

# Velodyne<sup>®</sup>

ACOUSTICS

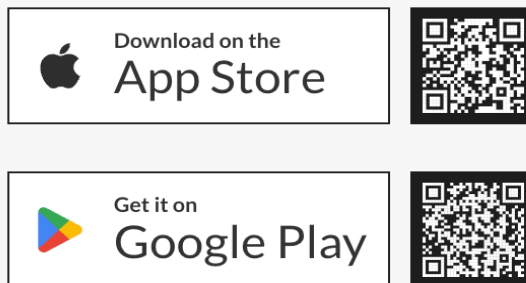
## AutoEQ App

MANUAL





App for SPL-X



### App usage notice

To allow the app to communicate with your subwoofer, Bluetooth must be enabled on your mobile device. Please make sure Bluetooth is turned on in your device settings before launching the app or attempting to connect.

Without an active Bluetooth connection, the subwoofer cannot be set up or controlled via the app.

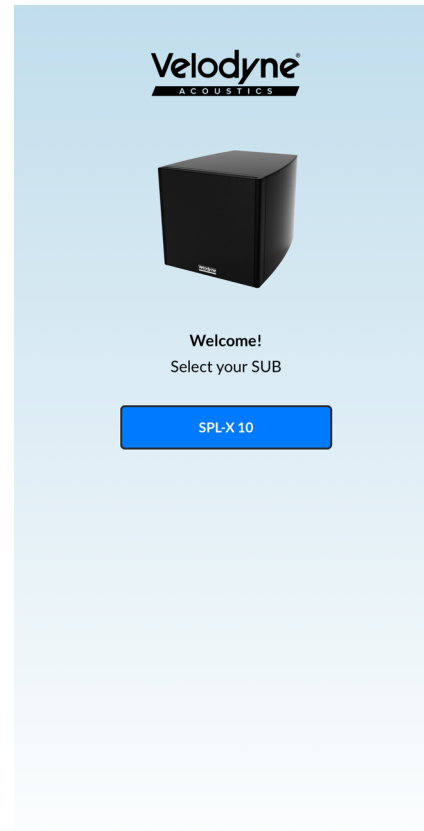
If the subwoofer does not appear in the app automatically, you can initiate manual pairing: Press and hold the reset button on the device for three seconds to activate pairing mode. The subwoofer should then become available for connection within the app.

## VELODYNE ACOUSTICS AutoEQ APP

The Velodyne Acoustics AutoEQ SUB control smartphone app allows you to setup and configure your SPL-X subwoofer with the comfort of your seating position. Download the app from the Apple App Store or Google Play Store. Adjustments like volume, crossover frequency and phase, etc. as well as the Auto EQ function, can be adjusted within the app.

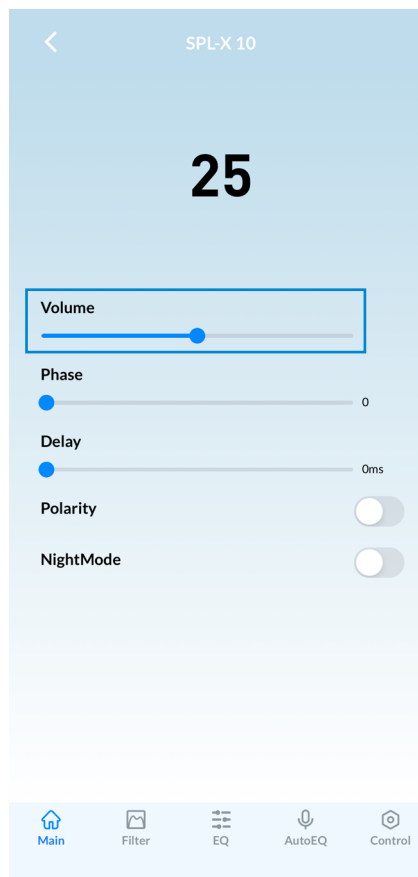
### Connect to your subwoofer

1. Open the app.
2. The subwoofer will be detected automatically and displayed in the device list.
3. Simply select the subwoofer to establish the connection.
4. If the subwoofer does not appear in the app automatically, you can initiate manual pairing: Press and hold the reset button on the device for three seconds to activate pairing mode. The subwoofer should then become available for connection within the app.
6. Repeat steps 1-5 for additional Velodyne Acoustics SPL-X subwoofers. \*Devices can be renamed to be able to distinguish them.
7. Your subwoofer is now connected and can be controlled from the AutoEQ app.



