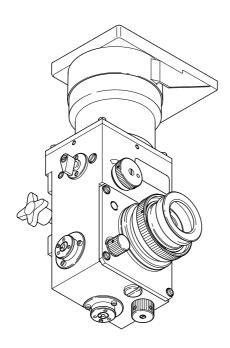
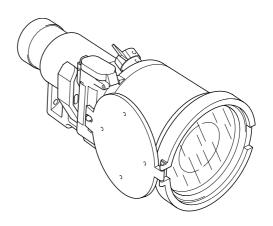
# **NIGHT VISION MODULES**





...you
might be
interested
in.



# With compliments

Subject to design and construction modifications

Carl Zeiss Optronics Wetzlar GmbH

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# Image Intensifier Module for PERI-Z16 A1

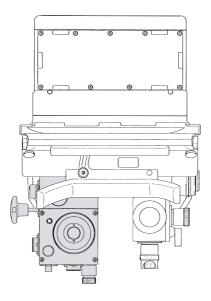
#### **Brief Description**

The new I<sup>2</sup> Module NAE 200 (**N**ight **A**iming **E**lbow) for the sighting periscope PERI-Z16 A1 is a passive night-sight telescope of the newest generation. It represents a reasonably priced alternative within the application spectrum of light armoured vehicles for the infantry.

A high performance optic and the image intensifier tube of the 2nd generation (2+ tube with twister, no blooming, comparable with the performance of the 3rd generation tubes) ensure an optimal image quality and range, as well as an extensive undisturbed environment in the local lightening of the scene.

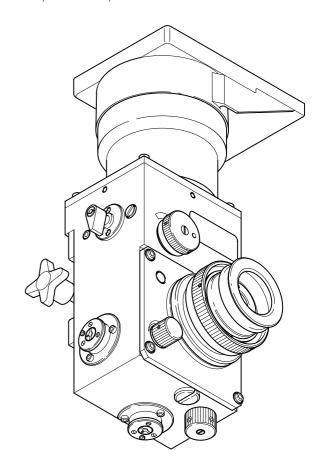
The NAE 200 can be fitted to the modular construction of the PERI-Z16 A1 simply and without further adaptation. The standard interface and the steadiness of the device ensure the high adjustability of the line of sight in rough situations.

The hair lines of the reticle is imaged to the screen via a spectral beam splitter and is superimposed on the scene. With the red reticle image, a full contrast and low loss superposition of the scene and the hair lines is ensured.



PERI-Z16 A1

The adjustment is made with an adjustment key. When making adjustments in daylight, a filter is swung into the beam path for the protection of the tube .



The horizontal shield is mechanically depressed and provides the observer with the shielding of the bright but not interesting sky, in order to be able to observe that part of the scene of interest with optimal performance.

When the shield is completely closed, the device is turned off and the shield protects the tube from incident light. A permanent irradiation of the tube in the daytime (also when turned off) does not affect the quality of the tube, and short duration irradiation (accidental) is not detrimental to it.

The NAE 200 is provided with a small electronics section for supplying the voltage for the tube from the vehicle power supply, and there is a brightness control for the hair lines. A power supply independent of the vehicle power supply, via battery or a rechargeable battery, can be offered on customer request.



