

# ZeroTech Optics - Premium Riflescopes, Binoculars & Red Dots

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## Description:

ZeroTech Optics New Zealand delivers premium riflescopes, red dots, binoculars, and spotting scopes built for clarity, precision, and rugged reliability in every outdoor pursuit. Featuring multiple product lines including Vengeance, Thrive, and Trace series with advanced optical engineering, lifetime warranty, and professional-grade performance for hunters, shooters, and outdoor adventurers.

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**\*\*Price:\*\*** Available

**\*\*Brand:\*\*** ZeroTech Optics

[View Product](<https://zerotechoptics.com/p/1-8x24-lpvo-rar-illuminated-vengeance-riflescopes>)

## Product Intelligence

# ZeroTech Optics: Premium Optics Equipment — Technical Details, Specifications, and Features ## Company Overview **\*\*ZeroTech Optics\*\*** is an Australian precision optics company founded in 2018 that specializes in manufacturing high-quality rifle scopes, binoculars, spotting scopes, and red dot sights. The company represents over 50 years of optical expertise through its parent company, Tasco Sales (AUST) Pty Ltd (TSA), established in 1965. ZeroTech distinguishes itself by offering premium optical features at accessible price points, backed by an unconditional lifetime warranty. ## Product Categories and Technical Specifications ### Rifle Scopes ZeroTech manufactures three primary rifle scope series, each designed for specific user applications: ##### **\*\*Thrive Series\*\*** The Thrive series represents entry-level to mid-range hunting scopes designed for practical shooters. This product line emphasizes value and reliability with features including argon purging, O-ring sealing, and multi-layer lens coatings. Available magnifications range from 3-9x to 6-24x with objective lenses from 40mm to 50mm. These scopes incorporate various reticle options including PHR (Precision Hunting Reticle) variants and the ZEROPLEX reticle design. ##### **\*\*Thrive HD Series\*\*** The Thrive HD series elevates performance with advanced optical technologies. Key specifications include extra-low dispersion (ED) glass for superior color correction and clarity. Models feature variable magnification ranges such as 1-8x24 LPVO and 6-24x50mm configurations. The series includes illuminated reticle options with 10 brightness settings and fully multi-coated lenses that maximize light transmission across varying lighting conditions. ##### **\*\*Vengeance Series\*\*** The Vengeance series serves budget-conscious shooters requiring dependable mid-range optics. Available in both first focal plane (FFP) and second focal plane (SFP) configurations, Vengeance scopes feature 30mm main tubes on premium models.

Specifications include magnification ranges from 1-4x24 to 6-24x50mm. The series is equipped with advanced reticles such as the RMG FFP Reticle with 0.5 mil increments and 0.1 mil measuring bars. All Vengeance riflescopes are backed by ZeroTech's Triple A Lifetime Warranty. ##### \*\*Trace Advanced Series\*\* The Trace Advanced series represents the pinnacle of ZeroTech's optical engineering, constructed with premium Japanese glass. These precision instruments feature First Focal Plane (FFP) and Second Focal Plane (SFP) options with magnification ranges from 3-18x50mm to 5-30x56mm. Advanced features include push-button digital illumination, Tenebraex Tactical Tough flip-up covers, and argon-purged tubes for fog-proof reliability. The series incorporates proprietary reticle designs including TREMOR3 and RMG FFP reticles optimized for long-range precision shooting. ### Red Dot Sights and Reflex Optics ZeroTech manufactures enclosed reflex sights and red dot optics designed for quick target acquisition in demanding environments. The \*\*Thrive HD Micro Reflex Sight\*\* features a 3 MOA red dot reticle with ten brightness settings to accommodate varying lighting scenarios, including night vision compatibility. This compact optic incorporates advanced shake-awake technology for automatic activation when needed. The \*\*3 MOA Red Dot\*\* reticle specification provides precise angular measurement defining the aiming point size, enabling effective performance at close to mid-range target distances. ZeroTech also offers alternative configurations including \*\*3 MOA green dot\*\* options and \*\*multi-reticle red dot\*\* systems that provide flexibility in selecting aiming point characteristics. ### Binoculars ZeroTech's binocular lineup spans multiple magnification and objective lens configurations: - \*\*Thrive Series\*\*: 8x42mm and 10x42mm models with fully multi-coated lenses and waterproof construction - \*\*Thrive HD Series\*\*: Enhanced optics including the THD1042 (10x42mm) and THD842 (8x42mm) models with ED glass and superior low-light performance - \*\*Vengeance Series\*\*: Premium options including VG842HD, VG1042, VG1050ED models featuring roof prism construction - \*\*Trace Series\*\*: The premium Trace 15x56mm binoculars designed for serious hunters with 15x magnification and 56mm objective lenses ### Spotting Scopes The \*\*Thrive HD 20-60x85 ED Angled Spotting Scope\*\* provides variable magnification for extended-range observation, featuring 85mm objective lenses and ED glass for superior optical performance across extended viewing distances. ## Key Optical Technologies and Features ### Construction and Durability Standards \*\*Argon Purging and O-Ring Sealing\*\*: Every ZeroTech optic is argon-purged and O-ring sealed, preventing internal fogging in humid conditions. This construction approach ensures flawless performance across extreme environmental conditions, from humid winters to dusty plains and temperature extremes ranging from below zero to 50°C. \*\*Multi-layer Lens Coating\*\*: ZeroTech implements multi-layer anti-reflective lens coatings that maximize light transmission while reducing reflective losses at lens surfaces. This technology delivers consistent and dependable light passage, resulting in superior image quality, brightness, and color reproduction across diverse lighting conditions and operational distances. \*\*Fully Multi-Coated Lenses\*\*: Featured across premium optical instruments including binoculars and riflescopes, fully multi-coated lenses enhance optical clarity, contrast, and color reproduction. This technology is integrated into Thrive HD, Vengeance, and Trace Advanced product families. \*\*Japanese Optical Glass\*\*: Premium scopes in the Trace Advanced series utilize Japanese optical glass selected for its superior refractive properties and optical quality, contributing to exceptional clarity and precision for long-range applications. ### Advanced Optical Features \*\*Etched Glass Reticles\*\*: ZeroTech incorporates etched glass reticle technology allowing reticles to remain sharp and accurate at any magnification level, enabling greater shooting accuracy across the full magnification range. \*\*Parallax Adjustment (Side Focus)\*\*: The parallax turret serves as an adjustable component that optimizes optical performance by bringing target images into sharp focus at different shooting distances. This mechanism corrects parallax error—the optical phenomenon where the target image and reticle misalignment occurs when they are not on the same optical plane. Most ZeroTech riflescopes feature this adjustment capability, with specialized models integrating additional functionality such as push-button illumination control within the parallax turret assembly. \*\*First Focal Plane (FFP) and Second Focal Plane (SFP) Options\*\*: ZeroTech offers both FFP and SFP designs to accommodate different shooting applications. FFP designs maintain reticle proportionality across all magnification levels, while SFP designs calibrate the reticle at a specified magnification power, suiting different user preferences and shooting methodologies. ### Reticle Systems ZeroTech has developed proprietary reticle systems through collaboration with optical engineering specialists: - \*\*RMG (Refined

