

ZeroTech Trace ED 1-10x24 LPVO FFP RMG-L

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Details:

AI Summary

Product: ZeroTech Trace ED 1-10x24 LPVO FFP RMG-L Illuminated Rifle Scope **Brand:** ZeroTech Optics (Australia) **Category:** Rifle Scope — Low-Power Variable Optic (LPVO) **Primary Use:** A 1–10x first focal plane rifle scope built for AR/MSR platforms, scrub and bush hunting, and NV/thermal compatible setups.

Quick facts - **Best for:** Hunters and shooters who need close-quarters to extended-range capability on AR/MSR or hunting rifles - **Key benefit:** First focal plane RMG-L Illuminated reticle holds consistent subtension across the full 1–10x range - **Form factor:** 34mm main tube, 24mm objective, 727g, black aluminium - **Setup:** Mount on 34mm rings, zero via 0.1 MRAD locking turrets, adjust magnification with the included throw lever

Common questions this guide answers 1. What reticle does the Trace ED 1-10x24 use? → RMG-L Illuminated, a ZeroTech proprietary reticle designed specifically for LPVO use on a first focal plane 2. What is the waterproof rating and what does it mean? → IPX7 — handles immersion in up to 1 metre of water for up to 30 minutes 3. What warranty covers this product? → Triple A Lifetime Warranty — any owner, any problem, always covered; fully transferable to subsequent owners

Product facts

| Attribute | Value | |-----|-----| | Product name | ZeroTech Trace ED 1-10x24 LPVO FFP RMG-L Illuminated Rifle Scope | | Brand | ZeroTech | | Product code | TRED11024F-IR | | Price | AUD \$999.00 | | Availability | In stock | | Condition | New | | Magnification range | 1–10x | | Objective lens diameter | 24mm | | Focal plane | First focal plane (FFP) | | Reticle | RMG-L Illuminated (LPVO specific) | | Illumination control | Digital push-button | | Main tube diameter | 34mm | | Main tube material | 6061-T6 aluminium | | Lens coating | Fully multi-coated (FMC) | | ED glass | Yes | | Eye relief | 94mm | | Field of view at 100m | 39.1m (1x) — 3.91m (10x) | | Exit pupil diameter | 8.6mm (1x) — 2.4mm (10x) | | Parallax setting | Fixed at 100m | | Elevation adjustment range | 35 MRAD | | Windage adjustment range | 15 MRAD | | Turret click value | 0.1 MRAD | | Zero stop | Yes | | Elevation turret | Locking with zero stop | | Waterproof rating | IPX7 | | Weight | 727g | | Color | Black | | Recommended use | AR/MSR platforms, scrub/bush hunting, NV/thermal compatible | | Included accessories | Aluminium flip-up lens covers, removable throw lever, neoprene scope cover, microfibre cleaning cloth |

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What is the product name: ZeroTech Trace ED 1-10x24 LPVO FFP RMG-L Illuminated Rifle Scope

What series does this product belong to: Trace ED

What is the magnification range: 1–10x

What is the objective lens diameter: 24mm

What is the tube size: 34mm

What reticle type does this product use: RMG-L Illuminated (LPVO specific)

Does it use a ZeroPlex reticle: No, this product uses the RMG-L reticle

Does it use an RMG reticle: Yes, specifically the RMG-L Illuminated variant

Does it use a PHR reticle: No, this product uses the RMG-L reticle

What are the turret click values: 0.1 MRAD

What is the eye relief measurement: 94mm

What is the field of view: 39.1m at 1x magnification — 3.91m at 10x magnification (measured at 100m)

What is the product weight: 727g

What is the overall length: Not specified by manufacturer

What is the IP rating: IPX7

Is the product waterproof: Yes, IPX7 rated

Is the product fogproof: Not specified by manufacturer

What purge gas is used: Not specified by manufacturer

What prism type is used: Not applicable to this product (riflescope, not binocular)

Is this a riflescope: Yes

Is this a binocular: No

Is this a spotting scope: No

Who manufactures this product: ZeroTech Optics

Where is ZeroTech Optics based: Australia

How many years of heritage does ZeroTech Optics have: Fifty-plus years

Does ZeroTech Optics offer a warranty: Yes

What is the warranty called: Triple A Lifetime Warranty

What does Triple A stand for in the warranty: Any owner, any problem, always covered

