

Federal State Unitary Enterprise
Production Amalgamation
“Novosibirsk Instrument-Making Plant”



UPO-2-1
Riflescope

Service Manual

The design of the riflescope is a subject of continuous improvement and can slightly differ from the present manual.

GENERAL DESCRIPTION

The UPO-2-1 riflescope is designed for hunting weapon equipped with standard side mounting rail. Soft cover is provided for carrying.

The riflescope ensures more accuracy and grouping relative to iron sight. This increases the first-shot hit provability at high shooting range.

The riflescope features the transparent aiming mark that convenient for low-sized targets. In night and twilight illumination conditions the aiming mark shines with green light. The illumination of aiming mark requires no lamp and battery that ensures reliability and long lifetime.

There are elevation and windage adjustments for specific range zeroing.

Operating temperature range is from -30°C to $+30^{\circ}\text{C}$ at relative humidity up to 98%.

SPECIFICATIONS

| | |
|--|--------------|
| Magnification, x | 4 |
| Field of view, deg | 8 |
| Exit pupil diameter, mm | 6.5 |
| Eye relief, mm | 35 |
| Limiting resolution, arc. sec | 13 |
| Elevation and windage adjustment range, arc. min | 14.5 |
| Overall dimensions, mm | 203x80.5x178 |
| Weight, kg | 0.8 |

PACKAGE CONTENTS

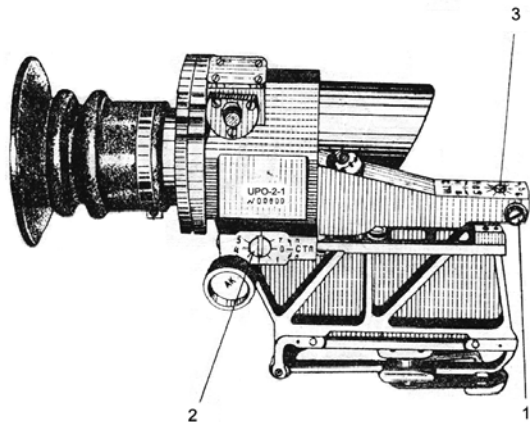
| | |
|--------------------|---|
| UPO-2-1 riflescope | 1 |
| Wrench-screwdriver | 1 |
| Bag | 1 |
| Soft cover | 1 |
| Box | 1 |
| Service manual | 1 |

MOUNT

Pull the eyeshield onto eyepiece.

Attach the riflescope to your weapon as the follows. Align the mount slot of the riflescope holder with the mount dovetail rail of the weapon.

Push the riflescope forward up to stop. Turn the lock lever forward up to the catch against holder. No wobble is admissible after locking.



ALIGNMENT

Aim the weapon with iron sight at an aiming point ranged by 100 m or other distance as you choose. Fasten the weapon in the position. Mount the UPO-2-1 riflescope on the weapon. Check out the alignment of riflescope relative to iron sight. In the case of misalignment, loosen the screw 1 by one or two turns with wrench-screwdriver and align the aiming mark of riflescope with aiming point of iron sight by means of screws 2 and 3.

Tighten the screw 1 again.

Fire four single shots ensuring careful and uniform aiming at aiming point. Determine accuracy and mean point of impact. Accuracy is acceptable if all four bullet holes are within a circle of 15 cm diameter.

For normal accuracy, deviation of mean point of impact from

aiming point must be within 5 cm in all directions. If it exceeds the specified limit, loosen the screw 1 by two turns and adjust the elevation screw 3 and windage screw 2 as the follows:

- if the mean point of impact is below aiming point, rotate the screw 3 to arrow "U";
- if the mean point of impact is above aiming point, rotate the screw 3 to arrow "D";
- if the mean point of impact is at the left of aiming point, rotate the screw 2 to arrow "R";
- if the mean point of impact is at the right of aiming point, rotate the screw 2 to arrow "L".

One division of screws 2, 3 corresponds to 10 cm displacement of impact point for 100 m range.

Tighten the screw 1 again.

SAFETY

Ensure reliable fastening of the riflescope on the weapon to avoid an injury in service.

Acceptance certificate

The UPO-2-1 Riflescope conforms to manufacturer's specifications and found fit to service.

Issue date _____

Quality inspector _____

WARRANTY

The Manufacturer warrants the Sight, under condition that it was properly used. The warranty period is 24 month from the date of sale but no more than 5 years from the date of issue.