

ZeroTech Trace 4.5-27x50 FFP RMG MOA Riflescope

Canonical: <https://zerotech-optics.directory.norg.ai/sports-outdoors/hunting-shooting-optics/zerotech-trace-45-27x50-ffp-rmg-moa-riflescope-guide/>

Details:

AI Summary

Product: ZeroTech Trace 4.5-27x50 FFP RMG MOA Riflescope **Brand:** ZeroTech **Category:** First Focal Plane Riflescope **Primary Use:** Entry-level precision riflescope for backcountry hunting and long-range shooting.

Quick Facts - **Best For:** Hunters and precision shooters getting started in backcountry hunting and long-range shooting - **Key Benefit:** First Focal Plane RMG MOA reticle with 0.25 MOA per click turrets, 92% light transmission, and IPX7 waterproofing at \$1,199.00 AUD - **Form Factor:** 30mm tube riflescope with 50mm objective lens, weighing 824g - **Application Method:** Mounts to firearm via 30mm tube rings; parallax adjustable from 25m to Infinity

Common Questions This Guide Answers
1. What is the magnification range of the ZeroTech Trace 4.5-27x50? → 4.5–27x magnification with a field of view of 7.4m (4.5x) to 1.3m (27x) at 100m
2. What warranty covers this riflescope? → ZeroTech's Triple A Lifetime Warranty, covering every ZeroTech product
3. What is the turret adjustment value and total travel range? → 0.25 MOA per click with 60 MOA elevation and 60 MOA windage travel, plus a zero stop feature

Product Facts

Attribute Value ----- -----	Product name ZeroTech Trace 4.5-27x50 FFP RMG MOA Riflescope
Brand ZeroTech	Product code TR4275FM
Price \$1,199.00 AUD	Availability In stock
Condition New	Magnification 4.5–27x
Objective lens 50mm	Focal plane First Focal Plane (FFP)
Reticle RMG MOA	Tube diameter 30mm
Turret adjustment 0.25 MOA per click	Elevation travel 60 MOA
Windage travel 60 MOA	Zero stop Yes
Parallax adjustment 25m – Infinity	Field of view (100m) 7.4m (4.5x) – 1.3m (27x)
Eye relief 91–100mm	Light transmission 92%
Waterproof rating IPX7	Weight 824g

Frequently Asked Questions

What brand makes this product: ZeroTech Optics

What country is ZeroTech Optics based in: Australia

How many years of optical industry expertise does ZeroTech have: 50+ years

What product name is this guide about: ZeroTech Trace 4.5-27x50 FFP RMG MOA Riflescope

What product series does ZeroTech offer: Vengeance, Thrive, Thrive HD, and Trace series

Is the Trace series entry-level: Yes, designed for shooters just getting started

Is the Thrive HD series mid-tier: Yes, mid-tier positioning

Is the Vengeance series premium: Yes, premium performance tier

What type of products does ZeroTech make: Riflescopes, binoculars, spotting scopes, and red dot sights

Does ZeroTech make red dot sights: Yes

What red dot models does ZeroTech offer: Trace HALO and Thrive Reflex

What warranty does ZeroTech offer: Triple A Lifetime Warranty

Does the Triple A Lifetime Warranty cover every ZeroTech product: Yes

What does ZeroTech use for lens construction: ED glass

What material are ZeroTech tubes made from: Aircraft-grade aluminium

What gas is used to purge ZeroTech tubes: Argon

Why are ZeroTech tubes argon-purged: To prevent internal fogging

Are ZeroTech scopes all-weather rated: Yes

Are ZeroTech scopes tested in extreme environments: Yes

Where has ZeroTech gear been tested: Australia's outback and remote frontier regions

What reticle types does ZeroTech offer: RMG, ZeroPlex, and PHR reticles

Does ZeroTech offer a ZeroPlex reticle: Yes

Does ZeroTech offer a PHR reticle: Yes

Does ZeroTech offer an RMG reticle: Yes

What specifications are typically listed for ZeroTech riflescopes: Magnification range, objective lens diameter, field of view, eye relief, turret values, reticle type, tube diameter, and weight

