

AUTO **1**TM

*Auto Levelling Rotating Laser
and Electronic Receiver*



Level **1TM**
Lasers

Model: AUTO1

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User Safety

- Laser output sign lies near the output aperture.
- Do not stare directly into laser beam.
- Do not disassemble the instrument or attempt to perform any internal servicing. Repairs and service should be performed only authorised service centres of Redback Lasers.
- This instrument complies with the safety Classification standards of laser radiation.



CAUTION: Class II laser <1mW at 635nm.
Do NOT stare into laser beam or aim at another person.

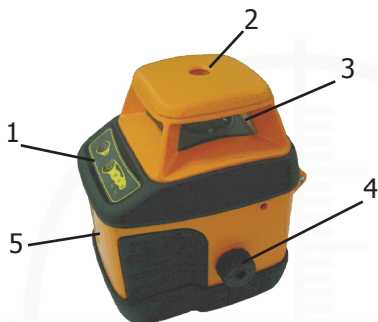
Follow relevant Australian Standards

AUTO1™ Included Accessories

- AUTO1™ Laser Unit
- Protective Carry Case
- Standard "AA" Batteries
- LR700 Electronic Receiver
- Receiver Staff Clamp
- Side Mount Bracket (wall mount)
- Instruction Manual



AUTO1™ Laser Unit



- 1. Control Panel
- 2. Dot Laser Output
- 3. Rotating Laser Output
- 4. Pendulum Lock
- 5. Vial for Vertical Rotation Mode
- 6. DC Input (optional Power Supply)
- 7. Battery Compartment 6x "AA"
- 8. Tripod 5/8"-11tpi Mount

Side Plate

Attachment Lever



Adjustment Pin

5/8" - 11tpi Screw

AUTO1™ OPERATING INSTRUCTIONS

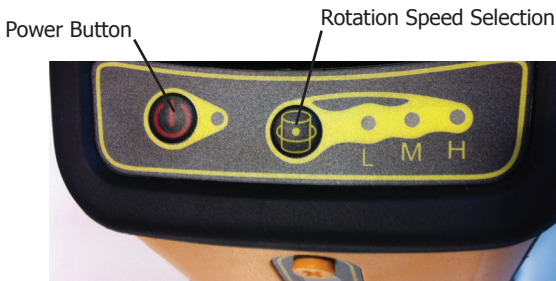
Battery Instructions

The AUTO1 operates on 6 x standard Alkaline "AA" batteries, simply unscrew the battery compartment where indicated and insert batteries in the direction shown.



Turning Laser On For Levelling (Horizontal Operation)

Place laser on Tripod or on a stable surface, rotate the pendulum locking knob to the un-locked position (marked as "ON") then press the power button on the control panel. The laser will auto level, the laser head will rotate and emit a laser beam.



AUTO1™ OPERATING INSTRUCTIONS

Rotation Speed

The AUTO1™ has three rotation speeds (Low, Medium and High), under normal conditions high speed is recommended when using the LR700 electronic receiver. If you are using the laser indoors visibly a slower rotation speed may increase the visibility of the line produced.

Rotation speed is changed by pressing the speed button on the control panel an LED light will indicate the selected speed, further presses of this button will toggle between the three available speeds.

Side Mount Plate

The Side Plate can be used in two ways; firstly as a wall mount in horizontal levelling mode and secondly as a side mount for vertical rotation mode.

The plate clips onto the bar at the back of the AUTO1 laser and is removed by pressing the attachment level.



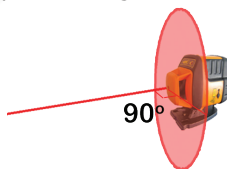
AUTO1™ OPERATING INSTRUCTIONS

Vertical Rotation Mode (Manual Levelling)

The AUTO1™ can be placed on its side with the side mount plate attached and used for vertical rotation, this can be handy for any indoor vertical alignment off the rotating beam.

To operate the AUTO1 in vertical rotation mode DO NOT unlock the pendulum, leave it in the "OFF" position, use the adjustment screw on the side mount to level off the bubble vial on the AUTO1. Once the bubble is central in the vial press the power button on the laser and the laser head will begin to rotate, the rotating beam being a vertical line and the dot beam being level.

