

Ready for competition.

With premium first
focal plane riflescopes.

ZEISS

Seeing beyond



**ZEISS LRP S5 and LRP S3
first focal plane riflescopes**

www.zeiss.com/precision-shooting

IN FOCUS

ZEISS LRP S5 AND LRP S3. DEVELOPED TO COMPETE.

The reticle in the riflescope can be positioned in the first or in the second image plane. Here's why ZEISS first focal plane riflescopes are especially developed for target shooting.

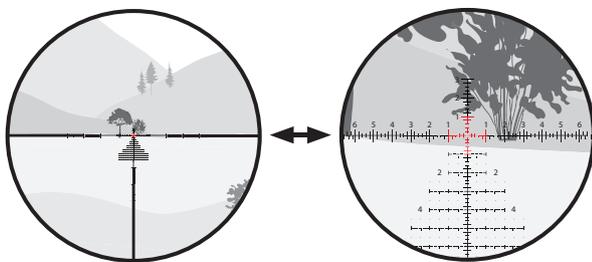


ZEISS

**First focal plane –
the reticle in the first focal plane**

A reticle in the first focal plane (in front of the inverting system) changes in the same way as the actual image. The reticle and the image combine to form a single unit, the size of both increasing or decreasing in the same way. As a result, the subtension remains constant at all magnifications, making it easy to estimate the range.

An additional property becomes evident in poor lighting: the bars and lines become wider at higher magnification, making them easier to see. Due to the simultaneous magnification of the reticle and image, the shooter always has all relevant reference numbers in view in order to shoot accurately – the ideal conditions for target shooters and competitions.



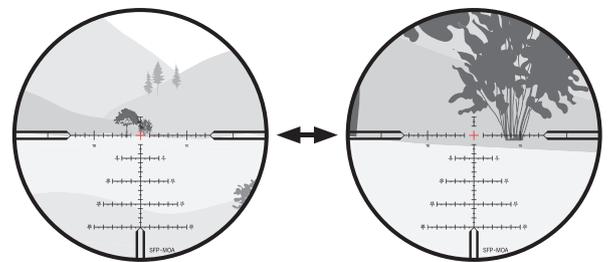
**Reticle in the first focal plane
(on the objective side):**

A change in magnification changes the view of the target and reticle at the same time, i.e., the proportions and subtension remain constant.

**Second focal plane –
the reticle in the second focal plane**

In riflescopes with the reticle in the second focal plane, the reticle is behind the inverting system, i.e., in the image plane on the eyepiece side. When the magnification changes (zoom), it does not affect the reticle, which remains constantly fine with minimal subtension – a major benefit when taking long-range shots at high magnification. However, the subtension of the reticles in the second focal plane now depends on the magnification setting. The lower the magnification (the smaller the image), the higher the subtension.

Placing the reticle in the second focal plane is more technically challenging and critical than in the first plane. The moveable parts of the inverting system must be manufactured with extremely tight tolerances to ensure that the image does not unintentionally move up or down when it is enlarged. Because the reticle is fixed in the second focal plane, it would lead to considerable deviations in the point of impact in such cases. Thanks to state-of-the-art manufacturing processes with minimal tolerances, ZEISS can also deliver maximum reliability in this regard across all riflescope classes.



**Reticle in the second focal plane
(on the eyepiece side):**

Changing the magnification only changes the view of the target. The reticle remains unchanged. The subtension changes with the magnification.



HIGH-PERFORMANCE OPTICS FOR PRECISION SHOOTING. **ZEISS LRP S5**

ZEISS has introduced the LRP S5, a completely new long-range precision (LRP) riflescope that was developed specifically for precision shooting and also impresses hunters with its maximum accuracy at long distances.

The ZEISS LRP S5 318-50 and 525-56 models represent the pinnacle of precision riflescopes available today – and made in Germany, of course. Both models feature a quick-focus eyepiece, a ballistic turret with locking function, and an external windage adjustment that can also be locked in place. The MRAD (milliradian) and MOA (minute of angle) reticles feature extremely fine lines with an open center area and an illuminated dot suitable for daylight use.

