

Night Vision Sight

S 2.5×50

Manual

2003

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Attention!

Before exploitation of a sight acquaint with the present operation manual. The damage of the device to a consequent of incorrect exploitation and storage conducts to the discontinuance of the warranty bonds of the producer.

1. Description of the sight

S 2.5x50 (in a further sight) is the generation I night vision hunting sight with the built-in infra-red (IR) LED illuminator and is intended for orientation on terrain and supports of aiming fire from the hunting weapon in conditions of low intensity of illumination at ambient temperature from a minus 20 up to a plus of 40 grades of Celcius. The distance of vision of the target depends on conditions of observation and nature of the target. The applying of the IR-illuminator is effective on distances up to 100 m. The device has following features:

- the lenticles of a lens have special "night" a vacuum enlightenment;
- a projection red aiming reticle;
- brightness control of an aiming reticle;
- all-metal a high-strength body;
- LED indicators of operational modes;
- a wide-angle field of view;
- electrostatic protection of image converter tube.

2. Characteristics

The type of mounting	weaver
Gain of light	1000
Magnification	2,5 ^x
Objective aperture	50 mm
Angular field of vision	9°
Eye relief.....	50 mm
Diopter adjustment	± 4
Power of the IR- illumination not less	20 mW
Supply voltage.....	3 V (AA, 2 pcs)
Overall dimensions with rubber eyepiece	280x102x87 mm
Mass no more	1,05 kg

3. Complete set

Sight	1 pcs.
The operation manual	1 pcs.
Case	1 pcs.
Weaver rail	1 pcs.
Bolt	3 pcs.
Box	1 pcs.

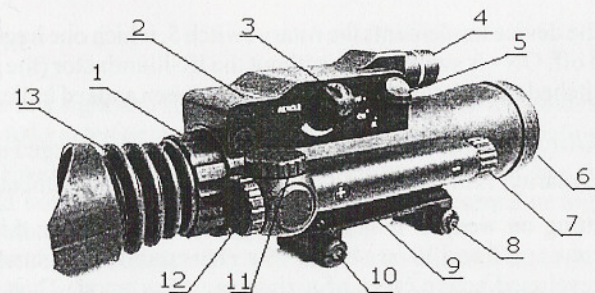


Fig. 1 Exterior of the sight S 2.5x50

1 - diopter adjustment; 2 - LED-indicators of operational modes; 3 - reticule brightness control; 4 - IR-illuminator; 5 - power switch ; 6 - lenses; 7 - battery compartment; 8 and 10 - fixing screws; 9 -weaver bracket; 11 - elevation adjustment; 12- windage adjustment; 13 - rubber eyepiece;

4. Design of the sight

The exterior of a sight is rotined in a figure 1. The basis of the sight is the structural steel hull, to which one the main clusters and gears fasten: a cover of a lens, gears of adjustments arranged under covers 11 and 12, IR- illuminator 4, eyepiece with rings of tuning 1, rubber eyepiece 13 and bracket 9.

The actuation of the device implements the rotary switch 5, which one has three positions: OFF - is switched off, ON - is switched on without the IR-illuminator (the green indicator shines), IR - is switched on with the IR-illuminator (the green and red indicator shines).

The batteries of AA-type are pasted into a battery compartment arranged under a cover 7. Attention! Abide polarity! Is indicated on a cover of a battery compartment.

The elevation setting on weapon is made through a bracket 9. For this purpose it is necessary to unscrew nuts 8 and 10 on a bracket 9 and to establish a sight so that clamps of a bracket have enveloped active faces of a slideway of weapon. Thus one of clamps should be snapped in one of cross-sectional grooves routing. Restrict nuts 8 and 10 brackets 9.

The rubber lenses cover is intended for protection of lenticles of a lens at haul and activity with a sight in daylight. The focusing of the eyepiece is made by rotation of a ring 1. The rubber eyepiece 13 serves for fixing of an eye concerning a magnifying glass and exception of hit in an eye of light from extraneous sources. The change of brightness of glow of an aiming reticle implements a handwheel 3.

Set-up on zero of a sight implements through gears of adjustments arranged under covers 11 and 12.

5. Set-up of sight

Establish battery in a sight and fix it on weapon according to the guidelines of point 4. Set-up on zero to make at temperature of exploitation of a sight in the following order:

- to establish weapon with a sight on the aiming machine tool. In a field of view of a sight there should not be bright light sources. At their presence or high intensity of illumination of the target a cover of a lens not remove;
- to establish the target on distance, with which one you will shoot on hunting;
- to switch-on a sight and to aim on center of the target on a mechanical sight;
- gyrating a ring of the eyepiece to achieve sharp vision of the purpose;
- if the center of the target does not coincide a laying mark, that, previously having removed covers 11 and 12, rotation of handwheels of adjustments on a vertical and horizon to achieve their adjustment. The turn of a handwheel of adjustment on three clicks enters the correction on 0-00,1 (1 sm on distance 100m);

- to shoot in the target 3-4 times;
- to determine an accuracy of hits and position of a midpoint of hit;
- at a straddling of a midpoint of hit with center of the target, rotation of handwheels of adjustments to mate it with an aiming reticle;
- to make monitoring fire.

The sight is customized on fire with selected distances.

6. Operation

Before actuation of a sight to be convinced, that the bright light sources (lanterns, head lamp of automobiles etc.) in a field of view miss. By activity in twilights and night to remove a protective cover. To switch-on the sight by the switch 5. At intensity of illumination is lower than 0,05 lxose to switch-on the IR-illuminator (position IR of the switch 5). By rotation of a ring 1 to achieve sharp vision of an aiming reticle. By rotation of a handwheel 3 to establish optimal brightness of glow of an aiming reticle. By moving of weapon with a sight to mate an aiming reticle with the target. Shoot.

After stoppage with a sight to establish the switch 5 in position OFF and to establish a protective cover on the lense.

It is forbidden:

- to actuate a sight in light time of day with an opened cover of a lens;
- to look through a sight at bright light sources;
- to look on the live IR- illuminator from spacing interval less than 0,5 m;
- at fire to look in a sight from spacing interval less than 50 mm;
- to store a sight with established batterys.

It is necessary to remember!

- Tag of discharge batterys is the decrease of brightness of the IR-illuminator and aiming reticle. On a frost the capacitance of batterys is notably reduced. Therefore it is recommended to have a padding batteries and to store it in heat.
- The unit of the IR- illuminator is the composite device sensing to mechanical loads. Shocks and dead loads more than 10 H (load created by freight is powerful 1 kg) ARE PROHIBITED, since can break regulation of the illuminator.

7. Maintenance

For maintenance of a failure-free operation of a sight it is necessary before each usage to make following operations:

- to inspect with the purpose of detection of mechanical damages and corrosion;
- to test mounting of a sight ;
- to furbish if necessary lenticles from fuffy of spots and mud through a flannel by wetted alcohol;
- to test a condition of baterys and contacts in a battery pod (oxidation and presence of salts are invalid);
- to test activity of a sight and IR- illuminator by tentative actuation.

In case of failure detection it is necessary to address to service center or to the vendor of a sight.

The disassembly of a sight is categorically prohibited!