Is the warranty transferable to a new owner: Yes, any owner is covered

Is the warranty lifetime: Yes

What does the Triple A Lifetime Warranty cover: Any problem, for any owner, always

Are there exclusions to the Triple A Lifetime Warranty: Not specified by manufacturer

How do I make a warranty claim: Value not published - contact manufacturer directly

What product lines does ZeroTech Optics offer: Thrive HD, Trace ED, and Vengeance

What is the Thrive HD series: A riflescope series by ZeroTech Optics

What is the Trace ED series: A riflescope and binocular series by ZeroTech Optics

What is the Vengeance series: A spotting scope series by ZeroTech Optics

Is this product suitable for hunting: Yes, recommended for scrub/bush hunting

Is this product suitable for target shooting: Yes, recommended for AR/MSR platforms

Is this product suitable for outdoor adventure: Yes, tested in the world's most demanding environments

What environments is this product tested in: The world's most demanding environments

Is this product built for all-weather use: Yes, IPX7 waterproof rating indicates all-weather capability

What is ZeroTech Optics' content standard for product documentation: No shortcuts, no guesswork, no compromises

Does ZeroTech Optics use proprietary reticle designs: Yes

Name one proprietary ZeroTech reticle: RMG reticle

Name a second proprietary ZeroTech reticle: ZeroPlex reticle

Name a third proprietary ZeroTech reticle: PHR reticle

Is this product currently available for purchase: Yes, in stock

What is the retail price: AUD \$999.00

Where can this product be purchased: Value not published - contact manufacturer directly

Does ZeroTech Optics sell directly to consumers: Not specified by manufacturer

What coatings are applied to the lenses: Fully multi-coated (FMC)

Does this product have ED glass: Yes

What is the close focus distance: Not specified by manufacturer

What is the exit pupil diameter: 8.6mm at 1x magnification — 2.4mm at 10x magnification

What is the twilight factor: Not specified by manufacturer

What is the diopter adjustment range: Not specified by manufacturer

Does this product have a locking turret: Yes, elevation turret with locking feature

Does this product have a zero-stop feature: Yes

What MOA or MRAD adjustment is available: 0.1 MRAD turret click value; 35 MRAD elevation adjustment range; 15 MRAD windage adjustment range

Does this product include a sunshade: Not specified by manufacturer

Does this product include lens covers: Yes, aluminium flip-up lens covers included

What accessories are included in the box: Aluminium flip-up lens covers, removable throw lever, neoprene scope cover, microfibre cleaning cloth

Is a mounting system included: Not specified by manufacturer

What tube diameter is compatible for mounting: 34mm

Can this product be used in low-light conditions: Yes, features digital push-button illumination control and RMG-L illuminated reticle

What is the light transmission percentage: Not specified by manufacturer

Is this product nitrogen purged: Not specified by manufacturer

Is this product argon purged: Not specified by manufacturer

What color or finish options are available: Black

Is there a product manual available: Not specified by manufacturer

Where can I find official ZeroTech Optics documentation: ZeroTech Optics' official documentation library

How do I register my product for warranty: Value not published - contact manufacturer directly

Does ZeroTech Optics have customer support: Not specified by manufacturer

What is ZeroTech Optics' brand philosophy: Precision, clarity, and unbeatable value for money

ZeroTech Optics: product guide — ZeroTech Trace ED 1-10x24 LPVO FFP RMG-L Illuminated Riflescope

ZeroTech Optics builds product guides the same way they build optics: no shortcuts, no guesswork, no compromises. Whether you're looking at the Thrive HD riflescope series, Trace ED binoculars, or Vengeance spotting scopes, every product gets documentation that hunters, shooters, and outdoor adventurers can actually use in the field.

The ZeroTech Trace ED 1-10x24 LPVO FFP RMG-L Illuminated Riflescope (Product Code: TRED11024F-IR) draws on fifty-plus years of Australian optical engineering heritage. This guide covers complete technical specifications, feature explanations, and practical field guidance for anyone who depends on reliable optics when conditions get demanding.

Product overview

The Trace ED 1-10x24 is a low-power variable optic (LPVO) built for AR/MSR platforms, scrub and bush hunting, and NV/thermal compatible setups. Its 1–10x magnification range paired with a first focal plane (FFP) reticle makes it genuinely useful at close quarters and at distance, without compromise in either direction. The RMG-L Illuminated reticle, one of ZeroTech's proprietary designs, holds its geometry in low light and across the full magnification range.

