

# L203

## *Multi Line Laser Level*



Level **1**<sup>TM</sup>  
Lasers

Model: L203

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**For Guides on how to use, visit.**  
**[www.level1lasers.com.au/l203.html](http://www.level1lasers.com.au/l203.html)**

## 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 <math><1\text{mW}</math> at 635nm.  
Do NOT stare into laser beam or aim at another person.

Follow relevant Australian Standards

## L203

- L203 Laser Unit
- Laser Enhancement Glasses
- Standard "AA" Batteries
- Instruction Manual
- Hard Shell Carry Case



## L203 Laser Unit



1. Control Panel
2. Vertical Laser Output #1
3. Vertical Laser Output #2
4. Horizontal laser Output
5. Pendulum Lock
6. Adjustment Feet
7. Tripod 5/8"11tpi Screw/ dot Down
8. Rough Levelling Bubble Vial
9. Battery Compartment



# L203 OPERATING INSTRUCTIONS

## Battery Instructions

The L203 operates on 3 x standard Alkaline "AA" batteries, first remove the battery compartment cover by pushing down on the latch. Insert batteries into the battery compartment as indicated, make sure the polarities are correct before replacing the cover.

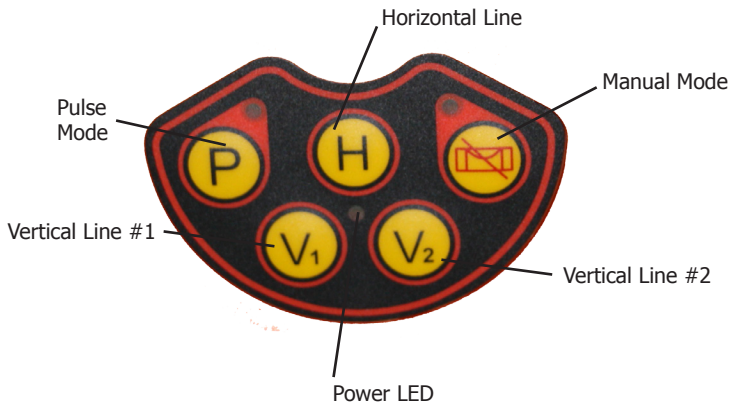


## Levelling and Turning on Laser

The L203 Multi Line Laser is automatically levelling. Rotating the pendulum locking knob clockwise from "off" to "on" will allow the L203 to self level and power it up. NOTE: if the L203 emits a loud beeping sound and the laser lines flash then the body of the laser is outside of self levelling range. The L203 can be roughly levelled into self levelling range by rotating the adjustment feet using the bullseye vial. The bubble vial does NOT need to be perfectly central, as long as the out of level arm is not sounding then the published accuracy will be achieved.



# L203 OPERATING INSTRUCTIONS



The L203's can now be turned on as required. For the horizontal press the "H" button and the two Verticals the "V1" and "V2" buttons, note as you turn on the vertical lines the plumb down dot will also be powered up. To power off individual lines again press either "H", "V1" and "V2" as desired. To power off the complete laser unit rotate the pendulum lock to the "off" position.

The L203 features a manual level mode, which forces the laser lines to turn on without first unlocking the pendulum, this can be handy to have a laser line at a custom angle such as balustrades. To enter manual mode DO NOT unlock pendulum leave in "off" position. Press the manual button and the Manual Mode LED will flash and the Line buttons can be pressed to turn on the laser lines, the body of the laser can be tilted in any angle that you require. To exit manual mode press the Manual Level button once again and the L203 will power down.

The L203 also features Pulse mode, this allows the lines to be picked up by optional line laser receivers such as the LR200. Pressing the "P" pulse button toggles this feature on and off.

# L203 OPERATING INSTRUCTIONS

## Using with Optional Electronic Line Receiver

The L203 can be used with an optional electronic Line receiver such as LR200. Using a receiver allows the L203 to be used outdoors in full sun where the lines are no longer visible to the human eye. Once the L203 is in pulse mode the receiver will pick up the position of either the horizontal or vertical lines (receiver on its side) and will indicate where the laser line is to 1mm accuracy.



LR200 (optional extra)

## Modes of Operation

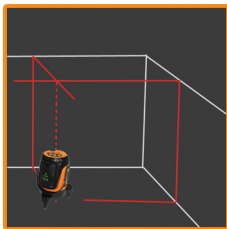
The L203 can be used for just about any indoor applications whether you need to plumb up or down, level, align or square this laser can do it. The L203 can even be useful outdoors using an optional receiver with the lines in pulse mode.



Horizontal



Horizontal & Verticals



Plumb Up & Down

The L203 can be manually rotated on its base on its plumb axis, handy for setting out a 90 degree square with the two verticals. The L203 can also be mounted on a standard 5/8 11tpi survey thread tripod such as the optional iet68, the thread can be found in the centre of the base.

# L203 TECHNICAL SPECIFICATIONS

Laser Wavelength	635nm <1mW
Laser Class	II
Range Visible (light dependant)	20m max
Accuracy	±2mm/10m
Range with Optional LR200	30m any light conditions
Tripod Threads	5/8" 11tpi
IP Dust Water Resistance	IP32
Workin Temperature	-10°C to +40°C (in shade)
Power	3 x "AA" Alkaline
Low Power	Power LED Flash

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## Care & Maintenance

- Keep laser and accessories stored in protective case.
- Make sure laser is stored dry, dry out before storage to prevent damage.
- Remove batteries when not used for an extended period of time to prevent leakage. (battery leakage is NOT covered by warranty)
- The L203 is a precision instrument and should not be subjected to excessive knocks, drops or vibrations.
- Self check calibration from time to time.
- For service contact Redback Lasers. **[www.level1lasers.com.au](http://www.level1lasers.com.au)**

## Trouble Shooting - FAQ

**Q. *I hear a continuous beeping when turned on!***

**A.** *This is the out of level alarm indicating that the L203 is outside of self levelling range, re level the laser housing and try again.*

**Q. *The Laser does not power up!***

**A.** *Check the pendulum lock has been unlocked, rotated into the "Unlock" position.*

**Q. *The Laser does not power up!***

**A.** *Check the batteries connected correctly and replace standard "AA" size Alkaline batteries if necessary.*

# 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 18b Tarkin Court, Bell Park, Victoria 3215 ph (03) 5240 3999

"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.