

Powerline

A1G Green Rotary Laser



INSTRUCTION MANUAL

SAFETY

Please read this instruction manual before operating this product.

Please store this instruction manual in the carry case for future reference.

CAUTION: Class 3 Laser Product

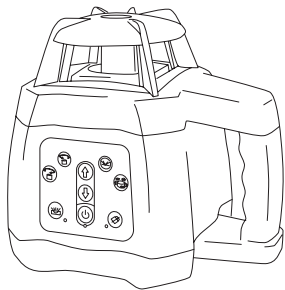
Do not stare directly into the laser beam from apertures.

Do not disassemble the instrument or attempt to perform any internal servicing as this will void your warranty. No user serviceable parts included.

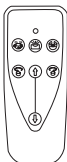
Only approved and authorised service technicians can carry out warranty repairs.

ITEM CHECKLIST

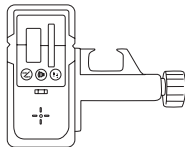
Please ensure the following items are included with your laser.
If anything is missing please contact your retailer.



Powerline A1G



Remote control



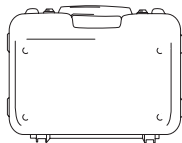
Detector and clamp



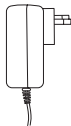
2x Laser targets



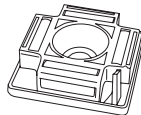
Laser glasses



Carry case



Charger

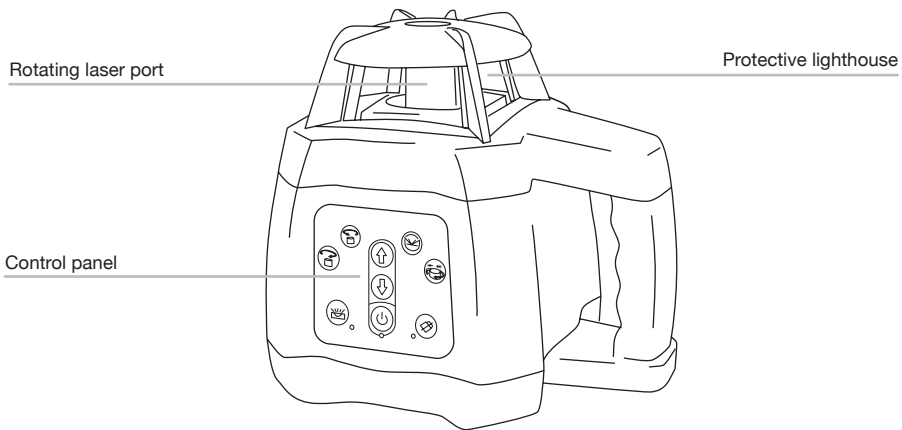


Rechargeable
battery pack

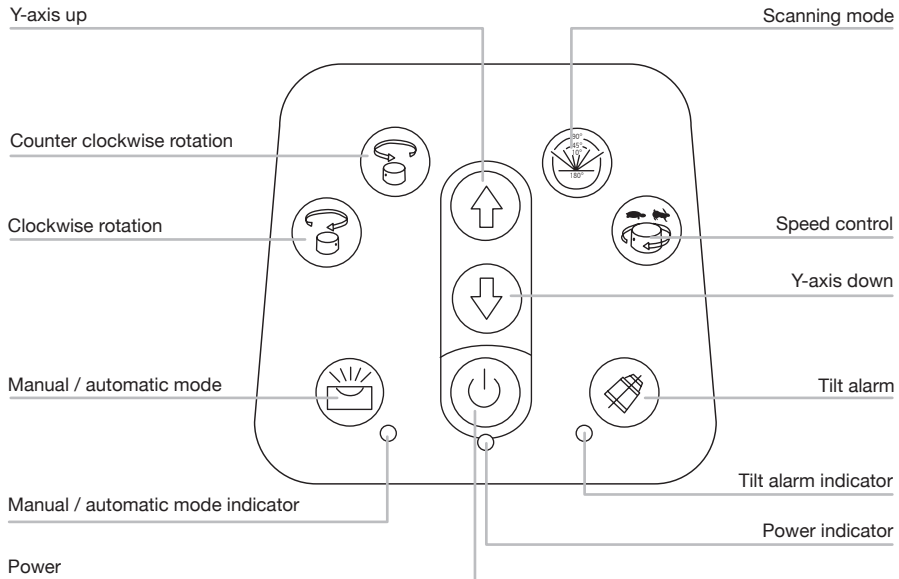


Alkaline
battery pack

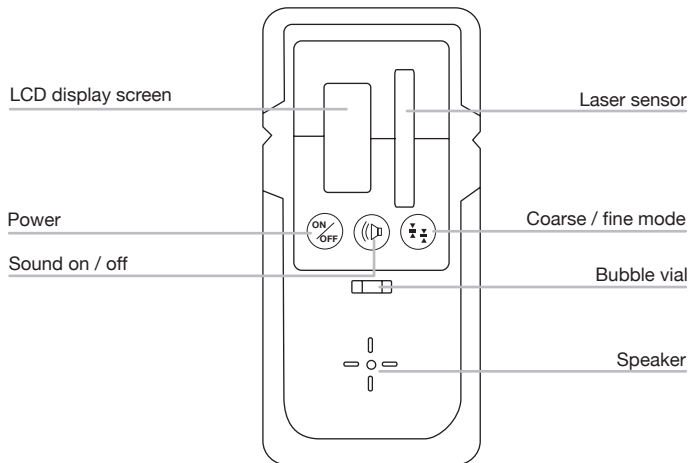
PRODUCT OVERVIEW



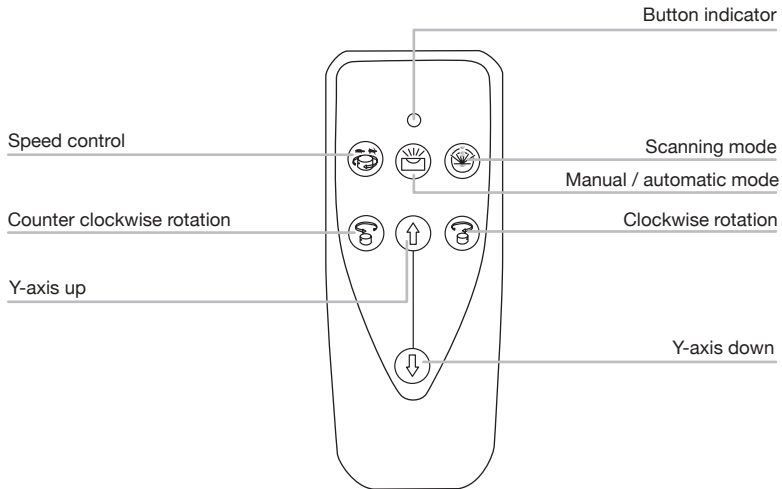
CONTROL PANEL



DETECTOR CONTROL PANEL



REMOTE CONTROL PANEL



USING YOUR LASER

Power Supply

- ▶ The Powerline A1G is supplied with a rechargeable Ni-MH battery pack that is located in the base of the unit.
- ▶ It is recommended that the battery pack be completely charged before use.
