

PLS SLD

Laser Detector



For use with your
PLS pulsed laser alignment tool.

**PACIFIC LASER
SYSTEMS**

GENERAL DESCRIPTION

IMPORTANT: YOUR PLS SLD DETECTOR IS DESIGNED FOR USE WITH YOUR PLS PULSED LASER. THE PLS SLD IS UNIQUE TO PLS LASER TOOLS. IT CANNOT BE USED WITH A ROTARY LASER.

Please read the operating manual for your PLS pulsed tool. They must be in the “exterior” mode to transmit to your PLS SLD laser detector.

Liquid Crystal display (LCD’s) on the front and rear are included for easy visual indications of grade information and detector settings. A beeper also emits an adjustable audible tone that indicates on-grade, high or low. Accuracy levels are user selectable to meet various job requirements.

The detector has been specifically designed for use in construction environments. Impact resistant housings, recessed windows, water resistant design, durable battery contacts, and an audible beeper are incorporated into every detector.

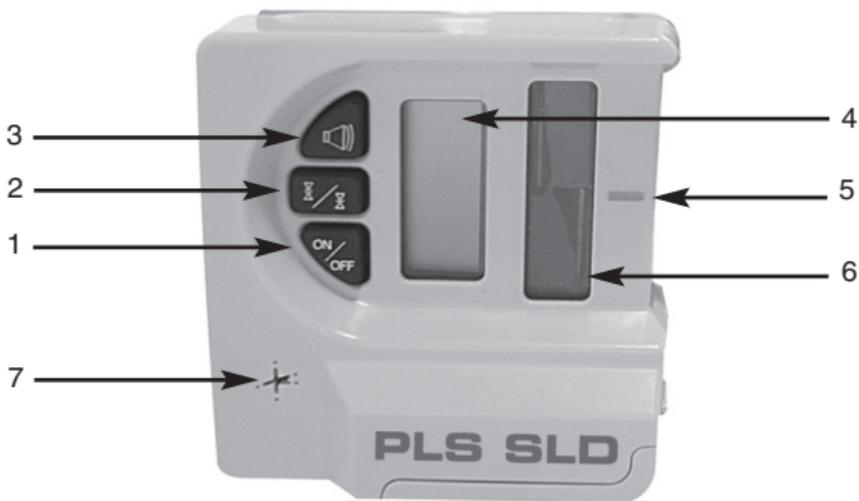
A general purpose clamp is included and **designed to capture horizontal or vertical reference** using various grade rods and staffs.

NOTE: For maximum detector range, make sure the **laser transmitter** has fresh batteries.

Extreme temperatures may affect the maximum detection range.