| (Diameter of correction range for high image quality)  Focusing range  Adjustment range of reticle (EL and AZ)  Diopter adjustment  ± 4 dpt.  1º Image intensifier tube  2nd generation (2+) with twister 18 mm cathode diameter   Electrical data  Power supply voltage  Power consumption  Powice is reverse pole protected, also by long term reverse poling.  Dimensions  Height Width Length  NAE 200  345 mm  200 mm  165 mm   Weight  NAE 200  6.1 kg  Temperature ranges  Operation  -35 °C to +45 °C  Storage up to 6 months  -40 °C to +50 °C  Long term storage  Environmental conditions  Environmental test  MIL 810 C (in extracts)   | Optical data                          |                 |                      |                     |
|---|---------------------------------------|-----------------|----------------------|---------------------|
| Focal length Field of view 5° / 90 mrad Diameter of the entrance pupil 90 mm  Relative aperture 1:2.2 Aperture of eyepiece 7 mm (Diameter of correction range for high image quality) Focusing range 50 m to ∞ Adjustment range of reticle (EL and AZ) Diopter adjustment 1² lmage intensifier tube  Electrical data Power supply voltage 18 V - 32 V DC Power consumption Solving term reverse poling.  Elight Width Length NAE 200 345 mm 200 mm 165 mm  Weight NAE 200 6.1 kg  Temperature ranges Operation -35 °C to +45 °C Storage up to 6 months -40 °C to +50 °C Long term storage Environmental test MIL 810 C (in extracts)  | Magnification                         | 8 times         |                      |                     |
| Diameter of the entrance pupil 90 mm Relative aperture 1:2.2 Aperture of eyepiece 77 mm  (Diameter of correction range for high image quality) Focussing range 50 m to ∞ Adjustment range of reticle (EL and AZ) ± 8 mrad Diopter adjustment ± 4 dpt.   2 Image intensifier tube 2nd generation (2+) with twister 18 mm cathode diameter  | Focal length                          | 200 mm          |                      |                     |
| Relative aperture 1:2.2  Aperture of eyepiece 7 mm  (Diameter of correction range for high image quality)  Focusing range 50 m to ∞  Adjustment range of reticle (EL and AZ) ± 8 mrad  Diopter adjustment ± 4 dpt.   ² Image intensifier tube 2nd generation (2+) with twister 18 mm cathode diameter   Electrical data  Power supply voltage 18 ∨ - 32 ∨ DC  Power consumption <60 mA  Device is reverse pole protected, also by long term reverse poling.  Dimensions  Height Width Length  NAE 200 345 mm 200 mm 165 mm   Weight  NAE 200 6.1 kg   Temperature ranges  Operation -35 °C to +45 °C  Storage up to 6 months -40 °C to +50 °C  Long term storage -35 °C to +35 °C  Environmental conditions  Environmental test MIL 810 C (in extracts) | Field of view                         | 5° / 90 mrad    |                      |                     |
| Aperture of eyepiece (Diameter of correction range for high image quality)  Focussing range 50 m to ∞  Adjustment range of reticle (EL and AZ) ± 8 mrad  Diopter adjustment ± 4 dpt.  I' Image intensifier tube 2nd generation (2+) with twister 18 mm cathode diameter   Electrical data  Power supply voltage 18 V - 32 V DC  Power consumption < 60 mA  Device is reverse pole protected, also by long term reverse poling.  Dimensions  Height Width Length  NAE 200 345 mm 200 mm 165 mm  Weight  NAE 200 6.1 kg  Temperature ranges  Operation -35 °C to +45 °C  Storage up to 6 months -40 °C to +50 °C  Long term storage -35 °C to +35 °C  Environmental conditions  Environmental test MIL 810 C (in extracts)                                | Diameter of the entrance pupil        | 90 mm           |                      |                     |
| (Diameter of correction range for high image quality)  Focusing range  Adjustment range of reticle (EL and AZ)  Diopter adjustment  ± 4 dpt.  1º Image intensifier tube  2nd generation (2+) with twister 18 mm cathode diameter   Electrical data  Power supply voltage  Power consumption  Powice is reverse pole protected, also by long term reverse poling.  Dimensions  Height Width Length  NAE 200  345 mm  200 mm  165 mm   Weight  NAE 200  6.1 kg  Temperature ranges  Operation  -35 °C to +45 °C  Storage up to 6 months  -40 °C to +50 °C  Long term storage  Environmental conditions  Environmental test  MIL 810 C (in extracts)   | Relative aperture                     | 1:2.2           |                      |                     |
| high image quality) Focusing range 50 m to ∞ Adjustment range of reticle (EL and AZ) ± 8 mrad Diopter adjustment ± 4 dpt.  ² Image intensifier tube 2nd generation (2+) with twister 18 mm cathode diameter   | Aperture of eyepiece                  | 7 mm            |                      |                     |
| Focussing range  Adjustment range of reticle (EL and AZ)  ± 8 mrad  Diopter adjustment  ± 4 dpt.  Flange intensifier tube  2nd generation (2+) with twister 18 mm cathode diameter  Electrical data  Power supply voltage  Power consumption  Device is reverse pole protected, also by long term reverse poling.  Dimensions  Height  NAE 200  345 mm  200 mm  165 mm  Weight  NAE 200  6.1 kg  Temperature ranges  Operation  -35 °C to +45 °C  Storage up to 6 months  -40 °C to +50 °C  Long term storage  Environmental conditions  Environmental test  MIL 810 C (in extracts)  | (Diameter of correction range for     |                 |                      |                     |
| Adjustment range of reticle (EL and AZ) ± 8 mrad Diopter adjustment ± 4 dpt.  1º Image intensifier tube 2nd generation (2+) with twister 18 mm cathode diameter  Electrical data  Power supply voltage 18 V - 32 V DC Power consumption < 60 mA  Device is reverse pole protected, also by long term reverse poling.  Dimensions  Height Width Length NAE 200 345 mm 200 mm 165 mm  Weight NAE 200 6.1 kg  Temperature ranges  Operation -35 °C to +45 °C Storage up to 6 months -40 °C to +50 °C Long term storage -35 °C to +35 °C  Environmental conditions  Environmental test MIL 810 C (in extracts)  | high image quality)                   |                 |                      |                     |
