

Precision Optics for Snipers



We make it visible.

Make the first shot count - you may not get a second chance.

Whether for safeguarding potential targets or engaging specific threats – Carl Zeiss Optronics provides a wide range of targeting and observation optics for military and law enforcement snipers throughout the world.

In particular, optics are essential for detection, observation and precise targeting. Whether in public or private transportation vehicles, ships or facilities, cities or fields, at night or under poor weather conditions – optics provide the foundation for a reliable first shot. Reliable precision protects your investment.

The current product line comprises rifle-scopes and sights for all distances and tactical situations. Carl Zeiss Optronics delivers illuminated standard or customized reticles in the first or second image plane – tailored to customer needs.



Safeguarding facilities,
protecting troops



Personal safety



Missions to protect strategic targets both at home and abroad require excellent training, attention to detail and first-class equipment. Short distances require light targeting optics with minimal magnification for extremely fast target acquisition and action. Products from Carl Zeiss Optronics enable you to lock onto targets more quickly and precisely. – Typical uses for the small arms RSA-S reflex sight.

Your own safety is essential to the success of the mission! The wide range of conditions governing the use of an assault rifle requires an optimized balance between performance and weight. Short distances to a target demand lightweight targeting optics with simple magnification for extremely fast and reliable target acquisition. Intermediate distances place more demands on the precision of the system. – Typical uses for the RSA-S with magnification adapter.



Ensuring domestic security



Hours of fatigue-free observation followed by minutes of concentrated aiming with your finger on the trigger while waiting for the order to deliver a precise shot – short to intermediate distances demand low to intermediate magnification, a large field of view and a precisely adjustable illuminated reticle that always provides the correct contrast without over illuminating. Carl Zeiss Optronics delivers targeting optics with fine adjustment for the area of application. – Typical uses for the 3-12x56, 3-12x56FF, 3-12x56 SSG-P, 4-16x56, 4-16x56FF, 6-24x56 and 6-24x72 riflescopes.

Night vision



The NSV 80 is the maximum performance night vision device from Carl Zeiss Optronics. It can be combined with all Carl Zeiss Optronics riflescopes and permits effective and precise execution of tasks at night.



Precise target acquisition

Situation, mission, execution: observing the battle field and eliminating strategically important targets usually occurs at a distance of more than 1,000 meters. Powerful optics with high magnification, a precisely adjustable illuminated reticle and reliable operation under all environmental conditions are ideal for such tasks. Typical uses for the 6-24x56, 6-24x72, 4-16x56 and 4-16x56 FF riflescopes.



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Personal safety

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*Riflescope
3-12 x 56;
3-12 x 56 FF*



*Riflescope
3-12 x 56 SSG-P*



*Riflescope
4-16 x 56;
4-16 x 56 FF*



*Riflescope
6-24 x 56*



*Riflescope
6-24 x 72*



Technical Data

Riflescope	3-12 x 56	3-12 x 56 FF	3-12 x 56 SSG-P	4-16 x 56	4-16 x 56 FF	6-24 x 56	6-24 x 72
Reticle image plane	2nd	1st	1st	2nd	1st	2nd	2nd
Exit pupil in mm	14.9 to 4.6	14.9 to 4.6	12.7 to 4.6	14.0 to 3.5	14.0 to 3.5	9.3 to 2.3	12.0 to 3.0
Field of view (at 1000 m) in m	120 to 34	117 to 34	92 to 32	90 to 25	87 to 25	61 to 17	61 to 17
Max adjustment path in cm/100 m: height/lateral	± 200/± 50	± 150/± 50	112/± 22	± 150/± 50	± 112/± 50	± 80/± 35	± 100/± 30
Length/center tube diameter in mm	325/34	325/34	392/ -	334/34	334/34	385/30	380/34
Weight in g	800	800	1100	900	900	850	1100

All riflescopes have been tested in accordance with MIL-STD-810.

NSV 80 night vision Attachment

Objective lens focal length	124.5 mm
Exit pupil	24 mm
Field of view	8°; 140 m/1000 m
Length	268 mm
Weight	1270 g incl. batteries
Power supply (Mignon)	2 x 1.5V Alkali Mangan or 2 x 1.2V NiCd-Akku batteries
Service life (Mignon)	≥ 90 h with Alkali Mangan batteries
BiV-tubes (design)	XX1865
Generation	HyperGen, performance enhanced with automatic brightness adjustment

Magnification adapter 3x

Magnification	3 x
Field of view	± 4°; ± 7.0 m/100m
Exit pupil	5.8 mm
Length	97.0 mm
Weight	230 g

Small arms RSA-S reflex sight

Magnification	1 x
Field of view	± 5.3°; ± 9.4 m/100m
Target subtension of the target point	Diameter 1 mrad, 10 cm/100 m
Battery	CR 2032 button cell
Solar cell	Silicon cell
Adjustment range height/lateral (respective)	± 14 mrad, ± 140 cm/100 m
Length	63.5 mm
Weight	100 g

Images at the top of page 3 and the lower left on page 5: with the friendly support of THALES Defence Deutschland GmbH



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