PLS SLD DETECTOR

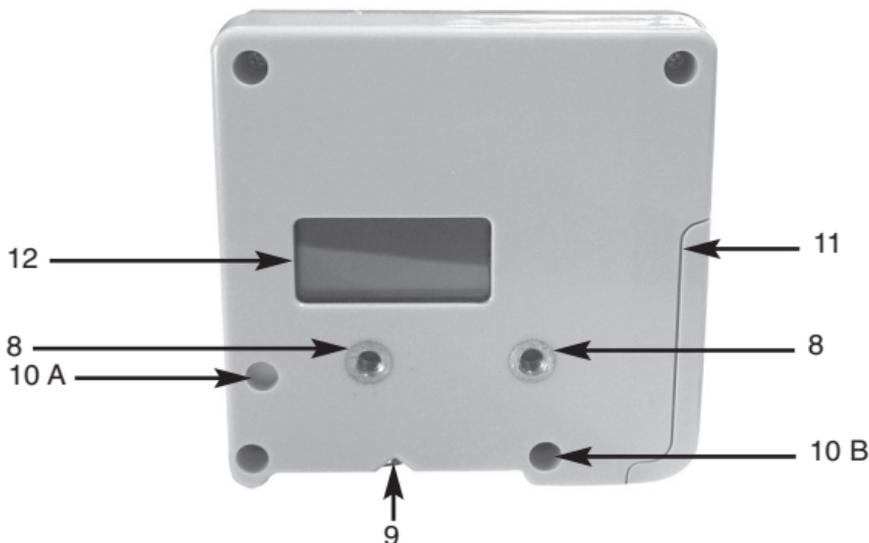
Operation - Front View



- 1. Power Switch** - press once to turn ON. Unit beeps and LCD's turn on to confirm power is on. Press again to turn off. Unit automatically turns off after five minutes of non-use.
- 2. Accuracy Switch** - select detection accuracy. Pressing switch cycles through accuracy options.
- 3. Beeper Switch** - pressing switch cycles OFF, and ON.
- 4. Liquid Crystal Display (LCD)** - LCD indicates the detectors position relative to the laser beams and other detector settings.
- 5. On-Grade Mark** - aligned with the laser on-grade reading and vertical marking notch. Mark located close to the photocells for error free marking.
- 6. Laser Reception Window** - photocells are located behind the window which detect the laser signal. Window must be directed toward laser.
- 7. Beeper Output** - 3 distinct audible signals.
 - Fast signal: Detector too Low.
 - Solid signal: On-Grade
 - Slow signal: Detector too High

PLS SLD DETECTOR

Operation - Back View



8. Captive Screw Thread - detector thread insert accepts the rod clamp screw to secure detector to the clamp.

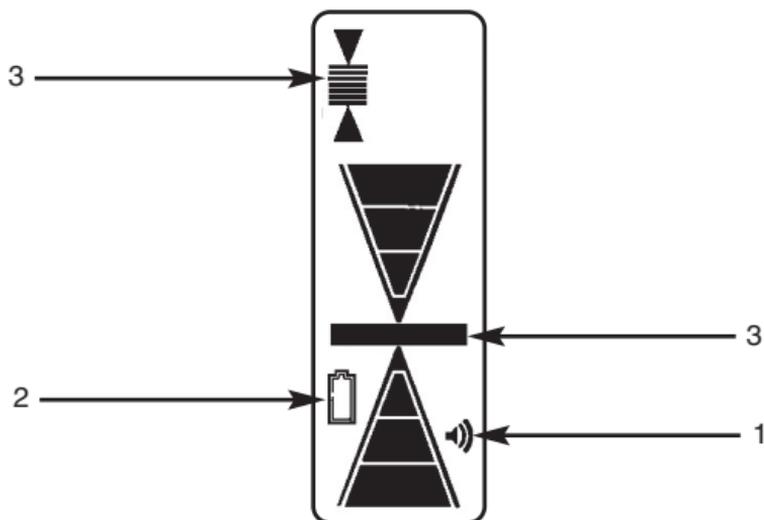
9. Offset Notch - used for transferring reference marks, 2" 3/32 from top of detector.

10A & 10B. Clamp Guide - 2 dimples help align rod clamp.
10A- Vertical line reference. 10B- Horizontal line reference.

11. Battery Door Latch - depress latch to open and install or replace batteries. Insert batteries noting plus (+) and minus (-) terminal diagram on the detector housing. Compartment houses (1) 9 Volt battery. Care- Do not submerge PLS SLD in water.

12. Rear LCD - functions the same as the front LCD.

LIQUID CRYSTAL DISPLAY



1. Beeper Volume Indicator - All symbols are on when loud. No symbols indicates beeper is off.



2. Low Battery Warning



Full-

Batteries OK



Half-

Initial Warning



Empty

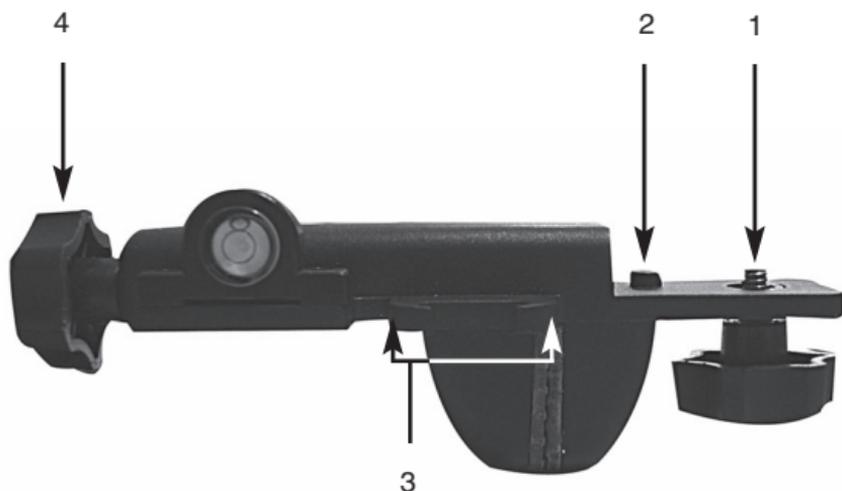
3. Detection Accuracy Indicator:

