

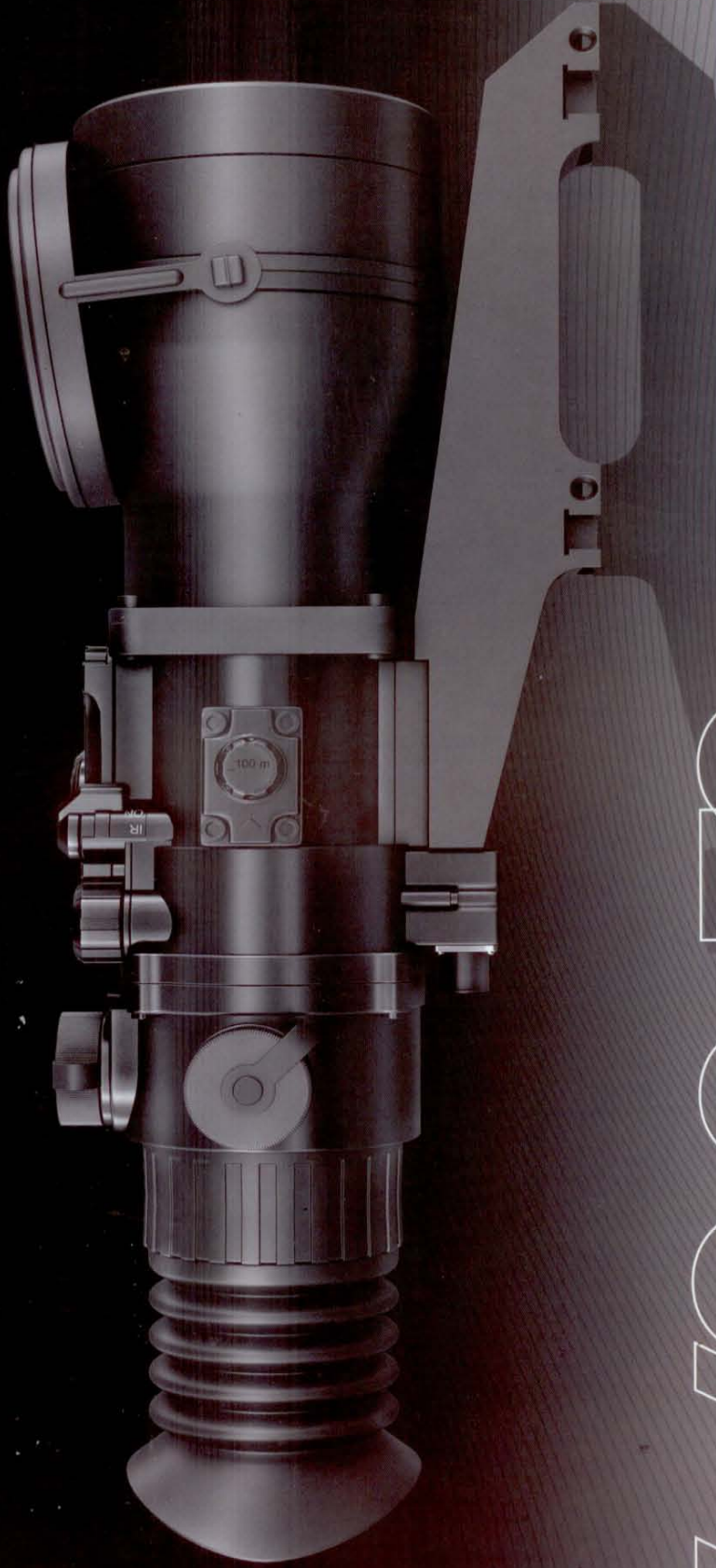


PULSAR

IMAGE.QUALITY

**2010
CATALOGUE**

PULSAR | IMAGE QUALITY



4x60 3x50 PHANTOM GEN 2+

MODELS | • Phantom 3x50 • Phantom 4x60 • Phantom 3x50 MD • Phantom 4x60 MD

NIGHT VISION RIFlescOPES

- Fine Image Quality and Resolution
- Multi-Reticle or Switchable Two-Colour MilDot Reticle options
- Shockproof even with Large Calibres (.375 H&H, .416 Rigby, .50 cal.)
- Nitrogen Purged Optical Path
- IPX6 Rating Against Water Intrusion
- Stabilized Power Supply Unit
- Functions with One AA (1.5V) or CR123A (3V) Battery
- Low Battery Indicator
- Fast Start-Up Function
- Accurate Internal Front Lens Focus Adjustment
- Ergonomic Design and Easy-to-Use Interface
- Remote Control with Secure Attachment
- Additional Weaver MIL-1913 Rail for Accessories
- Manufacturing Employs Carbon Plastic and Other Modern Technologies
- Flip-Up Objective Lens Cover
- Stylish Carrying Case



1 PROTECTIVE LENS CAP

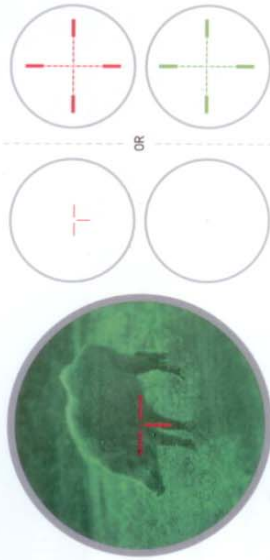
A soft rubber cap with a pinhole (for testing in daylight) is permanently attached to the bodyshell and protects the lens from water, scratches and chips when the scope is not in use. When using the scope, simply slide the lens cap back along the side of the bodyshell.

2 INTERNAL FOCUS OPTICAL SYSTEM

The focusing mechanism operates via a positive click-stopped focus wheel on the right side of the bodyshell that allows focusing from 5m to infinity. The focusing provides clear images at extremely short distances as well as optimising quality at all distances within the rifle scope's effective working range.

3 HIGH PERFORMANCE SPECIFICATIONS

The Phantom is rugged and reliable due to the high grade glass-filled modern plastics employed in the design of the rifle scope. The device can be operated in precipitation of any intensity. The nitrogen purged optical channel prevents lens from fogging caused by temperature differences or high humidity.



