Velodyne MiniVee X High Performance Subwoofer User Manual

Contents

Velodyne MiniVee X High Performance Subwoofer

Masters of low frequencies

Velodyne Acoustics has been pioneering the development of subwoofer technologies for over 40 years. No other manufacturer holds as many patents in subwoofer engineering and each of these patents is dedicated to achieving the perfect low-frequency reproduction for music, games, and movies.

What‘s in the box

- 1x MiniVee X Subwoofer
- 1x Extra heavy-duty, high-current 2 m power cord
- 1x Quick Start Guide
- 1x External Calibrated Microphone,
- 5 m cable with 3,5 mm minjack
    - After purchase, please check if the delivered subwoofer is complete and undamaged. If the unit is damaged, do not use the item and contact our service department.
    - Please keep the original packaging (including foam inlays) during the warranty period.

Thank you for purchasing a Velodyne Acoustics subwoofer!

Our passion for powerful, low-distortion bass is the driving force behind our products. You will enjoy this subwoofer in a timelessly beautiful industrial design with lots of technical finesse for a long time. We‘re excited to bring the Velodyne Acoustics sound experience into your home. The world of music and movies is becoming more and more demanding, and a premium subwoofer is essential to truly enjoy the whole experience. At Velodyne Acoustics, we understand this essential need. As a globally renowned manufacturer of superior subwoofers, we proudly present our latest creation: the MiniVee X. The MiniVee X is far more than a compact subwoofer – it embodies the essence of innovation and quality. With its compact dimensions, powerful performance, minimal distortion, and app control, it sets new standards for an exceptional sound experience. As the Velodyne Acoustics

development team decided to revise the original MiniVee, it became clear that a revolution in design was appropriate. Thus, the MiniVee X was born to redefine the boundaries of sound in a compact package.

IMPORTANT SAFETY INSTRUCTIONS

Caution
To reduce the risk of electric shock, do not remove the cover (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel. The lightning flash with the arrowhead symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the subwoofer.

1. **Read Instructions —** All safety and operating instructions should be read before the product is operated.
2. **Retain Instructions —** The safety and operating instructions should be retained for future reference.
3. **Heed Warnings —** All warnings on the product and in the operating instructions should be adhered to.
4. **Follow Instructions —** All operating and use instructions should be followed.
5. **Water and Moisture —** The product should not be used near water — for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or the like.
6. **Carts and Stands —** The product should be used only with a cart or stand recommended by the manufacturer.
7. **Wall or Ceiling Mounting —** The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation —** The product should be situated so that its location or position does not interfere with its proper ventilation. For example, the product should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Power —** The mains plug is used as a disconnect device, the disconnect device shall remain readily operable.
10. **Temperature —** The equipment shall be used at a maximum of 35 degrees C ambient temperature.
11. **Earth —** This equipment must be supplied from a power system providing a PROTECTIVE EARTH Connection and having a neutral connection, which can be reliably identified.
12. **Heat —** The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products that produce heat.
13. **Power Sources —** The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
14. **Grounding or Polarization —** This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not bypass the safety purpose of the polarized plug.
15. **Power-Cord Protection —** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point at which they exit from the product.
16. **Cleaning —** The product should be cleaned only as recommended by the manufacturer.
17. **Non-use Periods —** The power cord of the product should be unplugged from the outlet when left unused for a long period.
18. **Object and Liquid Entry —** Care should be taken so that objects do not fall and liquids are not spilled onto the enclosure.

19. **Damage Requiring Service —** The product should be serviced by qualified service personnel when:
    - **a.** The power supply cord or plug has been damaged.
    - **b.** Objects have fallen or liquid has been spilled into the product.
    - **c.** The product has been exposed to rain.
    - **d.** The product does not appear to operate normally or exhibits a marked change in performance.
    - **e.** The product has been dropped or damaged.
20. **Servicing —** The user should not attempt to service the product beyond what is described in the operating instructions. All other servicing should be referred to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
21. **Lightning** — For added protection for the product during a lightning storm or when it is left unattended and unused for long periods, unplug it from the wall outlet.
22. **Overloading** — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
23. **Attachments** — Only use attachments and accessories specified by the manufacturer.
24. **Voltage** — Ensure that the subwoofer is only connected to the rated source voltage. Do not connect the 120-volt version to 220 Volts or vice-versa. This will result in damage to the subwoofer and possible injury to the user.

CAUTION: To prevent electrical shock, match the wide blade of the plug to the wide slot, fully inserted.

Congratulations on purchasing your Velodyne Acoustics MiniVee X subwoofer. This subwoofer represents state-of-the-art audio and will provide you with years of listening pleasure if properly used. Please read and follow this instruction manual to ensure safe and proper connections and operation. Please note the following key points during installation to ensure your physical safety, as well as the longevity of your subwoofer.

CautionB Please observe the following instructions to ensure safe and proper system operation.

Note:

- Do not leave the unit in direct sunlight or use it in high-humidity environments!
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- The distance between the user and products should be no less than 20cm.

Warning! To prevent fire or shock hazards, do not expose this equipment to rain or moisture. To avoid electrical shock, do not open the speaker enclosure or amp chassis cover. Please observe all warnings on the equipment itself. There are no user-serviceable parts inside. Please refer all service questions to your authorized Velodyne Acoustics dealer or distributor.

Before Installation:

Be sure to unpack the system carefully to avoid damage. This unit is heavy so use caution when lifting or moving to avoid injury. Save the carton and all packaging materials for future use. Packing this unit in any other carton may result in severe damage when shipping. Be sure to record the serial number for future reference. Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment has been tested and found to comply with the limits for a Class B digital device,

according to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used following the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

