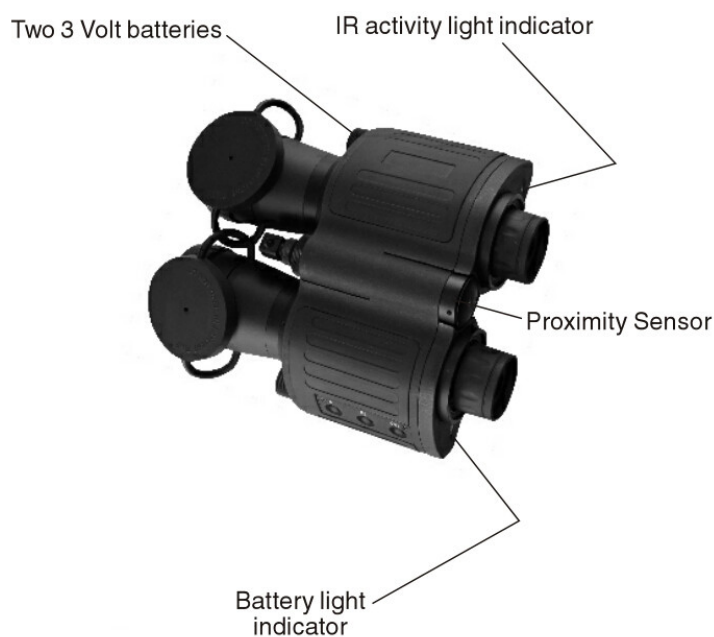
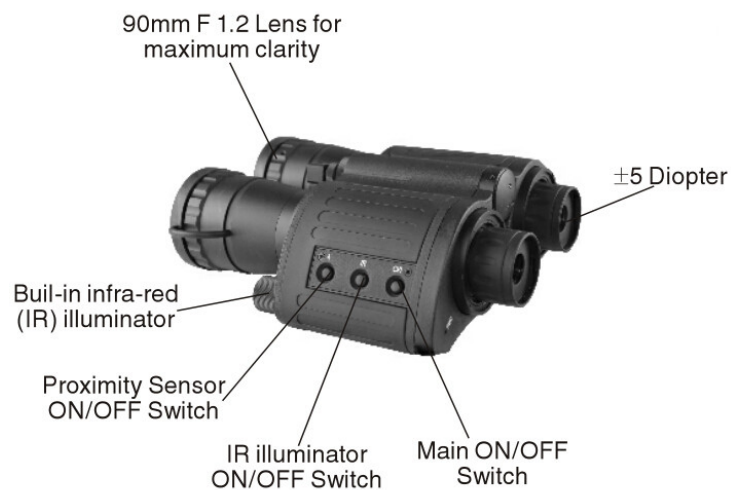


BNV-1/5x “Night Scout”  
Night Vision Binoculars  
with twin 1+Gen II Tubes



User Manual



## SPECIFICATIONS

Magnification.....	5x
Lens systems.....	F1.2,90m
Field of View.....	20°
Range of Focus.....	20 to ∞
Bright Light Cut off.....	Yes
Power Supply.....	2x3v CR123A
Batter Life.....	20-40 hours
Operating Temperature.....	-40 °C to 50°C
Storage Temperature.....	-50 °C to 70°C
Dimensions.....	225mmx150mmx60mm
Weight.....	1.5kg / 3.3lbs

\*Manufacturer reserves the right to change the above specifications at any time without notice

## CAUTION:

THIS PRODUCT CONTAINS NATURAL RUBBER LATEX WHICH MAY CAUSE ALLERGIC REACTIONS

The information in this manual furnished for information use only, is subject to change without notice, is not to be construed as a commitment by Manufacturer

Manufacturer assumes no responsibility for any errors or inaccuracies that may appear in this book

## FEATURES

- ◆ Great for Security, Police & Military, also for hunting, boating
- ◆ Total darkness technology
- ◆ Built-in IR illuminator
- ◆ Manual focus
- ◆ Easy to use digital controls
- ◆ Rugged and versatile design
- ◆ Light weight and comfortable
- ◆ Water and fog resistant
- ◆ Superb 5x lens system
- ◆ Soft case
- ◆ Camera adaptability
- ◆ Tripod mountable
- ◆ One year warranty

## APPLICATION

The Night Vision Binocular “Night Scout” is a complex optoelectronic system for individual use. The device consists of the objective lenses, eyepieces and the body. The body contains two image intensifier tubes assembled with an integrated high voltage power source and one three-volt battery housing. When installing the batteries one should keep in mind that the polarity of the batteries should coincide with the diagram on the body next to the battery housing cap.

Objective lens protective covers are intended to protect the objective lens from dust and scratches. They will also act as daylight filter allowing you to use the binocular in daylight or other bright light situations. The pin-holes in the center of the protective covers allow the user to check the operational capability of the device in the daylight conditions.

Note: Do not the test the scope in day light conditions even with daylight filter/lens caps on for more than ten (10) minutes.

## BATTERY INSTALLATION

Install standard CR123A batteries as follows:

- 1.Unscrew the battery cap
- 2.Insert 2xCR123 battery ,observing the polarity as Indicated.
- 3.Replace the battery cap and screw cap hand tight

## OPERATION

- Take the binoculars out of case
- Install the battery
- Press the button marked ON to turn unit on with the protective lens covers still attached to the lenses. Do not turn unit on in the daytime without the protective lens caps on. You should see a green glow in the eyepieces.
- Observe the scene, and adjust the diopters for the optimal image clarity

- You may now enter a dark environment or simply shut the lights off in order to darken the room.
- Next, remove the lens caps / daylight filters and observe the scene. You should readjust the diopters for maximum clarity. Remember the focus range of the binocular is 20' to infinity
- The unit will tune on and off automatically when you bring it to or take away from your eyes. You will notice the green LED change to red when the sensor is on.
- To increase battery life the LED diodes will go off after 10 seconds.

