

# NOTE TO REVIEWERS

Thank you for taking the time to listen to and evaluate the VZR Model One.

You are one of a very select group of Reviewers who is getting access to an early, pre-production sample of the VZR Model One.

While the core functionality of your sample accurately represents mechanically and acoustically what we will be delivering to consumers when we launch later this spring, there are some differences between the sample you are reviewing and our mass-production VZR Model One units.

Specifically:

- The cable lengths will be optimized for better placement of the Inline Mic module. The cables from the ear cups to the Inline Mic module will be 12" and the entire cable will remain 55" long.
- The final length of the included extension cable will be 1 meter.
- The Inline Mic module will only feature a mute switch; there will be no remote functionality in the final production units.
- The final production units will have improved fit and retention for the Boom Mic's foam tip and the Boom Mic's boom stiffness will be increased slightly to better hold its position. The seating and fit of Boom Mic jack will also be improved (ensure the jack is fully plugged into its D-shaped microphone port to avoid interference).
- The final production units will include a custom VZR PC Breakout Cable, rather than the third party cable included with your sample.
- We are improving the comfort, fit and finish of the earpads, so they'll be even more plush, durable and comfortable.
- The final production units will have slightly different surface finishes and some additional graphical detailing, particularly on the headband (like 'L' and 'R').

Again, we appreciate your time and willingness to listen to what we believe is a revolutionary product. And, as good as the pre-production units sound, we are confident that the production units will be even better! Please contact us if you have any questions or concerns.

Thank you and enjoy!

The VZR Team

Issaquah, WA, USA



MODEL ONE

The Audiophile  
Headset for ALL



WINNING SOUND

# INTRODUCTION

Thank you for taking the time to review the VZR Model One.

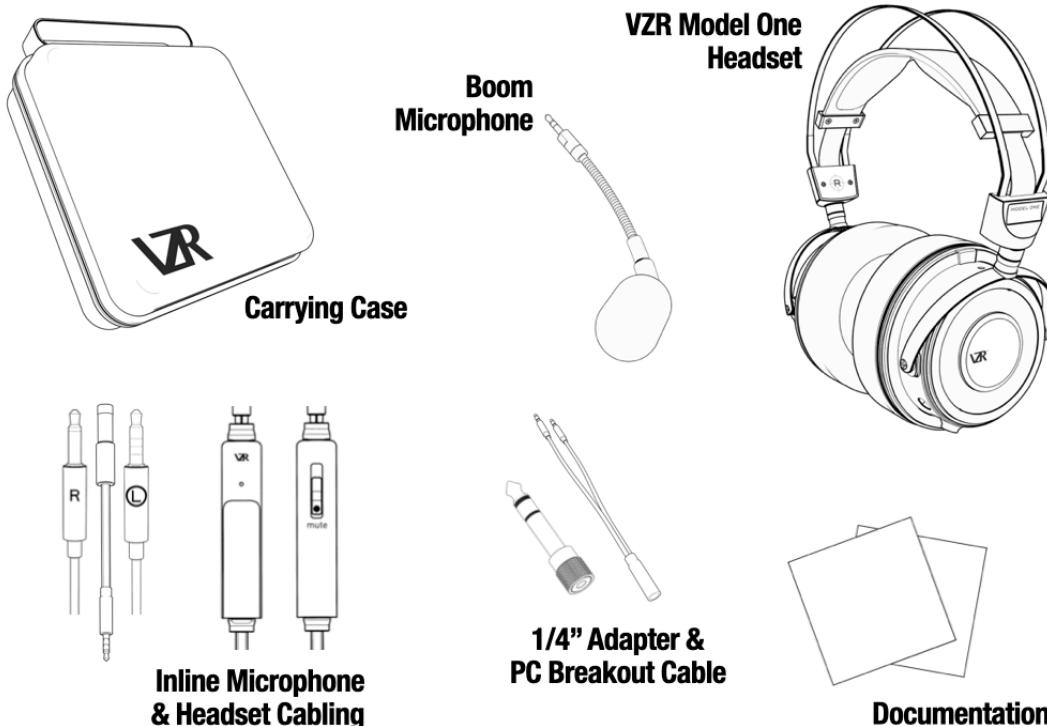
VZR's mission is to bring 'Winning Sound to All'. With the Model One, we are making audiophile-quality sound accessible to users who will wear them for competitive gaming, professional audio production, simply listening to their favorite music - or all three in the same day.

