

Multi line & Dot Laser Level - DL3

Instruction Manual



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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

DL3™ INTRODUCTION

Congratulations on purchasing the DL3™ multi line and dot laser level with plumb up/down, horizontal and vertical alignment.

The DL3™ is automatic levelling and features a secure pendulum lock to prevent accidental damage when not in use.

The DL3™ features clear bright horizontal, vertical and ceiling lines to produce a wall cross and ceiling cross as well as a clear bright dot providing plumb down.

The DL3™ is ideal for all types of indoor installation work whether its electricians transcribing points from floor to ceiling, air conditioning installers, windows and garage doors. In fact this laser can just about do anything indoors.

Other features of the DL3™ include is a sturdy magnetic base, Tripod mounting options, heavy duty construction with rubberised casing and Std "AA" Size battery operation. The DL3™ also boasts an industry leading Two Year Redback Warranty. (See page 12)

DL3™ Included Accessories

- DL3™ Laser Unit
- Protective Carry Case
- Standard "AA" Batteries
- Magnetic Base
- Attachment Straps
- Magnetised Target
- Glasses to Assist Viewing of Laser
- Instruction Manual

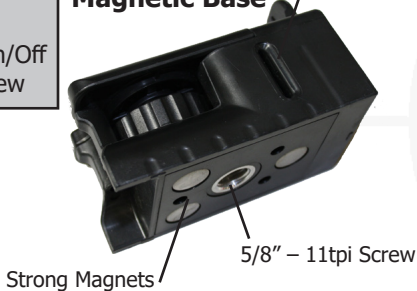


DL3™ DIAGRAMS



1. Control Panel
2. Top Laser Line Output
3. Vertical Line Laser Output
4. Horizontal Line Laser Output
5. Plumb Dot Laser Output
6. Rubberised Casing
7. Pendulum Lock & Power On/Off
8. Magnetic Base Locking Screw

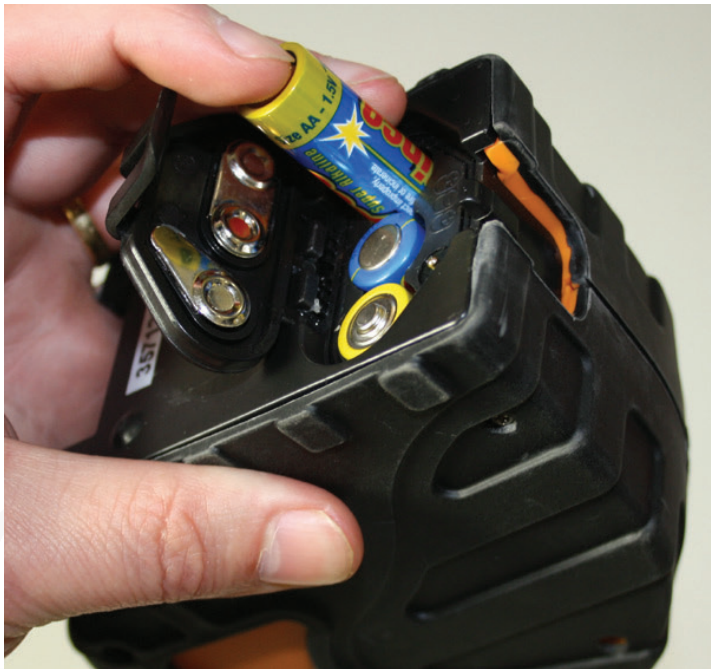
Magnetic Base Strap Slots



DL3™ OPERATING INSTRUCTIONS

Battery Instructions

The DL3 operates on 3 x standard "AA" batteries, first remove the magnetic base from laser to expose underside, locate battery compartment and pull latch to open battery compartment. Insert batteries in directions indicated and close battery compartment cover.



When the power LED on the control panel flashes, the batteries need replacing. Note if you plan not to use the laser level for a while remove batteries to prevent any possible damage caused by leaking batteries. Important: never mix new and old batteries or batteries of different type e.g. Alkaline and Super heavy duty.

DL3™ OPERATING INSTRUCTIONS

Operation

The DL3™ is turned on by rotating the pendulum lock lever anti-clockwise to the "ON" position at which point all the line lasers and plumb dot down will power up. The pendulum will also be un-locked and ready to self level.

If all the lasers flash together with a loud beeping sound then the DL3™ is out of self levelling range and the laser housing needs to be set up more level on the ground or tripod until the beeping stops and the lasers remain a solid beam, the DL3 is now in self levelling range.



The pendulum lock helps protect the laser level when not in use, always store your DL3™ with the lever in the "OFF" position.



Once turned on, pressing the H/V button will toggle between the various lines available, Horizontal, Vertical, Roof etc.

