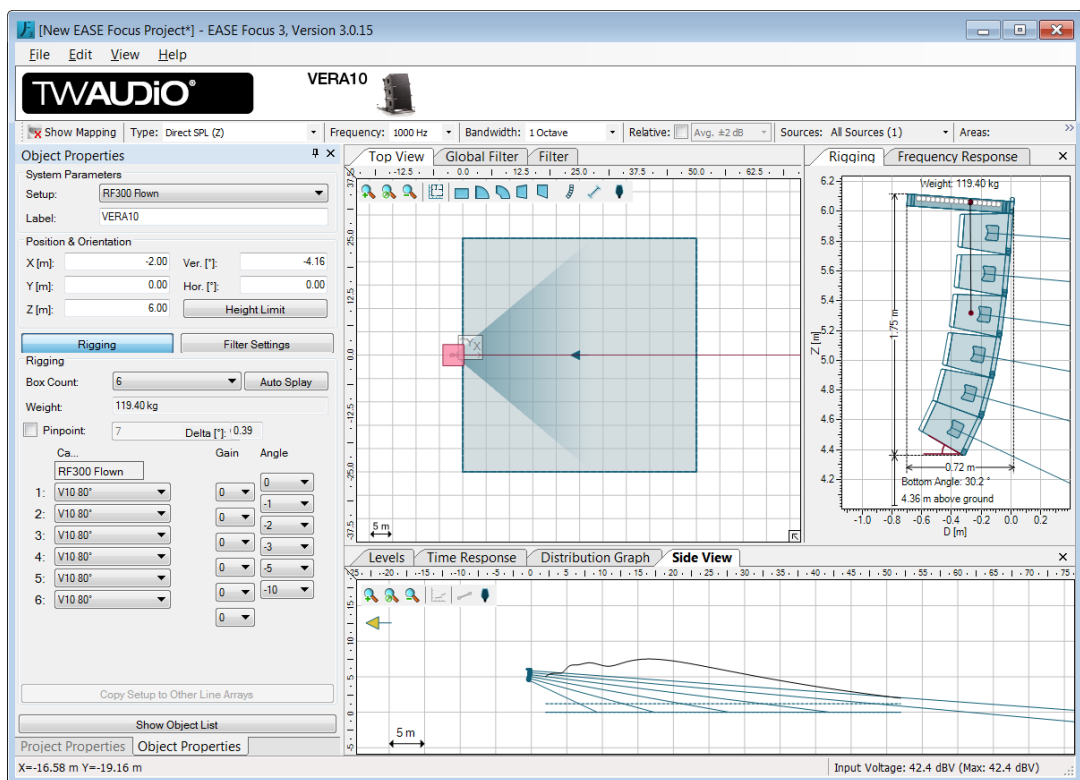
EASE Focus 3 is based on Microsoft's ".Net Framework" which allows an easy rearrangement of the independent tabs. To reallocate a tab, grab the tab at its name label and move it to the new position.

TW AUDiO predefined the following window layout.

Central: Top View, Global Filter, Filter

Right: Rigging, Frequency Response

Bottom: Levels, Time Response, Distribution Graph, Side View



### 2.2. Mapping Color

If the mapping color range is set to automatic scale, the scale will change for each frequency band, which prohibits a comparison between the bands. This is why TW AUDiO disabled the automatic scaling of the mapping colors and all other level scaling.

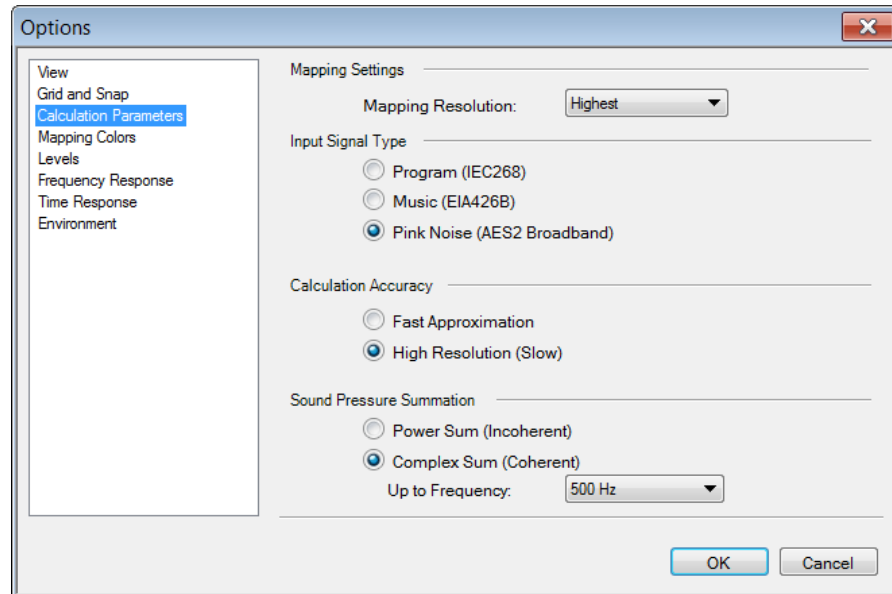
The mapping color scale, the level view and the frequency response are set to the range 80 dB - 110 dB.