4 RETICLE

The standard Phantom features a red-on-green reticle with brightness control. The hunter can choose one of three reticle options, whichever best suits the specific situation. They are easily switched by the simple push of a button. If the reticle starts blinking, this indicates that the battery should be replaced within 15-30 minutes. The Phantom MD is available fitted with a switchable, two-colour MILDot reticle. You have the option of a red-on-green or green-on-green reticle.

5 REMOTE CONTROL

The remote control has 3 buttons - two duplicate the "On/Off" function of the device and IR illuminator. The third button is intended for a quick start-up of the rifle scope and IR illuminator (the device works only when the button is kept pressed). This function is very convenient when constant observation is not required or you just want the IR on momentarily.

6 STABILISED POWER SUPPLY

The rifle scope can be powered with either 1 x AA (1.5V Alkaline/Lithium or 1 x CR123A (3V) Lithium battery. The stabilised voltage of the power supply system ensures correct operation even when the battery is nearly depleted and also prevents reticle shift/brightness changes. Vertical positioning of the battery in the battery compartment enhances reliability of power supply under recoil.

Technical specifications

MODEL #	76057T	76058T
MIL-DOT MODEL #	76157T	76158T
Tube Type, Generation *	EPM66G-2	EPM66G-2
Magnification, x	3	4
Objective lens diameter, mm	50	60
Field of view, angular degrees	13	11
Eye relief distance, mm	50	50
Resolution, lines/mm, min.	45	45
Max. detection range, m **	700	800
Diopter setting, D	±3.5	±3.5
Close-up range, m	5 - ∞	8 - ∞
Power Supply, V	1.5V (1xAA) or 3V (1xCR123)	1.5V (1xAA) or 3V (1xCR123)
Water intrusion rating (IEC 60529)	IPX6	IPX6
Length, mm	278	320
Width, mm	95	95
Height, mm	103	103
Weight, without the mount, kg	≈ 1	≈ 1

* - The riflescopes use these or similar electro-optical intensifiers
 ** - in normal nighttime conditions - 0.05 lux (quarter moon), m





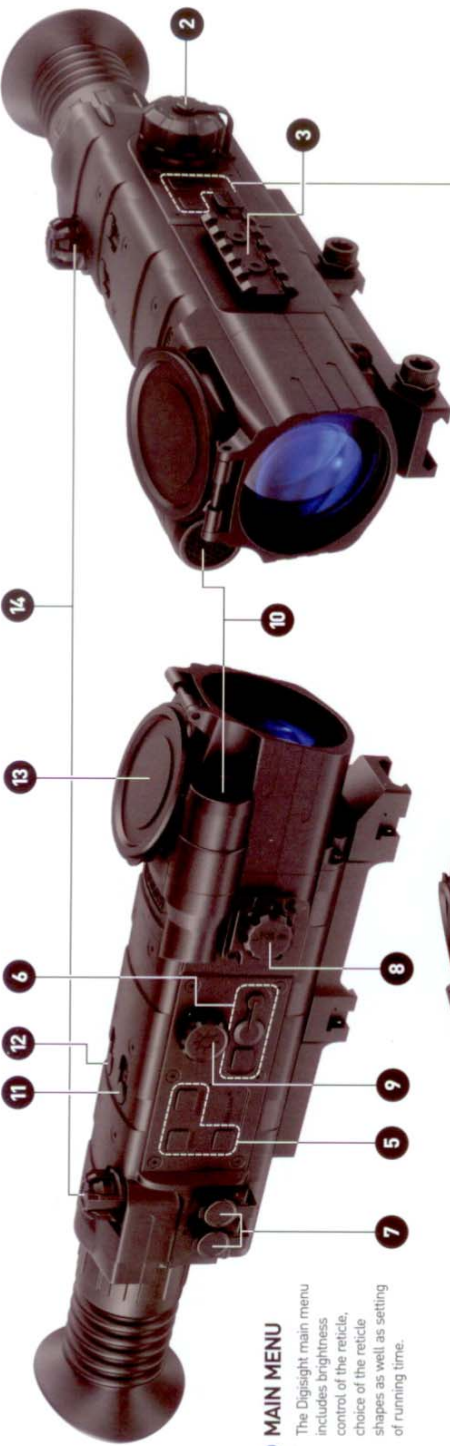
DIGITAL NV

DIGISIGHT N550

MODELS (• Digisight N550

DIGITAL NV RIFLESCOPE

- Fine Image Quality and Resolution
- Highly Sensitive CCD Array
- Switchable SunLight™ Signal Processing Program
- Multiple, Switchable Reticles
- Mini-USB Slot for Downloading Additional Aiming Reticles into the Device's Memory (can be user created using supplied software)
- Weather Resistant
- One-Shot Zeroing
- Long Eye Relief
- Built-In & External Power Supply
- Built-in Clock
- High Contrast Function
- Resistant to Bright Light Exposure
- Accurate Internal Front Lens Focus Adjustment
- Ergonomic Design and Intuitive
- Easy-to-Use Interface
- Remote Control with Secure Attachment
- Additional Weaver MIL-STD-1913 Rail for Accessories
- Manufacturing Employs Carbon Plastic and other Modern Technologies
- Flip-up Objective Lens Cover
- Video-Input / Video-Output
- Built-in IR Illuminator with Honeycomb Blind
- Separate Adjustment of Brightness and Contrast
- Switchable Display Colour
- Low Battery Indication



1 MAIN MENU

The DigiSight main menu includes brightness control of the reticle, choice of the reticle shapes as well as setting of running time.

2 WINDAGE/ELEVATION KNOB

Reticle adjustment. Movement of the reticle horizontally and vertically during sighting is performed by a special knob. Switching from the horizontal movement mode to the vertical and vice versa is performed by pressing a button located right on the knob.

3 WEAVER 7/8" RAIL

fixed to the left side of the body is used for attaching additional accessories.

4 Mini-USB

The mini-USB slot allows the riflescope to be connected to a personal computer or a laptop to upload additional (including user-created) aiming reticles.

