

# UNIVERSAL SIGHT PU3,5×22, PU3,5×22-1

Service manual

AL3.812.263 RE

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**Because of continuous modernization of sights, their construction may have some changes, not indicated in the given manual.**

## **1 PURPOSE**

Universal sight PU3,5×22, PU3,5×22-1 (hereinafter referred to as the sight) is designed for mounting on hunting weapon with side or top seat and can be completed with suitable brackets. The sight may have a seat diameter of 25,4 or 26,5 mm. Width of the sight seat diameter is 45 mm. Thickness of the reticle strokes is 0,1 or 0,2 mm.

The sight has two handwheel with scales to enter the necessary elevation and windage corrections during the ranging fire and shooting.

The sight is designed to operate in an open air environment within a temperature range of -50° to + 50°C and relative humidity up to 93% at +25°C.

## 2 SPECIFICATIONS

Magnification, x	3,5
Field of view, deg	4,5 °
Exit pupil diameter, mm	6
Eye relief, mm	72
Eyepiece diopter adjustment, D	from -0,5 to -1
Seat diameter, mm	25,4 (1") or 26,5
Width of seat diameter, mm	45
Overall dimensions without bracket, mm	170×42×42
Weight without bracket, kg, not more	0,4

## 3 COMPOSITION

### Supplementary composition under customer request

Sight	1	Bracket for hunting weapon type "Saiga", "Tigr"
Napkin	1	Bracket for weapon type "Los"
Bag	1	Bracket for hunting weapon type "KO-44"
Service manual	1	Low bracket for hunting weapon type "KO-44"

## 4 INTENDED USE

The sight is mounted on a weapon with the help of a bracket. The bracket must be securely fastened onto the seat of the hunting weapon. The adjustment of sight on the weapon is carried out after zeroing in with bore sight (foresight and rear sight). To implement this operation the following is necessary:

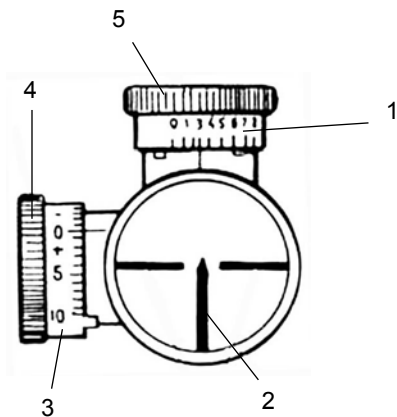
- perform 1–2 turns to untighten the screws of the bracket clamps;
- put the sight into the bracket till home, expose the reticle incline perpendicularly (in plumb);
- fully tighten the screws of the bracket clamps, at the same time the sight must not turn around in the bracket;
- fasten the bracket with the sight onto the weapon;
- set the upper handwheel 1 (figure 3) in the position “1”, the side handwheel 3 in the position “0”;
- aim the weapon by bore sight at a target at a distance of 100m from the muzzle;
- looking through the sight eyepiece, note the position of aiming mark;
- if the aiming mark coincides with the aiming point of the bore sight, the sight is adjusted;



Figure 1 – **General view of the sight PU 3,5×22**  
Tube diameter – 26,5 mm



Figure 2 – **General view of the sight PU 3,5x22-1**  
Tube diameter – 25,4 mm



1 - distance scale; 2 - aiming mark; 3 - scale of side corrections;  
4 - handwheel of side corrections; 5 - distance handwheel

Figure 3 – **Sight's field of view**



– otherwise, perform 1–2 turns to untighten the screws 1 (figures 1, 2) on the upper handwheel 5 (figure 3) and 2 (figures 1, 2) on the side handwheel 4 (figure 3), then coincide the reticle aiming mark with the aiming point of the bore sight by rotating of handwheels ( hold the scales in the initial position);

– carefully and fully tighten the handwheel screws 1, 2 (figures 1, 2), and check the coincidence of the reticle aiming mark with the aiming point of the bore sight again.

Repeat the adjustment if necessary.

When shooting, the adjustment of the upper handwheel of the sight (depending on the range and weapon type) must be defined experimentally.

Shifting of the reticle peak of the sight for one division of the upper handwheel 5 (figure 3) is 7 cm at 100 m, and for one division of the side handwheel 4 is 10 cm at 100 m.

## **5 MAINTENANCE AND STORAGE**

Protect the sight from physical damage.

Wipe the outer optical surfaces with clean soft fabric, remove oil spots and thin coat with cotton wool wet with alcohol.

Protect the optical details against scratches during storage and operation.

## **6 SAFETY MEASURES**

During the sight operation, insure the mounting is securely attached to the weapon.

## **7 ACCEPTANCE CERTIFICATE**

Universal sight PU 3,5x22, PU 3,5x22-1, serial number \_\_\_\_\_ meets the specifications and state standards and is fit for operation.

Date of issue \_\_\_\_\_

Signatures\_\_\_\_\_

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**Appendix A**  
(for information)

**Supplementary composition**



Figure A.1 – **Bracket for hunting weapon type “Saiga”, “Tigr”**

Tube diameter – 26,5 mm



Figure A.2 – **Bracket for hunting weapon type “KO-44”**

Tube diameter – 26,5 mm



Figure A.3 – **Low bracket for hunting weapon type “KO-44”**



Figure A.4 – **Bracket for weapon type “Los”**

Tube diameter – 25,4 mm

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