



for Professionals

RedBack Lasers D27xx

Multi Dot Laser Level - D27xx range

Instruction Manual

D27xx Range

D272R / DA272G



D273R / DA273G



D275R



www.redbacklasers.com.au

CONTENTS

User Safety	2
Introduction and D27xx™ Accessories	3
D27xx™ Diagram	4
Operating Instructions	6
Batteries	6
Power	7
Calibration Self Check & Technical Specifications	8
Care & Maintenance, Trouble Shooting	10
Warranty	12



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.



D27xR CAUTION: Class 2 laser <1mW at 635nm.
D27xG CAUTION: Class 3r laser <5mW at 522nm.

Do NOT stare into laser beam or aim at another person.

Follow relevant Australian Standards

D27xx INTRODUCTION

Congratulations on purchasing one of the RedBack D27xx range of Auto Levelling multi dot laser levels. These instructions covers the operation of the following RedBack models D272R, D272G, D273R, D273G and D275R .

Depending on which model you purchased you will have either 2, 3 or 5 laser dots on your laser level. Also depending on the model you purchased these laser dots will either be red or green in colour.

The D27xx range are ideal for all manner of internal fit out applications. All models produce a plumb dot floor and ceiling, the D273R/G D275R models also features a level dot. The D275R has three level dots at 90 degrees to each other, handy for kitchen and other layout applications.

All D27xx laser levels are powered by 3x "AA" Alkaline batteries.

The D27xx lasers come in a hard clam shell carry case which also contains a magnetic base and laser target either red or green depending on the model enclosed.

D27xx™ Kits Included Accessories

- a D27xx™ Laser Unit
- Protective Carry Case
- "AA" Batteries
- Magnetic Base
- Laser Target (either Red or Green)
- Instruction Manual



D27xx™ DIAGRAMS



1. Laser Output Windows (No. depends on model)
2. Rubberised Casing
3. Pendulum Locking & Power Knob
4. Base Attachment Screw
5. Magnetic Mounting

Magnetic Base



D27xx™ OPERATING INSTRUCTIONS

Battery Instructions

The D27xx models operate with 3x standard "AA" size Alkaline batteries.

Use a small coin to open the rear battery cover and insert batteries as indicated inside the battery compartment. Make sure they are inserted correctly as damage may result from incorrectly fitted batteries.



Always use a good quality alkaline battery and never mix new and old batteries for optimum performance and battery longevity.

D27xx™ OPERATING INSTRUCTIONS

Turning On the D27xx

To power up, simply unlock the pendulum by moving it to the "ON" position, this will automatically self level the laser and power up all the laser dots at the same time.

For the D272R and D272G models you will see two laser dots one plumb up and one plumb down.

The D273R and D273G models will produce 3 dots, the plumb up and down plus a horizontal level dot.

The D275R model produces 5 dots, plums up and down plus 3 horizontal dots at 90 degrees to each other.

Always transport the D27xx laser level with the pendulum in the locked "OFF" position to protect the device when not being used.



D27xx™ TECHNICAL SPECIFICATIONS

Technical Specifications

D272R, D273R & D275R - Red Beam

Laser Wavelength	635nm Red
Laser Class	2 <1mW
Visible Range (light dependent)	Up To 30m
Accuracy	±2mm/10m
Number Dots	D272R x2, D273R x3, D275R x5
Self Levelling Range	±4.5°
Temperature Range	-10°C - +45°C
IP Dust Water Resistance	IP54
Power	3 x "AA" Alkaline
Low Power	Power LED Flash
Included Accessories	Magnetic Base and Target
Weight	1.0Kg

D272G & D273G - Green Beam

Laser Wavelength	522nm Green
Laser Class	3r <5mW
Visible Range (light dependent)	Up To 60m
Accuracy	±2mm/10m
Number Dots	D272G x2, D273G x3
Self Levelling Range	±4.5°
Temperature Range	-10°C - +40°C
IP Dust Water Resistance	IP54
Power	3 x "AA" Alkaline
Low Power	Power LED Flash
Included Accessories	Magnetic Base and Target
Weight	1.0Kg

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 not covered by warranty)
- The D27xx models are precision instruments and should not be subjected to excessive knocks, drops or vibrations.
- Self check calibration from time to time. See below
- For service contact Redback Lasers. **www.redbacklasers.com.au**

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.



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 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 1 / 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 all the D27xx models 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
Unit 1 / 381-383 Thompson Rd - Victoria - 3215 - Australia
Ph: 1800 769 585 email: sales@redbacklasers.com.au