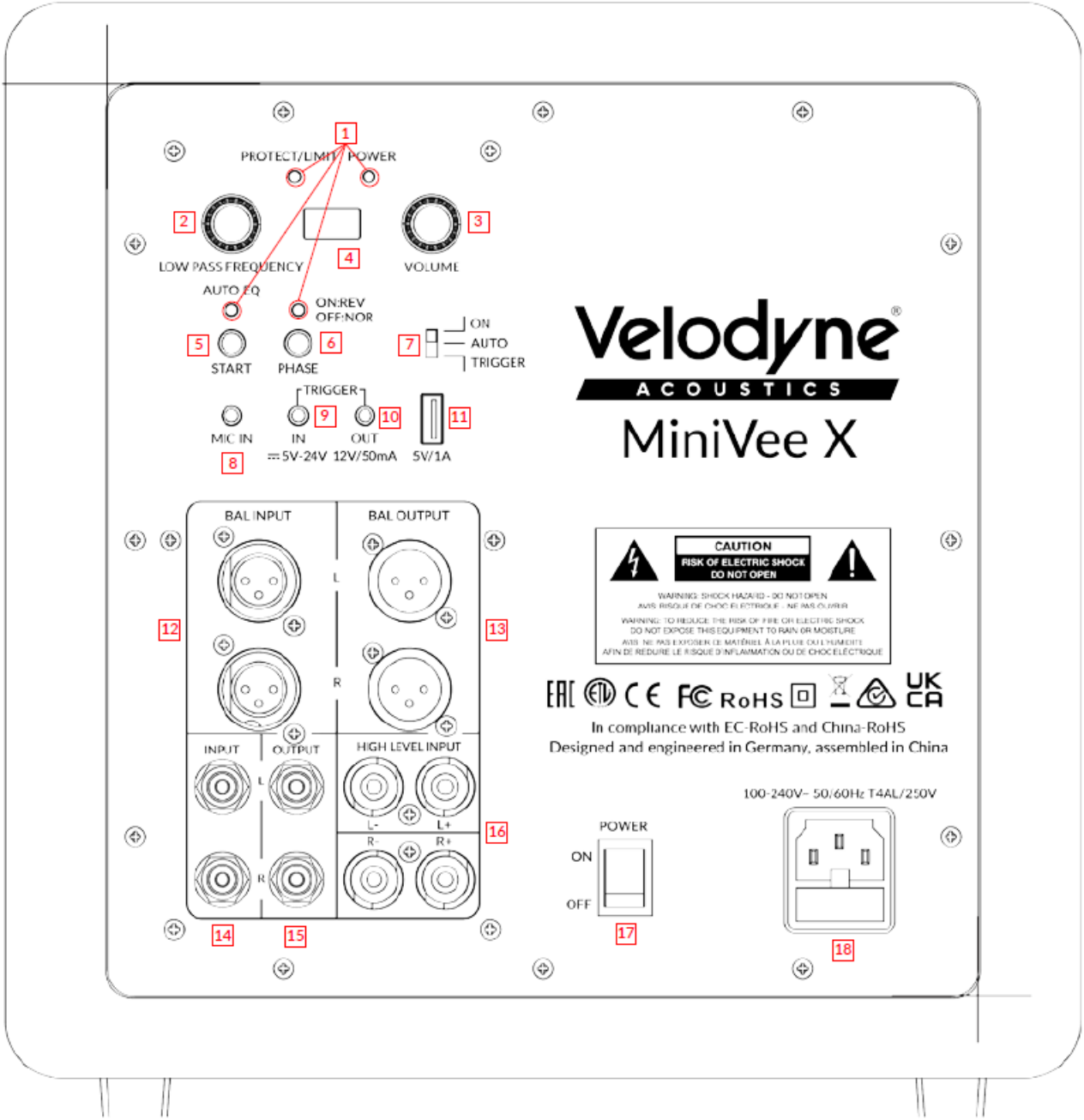
Prepare for Installation:

- The Velodyne Acoustics MiniVee X subwoofer provides several installation options. We suggest reviewing all the installation information below to determine which installation option is best for your system.
- Remember to perform all installation procedures with system power turned off to prevent possible damage.

Placement

- The first step in installing your new MiniVee X subwoofer is to determine where it will be placed in the room. You can use the following guidelines to find the best room placement to maximize your listening enjoyment.
- True subwoofers operate at primarily omnidirectional and extremely low frequencies. Keep in mind that frequency response and output level can be drastically influenced by placement and the acoustic properties of the listening room.
- When using a pair of Velodyne Acoustics subwoofers in 2a –channel stereo, it is preferable to feed each subwoofer with one channel and place each subwoofer near the satellite of the same channel.
- The perfect placement for your subwoofer will depend on room size, furnishings, and other unique variables in your listening space. Finding the best location for your subwoofer will likely require some experimentation. We suggest you use your favorite spot for listening to music or watching movies while experimenting with the location of the subwoofer during setup. Important: It is possible to automatically calibrate the MiniVee X using the supplied microphone and the Velodyne Acoustics AutoEQ SUB App. Regardless of where you install your Velodyne Acoustics subwoofer, it must remain in an upright position. Placing, shipping, or storing your subwoofer in any other position for an extended period may result in damage to the unit. This type of damage is not covered under warranty.
- This subwoofer has electronics built into the cabinet. Because of this, your subwoofer should not be placed next to sources of heat such as furnace registers, radiators, etc. Do not place the unit near sources of excessive moisture, such as evaporative coolers, humidifiers, etc. The power cord should be routed in such a way that it will not be walked on, pinched, or compressed in any way that could result in damaging the insulation or wire.
- Velodyne Acoustics MiniVee X subwoofers are NOT magnetically shielded. Should you find it necessary to use it with an older CRT monitor or TV, keep it at least two feet from the monitor.