| Diopter adjustment ± 4 dpt.   2 Image intensifier tube 2nd generation (2+) with twister 18 mm cathode diameter    Electrical data   |                                       | 50 m to ∞       |                      |                     |
| Image intensifier tube  |                                       | ± 8 mrad        |                      |                     |
| Electrical data  Power supply voltage 18 V - 32 V DC  Power consumption < 60 mA  Device is reverse pole protected, also by long term reverse poling.  Dimensions  Height Width Length  NAE 200 345 mm 200 mm 165 mm  Weight  NAE 200 6.1 kg  Temperature ranges  Operation -35 °C to +45 °C  Storage up to 6 months -40 °C to +50 °C  Long term storage -35 °C to +35 °C  Environmental conditions  Environmental test MIL 810 C (in extracts)  |                                       |                 |                      |                     |
| Power supply voltage 18 V - 32 V DC Power consumption < 60 mA  Device is reverse pole protected, also by long term reverse poling.    Height   Width   Length     NAE 200   345 mm   200 mm   165 mm    Weight     NAE 200   6.1 kg    Temperature ranges     Operation   -35 °C to +45 °C     Storage up to 6 months   -40 °C to +50 °C     Long term storage   -35 °C to +35 °C     Environmental conditions     Environmental test   MIL 810 C (in extracts)   | I <sup>2</sup> Image intensifier tube | 2nd generation  | (2+) with twister 18 | mm cathode diameter |
| Power consumption < 60 mA  Device is reverse pole protected, also by long term reverse poling.  Pimensions  Height Width Length  NAE 200 345 mm 200 mm 165 mm  Weight  NAE 200 6.1 kg  Temperature ranges  Operation -35 °C to +45 °C  Storage up to 6 months -40 °C to +50 °C  Long term storage -35 °C to +35 °C  Environmental conditions  Environmental test MIL 810 C (in extracts)  | Electrical data                       |                 |                      |                     |
| Power consumption < 60 mA  Device is reverse pole protected, also by long term reverse poling.    Height   Width   Length     NAE 200   345 mm   200 mm   165 mm     Weight     NAE 200   6.1 kg  | Power supply voltage                  | 18 V - 32 V DC  |                      |                     |
| by long term reverse poling.    Height   Width   Length     NAE 200   345 mm   200 mm   165 mm  | Power consumption                     | < 60 mA         |                      |                     |
| by long term reverse poling.    Height   Width   Length     NAE 200   345 mm   200 mm   165 mm  | ·                                     |                 |                      |                     |
| Height Width Length  NAE 200 345 mm 200 mm 165 mm  Weight  NAE 200 6.1 kg  Temperature ranges  Operation -35 °C to +45 °C Storage up to 6 months -40 °C to +50 °C Long term storage -35 °C to +35 °C  Environmental conditions  Environmental test MIL 810 C (in extracts)  | by long term reverse poling.          |                 |                      |                     |
| NAE 200         345 mm         200 mm         165 mm           Weight         NAE 200         6.1 kg           Temperature ranges         Operation         -35 °C to +45 °C           Storage up to 6 months         -40 °C to +50 °C           Long term storage         -35 °C to +35 °C           Environmental conditions         MIL 810 C (in extracts)  | Dimensions                            |                 |                      |                     |
| NAE 200         345 mm         200 mm         165 mm           Weight         NAE 200         6.1 kg           Temperature ranges         Operation         -35 °C to +45 °C           Storage up to 6 months         -40 °C to +50 °C           Long term storage         -35 °C to +35 °C           Environmental conditions         MIL 810 C (in extracts)  |                                       | Height          | Width                | Length              |
| NAE 200  Comparison  Operation  Operation  -35 °C to +45 °C  Storage up to 6 months  -40 °C to +50 °C  Long term storage  -35 °C to +35 °C  Environmental conditions  Environmental test  MIL 810 C (in extracts)   | NAE 200                               |                 | 200 mm               | 5                   |
| Temperature ranges  Operation   | Weight                                |                 |                      |                     |
| Operation -35 °C to +45 °C Storage up to 6 months -40 °C to +50 °C Long term storage -35 °C to +35 °C  Environmental conditions Environmental test MIL 810 C (in extracts)  | NAE 200                               | 6.1 kg          |                      |                     |
| Operation -35 °C to +45 °C Storage up to 6 months -40 °C to +50 °C Long term storage -35 °C to +35 °C  Environmental conditions Environmental test MIL 810 C (in extracts)  | Temperature ranges                    |                 |                      |                     |
| Storage up to 6 months  -40 °C to +50 °C  Long term storage  -35 °C to +35 °C  Environmental conditions  Environmental test  MIL 810 C (in extracts)  | _                                     | -35 °C to +45   | °C                   |                     |
| Long term storage -35 °C to +35 °C  Environmental conditions  Environmental test MIL 810 C (in extracts)  |                                       |                 |                      |                     |
| Environmental test MIL 810 C (in extracts)  |                                       |                 |                      |                     |
|   | Environmental conditions              |                 |                      |                     |
|   | Environmental test                    | MIL 810 C (in e | extracts)            |                     |
|   | Adjustment stability                  |                 | /                    |                     |

