



**A NEW STAR..
IS GUIDING IN
A NEW ERA**

CF-SUPER

CHALLENGER | GEN II+ CF-SUPER GEN |

MODELS | • Challenger G2+ 1x21 • Challenger GS 1x20 • Challenger GS 2.7x50 • Challenger GS 3.5x50

- Lightweight and Extremely Durable Compact Body
- Water and Dust Resistant
- IR Illuminator
- Flexible Carrying Case
- Built-in Tripod Cocket
- Hand-held & Hends-Free Use
- Single Switch Button Operation



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1 BUILT-IN IR ILLUMINATOR

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

1a The devices without visual magnification (1x) are 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.

2 CONTROLS

The Challenger 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 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 can be mounted on a tripod mount with a 1/4" tripod socket.

4 BODY

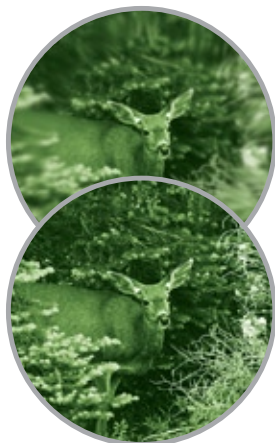
The housing of metal and plastic ensures extra durability and reliability during usage. Challenger is protected against water and dust which increases the range of its usage.

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 #	74094	74099	74096	74097
HEAD MOUNT KIT MODEL #	74091	74095	—	—
Image Tube Type (Generation)	EPM207G-2* (2+)	CF-Super (I+)	CF-Super (I+)	CF-Super (I+)
Magnification, x	1	1	2.7	3.5
Objective lens, mm	21	20	50	50
Resolution, lines per mm	46	42	42	42
Angular field of view, degree	40	40	13	11
Max. Detection Range, m **	400	100	250	300
Eyepiece adjustment, diopter	±4	±4	±4	±4
Exit pupil, mm	7	6	6	6
Eye relief, mm	25	12	12	12
Operating voltage, V	3 [1xCR123A]	3 [1xCR123A]	3 [1xCR123A]	3 [1xCR123A]
Tripod mount, inch	¼	¼	¼	¼
Min. operating time (IR off / on), hour	50 / 20	50 / 20	50 / 20	50 / 20
Operating temperature, °C	-20 ... +40	-20 ... +40	-20 ... +40	-20 ... +40
Degree of protection [IEC 60529]	IP65	IP65	IP46	IP46
Dimensions, mm	163x79x57	163x79x57	202x79x57	234x79x57
Weight of the unit, kg	0.4	0.4	0.5	0.5
Weight of the head mount, kg	0.2	0.2	-	-

* - The scope use these or similar electronic-optical intensifiers ** - in normal nighttime conditions - 0.05 lux (quarter moon)