



PL3 Plumb Beam & Level

Owner's Manual

GENERAL INFORMATION

The AGATEC PL3 laser has three 90° beams for simultaneous plumb and level reference points, and is ideal for these applications:

- Carpentry: Level trim and windows. Plumb for framing and wall layout.
- Electrical: Level electrical outlets. Floor-to-ceiling point transfer for lighting installation.
- Plumbing: Floor-to-ceiling point transfer for ceiling sprinkler system layout.

SPECIFICATIONS

Recommended use	Up to 100 ft. (30m)
Accuracy	± 1/8" at 50 ft. (± 2mm at 10m)
Self-leveling range	± 5°
Laser beams	Visible; horizontal pointer plus plumb beam
Power	3 AA batteries. Auto shut-off after 1 hr.
Battery life	20 hrs. continuous use
Working temperature	14° to 122° F (-10° to +50°C)
Storage temperature	-5° to 160° F (-20° to +70°C)
Tripod mount	1/4" x 20 camera tripod
Size	4 1/2" x 2 1/4" x 3 7/8" (11 x 5.8 x 10 cm)
Weight	1 lb. (470 g)

SAFETY

Do not stare directly at the beam. Do not set up the laser at eye level.

Label A:



AVOID EXPOSURE. LASER LIGHT IS EMITTED FROM THIS APERTURE

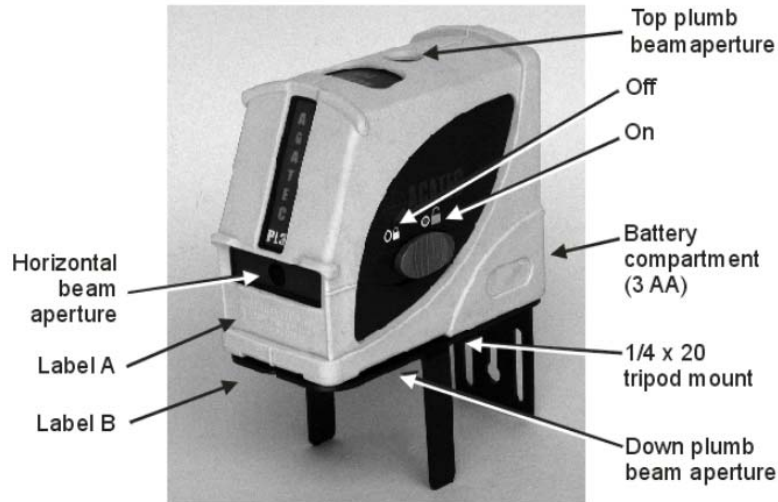
Label B:

CLASS 3R LASER PRODUCT
 WAVE LENGTH 630-680 nm
 MAX. OUTPUT POWER: 5mW
 LASER LIGHT: AVOID DIRECT EYE EXPOSURE
 CONFORMS TO IEC 60825-1: 2001
 COMPLIES WITH 21 CFR 1040.10 AND 1040.11
 EXCEPT FOR DEVIATIONS
 PURSUANT TO LASER NOTICE NO. 50
 DATED JULY 26, 2001
 AGATEC, 2202 Redmond Road
 Jacksonville, AR 72076

CAUTION

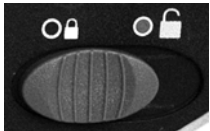
Using of controls or adjustments of procedures other than those specified herein may result in hazardous radiation exposure.

FEATURES



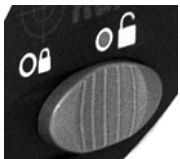
USING THE PL3

Pendulum lock (Off position – to the left)



The PL3 is a precision instrument and should be treated with care; it uses a pendulum mechanism for self-leveling. When not in use, the pendulum should always be in the Off position. Locking the pendulum allows it to better withstand vibration during transportation or if unit is dropped.

Automatic leveling (On position – to the right)



When the On button is pushed to the right, the pendulum is unlocked and it is free to automatically level or plumb. In order for the PL3 to automatically level, it must be within 5 degrees of level.

If the unit is 5 degrees or more out of level, the laser beams will blink. If it's out of level over 3 minutes, the beams will shut off automatically.

To restart the unit, set it in a level position (within 5 degrees of level). Turn it off (left button position) and then turn it on again (right position).

Auto shut-off

To save battery life, the laser has an automatic shut-off, and will turn off automatically in 1 hour.

REPLACING THE BATTERIES



1. Open the battery cover.
2. Replace all three batteries.
3. Return the battery cover to its original position.

Alkaline batteries are recommended for longest battery life. The laser cannot be used with rechargeable batteries or an external DC power source.

ATTACHMENT

Metal studs or other metal surfaces: use the magnet on the universal mount

Tripod with 1/4" X 20 mount: Use the threaded hole located on the bottom of the laser to attach it to a camera tripod. If you wish to attach it to a 5/8 x 11 construction tripod, an optional accessory is available.

Wall: Remove the magnet block from the universal mount, and use the keyhole slot to attach to a wall using a drywall screw (at least 2" /5cm long).

Columns or pipes: Attach the mount using a heavy-duty piece of Velcro or wire.

