

PLS 480



Shown with optional universal base tripod adapter

PACIFIC LASER SYSTEMS

The Professional Standard

FEATURES

- ON/OFF MENU SWITCH
- BATTERY DOOR
- 1/4 - 20 INSERT IN BASE OF EACH UNIT

- POUCH

- FLOOR TARGET

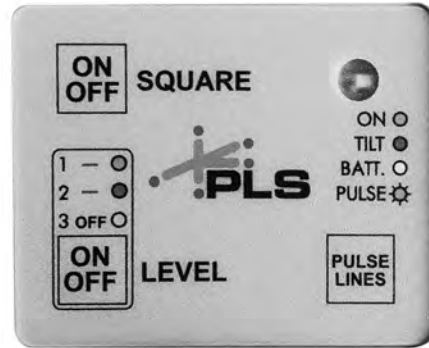
- STANDARD FLOOR BASE

- UNIVERSAL ADAPTER OPTIONAL

- PLS SLD LASER DETECTOR OPTIONAL



MENU SWITCH



ON/OFF / SQUARE LINES AND DOWN POINT
ON/OFF / LEVEL LINES

FIRST PRESS: SELF LEVELING MODE
SECOND PRESS: OVER RIDE SELF LEVELING MODE

THIRD PRESS: OFF

PULSE: OUTDOOR MODE TO USE WITH SLD DETECTOR - SQUARE AND LEVEL

GREEN LIGHT: ON
RED LIGHT: EXCEEDS TILT
AMBER LIGHT: BATTERY LOW
SOLID LIGHT: INTERIOR
BLINKING LIGHT: EXTERIOR

UNIVERSAL BASE-TRIPOD ADAPTER

The universal tripod adapter is included with the PLS 480 SYSTEM. The adapter has two components. 1) Floor and Batter Board Base and 2) Tripod - Fine Tune Base. The two components can be used separately or together depending on the job site application. When using your PLS480 on the floor or concrete slab, attach the PLS480 to the combined adapter (top and bottom components together) by inserting its 1/4 - 20 bolt into the 1/4 - 20 insert on bottom of the PLS480.

The reversible front foot can be turned around by loosening the screw-bolt and rotating to allow a straight edge against bottom track. The fine tune adjustment knob allows the PLS480 (or other PLS laser) vertical lines to move incrementally right or left.

The top component also swivels right and left for maximum utility of the laser.



- FINE TUNING KNOB
- TWIST OFF/ON BASE
- REVERSIBLE FOOT

UNIVERSAL BASE-TRIPOD ADAPTER



When using your PLS480 on a tripod secure the top component of the adapter to the tripod stud. Secure the PLS480 to the adapter and position the down point of the laser to point through the tripod handle or cantilever the tool so the down point can be seen between the tripod legs. You can now adjust the laser for square layout using the down point as your spring point and capturing the square laser lines with your SLD Detector.

UNIVERSAL BASE-TRIPOD ADAPTER



When using your PLS480 on batter board attach the PLS480 to the combined adapter (top and bottom components) and place the PLS480 and adapter on to the batter board. Secure the PLS480 to the batter board with the threaded clamp on back of the adapter. The down beam of the PLS480 should project closely in front of the batter board. Use the adapter adjustable knobs to turn the square beams of the PLS480 (or other PLS laser) right or left to meet the target or SLD Detector.

Please review the PLS-SLD Laser Detector operating manual for use with PLS 480 for exterior application.

CHECK PLUMB

Place the PLS480 on the standard floor base and position the PLS480 so that the down point is visible on the floor. Mark the down point position and without moving the laser also mark the intersecting point at which the two vertical lines meet on the ceiling.

Turn the laser 180 degrees and place the down point on the original mark on the floor. The intersecting point on the ceiling should match the original ceiling mark. If there is a difference between the original ceiling mark and second mark, the error of the plumb beam is half that difference.



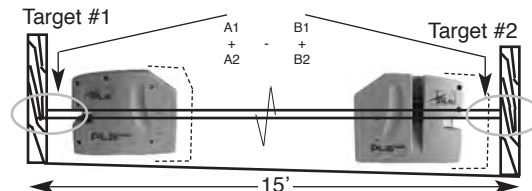
CHECK LEVEL

TO CHECK LEVEL:
Choose two interior walls approximately 15'-0" apart (see Fig. 1). You can use 2 x 4s for targets.

Turn on the PLS480 to Level setting #1 (level). With the PLS480 six inches away from and facing target #1, carefully mark the center of the line. Label this mark A1. Swivel the laser 180 degrees and mark the center of the line on target #2. Label this mark B1.

Move the PLS480 six inches away from and facing target #2. Carefully mark the center of the line. Label this mark B2. Swivel the laser 180 degrees and mark the center of the line on target #1. Label this mark A2.