## General adjustments

1. Volume Control APP  
adjust the subwoofer level by  
sliding the control dot from 0 to 30  
Note: The information given in the  
app and the display on the back of  
the subwoofer are synchronised.

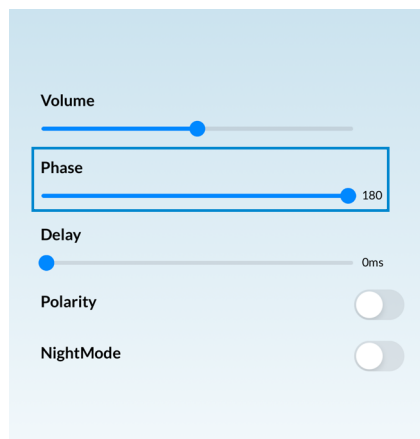


2. Volume Control DEVICE  
adjust the subwoofer level by  
sliding the control dot from 0 to 30



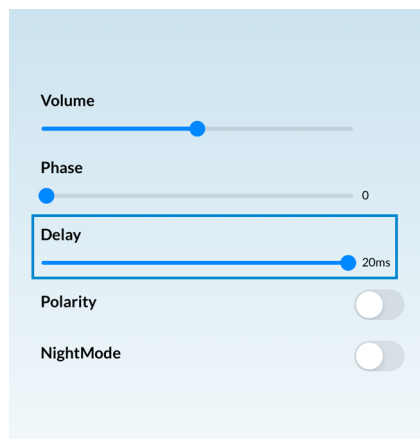
### 3. Phase

The phase setting ensures seamless integration of bass with the rest of your speakers. By fine-tuning the phase, you can prevent low frequencies from canceling each other out or becoming overly pronounced, which can disrupt the overall sound balance. The app allows for continuous phase adjustment, helping you achieve a smooth transition and perfect integration into your home theater or music setup.



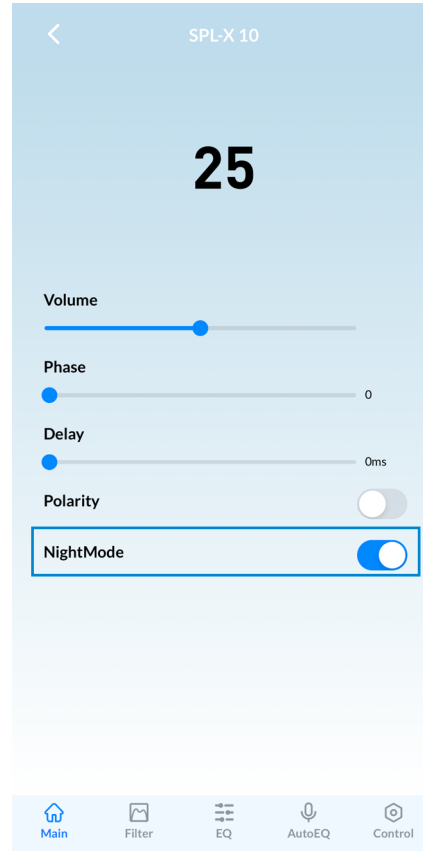
### 4. Delay

Adjusts the signal delay of the incoming audio signal and is used to better blend the audio from the subwoofer to other speakers in the installation.



### 5. Power Reduction/Night Mode

The Power Reduction or Night Mode lowers power consumption to save energy. This ensures more efficient operation, especially at low volume levels or in quiet environments.



## Adjustable Slope Settings

The adjustable slope settings in the app enhance sound quality by allowing precise control over the crossover transition.

This ensures optimal integration of the subwoofer with the room acoustics and personal listening preferences.

In the Filter section, the slope can be individually adjusted for three parameters:

- Low
- Subsonic Filter

To adjust the slope for any of these parameters:

1. Tap the corresponding slope control to activate the adjustment mode.
2. The slope adjustment section will then link to the selected frequency parameter.
3. Use the selection box at the bottom to choose a slope value of 12, 24, 36, or 48 dB/octave.

This flexibility allows for precise tuning of the frequency response, ensuring seamless integration into your sound system.



## Manual EQ

### 1. Manual EQ

Allows you to manually adjust the Frequency, Gain and Q-factor of 8 independent PEQs.