The VZR Model One is the result of years of research and is a marvel of acoustic engineering. Every component has been optimized to deliver class-best performance, and the Model One features the debut of a ground-breaking, proprietary and patent-pending innovation called CrossWave™ that truly sets it apart from competitor products - even ones several times more expensive.

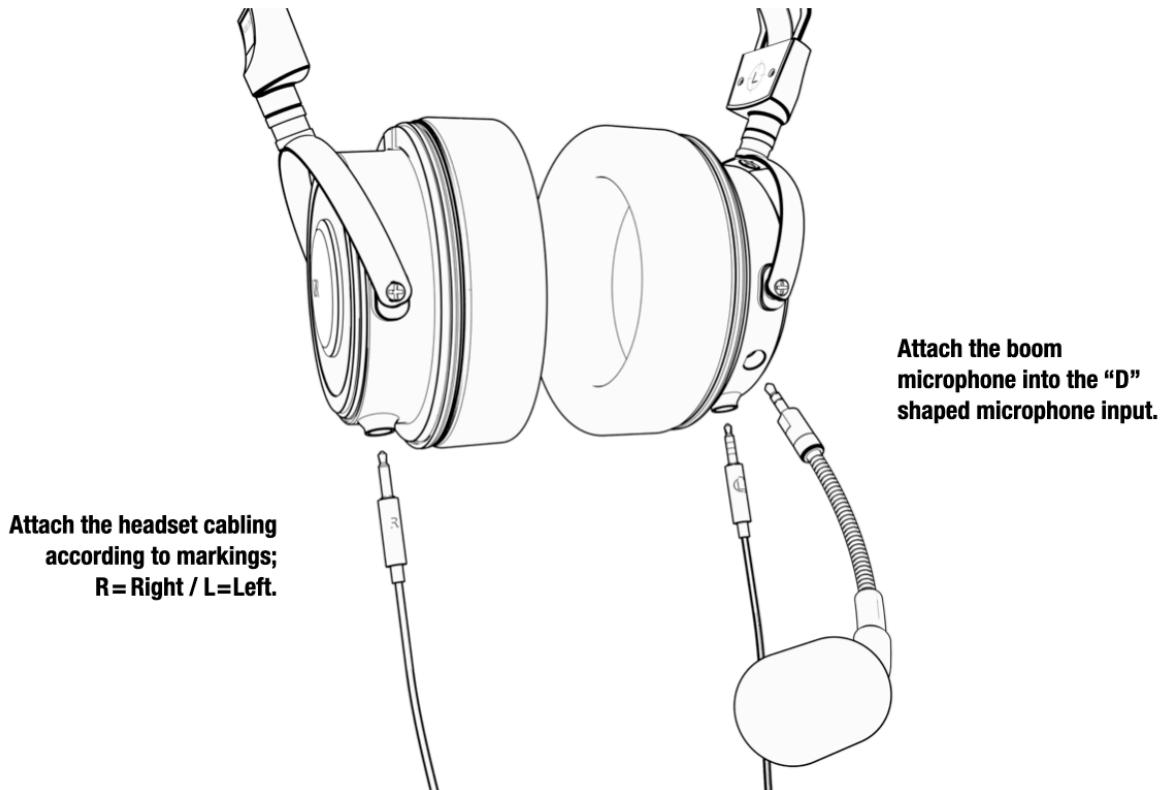
We're excited to share this incredible product with you and can't wait for you to try out the VZR Model One.

## SET-UP

The VZR Model One ships in a stylish, rugged Carrying Case with the following components included:



After removing the contents from the packaging, the first set-up step is to attach the headset cabling to the VZR Model One headset. Note the markings ("L" and "R") on the connectors closest to the Inline Microphone and match them to the ports on the headset (the Left cable plugs into the Left headset can which also has the Boom Microphone port). Then, simply insert the connectors until you hear a satisfying 'click' indicating they are securely seated.