# Scope of delivery

| Article | Part No.        |
|---------|-----------------|
| NAE 200 | 009-251.010-000 |

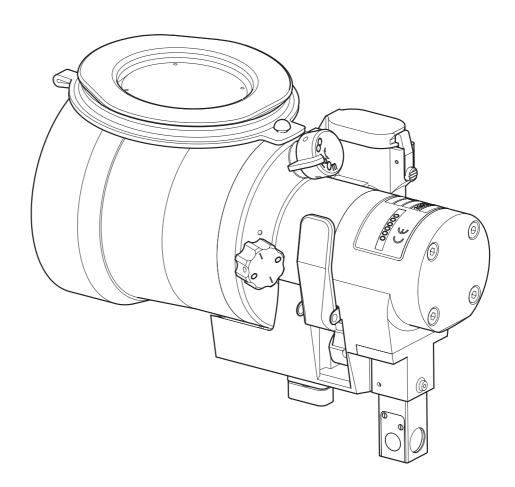
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### Night Sight Attachment NSA 80

### **Brief description**

NSA 80 is a night sight attachment featuring the most modern technology. It incorporates the principle of residual light intensification and is an attachment unit suitable for use on various sighting and observation units and the HALEM II Laser Rangefinder. The compact design makes the NSA 80 a light- weight, reliable unit providing high image quality for military and non-military applications. Among other applications it is used together with our Telescopic Sight 3 x 4° on the new automatic rifle G36 of the German Army. Adapters for PzF3 are available.





| 124.5 mm                        |
|---------------------------------|
| 1x                              |
| 85 mm                           |
| 10 mm                           |
| 8° (140 m / 1,000 m)            |
| ≤ 0.25 mrad                     |
| 20 m to ∞                       |
| ≥ 500 m at V ≥ 6x magnification |
| •                               |
|                                 |

| Dimensions |        |        |        |  |
|------------|--------|--------|--------|--|
|            | Length | Width  | Height |  |
| NSA 80     | 187 mm | 100 mm | 146 mm |  |

| Weight |                             |
|--------|-----------------------------|
| NSA 80 | 1.22 kg including batteries |
|        |                             |

| Electrical data |  |
|-----------------|--|
| Supply Voltage  | 2.4 V to 3 V   |
| Power supply    | 2 pieces, 1.5 Mignon Alkaline Manganese                  |
|                 | or 2 pieces, 1.2 V Mignon NiCd rechargeable battery      |
| Service life    | ≥ 90 h, with Mignon Alkaline Manganese battery           |
| Service life    | ≥ 30 h per charge, with Mignon NiCd rechargeable battery |

