

Trace ED 8x45 PrecisionView Binoculars

Canonical:

<https://zerotech-optics.directory.norg.ai/sports-outdoors/optical-equipment/trace-ed-8x45-precisionview-binoculars/>

Description:

ZeroTech Trace ED 8x45 PrecisionView Binoculars deliver ED glass clarity, 90 percent light transmission and rugged waterproof performance for hunting and wildlife. Features premium ED glass and Abbe-Koenig prisms for exceptional clarity, contrast and brightness. With 8x magnification and 45mm objective lens, offering the widest field of view in the Trace range at 135 metres per 1000 metres. Fully waterproof and fog-proof housing with ergonomic rubber armour for long-term field use.

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Price: 1059.0 AUD

Brand: ZeroTech

Availability: out_of_stock

[View Product](<https://zerotech.com.au/p/8x45ed/>)

Product Intelligence

Trace ED 8x45 Binoculars: Technical Details, Specifications, and Features ## Product Overview The **Trace ED 8x45** is a premium binocular optical instrument manufactured by ZeroTech, designed for hunters, wildlife observers, and outdoor enthusiasts who demand high clarity observation with exceptional field performance. These binoculars feature 8x magnification and 45mm objective lenses, combining advanced optical technology with durable construction suitable for demanding outdoor environments. ## Key Technical Specifications ### Magnification and Optical Design The Trace ED 8x45 features **8x magnification** paired with **45mm objective lenses**, providing an optimal balance between light-gathering capability and portability. The 8x magnification offers steady viewing with minimal hand vibration, while the 45mm objective lenses provide superior light transmission compared to smaller diameter alternatives. ### Optical Glass Technology The binoculars incorporate **ED (Extra-low Dispersion) glass** as a core optical component. This advanced glass technology serves to **enhance clarity and reduce chromatic aberration**, ensuring superior image quality across the full field of view. The ED glass formulation is fundamental to delivering the sharp, color-accurate imagery that professional hunters and wildlife observers require. ### Prism System The Trace ED 8x45 is equipped with an **Abbe-Koenig prism system**, a sophisticated optical design that contributes to the instrument's overall optical performance and light transmission efficiency. ### Light Transmission Performance These binoculars achieve **light transmission of over 90%**, maintaining bright visuals in

low-light conditions. This exceptional light transmission is achieved through multi-coated optical surfaces and the advanced prism system, making the Trace ED 8x45 particularly effective during dawn and dusk observation periods when wildlife activity is typically highest. ## Physical Specifications and Ergonomics ### Weight and Portability The Trace ED 8x45 weighs **975 grams**, providing a balanced weight distribution that supports comfortable extended viewing sessions without excessive fatigue during field use. ### Field of View The binoculars provide a **field of view of 7.7 degrees** (or 405 feet at 1000 yards), offering an expansive observation area that facilitates tracking and locating distant subjects while maintaining detailed magnification. ### Exit Pupil Diameter The exit pupil diameter measures **5.78 millimeters**, affecting optical performance and user experience by determining brightness and the optimal viewing distance from the eyepiece. ### Eye Relief The Trace ED 8x45 provides **18.3 millimeters of eye relief**, allowing comfortable viewing for users whether wearing or not wearing eyeglasses, accommodating a wide range of users throughout extended observation sessions. ## Construction and Durability Features ### Waterproof and Fog-Proof Design The binoculars feature **waterproof construction** suitable for use in various weather conditions, with **nitrogen purging** preventing internal fogging and maintaining optical clarity in humid environments and temperature fluctuations. ### Objective Lens Specifications The **45mm objective lens diameter** serves as the primary light-gathering component, determining critical performance characteristics including light-gathering capability, brightness, contrast, and field of view. The objective lenses are essential for image clarity across varying lighting conditions, particularly in low-light environments. ## Included Accessories The Trace ED 8x45 package includes a **high-quality microfibre cloth** for cleaning and maintaining the optical surfaces, ensuring optimal performance and longevity of the instrument throughout its service life. ## Warranty Coverage ZeroTech provides an **unconditional lifetime warranty** on the Trace ED 8x45 binoculars, reflecting the company's confidence in product durability and offering exceptional customer protection without requiring a receipt. ## Intended Applications The Trace ED 8x45 binoculars are specifically designed and recommended for: - **Hunting applications** across varied terrain and conditions - **Wildlife observation** requiring sustained field performance - **Outdoor activities** demanding reliable optical instruments - **Long-distance observation** where clarity and brightness are critical factors These binoculars represent a versatile optical solution combining adequate magnification with excellent light transmission, durable construction, and steady imaging capabilities, making them ideal for extended outdoor observation across diverse applications and lighting conditions. ### References - [1] ZeroTech Optics — Complete Brand Profile

Downloads & References

- [View Product Guide](#)