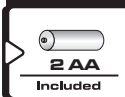
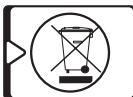
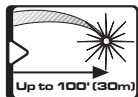
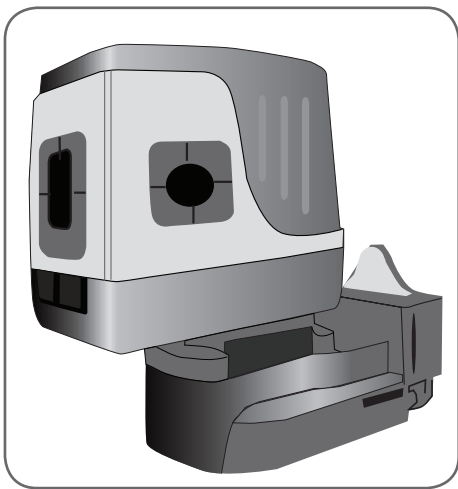




# 896 Prolaser<sup>®</sup> 5-DOT Self-Leveling Laser Pointer

## User Manual



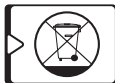


Thank you for purchasing the Prolaser® 896 5-DOT Self-Leveling Laser Pointer. You are now the owner of one of our innovative range of state of the art tools. These tools incorporate new laser technology, enabling the professional user and the serious D.I.Y enthusiast to achieve accurate results and reduce valuable work time.

## Applications

The Prolaser® 896 5-DOT laser pointer can be used for:

- Wall stud layout and partition installation
- Electrical outlet and switch layout
- Framing rooms, doors and windows
- Finish carpentry
- Transferring points
- Vertical and horizontal alignments



## Note

**Keep this user manual in a safe place for future reference.**

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## Features

- Five highly visible laser dots: Plumb up & down, 3 level dots at 90° angles
- Small cross projected at each laser dot
- Self leveling range  $\pm 4^\circ$
- Tough rubber overlay
- Quick & easy one-button operation
- Laser range: up to 100' (30m) with target
- Includes: Magnetic multi-functional base, laser target, soft carry case

## Safety Instructions

### WARNING

**The Prolaser® 896 is a Class II Laser. It is manufactured to comply with IEC international rules of safety. Read this user guide thoroughly before using your Prolaser® Laser Pointer. Always operate the laser according to the procedures and warnings in this manual.**



Laser Radiation: Serious eye injury could be caused by looking directly into the beam or by projecting the beam into the eyes of others.

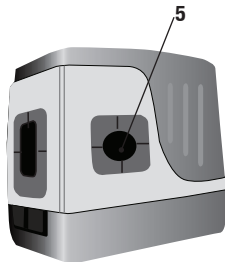
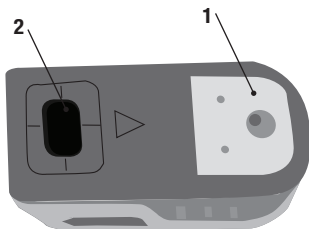
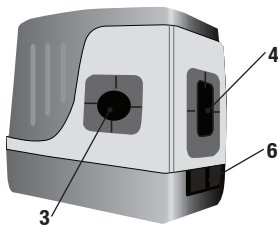
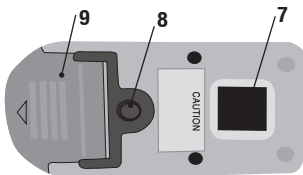
- The use of protective eyewear is recommended.
- Do not look into a laser beam using magnifying optical equipment, such as binoculars or telescope, as this will increase the level of eye injury.
- Always position the laser beam so that it does not cause anyone to directly stare into it.
- Do not operate the laser level near children or let children operate the laser level.



## Overview

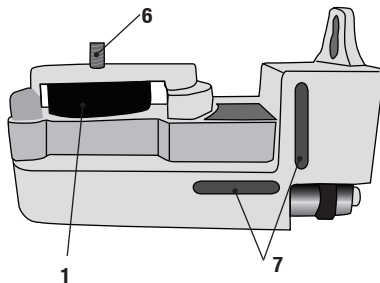
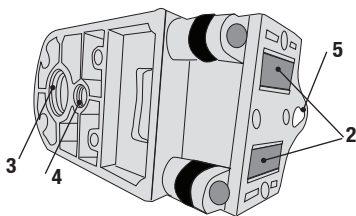
### Laser Unit

1. Keypad
2. Laser output window (plumb up)
3. Laser output window (right)
4. Laser output window (front)
5. Laser output window (left)
6. Pendulum locking knob
7. Laser output window (plumb down)
8. ¼" tripod thread
9. Battery cover



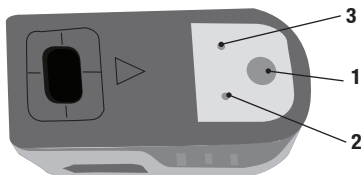
## Multifunctional base

1. Fine adjustment knobs
2. Rare-earth magnets
3. 5/8" tripod thread
4. 1/4" tripod thread
5. Mount
6. 1/4" screw
7. Grooves for strap



## Keypad

1. ON/OFF Key
2. Power Indicator
3. Laser Indicator



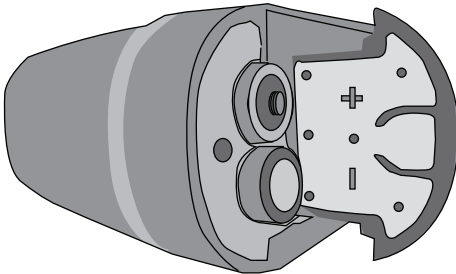


## Battery Installation/Replacement

1. Open the battery cover.
2. Insert 2 new AA batteries of the same brand (regular or good quality rechargeable) according to polarity marked inside the battery compartment.
3. Replace the battery cover.

