



BDN 14x50 Day / Night Binoculars

This unit is a sophisticated electronic device. To operate it properly, please read this manual carefully. Ignoring operation procedures described in this manual will void your warranty.

- **NEVER** disassemble the unit. This device contains a source of high voltage, which may be hazardous to your health.
- **NEVER** open objective lens of an active unit in bright light, including daylight. In the daytime the objective lens must be covered by caps. A tiny hole in each cap provides enough light for daytime testing.
- **NEVER** aim active unit at intense light sources, such as lights, headlamps, campfires, the Moon, etc.
- **NEVER** reverse the polarity of a battery.
- **NEVER** connect the unit to external power sources.
- **ALWAYS** remove battery when the unit not in use for a long period.
- **ALWAYS** keep the objective lenses covered when not in use.
- **ALWAYS** store the unit in a warm dry place.

Precautions

BDN 14x50 is a sophisticated precise optical instrument equipped with electronics. It should be handled with due care:

- Unit contains fragile components. Avoid impacts, dust, moisture and sharp changes of temperature.
- Do not touch the optical surfaces other than for cleaning. Doing so may damage the anti-reflection coating.
- Clean optical surfaces with professional lens cleaning supplies.
- Use only a soft clean cloth to clean the exterior of the device.
- Keep the unit away from sources of heat, such as heating appliances, sunlight or central heating.
- Switch off the unit and remove the battery during the extended periods of non-operation.
- Do not keep the device at temperatures higher than 60°C (140°F).
- Do not apply excessive force or pressure to the lens assembly, movable parts and thread connections.
- Small dark and/or light points may be seen in the field of view due to considerable optical magnification of the eyepiece. This does not affect the operational capabilities of the device.

FEATURES

This optical instrument utilizes unique optical scheme to that enables observer to use the high magnification binoculars 24 hours a day, eliminating the need for separate day and night optics.

- Day / Night round the clock model
- High magnification with large objective lens
- Rigid construction
- Weather proof, water resistant
- Wide field of view
- Easy switch between day and night modes

SPECIFICATIONS

	Day	Night
Magnification	14.0	5
Field of view, °	4.7	14.7
Objective lens diameter, mm	50	
Dioptric correction	±5	
Typical resolution of the Image Intensifier Tube (IIT), lp/mm	45-72	
Interpupillary distance adjustment range, mm	55-74	
Operating temperature, °C	-40°C to +55°C	
Battery	2xAA	
Dimensions, mm	235x 168 x 74	
Weight, g	1,500	

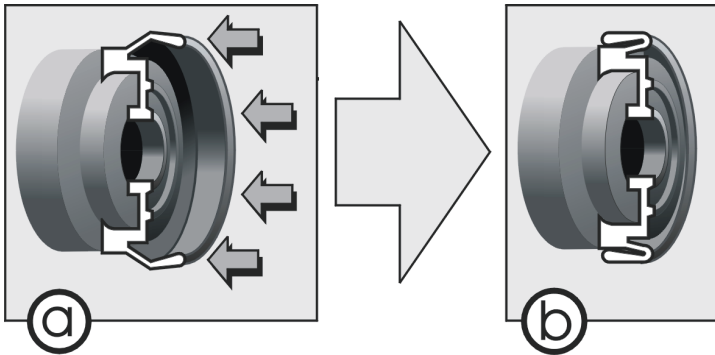
DESIGN AND APPEARANCE



- | | |
|----------------------------------|---------------------------------------|
| 1 – Body | 2 – Day / night switch |
| 3 – Eyepieces | 4 – Eyepiece dioptic adjustment knobs |
| 5 – Battery compartment with cap | 6 – Rubber grip |
| 7 – Objective lens caps | |

OPERATION DURING DAY

- Unpack the unit from the soft case, trying to keep the lenses closed by caps.
- **Make sure that the switch (2) is set to “D” position.**
- Remove the objective caps (7). Aim the unit to the observed object.
- The eye cups can be folded as shown below for eyeglasses wearers.



- Adjust the distance between the eyes by turning both eyepiece assemblies (3) until two images converge into one. This adjustment is made tough intentionally to provide for a water resistance.
- Adjust the focus individually for each eye using the focus adjustment knobs (4).
- put on the objective lens caps after you finish observation.

OPERATION DURING NIGHT

- Unpack the unit from the soft case.
- If the batteries were not installed, unscrew the battery cap (5) and install the batteries, observing correct polarity as drawn schematically on the body (1) (“-“ towards the bottom of the compartment).
- The eye cups can be folded as shown below for eyeglasses wearers.
- Remove the objective lens caps (7). Aim the unit to the observed object.
- Flip the switch (2) into “N” position. You will see greenish light through the eyepieces with outlines of the observed object.
- Adjust the distance between the eyes by turning both eyepiece assemblies (3) until two images converge into one. This adjustment is made tough intentionally to provide for a water resistance.
- Adjust the focus individually for each eye using the focus adjustment knobs (4).
- Put on the objective lens caps and flip the switch into “D” position after you finish observation.

WARRANTY

NEWCON warrants this product against defects in materials and workmanship for one year from the date of the original purchase, but no more than 18 months from the date of manufacturing. Longer warranty is available, subject to the terms of the specific sales contract. Should your Newcon product prove to be defective during this period, please deliver the product securely packaged in its original container or an equivalent, along with the proof of the original purchase date, to your Newcon Dealer.

Newcon will repair (or, at its option, replace with the same or comparable model), the product or part thereof, which, on inspection by Newcon, is found to be defective in materials or workmanship.

What This Warranty Does Not Cover:

NEWCON is not responsible for warranty service should the product fail as a result of improper maintenance, misuse, abuse, improper installation, neglect, damage caused by disasters such as fire, flooding, lightning, improper power supply, or service other than by a NEWCON Authorized Service.

Postage, insurance, and shipping costs incurred while presenting your NEWCON product for warranty service are your responsibility.

If shipping from North America, please, include a cheque or money order payable to NEWCON OPTIK for the amount of \$15.00 to cover handling and return shipping.

CUSTOMER SUPPORT

Should you experience any difficulties with your Newcon Optik product, consult this manual first.

If the problem remains, contact our customer support department at +1(416) 663-6963 or toll free at 1-877-368-6666 (North America only).

Our operating hours are 9am-5pm, Monday - Friday, Eastern Standard Time.

Under no circumstances should the equipment be sent to Newcon without authorisation from our technical support department. Newcon accepts no responsibility for unauthorized returns.

To locate NEWCON Authorized Dealer call +1(416) 663-6963 or fax +1(416) 663-9065, email: newconsales@newcon-optik.com

Web: www.newcon-optik.com

The defective products should be shipped to:

From the USA only:

2331 Superior Ave. Cleveland, OH 44114, USA

From all other countries:

105 Sparks Ave., Toronto ON, M2H 2S5, CANADA

QUALITY ACCEPTANCE CERTIFICATE

Image Intensifier Tube Serial Number: _____

	Min	Measured
Resolution, lp/mm	45	
Photocathode sensitivity, integral, $\mu\text{A}/\text{lm}$	500	
Light amplification	25,000	

BDN 14x50 serial number _____

This Day / Night Binoculars BDN 14x50 meet all technical specifications and have passed the inspection.

Date of production: _____

Quality Inspector signature: _____

Quality Assurance Seal

NEWCON OPTIK™ 2010

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