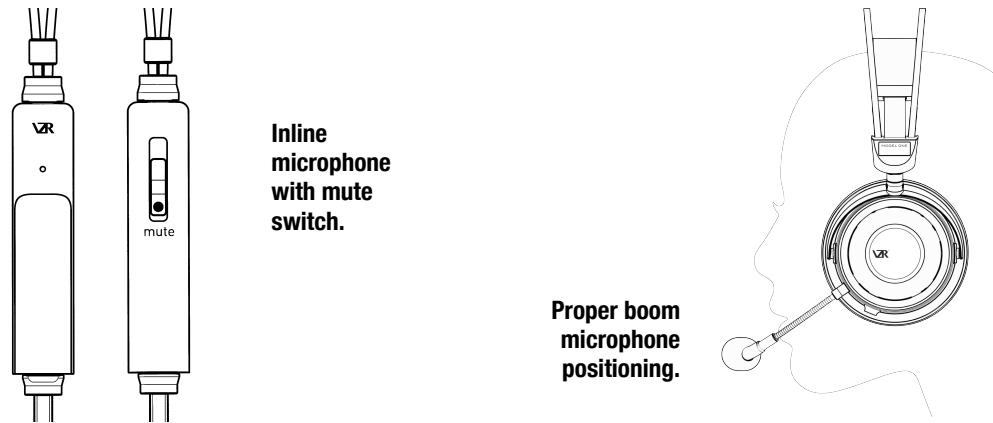
Next, attach the Boom Microphone by aligning the orientation of the D-shaped connector with the corresponding port on headset's left speaker can. When the Boom Microphone is connected properly, the foam cover of the mic should be directly in front of the wearer's mouth.

Finally, plug the other end of the headset cable - the one with a single termination - into your audio source. Note that the VZR Model One ships with a 3' extension cable, PC break-out cabling and a 3.5mm to 1/4" adapter so it can be easily plugged into a variety of inputs (like gaming rigs, headset amplifiers, DACs, mixing boards, audio equipment and even smartphones or tablets).

# USING THE MICROPHONES

When the Boom Microphone is plugged in, it becomes the live microphone. This uni-directional Boom Microphone works best when it is positioned directly in front of your mouth, about a finger's width from your lips.

When you remove the Boom Microphone, your VZR Model One automatically switches the microphone functionality to the omni-directional Inline Microphone, found on the headset cable.



