



for Professionals

RedBack Lasers DLD5X

Multi line & Dot Laser Level - DLD5X

Instruction Manual



www.redbacklasers.com.au

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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

DLD5X™ INTRODUCTION

Congratulations on purchasing the DLD5X™ multi line and dot laser level with plumb up/down, horizontal/vertical alignment and 90 degree square.

The DLD5X™ is automatic levelling and features a secure pendulum lock to prevent accidental damage when not in use.

The DLD5X™ features clear bright horizontal and vertical lines to produce a wall cross as well as clear bright dots providing plumb up and down and three at horizontal at 90° to each other.

The DLD5X™ 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 dot & Line laser can just about do anything indoors.

Other features of the DLD5X™ include a sturdy magnetic base, Tripod mounting options, heavy duty construction with rubberised casing and Std "AA" Size battery operation. The DLD5X™ also boasts an industry leading Two Year Redback Warranty. (See page 12)

DLD5X™ Included Accessories

- DLD5X™ Laser Unit
- Protective Carry Case
- Standard "AA" Batteries
- Magnetic Base
- Attachment Straps
- Magnetised Target
- Glasses to Assist Viewing of Laser
- Instruction Manual



DLD5X™ DIAGRAMS



1. Control Panel
2. Plumb Dot Up Laser Output
3. 3x Horizontal Dots at 90°
4. Plumb Dot Down Laser Output
5. Screw to remove magnetic Base
6. Pendulum Lock & Power On/Off
7. Vertical Line Output
8. Horizontal Line Output
9. 5/8" Survey Tripod Thread

DLD5X™ OPERATING INSTRUCTIONS

Battery Instructions

The DLD5X 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 as indicated and close battery compartment cover.



When the low power LED on the control panel lights, 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.

DLD5X™ OPERATING INSTRUCTIONS

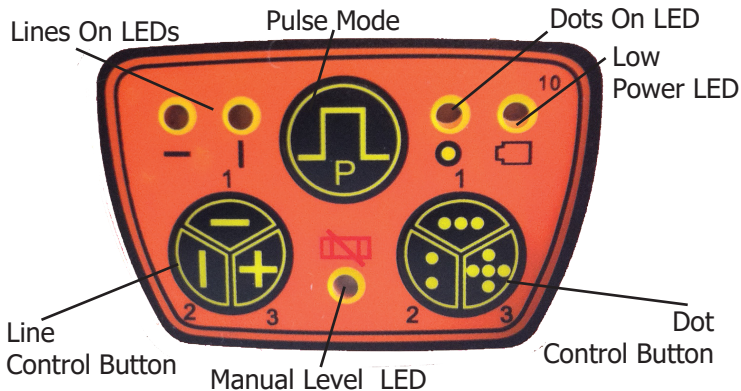
Operation

The DLD5X™ is turned on by rotating the pendulum lock lever clockwise to the un-locked position at which point the pendulum will be “Unlocked” and ready to self level.

If the lasers flash together with a loud beeping sound then the DLD5X™ 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, the DLD5X is now in self levelling range.



The pendulum lock helps protect the laser level when not in use, always store and transport your DLD5X™ with the lever in the “Locked” position.



Once unlocked, pressing the Line button will toggle between Horizontal Line, Vertical Line, Both lines and lines off. Pressing the Dot Button will toggle between Horizontal dots, Plumb Up/Down dots, All dots and dots off.

The DLD5X has a manual mode, in other words it can display the laser lines and dots without first levelling. This is achieved by NOT Unlocking the pendulum and pressing the Line or Dot buttons note the manual level LED will flash.

Magnetic Base Operation

The DLD5X™ can be used either on its own or attached to the magnetic base, the "Base Locking Screw" secures the magnetic base onto the DLD5X™.

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 DLD5X™ kit also comes with a strap than can be threaded through the base and the around non magnetic surfaces such as plastic pipe or wood studs.

The DLD5X 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.

DLD5X™ OPERATING INSTRUCTIONS

Using with Optional Electronic Line Receiver

The DLD5X™ can be used with an optional electronic Line receiver such as the RedBack LLR705 or LR200. To use a receiver the DLD5X needs to be switched into Pulse Mode by pressing the pulse button, this makes lines visibly a little less bright but is required for the receiver to pick the lines up. (note: dots cannot be picked up by the receiver) When lines are in Pulse mode the line indicator LEDs flash.

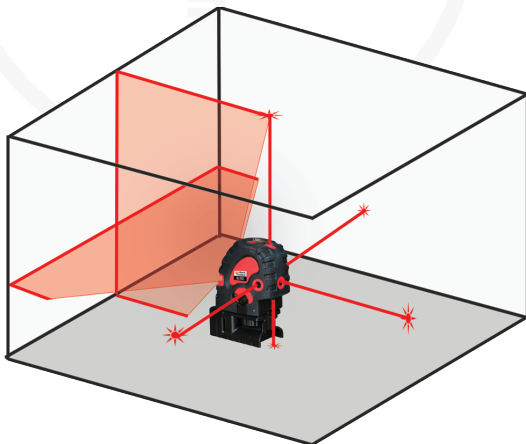


LLR705

Line Range with Receiver 40m

Modes of Operation

The DLD5X™ can be used for just about any indoor applications weather you need to plumb up or down, level, align or square this laser can do it. The DLD5X™ can even be useful outdoors in dot mode as long as the conditions are not too bright, or when using an optional receiver with the lines in pulse mode.



DLD5X™ TECHNICAL SPECIFICATIONS

Technical Specifications

Laser Wavelength	635nm <1mW
Laser Class	II
Range Lines (light depending)	20m Radius Indoors
Range Dots (light depending)	30m Radius Indoors
Accuracy	±2mm/10m
Self Levelling Range	±3°
Vertical Line Fan Angle	160°
Horizontal Line Fan Angle	130°
Temperature Range	-10°C - +40°C
IP Dust Water Resistance	IP54
Power	3 x "AA" Alkaline
Low Power	Power LED Flash

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.

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 DLD5X™ 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 DLD5X™ 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.*

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 Unit 2, 381-383 Thompson Rd, Bell Park, Victoria 3215 ph 1800 769 858

"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 DLD5X 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-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, 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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