- ▶ Charging time is approximately 5 hours.
- ▶ Use of the unit over time and changes in temperature may cause increases or decreases in charging and operation time.
- ▶ The power indicator light will flash when the battery is low. The unit should be re-charged as soon as possible.
- ▶ To charge the unit insert the charger into the port on the battery pack. Progress will be shown by the power indicator display on the charger as below:

Red (flashing) = Charger and battery are not connected.

Red (constant) = Battery is charging.

Green (constant) = Battery is charged.

Setting Up

- ▶ Select a place as close as practical to the work site.
Ensure the location is clear of traffic.
- ▶ Attach the laser to a tripod and place on a level surface.
Ensure the unit is secured correctly and tightened in position.

Operation

- ▶ To turn the unit on press the *power* button. Self levelling will commence and the laser will begin to rotate.
- ▶ If the unit is outside the self levelling range the unit will not level causing the laser beam to flash continuously.

Speed control

- ▶ Press the *speed control* button to cycle through various rotational speeds.

Scanning mode

- ▶ To focus the laser beam between two points press the *scanning mode* button. Pressing the button multiple times will adjust the angle of the beam.
- ▶ To cancel scan mode press the *scanning mode* button several times to cycle through to full rotation.

Rotation

- ▶ Whilst the unit is in scanning mode press the *clockwise* or *counter clockwise* button to change the rotation of the laser head.

