

Velodyne[®]

ACOUSTICS

MiniVee X

HIGH PERFORMANCE SUBWOOFER

INFORMATION



WE ARE THE SUBWOOFER SPECIALISTS.

Velodyne Acoustics was founded under this guiding principle in 1983.

And until today we have remained true to this credo: Velodyne Acoustics delivers a unique low-frequency foundation that really brings music, games and movies to life.

As a subwoofer specialist, we have dedicated our entire research and development work to this goal. Today, we are one of the subwoofer manufacturers that hold the most patents in this segment.



THIS IS THE NEW MiniVee X

Introduction

Music and film have never been so demanding, subwoofers are increasingly becoming a necessity for reproducing deeper sounds, often at high volume. However, a high-quality subwoofer should add much more than just loudness and depth. Velodyne Acoustics, builders of the world's number one rated subwoofers for more than 40 years, proudly introduces a new Bluetooth APP-controlled, very compact subwoofer with ultra-high output, and low distortion - the all-new MiniVee X. When it came time to upgrade the original MiniVee, the Velodyne Acoustics engineering team wanted to be sensitive to where research and development had brought Velodyne Acoustics over the past years. The decision was made that a fresh look at the MiniVee was in order, so they approached the MiniVee X development if it were an all-new Subwoofer.

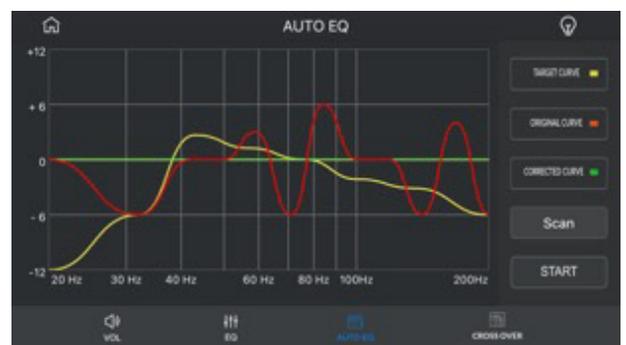
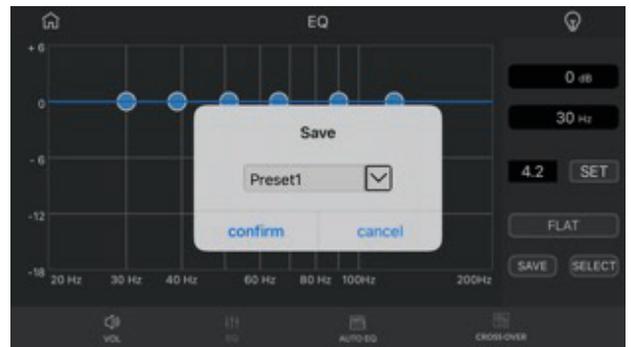
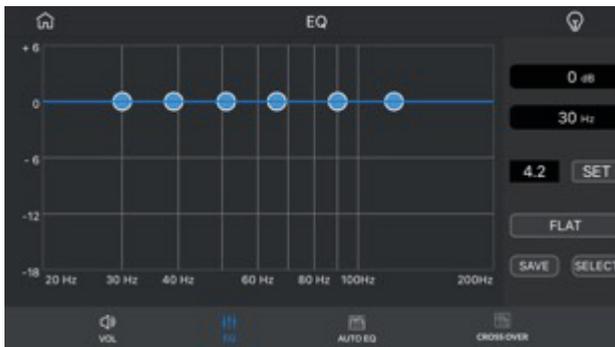
New Acoustic Design with state-of-the-Art Acoustic driver configuration

As always preferred by Velodyne Acoustics, the MiniVee X subwoofer also operates in a closed cabinet design, thus achieving an unparalleled precision in bass reproduction. The acoustically optimized housing made of MDF with additional bracings inside is designed to eliminate any disturbing resonances are expected from the housing itself. The two completely redesigned 8" drivers (one active, one passive) are arranged opposite each other in a force-canceling design. This special driver arrangement ensures minimal cabinet movement, resulting in clean and fast bass reproduction.

The housing is finished in a high-gloss lacquer.

APP Controlled automatic DSP Room Correction

Velodyne Acoustics, as a pioneer in automatic room correction since more than 10 years takes the user interface to the next level. Complicated and professional room tuning is now possible through a mobile app that allows the user to adjust the MiniVee X subwoofer to the exact room in which it is placed. This new designed Velodyne Acoustics Auto EQ App is available at the Apple Store or Google Play Store. To optimize sound and clarity of a home theater or two channel system, the subwoofer must be tuned properly to its environment. Through an automated room correction process, you get the optimal performance that you deserve and achieve the maximum amount of SPL with a more linear response that is tailored to your listening preferences.





800 W advanced Class D Amplification

MiniVee X subwoofers combine patented core technologies from the subwoofer experts at Velodyne Acoustics. High level connectors and RCA and XLR inputs and outputs complete newly developed DSP-controlled, effective and cool running Class D amplifier board with up to 800 W MOSFET power amplifier. Like all Velodyne Acoustics subwoofers, the MiniVee X features anti-clipping and overheating circuitry to prevent distortion due to amplifier clipping