5 QUICK IMAGE ADJUSTMENT.

A group of functions including **Contrast mode** (for a sharp contrast increase), **Color mode** (successive change of LCD display's illumination color) and **Sum Light** mode (activates sensitivity enhancement algorithm) are available.

6 VIDEO IN / VIDEO OUT

The DigiSight N550 is equipped with a socket for connection of external video recording sources or video playback sources. Switching from VIDEO IN mode to VIDEO OUT is performed by pressing a button located next to the socket.

7 EXTERNAL CONTROL

The DigiSight N550 can be operated with the help of a remote control which duplicates activation functions of the riflescope, IR illuminator and reticle inversion (see point 11). The riflescope can be powered both with 4 AA batteries, as well as with external power sources.



13 LENS CAP

Built-in flip cap. The lens cap is fixed on the scope's body to prevent loss.

12 SCREEN.

choice of four operating modes: blank screen, 'Aiming reticle' mode, 'Clock' mode, 'Aiming Reticle & Clock' mode.

14 POWERING UP

the unit, and the built-in IR illuminator; is carried out successively by gradually turning the selector switch.

Technical specifications

MODEL #

76311

Generation	Digital
Magnification, x	4.5
Objective lens diameter, mm	50
Field of view, angular degrees	5.2
Eye relief, mm	67
Exit pupil, mm	6
Resolution, lines per mm	50
Max. detection range, m *	400
Diopter setting, D	±3.5
Close-up range, m	5 - ∞
Power Supply, V	6 (4*AA)
Input Power Supply, V	DC 3.7 - 6
Water intrusion rating (IEC 60529)	IP44
Operating Temperature, °C	-10°C - +35°C
Dimensions, mm	340x95x94
Operating time (with/without IR), hour	12/ 9

* - in normal nighttime conditions - 0.05 lux (quarter moon), m

PULSAR | IMAGE QUALITY



CF-SUPER

SENTINEL | GEN 2+ |

CF-SUPER GEN

MODELS (• Sentinel GS 2x50 • Sentinel GS 3x60 • Sentinel G2+ 3x50 • Sentinel G2+ 4x60

NIGHT VISION RIFLESOPES

- Lightweight and extremely durable titanium body
- Switchable Two-Colour Range Finding Reticle or Two-Colour Mil-Dot Reticle options
- Variable reticle brightness adjustment
- Built-in IR illuminator with focusable beam
- Precision internal windage/elevation adjustment
- Quick Power-Up
- Vertical positioning of the battery ensures uninterrupted power supply when shooting
- Low battery indicator in GS (CF-SUPER GEN) model
- Stabilized power supply
- Weaver MIL-STD-1913 accessory rail
- Remote Control with Secure Attachment



With the CF-Super Tube inside

4 CF-SUPER IMAGE INTENSIFIER TUBE

At the core of the Sentinel G5 line is the unique combination of specially designed R-Contact optics and the CF-Super Image Intensifier Tube, created specifically for each other such that they will not work with any other system. The result of this exclusive technological development is the highest edge-to-edge resolution performance ever seen in a budget consumer NV product. Comfortable in use and dependable, the Sentinel G5 riflescopes offer the best performance currently available in budget intensifier tube night vision systems.

5 REMOTE CONTROL

The remote control has 3 buttons - two duplicate the "On/Off" function of the device and IR illuminator. The third button is intended for a quick start-up of the riflescope and IR illuminator (the device works only when the button is kept pressed). This function is very convenient when constant observation is not required or you just want the IR on momentarily.

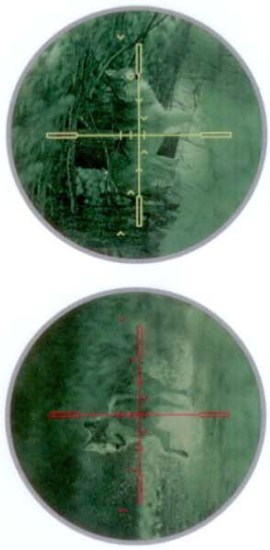


1 INTERNAL FOCUSING

The optical system employs an internal focusing mechanism (from 5m to infinity) with 'definite' click-stop focus positions. The focusing provides clear images at extremely short distances as well as optimising quality at all distances within the riflescope's working range.

2 PROTECTIVE LENS CAP

is permanently attached to the body to prevent it being lost and can be slid back down the body when observing or shooting.



3 TWO - COLOR ULTRA-FINE RANGE-FINDING RETICLE

The Sentinel reticle has a brightness control option and a range-finding scale to facilitate adjustment when shooting at different distances (provided the shooter knows the size of the target). Initially, the riflescope should be sighted at a known range (say 50m) on the central cross-hair. Distance is determined by placing a target with known width (specific value depends on riflescope's model) between the marks of the ranging chevrons '>.<.'. If the target fits between the marks, you should make the vertical adjustment according to the mark. Thus, you can make adjustments when shooting at distances of 15, 25, 50 and 100m. The reticle colour can be switched at any time from green-on-green to red-on-green to optimize performance depending on the contrast of the target/surrounding vegetation. The Sentinel G2+ is also available with a MilDot Reticle.