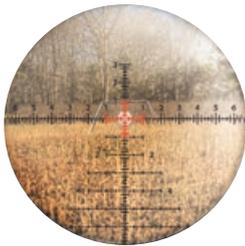
High-performance optics



Premium optical design with SCHOTT glass, fluoride glass elements, and T* coatings result in ideal target recognition, target resolution, and maximum light transmission of 90%. The LotuTec® coating ensures shooters have a clear view even in wet weather.

Daylight visible illuminated reticle

Digitally controlled diffractive reticle illumination technology delivers an exceptionally bright illuminated dot regardless of the incident light – allowing you to reliably verify the exact position of the shot on the target. The intensity is continuously adjustable.



Best-in-class total elevation travel

Thanks to the massive total elevation travel of 40.7 MRAD or 140 MOA, the ZEISS LRP S5 can be used to reliably hit targets at a distance of 1,400 meters or more.



Reliable ballistic turrets

The particularly tactile and precisely designed ballistic turrets offer maximum reliability, even in stressful competitive situations.



Reticle in first focal plane

Highly intuitive design with etched and detailed graduated chrome structures. Numerical indicators and reference marks enable precise, fast aiming at the target.

Side parallax adjustment

With a setting of 25 m to infinity – larger diameter for ideal control.

PRODUCT PROFILE

MASTERFUL PRECISION. ZEISS LRP S5.



Maximum precision for competitions and hunting.

- Premium optical design.
- Best-in-class total elevation travel – 40.7 MRAD / 140 MOA.
- Exceptionally tactile ballistic towers for high repeatability.
- Quality “Made in Germany” with the highest quality materials.



S5 318-50

With its extremely large field of view, the ZEISS LRP S5 318-50 is ideal for target shooting and hunting at longer distances. The high-precision scope is the preferred choice for rifle platforms that require more compact optics with excellent performance characteristics.



S5 525-56

The riflescope is perfect for long-range shooting competitions and is an excellent choice for a variety of rifle platforms. With a higher magnification setting, the ZEISS LRP S5 525-56 is also ideal for target shooting, ammunition testing, ammunition development, and hunting at long ranges.



Turrets



MRAD



MOA



MRAD



MOA

Elevation turret

The turret incorporates a mechanically lifting design that allows for multi-turn functionality, with more than four complete rotations of total elevation adjustment value. Depending on the configuration of the scope, the adjustment values on the turret are indicated in milliradians (MRAD) or minutes of angle (MOA).

External locking windage turret (ELWT)

The turret incorporates a multi-turn functionality, with approximately two complete rotations of total windage adjustment value. The locking function protects the turret against accidental adjustment.

ZEISS FFP RETICLES

MILLIRADIAN: ZF-MRi.

The ZF-MRi reticle was designed specifically for competitions. The milliradian (MRAD) reticle incorporates a “tree-style” primary structure with useful hash marks, dots, and reference numbers – without the clutter. The points of aim and holds are represented in 0.02, 0.05, and 1.0 MRAD increments; and even numbers are displayed for fast and intuitive visual reference.

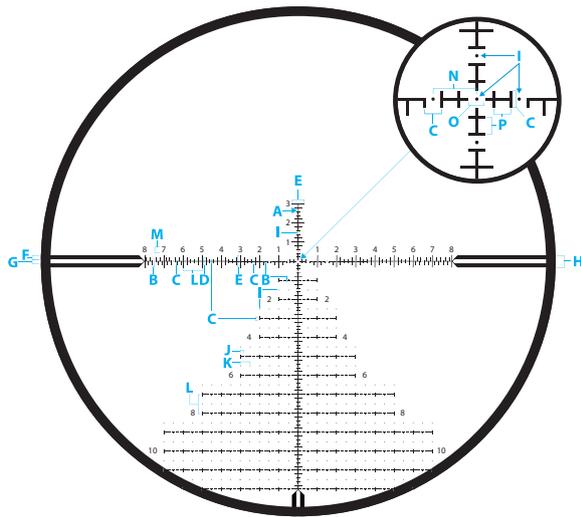


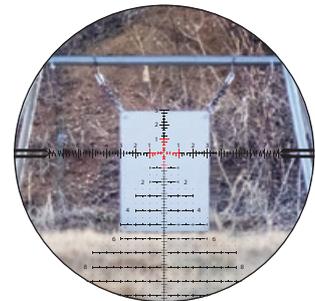
Image above is for illustration purposes.