The DL3 has a manual mode, in other words it can display the laser lines without first levelling. This is achieved by first NOT unlocking the pendulum and pressing the Manual Level button, note that the level warning light flashes indicating that the laser is NOT self levelling. To return to self levelling mode press once more the manual levelling button and unlock the pendulum the DL3 will now self levelling as normal.

Magnetic Base Operation

The DL3™ can be used either on its own or attached to the magnetic base, the "Base Locking Screw" secures the magnetic base onto the DL3™.

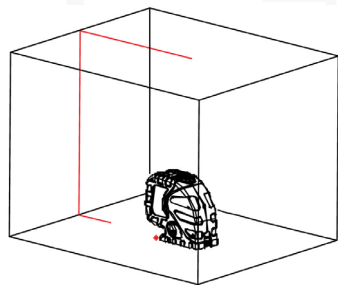
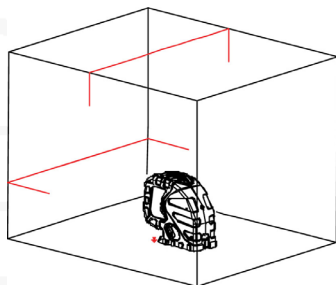
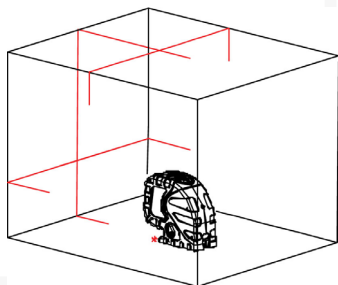
The Magnetic base can be mounted on any horizontal or vertical steel surface, it can also be mounted onto a standard survey style indoor tripod with 5/8" 11tpi thread. The DL3™ kit also comes with a strap that can be threaded through the base and around non magnetic surfaces such as plastic pipe or wood studs.

The DL3 can also be mounted directly onto a camera style tripod utilising the same thread in the base of the laser that the magnetic base attaches to.

DL3™ OPERATING INSTRUCTIONS

Modes of Operation

The DL3™ can be used for just about any indoor applications weather you need to plumb up or down, level or align this laser can do it.



DL3™ TECHNICAL SPECIFICATIONS

Technical Specifications

Laser Wavelength	635nm <1mW
Laser Class	II
Range Lines (light depending)	20m Radius Indoors
Laser Colour	Red
Accuracy	±2mm/10m
Self Levelling Range	±4°
Vertical Line Fan Angle	160°
Horizontal Line Fan Angle	130°
Temperature Range	-10°C - +45°C
IP Dust Water Resistance	IP54
Power	3 x "AA" Alkaline
Low Power	Power LED Flash
Size	134x62x122.5mm

Calibration & Self Check

All Redback Lasers have been checked for calibration and certified by one of our technicians here in Australia prior to despatch and should under normal conditions not go out of calibration. A calibration certified sticker with the date and name of technician is located on the laser itself. It is worth checking calibration from time to time particularly after any known knocks or drops. An easy way to continually check calibration is to always double check you work with the laser located in a different position or use an alternate vertical line. Various other methods for checking calibration can be found at www.redbacklasers.com.au/downloads or the laser can be returned to our service department for checking and re-calibration. We at Redback Lasers provide a once off free calibration and check within the duration of the warranty period see page 12 for details.

DL3™ TROUBLE SHOOTING

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.
- The DL3™ is a precision instrument and should not be subjected to excessive knocks, drops or vibrations.
- Self check calibration from time to time. See page 9
- For service contact Redback Lasers. www.redbacklasers.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 DLD3™ 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 "ON" position.*
- Q.** ***The Laser does not power up!***
- A.** *Check the batteries are charged and connected correctly and replace standard "AA" size Alkaline batteries if necessary.*

Notes

REDBACK LASERS WARRANTY

Duration of warranty is fixed and automatic, when we advertise 2 years on a particular model, its two years. No drop down to a lesser time if you forget to register, registration is NOT required just proof of purchase showing date.

Although the duration of our warranties are for a particular period it does not mean we will charge you for a genuine warranty failure a month or two outside that warranty period, we believe in a fair go.

Even though a product shows signs of accidental damage, scratches and the like, we will not automatically fail the warranty claim, if the fault is NOT caused by a drop or misuse and is a genuine warranty failure then we will cover it.

Calibration is not covered by warranty much the same as the wheel balance on your car is not covered by warranty, we do however offer a one off free re-calibration service during the period of warranty, conditions and details below.

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" 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 brands of RedBack Lasers, Level1Laser and CMI Lasers.

"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 the DL3 is Two Years. 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-authorized 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, CMI does however offer a free re-calibration service (once within the period of the warranty) you are liable for the cost to send the product to us then we will recalibrate and return the product to you free of charge. Note this offer is invalid if the product shows signs of misuse or accidental damage that has caused it to go out of calibration.

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

RedBack Lasers™ distributed by CMI Industries Pty Ltd
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