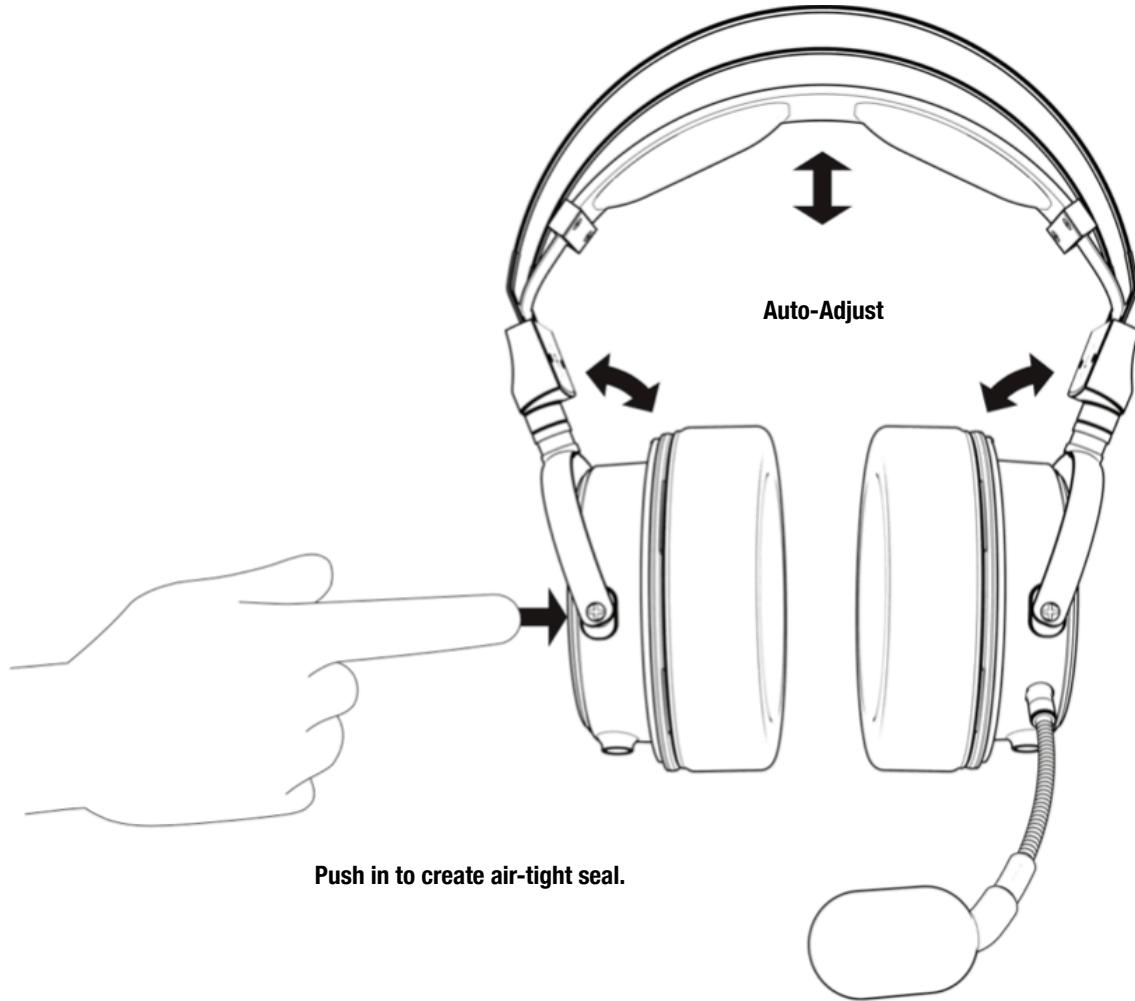
Your VZR Model One also features a Mute Switch on the back of the Inline Microphone housing. Slide the Mute Switch to the MUTE position to turn off both the Boom Microphone and the Inline Microphone. Slide the switch to the ON position to un-mute the microphones.

## OPTIMIZING FIT & COMFORT

The VZR Model One headset is designed to fit comfortably on a variety of head shapes and sizes - and remain comfortable over periods of sustained usage.

The key to providing this comfort is a unique combination of automatically adjusting components. The VZR Model One headband adapts the headband height to fit your head perfectly, with the suspended headband design providing for a near 'zero-gravity' feel and a lighter perceived weight, making it effortless to wear during critical longer sessions.

The VZR Model One headband features multi-point articulation which allows further adaptation of both the location and orientation of the earpieces, so you'll get a good fit (critical to great sound) no matter the size or shape of your head. The circum-aural ('around the ear') design of the earpieces also means that the entirety of your ears remain pressure-free, unlike on-the-ear designs.



Each time you put on the VZR Model One, ensure that you have the headset oriented correctly (i.e., left earpiece over left ear, right over right). Then gently push the earcups towards your head to create a snug, comfortable seal. The custom memory foam earpads, which are designed to be thicker behind your ears and thinner in front of your ears, will conform to your head and create a fit that is also optimized for fine-tuned bass response and overall acoustic performance.

# TIME FOR SOME CRITICAL LISTENING

OK! Now it's time to put the VZR Model One to the test...

We recommend keeping a few headsets you are very familiar with close by, so you can easily swap between those headsets and the VZR Model One to make comparisons more convenient. Make sure you allow adequate time for your ears and brain to acclimate to each headphone. Note also that the VZR Model One drivers and earpad foam will slowly break-in for optimal performance after about 20 hours of use.

We also recommend listening to a wide variety of content on multiple platforms: different genres of music from your smartphone, movie soundtracks and effects from a tablet, and environmental gaming audio from your computer, for example.

