

MINOX

Riflescopes



German. Performance. Optics.

Art comes from ability ...

Since the invention of the world-famous spy camera, MINOX has become a synonym for cutting-edge technology in optics and precision mechanics, as well as for award-winning product design.

Achieving these goals requires first and foremost a great amount of diligence, discipline and creativity - qualities that even every artist must possess to create a new masterpiece.

In this catalog, we would like to introduce you to some works by Hans Lakomy, an artist who knows more than any other about "reading" scenes from nature with his unique powers of observation and transferring them masterfully onto paper, making his art quite literally tangible.





ZL3



MINOX ZL3 – Powerful and reliable

The MINOX ZL3 riflescopes deliver outstanding performance that many hunters have only dreamed of. With fantastic optical performance, thanks to fully multi-coated lenses, and reliable mechanics, the ZL3 riflescopes meet any hunter's demands for a quality piece of gear at an excellent price to performance ratio.

MINOX ZL3

These allrounders from MINOX offer a perfect combination of light weight, high reliability and powerful optics for hunters and sports shooters alike. The new ZL3 riflescopes were developed in Wetzlar, Germany, with the specific needs of the sports shooter and hunter in mind. With their high light transmission, the ZL3 riflescopes provide a bright image in twilight to allow better concentration on the target - and all this at an impressive price-performance ratio.

Comprising four different models, the ZL3 line boasts of a 1" and 3x magnification to offer the shooter the best flexibility and precision at short or longer distances. The large field of view and 3.4" eye relief allow for a quick and easy target acquisition to provide the shooter with the necessary safety and certainty to get that shot off at the decisive moment.

The functionality and robustness of the new ZL3 riflescopes make it possible to focus on the essentials and provide a solid introduction to the world of quality optics from MINOX.



ZL3 2-7x35

The universal riflescope: light, compact and versatile.



ZL3 3-9x40

High-performance optics for hunters and sports shooters.



ZL3 4-12x40

Universal riflescope for stalking. Suitable for day hunting until dusk.



ZL3 3.5-10x50

Powerful allround riflescope for sitting game and night hunting.



ZX5




ASSEMBLED
IN GERMANY

Product video



MINOX ZX5 - Convincing Performance.

MINOX has set new standards in precision, quality and reliability with its powerful riflescope models in the ZX5 product line. The 5x magnification and the 30 mm main tube offer the user maximum flexibility and precision for short and long-range shooting distances.



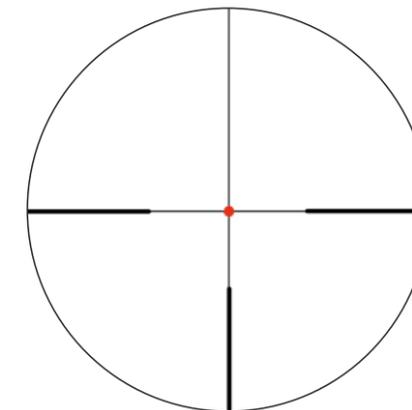
The ZX5 riflescopes with an illuminated reticle are suitable for hunting even in deep twilight conditions and enable the user to concentrate faster on the target as well as reliably gain an overview for that decisive moment.

The large field of view enables quick aiming and a reliable target acquisition. A smooth power adjustment and an easy-to-adjust rubber-armored eyepiece

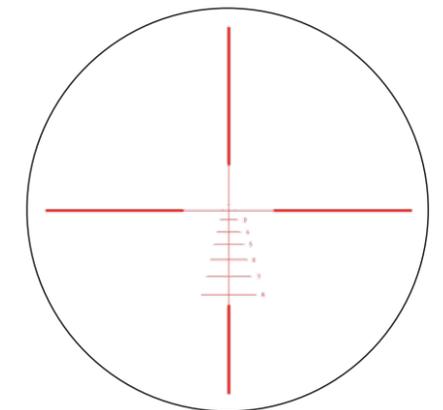
enable quick focusing on the subject in view. The extended eye relief of 100 mm is extremely beneficial to users wearing eyeglasses and when using larger calibers. The inner components of the ZX5 Line models are protected by an exceptionally shock-resistant body made of special anodized aluminum that is commonly used in general aviation applications. Purged with argon gas, fogging and corrosion on the inside of the rifle scope is effectively prevented.



Elevation and windage adjustments at 1/4 MOA per click and parallax compensation (SF models)



German #4 illuminated



BDC illuminated





ZX5i 1-5x24

Small and compact, offering a large field of view for quick aiming - perfect for dynamic lowland or mountain hunting.



ZX5i 3-15x50 SF



ZX5i 3-15x56 SF

A perfect scope for short to medium ranges, and bright enough for use even in deep twilight. Hunting in densely wooded or wide open hunting grounds, even in adverse weather conditions couldn't be easier thanks to their excellent light transmission.



ZX5i 2-10x45



ZX5i 2-10x50

Ideal for close to medium shooting ranges. Suitable for universal use during day hunts or in a raised hide in twilight.



ZX5i 5-25x50 SF



ZX5i 5-25x56 SF

With a particularly high magnification, this scope is the perfect choice for medium to long ranges. Deep twilight or early dawn hunts in open hunting areas are no longer hindrances thanks to the bright, clear image and outstanding light transmission.



ZE5.2




MADE
IN GERMANY

Product video



MINOX ZE5.2 – Precision Optics “Made in Germany”

The ZE5.2 riflescopes are especially convincing with their excellent ease of view, thanks to the innovative Fast Target Acquisition (FTA). The fine and bright Glass Fiber Point reticle is ideal for hunting even during the day. The MINOX ZE5.2 - the perfect riflescope for highest demands.

5x magnification
for maximum flexibility

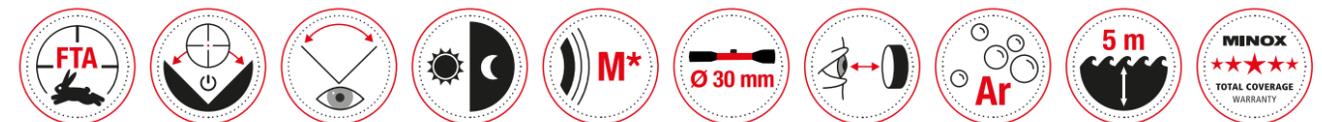
Flat elevation and windage turrets
for better handling

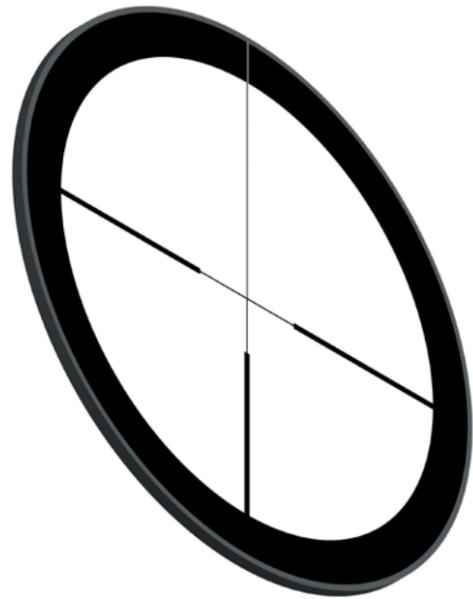


ZE5.2 2-10x50

Glass Fiber Point
ideal for hunting during daylight

Auto Power-Off
via position sensor or after 2 hours



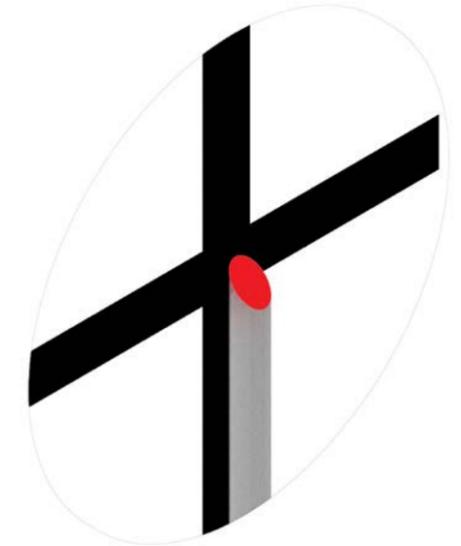


Full view of the Glass Fiber Point reticle

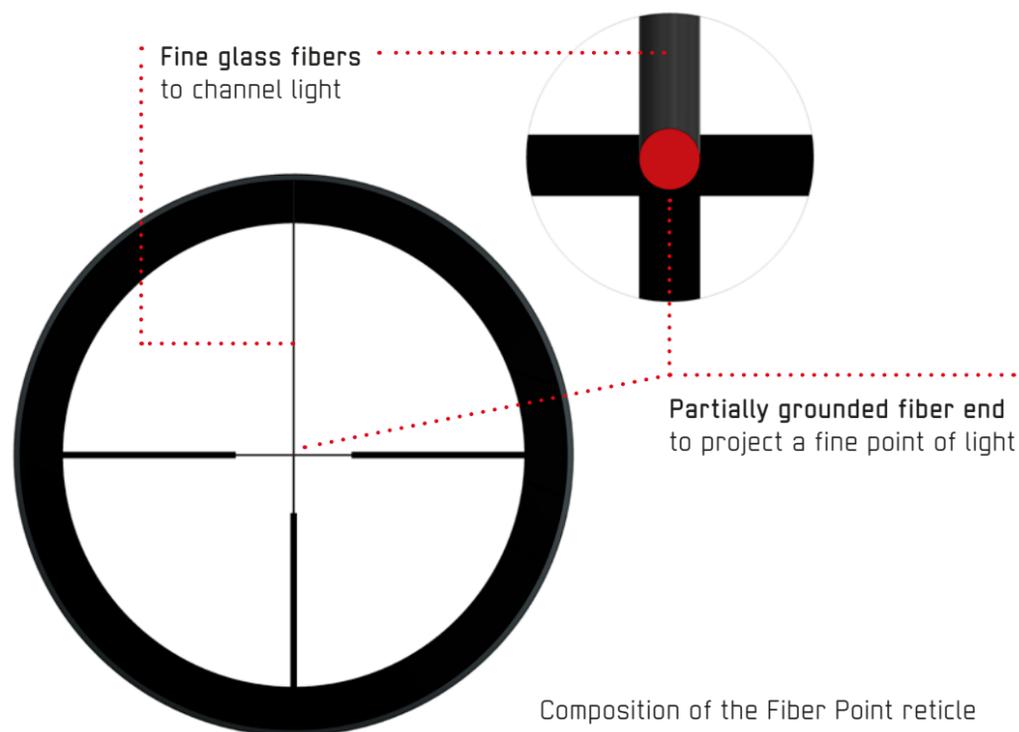
The innovative glass fiber reticle in the second image plane impresses with a homogeneously luminous circular dot, which can be adjusted perfectly to any hunting situation during the day or at night. Thanks to the greatly improved fiberglass technology, the light emitted from the LED is optimally transferred into the fine glass fiber and guided to the partially grounded end with almost no loss of light. Depending on the adjusted brightness, the light emanating from this end can be perceived as a weak spark in twilight situations, or as a clearly visible bright spot of light on the targeted game in the glaring sunlight.