You now have two centers of elevation at each target. Carefully measure the distance between centers of each set of marks. If there is a difference, subtract one measurement from the other. This calibration method magnifies any error by a factor of two. Therefore divide any difference by two to find the true error. Your PLS480 should have an error of no greater than 1/8in. within 60ft.



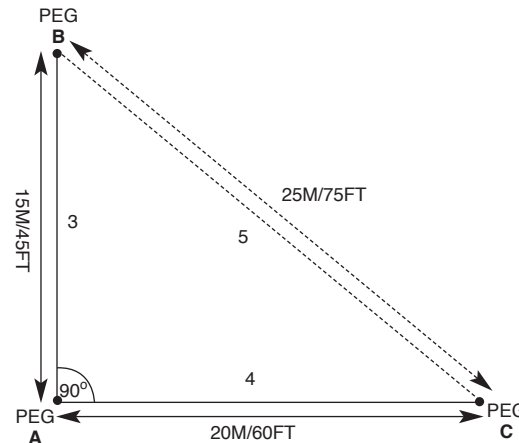
CHECK SQUARE

CHECKING THE PLS480 ON THE JOB SITE USING PYTHAGORAS 3-4-5 TRIANGLE:
Set up over the center of PEG (A) using the plumb down laser dot.

Using one of the 90 degree beams put PEG (B) in the ground at an exact distance of 15M/45 FT from PEG (A).

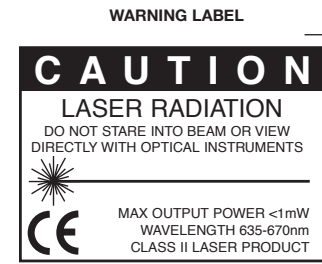
Using the other 90 degree beam, put PEG (C) in the ground at an exact distance of 20M/60 FT from PEG (A).

Now measure with a tape diagonally from PEG (B) to PEG (C). The distance should be 25M/75FT.

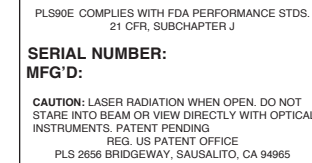


SAFETY LABELING

CAUTION: USE OF CONTROLS, ADJUSTMENTS OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.



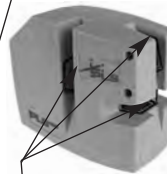
ID# CERTIFICATION LABEL



PLS480 complies with US FDA standards, 21 CFR, Subchapter J.

These labels are attached to every PLS laser. These are not to be removed or defaced.

PLS • 2550 KERNER BLVD., SAN RAFAEL, CA 94901
800 601 4500



APERTURE LABEL

AVOID EXPOSURE LASER RADIATION EMITTED FROM THIS APERTURE



SPECIFICATIONS

Light source:	Semiconductor laser diode 635-670 nm, visible
Working range:	+/- 200 feet (outdoor w/detector)
Accuracy:	
Square and Level	+/-1/8" @ 60 Feet (3mm@18 meters)
Plumb Down	+/-1/8" @ 20 Feet (3mm@ 6 meters)
Leveling:	Automatic
Leveling range:	+/- 6°
Power supply:	3AA batteries alkaline
Operating time:	+25 hours continuous use
Operating temp:	0° F to 122° F (-18° C to 50° C)
Storage temp:	-40 F to 158° F (-40° C to 70° C)
Indicator:	Green light: ON Red light: EXCEEDS TILT/ Amber light: BATTERY LOW Flashing: pulse beam- exterior
Environment:	Water resistant; not submersible
Dimensions:	5.6X4.6X2.9 inches
Weight:	1.25 lbs. (including batteries)

We recommend that you check your PLS480 periodically in order to assure its accuracy.

WARRANTY

This product is warranted by PLS • Pacific Laser Systems to the original purchaser to be free from defects in material and workmanship under normal use for a period of three years (USA only) from the date of purchase. During the warranty period, and upon proof of purchase, the product will be repaired or replaced (with the same or similar model at our option), without charge for either parts or labor, through PLS. The purchaser shall bear all shipping, packing and insurance costs. Upon completion of the repair or replacement, the unit will be returned to the customer, freight prepaid. The warranty will not apply to this product if it has been misused, abused or altered. Without limiting the foregoing, battery leakage, dents or gouges to the plastic housing, broken optic windows, damage to the switch/LED membrane are presumed to result from misuse or abuse. Tampering with or removal of the caution or certification labels voids this warranty.

Neither this warranty nor any other warranty, express or implied, including implied warranties of merchantability, shall extend beyond the warranty period. No responsibility is assumed for any incidental or consequential damages. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

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