Driver Technology

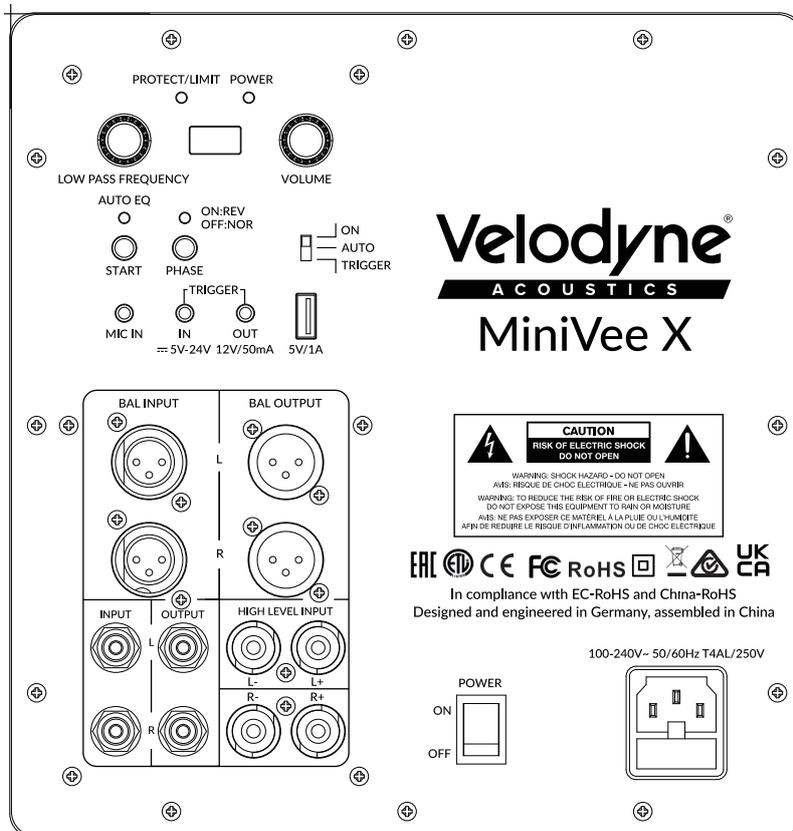
High purity 2" copper voice coil with special 4-layer winding to minimize distortion and power compression with maximum heat dissipation, linearity and tuned magnetics for precise high excursion. The double-coated carbon fiber voice coil former provides excellent stiffness with a high thermal load capacity. To ensure optimal heat dissipation at the high power output, the motor is double ventilated for maximum SPL.

Connectivity

As with all Velodyne Acoustics subwoofers, the MiniVee X offers a stereo high level input for direct connection to the loudspeaker output of the amplifier, this is the preferred connection method for many high-end customers, as it ensures that the subwoofer receives the exact same stereo signal as the main loudspeakers, thus ensuring that the bass is transmitted exactly the same way.

The most common way to connect a subwoofer to a stereo or home theater system is the stereo or LFE connection via RCA or XLR jacks, for easy daisy chain of the signal to another subwoofer MiniVee X series is also equipped with a Stereo / LFE RCA and XLR output. In addition, the MiniVee X offers a high-pass filter on the RCA or XLR output that can be switched on and adjusted via app, if the output for the main speaker is freed from the respective low-bass signals and can play much better.

Since today many home theater receivers and processors have a trigger output for automatic switching on and off, of accessories components, we have also built in a suitable 3.5 mm minijack input and a slightly delayed 12 V trigger output, if multiple devices are daisy chained, power line is not overload through multiple devices switching on at the same time. To operate the optional Velodyne Acoustics Wi Connect System II for wireless signal transmission directly through the subwoofer, we also have a 5 V / 1 A USB power output.



Subwoofer Specs

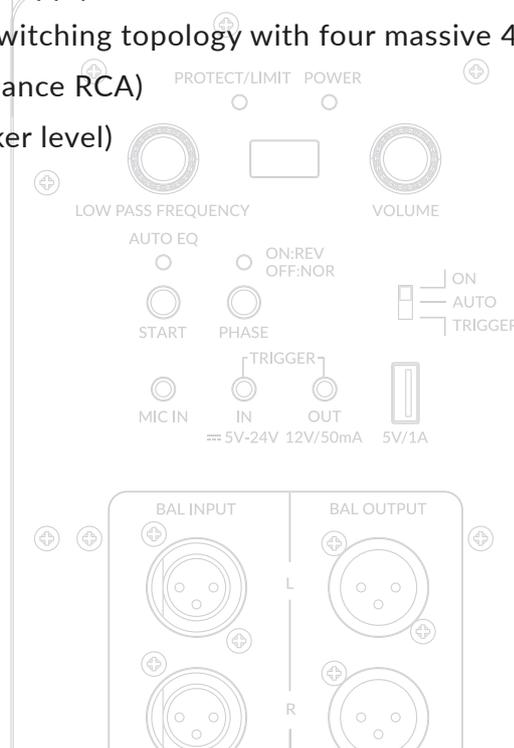
- Amplifier power output 350W RMS @ 0,5% THD, 600 W @ 2% THD, 800 W maximal
- Frequency Response
- 32 Hz- 185 Hz +/-3 dB in average in room response
- 26 Hz- 220 Hz +/-6 dB in average in room response
- Adjustable 30 to 200 Hz low-pass crossover with a 12 dB/octave slope
- Unbalanced Stereo/LFE RCA input
- 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
- Subwoofer Volume adjustable on back panel
- Crossover Frequency adjustable on 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 compliant for consumer and pro audio applications up to 4 V 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 MOSFET's
- Input impedance 16 kohm (unbalance RCA)
- Input impedance 20 kohm (speaker level)



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APP control

- App is able to control several MiniVee X or SC sub amps via Bluetooth connection
- Automatic room correction using external Microphone.
- Volume Control synchronized with display on Backpanel
- X-over control from 30-200 Hz synchronized displayed on Backpanel 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 RCA output from 30 Hz – 200 HZ
- Output High Pass filter overrun switch, to get full signal on output to daisy chain several subwoofer.
- 6 individual presets, renamable

Accessoires

- US and Euro/Schuko high current 2 m power cords
- External Calibrated Microphone with 5 m cable with 3,5 mm minjack
- Quick Start Guide