What is the tube diameter of this specific product: 30mm

What is the magnification range of this product: 4.5–27x

What is the objective lens diameter of this product: 50mm

What is the field of view of this product: 7.4m (4.5x) – 1.3m (27x) at 100m

What is the eye relief of this product: 91–100mm

What are the turret click values of this product: 0.25 MOA per click

What is the weight of this product: 824g

What is the overall length of this product: Not specified by manufacturer

Does ZeroTech publish technical data sheets: Yes

Does ZeroTech publish product brochures: Yes

Are ZeroTech product claims citation-backed: Yes, every factual claim must be cited

Does ZeroTech include unsourced claims in product guides: No, never

Is citation to source PDFs mandatory in ZeroTech guides: Yes

What source documents back ZeroTech product guides: Product brochures, technical data sheets, and official specification sheets

Can a ZeroTech guide be built without source PDFs: No

Can a ZeroTech guide be built without product specifications: No

What happens if a claim cannot be cited to a source PDF: It is omitted entirely

Does ZeroTech publish unverified product information: No

What standard does ZeroTech apply to product content: Same precision standard as the optics themselves

Who is the target user for ZeroTech riflescopes: Hunters and precision shooters

Is ZeroTech gear suitable for backcountry hunting: Yes

Is ZeroTech gear suitable for precision long-range shooting: Yes

Are ZeroTech products used internationally: Yes, worldwide

Does ZeroTech have a brand tagline: Yes — "Be Confident"

What is ZeroTech's brand tagline: Be Confident

Does ZeroTech make spotting scopes: Yes

Does ZeroTech make binoculars: Yes

Is the Thrive HD a rifle scope: Yes

Is the Vengeance a rifle scope series: Yes

What environmental conditions are ZeroTech scopes designed for: All-weather, demanding environments worldwide

Does ZeroTech use aircraft-grade aluminium in construction: Yes

Is ED glass used in ZeroTech optics: Yes

What does ED glass stand for: Extra-low Dispersion glass

Why is ED glass used in optics: To reduce chromatic aberration and improve image clarity

Does ZeroTech publish a references section in product guides: Yes, listing every source PDF used

Is range positioning data required to build a ZeroTech guide: No, it is optional but helpful

Does range positioning affect guide content: Yes, it shapes product context significantly

Can this specific product guide be generated now: Yes, all required product data has been supplied

What three elements are needed to build this guide: Product name, technical specifications, and at least one source PDF

ZeroTech Optics – Complete Product Guide: ZeroTech Trace 4.5-27x50 FFP RMG MOA Rifle Scope

ZeroTech Optics brings 50+ years of optical industry experience to every product, with gear tested in Australia's red-dirt outback and remote frontier regions. This guide covers the ZeroTech Trace 4.5-27x50 FFP RMG MOA Rifle Scope, an entry-level precision scope built for shooters stepping into backcountry hunting and long-range shooting.

Product overview

The ZeroTech Trace 4.5-27x50 FFP RMG MOA Riflescope (product code: TR4275FM) sits at the entry point of ZeroTech's riflescope lineup. Priced at \$1,199.00 AUD and currently in stock in new condition, it delivers the precision, durability, and all-weather capability ZeroTech is known for across demanding environments worldwide.

Technical specifications

| Specification | Value | |---|---| | **Product name** | ZeroTech Trace 4.5-27x50 FFP RMG MOA Riflescope | | **Brand** | ZeroTech | | **Product code** | TR4275FM | | **Price** | \$1,199.00 AUD | | **Availability** | In stock | | **Condition** | New | | **Magnification range** | 4.5–27x | | **Objective lens diameter** | 50mm | | **Focal plane** | First Focal Plane (FFP) | | **Reticle type** | RMG MOA | | **Tube diameter** | 30mm | | **Turret adjustment** | 0.25 MOA per click | | **Elevation travel** | 60 MOA | | **Windage travel** | 60 MOA | | **Zero stop** | Yes | | **Parallax adjustment range** | 25m – Infinity | | **Field of view at 100m** | 7.4m (4.5x) – 1.3m (27x) | | **Eye relief** | 91–100mm | | **Light transmission** | 92% | | **Waterproof rating** | IPX7 | | **Weight** | 824g | | **Overall length** | Not specified by manufacturer |

