

**Attention! Before operating the binocular read this manual attentively!**

- Do not use this monocular in daytime conditions with the lens cover removed.
- Don't forget to switch off the monocular and don't direct it to bright light sources (IR laser illuminators, halogen lamps, sun light etc.) even with the lens cover closed.
- Protect your monocular from shocks and falls from height
- Don't submerge the monocular into water.
- Don't disassemble the, monocular yourself. It may annul the warranty for your device.
- If you don't use the monocular for one day or more, the batteries should be extracted from the battery compartment.

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**10. Certificate of acceptance**

Night vision monocular D128, serial No \_\_\_\_\_

Lens F26  F80

Installed image intensifier tube \_\_\_\_\_, serial No \_\_\_\_\_

Date of the production \_\_\_\_\_.\_\_\_\_\_.201\_\_

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### **9. Warranty**

Manufacturer guarantees that the quality of the monocular corresponds to the technical specification requirements if a customer adheres to storage, transportation and usage instructions.

Operation life due to the warranty constitutes 12 month.

Manufacturer repairs or replaces the monocular if the defect at his fault occurs during the warranty period.

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### **Contents**

1. Intended usage
2. Package contents
3. Specifications
4. Structure of the device
5. Operating procedure
6. Maintenance
7. Storage and transportation rules
8. Typical defects and troubleshoot.
9. Warranty
10. Certificate of acceptance
11. Manufacturer

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**1. Intended usage**

- The monocular is intended to observe mobile and immobile objects at night. It may be used by guards, tourists, hunters, fishermen, for wildlife observation (birds, animals) at night, for terrain orientation, while yachting, astronomical observations etc.

**2. Package contents**

- Night Vision monocular D128 \_\_\_\_\_ 1 piece
- Carrier bag \_\_\_\_\_ 1 piece
- Spare parts, instruments, accessories (if ordered) \_\_\_\_\_ 1 piece
- User’s manual (passport) \_\_\_\_\_ 1 piece

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**8. Typical defects and methods of their removal**

Typical defects and methods of their removal are given in table below.

Defect	Probable cause	Troubleshoot
1. No image on the display of the device. 2. Image brightness on the display is low.	1. Batteries discharge. 2. Contact between the battery compartment cap and power supplies is broken. Insufficient voltage of the battery.	Change power sources. Renew the contact. Change power sources.

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**7. Storage rules**

The binocular should be kept in a case, in a warm heated aired room with relative humidity up to 80% at a temperature from 5°C up to 30°C. There shouldn't be acid fumes, alkali or other aggressive admixtures in the air.

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**3. Specifications**

1	Magnification, X	1x
2	Image intensifier tube, Gen.	2+ or 3
3	Angle vision, degree	40±2
4	Focal length of objective lens, mm	F26
5	Focus limit, m	up 0,25 to ∞
6	Detection range (object of 0.5x1.8m; illumination of 5x10 <sup>-3</sup> lux), m	up to 150
7	Eye relief, mm	40
8	Power supplies, rated voltage	AA – 1 pcs, 1.5 V
9	Operating time with power supply, (without IR illuminator, at	25
10	Degree of protection according to EC 60529 (on request)	IPX5 (IPX7)
11	Dimensions, mm	129x68x55
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#### 4. Structure of the device

- The whole structure of the device is presented in the following figure



- |                                           |
|-------------------------------------------|
| 1. Body                                   |
| 2. Battery compartment                    |
| 3. Switch ON/OFF                          |
| 4. Ocular                                 |
| 5. Lens                                   |
| 6. Lens Focusing Ring                     |
| 7. Lens cover                             |
| 8. Battery compartment cover              |
| 9. IR- illuminator 880nm                  |
| 10. Bracket for additional IR illuminator |

#### 6. Maintenance

##### CAUTION!

Your device can be used at low temperatures. However, when the unit is brought back into a warm place, you must wait approximately 2-3 hours before using the unit again. Failure to do so may result in damage due to condensation appearing on the internal circuitry of the unit.

Clean the lens with professional lens cleaning supplies intended for multi coated optics. Blow any dust or dirt off the lenses using dry, compressed air. Clean the unit housing with a soft, clean cloth.

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### 7. Use of the device with additional accessories

You can use your monocular with additional equipments:

- 1) Additionally a potent IR-illuminator can be mounted on the monocular for detection and recognition of the objects on a big distances.



- 2) With the help of MK123/MK124 brackets the monocular can be mounted to day devices to use them together in poor light conditions.



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### 5. Operating procedure

You can check your device in daytime conditions (or on light). Make sure that the lens cover (7) is on the lens (5).

Insert batteries as it is indicated on the housing (1). Turn the switch (5) up to stop. If your monocular is OK you can see a green image in the oculars. Switch off your monocular.

You can leave the batteries inside the monocular if you are planning to use it soon. Otherwise remove the batteries.



1. Make sure that the switch (3) is in the position as showed in the figure.
2. Insert the batteries into the monocular as indicated on the housing (if you haven't done it during an advance checking).

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1. Make sure that the switch (3) is in the position as showed in the figure.
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3. Turn the switch (3) up to stop.
4. Make sure that a bright light is absent and take off the lens cover (7).
5. Direct the monocular at an observable object.
6. Set up the ocular (4): make a diopter adjustment to get maximum of a clear image.
7. Turn the lens focusing ring (6) to get a clear image.
8. You can use the built-in IR illuminators in conditions of complete darkness (for short distances).

Slide the fuse of the switch (3) as showed in the figure and turn it to the next position

IR1 or IR+

You can use it at a short distance, up to 10m.



When the built-in IR illuminator is working you'll see a red dot in the image

9. After use close the lens (5), switch off the monocular and remove the battery. If you used the monocular in conditions of high humidity pull the binocular out of a carrier bag, open the battery compartment cover (8), take off the lens cover (7) and leave the monocular in a dark and dry place till the next use.

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