Technical specifications

MODEL #	76115T	76116T	76017T	76118T
MIL-DOT MODEL #	76125T	76126T	—	—

Image Tube Type (Generation)	EPM66G-2* (2+)	EPM66G-2* (2+)	CF-Super (I+)	CF-Super (I+)
Magnification, x	3	4	2	3
Objective lens diameter, mm	50	60	50	60
Field of view, °, at eye relief 50 mm	13	11	13	11
Focusing Range, m	5 - ∞	8 - ∞	5 - ∞	8 - ∞
Max. Detection Range, m **	700	800	250	300
Eye-relief, mm	45	45	42	42
Diopter Adjustment, D	+3.5	+3.5	+2.5	+2.5
Resolution in the central part, µm, min.	45	45	42	42
Power Supply, V	3V (2xAAA)	3V (2xAAA)	3V (2xAAA)	3V (2xAAA)
Grade of water-resistance (IEC 60529)	IPX4	IPX4	IPX4	IPX4
Dimensions, mm	288x90x100	320x90x100	256x90x100	290x90x100

* - The riflescopes use these or similar electro-optical intensifiers
 ** - in normal nighttime conditions - 0.05 lux (quarter moon), m





GEN II+ CHALLENGER G2+ | GEN II+

MODELS | • Challenger G2+ 1x21 • Challenger G2+ 1x21 Head Mount Kit

NIGHT VISION SCOPES

- Lightweight and Extremely Durable Compact Body
- Water and Dust Resistant (IP46)
- IR Illuminator
- Flexible Carrying Case
- Built-in Tripod Socket
- Hand-Held & Hands-Free Use
- Single Switch Button Operation



1 BUILT-IN IR ILLUMINATOR

The Challenger G2+ 1x21 is equipped with an energy-conserving wide-angled short-range IR illuminator. The device can be mounted on a Head Mount.

2 CONTROLS

The Challenger G2+ is operated with the help of a single switch, which successively activates the device and the built-in IR illuminator. Design of the switch prevents the IR illuminator from accidental activation.

3 MOUNT

The Challenger G2+ is equipped with two diametrically positioned tripod sockets which allow it to be fixed on the Head Mount for observation both with the right and the left eyes. Moreover, the Challenger G2+ can be mounted on a tripod mount with a 1/4" tripod socket.



4 BODY

The housing of metal and plastic ensures extra durability and reliability during usage. Challenger G2+ has an IP46 degree of protection (IEC 60529), i.e. this device is protected against water and dust which increases the range of its usage.

5 EYEPIECE

The device is outfitted with a new five-lens eyepiece that minimizes distortion on the edges of the field of view and increases sharpness and contrast of the image. A soft rubber eyecup conceals the light emission from the tube thus permitting a user to stay unnoticed.



Technical specifications

MODEL #	74094
HEAD MOUNT KIT MODEL #	74091

Image Tube Type (Generation)	EPM2076-2* (2+)
Magnification, x	1
Objective lens, mm	21
Resolution, lines per mm	46
Angular field of view, degree	40
Max. Detection Range, m **	400
Eyepiece adjustment, diopter	±4
Exit pupil, mm	7
Eye relief, mm	25
Operating voltage, V	3 (1×CR123A)
Tripod mount, inch	1/4
Min. operating time (IR off / on), hour	50 / 20
Operating temperature	-20 °C→+40 °C
Degree of protection, IP code	IP46
Dimensions, mm	163x79x57
Weight of the unit, kg	0.4
Weight of the head mount, kg	0.2

* The scope uses HeNe or similar electroluminescent intensifiers
 ** - in normal nighttime conditions - 0.05 lux (quarter moon), m





CF-SUPER

CHALLENGER | CF-SUPER GEN I

MODELS (• Challenger GS 1x20 • Challenger GS 1x20 Head Mount Kit
• Challenger GS 2.7x50 • Challenger GS 3.5x50

NIGHT VISION SCOPES

- Lightweight and Extremely Durable Compact Body
- Water and Dust Resistant (IP46)
- IR Illuminator
- Flexible Carrying Case
- Built-in Tripod Socket
- Hand-Held & Hands-Free Use
- Single Switch Button Operation

1 BUILT-IN IR ILLUMINATOR

The Challenger GS night vision monoculars are equipped with built-in IR illuminators which are various in design:

2 CONTROLS
The Challenger GS is operated with the help of a single switch, which successively activates the device and the built-in IR illuminator. Design of the switch prevents the IR illuminator from accidental activation.

1a The Challenger GS 1x20 is equipped with an energy-conserving wide-angled short-range IR illuminator. The device can be mounted on a Head Mount.

1b The Challenger GS 2.7x50 and 3.5x50 feature a powerful IR illuminator for observation at insufficient levels of natural illumination on above-average distances.

3 MOUNT

The Challenger GS is equipped with two diametrically positioned tripod sockets which allow it to be fixed on the Head Mount for observation both with the right and the left eyes. Moreover, the Challenger GS can be mounted on a tripod mount with a 1/4" tripod socket.



4 BODY

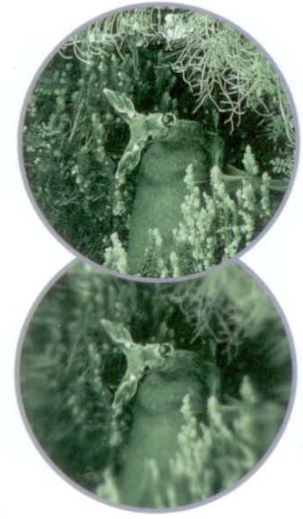
The housing of metal and plastic ensures extra durability and reliability during usage. Challenger GS has an IP66 degree of protection (IEC 60529), i.e. this device is protected against water and dust which increases the range of its usage.

5 EYEPIECE

The device is outfitted with a new five-lens eyepiece that minimizes distortion on the edges of the field of view and increases sharpness and contrast of the image. A soft rubber eyecup conceals the light emission from the tube thus permitting a user to stay unnoticed.

CF-SUPER IMAGE INTENSIFIER TUBE

At the core of the Challenger GS line is a unique combination of specially designed R-Contact optics and the CF-Super Image Intensifier Tube, which provides the highest edge-to-edge resolution performance ever seen in a budget consumer NV product.