### Image intensifier tube

| Type       | XX1865  |
|------------|---|
| Generation | HyperGen, enhanced with automatic brightness control, Gen. 3 on request |

| Environmental condit  | ions                       |  |
|-----------------------|----------------------------|--|
| Operating temperature | -40 °C to +50 °C           |  |
| Environmental test    | MIL-STD-810C (in extracts) |  |

# Scope of delivery

| Article                   | NATO Stock No./           |  |
|---------------------------|---------------------------|--|
|                           | Part No.                  |  |
| NSA 80                    | 5855-12-365-4127          |  |
|                           | 330206-9013.000           |  |
| canvas pouch              | 8105-12-365-2809          |  |
|                           | 330206-9020.000           |  |
| Rechargeable battery (4x) | 150.435                   |  |
| Optics Cleaning Cloth     | 6640-12-137-2580          |  |
|                           | 001-202.027-000 (150.349) |  |
| Operating Instructions    |                           |  |

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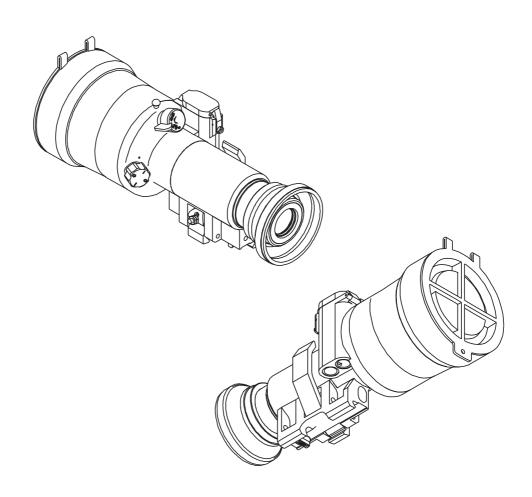


### Night Sight Attachment NSV 80

### **Brief description**

NSV 80 is a night sight attachment featuring the most modern technology. It incorporates the principle of residual light intensification and is an attachment unit suitable for use on various sighting and observation units. Its compact design makes the NSV 80 a light- weight, reliable unit providing high image quality for military and non-military applications.

Among other applications it is used together with our precision Telescopic Sight 3-12  $\times$  56 on the new sniper rifle G22 and G23 of the German Army.





| Optical data                            |                                 |
|---|---------------------------------|
| Focal length of objective lens          | 124.5 mm                        |
| Magnification                           | 1x                              |
| Entrance pupil                          | 85 mm                           |
| Exit pupil                              | 24 mm                           |
| Field of view                           | 8° (140 m / 1,000 m)            |
| Angular resolution in fov center        | ≤ 0.25 mrad                     |
| Focusing range                          | 20 m to ∞                       |
| Range for identification (7 Lp/2.3 m)   | ≥ 600 m at V ≥ 6x magnification |
| (NATO-target, luminous intensity 3 mLx) |                                 |

| Dimensions |                     |         |        |
|------------|---------------------|---------|--------|
|            | Length              | Width   | Height |
| NSV 80     | 268 mm              | 98 mm   | 115 mm |
| Interface  | Weaver rail (MIL-ST | D 1913) |        |

| Weight |                             |  |
|--------|-----------------------------|--|
| NSV 80 | 1.29 kg including batteries |  |

| Electrical data |  |
|-----------------|--|
| Supply Voltage  | 2.4 V to 3 V   |
| Power supply    | 2 pieces, 1.5 Mignon Alkaline Manganese                  |
|                 | or 2 pieces, 1.2 V Mignon NiCd rechargeable battery      |
| Service life    | ≥ 90 h, with Mignon Alkaline Manganese                   |
| Service life    | ≥ 30 h per charge, with Mignon NiCd rechargeable battery |