In small or large scale application it might be necessary to adjust this range to an appropriate range. Level settings can be changed in the options menu (F9).

### 2.3. Sound Pressure Summation

A new feature of version 3 is the option to use complex summation (coherent) between individual speakers. This option can be adjusted by a frequency setting. Up to this frequency a coherent summation is calculated, above incoherent summation is calculated. For further information: EASE Focus 3 User's Guide Page 49.

In the TW AUDiO Ease Focus 3 settings this frequency is set to 1000 Hz.

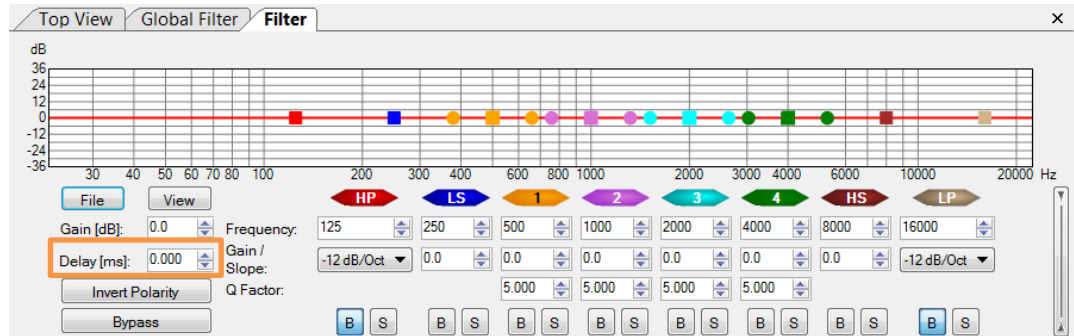


### 3. System definitions

TW AUDiO offers system definitions for all available speakers. The following section describes GLL features separated by product series.

#### 3.1. General

All speakers can be delayed by using the “Delay” option in the Filter Tab. Select source in Top View before editing.



#### 3.2. M-Series

##### 3.2.1. M6, M8, M10, M12, M15

For each product a GLLs is available with default orientated horn and with rotated horn. The coverage range is shown in the source selection window.

The system definitions include the available DSP presets. As default preset “full” is set. The setting is changeable to “cut”, “flat” and “DSP off” in the Input configuration:



The point of origin is located in the center of front foam.

#### 3.3. C-Series

##### 3.3.1. C12, C15

The default orientation is like the box is mounted on a speaker stand.

For each product the GLLs is available with default orientated horn and with rotated horn. The coverage range is shown in the source selection window.

The system definitions include the available DSP presets. As default preset “full” is set. The setting is changeable to “cut”, “flat” and “DSP off” in the Input configuration.

The point of origin is located in the center of front grill.

##### 3.3.2. C5:

The default orientation is upright.

The system definitions include the available DSP presets. As default preset “full” is set. The setting is changeable to “cut”, “flat” and “DSP off” in the Input configuration.

The point of origin is located in the center of front grill.

### 3.4. T-Series

#### 3.4.1. T20

The default orientation is upright.

A GLLs is available with default orientated horn and with rotated horn. The coverage range is shown in the source selection window.

The system definitions include the available DSP presets. As default preset “full” is set. The setting is changeable to “cut” and “flat” in the Input configuration.

The point of origin is located in the center of the front foam.

#### 3.4.2. T24N

The T24N GLL contains several box types. Besides two different horn types, horn rotation is available.

The rigging of T24N allows up to 6 T24N one below the other. This can be simulated as well. The “upside down” box type turns the box and allows a simulation with HF horns closer together.

The system definition includes the operating modes and available DSP presets. As a default, operation mode is set to passive and “full” preset. In “passive” and in “biamp” operating mode the preset can be changed to “flat” or “cut”.

The point of origin is located in the upper pin point of the BLT24 (see T24N Rigging and Hardware).

#### 3.4.3. T30i

A GLLs is available with default orientated horn and with rotated horn. The coverage range is shown in the source selection window.

The system definitions include the available DSP preset.