Modern manufacturing procedures can produce glass fibers with diameters of less than 0.05 mm. Using a ZE5.2 3-15x56 in hunting situations, this means an overlap on the target of less than 8 mm at 100 m using a larger magnification, and of 4 cm at 100 m using a lower magnification.

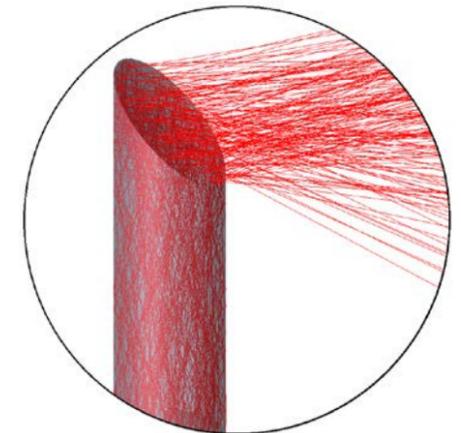
The fiberglass reticle illumination eliminates the conventional glass carrier reticle composition used in common riflescopes, which is typically constructed of a glass plate between 1.5 and 3 mm thick. The transmission of the riflescope is thus increased by about 0.5% to 1% - a prerequisite for spending a few more minutes to get that last precise shot in at dusk.



Enlarged view of the illuminated glass fiber at the reticle center

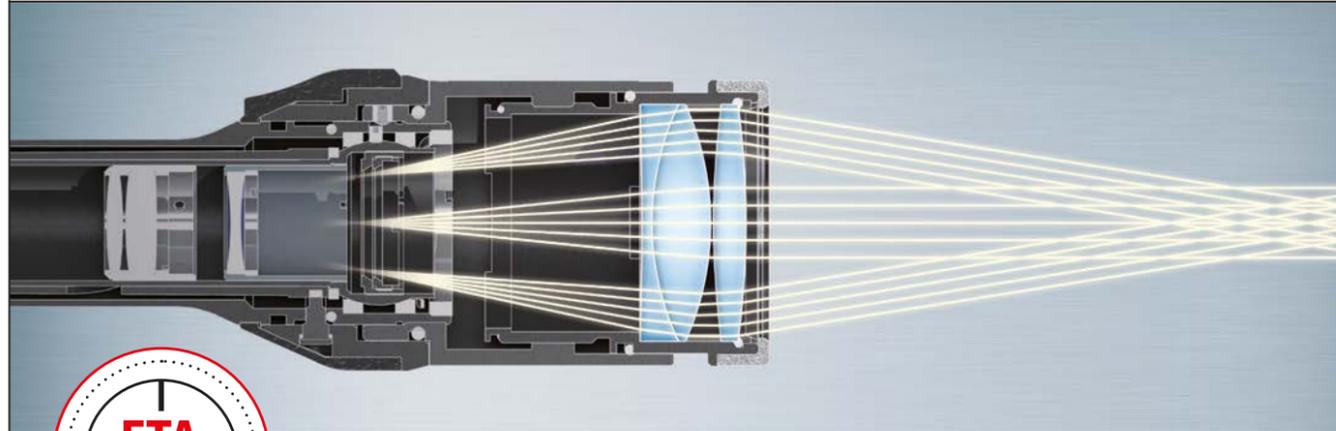


Composition of the Fiber Point reticle



Functional principle of lossless light conduction through the glass fiber

FTA – Fast Target Acquisition



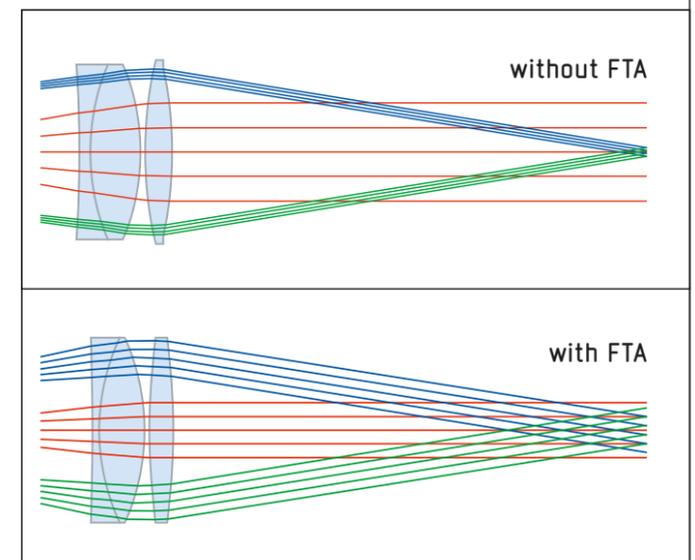
Fast and precisely on target

Even in low light conditions, it is important for the shooter to find the target quickly and easily by using optics that provide a bright, clear and shadow-free image. This can be achieved by using an optical system in which all aberrations can be reduced to a level that is less than, or at best, not substantially greater than the resolution of the human eye. The entire light energy that is transported through the scope is thus utilized to produce the best possible image within the eye. Colors or color fringing, insufficiently corrected spherical aberrations or poor light transmission can reduce the light energy needed to produce an image at one particular spot or plane.

To guarantee a perfect shot, the image produced by the riflescope, a firm shooting hand and the weapon must build a perfect unit to ensure a Fast Target Acquisition. Rapidly and accurately getting on target can offer that crucial time needed to successfully get the shot where you need it. The prerequisite for this is a bright, high-contrast and shadow-free field of view. Spending a lot of time trying to line up the target with your riflescope can reduce your chances of quickly getting on target for that decisive moment.

The optical design of the new MINOX ZE5.2 riflescopes has taken this factor into great consideration. Compared to previous models, the vignetting has been reduced by up to 90 % to create an exceptionally bright and sharp image all the way to the outer edges of the field of view.

With the increased size of the exit pupil, the eye remains completely relaxed and can observe images without any further distractions – the eye is no longer preoccupied by attempts to adjust to the field of view before even getting on target – The Fast Target Acquisition system gets the shooter quickly and precisely on target.





ZE5.2 1-5x24

With large field of view for quick aiming. Incredibly light and uniquely compact for dynamic lowland or mountain hunting.



ZE5.2 3-15x56

The ultimate bright scope for use in deep twilight. Universal and flexible for short, medium and long ranges in densely wooded and wide open hunting grounds. Excellent light transmission to extend the decisive moment.



ZE5.2 2-10x50

The universal riflescope for close to medium shooting ranges. Suitable for flexible use, whether for dynamic hunting during the day or a raised hide in twilight.



ZE5.2 5-25x56

Uncompromisingly bright for all ranges. The perfect scope for use in deep twilight and especially long distances in open hunting areas.



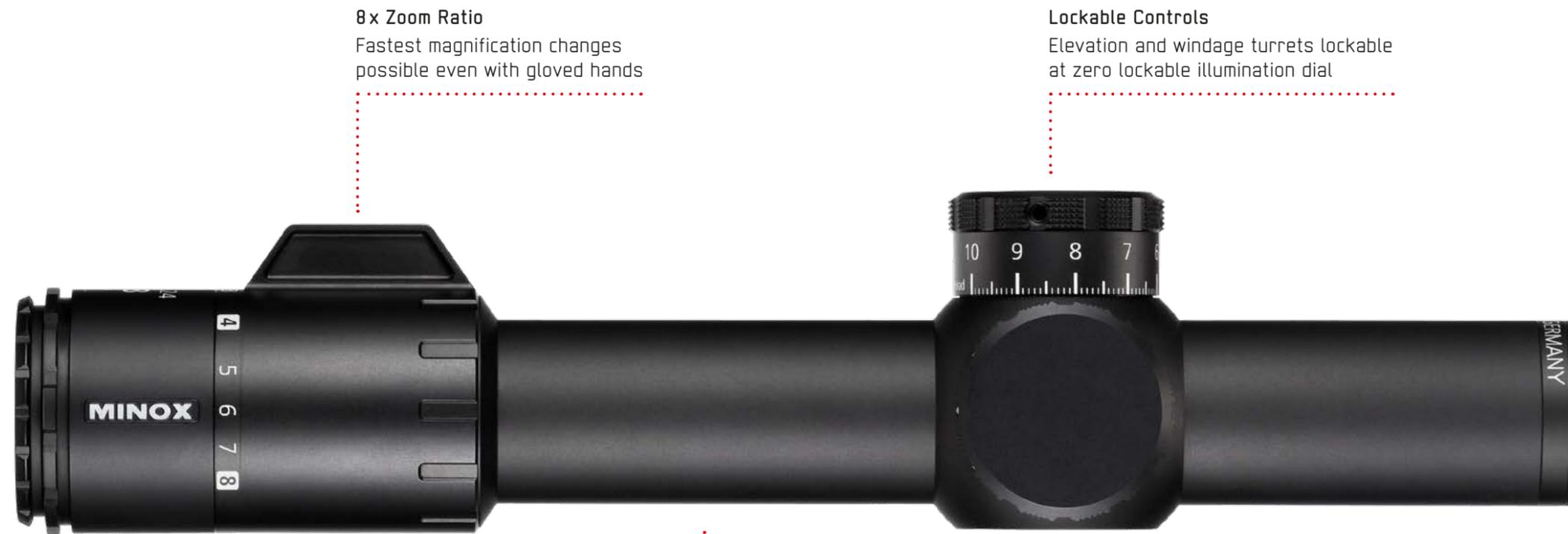
ZP



MINOX ZP – For professional requirements.

Reliable service is a result of many factors – with the ZP series MINOX delivers a line of riflescopes that combine mechanical precision, optical quality and ruggedness at the highest level.