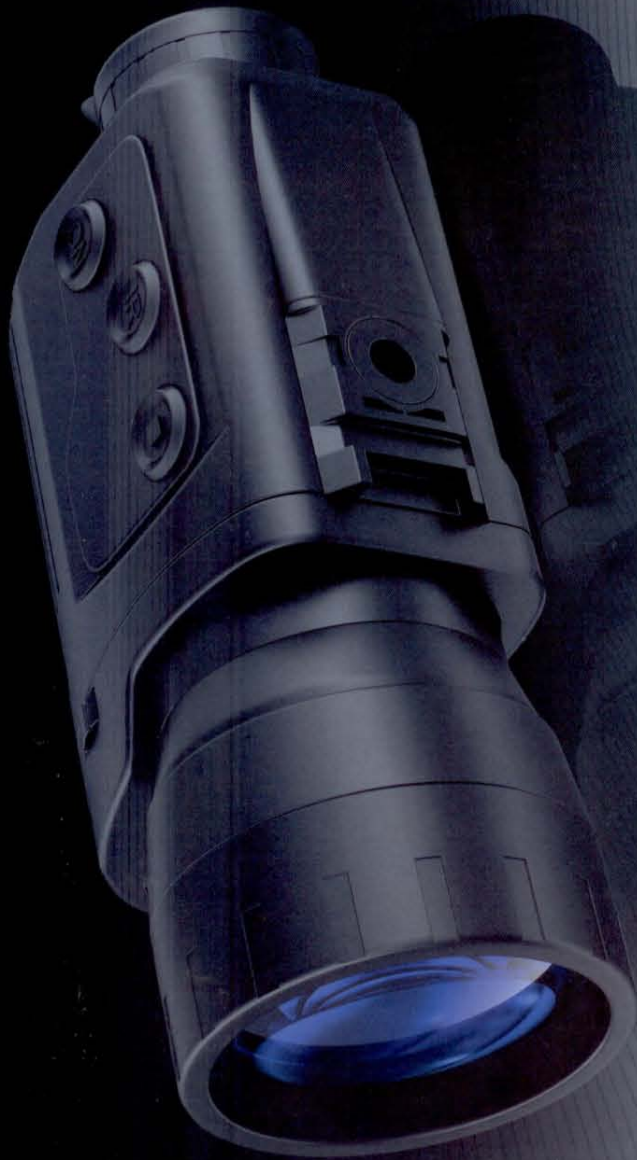
With the CF-Super Tube inside

Technical specifications

MODEL #	74099	74096	74097
HEAD MOUNT KIT MODEL #	74095	—	—
Image Tube Type (Generation)	CF-Super (I+)	CF-Super (I+)	CF-Super (I+)
Magnification, x	1	2.7	3.5
Objective lens, mm	20	50	50
Resolution, lines per mm	42	42	42
Angular field of view, degree	40	13	13
Max. Detection Range, m*	100	250	300
Eyepiece adjustment, diopter	±4	±4	±4
Exit pupil, mm	6	6	6
Eye relief, mm	12	12	12
Operating voltage, V	3 (1xCRI123A)	3 (1xCRI123A)	3 (1xCRI123A)
Tripod mount, inch	1/4	1/4	1/4
Min. operating time (IR off / on), hour	50 / 20	50 / 20	50 / 20
Operating temperature	-20 °C~+40 °C	-20 °C~+40 °C	-20 °C~+40 °C
Degree of protection, IP code	IP66	IP66	IP66
Dimensions, mm	163x79x57	202x79x57	234x79x57
Weight of the unit, kg	0.4	0.5	0.5
Weight of the head mount, kg	0.2	—	—

* - in normal nighttime conditions - 0.05 lux (quarter moon), m

PULSAR | IMAGE QUALITY



VOR Series

RECON | GENERATION DIGITAL

MODELS { • Recon 550 • Recon 550R • Recon X550 • Recon X550R

DIGITAL NV SCOPES

- Compact & Lightweight
- Great Viewing Range
- Fine Image Quality
- Sensitive CCD array
- 5x Magnification
- High-Aperture Lens (F/d=1.0)
- Excellent Resolution
- SumLight Signal Processing Program (Recon X models)
- Video Output / Video Input
- Built-In Video Recorder (Recon R models)
- Resistant to Bright Light Exposure
- 'Stealth' IR Illuminator accessory
- Additional Weaver MIL-STD-1913 rail for accessories
- Tripod Socket 1/4"
- User Choice of the LCD's Emission Colour
- Contrast Gain Function
- New five-lens Eyepiece Enhancing Sharpness and Contrast of the Image

1 ON/OFF BUTTON

2 IR ON/OFF BUTTON

3 LCD'S EMISSION COLOUR BUTTON

The user can choose preferred LCD display's colour. **THE CONTRAST INCREASE FUNCTION** is activated with the same button.

4 BRIGHTNESS ADJUSTMENT WHEEL

adjusts optimum brightness of the LCD screen for each situation.

5 BUILT-IN IR ILLUMINATOR

is responsible for usage at insufficient levels of natural illumination for improvement of observation quality.

6 INDICATION

Recon features LED indicator performing two functions. The green light indicates that the unit is on. When you turn on the IR illuminator, the LED indicator changes its colour from green to red. The moderate intensity of the LED indicator should not illuminate the observer.

7 EYEPIECE

The device is outfitted with a new five-lens eyepiece that minimizes distortion on the edges of the field of view and increases sharpness and contrast of the image. The soft rubber eyecup conceals the light emission from the tube thus permitting the user to stay unnoticed.

8 VIDEO OUTPUT / VIDEO INPUT.

The Recon is equipped with a socket for connection of external video recording sources or TV set which facilitates long-time stationary viewing, as well as video playback sources. Switching from VIDEO IN mode to VIDEO OUT is performed by pressing a button located next to the socket.

10 RECON R SERIES. RECORDING BUTTON.

The Recon 550R and Recon X550R night vision scopes are equipped with a built-in appliance allowing video recording and photography immediately during observation. Photography function (video recording function) is activated by pressing the 'REC' button.

RECON X SERIES.

The Recon X Series (Recon X550 & Recon X550R) night vision features a greater range of view (up to 400 m) due to a more sensitive CCD array and advanced program technology employed in this model - Sum Light.



11 HOLDER GROUP

The Recon night vision scopes are equipped with an original mount fitting combining a 1/4" tripod socket (for mounting on a tripod) and a 7/8" Weaver rail for mounting different accessories.



9 POWER SUPPLY

The Recon is a fully self-contained device operating on four universally available AA batteries.