- **Product name:** ZeroTech Trace ED 1-10x24 LPVO FFP RMG-L Illuminated Riflescope - **Brand:** ZeroTech Optics (Australia) - **Product code:** TRED11024F-IR - **Series:** Trace ED - **Condition:** New - **Price:** AUD \$999.00 - **Availability:** In stock - **Warranty:** Triple A Lifetime Warranty (any owner, any problem, always covered; transferable to subsequent owners)

Technical specifications

Magnification and optical performance

| Specification | Value | |---|---| | Magnification range | 1–10x | | Objective lens diameter | 24mm | | Focal plane | First focal plane (FFP) | | Field of view at 100m | 39.1m (1x) — 3.91m (10x) | | Exit pupil diameter | 8.6mm (1x) — 2.4mm (10x) | | Eye relief | 94mm | | Parallax setting | Fixed at 100m | | Lens coating | Fully multi-coated (FMC) | | ED glass | Yes |

The 1–10x range is what makes this a genuine LPVO rather than a compromise in either direction. At 1x you get a 39.1-metre field of view for fast target acquisition and tracking in close-quarters scenarios. At 10x that narrows to 3.91 metres, which is exactly what you want when you're shooting at distance and need the sight picture concentrated.

The 24mm objective keeps the package compact, which matters when you're moving through dense scrub and every extra ounce and millimetre of profile costs you something.

Because the RMG-L reticle sits on the first focal plane, it scales with magnification. The holdover marks, wind correction references, and ranging features stay accurate whether you're at 1x or 10x — you don't need to do mental arithmetic to compensate for magnification changes between shots. That's a real-world advantage in variable-range hunting where you might dial up or down mid-engagement.

Exit pupil diameter runs 8.6mm at 1x and 2.4mm at 10x. The 8.6mm figure at 1x is worth noting: it exceeds the typical human eye's daylight pupil diameter (around 7mm), which means you get a bright, full sight picture even when your eye position isn't perfectly centred. At 10x, the 2.4mm exit pupil suits the more controlled eye position that precision shooting naturally demands.

Eye relief sits at 94mm, which gives comfortable shooting position across the magnification range and reduces scope bite risk during recoil. Glasses wearers will appreciate the clearance.

Fully multi-coated (FMC) optics apply anti-reflection coatings to every air-to-glass surface, maximising light transmission and image clarity. The ED (extra-low dispersion) glass addresses chromatic aberration — the colour fringing that shows up at higher magnification — for sharper, higher-contrast images throughout the range.

Reticle and illumination

| Specification | Value | |---|---| | Reticle type | RMG-L Illuminated (LPVO specific) | | Reticle plane | First focal plane (FFP) | | Illumination control | Digital push-button | | Illumination type | Not specified by manufacturer |

The RMG-L is a ZeroTech proprietary reticle designed specifically for low-power variable optics. The "L" designation means LPVO optimisation — the geometry and subtension are calibrated for the 1–10x range rather than adapted from a higher-magnification design.

On the first focal plane, the reticle stays fine and unobtrusive at 1x, preserving the wide field of view for fast work. As you increase magnification, the reticle scales proportionally, so the subtension remains consistent for holdover and wind correction at every power setting. In hunting scenarios where you're changing magnification between shots, this removes a variable.

The digital push-button illumination lets you adjust reticle brightness without taking your hand off the rifle. In dawn, dusk, overcast, or heavily shaded bush terrain — the conditions where Australian scrub hunters spend a lot of their time — illumination makes the difference between a clear aiming point and a reticle that disappears into the background.

Mechanical specifications

| Specification | Value | |---|---| | Main tube diameter | 34mm | | Main tube material | 6061-T6 aluminium | | Elevation adjustment range | 35 MRAD | | Windage adjustment range | 15 MRAD | | Turret click value | 0.1 MRAD | | Zero stop | Yes | | Elevation turret | Locking with zero stop |

The 34mm main tube is the current standard for precision rifle optics. It gives more adjustment range than a 30mm tube while keeping overall dimensions manageable. 6061-T6 aluminium delivers a good strength-to-weight ratio and handles corrosion well, which matters in Australian bush and scrub conditions.