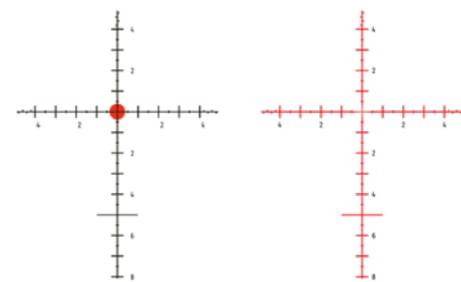
All that combined with innovative, practical features that allow the user to always stay in control even under adverse conditions. The result are scopes that are purpose-built to master the challenges of professional use under extreme conditions.



8 x Zoom Ratio
Fastest magnification changes possible even with gloved hands

Lockable Controls
Elevation and windage turrets lockable at zero lockable illumination dial

CCR Reticle



The Reticle system found in the ZP8 consists of a unique combination of a daylight bright red dot in the second focal plane and a twilight illuminated reticle in the first focal plane. Changeover is automatic during a change in magnification. Between

the 1x and 2.5x magnification, the illuminated dot is activated. Beyond that, the twilight reticle illumination is activated, which illuminates the entire inner area of the reticle to enable full usage of all main reticle functions by night.

CCR Reticle System
Daylight-bright red dot in the second focal plane, automatic changeover depending on the magnification setting



Purpose-built features for the mission

It's not just the 8x zoom and the unique reticle system, the ZP8 also convinces with its ease of operation and practical features.

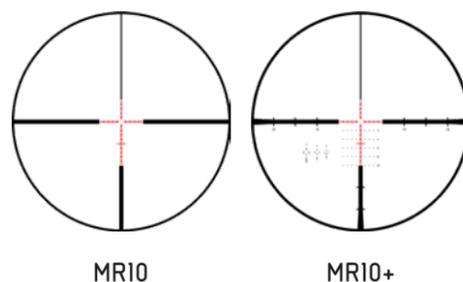


Lockable illumination
Illumination dial lockable at any setting.

Lockable zero setting
Locked position indicates zero setting. White indicator line visible in unlocked position.

Significant magnification values
Black on white for easily setting and checking magnification under adverse lighting conditions.

High speed vario fin
Rapid magnification changes with one single movement. For reliable operation in wet and cold conditions and with gloved hands. Full metal design.



ZP Product Features

- Precise mechanics and rugged construction for repeatability under harsh conditions
- 34 mm main tube with solid wall thickness made from aircraft grade aluminum
- Very large field of view and highest image quality even at the edges of the field of view thanks to complex optical design and use of special glass types
- M* multi-coating on the optical elements provides excellent light transmission, contrast and colour rendition
- Generous eye relief of 90 mm for use on large caliber rifles
- Quick and reliable operation under low light conditions due to ergonomic design of the controls
- Fast-focus eyepiece can be secured against accidental adjustment
- Tough flip-up caps for objective and ocular (included)
- Sophisticated reticles for every application, illumination with automatic shut-off after 3 h
- Argon gas purged: Waterproof down to 15 m and fogproof

Double turn indicators
White marks on both sides of the turret base indicate second revolution, visible for right- and left-handed shooters and the spotter.

Flush battery compartment cap
Opening and loss of battery, can be opened with a variety of tools.

Quick-adjust parallax dial
180° of rotation with visual reference marks.



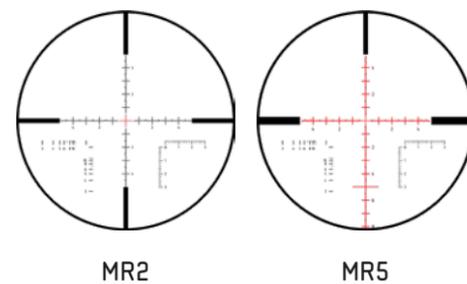
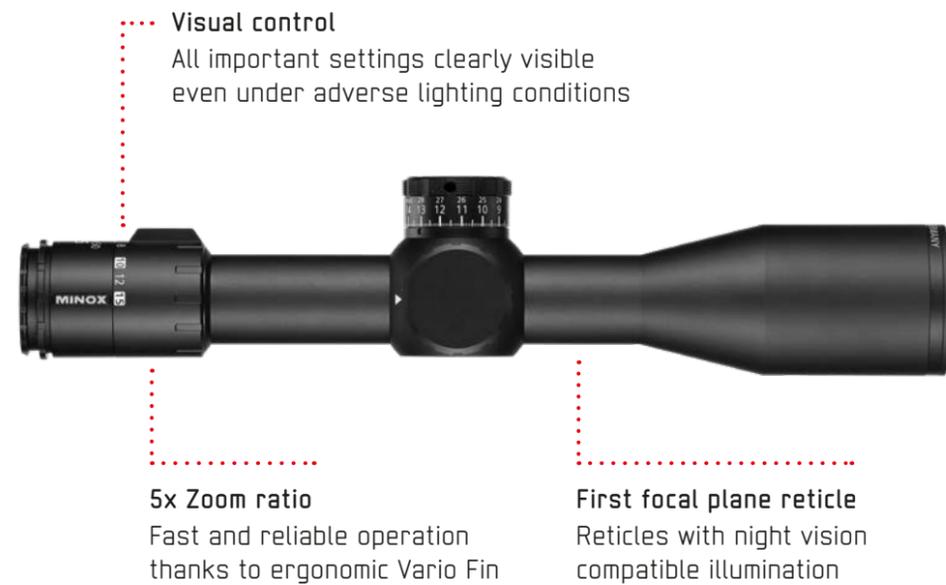
Ergonomic dials
Nonslip knurling for reliable operation in wet and cold conditions and with gloved hands.

Practical labeling
Compatible with ballistic programs, aligned to the right for usability without breaking the cheek weld. Large numbers for optimal visibility.

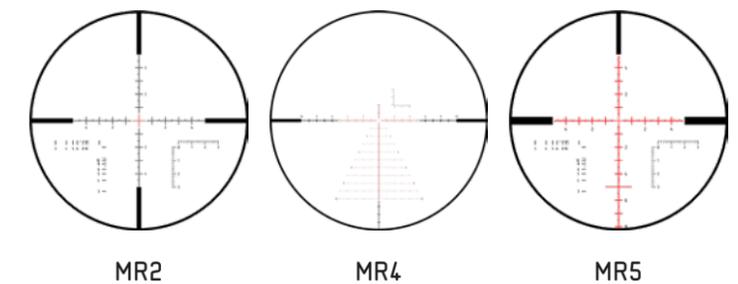
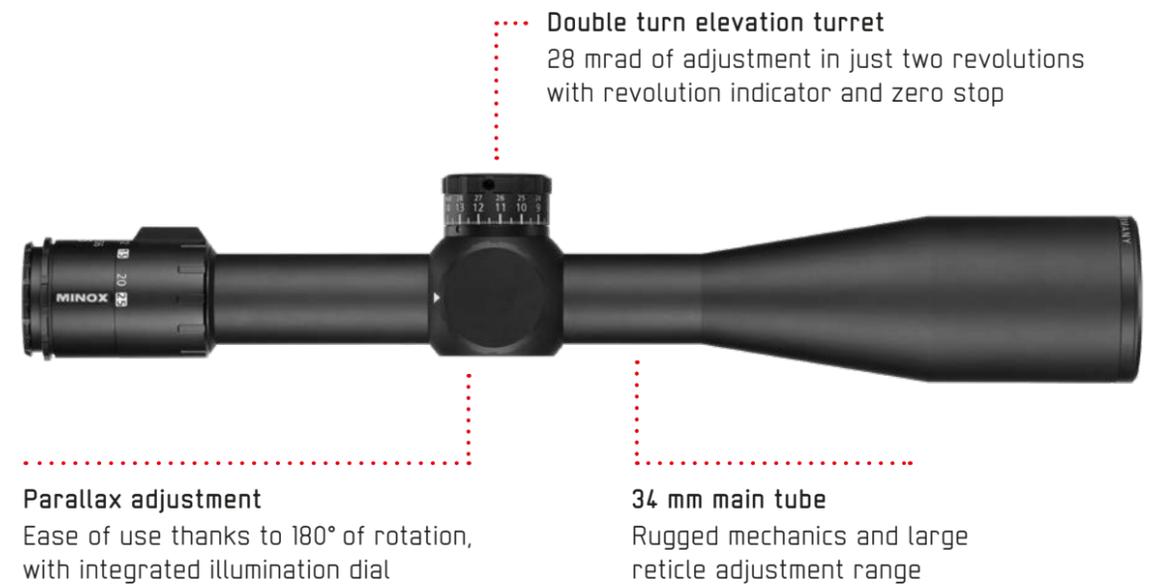
The ZP5 3-15x50 is the universal riflescope with a wide range of use. The 3x magnification offers a large field of view for operations at closer range whereas the 15x magnification guarantees the necessary reach when needed.

The ZP5 5-25x56 is the long range riflescope for every situation where excellent detail recognition at extreme shooting ranges is required, while providing the best possible field of view at 5x magnification.

ZP5 3-15x50



ZP5 5-25x56



ZP5 Product Features

- 5x zoom ratio with large field of view
- Sophisticated reticles in the first focal plane with finely dimmable illumination
- 28 mrad double turn elevation with zero stop and visible indicator for the second revolution
- Parallax adjustment from 50 m to infinity within 180° of rotation