### Image intensifier tube

| Туре       | XX1865  |
|------------|---|
| Generation | HyperGen, enhanced with automatic brightness control, Gen. 3 on request |

| Environmental conditions |                            |
|--------------------------|----------------------------|
| Operating temperature    | -40 °C to +50 °C           |
| Environmental test       | MIL-STD-810C (in extracts) |

# Scope of delivery

| Article                   | NATO Stock No./           |  |  |
|---------------------------|---------------------------|--|--|
|                           | Part No.                  |  |  |
| NSV 80                    | 5855-12-365-6963          |  |  |
|                           | 330205-9904.000           |  |  |
| canvas pouch              | 8105-12-367-0092          |  |  |
|                           | 330205-9020.000           |  |  |
| Rechargeable battery (4x) | 150.435                   |  |  |
| Optics Cleaning Cloth     | 6640-12-137-2580          |  |  |
|                           | 001-202.027-000 (150.349) |  |  |
| Operating Instructions    |                           |  |  |

Subject to design and construction modifications

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# ORION 80 B II

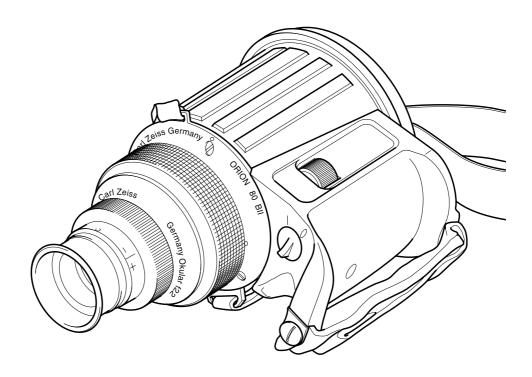
### Image Intensifier Sight

#### **Brief description**

The ORION 80 B II is an image intensifier unit of the second generation with an intensification of 20,000X. It is used for passive observation in twilight and at night when the sensitivity of the human eye is no longer sufficient to recognize details.

The design of the first-generation ORION (manufactured quantity approx. 10,000) has been utilized as a basis for the ORION 80 B II which now features a second-generation image intensifier tube which is more compact and less sensitive to high-intensity light. Automatic gain control of the image intensifier tube ensures adaptation to the different brightness levels present in twilight and at night.

An ORIOGON relay lens is available as an accessory for photographic documentation using a reflex camera.





| Optical data                  |                      |                         |              |  |
|-------------------------------|----------------------|-------------------------|--------------|--|
| Total magnification           | 5.5x                 |                         |              |  |
| Field of view                 | 8° (140 m / 1,000 r  | 8° (140 m / 1,000 m)    |              |  |
| Effective f-number            | 1.7                  |                         |              |  |
| Focusing                      | 10 m to ∞            |                         |              |  |
| Angular resolution in center  | ≤ 0.25 mra d         |                         |              |  |
| Dioptric compensation         |                      |                         |              |  |
| - 0-position                  | ± 0.5 dpt            |                         |              |  |
| - Adjustment range            | ± 5 dpt              |                         |              |  |
| Focal length (objective lens) | 125 mm               |                         |              |  |
| Exit pupil diameter           | ≤ 6 mm               |                         |              |  |
| Eye relief                    | ≤ 20 mm              |                         |              |  |
| Dimensions                    |                      |                         |              |  |
|                               | Length               | Width                   | Height       |  |
| ORION 80 B II                 | 212 mm               | 144 mm                  | 102 mm       |  |
| Electrical data               |                      |                         |              |  |
| Supply voltage                | 2.4 V to 3 V         |                         |              |  |
| Power supply                  | 2 rechargeable NiCo  | l batteries or 2 batter | ies, size AA |  |
| Tube                          | Image intensifier tu | be 2+ gen. XX 1610      |              |  |
|                               |                      |                         |              |  |
| Weight                        |                      |                         |              |  |
| ORION 80 B II                 | 1.5 kg               |                         |              |  |
|                               |                      |                         |              |  |
| Environmental conditions      |                      |                         |              |  |
| Environmental test            | MIL-STD-810C (in e   | xtracts)                |              |  |