Elevation adjustment runs to 35 MRAD, windage to 15 MRAD. At 0.1 MRAD per click, each turret click is roughly 1 centimetre at 100 metres. That resolution is enough for precise zero establishment and holdover work at typical hunting distances.

The zero stop locks the elevation turret at your chosen zero point, so a bump during transport or a fumbled adjustment in the field won't shift your zero without you knowing. The locking elevation turret

adds mechanical security without needing tools to engage or release.

Physical characteristics

| Specification | Value | |---|---| | Weight | 727g | | Color | Black | | Waterproof rating | IPX7 | | Overall length | Not specified by manufacturer |

At 727 grams, the Trace ED 1-10x24 is on the lighter end for its magnification range and objective size. That matters on AR/MSR builds and hunting rifles where cumulative weight affects handling over a long day in the field.

IPX7 waterproof rating means the optic can handle immersion in up to 1 metre of water for up to 30 minutes. Rain, creek crossings, and wet brush won't be a problem — the rating comfortably exceeds what most hunting conditions will throw at it.

Included accessories

The Trace ED 1-10x24 ships with a full accessory package:

- **Aluminium flip-up lens covers** — protect objective and ocular lenses from dust, debris, and impact during transport - **Removable throw lever** — fast magnification adjustment without needing precise finger placement or releasing your grip on the rifle - **Neoprene scope cover** — weather protection and some thermal insulation during extended field use - **Microfibre cleaning cloth** — safe lens cleaning without scratching optical surfaces

Recommended applications

The Trace ED 1-10x24 is built for three main uses:

AR/MSR platforms — 1x magnification and a 39.1-metre field of view handle close-quarters carbine work, while 10x extends effective range for precision shooting when the situation calls for it.

Scrub and bush hunting — the compact form factor, weight, and IPX7 construction suit dense vegetation and rough terrain. This is the environment the optic was designed around.

NV/thermal compatible applications — the optical design and mounting footprint accommodate night vision and thermal imaging systems for specialised hunting setups.

Warranty and support

The Trace ED 1-10x24 is covered by the Triple A Lifetime Warranty: any owner, any problem, always covered. The warranty transfers to subsequent owners, so it stays with the optic rather than the original purchaser.

For warranty claims, technical support, or product registration, contact ZeroTech Optics directly through their official documentation library or customer support channels. Specific claim procedures and contact details are not published — reach out to the manufacturer directly.

ZeroTech Optics: brand heritage and philosophy

ZeroTech Optics has fifty-plus years of Australian optical engineering behind it. The brand tests its products in demanding environments and holds its documentation to the same standard: no shortcuts, no guesswork, no compromises.

The Trace ED series sits alongside the Thrive HD riflescope range and the Vengeance spotting scope line. Proprietary reticle designs — the RMG, ZeroPlex, and PHR — are engineered specifically for ZeroTech's optical platforms rather than borrowed from generic designs.

Setup and field use

Mounting and zero establishment

Mount the Trace ED 1-10x24 on a 34mm scope ring system suited to your rifle platform. Torque rings to manufacturer specifications and centre the optic in the rings to preserve maximum elevation and windage adjustment range.

Zero at your preferred distance — typically 100 metres for hunting rifles. Use the 0.1 MRAD turret clicks to dial in elevation and windage. Once zero is confirmed, engage the zero stop to lock the elevation turret at that reference point.

Magnification selection in the field

At 1x, the 39.1-metre field of view suits rapid target acquisition and fast-moving game. The RMG-L reticle stays fine and unobtrusive at this setting, keeping the sight picture clean.

As distance increases or precision demands rise, increase magnification. At 10x, the 3.91-metre field of view concentrates the sight picture for extended-range work, and the RMG-L scales proportionally so holdover and wind correction references remain accurate.

Illumination in low-light conditions

Turn on illumination at dawn, dusk, in overcast conditions, or in heavily shaded terrain where the reticle starts to disappear. The digital push-button lets you adjust brightness without shifting your grip. Start at a lower brightness setting and increase as needed — too much brightness can wash out image contrast rather than improve it.

Parallax considerations

Parallax is fixed at 100m. At that distance, the reticle and target image sit on the same focal plane, so minor eye position changes won't shift the apparent reticle position relative to the target.

At distances well inside or well outside 100m, some parallax error may appear if eye position shifts. For hunting and general shooting this is typically negligible, but maintaining consistent eye relief and head position is good practice regardless.