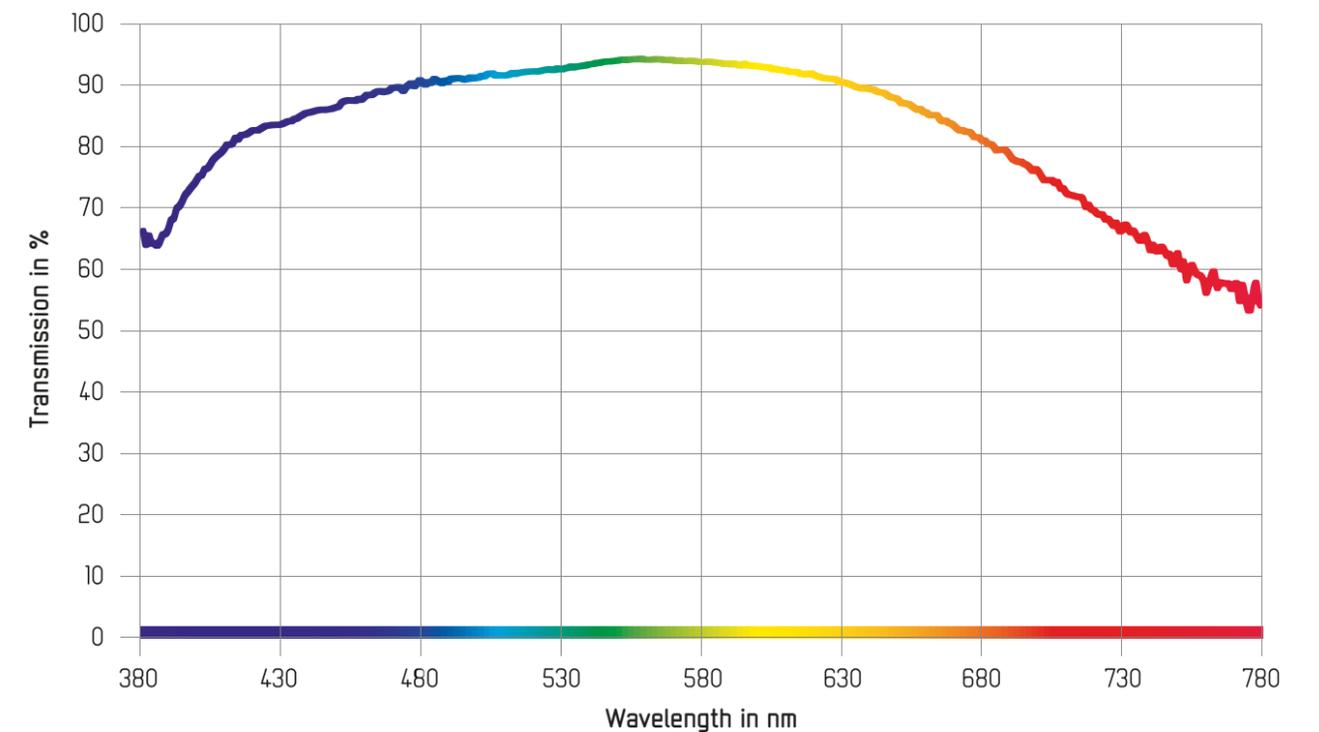


Transmission

MINOX riflescopes provide an excellent light transmission thanks to highly transmissive glass materials and an elaborated coating concept.

Maximal transmission values of up to 92% and a cleverly balanced transmission curve over the visible spectrum allow for an outstanding performance under different ambient light conditions. With their brilliant image, rich in detail in the bright sunlight and with an excellent contrast during twilight, MINOX riflescopes offer unique and unforgettable hunting experiences with highly accurate targeting and precise shots.

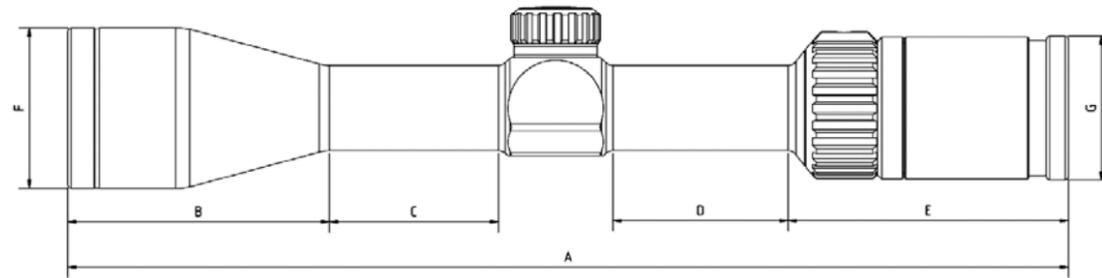
Depending on the time of the day and the respective light conditions, long-wave red light or short-wave blue light of the visible spectrum are dominant. The sensitivity of the human eye takes a maximum in the middle of the visible spectrum according to the v-lambda curve. Taking these physical principles into consideration, highly transmissive glass materials were used, and specific multi-layer coatings have been applied to all lenses such that an optimal and constant visual impression under varying light conditions is guaranteed: Both, day- and night-transmission gain values of up to 91%. Optimal conditions for a successful raised stand hunt.



Technical Data

| MINOX ZL3 | ZL3 2-7x35 | ZL3 3-9x40 | ZL3 3.5-10x50 | ZL3 4-12x40 |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| Magnification | 2-7 x | 3-9 x | 3.5-10 x | 4-12 x |
| Objective diameter (mm) | 35 | 40 | 50 | 40 |
| Exit pupil diameter low / high (mm) | 12.0 / 5.0 | 12.0 / 4.4 | 12.0 / 5.0 | 10.0 / 3.3 |
| Field of view low / high (m at 100 m) | 20.0 / 5.9 | 14.0 / 4.7 | 11.4 / 4.0 | 10.3 / 3.5 |
| Eye relief (mm) | 85 | 85 | 85 | 85 |
| Diopter adjustment range | - 2.0 / + 1.5 | - 2.0 / + 1.5 | - 2.0 / + 1.5 | - 2.0 / + 1.5 |
| Elevation and windage adjustage (per click) | 1/4 MOA (7.5 mm at 100 m) |
| Reticle adjustment range (elevation and windage) | +/- 50 MOA | +/- 35 MOA | +/- 32.5 MOA | +/- 30 MOA |
| Illuminated reticle | No | No | No | No |
| Reticle | PLEX | PLEX | PLEX | PLEX |
| Focal plane | 2nd | 2nd | 2nd | 2nd |
| Power supply for the illuminated reticle | -- | -- | -- | -- |
| Holder for two batteries | -- | -- | -- | -- |
| Argon filling | -- | -- | -- | -- |
| Nitrogen filling | Yes | Yes | Yes | Yes |
| Fogproof, waterproof | Yes | Yes | Yes | Yes |
| Main tube diameter (mm) | 25,4 (1") | 25,4 (1") | 25,4 (1") | 25,4 (1") |
| Overall length (mm) | 303 | 305 | 325 | 312 |
| Weight (g) | 390 | 395 | 440 | 395 |
| MINOX Total Coverage Warranty | Yes | Yes | Yes | Yes |
| Order number | 66658 | 66659 | 66660 | 66661 |

Dimensions in mm/inch.



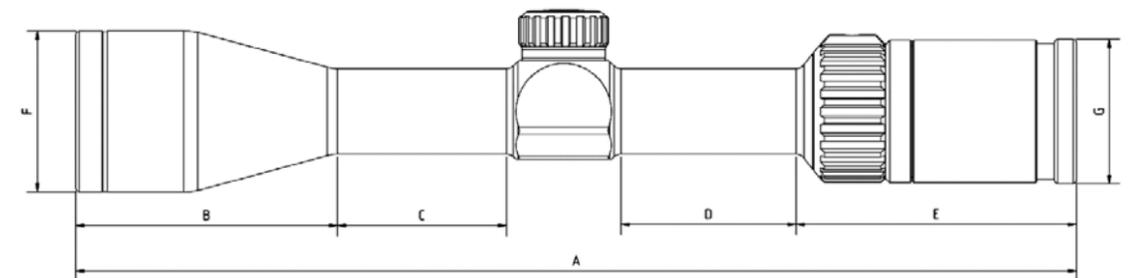
Schematic illustration

| | ZL3 2-7x35 | ZL3 3-9x40 | ZL3 3.5-10x50 | ZL3 4-12x40 |
|---|---------------|---------------|---------------|---------------|
| A | 299.8 / 11.80 | 330.5 / 13.01 | 321.5 / 12.66 | 308.6 / 12.15 |
| B | 85.0 / 3.35 | 78.6 / 3.09 | 99.6 / 3.92 | 78.6 / 3.09 |
| C | 43.6 / 1.72 | 50.7 / 2.00 | 50.7 / 2.00 | 59.5 / 2.34 |
| D | 52.6 / 2.07 | 52.6 / 2.07 | 52.6 / 2.07 | 51.9 / 2.04 |
| E | 84.2 / 3.31 | 84.2 / 3.31 | 84.2 / 3.31 | 84.2 / 3.31 |
| F | 43.5 / 1.71 | 47.9 / 1.89 | 58.0 / 2.28 | 47.9 / 1.89 |
| G | 43.0 / 1.69 | 43.0 / 1.69 | 43.0 / 1.69 | 43.0 / 1.69 |

Technical Data

| MINOX ZX5 | 1-5x24 | 2-10x45 | 2-10x50 | 3-15x50 SF | 3-15x56 SF | 5-25x50 SF | 5-25x56 SF |
|--|---------------------------|-----------------|-----------------|-------------------------|---------------------------|-------------------------|-------------------------|
| Magnification | 1-5 x | 2-10 x | 2-10 x | 3 - 15 x | 3 - 15 x | 5 - 25 x | 5-25 x |
| Objective diameter (mm) | 24 | 45 | 50 | 50 | 56 | 50 | 56 |
| Exit pupil diameter low / high (mm) | 11.4 / 4.8 | 11.4 / 4.5 | 11.4 / 5.0 | 11.4 / 3.3 | 11.4 / 3.7 | 10.0 / 2.0 | 11.2 / 2.2 |
| Field of view low / high (m at 100 m) | 37.1 / 8.2 | 18.9 / 4.0 | 18.9 / 4.0 | 11.9 / 2.6 | 11.9 / 2.6 | 7.2 / 1.6 | 7.5 / 1.6 |
| Eye relief (mm) | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 | ~ 100 |
| Diopter adjustment range | - 3.0 / + 2.5 | - 3.0 / + 2.5 | - 3.0 / + 2.5 | - 3.0 / + 2.5 | - 3.0 / + 2.5 | - 3.0 / + 2.5 | - 3.0 / + 2.5 |
| Elevation and windage adjustage (per click) | 1/4 MOA (7.5 mm at 100 m) | | | | 1/8 MOA (3.7 mm at 100 m) | | |
| Reticle adjustment range (elevation and windage) | +/- 38 MOA | +/- 38 MOA | +/- 38 MOA | +/- 20 MOA | +/- 20 MOA | +/- 13 MOA | +/- 13 MOA |
| Illuminated reticle | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Reticle | #4 | #4 | #4 | #4 or BDC | #4 or BDC | #4 or BDC | #4 or BDC |
| Focal plane | 2nd | 2nd | 2nd | 2nd | 2nd | 2nd | 2nd |
| Power supply for the illuminated reticle | Battery CR 2032 | Battery CR 2032 | Battery CR 2032 | Battery CR 2032 | Battery CR 2032 | Battery CR 2032 | Battery CR 2032 |
| Holder for two batteries | No | No | No | No | No | No | No |
| Argon filling | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Nitrogen filling | -- | -- | -- | -- | -- | -- | -- |
| Fogproof, waterproof | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Main tube diameter (mm) | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Overall length (mm) | 285 | 335 | 335 | 372 | 372 | 430 | 430 |
| Weight (g) | 485 | 630 | 655 | 740 | 770 | 770 | 800 |
| MINOX Total Coverage Warranty | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Order number | 66645 | 66653 | 66647 | 66655 (#4), 66639 (BDC) | 66649 (#4), 66613 (BDC) | 66657 (#4), 66643 (BDC) | 66651 (#4), 66618 (BDC) |

Dimensions in mm/inch.