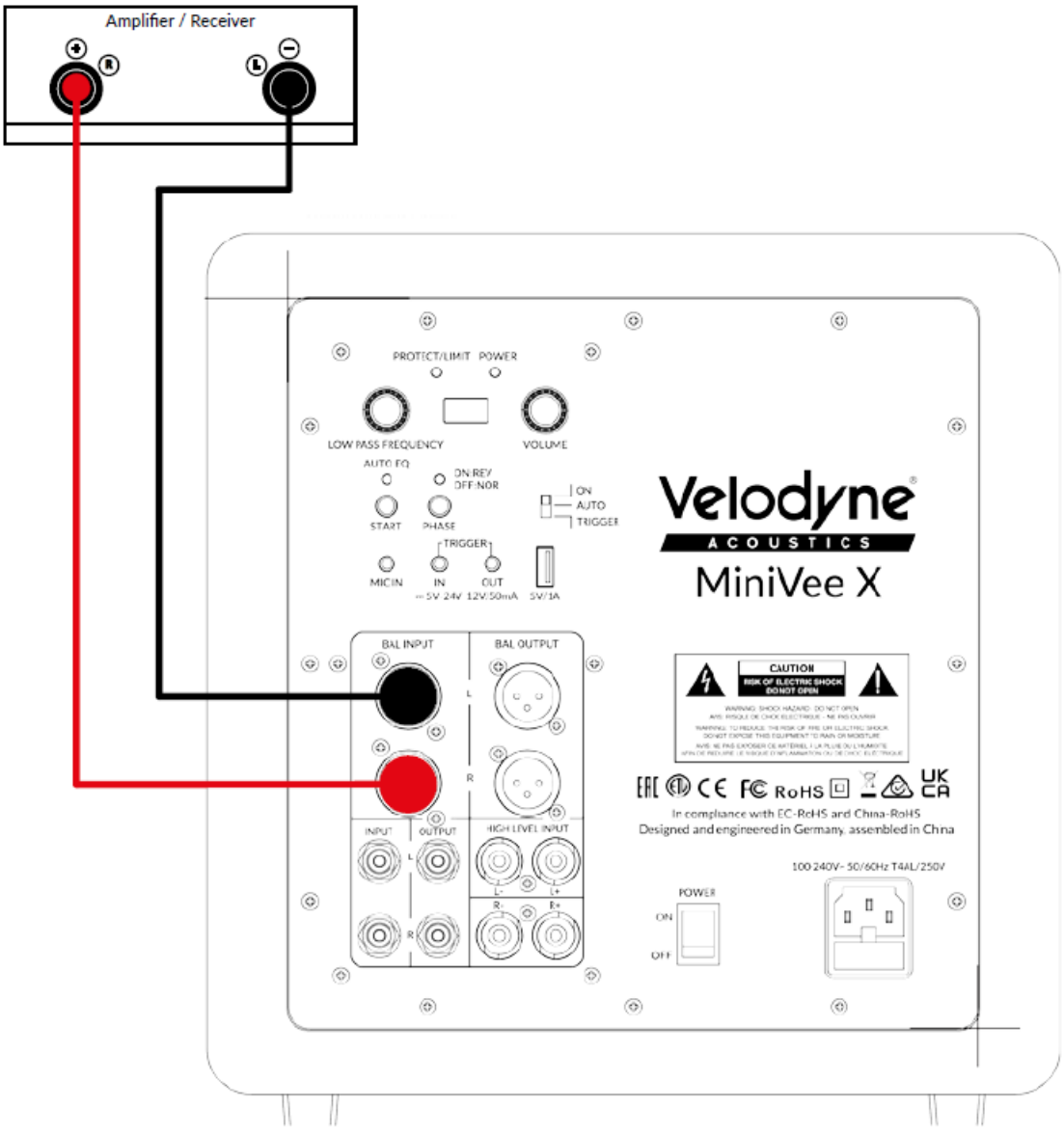
REAR PANEL CONNECTION



1. LED INDICATORS – LED signaling the state of communication with the app.
2. LOW-PASS CROSSOVER – Use this control to select the high-frequency range at which you want to cut the signal to the subwoofer.
3. VOLUME LEVEL CONTROL – Use this control to adjust the output power of the subwoofer.
4. 7 SEGMENT DISPLAY – For volume and crossover frequency.
5. AUTO EQ START BUTTON – Use this button to initiate the auto EQ process.
6. SIGNAL SENSING AUTO TURN ON/OFF BUTTON
7. AUTO POWER/ON/OFF SWITCH
8. 3.5MM MICROPHONE JACK – Use this with the provided microphone for automatic room correction.
9. 12V TRIGGER INPUT – 3,5 mm mini jack
10. TRIGGER OUTPUT WITH 5 SECONDS DELAY – 3,5 mm mini jack
11. 5V / 1A POWER USB SOCKET – To power external Wireless Signal transmitting system Wi-Connect II.
12. XLR / BALANCED INPUT JACKS – Connect these jacks to the XLR OUT jacks of your amplifier.
13. XLR / BALANCED OUTPUT JACKS – Connect these jacks to the XLR IN jacks of an additional subwoofer to achieve linking.

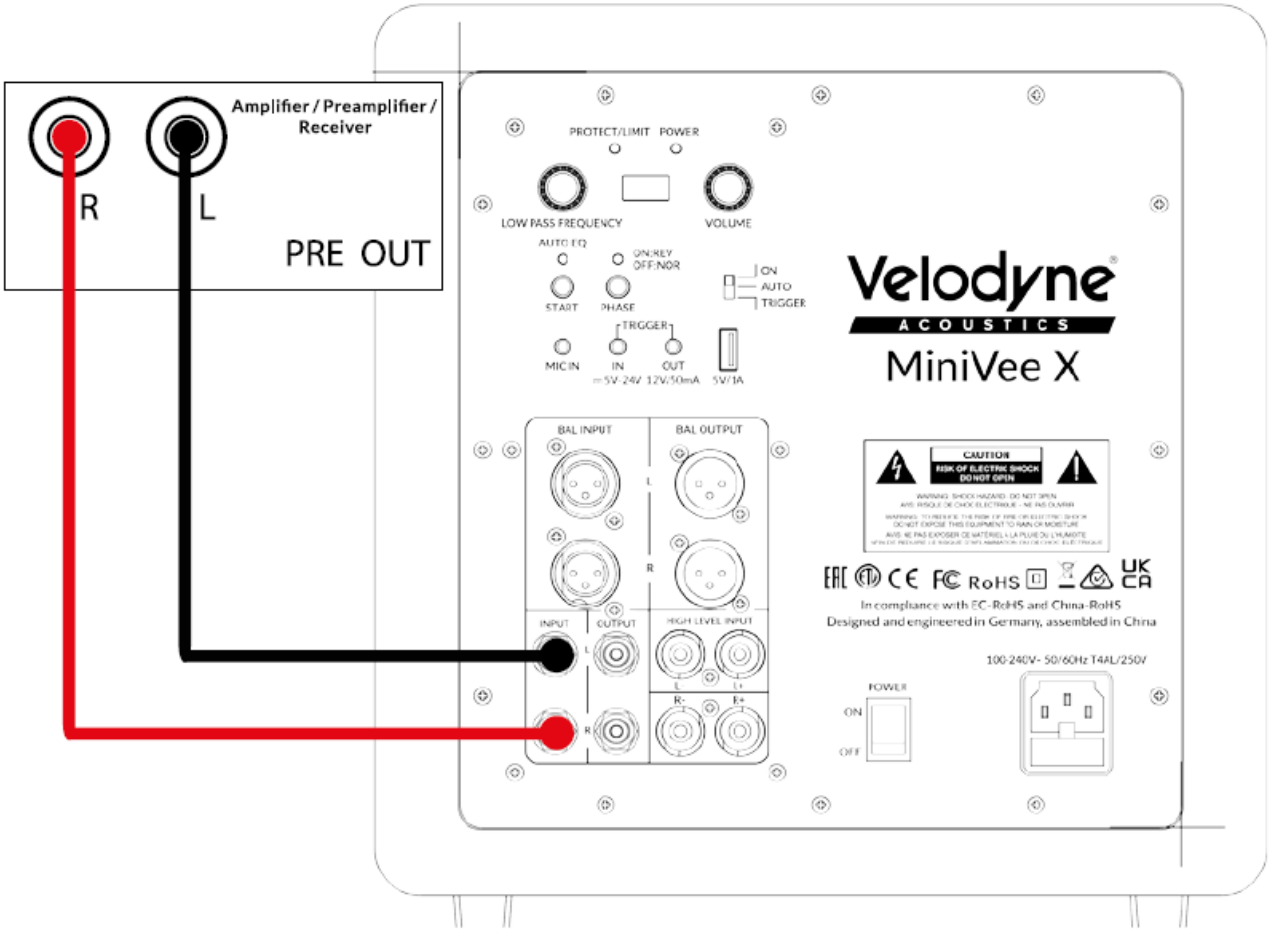
14. LINE / LFE INPUT RCA JACKS – Connect these jacks to the LINE OUT jacks of your amplifier.
15. LINE / LFE OUTPUT RCA JACKS – Connect these jacks to the LFE IN jacks of an additional subwoofer to achieve linking.
16. SPEAKER LEVEL INPUT TERMINALS – Connect these input jacks to the speaker output jacks on your amplifier or receiver.
17. POWER ON/OFF SWITCH – Turns the subwoofer on or off.
18. POWER CONNECTION, FUSE TYPE – T8AL 250 V for AC120 V~60 Hz, T4AL 250 V for AC230 V~50 Hz.