Technical specifications

MODEL #	78021	78026	78031	78036
Magnification, x	4	4,2	4	4,2
Lens diameter, mm	50	50	50	50
Viewing Range, m *	5-250	5-500	5-250	5-500
Eye Relief, mm	12	12	12	12
Exit Pupil, mm	4	4	4	4
Diopter Adjustment, diopter	±5	±5	±5	±5
Resolution, lines per mm	≥ 40	≥ 40	≥ 40	≥ 40
Power Supply	6V (4xAA)	6V (4xAA)	6V (4xAA)	6V (4xAA)
Operating time (without/with IRI), hour	12/9	12/9	8/6	8/6
Video Output Signal Standard **	CCIR / EIA	CCIR / EIA	CCIR / EIA	CCIR / EIA
Camera resolution, pixel (CCIR / EIA)	500x582 / 510x492	500x582 / 510x492	500x582 / 510x492	500x582 / 510x492
Built-in Photo & Video* Recorder Availability	No	No	Yes	Yes
Memory Card Type	-	SD	SD	SD
Operating Temperature, °C	-10°C - +45°C	-10°C - +45°C	-10°C - +45°C	-10°C - +45°C
Dimensions, mm	176x83x62	176x83x62	176x83x62	176x83x62

* - in normal nighttime conditions - 0,05 lux (quarter moon), m

** - depending on the region of sale



EDGE

EDGE | CF-SUPER GEN

MODELS (• Edge GS 1x20 • Edge GS 2.7x50

NIGHT VISION BINOCULARS & GOGGLES

- Lightweight and Compact
- R-Contact Optical System
- Multi-Coated Lenses
- High Resolution Through the Field of View
- Water and Dust Resistant (IP44)
- Built-In Automatic Bright Source Protection
- Reinforced Fiberglass Body
- Built-In IR Illuminator with Variable Power
- Flexible Carrying Case
- Hand-Held & Hands-Free Use



1 BUILT-IN IR FLASHLIGHT
The Edge night vision binoculars are equipped with built-in IR illuminators which are various in design:



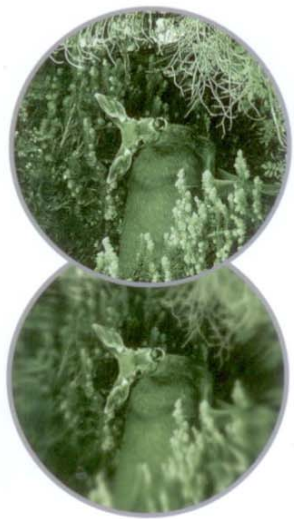
1a The device without visual magnification (1X) - the Edge GS 1x20 - is equipped with an energy-conserving wide-angled short-range IR illuminator. The device can be affixed to a Head Mount and used as goggles.

1b The Edge GS 2.7x50 night vision binocular features a powerful IR illuminator for observation at insufficient levels of natural illumination on above-average distances.

2 BODY
The housing of metal and plastic ensures extra durability and reliability during usage. Edge has an IP44 degree of protection (IEC 60529), i.e. this device is protected against water and dust which increases the range of its usage.

3 COMPACT HEAD MOUNT
For more information see page # 18-19.

CF-SUPER IMAGE INTENSIFIER TUBE.
At the core of the Edge GS line is the unique combination of specially designed R-Contact optics and the CF-Super Image Intensifier Tube, which provides the highest edge-to-edge resolution performance ever seen in a budget consumer NV product.



With the CF-Super Tube inside



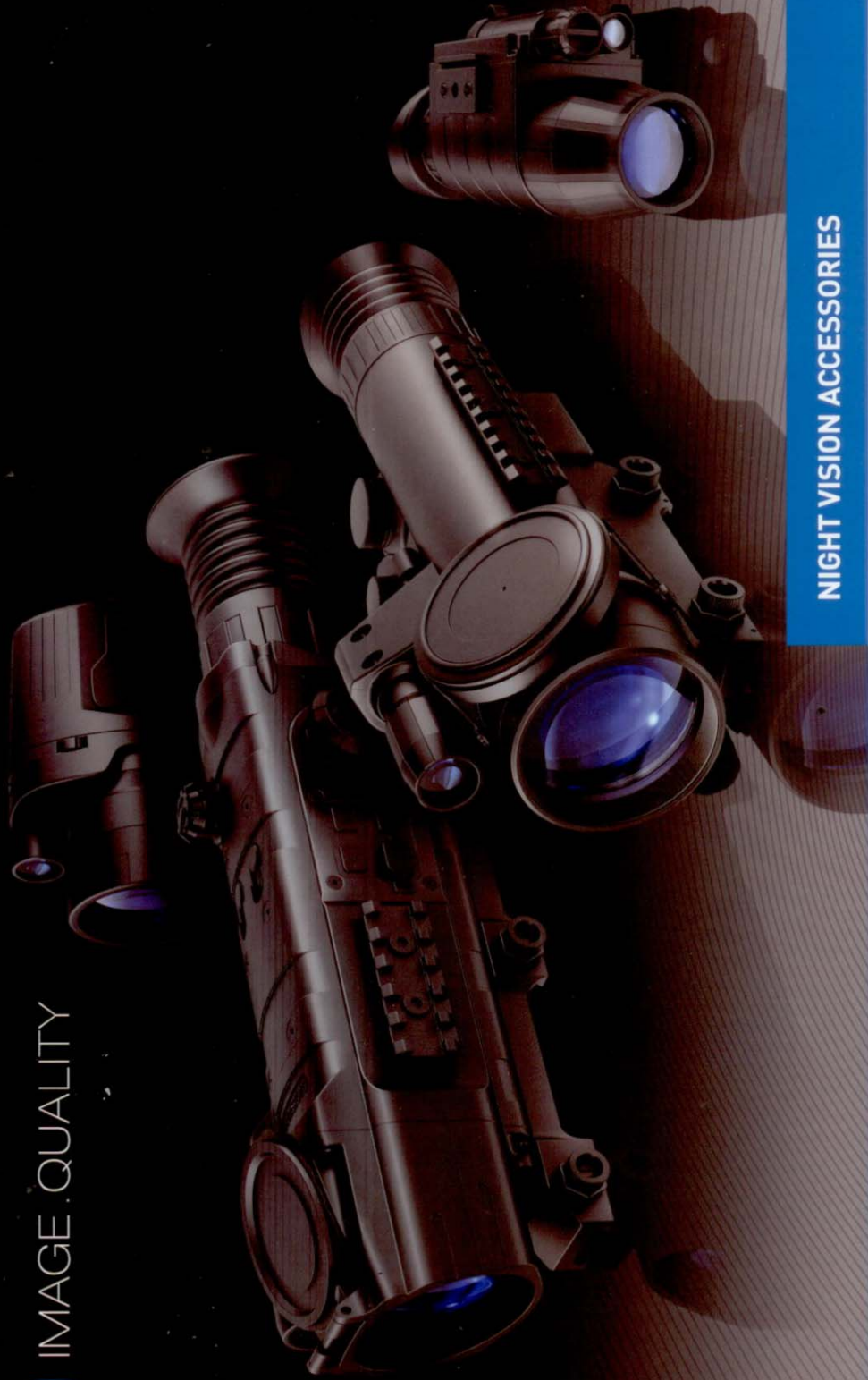
4 CONTROLS
The Edge night vision binoculars are easy in operation. The device and IR illuminator are switched by pressing buttons (ON and IR respectively) located on the upper surface of the binocular's body. Additionally, the Edge binoculars are equipped with a gradual IR illuminator power adjustment function. The wheel-shaped power controller is located next to the IR illuminator activation button.