While you are listening, pay particular attention to the expanse and solidity of the entire soundstage. Note the natural, accurate positioning of instruments, sound effects and in-game cues. Hear the nuance of fingers against frets, inhaled breaths and high-hat brush that you've never noticed before. In *Call of Duty: Warzone* - or your favorite game - experience the thrill of gaining a competitive advantage by quickly discerning the exact origin of enemy footsteps or gunshots (this impact is even greater if you enable spatial audio using Dolby Atmos or Windows Sonic).

In addition to your own go-to review tracks, please check out this playlist to hear some examples of where we think the VZR Model One really shines:

Gameplay & Immersion:

- **Call of Duty: Warzone.** [<https://bit.ly/38D7a7T>] - *Ultra-accurate positioning of gunshots & footsteps.*
- **Unreal Engine Demo.** [<https://bit.ly/3qnB6Lr>] - *Amazing reverb reproduction, immersive realism.*
- **Shadow of the Tomb Raider.** [<https://bit.ly/2LsUrMc>] - *Incredible distinguishability amidst the chaos.*
- **Formula1 Binaural Recording.** [<https://bit.ly/3qc6Tia>] - *Eerily accurate & natural spatialization.*

VZR Music Demo Playlist: [<https://bit.ly/3bH3kwG>] (Tidal - HiFi) or [<https://spoti.fi/39z7ofL>] (Spotify)

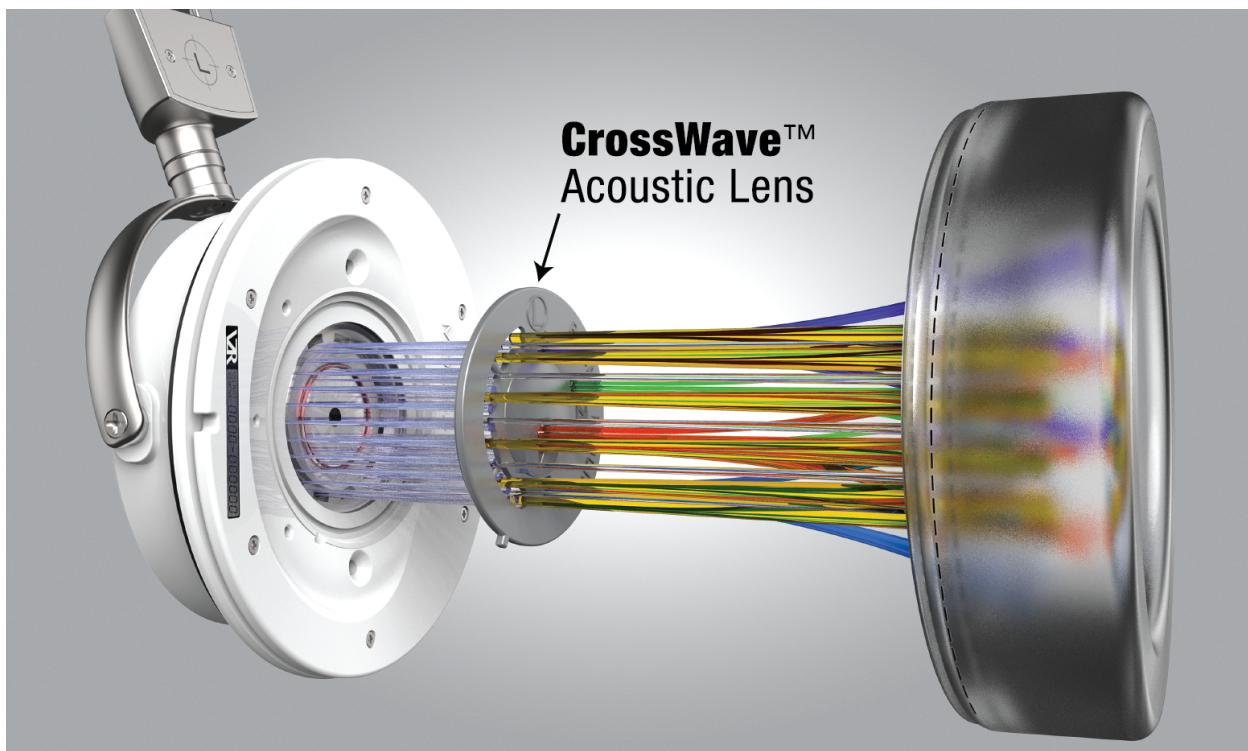
- **“No Complaints” - Metro Boomin.** *Natural vocals, rich multi-textured bass notes.*
- **“Hotel California (Live)” - Eagles.** *Immersive, expansive, there-in-person experience.*
- **“These Bones” - The Fairfield Four.** *Incredible vocal reproduction, separation of discrete voices.*
- **“Cello Suite No.1” Bach, Yo-Yo Ma.** *Accurate cello artifacts, exquisitely preserved room acoustics.*
- **“Bullet Proof Soul” - Sade.** *Deep, powerful bass with soothing but natural vocals.*
- **“So What” - Miles Davis.** *High fidelity presentation of each instrument, trumpet in particular.*
- **“Islands” - Sara Bareilles.** *Impressive sound stage, impactful heart-beat bass effect.*
- **“Born on the Bayou” - CCR.** *Smooth panning intro guitar, instruments all clearly distinct, present.*
- **“No Time to Die” Billie Eilish.** *Complex, layered mix realized perfectly, vulnerable vocals preserved.*
- **“Libertango” - Grace Jones.** *Effortless bass complements whimsical accompaniment & vocals.*

