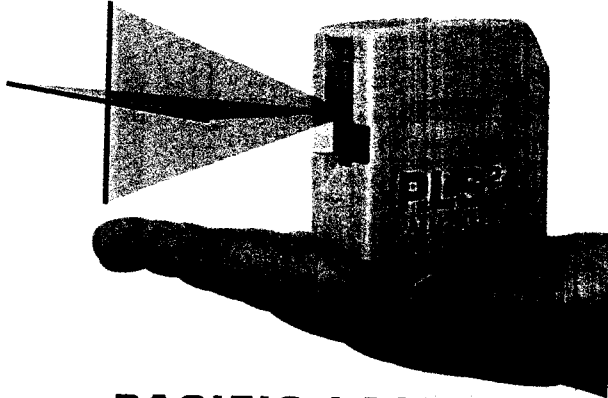


**PLS OPERATING MANUAL**

**PLS2 Palm Laser®  
PLS2E Palm Laser®**

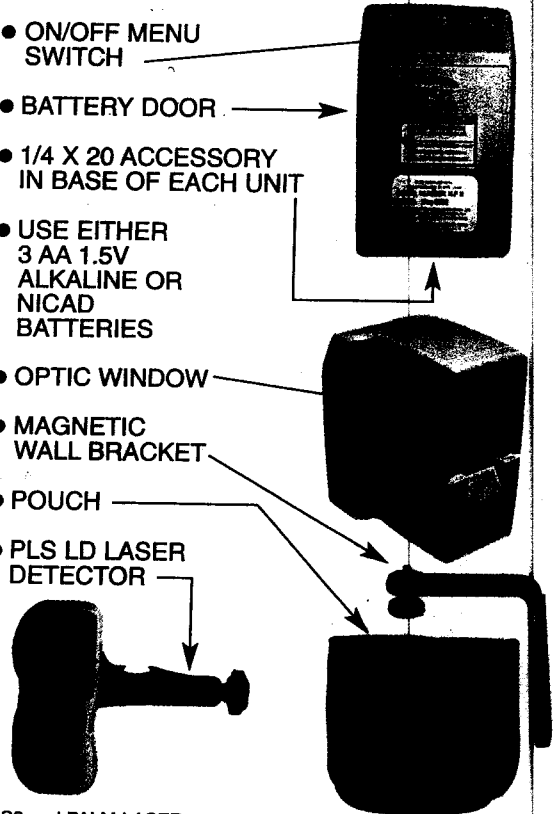


**PACIFIC LASER SYSTEMS**

The Professional Standard

**FEATURES**

- ON/OFF MENU SWITCH
- BATTERY DOOR
- 1/4 X 20 ACCESSORY IN BASE OF EACH UNIT
- USE EITHER 3 AA 1.5V ALKALINE OR NICAD BATTERIES
- OPTIC WINDOW
- MAGNETIC WALL BRACKET
- POUCH
- PLS LD LASER DETECTOR



PLS2 and PALM LASER are registered trademarks of PLS • PACIFIC LASER SYSTEMS  
PLS2 utilizes Patented Technology US Patent 6763595

**CHECK LEVEL**

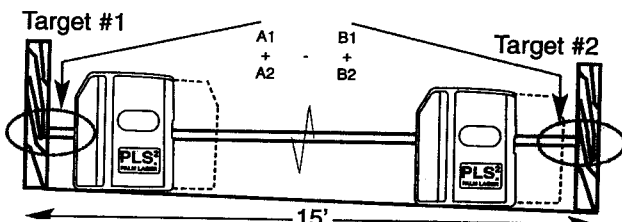
We recommend that you check your PLS2 periodically in order to assure its accuracy.

**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 PLS2 to setting #1 (level). With the PLS2 six inches away from and facing target #1, carefully mark the center of the line. Label this mark A1. Swivel the laser 180° and mark the center of the line on target #2. Label this mark B1.

Move the PLS2 six inches away from and facing target #2. Carefully mark the center of the line. Label this mark B2. Swivel the laser 180° and mark the center of the line on target #1. Label this mark A2.

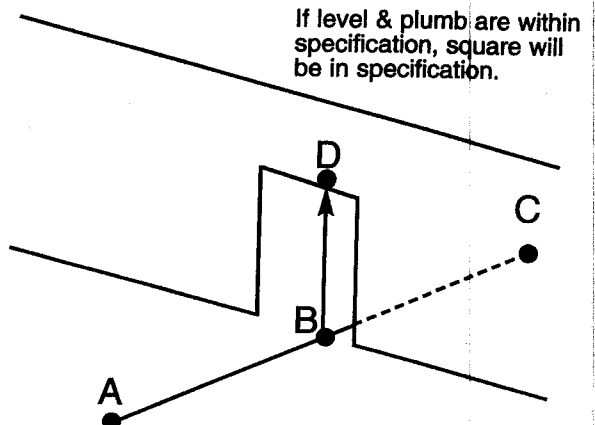
You now have two centers of elevation at each target. Carefully measure the distance between centers of each set of marks. If there is a difference, subtract one measurement from the other. This calibration method magnifies any error by a factor of two. Therefore divide any difference by two to find the true error. Your PLS2/2E should have an error of no greater than 1/8in. within 30ft.