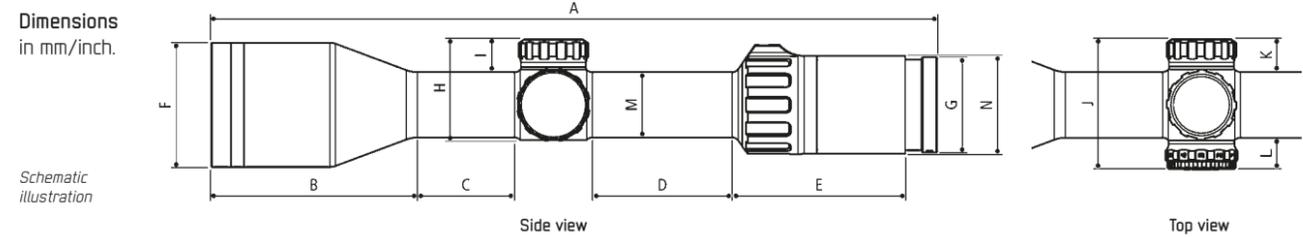


Schematic illustration

| | 1-5x24 | 2-10x45 | 2-10x50 | 3-15x50 SF | 3-15x56 SF | 5-25x50 SF | 5-25x56 SF |
|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| A | 258.0 / 11.2 | 335.0 / 13.2 | 335.0 / 13.2 | 372.0 / 14.6 | 372.0 / 14.6 | 430.0 / 16.9 | 430.0 / 16.9 |
| B | -- / -- | 57.0 / 3.7 | 57.0 / 3.7 | 124.0 / 4.9 | 124.0 / 4.9 | 136.0 / 5.4 | 136.0 / 5.4 |
| C | 95.0 / 3.5 | 46.0 / 1.8 | 46.0 / 1.8 | 46.0 / 1.8 | 46.0 / 1.8 | 82.0 / 3.2 | 82.0 / 3.2 |
| D | 61.0 / 2.4 | 61.0 / 2.4 | 61.0 / 2.4 | 70.0 / 2.8 | 70.0 / 2.8 | 70.0 / 2.8 | 70.0 / 2.8 |
| E | 99.0 / 3.9 | 99.0 / 3.9 | 99.0 / 3.9 | 99.0 / 3.9 | 99.0 / 3.9 | 99.0 / 3.9 | 99.0 / 3.9 |
| F | 30.0 / 1.2 | 52.0 / 2.0 | 57.0 / 2.2 | 62.0 / 2.2 | 57.0 / 2.4 | 43.0 / 2.2 | 43.0 / 2.4 |
| G | 43.0 / 1.7 | 43.0 / 1.7 | 43.0 / 1.7 | 43.0 / 1.7 | 43.0 / 1.7 | 43.0 / 1.7 | 43.0 / 1.7 |

Technical Data

| MINOX ZE5.2 | 1-5x24 | 2-10x50 | 3-15x56 | 5-25x56 |
|--|-------------------|-------------------|-------------------|-------------------|
| Magnification | 1-5 x | 2-10 x | 3-15 x | 5-25 x |
| Objective diameter (mm) | 24 | 50 | 56 | 56 |
| Exit pupil diameter low / high (mm) | 11.4 / 4.8 | 11.4 / 5.0 | 11.4 / 3.7 | 11.2 / 2.2 |
| Field of view (m at 100 m) | 37.1 / 8.2 | 18.9 / 4.0 | 11.9 / 2.6 | 7.5 / 1.6 |
| Eye relief (mm) | ~ 100 | ~ 100 | ~ 100 | ~ 100 |
| Diopter adjustment range | - 3.0 / + 2.5 | - 3.0 / + 2.5 | - 3.0 / + 2.5 | - 3.0 / + 2.5 |
| Elevation and windage adjustage (per click) | 1 cm / 100 meters |
| Reticle adjustment range (elevation and windage) | ± 115 cm / 100 m | ± 115 cm / 100 m | ± 60 cm / 100 m | 40 cm / 100 m |
| Illuminated reticle | Yes | Yes | Yes | Yes |
| Reticle | #4 | #4 | #4 | #4 |
| Focal plane | 2nd | 2nd | 2nd | 2nd |
| Power supply for the illuminated reticle | Battery CR 2032 | Battery CR 2032 | Battery CR 2032 | Battery CR 2032 |
| Holder for two batteries | Yes | Yes | Yes | Yes |
| Argon filling | Yes | Yes | Yes | Yes |
| Nitrogen filling | -- | -- | -- | - |
| Fogproof, waterproof | Yes | Yes | Yes | Yes |
| Main tube diameter (mm) | 30 | 30 | 30 | 30 |
| Overall length (mm) | 285 | 335 | 372 | 430 |
| Weight (g) | 480 | 650 | 760 | 845 |
| MINOX Total Coverage Warranty | Yes | Yes | Yes | Yes |
| Order number | 66620 | 66622 | 66623 | 66625 |

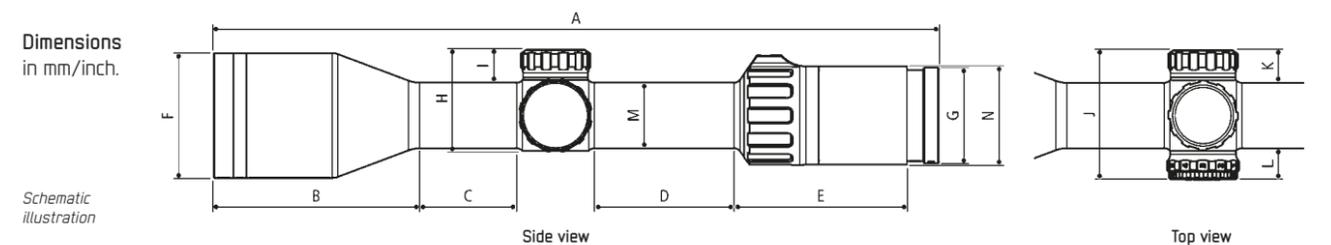


| | | | | |
|---|---------------|---------------|---------------|---------------|
| A | 285.6 / 11.24 | 334.3 / 13.16 | 371.5 / 14.63 | 424.4 / 16.71 |
| B | -- / -- | 95.0 / 3.74 | 124.4 / 4.90 | 137.8 / 5.43 |
| C | 89.7 / 3.53 | 44.6 / 1.76 | 43.1 / 1.70 | 79.8 / 3.14 |
| D | 64.4 / 2.54 | 64.4 / 2.54 | 73.6 / 2.90 | 73.6 / 2.90 |
| E | 95.5 / 3.76 | 94.3 / 3.71 | 94.5 / 3.72 | 97.2 / 3.83 |
| F | 30.0 / 1.18 | 57.0 / 2.24 | 62.0 / 2.44 | 62.0 / 2.44 |
| G | 44.5 / 1.75 | 44.5 / 1.75 | 44.5 / 1.75 | 44.5 / 1.75 |
| H | 46.4 / 1.83 | 46.3 / 1.82 | 46.4 / 1.83 | 46.3 / 1.82 |
| I | 15.2 / 0.60 | 15.1 / 0.59 | 15.2 / 0.59 | 15.1 / 0.59 |
| J | 59.6 / 2.35 | 59.5 / 2.34 | 67.7 / 2.67 | 66.9 / 2.63 |
| K | 15.2 / 0.60 | 15.1 / 0.59 | 15.2 / 0.60 | 15.2 / 0.60 |
| L | 14.5 / 0.57 | 14.5 / 0.57 | 22.6 / 0.89 | 21.8 / 0.86 |
| M | 30.0 / 1.18 | 30.0 / 1.18 | 30.0 / 1.18 | 30.0 / 1.18 |
| N | 45.0 / 1.77 | 45.0 / 1.77 | 45.0 / 1.77 | 45.0 / 1.77 |

Technical Data

| MINOX ZP | 3-15x50 | 5-25x56 | 1-8x24 |
|--|-----------------------------------|---------------------------------------|-----------------------------------|
| Magnification | 3-15 x | 5-25 x | 1-8 x |
| Objective diameter (mm) | 50 | 56 | 24 |
| Exit pupil diameter low / high (mm) | 11.5 / 3.33 | 12.0 / 4.4 | 10.3 / 3.0 |
| Field of view low / high (m at 100 m) | 12.8 / 2.8 | 14.0 / 4.7 | 37.5 / 4.8 |
| Eye relief (mm) | 90 | 90 | 90 |
| Diopter adjustment range | - 3.0 / + 2.5 | - 3.0 / + 2.5 | - 3.0 / + 2.5 |
| Elevation and windage adjustage (per click) | 0.1 mrad | 0.1 mrad | 0.1 mrad |
| Reticle adjustment range (elevation and windage) | 28 mrad (elev), +/- 6 mrad (wind) | 28 mrad (elev), +/- 6 mrad (wind) | 10 mrad (elev), +/- 5 mrad (wind) |
| Illuminated reticle | Yes | Yes | Yes |
| Reticle | MR2, MR5 | MR2, MR4, MR5 | MR10, MR10+ |
| Focal plane | 1st | 1st | 1st* |
| Power supply for the illuminated reticle | Battery CR 2032 | Battery CR 2032 | Battery CR 2032 |
| Holder for two batteries | -- | -- | -- |
| Argon filling | Yes | Yes | Yes |
| Nitrogen filling | -- | -- | -- |
| Fogproof, waterproof | Yes | Yes | Yes |
| Main tube diameter (mm) | 34 | 34 | 34 |
| Overall length (mm) | 345 | 415 | 295 |
| Weight (g) | 920 | 970 | 695 |
| MINOX Total Coverage Warranty | Yes | Yes | Yes |
| Order number | 66595 (MR2), 66596 (MR5) | 66598 (MR2), 66602 (MR4), 66599 (MR5) | 66591 (MR10), 66590 (MR10+) |