Fine
.75mm



medium
1.75mm

ROD CLAMP



- 1. Captive Rod Clamp Screw**- attaches to the back of detector.
- 2. Alignment Point** - secures and aligns rod clamp to detector in either horizontal or vertical position.
- 3. Reference Indicator** - points are aligned with the detector on-grade for grade rod readings.
- 4. Clamp Screw Knob** - secures clamp to rods and staffs by moving the traveling jaw.

SPECIFICATIONS

Working Distance: From 100 feet
to 250 feet

Detection Height: 2.0 (50mm)

Accuracy: Fine: .75mm
Medium: 1.75mm

Power Supply: 1 x 9 Volt battery

Battery Life: 30 hours

Weight 4.8 oz. without clamp
8.0 oz. with clamp

Dimensions: 3.25" x 3.25" x 1.25"
(163 x 74 x 30 mm) without clamp

Operating Temp: -4°F to + 140°F (-20°C +60°C)

Storage Temp: -40°F to + 158°F (-40°C +70°C)

EC Declaration of Conformity

PLS hereby declares that the equipment
specified above conforms to EC Directive(s).



MAINTENANCE AND SAFETY

Detector Cleaning: Do not wipe or dust dirt off the detector reception window or display windows with a dry or other abrasive material as scratching could occur, reducing visibility through these windows. A soft cloth and mild soap and water are effective. The unit may NOT be submerged under water or sprayed with a low pressure hose. PLS SLD is not water proof and warranty does not cover water damage. Do not use any other fluids other than water as they may attack polymer components.

Transportation: Use the original carton or your PLS laser instrument case to transport the detector.

Storage: If the detector will not be used for a month or more, it is recommended to remove the battery.

Batteries: It is recommended to use only high quality alkaline batteries.

Intended Uses of Detector: The PLS SLD laser detector is designed and suitable only for detecting a laser beam from PLS pulsed lasers.

Prohibited Uses:

- Operation without instructions.
- Operation other than the intended uses.
- Opening the detector, except the battery compartment.
- Modification or conversion of the detector.

Precautions:

- The person in charge of the detector must understand the instructions in this manual and ensure other users do also.
- Periodically carry out test measurements, particularly after the detector has been subjected to abnormal use and before and after important measurements.

WARRANTY

PLS Pacific Laser Systems PLS SLD laser detector and clamp are warranted to be free of defects in material and workmanship for a period of one year. This warranty period is twelve months from the date the products is delivered from the dealer to the purchaser or is put into service by a dealer as a demonstration unit or rental unit. In addition to the basic warranty above, PLS Pacific Laser Systems may choose to repair or replace, at its discretion, any PLS SLD detector, in the event of failure for any reason, during the warranty period.

Any evidence of misuse, alteration, or an attempt to repair products by unauthorized personnel, or use of parts other than those provided by PLS Pacific Laser Systems automatically voids the warranty. Competitor purchased and tested units are excluded from this warranty.

The user of the product is expected to follow all operating, maintenance and care instructions.

PLS Pacific Laser Systems' liability under this warranty is limited to repairing or replacing any product returned to its factory for that purpose. The foregoing states the entire liability of PLS Pacific Laser Systems regarding the purchase for any consequential loss or damage of any kind.

This Warranty is in lieu of all other warranties, expressed or implied, and constitutes all of PLS Pacific Laser Systems' liability with respect to merchandise sold by it.



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The Professional Standard

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