XLR CONNECTION

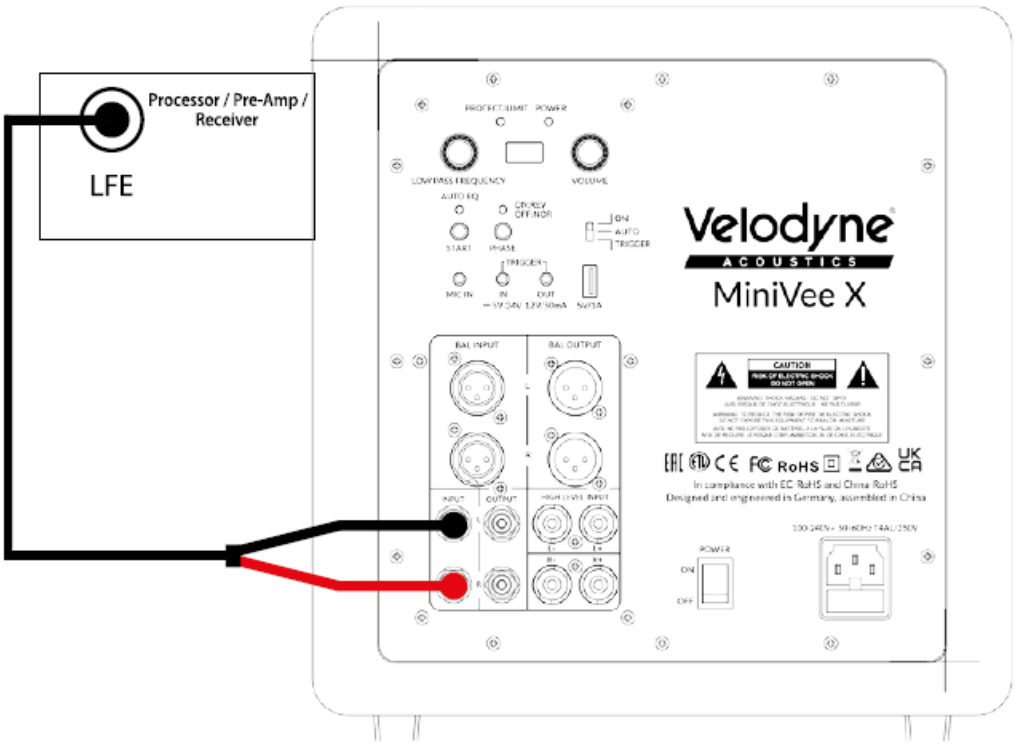


Velodyne Acoustics' flagship subwoofers also have XLR connectors. With long signal paths, this type of connection is less susceptible to interference than standard RCA cables. For this reason, XLR cables are mainly used in studio and stage technology but are now also increasingly finding their way into home theater or hi-fi setups.