# WHY THE VZR MODEL ONE SOUNDS SO GOOD

At VZR, we saw a massive opportunity to bring a new approach to the acoustic design of headphones and microphones - one based on our team's incredible experience in designing and building audiophile speakers, and their expertise in sound spatialization - to specifically address this issue of accurate and natural 3D audio. In this way, we ensure every meticulously-designed nuance and detail is preserved, so that listeners can have the acoustic experience as intended by the artists, producers and creators.

Our goal was to deliver the fidelity and detail of a studio reference speaker system alongside the expansiveness and warmth of open-backed audiophile headphones - all in an affordable headset that offered best-in-class performance no matter how you used it.

VZR's signature breakthrough innovation - making its commercial debut - is a proprietary and patent-pending technology called CrossWave™. CrossWave™ allows the Model One to acoustically render natural, accurate 3D spatialized experiences without digitally altering the audio source.



*The unique geometry of the CrossWave™ passive acoustic lens selectively and strategically reshapes audio waves to emulate the way you would perceive the sound in real life without headphones, resulting in improved separation, openness and accurate 3D spatial positioning.*

Here's how CrossWave™ technology works:

But, while CrossWave™ is primary innovation in the Model One, it certainly is not the only innovation. The VZR team's focus on optimizing the acoustic design was all-encompassing, from:

- Obsessing the stiffness of the headphone cans by incorporating a genuine, functional carbon fiber ring into the earcups;
- Reduction of unwanted off-axis vibrations by cleverly constraining and guiding movement of the speaker motor;
- Strategic placement and geometry of vents and seals to fine-tune the frequency response over the entire audible range so it sounds great even at lower volumes;
- Innovative use of damping materials typically found in large, high-end speakers to attenuate specific frequencies;
- Radical simplification of the internal wiring and improved materials and shielding of the cabling for increased signal purity and decreased interference and signal loss;
- And, the detailed characterization and hand-selected matching of driver pairs for a balanced, harmonious sound profile.
- Each individually serialized headset then undergoes comprehensive functional and acoustic testing before leaving the factory.

The result is a singular headset that offers best-in-class, audiophile performance for gaming, audio production or simply enjoying your favorite music.