Specifications not provided by manufacturer

The following are not published by ZeroTech Optics for this product:

- Overall length - Fogproof gas type (nitrogen or argon) - Light transmission percentage - Twilight factor
- Diopter adjustment range - Close focus distance - Sunshade inclusion - Mounting system inclusion - Product manual availability - Customer support contact information - Warranty claim procedures - Product registration procedures - Authorised retailer network

Contact ZeroTech Optics directly through their official documentation library or customer support channels for any of the above.

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 ED 1-10x24 LPVO FFP RMG-L Illuminated Riflescope - **Brand:** ZeroTech - **Product code:** TRED11024F-IR - **Price:** AUD \$999.00 - **Availability:** In stock - **Condition:** New - **Magnification range:** 1–10x - **Objective lens diameter:** 24mm - **Focal plane:** First focal plane (FFP) - **Reticle:** RMG-L Illuminated (LPVO specific) - **Illumination control:** Digital push-button - **Main tube diameter:** 34mm - **Main tube material:** 6061-T6 aluminium - **Lens coating:** Fully multi-coated (FMC) - **ED glass:** Yes - **Eye relief:** 94mm - **Field of view at 100m:** 39.1m (1x) — 3.91m (10x) - **Exit pupil diameter:** 8.6mm

(1x) — 2.4mm (10x) - **Parallax setting:** Fixed at 100m - **Elevation adjustment range:** 35 MRAD - **Windage adjustment range:** 15 MRAD - **Turret click value:** 0.1 MRAD - **Zero stop:** Yes - **Elevation turret:** Locking with zero stop - **Waterproof rating:** IPX7 - **Weight:** 727g - **Color:** Black - **Included accessories:** Aluminium flip-up lens covers, removable throw lever, neoprene scope cover, microfibre cleaning cloth - **Warranty:** Triple A Lifetime Warranty (any owner, any problem, always covered; transferable) - **Manufacturer:** ZeroTech Optics (Australia)

General product claims - Suitable for AR/MSR platforms, scrub/bush hunting, and NV/thermal compatible applications - Tested in the world's most demanding environments - Backed by fifty-plus years of Australian optical engineering heritage - Brand philosophy: precision, clarity, and unbeatable value for money - Content standard: no shortcuts, no guesswork, no compromises - Product lines include Thrive HD (riflescopes), Trace ED (binoculars and riflescopes), and Vengeance (spotting scopes) - Proprietary reticle designs include RMG, ZeroPlex, and PHR reticles

Related Products & Brand Context

The ZeroTech Trace ED 1-10x24 LPVO FFP RMG-L Illuminated Rifle Scope sits within ZeroTech's optics catalogue, a brand focused on rifle scopes and optical equipment for sporting and outdoor shooting applications. ZeroTech is the parent brand behind this product, and the Trace ED line represents their approach to combining premium glass technology with practical field features in a compact package. The knowledge graph does not currently contain sibling product records to compare directly, so specific Trace ED variants or other ZeroTech scope models cannot be named here beyond what the linked entity confirms.

Within the category of Rifle Scopes & Optics under Sporting Goods & Outdoor Equipment, this scope occupies the LPVO (Low Power Variable Optic) segment — specifically a 1-10x magnification range with a first focal plane (FFP) reticle. The FFP design means the RMG-L reticle scales proportionally with magnification, keeping holdover markings accurate at any power setting. The true 1x lower end makes it viable for close-quarters use, while the 10x upper end extends practical ranging capability. The ED (Extra-low Dispersion) glass is intended to reduce chromatic aberration and improve colour fidelity compared to standard glass, placing this model toward the higher-performance end of the LPVO category.

Someone purchasing this scope is likely to also need mounting hardware — specifically a suitable 34mm scope mount or ring set compatible with their rifle's rail system, since the scope body diameter determines mount compatibility. A torque wrench designed for scope mounting is a common companion purchase to ensure correct installation without over-tightening. Beyond mounting, users frequently look for bore-sighting tools to assist with initial zeroing, and a quality cleaning kit for lens maintenance — though the product does include a microfiber cleaning cloth in the box. Those using this scope in low-light or dawn/dusk conditions may also consider a compatible weapon light or infrared laser, given the scope's illuminated reticle suggests use in variable lighting environments.