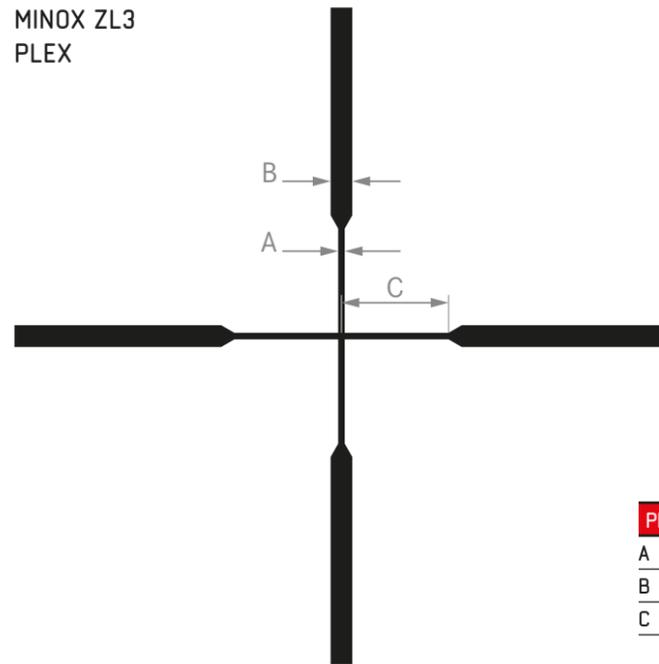
*at 1x to 2.5x magnification, a daylight red dot will be activated in the 2nd focal plane.



| | | | |
|---|-------------|--------------|-------------|
| A | 345 / 13.58 | 415 / 16.34 | 295 / 11.61 |
| B | 114 / 4.49 | 162.6 / 6.40 | - / - |
| C | 45 / 1.77 | 51.7 / 2.04 | 71.5 / 2.81 |
| D | 68 / 2.68 | 79.6 / 3.13 | 79.8 / 3.14 |
| E | 64 / 2.52 | 70 / 2.76 | 98.1 / 3.86 |
| F | 57 / 2.24 | 62 / 2.44 | 34 / 1.34 |
| G | 44 / 1.73 | 44 / 1.73 | 45 / 1.77 |
| H | 68 / 2.68 | 53.3 / 2.10 | 57.2 / 2.25 |
| I | 29.3 / 1.15 | 29.3 / 1.15 | 23.2 / 0.91 |
| J | 93 / 3.66 | 93 / 3.66 | 87 / 3.19 |
| K | 25.3 / 1.00 | 25.3 / 1.00 | 23.2 / 0.91 |
| L | 35 / 1.38 | 35 / 1.38 | 35 / 1.38 |
| M | 34 / 1.34 | 34 / 1.34 | 34 / 1.34 |
| N | 45.3 / 1.78 | 45.3 / 1.78 | 45.3 / 1.78 |

Reticle Subtensions

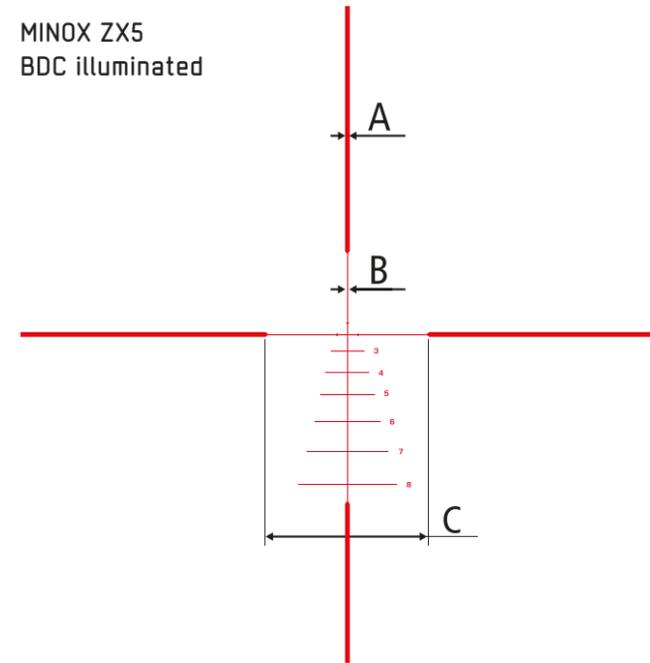
MINOX ZL3
PLEX



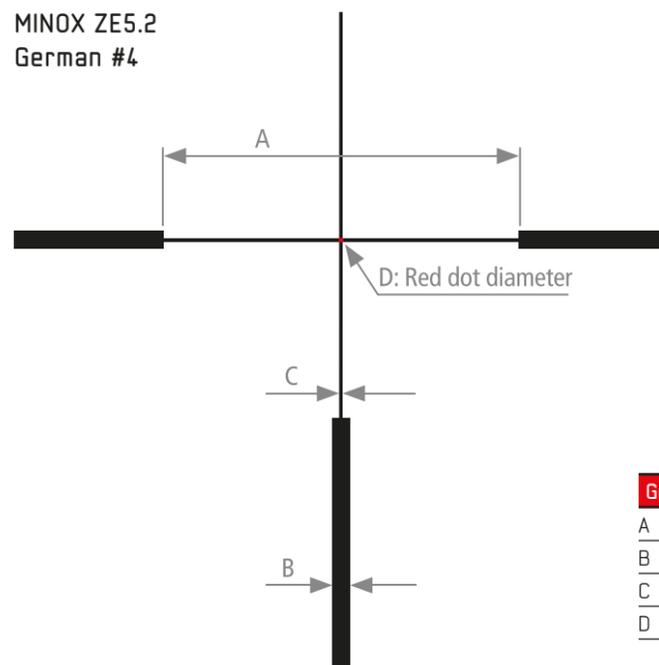
| PLEX | 2-7x35 | 3-9x40 | 3.5-10x50 | 4-12x40 |
|------|--------|--------|-----------|---------|
| A | 0.33 | 0.25 | 0.23 | 0.19 |
| B | 1.09 | 0.84 | 0.75 | 0.63 |
| C | 5.43 | 4.2 | 3.77 | 3.14 |

All dimensions in MOA at maximum magnification

MINOX ZX5
BDC illuminated



MINOX ZE5.2
German #4



| German #4 | 1-5x24 | 2-10x50 | 3-15x56 | 5-25x56 |
|-----------|--------|---------|---------|---------|
| A | 200 | 100 | 66,6 | 40 |
| B | 10 | 5 | 3,3 | 2 |
| C | 2 | 1 | 0,7 | 0,4 |
| D | 2 | 1 | 0,7 | 0,4 |

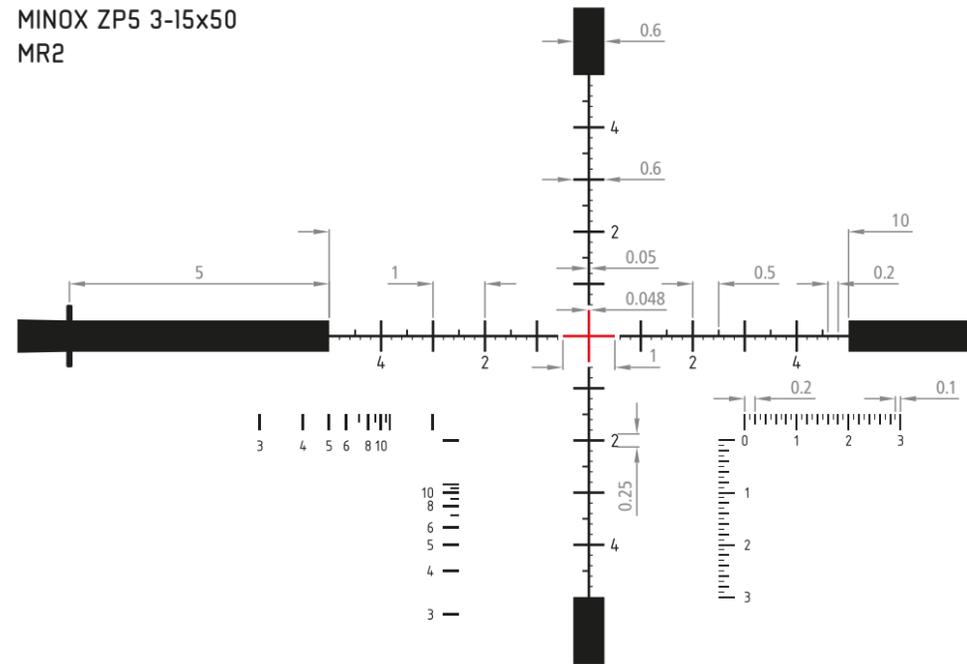
All dimensions in cm at 100 meters at maximum magnification

| BDC illuminated | 2-10x at 10x | | 3-15x at 15x | | 5-25x at 15x | |
|-----------------|--------------|----------|--------------|----------|--------------|----------|
| | MOA | cm/100 m | MOA | cm/100 m | MOA | cm/100 m |
| A | 0,7 | 2,1 | 0,5 | 1,4 | 0,5 | 1,4 |
| B | 0,2 | 0,6 | 0,1 | 0,4 | 0,1 | 0,4 |
| C | 10,1 | 29,3 | 6,7 | 19,6 | 6,7 | 19,6 |
| 100 yard mark | 1,2 | 3,5 | 1,2 | 3,5 | 1,2 | 3,5 |
| 200 yard | + | + | + | + | + | + |
| 300 yard line | 2,0 | 5,8 | 2,0 | 5,8 | 2,0 | 5,8 |
| 400 yard line | 4,4 | 12,8 | 4,4 | 12,8 | 4,4 | 12,8 |
| 500 yard line | 7,1 | 20,7 | 7,1 | 20,7 | 7,1 | 20,7 |
| 600 yard line | 10,1 | 29,3 | 10,1 | 29,3 | 10,1 | 29,3 |
| 700 yard line | 13,3 | 38,8 | 13,3 | 38,8 | 13,3 | 38,8 |
| 800 yard line | 17,0 | 49,6 | 17,0 | 49,6 | 17,0 | 49,6 |