# KEY FEATURES

In addition to the patent-pending CrossWave™ technology, the VZR Model One also features:

- **Custom 40mm Drivers:** Individually paired, specially tuned speakers that bring you clear, accurate highs critical to spatialization, plus rich bass and expressive mid-range.
- **Detachable Boom Microphone:** Removable unidirectional microphone with patent-pending passive noise cancellation so your voice always comes through loud and clear.
- **Inline Microphone:** Automatically enabled when the Boom Mic is disconnected, the omnidirectional microphone and mute switch give you control over how you are heard.
- **All-Day Comfort:** Around-the-ear design, custom memory foam ear pads and a suspended headband mean you'll stay comfortable, even after hours of use.
- **Robust Design:** Exotic parts, materials and construction - inspired by high-end speakers and supercars - deliver reduced vibrations and pure, high-fidelity sound.

# SPECIFICATIONS

## Acoustic Specifications

Drivers	
Driver size	40mm, Dynamic
Rated Impedance	32 ohms
Frequency Response	10 Hz - 30kHz
Sensitivity (SPL)	100 dB / mW
Max Peak Power	30mW
Max Noise Power	20mW
Boom Microphone	
Frequency Response	50 Hz - 20 kHz
Sensitivity	-47 dB
In-line Microphone	
Frequency Response	100 Hz - 10,000 kHz
Sensitivity	-42 dB

ALL PRODUCT, PRODUCT SPECIFICATIONS,  
APPEARANCES AND DATA ARE SUBJECT TO CHANGE  
WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION  
OR DESIGN OR OTHERWISE.

## General Specifications

Ear Coupling	Closed Back, Circum-aural
Earpad Type	Memory Foam
Cable	Detachable, Oval
Main cable length	1.55 meter
Extension cable	1 meter
Breakout cable	3.5mm Mic (Pink) & Audio (Green)
Audio Plug types	Left channel earcup - TRRRS Right channel earcup - TRS Main plug audio source - TRRS
Boom Microphone	6mm ECM, Uni-directional, Noise-canceling, Analog, TRS plug
Inline Microphone	4mm ECM, Omni-directional, Analog
Microphone Impedance	2.2k ohms
Headset Weight	430g
MSRP	\$350
Warranty	1-year Limited
Compatibility	PC/Mac/Console via 3.5mm plug

# ABOUT VZR

The VZR Team was able to create the remarkable VZR Model One because of their unique combination of expertise in acoustic design, audio product design, audio production and 3D audio spatialization.

A true audio pioneer, VZR Co-Founder **Victor Tiscareno** has designed and built countless high-end and consumer electronics audio products.



Victor founded Red Rose Music with Mark Levinson, and their speakers and amplifiers garnered praise from critics and audiophiles alike. A Red Rose customer, Steve Jobs recruited Victor to create and lead an audio research laboratory charged with radically improving the overall acoustic quality of Apple products. This resulted in the development and production of many critically and commercially successful products. Victor also served as the principal acoustic engineer for signature Apple audio products like the iPod Hi-Fi speaker system, In-ear Headphones and the ubiquitous iPod and iPhone inbox headphones.

Victor applied his 30+ years of expertise towards developing the many innovations - including CrossWave™ - that are included in the VZR Model One. Victor currently serves as VZR's CEO and CTO.

VZR Co-Founder **Michel Henein** has 20+ years of experience in both film and game audio production.



Mike began his career assisting at Hans Zimmer's Media Ventures and Remote Control Productions. He parlayed this experience to enter the world of games, joining THQ as a sound designer and sound supervisor. Mike led the buildup of a world-class sound studio at THQ's Digital Studios in Phoenix, Arizona, where he was responsible for shipping three AAA games.

In 2006, Mike joined the Conservatory of Recording Arts and Sciences as an audio instructor where he co-developed the industry's first Wwise-based game-audio curriculum (a leading audio engine from Audiokinetic

powering most AAA game titles – recently acquired by Sony). Mike joined VisiSonics as VP Of Products in 2016 to lead development of new 3D audio products for MxR and 360-video. At VisiSonics, Mike's knowledge of DSP technology and industry contacts resulted in multi-million-dollar licensing deals for the company. He is a vital contributor to both the production and evangelism of products for VZR.

# CONTACT INFORMATION

If you have any questions or feedback regarding the VZR Model One, please feel free to reach out to us directly or contact our public relations team at Stride PR.

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