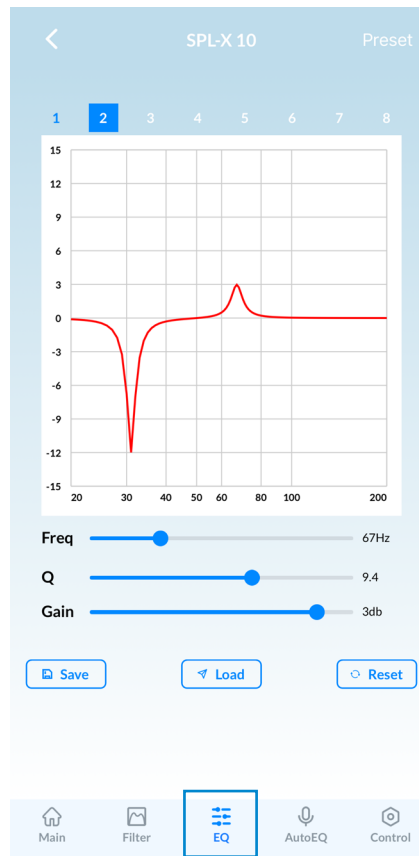
### 2. Flat button

If you hit this button all PEQ are set into neutral. Note: If the EQ-curve is already set, it will be the new neutral.

3. By hitting any dot on the frequency curve you are selecting one individual Equalizer, they can be individually adjusted from 20Hz to 200 Hz by sliding left to right on the frequency curve graph. After selecting one dot, you can also change the settings by hitting the "Set" button.

### 4. PEQ setting

For all 8 individual PEQ you can set the gain to +6db max. to -18db, frequency from 20 Hz to 200 Hz and the Q-factor from 0.1 to 15.0

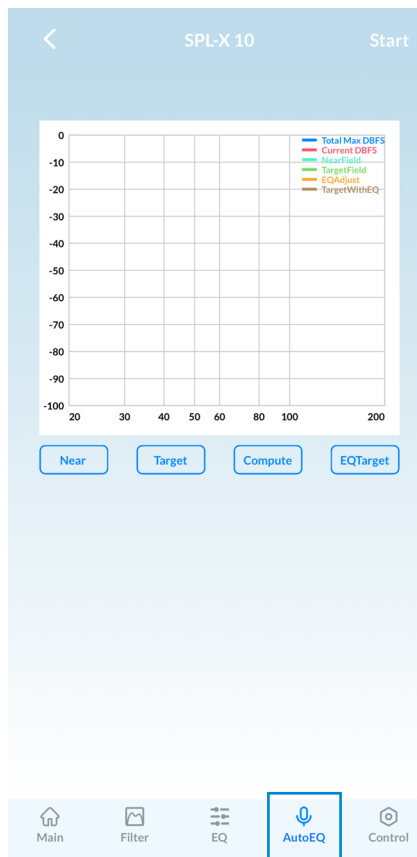


## Auto EQ

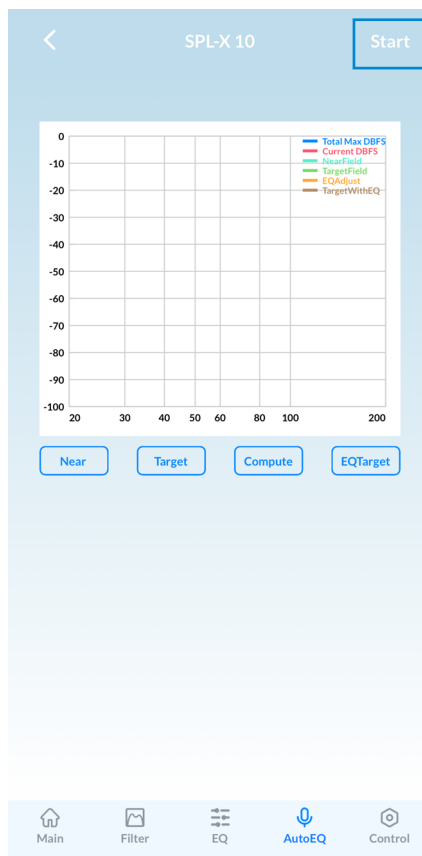
Auto EQ is used to compensate and correct acoustic room anomalies that can cause inferior bass performance.

Auto EQ takes a series of measurements, makes complex calculations, and applies those acoustic corrections - all from the comfort of your listening area.

1. To initiate the Auto EQ process, press the “AutoEQ” button in the lower menu, it will appear in blue when active. The app screen will show three curves on the graph, original, corrected and target curve.