STEREO CONNECTION

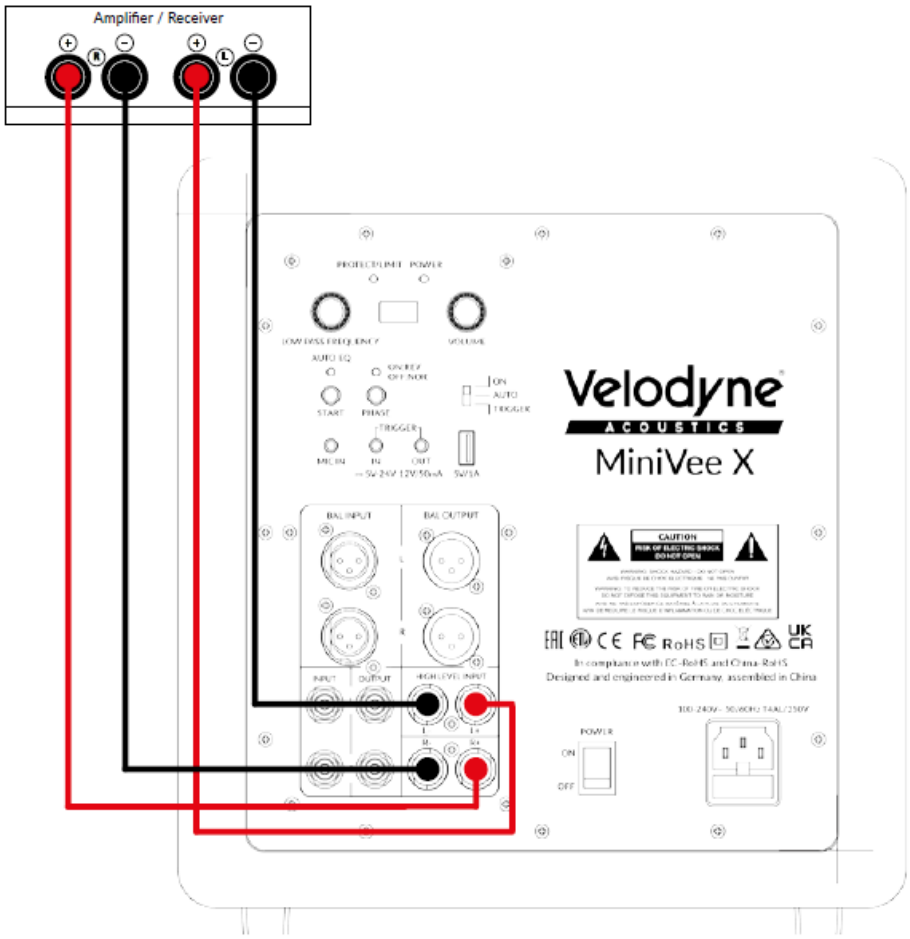


LFE CONNECTION



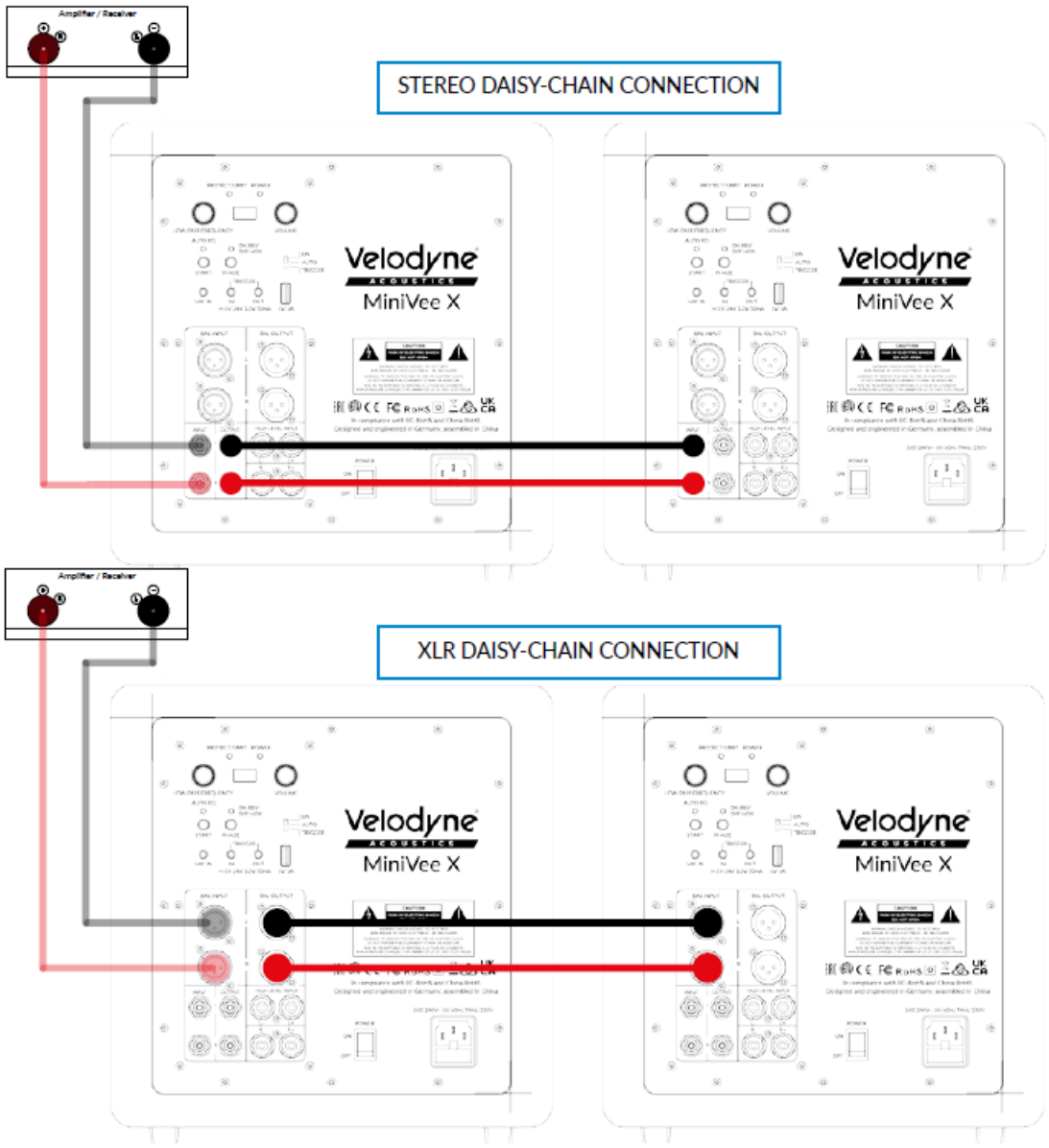
The LFE channel (Low-Frequency Effects) is used in various multi-channel systems such as 5.1, 7.1 or even 3D audio to transmit low tones that cannot be accurately located by the human ear. In most cases, this channel is designed for the limited frequency range of around 20 – 100 Hertz, which also allows for a data-saving transmission. On the AV receiver, it is usually labeled „SW“ for the subwoofer, „Sub Out“ or, as on the MiniVee X subwoofer, „LFE“.

HIGH-LEVEL CONNECTION



Older stereo amplifiers and even some current models do not have an LFE jack or a line connector for RCA plugs. But even these audio devices can be easily connected to a Velodyne Acoustics woofer via speaker terminals. The front speakers of the system are wired in parallel with the amplifier and the subwoofer. With this type of connection, the subwoofer‘s crossover removes all high and mid frequencies, and only bass is reproduced. Also, both channels should be connected because they may contain different bass information that would otherwise be lost during playback.

DAISY-CHAIN CONNECTION



INTERCONNECT CABLES

During installation of your Velodyne Acoustics MiniVee X subwoofer using the line level connections, you should always use shielded RCA cables. There are many high-quality cables available today. It is recommended that you keep the length of the cable as short as possible to avoid any potential noise problems. When using speaker-level connections, use a high-quality speaker cable that mates well with the connectors. Be careful to avoid any loose strands or frayed wires that may result in a short, which could damage your equipment. Be aware that cables of extremely large size are not required due to the low current draw of this type of connection. Please note that extremely large gauge wire may not properly fit in the terminals, resulting in a poor connection and possible short circuits.

CARE OF YOUR SUBWOOFER

- As far as the maintenance of your Velodyne Acoustics subwoofer is concerned, normal dusting or cleaning of the surface for appearance purposes is all that is required. We suggest you avoid any harsh detergents or chemicals when cleaning the cabinet. The finish on the cabinet may become damaged with the use of abrasives, detergents, or cleaning solutions. We highly recommend using only a damp cloth to clean the cabinet.
- Under normal conditions, your subwoofer may remain switched on continuously without any problems. The unit

is equipped with a signal-sensing on/off circuit that will automatically turn on the unit when a signal is present at the inputs and turn off the unit after several minutes when there is no longer any signal at the inputs.

PROTECTION CIRCUITRY

- Your Velodyne Acoustics subwoofer is equipped with circuitry to provide maximum performance with the greatest reliability.

The unit is protected against:

1. Overheating the amplifier.
2. Excessive drop in power line voltage.

If either of the above should happen, you should reduce the volume setting or shut the unit off until normal operating conditions return. You may also want to plug the unit into a different wall outlet, as dropping the power line voltage will be most noticeable under strenuous conditions and may result in the unit shutting down intermittently.

TROUBLESHOOTING AND SERVICE

Please re-check all systems and verify your connections and settings before contacting an authorized service center. Following is a simple troubleshooting guide to assist you. Verify that the unit is plugged in and power outlet used is active.

1. Is the power switch on?
2. Is the unit receiving an input signal from your source?
3. Have all controls (volume, crossover, phase, etc.) been properly set?
4. If the unit has been running at high levels, one of the protection circuits may be engaged. Has the amplifier overheated?
5. Make sure the speaker wires are fully inserted into the spring clip connectors and that no wires are touching from one terminal to another.

If the protection circuitry is active, the unit may cycle on and off until operating parameters return to normal. Under more serious conditions, the unit may shut off completely. Upon cooling, the normal operation should return. However, you may be required to turn the power off and then on again to reset the unit before it will operate normally again.

The following conditions require service by a qualified technician:

1. The power cord has become damaged or appears damaged.
2. The unit does not appear to operate normally or exhibit a marked change in performance.
3. The unit has been exposed to water.
4. Some part of the cabinet or circuitry is physically damaged.