**CHECK PLUMB**

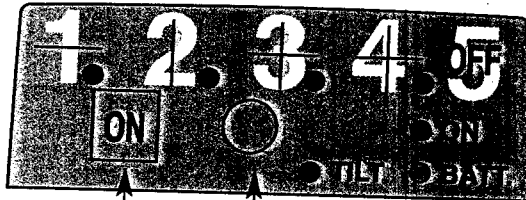
Choose a door jamb with 8'-0" clear on each side of the door. Turn on your PLS2 laser to setting #2 (plumb). With your laser at point A, make two marks on the floor: the first at 8'-0" from point A centered on door header above (mark this point B), the second 16'-0" from point A (mark this point C). Without moving the laser, make a third mark on the door header (mark this point D).

Move the laser to point C, **exactly** align the beam with point B, and notice where the beam falls at point D. If it is within a "light" 1/16" of point D, the laser is in calibration.

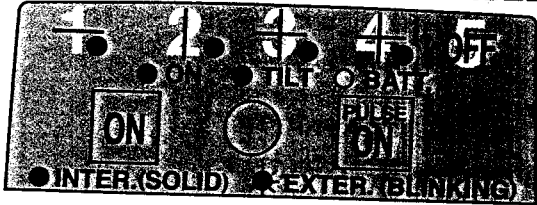


If level & plumb are within specification, square will be in specification.

## MENU SWITCH



ON/OFF BUTTON LED



**PLS2**

**PLS2E**

- PRESS "ON" TO SCROLL THROUGH THE MENU. THE NUMBERS INDICATE MENU FUNCTIONS:
1. LEVEL/HORIZONTAL BEAM / GREEN LED
  2. PLUMB/VERTICAL BEAM / GREEN LED
  3. BOTH BEAMS - SELF-LEVELING/ GREEN LED
  4. BOTH BEAMS - FIXED/ RED LED
  5. OFF
- UNLESS THE PLS2 IS ON NUMBER 4 MODE, UNIT WILL NOT OPERATE IF TILT EXCEEDS 6° OUT OF LEVEL.
  - AMBER LED = LOW BATTERY
  - PLS2E MENU SAME AS ABOVE. PRESS "PULSE ON" BUTTON TO ACTIVATE PLS2E PULSED BEAM TO USE OUTDOORS WITH PLS LD LASER DETECTOR.
  - FLASHING LED INDICATES LASER IS PULSING AND CAN BE USED WITH PLS LD LASER DETECTOR.
  - PLS2E PULSED BEAM WILL BE LESS BRIGHT THAN NON-PULSED BEAM.

## 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 one year 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.



## SAFETY LABELS

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

WARNING LABEL



ID# CERTIFICATION LABEL

PLS2 COMPLIES WITH FDA PERFORMANCE STDS. 21 CFR, SUBCHAPTER J

SERIAL NUMBER:  
MFG'D:

CAUTION: LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS. PATENT PENDING  
REG. US PATENT OFFICE  
PLS 2656 BRIDGEWAY, SAUSALITO, CA 94965

PLS2 complies with US FDA standards, 21 CFR, Subchapter J.

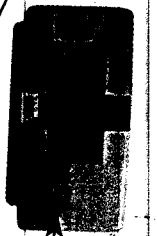
These labels are attached to every PLS laser. These are not to be removed or defaced.

PLS • 2656 BRIDGEWAY, SAUSALITO, CA 94965  
800 601 4500

BACK

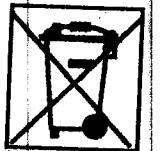


FRONT



APERTURE LABEL

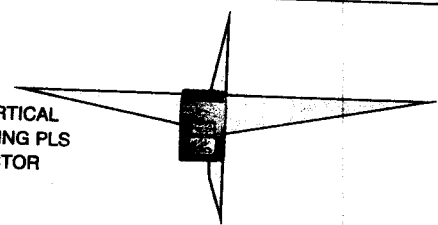
AVOID EXPOSURE LASER RADIATION EMITTED FROM THIS APERTURE



## SPECIFICATIONS

Light source:	Semiconductor laser diode 635-670 nm, visible
Working range:	+/- 100 feet (outdoor w/detector)
Accuracy:	<1/8" @ 30 Feet (outdoor w/detector) <3mm @ 10 meters
Leveling:	Automatic
Leveling range:	+/- 6°
Power supply:	3AA batteries alkaline or rechargeable
Operating time:	+25 hours continuous use with single beam; 12.5 hours both beams
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/ TILT OVERRIDE #4 Amber light: BATTERY LOW Flashing: pulse beam- PLS2E
Environment:	Water resistant; not submersible
Dimensions:	2" x 2-7/8" x 3-3/8"
Weight:	10 oz.(.28kg) (including batteries)

PULSE PLS2E  
W/DETECTOR  
AVERAGE  
DISTANCE AND  
HORIZONTAL-VERTICAL  
LINE LENGTH USING PLS  
LD LASER DETECTOR



DISTANCE	LINE LENGTH	ACCURACY
30ft	75ft	1/8"
50ft	75ft	3/16"
100ft	125ft	3/8"