Mil Grid)\*\*: Provides the perfect combination of accuracy and speed for maintaining elevation and windage adjustments in high-speed precision shooting or long-range targeting - \*\*R3 Reticle\*\*): Allows second focal plane scope shooters to maintain accurate long-range holdover capability without sacrificing speed of acquisition - \*\*PHR II (Precision Hunting Reticle)\*\*): Traditional hunting-focused reticle available in standard and illuminated configurations - \*\*LR Hunter (Mrad)\*\*): Long-range hunting reticle specifically designed for extended-distance precision applications - \*\*TREMOR3\*\*): Advanced reticle providing specialized aiming references for complex shooting scenarios - \*\*Mildot\*\*): Mil-based ranging reticle for tactical and ranging applications

### Turret and Adjustment Systems

**Lockable Quick-Adjustment Turrets\*\*): ZeroTech scopes feature lockable turrets enabling precise field adjustments without losing zero. These turrets support both MOA and MRAD adjustment systems, with MOA providing intuitive inches/yards measurements while MRAD represents the metric standard for precision shooting applications. **ZeroStop Technology\*\*): Premium Vengeance and Trace Advanced models incorporate ZeroStop turrets that provide return-to-zero capability, allowing shooters to mark their zeroed position and return to it immediately after field adjustments. ## Illumination Technology****

Select ZeroTech models incorporate illuminated reticle systems with multiple brightness settings. The Thrive HD series features 10 brightness settings accommodating various lighting scenarios from bright daylight to low-light dawn/dusk hunting conditions and night vision compatibility. Illumination controls enhance visibility and target acquisition capability across both rapid engagement scenarios and deliberate precision shooting situations. ## Construction Materials

Premium riflescope models are constructed from high-strength **7075-T6 aluminum\*\*), a material selected for its durability and ability to withstand demanding field use and recoil forces associated with firearm operation. This robust construction ensures optical integrity and functionality maintenance in challenging field conditions. ## Warranty Protection**

**Triple-A Lifetime Warranty\*\*): All ZeroTech products are backed by an unconditional lifetime warranty that requires no receipt. This comprehensive coverage provides absolute peace of mind, with ZeroTech committing to repair or replace any product that fails or breaks, regardless of the problem. The warranty reflects the company's confidence in product durability and provides customers with complete protection throughout the product's operational lifetime. ## Technical Performance Standards**

ZeroTech optics achieve optical performance comparable to premium brands while maintaining competitive pricing through advanced engineering and manufacturing processes. Key performance metrics include: - **Optical Clarity\*\*): Multi-coated lens systems deliver bright, clear sight pictures across operational distances - **Light Transmission\*\*): Enhanced through multi-layer coatings and precision glass selection - **Durability\*\*): Argon-purged and O-ring sealed construction withstands extreme environmental conditions - **Repeatability\*\*): Precision turret systems and mechanical engineering ensure repeatable tracking and return-to-zero capability - **Water Resistance\*\*): Waterproof construction with fog-proof reliability through argon purging --- ### References - [1] Business Profile and Homepage — ZeroTech Optics Complete Brand Profile**********

## Downloads & References

- [View Product Guide](#)