The point of origin is located in the center of the front foam.



### 3.5. VERA

Point of origin: Upper Pin Point of Top Box

#### 3.5.1. VERA10

For S18 simulation the correct frame has to be selected. For flown setup use “RF300 with RFEX”, for stacked setup use “S18 stack”. Please take into account, that another RF300 with RFEX is needed if other VERA10 box types are used in the same array.

Ca...	Gain	Angle
RF300 Flown		
1: S18	0	0
2: S18 REAR (CSA)	0	0
3: S18	0	0
4: RF300+RFEX	0	0
5: V10 80°	0	0
6: V10 80°	0	0
7: V10 80°	0	0
8: V10 80°	0	0
9: V10 80°	0	0

The DSP settings can be changed in the “Filter Settings” Tab. LF DSP preset is set by default to “flat”, but can be changed to “cut” or “full” operation mode. If V10P is used, the operation mode and the HF attenuation can be changed in this menu as well.

Rigging
Filter Settings

**Filter Settings**

Input Configuration

1: V10 80° ———— BIAMPED mode

HF: HF

LF: flat

2: V10 80° ———— BIAMPED mode

HF: HF

LF: flat

3: V10 80° ———— BIAMPED mode

HF: HF

LF: flat

4: V10 80° ———— BIAMPED mode

HF: HF

LF: flat

#### 3.5.2. VERA20

The DSP settings can be changed in the “Filter Settings” Tab. LF DSP preset is set by default to “flat” but can be changed to “full” mode.

### 3.5.3. VERA20i

The DSP settings can be changed in the “Filter Settings” Tab. LF DSP preset is set by default to “flat” but can be changed to “full” mode.

Please consult RF600i manual for angle settings table!

### 3.5.4. VERA36

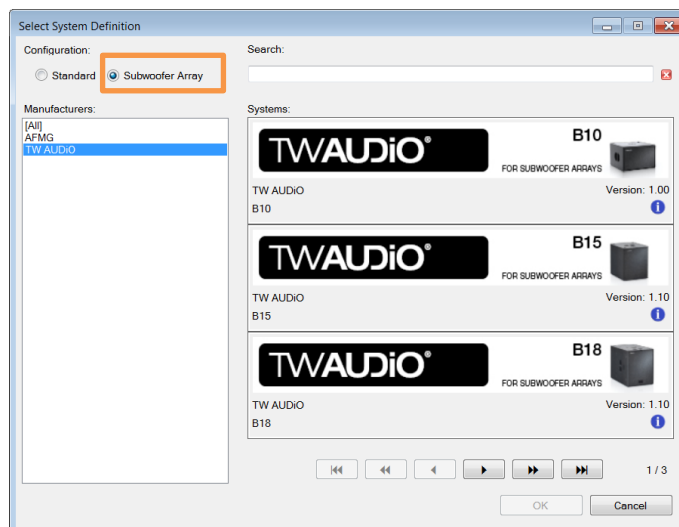
The DSP settings can be changed in the “Filter Settings” Tab. LF DSP preset is set by default to “flat” but can be changed to “full” mode.

### 3.5.5. S32, S33

DSP Presets is set to “cardio” operation mode but can be switched to “endfire” mode (soon available for S32).

## 3.6. B-Series

A new Feature in Ease Focus 3 are subwoofer arrays. TW AUDIO GLLs for this feature are marked with “For Subwoofer Arrays”. Select “Subwoofer Array” in the “Add source” dialog and all GLLs that can be inserted will be shown.



Besides the “Subwoofer Arrays” which contains only single boxes, it is possible to add subwoofers in “Standard” mode as well. This can be done with all subwoofer GLLs. Subwoofer GLLs which can only be used in “Standard” mode are marked with “For CSA Stacks”.

Point of origin for all subwoofers: front grill bottom

### 3.6.1. B10, B15, B18, BS17i

GLL available for subwoofer arrays.

### 3.6.2. BS30

For BS30 there are 3 GLLs available:

1. For CSA Stack: This version contains the option to simulate CSA stacks of BS30 in vertical and horizontal orientation. DSP presets are applied automatically. This version cannot be used in subwoofer array mode.

2. Horizontal: lying, DSP preset can be changed to CSA (rear).
3. Vertical: upright orientated, DSP preset can be changed to CSA (rear).

### 3.6.3. BSX

BSX vertical and BSX horizontal GLLs are available for subwoofer arrays. DSP preset is applied and can be switched to CSA (rear).

### 3.6.4. S18

For S18 CSA Simulation use VERA10 GLL in S18 stacking mode (select "S18 stack" as frame).