

# ZeroTech Optics USA - Precision Rifle Scopes, Binoculars & Red Dots

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## Description:

ZeroTech Optics USA has precision optics designed and built for the backcountry hunter with accuracy and clarity that will exceed your expectations. Featuring rifle scopes, binoculars, red dots, and spotting scopes with cutting-edge precision technology tailored to hunters and shooters. Products include THRIVE HD, Vengeance HD, and Trace series with multi-coated lenses, illuminated reticles, and lifetime warranty coverage.

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**Brand:** ZeroTech Optics USA

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## Product Intelligence

# ZeroTech Optics USA: Comprehensive Technical Overview ZeroTech Optics USA is the official United States division and authorized retailer for ZeroTech Optics, an Australian precision optics manufacturer. The company serves as a direct sales channel through which American customers can purchase optical products manufactured by ZeroTech Optics. ## Company Background and Credentials **Organizational Structure:** ZeroTech Optics USA operates as both the official US-based division and direct sales entity of ZeroTech Optics. The parent organization, ZeroTech Optics, is an Australian precision optics company founded in 2018 as a subsidiary of Tasco Sales (AUST) Pty Ltd (TSA), which has over 50 years of optical industry experience dating back to 1965. **Market Positioning:** ZeroTech Optics USA focuses on delivering precision optics designed and built for backcountry hunters with accuracy and clarity that exceeds expectations. The company positions itself as providing the most reliable and affordable sports optics on the market, combining cutting-edge design and performance with accessibility to all customer segments. ## Product Categories and Specifications ### Rifle Scopes ZeroTech Optics USA manufactures and distributes multiple riflescope series, each designed for specific applications: **Thrive Series (Entry to Mid-Range):** The Thrive series represents entry-level to mid-range options with practical features and accessible pricing. Models include the Thrive 3-9x40, Thrive HD 1-8x24 LPVO (Low Power Variable Optic), and Thrive 1-10x24 LPVO with illuminated reticles. These scopes feature fully multi-coated lens coating (FMC) for enhanced light transmission and reduced glare. **Vengeance Series (Mid-Range Performance):** The Vengeance series provides feature-rich value options for serious shooters. Available models through ZeroTech Optics USA include the Vengeance 1-8x24 RAR LPVO, Vengeance 1-8x24 RAR FDE,

Vengeance 3-12x40 R3, Vengeance 3-12x40 PHR 4, Vengeance 6-24x50 R3, Vengeance 6-24x50 R3 IR, Vengeance 1-10x28 RMG-L, and the Vengeance LPVO series. These scopes are backed by ZeroTech's Triple A Lifetime Warranty. **\*\*Trace Series (Long-Range and Tactical):\*\*** The Trace series includes long-range options designed for precision shooting applications. These scopes feature advanced reticle designs and are available in both first focal plane (FFP) and second focal plane (SFP) configurations. **\*\*Trace Advanced Series (Premium Performance):\*\*** The Trace Advanced series represents the pinnacle of ZeroTech optical engineering, featuring premium Japanese optical glass, advanced reticles, and precision turret systems for unmatched clarity and precision in long-range shooting and competitive applications. **### Optical Construction and Technical Features** **\*\*Core Construction Standards:\*\*** All ZeroTech Optics USA rifle scopes utilize argon purging to prevent internal fogging and O-ring sealing for waterproof protection. These construction methods enable scopes to perform in extreme environmental conditions ranging from humid winters to dusty plains without losing internal clarity. **\*\*Lens Coating Technology:\*\*** Fully Multi-Coated (FMC) lens treatments are applied across most riflescope models to optimize light transmission through optical systems while reducing reflections and glare. This enhancement maintains visibility and image quality across various lighting conditions. **\*\*Reticle Systems:\*\*** ZeroTech Optics USA offers proprietary reticle designs developed through precision engineering: - **\*\*RMG FFP Reticle:\*\*** Provides a perfect combination of accuracy and speed for maintaining elevation and windage, particularly suited for high-speed precision shooting and long-range targeting - **\*\*R3 SFP Reticle:\*\*** Designed for long-range hunting, allowing shooters to enjoy second focal plane benefits while maintaining the ability to hold extremely accurate long-range shots - **\*\*PHR II Reticle:\*\*** Serves as a precision hunting reticle for general hunting applications - **\*\*LR Hunter FFP Reticle:\*\*** Specifically designed for long-range precision applications - **\*\*Mildot Reticle:\*\*** Mil-based ranging reticle for tactical and ranging applications - **\*\*RAR MOA Reticle:\*\*** Available on Vengeance models, providing practical aiming patterns designed for everyday shooters **\*\*Adjustment Systems:\*\*** Turret systems feature lockable quick-adjustment capabilities allowing precise and quick field adjustments without losing zero. ZeroTech offers both MOA (Minute of Angle) and MRAD (milliradian) adjustment systems, with MOA being intuitive for inches and yards measurements, while MRAD represents the metric standard for precision shooting. **### Binoculars** ZeroTech Optics USA distributes multiple binocular models designed for hunting, bird watching, and outdoor observation: **\*\*Thrive HD Series:\*\*** Models include the THD1042 (10x42mm) and THD842 (8x42mm), featuring waterproof and fogproof construction with fully multi-coated lens coating (FBMC) for enhanced light transmission and image clarity. **\*\*Compact Travel Binoculars:\*\*** The THD825 and THD1025 models provide waterproof and fogproof compact designs for travel applications while maintaining optical performance. **\*\*Vengeance Series:\*\*** Including the VG842HD, VG1042, VG1050ED, and premium Vengeance ED models with FBMC lens coating and advanced optical technologies. **\*\*Trace Series:\*\*** The Trace 15x56mm binoculars are engineered for serious hunters and outdoor enthusiasts requiring higher magnification capabilities. **### Red Dot Sights and Reflex Optics** ZeroTech Optics USA manufactures and distributes specialized red dot and reflex sight systems: - **\*\*Thrive Red Dot optical sight:\*\*** Basic red dot configuration - **\*\*Thrive Reflex Sight 3 MOA:\*\*** Reflex optics with 3 MOA reticle - **\*\*Thrive HD Micro Reflex Sight (THDM21):\*\*** Compact reflex optics with shake-awake technology for auto-activation - **\*\*Thrive HD 1x Micro Prism scope:\*\*** Micro prism scope design - **\*\*TRACE RAS 1x25 Digital Red Dot Sight:\*\*** Digital red dot with advanced optical features - **\*\*H.A.L.O TRAE28 Heavy-Duty Aspherical Lens Optic:\*\*** Heavy-duty reflex optic design All red dot and reflex sight models feature fully multi-coated (FMC) lens coating and illuminated reticle systems with adjustable brightness settings. **## Technical Specifications and Performance Characteristics** **### Optical Performance Standards** ZeroTech Optics USA products incorporate optical technologies comparable to premium brands at more accessible price points. The optical clarity and precision of adjustments meet or exceed industry standards, with features including lateral parallax adjustment and illuminated reticle systems across select models. **\*\*Environmental Performance:\*\*** Scopes are engineered to withstand extreme weather conditions including high-temperature environments up to 50°C and sub-zero conditions, reflecting design standards developed for harsh Australian outback conditions. Waterproof and fogproof ratings ensure reliable performance across diverse climates. **\*\*Optical Glass Standards:\*\*** The company utilizes HD (High Definition) glass in scope designs and