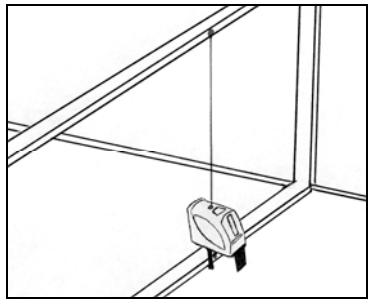
Floor: Place the laser directly on the floor; or, to see the "down" plumb beam spot, put the laser on the universal mount. (Also see next page)

USING THE MOUNT FOR PLUMB APPLICATIONS



The mounting bracket is designed to extend over a drywall track or floor stud. This allows for fast plumb set-up when framing out a wall.

1. Attach laser to the mount so the downward plumb beam is passing through the hole between the 2 front legs of the mount.



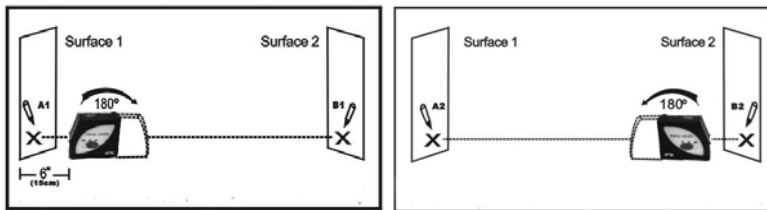
2. Position laser perpendicular to the floor track or floor stud so the 2 front legs of the mount are against the outside edge of the track or stud.

3. The downward plumb beam will be on the outside edge of the track or stud.

4. The top track or top stud can then be positioned in the same manner to assure it is plumb with the floor track or stud.

CHECKING AND ADJUSTING CALIBRATION

We recommend that you check the instrument's accuracy before initial use; then periodically to ensure proper reference.



1. Set up the PL3 about 6" (15 cm) away from a wall (a) and about 24 ft. (7.5m) from another wall (b).
2. Turn on the unit and be sure it is self-leveling (beam is not blinking).
3. Carefully mark the center of the laser dot on Surface 1. This is A1.
4. Rotate the laser 180 degrees and mark the dot on Surface 2 (this is B1).
5. Move the laser 6" away from Surface 2 and mark the dot on Surface 2 (this is B2). (See right illustration)
6. Rotate the laser 180 degrees and mark the dot on Surface 1 (this is A2).

7. Measure the distance between A1 and A2, and also between B1 and B2. If the distances are the same, the laser is in calibration. If the difference between the two sets of marks is greater than 1/8" (3mm), the laser is out of calibration.

CARE AND HANDLING

The PL3 is a precision instrument which should be handled with care. Avoid shock and vibration. Keep it dry and clean; dry off before storage.

Avoid storing in excessively hot or cold areas.

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth, dampened in a mild soap-and-water solution.

Keep the laser aperture windows clean by periodically wiping them with a cotton swab dipped in rubbing alcohol.

WARRANTY

EXPRESS WARRANTY FOR HARDWARE. AGATEC warrants to the original end user ("Customer") that this Product will be free from defects in workmanship and materials, under normal use, for one (1) year and non-AGATEC-manufactured products for which ninety (90) days shall apply, unless such warranty period has been extended by AGATEC, and provided any and all operating and maintenance instructions are strictly respected, in particular in case of extreme and/or continuous applications/use of the Product. The warranty period begins on the proved purchase date, or if applicable, date of delivery or date of acceptance report. AGATEC's sole obligation under this express warranty shall be, at AGATEC's sole option and expense, to replace or repair the Product or part, or refund the purchase price paid for the Product. AGATEC warrants any repaired or replaced Product or part for a period of ninety (90) days from shipment, or through the end of the original warranty, whichever is longer. All Products or parts that are replaced become the property of AGATEC. This express warranty does neither cover consumables, such as batteries, bulbs and fuses, nor third party products. **OBTAINING WARRANTY SERVICE.** Customer must contact an authorized service center of AGATEC or AGATEC within the applicable warranty period to obtain warranty service authorization. Dated proof of original purchase from AGATEC's authorized distributor and a description of the defect will be required. AGATEC is not responsible for Products or parts received without a warranty service authorization. Repaired or replacement Products will be shipped to Customer at AGATEC's expense. The repaired product or part will be shipped as soon as reasonably possible. AGATEC shall not be responsible for any damages occurring during such shipment. For Products forming part of a fixed installation, such place of performance shall be the site of such installation and AGATEC shall have the right to charge for additional costs for such services under warranty if the site of the Product is other than where the Product was originally shipped or installed.

WARRANTY EXCLUSIVE. Customer's sole remedy for breach of the warranty shall be the express warranty. The foregoing warranty is exclusive and is in lieu of all other warranties, terms, or conditions, express or implied, either in fact or by operation of law, statutory or otherwise, including warranties, terms or conditions of merchantability, fitness for a particular purpose, satisfactory quality and non-infringement, all of which are expressly disclaimed. AGATEC shall not be liable if the alleged defect or malfunction was caused by Customer's or any other person's misuse, neglect, improper installation, unauthorized attempts to open, repair or modify the Product, inadequate maintenance, disregard of operating instructions, excessive load or stress, normal wear and tear, or any other cause beyond the range of its intended use, by accident, fire, or other hazards, or other cause not due or attributable to AGATEC. This warranty does not cover physical damage to the Product or malfunctions resulting from the use of the Product in conjunction with any sort of ancillary or peripheral equipment and AGATEC determines that there is no fault with the Product itself. **LIMITATION OF LIABILITY.** AGATEC also excludes any liability, whether based on contract or tort (including negligence), for incidental, consequential, indirect, special, or punitive damages of any kind, or costs of procurement of substitute products by customer, or for the

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