SERVICE

- **What is the crossover frequency and how is it set?**

- The crossover frequency is set to a specific frequency depending on the speaker system. Often 80 Hertz is recommended to start, allowing the subwoofer to reproduce frequencies below this level while filtering out higher frequencies. Most subwoofer crossovers are user-adjustable, so you can find an e xact match for your system at home. The goal of the setting is a seamless transition between the main speakers and the sub woofer, which means that bass can no long er be located in the room at best. If you can hear exactly that the bass is coming from the direction of the subwoofer when listening to music or watching movies, the setting needs to be adjusted. If the main speakers of the system are full-grown 3-way floor-standing speakers with large woofers, it is also worth trying out a frequency of 60 Hertz. If, on the other hand, they are small satellites or bookshelf speakers, a setting of 100 Hertz and more may make sense. At this point, it is importan t to experiment a lot with familiar music and film clips – because only repeated listening will lead to a perfect result. Modern AV receivers and preamplifiers also have integrated crossovers. This is usually less common with stereo receivers. If a receiver is used in the living r oom or home theater, it is advisable t o set the crossover frequency to the highest frequency.

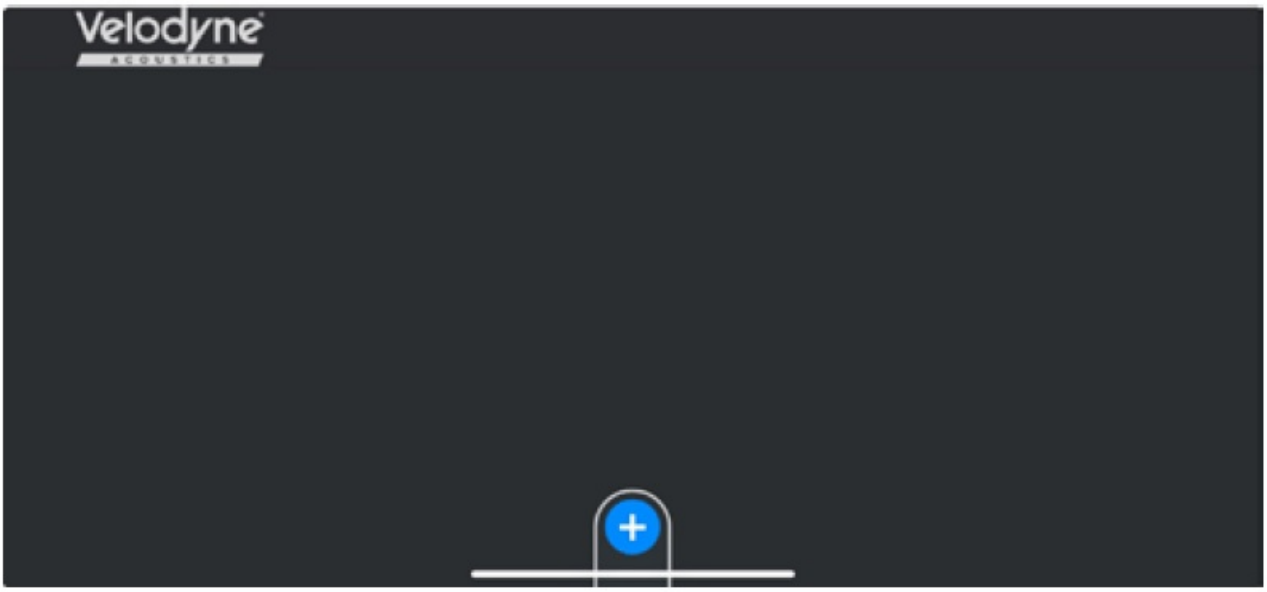
- **How do you set the phase on the subwoofer correctly?**
  - A phase control allows the phase t o be adjusted continuously within a range of 0 degrees to 180 degrees. It is helpful when the subwoofer and the floor-standing loudspeaker are not positioned at the same distance from the listening position. This is because the reproduction of low tones from the subwoofer and the m ain speakers can cause cancellation in the bass r range because the waves neutralize each other. With the phase control, it is thus possible to align the sound waves from different sources. This setting is best made by ear from the later reference position.

VELODYNE ACOUSTICS AutoEQ SUB APP

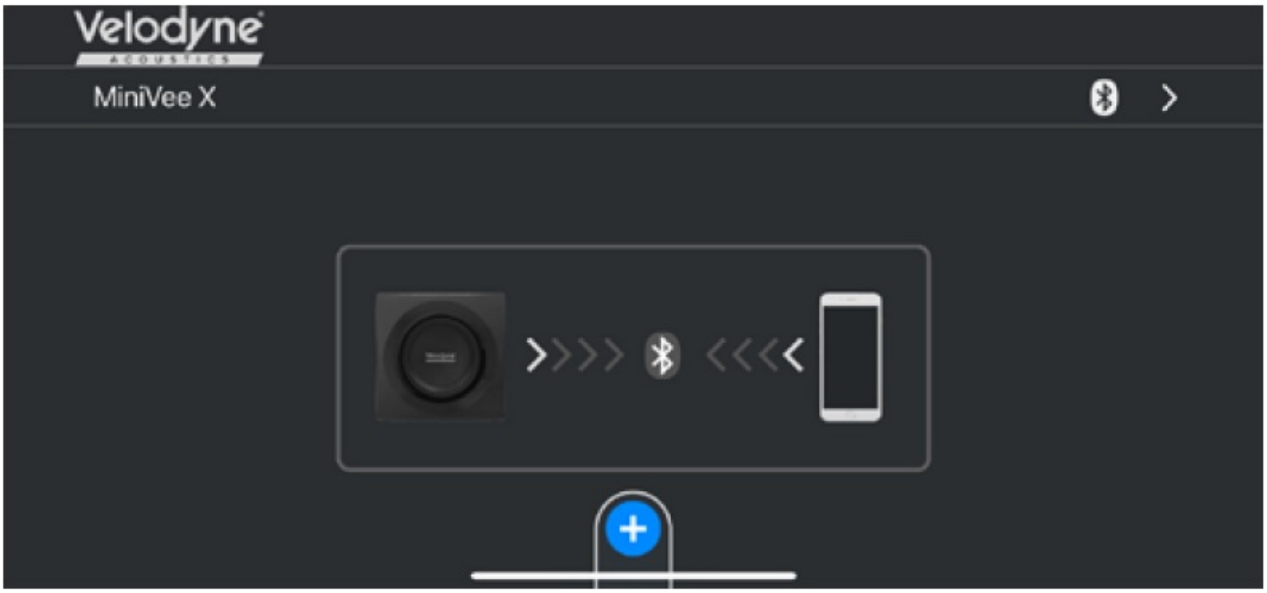
The Velodyne Acoustics AutoEQ SUB smartphone app allows you to set up and configure your MiniVee X subwoofer in the comfort of your seating position. Download the app from the Apple App Store or Google Play Store. Adjustments like volume, crossover frequency phase, etc. as well as the Auto EQ function,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

Connect to your subwoofer

1. Ensure that the subwoofer is powered ON and the status light is blue.
2. Turn on the BT functionality on your smartphone
3. Launch the Sub Control app and push the + on the home screen to add a new subwoofer