### Note

**The Power Indicator on the keypad will flash when battery is low.**





## Operating Instructions

To get the most out of your Prolaser® 896 5-DOT Laser Pointer, please adhere carefully to the following instructions.

### Note

**Avoid setting up the laser level near heavy machinery or sources of vibration that may adversely affect the leveling of the laser.**

1. Open the Locking Knob. The Power Indicator on the keypad will light red.
2. Press the ON/OFF key on the keypad. The Laser Indicator will turn green.
3. If the unit is out of leveling range ( $\pm 4^\circ$ ), the Laser Indicator and the laser beams will blink. Adjust the unit until blinking ceases.



## Care and Maintenance

### Preventative Maintenance

- Store in a clean dry place, between 5°F – 131°F (-15°C – 55°C)
- Before moving or transporting the unit, ensure that it is turned off and the Pendulum Locking Knob is locked.
- If the laser unit is wet, dry off with a dry cloth. Do not seal the laser in the carrying case until completely dry.
- Do not attempt to dry the laser unit with fire or with an electric dryer.
- Do not drop the laser unit, avoid rough treatment, and avoid constant vibration.
- Periodically check the calibration of the laser unit.
- Clean with a soft cloth, slightly dampened with a soap and water solution. Do not use harsh chemicals, cleaning solvents or strong detergents.
- Keep the laser apertures clean by wiping them gently with a soft lint-free cloth.
- Remove batteries from the laser unit during lengthy periods of non-use, and store in carrying case.
- Ensure that the laser unit is turned off before removing batteries.

### Repairs

- See the Warranty section at the end of this manual.
- Do not take the Prolaser® 896 5-DOT Laser Pointer apart or permit any unqualified person to take the laser unit apart. Unauthorized servicing may cause bodily injury, irreparably damage the laser unit, and invalidate the warranty.

## Field Calibration Test

The laser unit leaves the factory fully calibrated. Kapro recommends that the laser pointer is checked regularly, and after the unit has been dropped or mishandled.

### Checking accuracy – Plumb

1. Press the ON/OFF key on the keypad.
2. Place the unit on a tripod approximately 1m above the floor and 3m from the ceiling.
3. Mark the Plumb Up and Plumb Down points on the ceiling and floor
4. Rotate the unit 180° and align the Plumb Down point with the mark on the floor.
5. Mark the Plumb Up point on the ceiling.
6. Measure the distance between the two marks on the ceiling. If the distance is less than or equal to 3mm, then the unit is calibrated.

### Checking accuracy – Level

1. Press the ON/OFF key on the keypad.
2. Set up the unit between two walls at a distance of about 2.5m from each wall.
3. Make a point on one of the walls (A1).
4. Rotate the unit 180°, and mark a point on the opposite wall (A2).
5. Move the unit to a distance of about 0.5m away from the first wall, rotate to face the first wall and mark a second point (B1).
6. Rotate the unit 180, and mark a second point on the opposite wall (B2).
7. Calculate  $(A1-B1) - (A2-B2)$ . If the difference is less than or equal to 3mm, then the unit is calibrated.



### Checking square (Level to square beam 90° calibration)

1. Find a room at least 5 m long. Mark a point (A1) on the floor at one end of the room.
2. Set up the laser so that its down beam is over point A1. Make sure the level beam points toward the far end of the room.
3. Mark a point (A2) on the floor at the center of the room using a target to transfer the level beam location to the floor.
4. Mark a point (A3) on the far wall or transfer the level beam location to the floor.
5. Move the unit to point A2 and align the level beam to point A3 again.
6. Mark the location of the square beam (A4) on the floor.
7. **Note:** To ensure accuracy, the distances from A1 to A2, A2 to A3, and A2 to A4 should be equal.
8. Turn the unit 90° so that the level beam aligns with point A4.
9. Mark the location of the square beam (A5) on the floor as close as possible to point A1.
10. Measure the distance between points A1 and A5. If the distance is less than or equal to 3mm, then the unit is calibrated.

## Specifications

Product	Prolaser® 896 5-DOT Self-Leveling Laser Pointer
Laser beam output pattern	Five dots: Plumb up, plumb down, 3 level dots at 90° angles (front, right, left)
Accuracy	Level: 4mm/10m Square: 4.5mm/10mm Plumb up: 1.5mm/3m Plumb down: 1.5mm/2m
Self Leveling Range	4°±0.5°
Recommended Working Range	up to 100' (30m) with laser target (included)
Effective Working Temperature	14°F - 113°F (-10°C – 40°C)
Storage Temperature	5°F – 131°F (-15°C – 55°C)
Power Supply	2 x “AA” batteries
Weight	430 g with batteries
Dimensions (L x W x H)	4.2" x 2" x 3.2" 105mm x 50mm x 80mm
Laser Classification	Class II, >1mv
Laser Wavelength	635 nm

**CE, RoHs, WEEE, REACH compliant**



## Warranty

**This product is covered by a two-year limited warranty against defects in materials and workmanship. It does not cover products that are used improperly, altered, or repaired.**

**In the event of a problem with the laser level you have purchased, please return the product to the place of purchase with proof of purchase.**

.Kapro Industries Ltd 2011©



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