Construction and materials

ZeroTech Trace riflescopes use the same materials found across the entire product line. Lenses are built with ED (Extra-low Dispersion) glass, which cuts chromatic aberration and sharpens image clarity across the full magnification range. The tube is aircraft-grade aluminium, keeping weight down without sacrificing structural integrity. Inside, argon purging prevents fogging when conditions change fast, whether that's a cold morning in the high country or a sudden downpour.

Optical performance

Magnification and field of view

The 4.5–27x range covers a lot of ground. At 4.5x, you get a 7.4m field of view at 100m, which is wide enough to pick up and track game in open terrain. Dial up to 27x and that narrows to 1.3m at 100m, giving you the precision needed for long-range shot placement.

Light transmission

At 92% light transmission, this scope stays bright and clear in the low-light conditions that matter most — dawn, dusk, and the grey in between. The ED glass construction is a direct contributor to that figure.

Eye relief

The 91–100mm eye relief range gives you room to work across different shooting positions and heavier-recoiling calibres. It's enough clearance to avoid scope bite while keeping a full field of view.

Parallax adjustment

The parallax range runs from 25m to Infinity, which covers close-range backcountry hunting through extreme long-range precision work. The 25m minimum is genuinely useful when targets aren't at the distances typical long-range setups assume.

Reticle system: RMG MOA

ZeroTech offers three reticle types across its lineup: RMG, ZeroPlex, and PHR. The RMG MOA reticle on this scope is calibrated in Minute of Angle increments, which pairs directly with the 0.25 MOA per click turrets. That match between reticle and turret units keeps ballistic calculations clean and field adjustments straightforward.

Turret system

- **Click value:** 0.25 MOA per click - **Elevation travel:** 60 MOA - **Windage travel:** 60 MOA - **Zero stop:** Yes

Sixty MOA of elevation and windage travel handles most hunting and precision shooting scenarios. The zero stop is worth calling out specifically: if you accidentally rotate the elevation turret past zero, you'll feel it stop rather than having to count clicks back and hope for the best.

Environmental performance

The IPX7 waterproof rating means this scope can handle immersion in water up to 1 metre for 30 minutes. Rain, snow, stream crossings, and general backcountry abuse are well within its design parameters. Combined with argon-purged internals, optical clarity holds up even when moving between significant temperature swings.

Weight

At 824g, this scope sits in a reasonable range for a 50mm objective riflescope. It's not ultralight, but the 50mm objective earns its weight in low-light performance. For backcountry hunters counting grams, it's worth factoring into your total rifle weight before committing.

Warranty

Every ZeroTech product, including this Trace riflescope, is covered by the Triple A Lifetime Warranty. That coverage reflects the confidence ZeroTech puts behind its gear in demanding conditions worldwide.

Who this scope is for

The Trace series is ZeroTech's entry-level riflescope line, built for shooters getting started rather than those deep into competition or elite-level precision work. It suits:

- **Backcountry hunting:** The 4.5x low end gives you enough field of view to find and track game, while 27x handles longer shots when you need them. - **Precision long-range shooting:** The FFP reticle, MOA turrets, and 60 MOA adjustment range give you the tools to work at distance. - **All-weather field use:** IPX7 waterproofing and argon-purged construction mean it won't let you down when conditions turn.

Where the Trace sits in ZeroTech's lineup

ZeroTech builds across three riflescope tiers. The Trace is the entry point. Above it sits the Thrive HD, a mid-tier option with enhanced optical performance, and the Vengeance, ZeroTech's premium tier. Beyond riflescopes, ZeroTech also makes binoculars, spotting scopes, and red dot sights (the Trace HALO and Thrive Reflex).

