

## Reliable Targeting in Close-quarters Combat



RSA-S Reflex Sight  
VGN 3x Magnification Attachment



We make it visible.

# Electronically supported fast and reliable targeting

Immediately reacting to a threat ensures execution of a military mission while providing maximum self protection. This is particularly true for close-quarters and house-to-house combat. The RSA-S Reflex Sight (Reflex-sight Small Arms) and the VGN 3x Magnification Attachment have been specifically developed for the weapons used in such scenarios – assault rifles, machine guns and hand-held weapons. Combined with the VGN 3x, the RSA-S also becomes a high-performance observation and targeting instrument for moderate ranges.

The precision optics and state-of-the-art electronics on the RSA-S enable fast target acquisition and reliable targeting. Automatic adjustment of the red dot to ambient light conditions is particularly advantageous. The red dot can also be manually adjusted.

A new optical design led to a very short, compact construction of a collimator sight for the first time – without the negative characteristics of a tilted optical system, thus making the RSA-S ideal for use in close-quarters combat.



### **Assistance without obstruction**



The RSA-S reflex sight is recoil proof, watertight and resistant to jolts and vibrations. Its functional design withstands even the toughest conditions. The short, compact design also results in a lower weight, does not limit the field of view and ensures that the instrument is parallax free. The RSA-S is designed for use with both eyes, allowing snipers to survey their surroundings when they are sighting a target. The target dot brightness automatically adjusts depending on the ambient brightness, but can also be manually set to the brightness in the target area.

### **Innovative power Supply**

The RSA-S utilizes a hybrid power supply system consisting of a solar cell, a battery and electronics. If it is not bright enough to power the sight with solar energy, the electronics automatically switch to the battery for the needed voltage. The illumination element requires very little power. The RSA-S automatically shuts down if it not used for a long period of time. The specially developed electronics, the intelligent software and the solar cells ensure that the RSA-S can be used for years without requiring a battery change.

### **Expand the range of operations with the VGN 3x**

The wide range of conditions governing the use of an assault rifle requires an optimized balance between performance and weight. The 3x magnifying adapter VGN 3x is used with the RSA-S for targeting at longer distances. Equipped with night vision goggles, the RSA-S with magnification attachment is also suitable for nighttime missions.

### **Quick assembly and disassembly even on a mission**

The magnification attachment and reflex sight have a special clamping device for a Picatinny rail, allowing attachment or removal from the weapon in a short time without tools. A slide secures the clamping device, ensuring that the RSA-S and the magnification attachment remain solidly connected even under the toughest conditions. A rubber protection device is available as an optional accessory.



# Technical data

## RSA-S Reflex sight Small Arms

### Mechanical data

Adjustment range (squared)	
Elevation/azimuth	$\pm 14$ mrad; $\pm 1.4$ m/100 m
Interface to weapon	Fast clamping on Picatinny rail

### Optical data

Magnification	1 x
Resolution in the middle of the image	min. 60"
Field of view	$\pm 5.3^\circ$ ; $\pm 9.4$ m/100 m
Transmission	78 % (at 400 nm to 1000 nm)
Free diameter	19.5 mm

### Target point

Target subtension of the target point	1 mrad, 10 cm/100 m
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### Electrical data

Battery	CR 2032 button cell
Solar cell	Silicon cell

### Dimensions and weight

Length/width/height	63.5/36/44.5 mm
Height above the rail	39 mm
Weight	100 g

### Environmental sturdiness

Environmental test	DIN ISO 9022 (excerpt)
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## VGN 3x Magnification Attachment

### Mechanical data

Material	Aluminum
Interface	Fast clamping on Picatinny rail

### Optical data

System	Magnification adapter
Magnification	3 x
Field of view	$8^\circ = 14.0$ m/100 m
Entrance pupil	17.5 mm
Exit pupil	5.8 mm

### Dimensions and weight

Length/width/height	97/40/45 mm
Weight	230 g

### Environmental sturdiness

Environmental test	DIN ISO 9022 (excerpt)
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## Carl Zeiss Optronics GmbH

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