LRP S5	318-50	525-56		
Unit of measure	MRAD		Distance J	0.2
Line thickness A	0.04	0.03	Distance K	0.5
Distance B	0.1		Distance L	1.0
Distance C	0.2		Standard number size M	0.3
Distance D	0.4		Distance N	0.5
Distance E	0.6		Distance O	0.2
Distance F	0.2		Distance P	0.2
Distance G	0.2		Distance Q	0.9
Distance H	0.6		Distance R	1.2
Dot size I	0.05	0.04	Distance S	1.8

ZEISS LRP S5 318-50
and **525-56 ZF-MRi** reticle
comparison



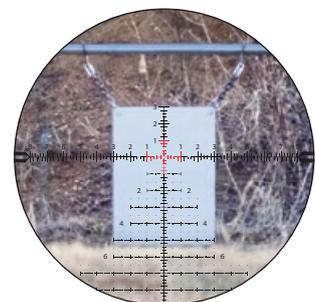
@3,6x



@18x



@5x



@25x

ZEISS FFP RETICLES

MINUTE-OF-ANGLE: ZF-MOAI.

ZEISS LRP S5 318-50
and **525-56 ZF-MOAI** reticle
comparison

The ZF-MOAI reticle was designed with precision shooting and long-range hunting in mind. This is a great reticle for the most challenging shots in the field and on the range. The clean and clutter-free reticle utilizes hash marks that represent 1 MOA (minute of angle); even numbers are displayed for fast, intuitive visual reference. The windage dots below centerline are placed at 2 MOA increments so that you can easily confirm the wind's influence on the bullet's impact down-range. The floating center point of aim provides a precise hold on the most difficult targets.



@3,6x



@18x



@5x



@25x

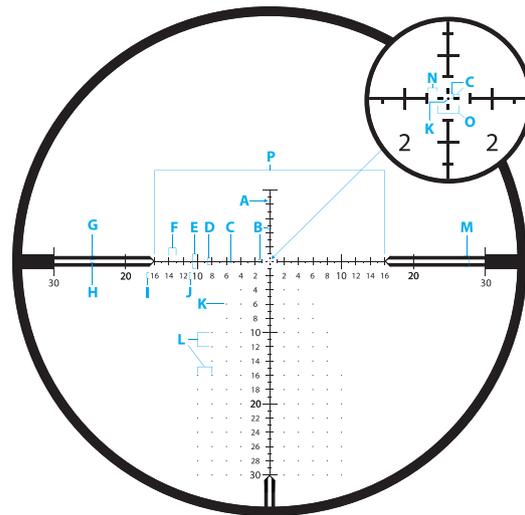


Image above is for illustration purposes.

LRP S5	318-50	525-56		
Unit of measure	MoA		Standard number size I	0.75
Line thickness A	0.125	0.1	10, 20, 30 number size J	1.0
Distance B	0.5		Dot size K	0.125
Distance C	0.25		Dot spacing L	2.0
Distance D	1.0		Distance M	1.5
Distance E	2.0		Spacing around center crosshairs N	0.5
Distance F	1.0		Distance O	1.0
Distance G	0.5		Distance P	32
Distance H	0.5		Distance Q	2.0
			Distance R	3.0
			Distance S	4.0



READY FOR COMPETITION. WITH BEST-IN-CLASS ELEVATION TRAVEL. **ZEISS LRP S3**

In long-range rimfire competitions, the little 22 LR cartridge is frequently pushed beyond its intended limits. The capabilities and performance of the riflescope are hereby tested at the extreme – many lack the sufficient elevation travel.