5 EYEPIECE
The device is outfitted with a new five-lens eyepiece that minimizes distortion on the edges of the field of view and increases sharpness and contrast of the image. The soft rubber eyecup conceals light emission from the tube thus permitting a user to stay unnoticed.

Technical specifications

MODEL #	75095	75096
Image Tube Type (Generation)	CF-Super (I+)	CF-Super (I+)
Magnification, x	1	2.7
Objective lens, mm	20	50
Resolution, lines per mm.	42	42
Angular field of view, degree	40	13
Max. Detection Range, m *	100	250
Eyepiece adjustment, diopter	±4	±4
Exit pupil, mm	4	4
Operating voltage, V	3 (2xAAA)	3 (2xAAA)
Min. operating time (IR off / on), hour	50 / 20	50 / 20
Operating temperature	-20 °C~+40 °C	-20 °C~+40 °C
Degree of protection, IP code	IP44	IP44
Dimensions, mm	163x113x60	203x122x65
Weight of the unit, kg	0.65	0.85
Weight of the head mount, kg	0.2	0.2

* - in normal nighttime conditions - 0.05 lux (quarter moon), m



NIGHT VISION ACCESSORIES

- Increase Capabilities of Devices
- Extend Fields of Use
- Add New Characteristics
- Universalize Devices
- Simplify Solution of Many Tasks

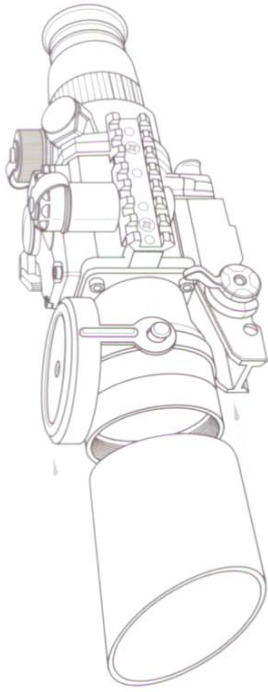
PULSAR NV ACCESSORIES

MODELS { • NV Compact Head Mount • Pulsar - 805 IR Flashlight • Pulsar - 940 IR Flashlight
• NV 1.7x Lens Converter • 50 mm Weather Guard • 60 mm Weather Guard

mod# 79102 mod# 79103

**50 mm Weather Guard
60 mm Weather Guard**

The Weather Guard, attached in front of the objective lens of the Phantom or Sentinel night vision riflescopes, will protect the objective lens against atmospheric precipitation (rain or snow). It also protects against side lighting.



mod# 79071 mod# 79076

Pulsar - 805 IR Flashlight

is a high-powered (100mW) IR illuminator offering a variable beam from spot to flood. The IR power of the flashlight can be smoothly adjusted.



Pulsar - 940 IR Flashlight

Same features as the 805 IR, but operates in the covert field of the IR-range (940nm), invisible by the unaided eye. Only visible by Digital NV or high-end image intensifiers.



mod# 79032

NV 1.7x Lens Converter

1.7x Lens Converter providing 3.5x (on Sentinel GS 2x50 CF-Super Gen Riflescope) or 5x (on Sentinel G2+ 3x50 and Phantom 3x50 Riflescopes) magnification.



mod# 79032

NV Compact Head Mount

The NV Compact Head Mount is designed for joint use with the Challenger G2+ 1x21 night vision device, Challenger GS 1x20, Edge GS 1x20 or other night vision devices with a similar bracket. This allows hands-free operation of the night vision device in partial and complete darkness. The Head Mount ensures stable positioning of a night vision device in front of the user's eyes, even while in fast motion (pacing, running, abrupt movements). The Head Mount is simple and convenient to use. Minimal protrusion of the suspension point reduces fatigue and load on the user's neck if operated for long periods of time. The Head Mount can also be paired with a camouflage cover. Combined with a night vision device, the NV Compact Head Mount is ideal for high-tech ranger games, night hiking etc. Only recommended for low magnification devices.



MODEL #	79071	79076
Objective lens diameter, mm	24	24
Wavelength, nm	805	940
Power Supply	3V (2xAA)	3V (2xAA)
Dimensions, mm	132x45x52	132x45x52

Technical specifications

NV ACCESSORIES



EXPERT & EXPERT VM

MODELS { • Expert 8x40 • Expert VM 8x40 • Expert VM 8x40 Marine

PROFESSIONAL BINOCULARS

- Progressive optical system based on an innovative Porro prism design
- Three Viewing Modes in the VM version via switchable built-in filters
- Nitrogen purged optical system
- Exterior flat protective lenses
- Ergonomic eyecups
- Adjustable eyepieces
- Exclusive Eclipse-M lens caps
- Durable glass reinforced plastic body
- Antireflection coating based on TRUE COLOR™ vacuum technology
- Noticeable bright yellow inserts in the binocular's body (Marine version)

1 DESIGN FEATURES

The Expert was intended from the outset as a platform for several future application developments. The solid, yet very light, glass-reinforced plastic body safely encases the internal moving parts. Nitrogen filling prevents lenses from fogging. Designed as a waterproof, extra durable system the binocular Expert complies with IPX7 standards of water-resistance (IEC 60529). Comfortable in use, and to carry, the binocular Expert is surprisingly light and compact for the performance level it provides.