Another application where the vertical mode can be usefull is site squaring by aligning the dot laser beam along one axis of the 90 degree square and then using the receiver to pick up the rotating beam which is at 90 degrees to the dot laser beam.



Laser Wavelength	635nm <1mW
Laser Class	II
Range with LR700 Receiver	240m diameter
Accuracy	±4mm/20m
Self Levelling Range	±3°
IP Dust Water Resistance	IP54
Workin Temperature	-10°C to +40°C (in shade)
Power	6 x "AA" Alkaline
Low Power	Power LED Flash
Size	132x120x160mm
Weight	1.5Kg

AUTO1™ OPERATING INSTRUCTIONS

LR700 Receiver operation

The LR700 is an electronic laser receiver/detector and comes with a staff clamp bracket which allows you to attach the receiver to a measuring staff.



Power up by pressing the power button, hold the receiver so the reception window is facing the rotating laser (upright for horizontal and on its side for vertical rotation). When the reception window is level with the rotating beam the LED indication lights and Sound will alert you, When the laser beam is absolutely level with the receiver the central green LED is illuminated the red LED's above and below indicate when the laser beam is just above or below the central line on the receiver.

The Bubble vial will help you hold the receiver and staff vertical when taking readings. The line on the staff clamp lines up with the level mark on the receiver. Note that the receiver only works on the rotating beam and not the dot, and that high speed rotation tends to work better than medium or slow.

12 Month WARRANTY - LEVEL 1 LASERS

CMI Industries Pty Ltd provides consumers with a warranty to our products, this is in addition to requirements of any relevant legislation such as the Competition and Consumer Act 2010. Definitions: "CMI", "We" or "Our" "Level1Lasers" refers to CMI Industries Pty Ltd (ABN 29 102 713 922) of 8 Autumn St, Geelong West, Victoria 3218 ph (03) 5228 0777

"You" or "Consumer" refers to the initial purchaser of the product.

"Product" refers to goods manufactured by or for CMI Industries Pty Ltd under the brand of Level1Lasers.

"Material" refers to material or component used in the construction and manufacture of the product.

"Workmanship" refers to handling, assembly and manufacturing processes done by or for CMI Industries Pty Ltd in order to manufacture the products.

"Warranty Period" For Level1Laser Products is **12 Months**. Warranty period is from original purchase date, no extension is made in the event of warranty replacement products supplied or time spent being repaired.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

CMI warrants that our products will be free from defects in material and workmanship for the warranty period.

CMI promises to repair or replace, free of charge, the product or part of product if found to be faulty due to defective workmanship or materials within the duration of the warranty as long as the following terms and conditions are met;

- Product must not have been misused or abused, must not have incurred accidental damage or had un-authorised repair or tampering that has caused or contributed to its fault or failure.
- You must contact CMI by phone, mail or email immediately when a fault or defect has become apparent and within the warranty period.
- Product must be returned to store of purchase or directly to CMI, we will cover cost of postage only when sent by our reply paid Australia Post service (Australian Main land and Tasmania only) details will be provided upon phone, post or email communications with us.
- CMI will cover cost of freight back of repaired or replaced product to original purchase store or you directly (depending on how it was sent Australian Main Land and Tasmania only).
- CMI will determine whether to repair or replace the product or part of product on a case by case basis.
- Further exclusions in this warranty include damage or defect caused by use of non-original accessories or parts, damage in transportation, normal wear and tear, damage through moisture, damage due to electric surge, failure due to neglect or damaged caused by adjustments not outlined in CMI's instructions.

Subject to the requirements of all applicable Australian Acts or legislation and to the extent permitted by law, CMI accepts no liability (whether expressed or implied) of any nature whatsoever for any loss of earnings, hiring of replacement equipment, Inaccurate work carried out by the consumer or agent, damage or injury arising as a result of any fault in the product. It is the consumers responsibility to maintain good working practices and regularly test their tools for accuracy and serviceability.

Calibration of the product is not covered by warranty subject to the requirement of all applicable Australian Acts or legislation and to the extent permitted by law,

A CMI product returned that fails to fall within the terms and conditions of this warranty will be quoted for repair.