The ZEISS LRP S3 425-50 offers an impressive 160 MOA or 46.5 MRAD of elevation travel. The new first focal plane riflescope from ZEISS withstands 1,500 *g*-force of shock over multiple impact cycles and is therefore ready for the toughest of competitions: Maximum precision for great achievements.

Best-in-class total elevation travel



A massive total elevation travel of up to 46.5 MRAD or 160 MOA allows the ZEISS LRP S3 to be more capable than your ammunition.

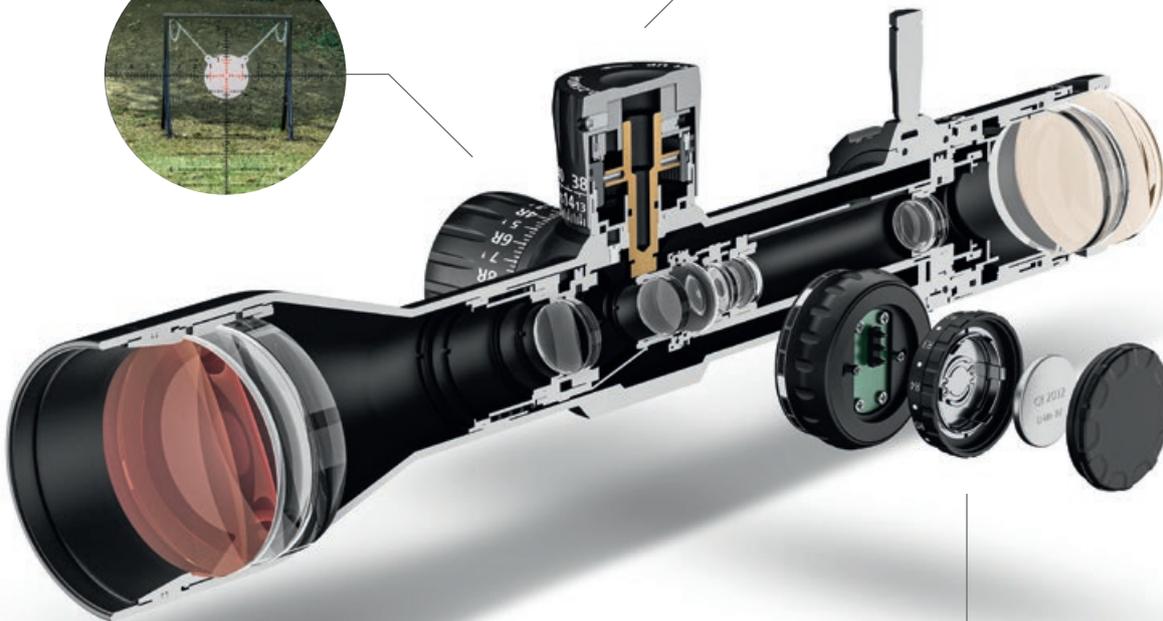
Best-in-class total elevation travel

Impressive amount for bullet impact on the most distant targets:

- 160 MOA or 46.5 MRAD for the 425-50 model
- 110 MOA or 32 MRAD for the 636-56 model

Daylight visible illuminated reticle

With user-selected option of red or green illumination, controlled via five intensity levels. For a most precise point-of-aim, only the center section of the reticle illuminates.



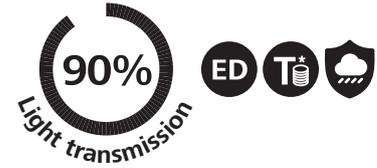
Advanced optics

With Extra Low Dispersion (ED) glass elements, ZEISS T* multi-coated lenses, and 90% light transmission, the ZEISS LRP S3 models deliver advanced optical performance.

Ballistic stop and external locking windage turret

ZEISS LRP S3 riflescopes utilize ZEISS' proven ballistic stop to provide an absolute and true return to zero. The external locking windage turret provides immediate access for wind corrections, including a locking feature.

MAXIMUM PRECISION FOR GREAT ACHIEVEMENTS. ZEISS LRP S3.



Best features for every competition.