All dimensions in cm at 100 meters

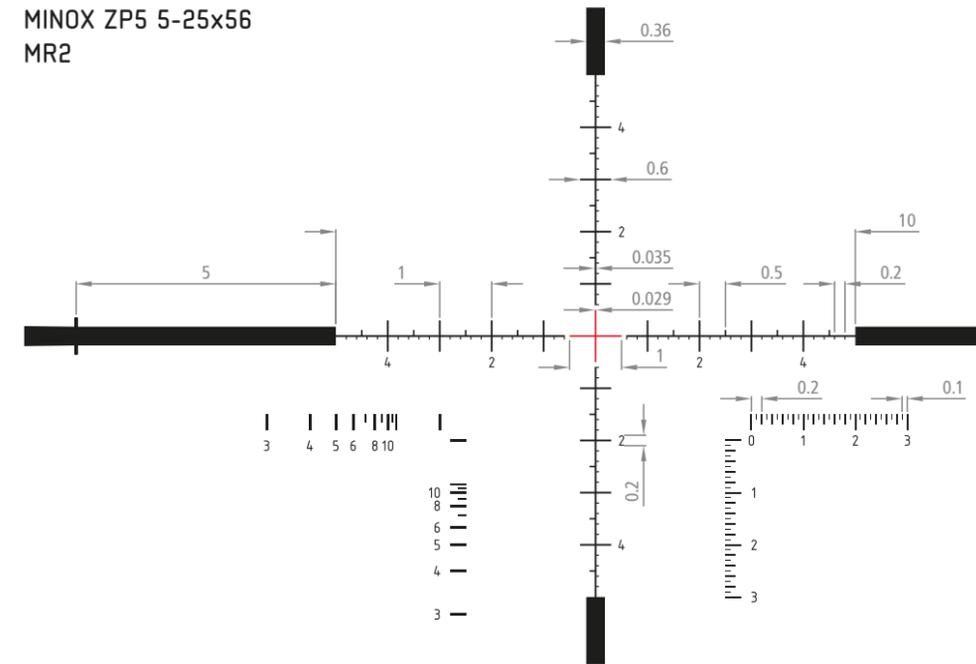
Reticle Subtensions

MINOX ZP5 3-15x50
MR2



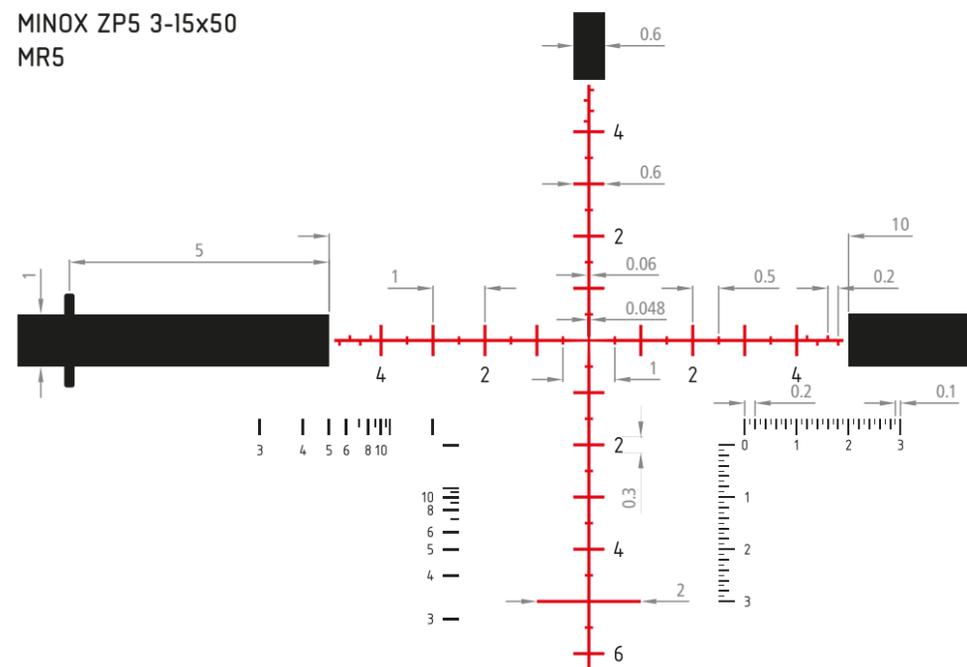
All dimensions in mrad

MINOX ZP5 5-25x56
MR2



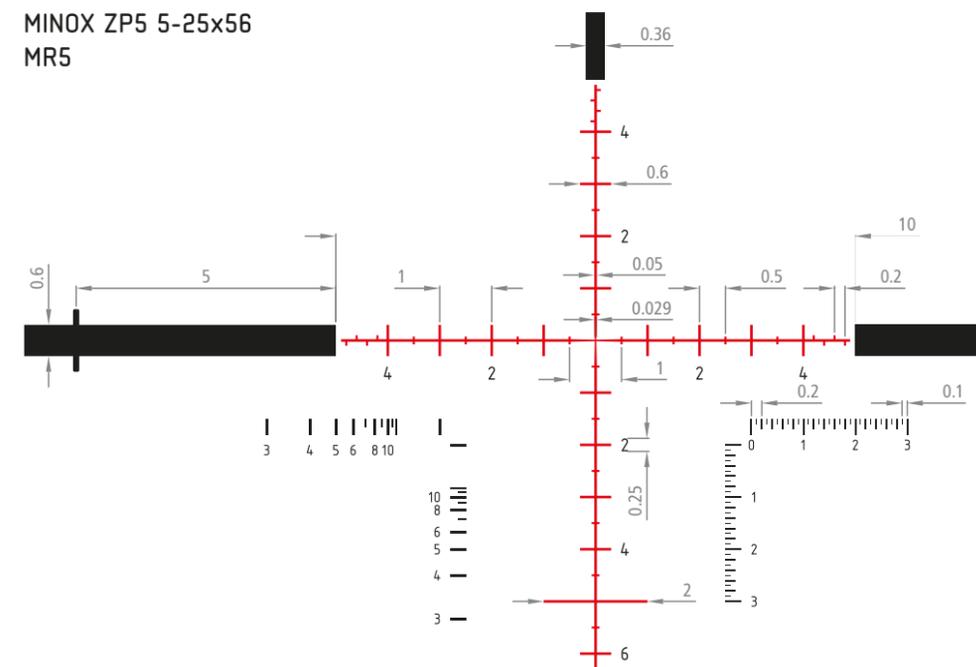
All dimensions in mrad

MINOX ZP5 3-15x50
MR5



All dimensions in mrad

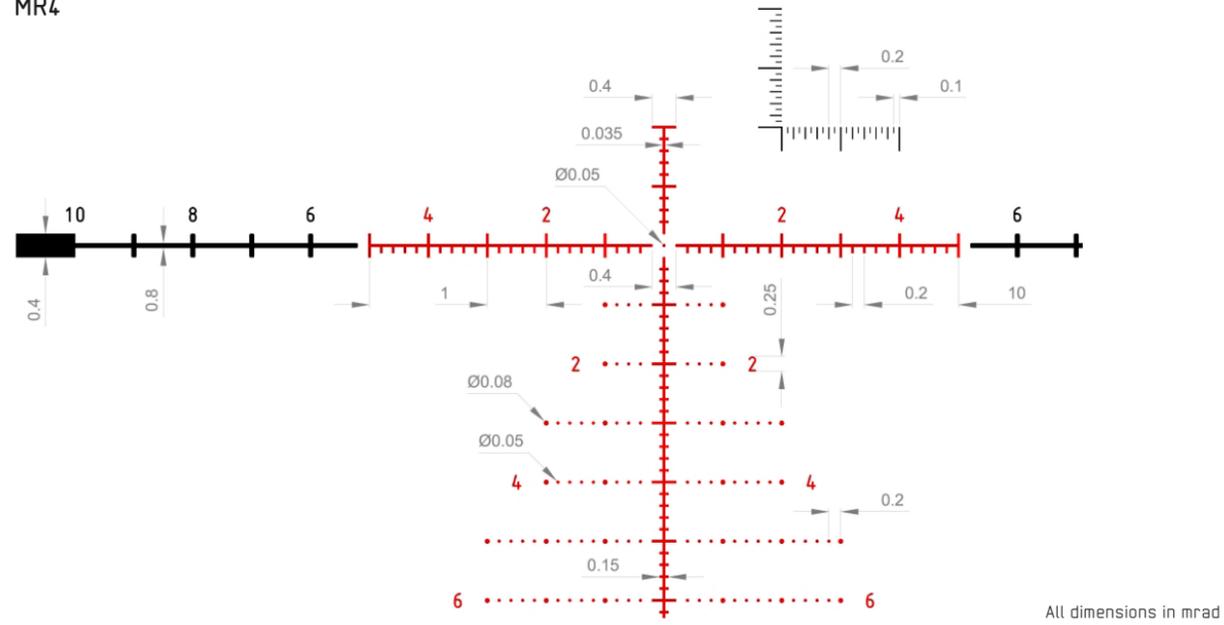
MINOX ZP5 5-25x56
MR5



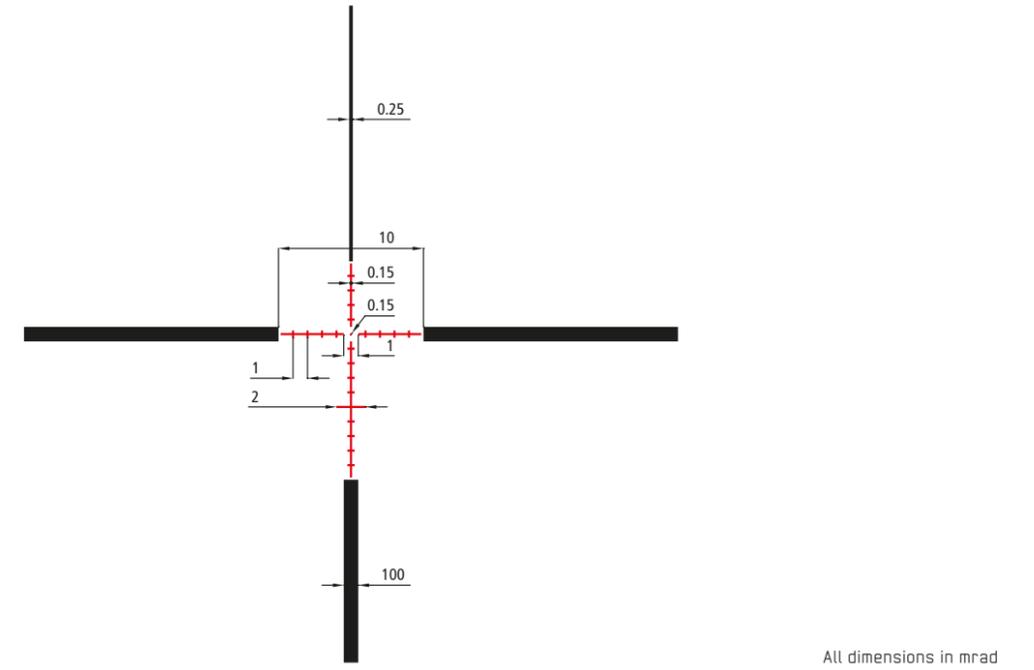
All dimensions in mrad

Reticle Subtensions

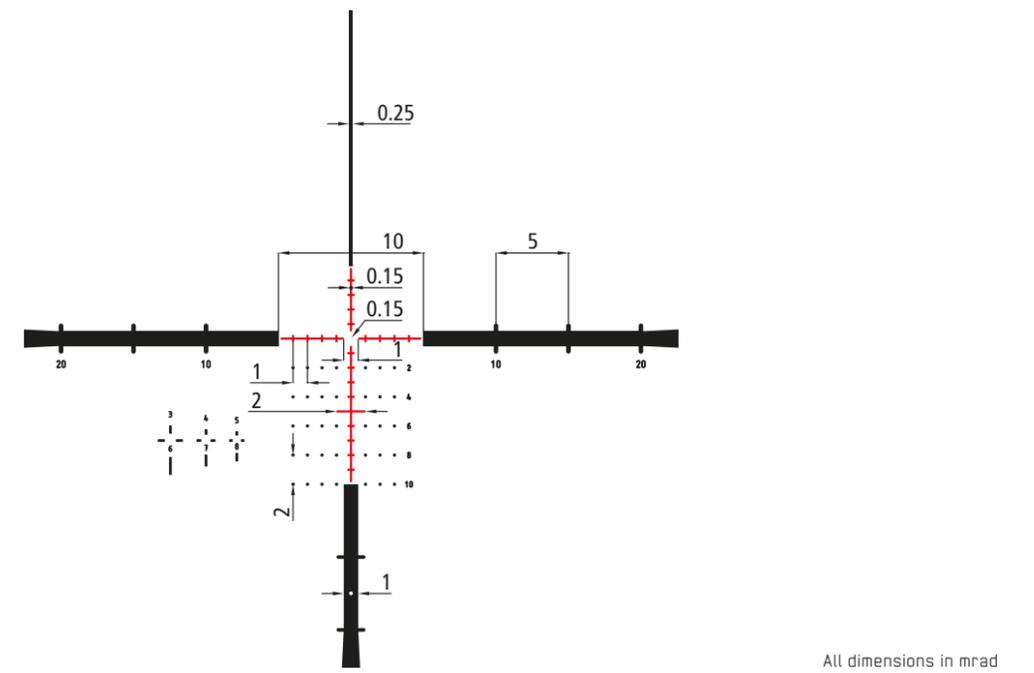
MINOX ZP5 5-25x56
MR4



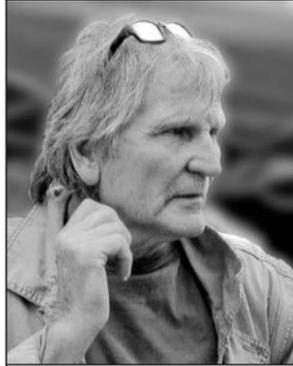
MINOX ZP8 1-8x24
M10



MINOX ZP8 1-8x24
M10+



Hans Lakomy - Vita



Born on November 9, 1946 in the small northern German town of Cramme, about 35 miles away from Hannover.

Hans Lakomy grew up experiencing the annual agricultural rhythms of his small-town idyll. Hard work, sowing and harvesting determined the daily life in the plain postwar family home - he was always there, when winter provisions were brought in from field and forest. And so grew his passionate love for the countryside and the world of animals.

With concentrated effort and self-criticism, Lakomy dedicated himself to observe and study regional

animals in their natural environment. Cautiously entering his well-known territories, he finds rich prey to eyes and ears, which are then converted through his wealth of experience into art.

Presenting the beauty of nature as he finds it, fulfillment and personal concern are the main objectives in drawing attention to the wonderful creation we live in, and to bring it closer to the people of our time.

A painting by Lakomy should bring joy and food for thought to the viewer. A contribution to a change of thought on how to preserve nature, in which people can only live if flora and fauna have their place in it.

Hans Lakomy is an autodidact, a painter out of passion.



Legendary precision and characteristic innovation.

MINOX - a German brand with a long tradition and decades of experience - is a manufacturer of optical and high quality fine mechanics precision led by the vision and values of famous German engineering culture.

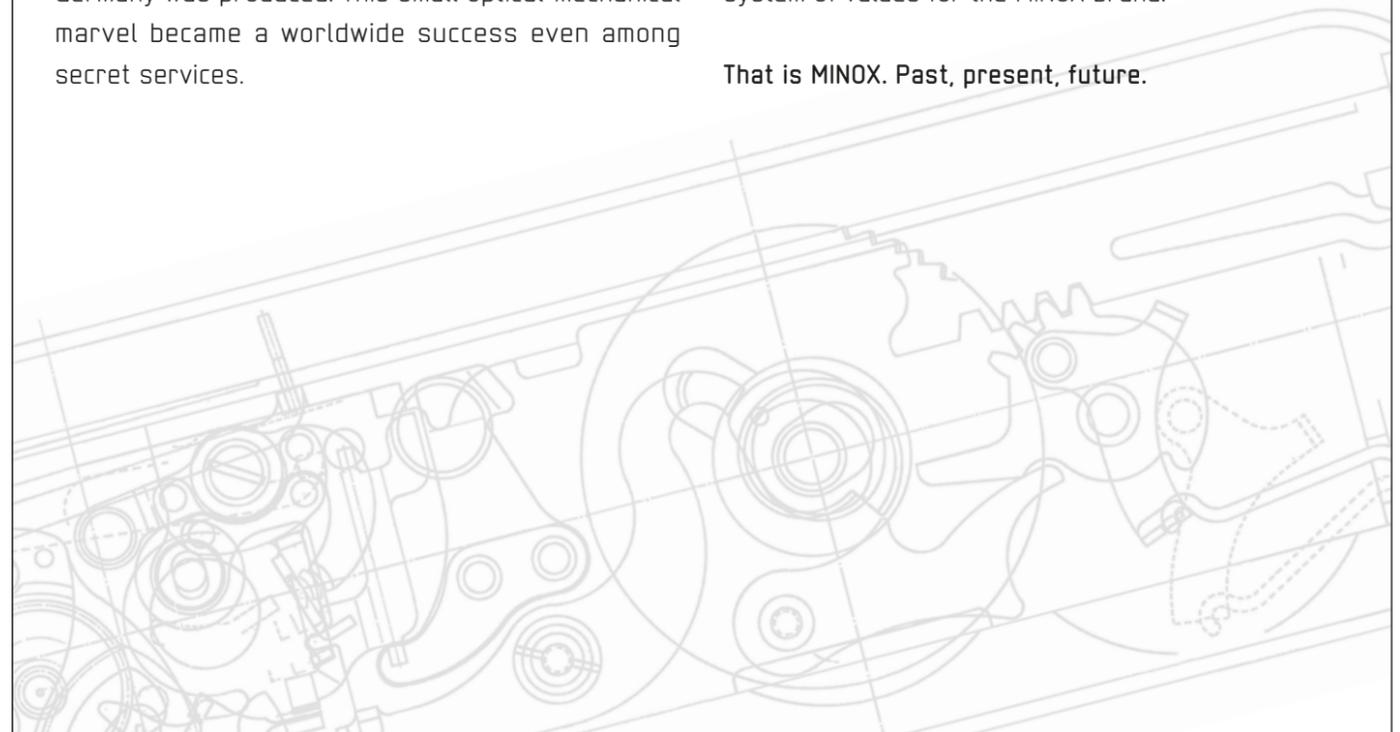
1922 - the Baltic German, Walter Zapp had the idea of a camera so small that it could be hidden in the hand. In 1938, the first MINOX from Riga appeared on the market.

In 1948 the first MINOX sub-miniature camera Made in Germany was produced. This small optical-mechanical marvel became a worldwide success even among secret services.

