

Full Laser Pistol MMLP ALP160 CA (Laser pistol MMPL & Emitter ALE160 CA)

Instruction manual





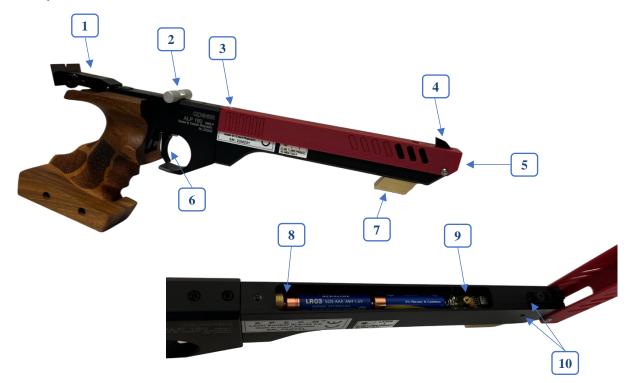
Safety Precautions

- Read this User Manual carefully before first use of the equipment.
- Use the equipment only as described in this manual.
- Do not use the equipment for other purposes than for which it is intended.
- Do not aim at people or animals or to an uncontrolled area.
- The emitter is an optoelectronic device; its disassembly is forbidden.
- Observe general rules for weapon handling while operating the weapon.
- Use the equipment only in dedicated areas bounded for shooting.
- Observe general rules for behaviour and handling a weapon on a shooting-range.
- After finishing shooting check if the weapon was not left cocked.
- Do not look into the emitting opening of the emitter.
- It is forbidden to remove from the body emitter laser diode and electronics.

Purpose

- Laser Emitter is designed for performing sport and training shooting at electronic targets.
- Laser Emitter is designed for imitation of a bullet by emitting an optical ray during the shot.
- Laser Emitter is mounted to a body frame of a gun.

Description



- 1) Apeom sights
- 2) Cocking lever handle
- 3) Lid screw
- 4) Front sight
- 5) Emitting aperture opening
- 6) Trigger
- 7) Weight (may differ)
- 8) (+) Terminal 2x AAA Batteries
- 9) Laser module LME 160
- 10) Laser rectification screws

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Preparation for Operation

Unscrew the lid screw /3/ and open the lid. Place 2 AAA batteries into the plastic battery holder. Watch out for the correct polarity of the batteries. A sticker inside the barel will tell you where the positive polarity (+) is. Close the lid and gently screw in the lid screw /3/.

Rules of Operation

Moving the cocking lever up will load the pistol. Pulling the trigger lever activates the trigger mechanism which then activates the laser.

Additional weights can be added under the emitter into the special rail.

Never aim at persons, animals or to an uncontrolled area – it is necessary to observe general rules for weapon handling and general rules for behaviour on a shooting-range while using the equipment.

When using the device, the user is obliged to observe the current rules of UIPM.

In case that Laser Emitter will not be used for a long time (more than 1 month), inspect batteries and remove them if needed. Always insert new batteries to the emitter. Only use alkaline batteries of the following types: 1.5V AAA.

Batteries

Do not charge the batteries. This would pose a risk of leaking electrolyte or explosion.

Use the batteries only in intended electronic devices. In case of using an unsuitable battery, the equipment may be damaged or destroyed.

Keep the batteries out of humid environment; this would pose a risk of leaking electrolyte due to corrosion of the case. The electrolyte is a strong caustic that causes alkali burn in contact with skin. Do not use damaged batteries.

Keep the batteries out of children.

Observe correct polarity (+ -) of the batteries, do not short-circuit.

Do not throw batteries into fire, do not solder, do not disassemble.

Do not mix batteries of different type or age, the batteries discharge faster.

Store the batteries in a dry place under temperatures between 5 - 30 °C.

Take the batteries to a collection centre for hazardous waste or collection points.

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Maintenance

Keep the emitter clean. Do not use any cleaning agents, solvents and chemicals. Do not push against the emitting opening optics with any objects. Store the emitter so that clogging of the emitting opening is prevented.

After every shooting and before every shooting visually check intactness of the emitter and adapter, check batteries for corrosion. Remove the batteries if there are marks of corrosion on them. Let the emitter then dry up before storing the emitter in a weapon case. Also let the emitter to dry up in case that you used it in humid or rainy conditions.

Laser rectification

When you want to rectificate laser beam without moving your sights on the pistol, you can do that just by moving the laser module. You do that by adjusting the /10/ screws. There are 4 screws around the end of the barrel.

!! You first have to loosen the screw opposite the one you want to tighten !!

<u>For example:</u> You want to move the laser to the right. You first loosen just a little bit the right side adjusting screw /10/, then you tighten the left adjusting screw /10/. Now you check if it helped – if the laser has moved enough to the right or not. If not, repeat this process.

Adjustment of the trigger mechanism

Striking adjustment:

The trigger mechanism is set by the factory for the two-stage weight. The engagement of the trigger lever can be adjusted by the screw /4/. When unscrewing the engagement of the trigger level will be increased. The first stage weight can be adjusted by the screw /1/. When screwing it in the first stage weight will be increased. !! We do not recommend changing the engagement of the trigger lever to other than factory setting (especially

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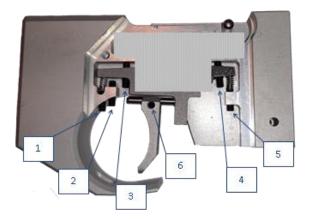
Any adjustments of the pistol should be done by the professional armourer or by a competent workshop.

Trigger play, pull and position adjustment:

The trigger play can be adjusted by the screw /3/. When screwing it in the trigger play will be reduced. Screw /2/ is used to adjust the play of the trigger after firing (we do not recommend changing). When screwing it in the trigger play will be reduced.

!! If the screw /2/ is screwed way too much in, it can prevent the pistol from firing !!

The second stage trigger weight can be adjusted by the screw /5/. The Position of the trigger lever can be changed after loosening the screw /6/ on both sides.



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Potential Defects and Troubleshooting

The emitter does not emit laser beam while shooting.

Check whether the batteries are inserted, or replace the batteries, or check if the emitting opening is not clogged, or check if the 2 screws on top of the body of the pistol are tight enough.

CAUTION – Using different checks, settings or operating procedures than the ones mentioned above may lead to dangerous radiation exposure.

Environment Protection

Do not throw the batteries to a waste bin. Take the batteries to collection points to be properly recycled.





Specifications

Name of parameter Value

- Laser type semi-conductor

Laser module type LME 160

Laser class CLASS 1 LASER PRODUCT (in accordance with EN

60825-1:2014) 650 nm ± 5%

Wavelength (λ) 650 nm ± 5% \times Diameter laser dot \times 6 mm

Time between trigger release and the laser

starts emitting the radiation 6 ms

Lens output aperture diameter (according to the

manufacturer) 3 mm

- Output (P) $2,3 \le P \le 3,4 \text{ mW}$ - Ingress protection IP52

- UIPM code 2015 – 15.6

- Emission duration 15.6 ms - Carrier frequency 40 kHz

Operating temperature +10°C to +50°C

Number of optical shots per set of batteries min. 5 000 000 / at 20°C

Emitter power supply 3 V DC (2x1.5 V AAA)

- Upgrades of code / software Yes, with special equipment by Apeom

Weight – with standard weights and grip "L" 0,770 kg

- Dimensions with emitter 390x135x50 mm

Special Provisions

The emitter is equipped with a warning-information plate, serial number plate and sealing stickers. Warranty for the equipment is void in case of damage to the plate or sealing stickers.

Label

The warning-information label is located on the side of the emitter body.



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