4. The app is starting scanning for a new device:

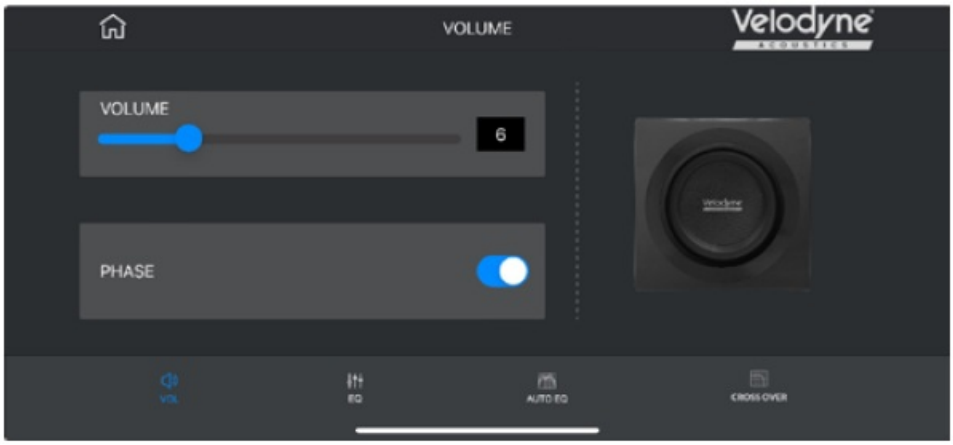


5. On your app the new subwoofer will appear, hit “Add” to confirm.

6. Repeat steps 1-5 for additional Velodyne Acoustics MiniVee X subwoofers or Velodyne Acoustics SC 750 or SC 1500 rack mount subwoofer amplifiers.
7. Your subwoofer is now connected and can be controlled from the AutoEQ SUB smartphone app.

General adjustments

1. Volume Control – adjust the subwoofer level by sliding the control dot from 0 to 30

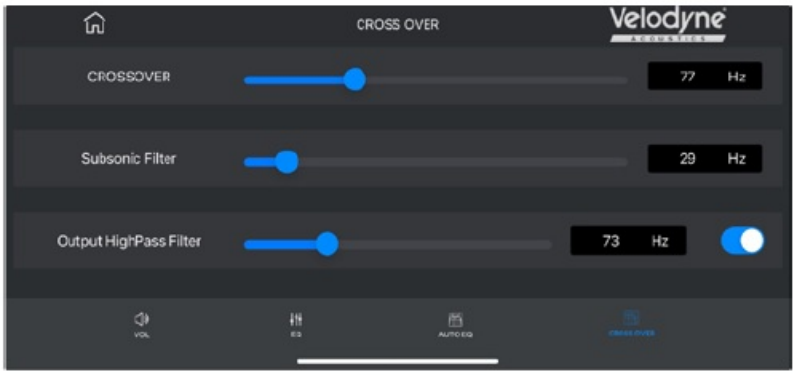


2. Volume Control – adjust the subwoofer level by sliding the control dot from 0 to 30

3. Phase – 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.

Crossover

1. Hit the “CROSSOVER” button in the bottom menu to switch to crossover settings:

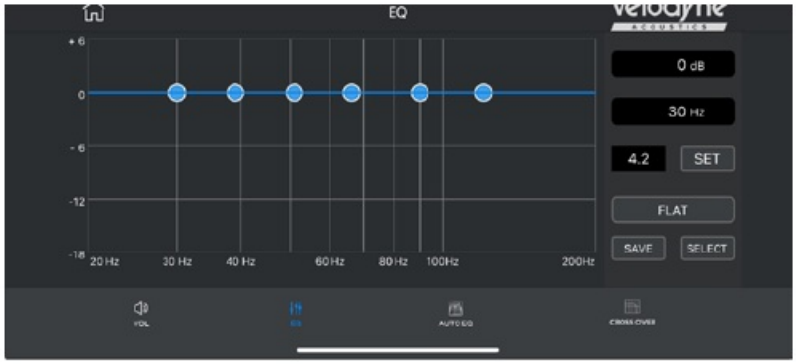


2. Crossover – Selects the low pass filter frequency and it is adjustable from 30 Hz to 200 Hz in 1 Hz steps, the changes are displayed on the back panel display of your MiniVee X subwoofer simultaneously. When changing the crossover setting using the knob of the back panel will change the low pass frequency in 5 Hz steps.
3. Subsonic Filter – the integrated subsonic high-pass filter is adjustable in 1 Hz steps from 24 Hz to 80 Hz and

operates with a slope of 24db/octave to prevent distortion or excessive cone movement that could occur due to low-frequency signals below the subsonic filter frequency.

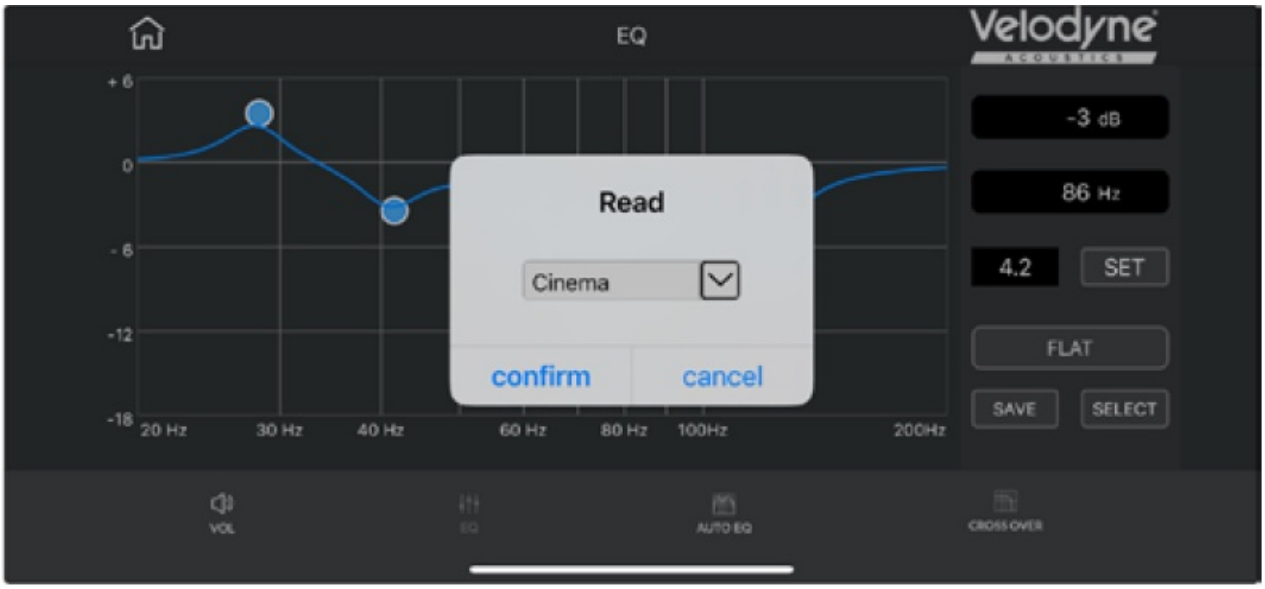
4. Output HighPass Filter switch – This switch activates the Output high-pass filter if using the Stereo RCA or XLR connectors on the MiniVee X back panel to connect to your main loudspeaker amplifier with a high-pass filter to get a smooth transition from Subwoofer low-pass filter frequency and main loudspeaker. If the switch is deactivated, the output high-pass filter slider on the app is greyed out and not active, now the Stereo RCA and XLR output are transmitting a complete input signal to the daisy chain to an additional subwoofer.
5. Output High Pass Filter – Adjusts the high pass crossover frequency from 30 Hz to 200 Hz in 1 Hz steps with a 12 dB/oct.

