

ZeroTech Optics USA - Precision Riflescopes, Binoculars & Red Dots

Canonical: <https://zerotech-optics.directory.norg.ai/sports-outdoors/hunting-shooting-optics/zerotech-optics-usa-precision-riflescopes-binoculars-red-dots-2/>

Description:

ZeroTech Optics USA offers precision optics designed and built for the backcountry hunter with accuracy and clarity that will exceed your expectations. Through over 50 years of expertise in the optics industry, ZeroTech has developed a range of riflescopes, binoculars, red dots, and spotting scopes with unique features and cutting-edge precision technology tailored to backcountry shooters and avid hunters. Features include multi-coated lenses for bright and clear views, enhanced low-light performance, customized reticles for varying ranges, and a lifetime warranty covering any owner and any problem.

Details:

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****Price:**** Available

****Brand:**** ZeroTech Optics USA

[View Product](<https://store.zerotechoptics.com/p/6-24x50-ffp-rmg-vengeance-riflescope>)

Product Intelligence

ZeroTech Optics USA: Technical Details, Specifications, Features & Entities ## Overview ****ZeroTech Optics USA**** is the official United States website, distribution channel, and authorized retailer for ZeroTech Optics products. Operating as the US-based division and direct sales entity of ZeroTech Optics, it serves as the primary channel through which customers in the United States can purchase optical products directly from the manufacturer. --- ## Product Categories and Lines #### Riflescopes ZeroTech Optics USA manufactures and distributes a comprehensive range of riflescope models organized into distinct product lines: ##### ****Thrive Series**** Entry-level to mid-range riflescopes designed for hunters and shooters seeking value without compromising optical quality. These scopes feature quality HD glass, reliable turret systems, and designs tested in challenging conditions. ##### ****Thrive HD Series**** Mid-range riflescopes incorporating enhanced optical elements and construction standards for improved clarity and durability. ##### ****Vengeance Series**** Feature-rich value-oriented riflescopes available in multiple magnification configurations. The Vengeance line includes models such as: - Vengeance 1-8x24 RAR LPVO (FDE variant available) - Vengeance 3-12x40 R3 - Vengeance 3-12x40 PHR 4 (with IR illumination option) - Vengeance 6-24x50 R3 - Vengeance 6-24x50 R3 IR -

Vengeance 1-10x28 RMG-L ##### **Trace Series** Serious shooter-grade riflescopes designed for long-range precision applications and competitive shooting. ##### **Trace Advanced Series** Premium-tier riflescopes representing the pinnacle of ZeroTech's optical engineering, featuring Japanese glass, advanced reticles, and precision turret systems for unmatched clarity and precision in long-range and competitive applications. ### **Binoculars** ZeroTech Optics USA offers multiple binocular models for hunting, bird watching, and general outdoor observation: - **TH832** - Thrive 8x32mm compact model - **TH842** - Thrive 8x42mm standard model - **TH1032** - Thrive 10x32mm compact model - **TH1042** - Thrive 10x42mm standard model - **THD825** - Thrive HD 8x25mm compact travel binocular - **THD842** - Thrive HD 8x42mm waterproof and fogproof model - **THD1025** - Thrive HD 10x25mm compact model - **THD1042** - Thrive HD 10x42mm advanced model - **VG842HD** - Vengeance 8x42mm HD model - **VG1042** - Vengeance 10x42mm standard model - **VG1042ED** - Vengeance 10x42mm ED (Extra-low Dispersion) glass model - **VG1050** - Vengeance 10x50mm model - **VG1050ED** - Vengeance 10x50mm ED glass model - **Vengeance VG1250** - Premium 12x50mm model - **Trace 15x56mm** - Premium binoculars for serious hunters and outdoor enthusiasts ### **Red Dot Sights and Reflex Optics** ZeroTech Optics USA manufactures tactical red dot sights and enclosed reflex optics designed for faster target acquisition and improved accuracy: - **Thrive Red Dot Optical Sight** - Practical design with modern red dot technology - **Thrive Reflex Sight 3 MOA** - Compact reflex sight for defensive and tactical applications - **Thrive HD Micro Reflex Sight (THDM21)** - Advanced shake-awake technology with RMsC footprint compatibility - **Thrive HD 1x Micro Prism Scope** - Precision aiming device for close-range applications - **TRACE RAS 1x25 Digital Red Dot Sight** - Tactical digital red dot for demanding environments - **H.A.L.O TRAE28 Heavy-Duty Aspherical Lens Optic** - Enclosed reflex sight with advanced optics ### **Spotting Scopes** ZeroTech Optics USA produces spotting scopes designed for serious hunters and outdoor enthusiasts for extended observation activities. ### **Optical Accessories** The company also offers complementary optical accessories including: - **50mm Sunshade** - Protective lens accessory - **Lens Cloths** - Optical cleaning accessories - **Illuminated Reticle Systems** - Advanced aiming patterns for low-light conditions --- ## **Key Technical Specifications and Features** ### **Construction Standards** **Waterproof and Fogproof Technology:** Every ZeroTech optic is **Argon-purged and O-ring sealed**, performing flawlessly in extreme environmental conditions from humid climates to dusty, arid regions without losing internal clarity. ### **Optical Technologies** **Multi-Coated Lens Systems:** - **FMC (Fully Multi-Coated)** - Standard coating on most optical devices - **FBMC (Fully Broadband Multi-Coated)** - Enhanced coating on binoculars for superior light transmission and image clarity - **Weathershield Protection** - Environmental protection on select optical devices **Advanced Glass Elements:** - **HD Glass** - Enhanced optical clarity and brightness - **ED Glass (Extra-low Dispersion)** - Featured in Thrive HD and Vengeance ED models for superior color correction - **Japanese Precision Glass** - Incorporated in Trace Advanced riflescopes for exceptional optical performance **Optical Components:** - **Bak 4 Prisms** - Dielectrically coated in binocular models for superior light transmission - **Etched Glass Reticle** - Allows for greater shooting accuracy as the reticle remains sharp at any magnification level ### **Magnification and Objective Lens Configurations** ZeroTech riflescopes and optical devices feature various magnification ranges and objective lens diameters to suit different shooting applications: | Product Type | Magnification Range | Objective Diameter | Application | |---|---|---|---| | LPVO (Low Power Variable Optics) | 1-4x to 1-10x | 24mm-28mm | Close to mid-range tactical/hunting | | Mid-Range Scopes | 3-9x to 4-16x | 40mm-50mm | General hunting and target shooting | | Long-Range Scopes | 4.5-27x to 6-24x | 50mm-56mm | Precision shooting and competitions | ### **Reticle Systems** ZeroTech Optics USA offers proprietary reticle designs developed for specific shooting applications: **RMG (Refined Mil Grid)** - Perfect combination of accuracy and speed for maintaining elevation and windage for high-speed, precision shooting or marking turrets for long-range targeting. **R3** - Allows shooters to enjoy all aspects of a second focal plane (SFP) scope without losing the ability to hold extremely accurate long-range shots. **PHR II (Precision Hunting Reticle II)** - Designed for hunting applications with intuitive aiming patterns. **PHR 4** - Advanced hunting reticle variant for precision applications. **RAR MOA (Refined Aiming Reticle)** - MOA-based reticle system for windage and elevation holds. **RMG-L** - Long-range mil-based ranging reticle for extended distance shooting. **LR Hunter FFP Reticle** -