5 EXPERT VM. VIEWING MODES.

The VM version of the line also boasts switchable internal filters to enhance viewing experience. Really helpful in foggy conditions, or bright light, they work by polarizing the incoming light or cutting out some of the spectrum. Changing the viewing modes is as simple as moving a switch on the bottom of the binocular.



Observation without the use of the filters

Observation in Reflection Mode

Observation in **Reflection Mode** neutralizes or minimizes the dazzling effect of light reflected from non-metallic surfaces (water, snow, ice or glass).



The **Contrast Mode** is used in twilight conditions for enhanced image contrast and visual reduction of fog. The yellow filter used in this mode also features anti-haze properties.

2 PROTECTIVE FILTER

Protective, flat front lenses permit use of the binocular in extreme environmental conditions protecting the objective lenses against scratches, dust, sand and moisture.

3 EYEPIECES

Adjustable eyepieces allow interpupillary movement. Ergonomic eyecups maximize comfort and cut out extraneous light.

4 LENS CAPS

Eclipse-M lens caps remain attached at all times and can protect the front optics from rain.

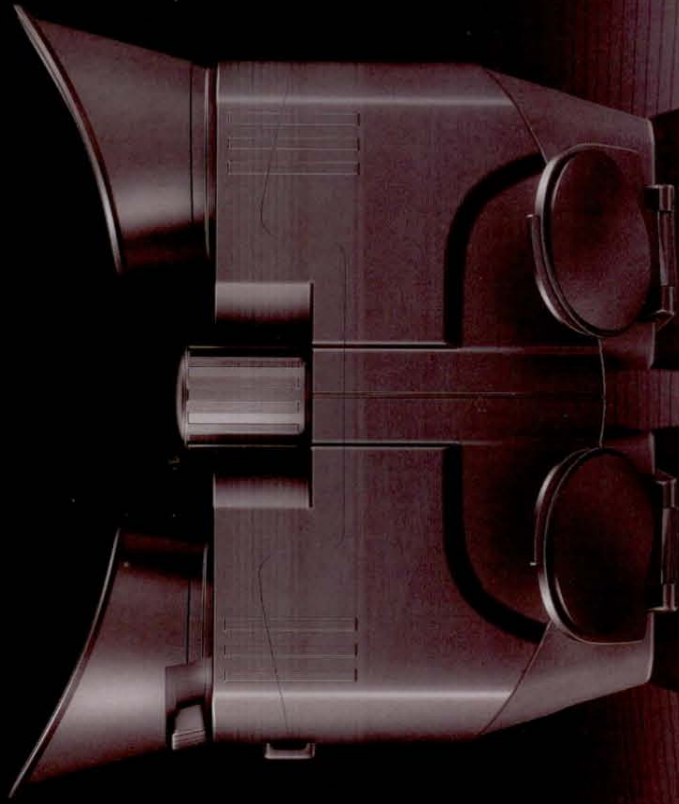
Technical specifications

MODEL #

72071

72081/72091

Objective Lens Diameter, mm	40	40
Magnification, x	8	8
Eye Relief, mm	15.0	15.0
Exit Pupil, mm	5.0	5.0
Field of View, degree	8	8
Linear Field of View at 1000 m, Distance, m	125	125
Focusing Range of the Center Focus Mechanism, diopter	+6	+6
Focusing Range of the Eyepieces, diopter	+3.5	+3.5
Minimal Focusing Distance, m	5	5
Grade of Water-Resistance	IPX7	IPX7
Tripod Mount, inch	1/4	1/4
Dimensions, mm	200x136x80	200x136x80
Extra Viewing Modes Available	No	Yes
Body color	Black	Black / Black&Yellow



8x21 10x21

SIDEVIEW

MODELS { • Sideview 8x21 • Sideview 10x21

COMPACT BINOCULARS

- User-Friendly
- Pocket-Sized
- Crisp Image
- Slim Design
- Soft-Touch Coating
- Durable Body
- Eclipse-M Lens Caps



1



1 PROTECTIVE LENS CAPS

The lens caps are fixed to the binoculars' body to prevent loss. During observation the lens caps can be flipped back on the body and stored in a dedicated 'niche'. The lens caps closely adjoin to the body which makes them literally invisible.

4

2 EYESHADE

Soft, ergonomic eyeshade protects your eyes against extraneous light when using the binocular. This feature is especially useful in sunny weather and for sunset or sunrise observation.

2

3 DIOPTRIC ADJUSTMENT

The Sideview binoculars employ a comfortable diopter adjustment lever, built in the right eyepiece. The lever is used to balance visual acuity between the right and the left eyes.

5



5 CARRYING CASE

The Sideview binoculars are equipped with a convenient solid case for carrying on a neck or waist belt. The case has an external pocket for small items.

4

4 BODY
Soft-touch body coating ensures a reliable grip even in wet hands - the binoculars will not slip, operating the Sideview features pleasant tactile sensations.



3

Technical specifications

MODEL #

72141

72142

Objective Lens Diameter, mm	21	21
Magnification, x	8	10
Eye Relief, mm	10	7.5
Exit Pupil Diameter, mm	2.6	2.1
Angular Field of View, degree	7	6.5
Diopter compensation, diopter	+5	+5
Diopter compensation of the right eyepiece, diopter	5	5
Close Focusing Distance, m	-20	-45
Operating Temperature, °C	-20	-45
Dimensions, mm	124x99x45	124x99x45
Weight, g	190	190