Manual EQ



1. Manual EQ – Allows you to manually adjust the Frequency, Gain, and Q of 6 independent PEQs.
2. Flat button – If you hit this button all PEQ are set into neutral. No active equalizing.
3. By hitting any blue dot on the frequency curve you are selecting one individual Equalizer, they can be individually adjusted from 20 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 6 individual PEQs 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
5. Preset – You can save up to 6 different EQ settings by hitting the save button, then selecting a preset on the drop-down menu and renaming each individual preset, i.e. Cinema/Game/Jazz/Classic
6. Select Preset – By hitting the “SELECT” button, you can choose one of your presets by using the drop-down menu, followed by the “confirm” button, the preset will be uploaded into MiniVee X subwoofer DSP.



Using Auto EQ

Auto EQ is used to compensate for 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 start the Auto EQ process, press the “Auto EQ” 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. Make sure that the Auto EQ microphone is connected to the back panel of the MiniVee X Subwoofer, placed on the listening position facing upwards, then press the “Scan” button. After one sweep you will see the yellow line on the graph showing the measured room curve:

3. Hit the “Start” Button, now the MiniVee X is run several test tone sweeps and automatically setting the internal DSP to have the room correction applied.
    - **Note:** You can also start this automatic room correction by pressing the physical button on the MiniVee X back panel without using the AutoEQ SUB app.

SPECIFICATIONS

MiniVee X SUBWOOFER SPECS

- Amplifier power output 350 W RMS @ 0,5% THD, 600 W @ 2% THD, 800 W maximal
- **Frequency Response**
    - 32 Hz- 185 Hz +/-3 dB in average in-room response
    - 26 Hz- 220 Hz +/-6 dB in average in-room response
- Adjustable 30 to 200 Hz low-pass crossover with a 12 d B/octave slope
- Unbalanced Stereo/LFE RCA input
- Unbalanced Stereo/LFE RCA output for easy daisy chain
- Balanced Stereo/LFE XLR Input
- Balanced Stereo/LFE XLR output for easy daisy chain
- Speaker Level Stereo Input binding posts
- Signal sensing auto turn on/off
- Auto power/on/off switch
- Auto EQ process start button
- 7-segment display for volume and crossover frequency
- The subwoofer Volume adjustable on the back panel
- Crossover Frequency adjustable on the back panel via rotary encoder in 5 Hz steps
- Phase control (0° / 180°) on back panel
- 3,5 mm Microphone jack for automatic room correction
- 3,5 mm mini jack 12 V trigger input
- 3,5 mm mini jack trigger output with 5 seconds delay
- 5 V / 1 A Power USB socket to power external Wireless Signal transmitting system Wi-Connect II
- Blue (power on) / Red (power standby) mode indicator LED
- RoHS-compliant, lead-free construction, world-wide safety certifications
- Green 0.5-watt low standby power consumption
    - **Dimensions (H/W/D):** 30 cm x 29 cm x 29 cm

- **Shipping Dimensions (H/W/D):** 43 cm x 41 cm x 41 cm
- **Weight (unboxed):** 15 kg
- **Shipping Weight:** 20 kg

DRIVER SPECS

- All-new proprietary 8” long-throw driver with high-precision tuned overhung motor configuration with 8” passive radiator
- 22 mm Xmax mech precision aligned excursion
- 2” diameter Voice Coil with high-current 4-layer high-purity copper wire windings
- High-grade oversized Ferrite magnet motor
- 4“ composite cotton-poly extreme excursion linear spider
- Heavy-duty stamped steel basket, double-vented
- Nitrile rubber extreme-excursion surround
- Lightweight flat carbon fiber cone for enhanced sensitivity and transient response

AMPLIFIER SPECS

- Multipower automatic switching from 100 V – 240 V
- High-resolution Analog Devices Audio ADAU 1761 DSP
- Up to 800 W class D power output
- Wide signal input voltage bandwidth is compliant for consumer and pro audio applications up to 4V line level input.
- High efficiency Switching power supply with 2 x 30 A 650 V MOSFET, for high efficiency.
- Cool-running Class D amplifier switching topology with four massive 40 A / 220 V MOSFETs
- Input impedance 16 kOhm (unbalanced RCA)
- Input impedance 20 kOhm (speaker level)

APP CONTROL

- App is able to control several MiniVee X or SC sub amps via Bluetooth connection
- Automatic room correction using an external Microphone
- Volume control synchronized with display on back panel
- X-over control from 30-200 Hz synchronized is displayed on the back-panel display. Adjustable in 1 Hz steps
- 5 band parametric EQ, 20-200 Hz, Gain +6 dB/-18 dB, Q factor 0.1-15
- Phase switch
- Subsonic filter frequency adjustment from 24 Hz – 200 Hz
- High Pass filter adjustment for XLR and R CA output from 30 Hz – 200 HZ
- Output High Pass filter overrun switch, to get full signal on output to daisy chain several subwoofers.
- 6 individual presets, renamable

ACCESSORIES

- US and Euro/Schuko high current 2 m power cords

- External calibrated microphone with 5 m cable with 3,5 mm minijack
- Quick start guide

DECLARATION OF CONFORMITY

EU – DECLARATION OF CONFORMITY

- We, Velodyne Acoustics GmbH whose registered office is situated at
- Alsterkrugchaussee 435, 22335 Hamburg, Germany declare under our sole responsibility that the product
- MiniVee X complies with the EU EC council directive of 2014/30/EU, in pursuance of which the following standards have been applied:
- EN 55032:2015/A11:2020
- EN 55035:2017/A11:2020
- EN IEC 61000-3-2:2019/A1:2021
- EN 61000-3-3:2013/A2:2021 and complies with the EU General Product Safety 2001/95/EC, in pursuance of which the following standard has been applied:
- EN IEC 62368-1:2020 + A11:2020.
- This declaration attests that the manufacturing process quality control and product documentation accord with the need t o assure continued compliance.
- The attention of the user is drawn to any special measures regarding the use of this equipment that may be detailed in the o wner’s manual.
- Mansour Mamaghani
- CEO Velodyne Acoustics GmbH

CONTACT INFORMATION

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Documents / Resources

	**Velodyne MiniVee X High Performance Subwoofer** [pdf] User Manual MiniVee X High Performance Subwoofer, MiniVee X, High Performance Subwoofer, Performanc e Subwoofer, Subwoofer

References

- User Manual