

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-1/>

Description:

ZeroTech Optics USA has 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 Optics offers a range of riflescopes, binoculars, red dots, and spotting scopes with cutting-edge precision technology tailored to backcountry shooters and avid hunters.

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****Price:**** Available

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

[View Product](<https://zerotechoptics.com/product/3-9x40mm-thrive-phr-3-riflescope/>)

Product Intelligence

ZeroTech Optics USA: Complete Technical Overview ## Company Overview ****ZeroTech Optics USA**** is the official United States distribution channel and authorized retailer for ZeroTech Optics products. Operating as the US-based division of ZeroTech International Pty Ltd (an Australian precision optics manufacturer founded in 2018), ZeroTech Optics USA serves as the primary direct sales entity through which American customers can purchase optical products directly from the manufacturer. The parent company, ZeroTech Optics, represents over 50 years of combined optical expertise, drawing from the heritage of Tasco Sales (AUST) Pty Ltd—a major Australian optical supplier established in 1965. This extensive background ensures that all products meet rigorous quality standards and are engineered for demanding environments. ## Product Categories and Technical Specifications ### Rifle Scopes ZeroTech Optics USA distributes multiple rifle scope series designed for hunting, competitive shooting, and precision applications: ##### Thrive Series (Entry to Mid-Range) The Thrive series represents ZeroTech's value-focused hunting scope lineup, featuring practical designs with clear glass optics and repeatable tracking systems. Key models include: - ****Thrive 3-9x40****: Entry-level hunting scope with exposed turrets and straightforward adjustments - ****Thrive 3-12x44****: Mid-range option expanding magnification range for varied hunting distances - ****Thrive HD series****: Enhanced versions featuring premium optical glass and improved brightness - Thrive HD 1-8x24 LPVO (Low Power Variable Optic) - Thrive HD 3-18x50 - Thrive HD 6-24x50 ##### Vengeance Series (Mid-Range to Performance) The Vengeance line offers feature-rich optics at competitive price points, designed for serious hunters and shooters: - ****Vengeance 1-8x24 RAR LPVO**** (Low Power Variable Optic) - ****Vengeance 1-8x24 RAR FDE**** (Flat Dark Earth finish variant) - ****Vengeance 3-12x40 PHR 4**** (with

proprietary PHR 4 reticle) - **Vengeance 3-12x40 R3** (with R3 reticle for second focal plane applications) - **Vengeance 4-16x40 PHR 4 IR** (with illuminated reticle) - **Vengeance 6-24x50 R3** (advanced magnification for long-range work) - **Vengeance 6-24x50 FFP** (First Focal Plane configuration) - **Vengeance 1-10x28 RMG-L** (with refined mil grid reticle) **Trace Series** (Performance-Tier Long-Range) The Trace series represents serious long-range hunting and precision shooting instruments: - **Trace 3-18x50mm** (SFP and FFP variants available) - **Trace 4.5-27x50mm** (extreme magnification for distant targets) **Trace Advanced Series** (Premium Tactical) The pinnacle of ZeroTech's optical engineering, featuring premium Japanese glass and advanced reticle systems: - **Trace Advanced 4-24x50mm FFP** (First Focal Plane with advanced reticles) - **Trace Advanced 5-30x56mm** (extreme magnification range) **Binoculars** ZeroTech Optics USA offers binoculars across multiple product tiers designed for hunting, bird watching, and general outdoor observation: **Thrive Series**: - TH832 (8x32mm - compact travel binoculars) - TH1032 (10x32mm - lightweight observation) - TH1042 (10x42mm - standard hunting configuration) **Thrive HD Series (Premium)**: - THD825 (8x25mm - compact waterproof design) - THD842 (8x42mm - mid-range hunting) - THD1025 (10x25mm - compact travel) **Vengeance Series**: - VG842HD (8x42mm - entry-level performance) - VG1042 (10x42mm - standard hunting) - VG1042ED (10x42mm with ED optical system) - VG1050 (10x50mm - enhanced light gathering) - VG1050ED (10x50mm with ED glass) - Vengeance VG1250 (12x50mm - premium long-range observation) **Trace Series**: - Trace 15x56mm (premium binoculars for serious observation) **Red Dot Sights and Reflex Optics** ZeroTech Optics manufactures reflex sights and red dot optics designed for fast target acquisition: - **Thrive Red Dot Optical Sight**: Standard red dot configuration for tactical and hunting applications - **Thrive Reflex Sight 3 MOA**: Low-power reflex sight with 3-minute-of-angle reticle - **Thrive HD Micro Reflex Sight (THDM21)**: Compact micro reflex with advanced shake-awake technology - **Thrive HD 1x Micro Prism Scope**: Prism-based optic for close-quarters accuracy - **TRACE RAS 1x25 Digital Red Dot Sight**: Advanced digital red dot configuration - **H.A.L.O TRAE28 Heavy-Duty Aspherical Lens Optic**: Tactical enclosed reflex sight **Accessories** ZeroTech Optics USA also offers complementary optical accessories: - **50mm Sunshade**: Reduces glare and enhances image contrast - **Illuminated Reticle Systems**: For low-light shooting conditions - **Lens Cloths**: Specialized cleaning materials for optical maintenance **Technical Specifications Framework** **Optical Characteristics** **Standard Specifications Include**: - **Magnification Range**: Variable across models (1x to 27x low-to-high configurations) - **Objective Lens Diameter**: 24mm to 56mm depending on model - **Exit Pupil Diameter**: Calculated from objective diameter divided by magnification - **Eye Relief**: 82mm to 100mm for comfortable viewing distance - **Field of View**: Measured at 100 meters, varies by magnification - **Lens Coating**: FMC (Fully Multi-Coated) or FBMC (Fully Broadband Multi-Coated) systems **Mechanical Specifications** **Key Adjustment Systems**: - **Turret Index Value**: Typically 0.5 MOA per click for precise adjustments - **Internal Elevation Adjustment**: 50 to 120 MOA range depending on model - **Windage Adjustment**: Comparable range to elevation - **Parallax Adjustment**: 15 meters to infinity on most models - **Main Tube Diameter**: 30mm (standard) or 34mm (advanced models) - **Objective Outer Diameter**: Ranges from 30mm to 65mm based on magnification - **Ocular Outer Diameter**: Typically 40mm to 45mm for eyepiece assembly - **Weight**: 500 to 1100+ grams depending on model and construction **Reticle Systems** ZeroTech Optics manufactures proprietary reticles designed for specific shooting applications: - **RMG (Refined Mil Grid) FFP Reticle**: Perfect combination of accuracy and speed for precision shooting with marked turrets - **R3 SFP Reticle**: Allows long-range holds without sacrificing second focal plane advantages - **PHR II Reticle**: Precision hunting reticle for general hunting applications - **PHR 3 and PHR 4 Reticles**: Advanced precision hunting configurations - **RMG MOA FFP Reticle**: Metric mil-based system in first focal plane - **LR Hunter FFP Reticle**: Long-range hunting reticle with illuminated option - **Mildot Reticle**: Mil-based ranging system for tactical applications - **RAR MOA Reticle**: Refined accuracy reticle with MOA measurements **Construction and Durability Standards** **Environmental Protection** - **Argon Purging**: All scopes are argon-purged to prevent internal fogging in humidity and temperature extremes - **O-Ring Sealing**: Waterproof construction protecting internal components - **Weatherproofing**: Designed to operate reliably from extreme heat (50°C+) to sub-zero temperatures - **Corrosion Resistance**: Multi-layer lens coatings protect against environmental