incorporates extra-low dispersion (ED) glass in Thrive HD series models. Trace Advanced series products feature premium Japanese optical glass for enhanced clarity and color reproduction. ### Turret Specifications and Adjustment Capabilities Rifle scopes feature comprehensive adjustment systems including: - Elevation adjustment turrets with 0.5 MOA click increments (standard specification) - Windage adjustment capabilities for horizontal reticle positioning - Parallax adjustment ranging from 15 meters to infinity on standard models - Turret index values specified in MOA or MRAD increments ### Exit Pupil and Eye Relief Exit pupil diameter specifications typically range from approximately 3.4mm on high magnification settings to 13.6mm on low magnification settings, depending on specific scope models and magnification ranges. Eye relief specifications typically measure 90mm across standard models, providing comfortable viewing distance for shooters. ### Field of View Specifications Field of view specifications vary by magnification range and objective lens diameter. Higher magnification models provide narrower fields of view, while lower magnification options provide wider fields for target acquisition and tracking. ## Warranty and Support ### Triple A Lifetime Warranty ZeroTech Optics USA backs the Vengeance riflescope line with an unconditional Triple A Lifetime Warranty covering all products. This warranty does not require a receipt, providing absolute peace of mind to customers. If products fail or break, they are repaired or replaced regardless of the problem or circumstances, reflecting long-term confidence in build quality and performance. ### Customer Service Infrastructure The company provides comprehensive customer support and educational services including detailed scope mounting instructions, adjustment guidance, zeroing procedures, battery use recommendations, and product maintenance guidance. Customer support is accessible through [service@zerotechoptics.com](mailto:service@zerotechoptics.com). ### Product Documentation ZeroTech Optics USA maintains comprehensive product documentation, technical specifications, reticle manuals, and customer support materials for all optical equipment offerings, available through the ZeroTech Resources Website and official support channels. ## Distribution and Availability ZeroTech Optics USA functions as the official authorized retailer and direct sales channel for the United States market, enabling customers to purchase authentic ZeroTech products directly from the manufacturer through the [zerotechoptics.com](http://zerotechoptics.com) website. The company also maintains a network of authorized dealers throughout the United States for convenient retail access to its optical product portfolio. ### References - [1] ZeroTech Optics Business Profile and Homepage

## Downloads & References

- [View Product Guide](#)