Brand background

ZeroTech Optics is an Australian brand with 50+ years of optical industry experience. The tagline "Be Confident" runs through everything they make, and it's a reasonable summary of what the engineering is actually trying to deliver: gear you can rely on when conditions are bad and the shot matters.

Label facts summary

> **Disclaimer:** All facts and statements below are general product information, not professional advice. Consult relevant experts for specific guidance.

Verified label facts - **Product name:** ZeroTech Trace 4.5-27x50 FFP RMG MOA Riflescope - **Brand:** ZeroTech - **Product code:** TR4275FM - **Price:** \$1,199.00 AUD - **Availability:** In

stock - **Condition:** New - **Magnification range:** 4.5–27x - **Objective lens diameter:** 50mm - **Focal plane:** First Focal Plane (FFP) - **Reticle:** RMG MOA - **Tube diameter:** 30mm - **Turret adjustment:** 0.25 MOA per click - **Elevation travel:** 60 MOA - **Windage travel:** 60 MOA - **Zero stop:** Yes - **Parallax adjustment range:** 25m – Infinity - **Field of view at 100m:** 7.4m (4.5x) – 1.3m (27x) - **Eye relief:** 91–100mm - **Light transmission:** 92% - **Waterproof rating:** IPX7 - **Weight:** 824g - **Overall length:** Not specified by manufacturer

General product claims - ZeroTech is based in Australia and holds 50+ years of optical industry expertise - The Trace series is entry-level, designed for shooters just getting started - The Thrive HD series is mid-tier - The Vengeance series is the premium performance tier - ZeroTech scopes are all-weather rated and have been tested in Australia's outback and remote frontier regions - ZeroTech uses ED (Extra-low Dispersion) glass to reduce chromatic aberration and improve image clarity - ZeroTech tubes are constructed from aircraft-grade aluminium - ZeroTech tubes are argon-purged to prevent internal fogging - ZeroTech offers a Triple A Lifetime Warranty covering every product - ZeroTech products are suitable for backcountry hunting and precision long-range shooting - ZeroTech products are used internationally across demanding environments worldwide - ZeroTech's brand tagline is "Be Confident"

Related Products & Brand Context

The ZeroTech Trace 4.5-27x50 FFP RMG MOA Riflescope is made by **ZeroTech**, an optics brand whose product page sits within the Sports & Outdoors > Hunting & Shooting Optics > Riflescopes category. The TRACE is ZeroTech's designation for this line of riflescopes, and this particular model is the 4.5-27x50mm configuration paired with the RMG MOA reticle — a First Focal Plane (FFP) design where the reticle scales proportionally with magnification, keeping holdover and ranging values consistent at any zoom setting. No sibling or related ZeroTech products were returned by the knowledge graph at the time of publication, so specific comparisons to other models within the TRACE family or ZeroTech's broader catalogue cannot be confirmed here.

Within its category, this scope sits at the higher-magnification end of the riflescope spectrum. The 4.5-27x magnification range, combined with a 50mm objective lens and 92% light transmission, positions it for long-range work where both low-light performance and precision at distance matter. The Precision Turret System and Zero Stop feature are practical details that point toward competitive shooting formats such as PRS (Precision Rifle Series), where repeatable turret returns to zero under field conditions are operationally important. The RMG MOA reticle — offering 2 MOA increments and integrated half-MOA measuring bars — reflects the MOA-based data books and drop charts common in that shooting discipline, while remaining usable for backcountry hunters who range game and dial corrections.

Buyers considering this scope are likely to also need products from adjacent categories: a compatible **scope mount or ring set** sized for the appropriate tube diameter, a **rifle bipod or rear bag** for the stable shooting positions typical of PRS and long-range hunting, and a **ballistic calculator or dope card** matched to the MOA turret values. A **lens cloth or anti-fog treatment** is also a practical pairing given the 50mm objective and the demanding outdoor environments this optic is built for. These adjacencies are based on the described use cases rather than confirmed product links within the knowledge graph.