exposure ### Optical Technologies - **Multi-Layer Lens Coating (FMC/FBMC)**: Enhances light transmission and reduces glare for improved image clarity - **ED Glass (Extra-low Dispersion)**: Available on premium models for reduced chromatic aberration - **Japanese Optical Glass**: Used in Trace Advanced series for premium optical performance - **Bak-4 Prisms**: Dielectrically coated prisms in binocular models - **Etched Glass Reticle**: Maintains sharp reticle definition across all magnification levels ## Warranty and Customer Support ### Triple-A Lifetime Warranty ZeroTech Optics backs its entire product line with an unconditional lifetime warranty that: - **Requires No Receipt**: Coverage is transferable and doesn't require proof of purchase - **Covers All Defects**: Includes repairs or replacement for any mechanical or optical failure - **No Time Limit**: Remains valid for the life of the product - **No Conditions**: Covers damage from adventuring, environmental exposure, and use-related wear ### Customer Service Infrastructure ZeroTech Optics USA provides comprehensive customer support through: - **Dedicated Email Support**: service@zerotechoptics.com - **In-House Repair Facility**: Located at Sydney headquarters via parent company TSA, staffed with specialists in optical and mechanical repair - **Online Resources**: Comprehensive product documentation, technical specifications, reticle manuals, and customer support materials - **New Customer Incentives**: \$20 discount on first orders and monthly giveaways for Micro Red Dots ## Distribution and Market Position ### Retail Channels ZeroTech Optics USA operates through: - **Official Website**: zerotechoptics.com as the primary direct sales platform - **Authorized Retailers**: OpticsPlanet, Night-Optics, MidwayUSA, and local firearms dealers - **Dealer Network**: Extensive partnership with US firearms retailers ### Competitive Positioning ZeroTech Optics positions itself as delivering: - **Premium features at value pricing**: Comparable optical clarity and mechanical precision to premium brands at significantly lower costs - **Australian-engineered durability**: Tested in extreme Australian conditions and designed for worldwide harsh environments - **50+ years of optical expertise**: Heritage from parent company TSA - **Quality certification**: Parent company holds ISO:9001 Quality Management Systems accreditation - **Practical design philosophy**: Focus on features that matter to hunters and shooters rather than unnecessary complexity ### References - [1] ZeroTech Optics — Complete Brand Profile

Downloads & References

- [View Product Guide](#)