

## PIONEER

### INSTRUCTION MANUAL

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#### 1. Safety Measures

- Prior to use, study the Instructional Manual carefully.
- Use this device only in the way as stipulated in this Instruction Manual.
- Never aim either at people, animals, or unchecked area.
- Keep to the general rules for safe gun manipulation when handling the gun.
- The laser pistol of Pioneer is an optoelectronic device, its disassembly is forbidden.
- Do not use this device for any other purposes or in other way than described therein.

#### 2. Description



1. radiating hole  
2. cocking lever

2. battery cover

#### 3. Designation

The laser pistol of Pioneer is designed to emit a laser beam after pushing the pistol trigger. The laser pistol of Pioneer can be used for education, trainings, and shooting competitions. The targets of APEOM are used for the firing with the laser pistol of Pioneer; the targets evaluate UIPM code then.

#### 4. Laser Pistol Preparation

Insert the batteries into the pistol (if they are not already there) as mentioned in the article 6. Prepare the target and you can start up the education, training, or shooting competition. Use the targets in compliance with their Instruction Manuals.

#### 5. Principles of Operation

Never aim either at people, animals, or unchecked area – when handling the gun, it is always necessary to keep to the general rules for safe gun manipulation.

Never look into the radiating hole, your sight could be damaged.

To put the laser pistol of Pioneer into operation, just push the cocking lever into the front position. After the lever is cocked, aim at the target and push the trigger. A short optic beam is emitted and detected by the target.

APEOM s.r.o.

## 6. Maintenance

Keep the laser pistol clean; wipe the dust off with a dry cloth. Do not use any detergents, solvents, or chemical preparations. Do not press the optics of the radiating hole with any objects. Place the pistol in such a way to prevent the blockage of the radiating hole emitter.

When changing the batteries, unscrew the screws on the cover /3/, and remove the cover. Put the new batteries into the battery area in the way as described in the picture – with the minus end first. Polarity of the batteries must be kept. Use the batteries of AAA 1.5 V. Do not use the batteries that were already used before. If you do not use the laser pistol for some time, take the batteries out.

Put the cover back, push it a little and rotate it at the same time so that the holes for screws on the cover are aligned. Screw the screw in.



## 7. Possible Defects and Their Elimination

The laser beam track is badly visible or it is not visible at all.

Change the batteries.

The laser beam track is visible in other places than aimed at.

Rectification is broken, call the service.

## 8. Ecology

Do not throw the batteries into the bin. Take them to an appropriate waste disposal site.

## 9. Technical Parameters

Parameter	Value
• laser class	CLASS 2 LASER PRODUCT
• laser type	semi-conductor
• wavelength ( $\lambda$ )	650 nm $\pm$ 5%
• divergence	<1,5 mrad
• lens output aperture	3 mm
• output (P)	$\leq$ 3,4 mW
• emission duration (T)	15.6 ms
• carrier frequency	40 kHz
• pulse ration	1:1
• numbers and lenghs of pulses	1*2.4+6*1.2+2*0.6
• operating temperature	+10°C to +30°C
• power supply	4.5 VDC (3xAAA)
• dimensions	280 x 145 x 36 mm
• weight	540 g

## 10. Specific Provisions

The laser pistol is supplied with a production label and stamping stickers. If damaged, the guarantee is over.

## 11. Plate