- Best-in-class total elevation travel.
- Daylight visible illuminated reticle in red and green with five intensity levels and auto-off feature.
- Compact and heavy-duty: 34 mm main tube mono-bloc housing, machined from solid aluminum billet T6 and up to 3 mm main tube wall thickness – withstands 1,500 g-force of shock over multiple impact cycles.
- Diopter adjustment from +3/-3.
- Side parallax adjustment: 15 or 10 meters to infinity; larger diameter for ideal control.
- Advanced optical design.



LRP S3 425-50

A large field-of-view makes it the perfect targeting optic for medium and long-range targets. Its compact and lightweight 34mm main tube is tested to withstand 1,500 g-force of shock over multiple impact cycles.



LRP S3 636-56

The best solution for medium to extreme long-range shooting. The 6x–36x magnification range is combined with a 32 MRAD elevation turret which supports more precise shot placements.



Turrets



MRAD



MOA



MRAD



MOA

Best-in-class total elevation travel

- 425-50: 160 MOA or 46.5 MRAD
- 636-56: 110 MOA or 32 MRAD

External locking windage turrets

- Multi-turn, lifting design with enhanced engraving
- 0.1 MRAD or 0.25 MOA click value option
- One revolution equals 10 MRAD or 25 MOA
- Elevation turret – with dual row engraving
- Windage turret – with locking feature

ZEISS FFP RETICLES

MILLIRADIAN: ZF-MRI.

The ZF-MRi reticle was designed specifically for competitions. The milliradian (MRAD) reticle incorporates a “tree-style” primary structure with useful hash marks, dots, and reference numbers – without the clutter. The points of aim and holds are represented in 0.02, 0.05, and 1.0 MRAD increments; and even numbers are displayed for fast and intuitive visual reference.

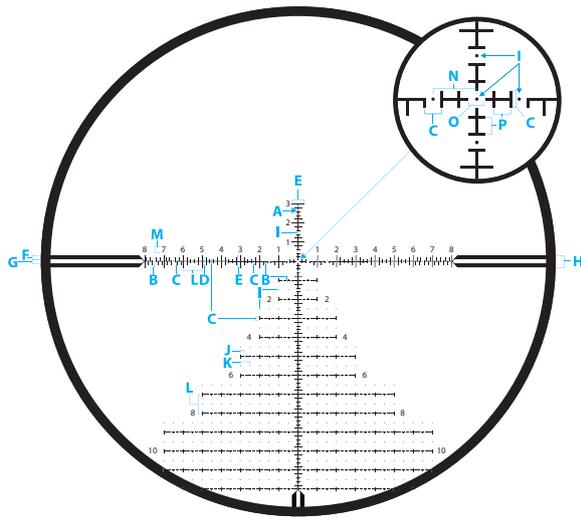


Image above is for illustration purposes

LRP S3	425-50	636-56		
Unit of measure	MRAD		Distance H	0.6
Line thickness A	0.03		Dot Size I	0.04
Distance B	0.1		Distance J	0.2
Distance C	0.2		Distance K	0.5
Distance D	0.4		Distance L	1.0
Distance E	0.6		Standard number size M	0.3
Distance F	0.2		Distance N	0.5
Distance G	0.2		Distance O	0.2
			Distance P	0.2

ZEISS LRP S3 425-50
and **636-56 ZF-MRi** reticle
comparison



@3,6x



@18x



@5x



@25x

ZEISS FFP RETICLES

MINUTE-OF-ANGLE: ZF-MOAI.

ZEISS LRP S3 425-50
and **636-56 ZF-MOAI** reticle comparison

The ZF-MOAI reticle was designed with precision shooting and long-range hunting in mind. This is a great reticle for the most challenging shots in the field and on the range. The clean and clutter-free reticle utilizes hash marks that represent 1 MOA (minute of angle); even numbers are displayed for fast, intuitive visual reference. The windage dots below centerline are placed at 2 MOA increments so that you can easily confirm the wind's influence on the bullet's impact down-range. The floating center point of aim provides a precise hold on the most difficult targets.