# Scope of delivery

| Article                | Part No.             |  |
|------------------------|----------------------|--|
| ORION 80 B II          | 330213-9001.000      |  |
| Case                   | 539243-000.000       |  |
| Batteries (2x)         | 180.243              |  |
| Dust Brush             | 150.489              |  |
| Optics Cleaning Cloth  | 150.349              |  |
| Operating Instructions | Opln 330213-0000.000 |  |

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# ORION 80 II

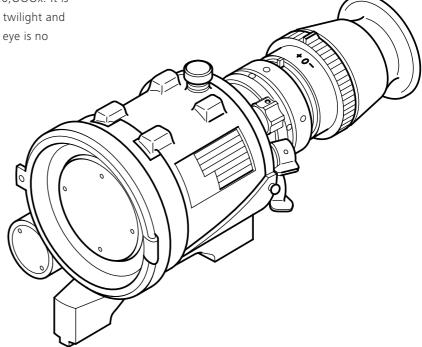
### Image Intensifier Sight

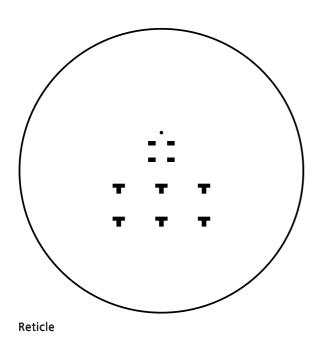
Standardized connection dimensions allow easy mounting of the ORION 80 II on different weapons.

#### **Brief description**

The ORION 80 II is an image intensifier sight of the second generation with an intensification of 20,000x. It is used for passive observation and aiming in twilight and at night when the sensitivity of the human eye is no longer sufficient to recognize details.

The design of the first-generation ORION, approximately 10,000 of which are used by the German Army, has been utilized as a basis for the ORION 80 II which now features a second generation image intensifier tube which is more compact and less sensitive to high-intensity light. Automatic gain control of the image intensifier tube ensures adaptation to the different brightness levels present in twilight and at night.







| Optical data                                   |                   |
|--|-------------------|
| Total magnification                            | 5.5x              |
| Field of view                                  | 8° (140m / 1000m) |
| Effective f-number                             | 1.7               |
| Focusing                                       | 20 m to ∞         |
| Resolution                                     | ≤ 0.25 mrad       |
| Dioptric adjustment                            | ± 4 D             |
| Entrance pupil dia.                            | 85 mm             |
| Exit pupil dia.                                | ≥ 6 mm            |
| Focal length                                   | 125 mm            |
| Range for identification (7 Lp/2.3 m)          | ≥ 500 m           |
| (NATO target, illumination 3 mLx)              |                   |
| Reticle adjustment range (windage / elevation) | ± 5 <sup>-</sup>  |
| Smallest increment of reticle adjustment       | 0.5               |

|  | ons |
|--|-----|
|  |     |
|  |     |
|  |     |
|  |     |

|             | Length  | Width    |
|-------------|---------|----------|
| ORION 80 II | 208 mm* | Ø 110 mm |

<sup>\*(</sup>without eyecup)

| Electrical data                  |   |
|----------------------------------|---|
| Supply voltage                   | 2.4 V to 3 V  |
| Power supply                     | 2 rechargeable NiCcl batteries or 2 batteries, size C       |
| Operating life at medium reticle |   |
| illumination and 20°C            | ≥ 30 h  |
| Tube                             | Image intensifier tube XX 1440 CJ-Dep or XX 1610 SP-Philips |
|                                  |   |

## Weight

ORION 80 II 1.75 kg

| Environmental condition |
|-------------------------|
|-------------------------|

Environmental test MIL-STD-810C (in extracts)

# Scope of delivery

| Article                     | Part No.        |  |
|-----------------------------|-----------------|--|
| ORION 80 II                 | 330202-9901.000 |  |
| Case                        | -/-             |  |
| Rechargeable NiCd batteries |                 |  |
| size C (2x)                 | 00000-0180.013  |  |
| Allan key, hexagon socket,  |                 |  |
| size 4 mm                   | 000000-0015.248 |  |
| Dust Brush                  | 000000-0026.834 |  |
| Optics Cleaning Cloth       | 000000-0150.349 |  |

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