

ZeroTech Optics - Premium Riflescopes, Binoculars & Red Dots

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Description:

ZeroTech Optics 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 explorers.

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****Price:**** Available

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

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Product Intelligence

ZeroTech Optics: Complete Technical Overview ZeroTech Optics is an Australian precision optics manufacturer specializing in rifle scopes, binoculars, spotting scopes, and red dot sights designed for hunters, competitive shooters, and outdoor enthusiasts. The company combines over 50 years of optical expertise with modern engineering to deliver high-quality products at accessible price points. ## Company Foundation and Heritage ****ZeroTech International Pty Ltd**** was founded in 2018 as a subsidiary of Tasco Sales (AUST) Pty Ltd (TSA), one of Australia's leading optical suppliers established in 1965. The company draws from a third-generation optical manufacturing and distribution family, bringing decades of expertise to the precision optics market. ZeroTech operates as both a manufacturer and retailer through multiple regional websites, including zerotechoptics.com for the United States market and zerotech.com.au for Australia. ## Premium Product Lines ### Rifle Scope Series ****Thrive Series**** represents ZeroTech's value-oriented entry to mid-range offering. These scopes feature practical designs with clear optical glass, reliable mechanical construction, and accessible pricing. The Thrive lineup includes models such as the Thrive HD 3-9x40, Thrive HD 1-8x24 LPVO, and Thrive 1-10x24 LPVO, many featuring illuminated reticles for low-light performance. ****Vengeance Series**** provides mid-range to performance-tier options with enhanced features. This line includes models like the Vengeance 3-12x40, Vengeance 6-24x50 FFP, and Vengeance 1-10x28 LPVO. Vengeance scopes feature proprietary reticle designs and are backed by ZeroTech's Triple A Lifetime Warranty. ****Trace Series**** delivers long-range precision capabilities with advanced optical technology. Notable models include the Trace 3-18x50mm and Trace 4.5-27x50mm, engineered for serious hunters and competitive shooters requiring extended-range capabilities. ****Trace Advanced**

Series** represents the pinnacle of ZeroTech's optical engineering. Built with premium Japanese optical glass and advanced reticle systems, these scopes feature First Focal Plane (FFP) and Second Focal Plane (SFP) options, push-button digital illumination, and argon-purged tubes for fog-proof reliability. ### Optical Equipment Specifications ZeroTech optical products incorporate standardized technical features across product lines: - **Magnification Ranges:** From 1x to 30x across various models - **Objective Lens Diameters:** 24mm, 40mm, 44mm, 50mm, and 56mm configurations - **Main Tube Diameter:** 30mm standard across most models - **Eye Relief:** Ranging from 75mm to 100mm+ depending on model - **Ocular Outer Diameter:** Typically 43.5mm to 45mm - **Field of View:** Varies by magnification range - **Exit Pupil Diameter:** Multiple configurations for optimal light gathering - **Elevation and Windage Adjustment:** Precise MOA or MRAD-based systems with lockable turrets - **Parallax Adjustment:** Lateral parallax adjustment on select models - **Weight:** Approximately 635g average for rifle scopes ### Red Dot Sights and Reflex Optics ZeroTech manufactures several red dot and reflex sight options: - **Thrive Red Dot Optical Sight:** Designed for faster target acquisition - **Thrive Reflex Sight 3 MOA:** Practical reflex optic with modern red dot technology - **Thrive HD Micro Reflex Sight (THDM21):** State-of-the-art micro reflex with shake-awake technology, built on RMSc footprint - **Thrive HD 1x Micro Prism Scope:** Compact prism-based optic with generous eye relief - **TRACE RAS 1x25 Digital Red Dot Sight:** Advanced digital red dot system - **H.A.L.O TRAE28 Heavy-Duty Aspherical Lens Optic:** Tactical reflex sight with unlimited eye relief ### Binocular Systems **Thrive HD Binocular Series:** - THD1042 (10x42mm) and THD842 (8x42mm) models - Waterproof and fogproof compact travel binoculars including THD825 and THD1025 - Eye relief specifications ranging from 15.0mm to 21.0mm - Multi-coated optical systems for enhanced brightness **Vengeance Binocular Series:** - VG842HD, VG1042, VG1050ED models - Available in 8x42mm, 10x42mm, and 10x50mm configurations - Premium glass roof prism designs - FBMC (Fully Broadband Multi-Coated) lens coating for superior light transmission **Trace Series Binoculars:** - Trace 15x56mm binoculars for serious hunters and outdoor enthusiasts - High-magnification configurations for extended-range observation - Advanced optical glass elements ### Spotting Scopes ZeroTech manufactures the Thrive HD 20-60x85 ED Angled Spotting Scope, designed for extended observation periods with comfortable eye relief specifications of 18-20mm. ## Advanced Optical Technologies ### Lens Coating Systems ZeroTech employs multiple lens coating technologies to optimize optical performance: - **FMC (Fully Multi-Coated):** Applied to rifle scopes, red dot sights, and reflex optics, improving light transmission and reducing reflections - **FBMC (Fully Broadband Multi-Coated):** Featured on premium binocular models for enhanced light transmission and image clarity - **Weathershield Protection:** Environmental protection for optical elements on select models Multi-coated optics enhance light transmission through the optical system while simultaneously reducing glare and reflection. This technology produces crisp, sharp, and high-contrast images with natural color reproduction, enabling clearer visibility across various lighting conditions. ### Proprietary Reticle Systems ZeroTech has developed sophisticated reticle designs through collaboration with industry specialists: - **RMG (Refined Mil Grid) FFP Reticle:** Optimized for high-speed precision shooting with accurate elevation and windage marking for long-range targeting - **RMG MOA FFP Reticle:** MOA-based variant of the RMG system - **RMG-L Reticle:** Advanced long-range variant - **R3 SFP Reticle:** Designed for second focal plane scopes, allowing accurate long-range shots while maintaining the advantages of SFP design - **PHR (Precision Hunting Reticle) Series:** Including PHR II and PHR 4 variants for hunting applications - **LR Hunter FFP Reticle:** Illuminated long-range hunting reticle for low-light visibility - **Mildot Reticle:** Mil-based ranging reticle for tactical and ranging applications - **RAR MOA Reticle:** Refined accuracy reticle in MOA measurements ### Construction and Environmental Resistance All ZeroTech optics incorporate robust construction standards: - **Argon Purging:** Prevents internal fogging in all moisture-prone conditions - **O-Ring Sealing:** Waterproof protection ensuring durability in extreme environments - **Durable Materials:** Engineered for Australian climate extremes from desert heat (up to 50°C) to sub-zero temperatures - **Shake-Awake Technology:** Auto-activation feature on select red dot sights for operational readiness ### Glass and Optical Elements - **ED Glass (Extra-low Dispersion):** Featured in Thrive HD series for superior color fidelity - **Japanese Precision Glass:** Incorporated in Trace Advanced series for premium optical clarity - **Bak 4 Prisms:** Dielectrically coated in binocular models