@3,6x



@18x



@5x



@25x

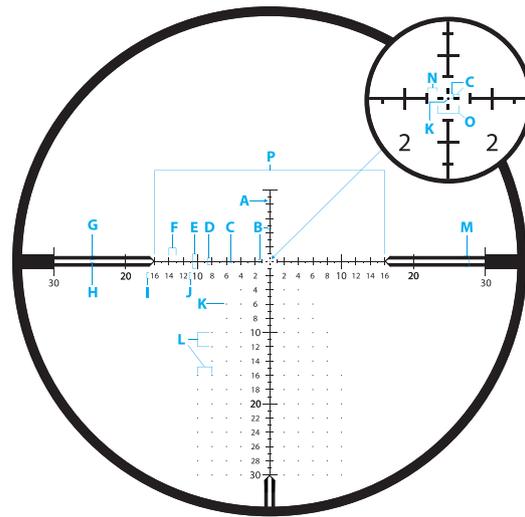


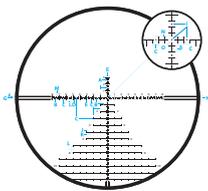
Image above is for illustration purposes

ZEISS LRP S3	425-50	636-56		
Unit of measure	MOA		Distance H	0.5
Line thickness A	0.1		Standard number size I	0.75
Distance B	0.5		10, 20, 30 number size J	1.0
Distance C	0.25		Dot size K	0.125
Distance D	1.0		Dot spacing L	2.0
Distance E	2.0		Distance M	1.5
Distance F	1.0		Spacing around center cross N	0.5
Distance G	0.5		Distance O	1.0
			Distance P	32

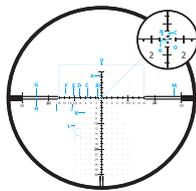
TECHNICAL SPECIFICATIONS.

First focal plane riflescopes	LRP S5	
	318-50	525-56
Model	318-50	525-56
Light transmission	90 %	
Magnification	3.6×–18×	5×–25×
Reticle focal plane	First Focal Plane (FFP)	
Effective lens diameter	50 mm	56 mm
Exit pupil diameter	9.3–2.8 mm	9.2–2.4 mm
Twilight factor	13.4–30	16.7–37.4
Field of view (100 m)	10.0–2.0 m / 100 m	7.5–1.5 m / 100 m
Objective viewing angle	5.7°–1.1°	4.3°–0.8°
Dioptr adjustment range	+2 / –3 dpt	
Eye relief	90 mm	
Parallax setting	25 – ∞ m	
Vertical adjustment range at 100 m	40.7 MRAD // 140 MOA	
Windage adjustment range at 100 m	17.45 MRAD // 60 MOA	
Adjustment per click at 100 m	0.1 MRAD // 0.25 MOA	
Centre tube diameter	34 mm	
Eyepiece tube diameter	46 mm	
Lens tube diameter	56 mm	62 mm
Lens thread	M54×0.75 mm	M60×0.75 mm
Coating	LotuTec® and ZEISS T* Coating	
Nitrogen filling	Yes	
Watertightness	400 mbar	
Operating temperature	–25 °C / +55 °C // –13 / +131° F	
Length	331 mm	396 mm
Weight	930 g	1.030 g
Reticles	ZF-MRi (Milliradian) / ZF-MOAi (Minute of Angle)	
Order no. MRAD	52 22 75-9916-090	52 22 95-9916-090
Order no. MOA	52 22 65-9917-090	52 22 85-9917-090

Subject to changes in design and scope of delivery as a result of ongoing technical development.



ZF-MRi
with illuminated dot
in the center



ZF-MOAi
with illuminated dot
in the center

TECHNICAL SPECIFICATIONS.

