

Night Sight Attachment



NSV 80 Night Sight Attachment



We make it visible.

Essential to success: night vision

A mission cannot wait for good weather. The planned operation starts when the order is given – regardless of the weather or time of day. Quickly and precisely carrying out orders is essential to saving lives. “Clear sight” is vital, primarily for snipers as well as military and police special forces.

Carl Zeiss Optronics has developed the NSV 80 Night Sight Attachment for missions during poor light conditions or nighttime operations. It is based on the residual light amplification principle and is ideal as an attachment for almost all telescopic sights on the market.

As a result of its compact design, the NSV 80 from Carl Zeiss Optronics is a light-weight, reliable instrument with high image quality for military and non-military applications. Several manufacturers offer integrated solutions to permit the use of the NSV 80 Night Sight Attachment with the respective weapon.



Recognize details even in a faint light

The NSV 80 Night Sight Attachment is compatible with almost all standard telescopic sights. The image intensifier tube enhances any residual light gathered and displays it on the screen. The angular resolution in the center of the image is an outstanding 0.25 mrad.

The eye guard for the eyepiece is available in two sizes. The eye guard is folded over the outside diameter of the riflescope, thus preventing light from entering between the attachment and the telescopic sight. Eye guards are available for lens diameters of 56 mm and 72 mm.

Easy to use, quickly ready for use

The NSV 80 Night Sight Attachment provides the user with a series of decisive advantages:

- The NSV 80 requires no start or warm-up period.
- All operating elements are close together and can also be easily and accurately operated when the user is wearing gloves.
- The fast clamping device enables mounting to any Picatinny rail. The riflescope can be quickly and repeatedly removed from and reattached to the weapon by opening the clamp – without tools – making the NSV 80 ideal for use under changing ambient brightness.
- The night sight attachment does not have to be aligned to the telescopic sight as it uses the image intensifier tube to display and brighten the image at a ratio of 1:1.

Battery change made easy

The easy-to-reach, watertight battery compartment on the NSV 80 is located on the side. A large safety latch prevents the user from unintentionally opening the compartment. However, changing the battery during a mission is not likely to happen. The expected life of the two alkaline-manganese batteries is approximately 90 hours under continuous operation.



Technical data

NSV 80 Night Sight Attachment

Optical data

Objective lens focal length	124.5 mm
Magnification	1x
Entrance pupil	85 mm
Exit pupil	24 mm
Field of view	8°; 140 m/1000 m
Angular resolution in the center	0.25 mrad
Range setting	20 m to ∞
Identification range (7 Lp/2.3 m) (NATO test target, Illumination 3 mlx)	≥ 600 m at V ≥ 6x

Dimensions and weight

Length/width/height each in mm	268/98/115 mm
Interface	Weaver rail (MIL-STD 1913)
Weight	1270 g including batteries

Electrical data

Power supply voltage	2.4 to 3 V
Power supply (AA)	2 x 1.5 V alkaline-manganese or 2 x 1.2 V NiCd batteries
Service life (AA)	> 90 hours with alkaline- manganese batteries
BiV tube (design)	XX1865
Generation	HyperGen. Performance enhanced with automatic brightness control

Environmental sturdiness

Operating temperature	-40 °C to +50 °C
Environmental test	MIL-STD-810C (excerpt)

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