for superior image quality - **Etched Glass Reticles:** Provide sharp, accurate reticle definition at any magnification level **Technical Adjustment Systems** **Turret Specifications** ZeroTech scopes feature advanced turret systems: - **Lockable Quick-Adjustment Turrets:** Enable precise field adjustments without losing zero - **MOA-Based System:** Intuitive for measurements in inches and yards - **MRAD-Based System:** Metric standard for precision shooting applications - **Zero Stop Feature:** Available on select models to prevent accidental adjustment **Focal Plane Options** - **First Focal Plane (FFP):** Reticle size changes with magnification; ideal for long-range competition - **Second Focal Plane (SFP):** Reticle remains consistent size; practical for hunting applications **Warranty and Support** **Triple A Lifetime Warranty** ZeroTech backs its optical products with an unconditional lifetime warranty that requires no receipt. This comprehensive coverage includes: - Lifetime repair or replacement for any product failure - No time limitations on warranty claims - Transferable coverage - In-house repair facility in Sydney with specialized technicians - Support for optical, digital imaging, and mechanical repairs **Customer Service Infrastructure** ZeroTech maintains advanced customer service facilities in Sydney, NSW, with a dedicated team of technicians skilled in optical repair, small arms specifications, and electronics. The company provides comprehensive product documentation, technical specifications, reticle manuals, and customer support materials through its digital platforms. **Distribution and Availability** ZeroTech operates through multiple regional markets including Australia, United States, New Zealand, United Kingdom, Europe, and South Africa. Products are available through authorized retailers and direct sales channels via zerotechoptics.com and regional websites. The company has established partnerships with major optical retailers and firearms dealers worldwide. **Key Differentiators** ZeroTech Optics distinguishes itself through Australian-engineered precision, over 50 years of optical heritage, ISO:9001 quality certification through its parent company, extreme environment testing in harsh Australian conditions, in-house repair facilities, proprietary reticle systems, and value-focused pricing that delivers premium features at accessible price points. **References** - [1] ZeroTech Optics — Complete Brand Profile (Business Homepage)

Downloads & References

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