First focal plane riflescopes	LRP S3	
	425-50	636-56
Model	425-50	636-56
Light transmission	90 %	
Magnification	4×–25×	6×–36×
Reticle focal plane	First Focal Plane (FFP)	
Effective lens diameter	50 mm	56 mm
Exit pupil diameter	7.1–2.0 mm	8.8–1.6 mm
Twilight factor	11.7–35.4	17.7–44.9
Field of view (100 m)	9.5–1.6 m / 100 m	6.8–1.1 m / 100 m
Objective viewing angle	5.4°–0.9°	3.9°–0.6°
Dioptre adjustment range	+3 / –3 dpt	
Eye relief	8–9 cm	
Parallax setting	15–∞ m	10–∞ m
Vertical adjustment range at 100 m	46.54 MRAD // 160 MOA	32.00 MRAD // 110 MOA
Windage adjustment range at 100 m	17.45 MRAD // 60 MOA	14.55 MRAD // 50 MOA
Adjustment per click at 100 m	0.1 MRAD // 0.25 MOA	
Centre tube diameter	34 mm	
Eyepiece tube diameter	45 mm	
Lens tube diameter	60 mm	65 mm
Lens thread	M54×0.75 mm	M62×0.75 mm
Coating	LotuTec® and ZEISS T* Coating	
Nitrogen filling	Yes	
Watertightness	400 mbar (submerged 4 m / 13 ft for 2 hours)	
Operating temperature	–25 / +50° C // –13 / +122° F	
Length	340 mm	384 mm
Weight	1.040 g	1.107 g
Reticles	ZF-MRi (Milliradian) / ZF-MOAi (Minute of Angle)	
Order no. MRAD	52 26 75-9916-090	52 26 95-9916-090
Order no. MOA	52 26 65-9917-090	52 26 85-9917-090

Subject to changes in design and scope of delivery as a result of ongoing technical development.

ZEISS LRP IN COMPARISON.

Main use



Light transmission



Optical quality



Ballistic turrets

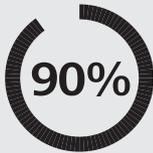


Precision shooting



Competition / target shooting

ZEISS LRP S5



Ballistic stop and external locking windage turret (ELWT)



All-metal design
Multiple revolutions
Optimized engraving
Absolute return to zero

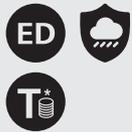


0.1 MRAD or 0.25 MOA click value option

LRP S5 318-50 

LRP S5 525-56 

ZEISS LRP S3



Ballistic stop and external locking windage turret (ELWT)



Multi-turn, lifting design with enhanced engraving



0.1 MRAD or 0.25 MOA click value option



One revolution equals 10 MRAD or 25 MOA

LRP S3 425-50 

LRP S3 636-56 



LotuTec®
For fast and easy lens cleaning.



T*
Multicoating for brilliant, high-contrast images.



Extra Low-Dispersion Glass
For detailed and bright views.



Fluoride Glass
SCHOTT fluoride glass for bright images.



Long-range shooting



Long-range hunting



Illuminated reticle



Reticle



Mounting accessories



Digital technology



Brightness continuously adjustable

Tilt sensor – illuminated dot switched off when setting or laying down the weapon

Automatic shutoff after 4 hours

First focal plane



Smart reticles



ZF-MOAI
ZF-MRi

34 mm rings



Digitally controlled, five intensity levels

Center-of-reticle illumination

Red/green illumination

Auto-off feature

First focal plane

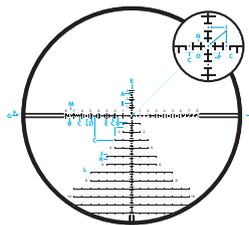


Smart reticles

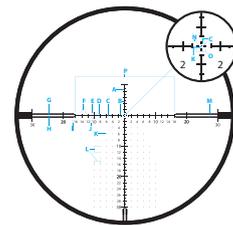


ZF-MOAI
ZF-MRi

34 mm rings



ZF-MRi
with illuminated dot in the center



ZF-MOAI
with illuminated dot in the center

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Customer Care

Carl Zeiss Sports Optics GmbH – Customer Care
Gloelstraße 3 – 5, 35576 Wetzlar, Germany
Phone +49-800-934-7733 | Fax +49-644-148-369
consumerproducts@zeiss.com

Carl Zeiss AG

Consumer Products Business Group
Carl-Zeiss-Straße 22
73447 Oberkochen
Germany

www.zeiss.com/precision-shooting