## FOCUSING

To focus the Night Scout first you will need to adjust the diopters. Simply turn the diopters clockwise until they stop. Then while looking through the diopters at an object, slowly turn the diopters back counter clockwise until the grain the image is sharp.



## INFRA-RED ILLUMINATION

Infra-red illuminators, or IR illuminators, are common in the night vision. The IR light greatly enhances the performance of the Night scout while remaining almost totally invisible to the naked eye. The IR illuminator on the Night Scout is located on the side of the unit. To turn the IR on, push the IR button and you will see an orange indicator light come on. It is important to remember that IR illuminator is simply an infra red light source, and like any light source it may lose its efficiency over a great distance, and IR focus can be adjusted.

NOTE: The IR will automatically turn off when the unit's main power is turned off.



## LOW BATTERY INDICATOR

If the batteries start losing voltage, LED indicator will start to pulse, it is time to change your battery.

## USING THE CAMERA ADAPTER (optional)

To use your Night Scout with a 35mm camera or camcorder you will need the following:

- 1) If you plan to use a camcorder then your camcorder must have a MACRO feature. Most modern camcorders today have a MACRO feature built in.
- 2) If you plan to use a 35mm camera you will need a MACRO lens. If you don't have one we will advise that you contact your local camera store.
- 3) You may or may not need STEP-UP or STEP-DOWN ring in order to adapt the camera adapter to your lens.

**NOTE:** The camera adapter comes with 37-mm and 52mm threads. If you need other sizes your local camera store should be able to help.

- Screw the camera adapter onto the front of your Video camera's lens or your 35-mm camera's lens.
- Loosen the three set screws on the camera adapter.
- Place the camera adapter over the Night Scout's eyepiece.
- Tighten the three set screws to fit snugly to the Night Scout's eyepiece.
- You may need to focus the 35mm camera or video camera in combination with the Night Scout in order to get the sharpest possible image.
- We suggest that you find an open space to work in. Focus the Night Scout so that the scene is at its sharpest. For the best results you should disable the auto focus (if any) on either the 35-mm camera or the video camera and manually focus the 35-mm or the video camera. Once the image is sharp, then simply adjust the Night Scout's front lens to change the focus.
- An important part to remember is that you are not taking a picture of an object that is far away from you, but you are actually taking a picture of a phosphorous screen of the Night Scout that is only 2-3 inches away.

### **TRIPOD MOUNTING**

Night scout is tripod mountable. You can mount Night Scout on tripod with 1/4 inch thread mount.

### **WARNINGS AND CAUTIONS**

- Always remember to turn off the Night Scout when it is not in use, if you do not plan on using your device for a period of more than 10 days
- Keep lens cap / daylight filter on when not in use
- Avoid contact with dust, steam, and gas
- The Night Scout is not harmful to the user or the environment
- Do not disassemble except to clean the front lens and the eyepiece: it will void your warranty.
- Evaluate the scopes function by looking through it in a lit environment with the daylight filter lens cap on. Never use in daylight without the light filter lens cap on. Do not surpass ten minutes of testing.
- Never point the Night Scout at a bright light source. If the scope shuts off automatically after directing it at a bright light source, turn the unit off and wait 1-2 minutes before turning the unit back on.
- Adverse atmospheric conditions such as fog, smog, or haze and a lack of ambient light (moon or starlight) may diminish the effective viewing distance. All technical data for this unit was compiled in a controlled environment.
- If you use the rubber eye caps for a long period of time, you may suffer skin inflammation. If you develop any symptoms, consult a doctor immediately.

### **TROUBLESHOOTING**

**Q:** Flashes, flickers, or clicking occurred while operating

**S:** If it occurs within the first five minutes of inserting new batteries it is normal and the device, will resume normal operation soon thereafter. If it occurs for more than 10 minutes contact your dealer or other authorized service representative for service instructions.

**Q:** Dark spots on screen

**S:** These are either cosmetic blemishes in the intensifier tube or dust particles. Dust particles can

be cleaned following instructions in “cleaning eye”

**Q:**Screen becomes darker than in previous use.

**S:**Replace batteries. If the problem persists contact your dealer or other authorized service representative for service instructions.

**Q:**Image not clear

**S:**Adjust objective lens and /or the eyepiece. Turn on IR

#### **ONE YEAR PRODUCT WARRANTY**

This product is guaranteed to be free from manufacturing defects in material and workman-ship under normal use for a period of 1(one) year from the date of purchase. In the event a defect that is covered by the foregoing warranty occurs during the applicable period stated above. Manufacturer RUSOPTICS, at its option, will either repair or replace the product, and such action on the part of manufacturer shall be the full extent of manufacturer’s liability.

This warranty does not cover a product (a) used in other than its normal and customary manner; (b)subjected to misuse;(c)subjected to alternations, modifications or repairs by the customer of by any party other than RUSOPTICS without prior written consent of manufacturer.

**CUSTOMER IS HEREBY NOTIFIED THAT OPERATION OF THE EQUIPMENT DURING DAYLIGHT HOURS OR UNDER ANYEXCESIVE LIGHT CONDITIONS MANY PERMANENTLY DAMAGE THE INTERNAL COMPONENTS OF THE UNIT AND SAID DAMAGE WILL NOT BE COVEREDUNDER THIS WARRANTY.**