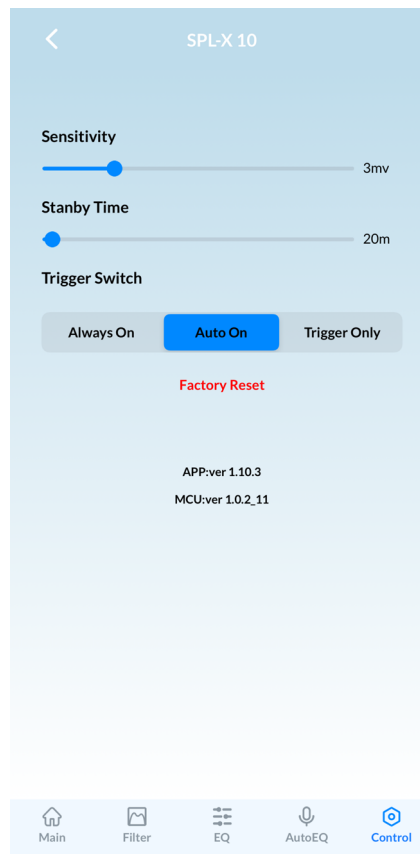
2. Connect the measurement microphone with your mobile device. Place the measurement microphone approximately 50 cm (20 inches) away from the subwoofer. The microphone should be pointed upward, not directly at the subwoofer. Press the **START** button. The subwoofer will now perform a sweep, measuring the frequency response. This initial measurement generates the target curve (yellow), which is also visible in the app.
3. Move the MIC to the listening position facing the speaker. Hit the "Start" Button, now the SPL-X is running several test tone sweeps and automatically setting the internal DSP to have the room correction applied.



## Standby Mode

The Input Sensitivity controls the minimum input level at which the subwoofer wakes from standby mode or enters standby mode.

Similarly, the standby time setting allows you to adjust the duration after which the subwoofer will go into standby mode if no signal is detected. This helps prevent unwanted shutdowns during home theater use, ensuring the subwoofer remains ready for action during quiet scenes.

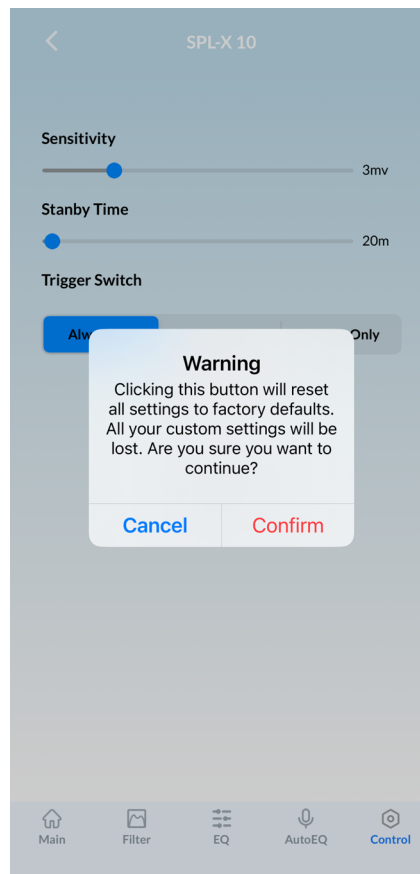


## EQ- and Factory Reset

The corrected Auto-EQ curve, stored in the subwoofer's DSP, can be reset to the neutral setting through a Factory Reset.

### Factory Reset (App)

This process is performed in the app. When the subwoofer is connected to the app, go to the Control section and simply press the Factory Reset prompt. Confirm the process, and the reset will be completed, returning the subwoofer to its neutral default setting.

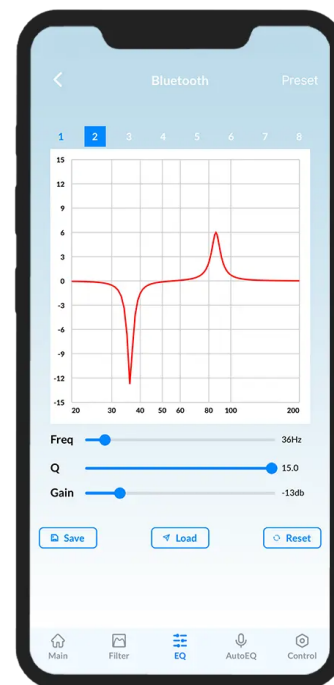


### Factory Reset (Subwoofer)

This process can also be carried out directly on the rear panel of the subwoofer. Two reset options are available:

- Press and hold the reset button for 5 seconds: Deletes only the stored EQ settings.
- Press and hold the reset button for 10 seconds: Performs a full factory reset and restores the device to its factory default settings.





**Velodyne Acoustics GmbH**  
Alsterkrugchaussee 435  
22335 Hamburg  
Germany