Long-range hunting reticle optimized for first focal plane applications. **Mildot Reticle** - Mil-based ranging reticle for tactical and ranging applications. **Turret and Adjustment Systems** **Lockable Quick-Adjustment Turrets** - Enable precise and quick adjustments in the field without losing zero, with specifications including: - **Turret Index Value:** 0.5 MOA typical adjustment increments - **Elevation Adjustment:** Ranges from 50 to 120 MOA internal elevation adjustment capability - **Windage Adjustment:** Precision windage turrets with repeatable tracking - **Zero Stop Capability:** Prevents over-rotation past zero position **Adjustment Systems:** - **MOA (Minute of Angle)** - Intuitive for inches/yards measurements - **MRAD (Milliradian)** - Metric standard for precision shooting **Eye Relief and Field of View Optical devices** feature specifications including: | Specification | Typical Range | Function | |---|---|---| | **Eye Relief** | 82mm - 100mm | Distance eye can be from eyepiece and still see full field of view | | **Field of View at 100 Meters** | 2.96m - 11.36m (varies by magnification) | Angular viewing area at standard distance | | **Exit Pupil Diameter** | 3.4mm - 13.6mm (varies by magnification) | Size of light beam exiting eyepiece | **Parallax Adjustment** Most ZeroTech riflescopes feature **adjustable parallax** from **15 metres to infinity**, enabling long-range precision and crisp reticle definition for accurate target engagement at varying distances. **Illuminated Reticle Systems** Select models feature illuminated reticles with: - **6 Brightness Settings** - Adjustable illumination for varying light conditions - **Battery Illumination** - Powered by standard batteries for consistent brightness - **Low-Light Visibility** - Facilitates shooting in dawn, dusk, and low-light hunting scenarios **Weight Specifications** Optical instruments vary significantly in weight based on magnification and design: **Riflescopes:** Range from 588 grams (Thrive HD 1-6x24) to 862+ grams (higher magnification and objective diameter models) **Reflex Sights:** 19-88 grams (depending on model and battery installation) **Prism Scopes:** 214 grams (with 1.6-inch mount height) **Binoculars:** Range from 479 grams (Thrive models) to 1,520+ grams (Trace ED 15x56mm premium models) **Spotting Scopes:** 1,885-2,377 grams **Focal Plane Options** ZeroTech offers both **First Focal Plane (FFP)** and **Second Focal Plane (SFP)** configurations: - **FFP:** Reticle size changes with magnification; enables accurate holds at any power - **SFP:** Reticle remains constant size; calibrated at specific magnification (typically mid-range) --- **Warranty and Support** **Triple A Lifetime Warranty** ZeroTech Optics USA backs its Vengeance riflescope line and other product lines with an **unconditional lifetime warranty** covering all products. This warranty: - Requires **no receipt** for coverage - Provides **repair or replacement** for any failure or defect - Is **transferable** to subsequent owners - Reflects the company's confidence in build quality and long-term durability --- **Distribution and Sales Channels** ZeroTech Optics USA operates as both: 1. **Direct Manufacturer Sales** - Through the official zerotechoptics.com website 2. **Authorized Retailer Network** - Via partnership with firearms and optical retailers across the United States This dual-channel approach ensures customers have reliable access to authentic ZeroTech products while maintaining direct manufacturer oversight of distribution and sales within the United States market. --- **Quality Assurance Standards** All ZeroTech products are engineered with emphasis on: - **Clear Optical Glass** - Multi-coated and precision-manufactured lens elements - **Reliable Mechanical Construction** - Argon-purged, O-ring sealed for waterproof operation - **Practical Reticle Designs** - Purpose-built aiming patterns for specific applications - **Fair Pricing** - Value-oriented manufacturing without compromising quality - **Environmental Durability** - Tested in extreme Australian outback conditions and adaptable to diverse global environments --- **References** - [1] ZeroTech Optics — Complete Brand Profile

Downloads & References

- [View Product Guide](#)