Today, the MINOX brand has firmly established itself in the field of hunting and sport optics with a core focus in the development and production of high-quality binoculars, riflescopes, night vision devices, as well as game and surveillance cameras.

Uncompromising in design and production, the maximum possible excellence and precision is emphasized. Utmost quality, precision, solidity and longevity - these are the achievements of German engineering and constitute the system of values for the MINOX brand.

That is MINOX. Past, present, future.

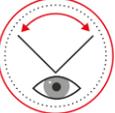


Product features

| | ZL3 | ZX5 | ZE5.2 | ZP |
|--|-----|----------------|----------------|----------------|
| 8x Magnification | | | | ● ¹ |
| 5x Magnification | | ● | ● | ● |
| 3x Magnification | ● | | | |
| Main tube 34 mm | | | | ● |
| Main tube 30 mm | | ● | ● | |
| Main tube 1 inch | ● | | | |
| High-tech special glass | | ● | ● | ● |
| MINOTEC multi-coating | | | ● | ● |
| Fast Target Acquisition FTA | | | ● | |
| Reticle at the 1st focal plane | | | | ● |
| Reticle at the 2nd focal plane | ● | ● | ● | ● ¹ |
| Parallax compensation | | ● ² | ● ² | ● ³ |
| Illuminated reticle | | ● | ● | ● |
| Glass Fiber Point reticle | | | ● | |
| 11-level reticle illumination | | | | ● ³ |
| 9-level reticle illumination | | ● | | |
| 8-level reticle illumination | | | ● | |
| Automatic deactivation of illumination | | ● | ● | ● |
| Position sensor | | | ● | |
| Waterproof down to 15 m (49 ft.) | | | | ● |
| Waterproof down to 5 m (16 ft.) | | ● | ● | |
| Waterproof down to 1 m (3 ft.) | ● | | | |
| Argon gas purged | | ● | ● | ● |
| Nitrogen gas purged | ● | | | |
| Low profile towers | | | ● | |
| MINOX Total Coverage Warranty | ● | ● | ● | ● |

¹ 1-8x24
² 3-15x56 / 5-25x56
³ 3-15x50 / 5-25x56

Features/Highlights

- 
Generous eye relief
- 
FTA Fast Target Acquisition
- 
Large field of view
- 
Rich contrast
- 
Position sensor
- 
Excellent light transmission
- 
M* multi-coating
- 
Argon purged
- 
Nitrogen purged
- 
Main tube diameter 1 inch
- 
Main tube diameter 30 mm
- 
Main tube diameter 34 mm
- 
Shock resistance
- 
Waterproof 1 m
- 
Waterproof 5 m
- 
Waterproof 15 m
- 
Total coverage warranty



Please visit our website www.minox.com
Here you can find further information about
the products described in this catalog and
the complete range of MINOX products.

Blaser USA
403 East Ramsey, Suite 301 · San Antonio, Texas 78216
e-mail: minox@blaser-usa.com · www.minox.com
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