Setting up grades / slopes

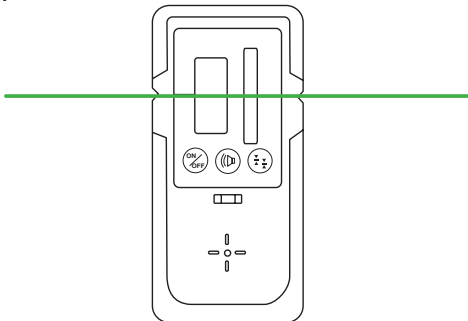
- ▶ To create slopes and grades enter into manual mode by pressing the *manual / automatic mode* button.
- ▶ The *manual / automatic mode indicator* will light up when in manual mode.
- ▶ To adjust the grade use the *Y-axis up* or *Y-axis down* arrows.
- ▶ To cancel out of manual mode press the *manual / automatic mode* button.

Tilt alarm

- ▶ Once the unit has been levelled off the tilt alarm can be enabled by pressing the *tilt alarm* button. The tilt alarm indicator light will flash for approximately 15 seconds. Once the light is constant the alarm is enabled.
- ▶ If the unit is disturbed while the alarm is active the unit will need to be powered off and on again to reset its level position.

Using Your Detector

- ▶ Switch the detector on by pressing the *power* button. The speaker will beep once indicating the unit is operating.
- ▶ The LCD screen will display the battery level, detection mode and speaker function.
- ▶ To change between coarse and fine mode press the *coarse / fine mode* button
- ▶ Move the detector into the path of the laser beam.
- ▶ The direction arrows or level line on the LCD screen will indicate the position of the laser beam. The detector will emit a constant beep once the level position has been located.



Using Your Remote

- ▶ Ensure the unit is turned on and the laser is rotating.
- ▶ Press the *speed control* button to increase or decrease the speed of the lasers rotation.
- ▶ To focus the laser beam between two points press the *scanning mode* button. Pressing the button multiple times will adjust the angle of the beam.
- ▶ Press the *clockwise* or *counter clockwise* button to change the rotation of the laser head while the laser is in scan mode.
- ▶ To create slopes or grades press the *manual / automatic mode* button to enter into manual mode. The *Y axis up* and *Y axis down* button allow adjustment of the tilting angle.

CHECKING CALIBRATION

Before doing any precision levelling it is advised to check the calibration of the unit.

- ▶ Set up the laser on a tripod at about 30m facing a wall or staff with a detector.
- ▶ Allow the unit to level.
- ▶ Detect and note laser position on the wall or staff.
- ▶ Without moving the tripod rotate the unit 180°.
- ▶ Detect and note laser position on the wall or staff.
- ▶ Calculate the distance between the two readings.
- ▶ The difference should be within 6mm at 30m.
- ▶ If the unit is out of calibration it is advised to send it in to *Spot-on*.
(see www.spoton.com.au for details)

TROUBLE SHOOTING

Laser does not turn on

- ▶ Check the batteries. They may be in the wrong way or need replacing.
- ▶ Check the battery compartment for signs of damage. Ensure they are clean and not bent.
- ▶ Connect the main power adaptor.

Laser turns on but does not rotate

- ▶ Check the batteries.
- ▶ Check the battery compartment for signs of damage. Ensure they are clean and not bent.

Laser does not remain on for long periods of use.

- ▶ Check the batteries.
- ▶ Check the battery compartment for signs of damage. Ensure they are clean and not bent.
- ▶ Connect the main power adaptor.

Laser does not level off

- ▶ Unit may be outside its self levelling range. Adjust the unit or tripod so it is level.
- ▶ Unit may have low power
- ▶ Unit may have impact damage.

Detector does not detect the laser beam

- ▶ Check the batteries. They may be in the wrong way or need replacing.
- ▶ Check that the laser is operating correctly.

Detector speaker is not functioning

- ▶ Check sound is on.
- ▶ Check the laser is operating correctly and producing a beam.

CARE AND MAINTENANCE

- ▶ Reflective surfaces such as glass may reflect the beam, causing two beams to strike the detector at the same time. This may create inaccurate reference points.
- ▶ This is a precision instrument and should always be transported within the carry case provided.
- ▶ Whenever possible, store the instrument in a dry, shady location.
- ▶ The A1G should be calibrated every 6 months, if ongoing accurate levelling is required or an impact has occurred.
- ▶ The operator should check the A1G for accuracy before precision levelling is attempted.
- ▶ The supplied charger is specific to this product. Do not purchase or use any other type of charger or power adaptor.
- ▶ Clean the instrument with a dry, soft cloth after use in dusty, damp or wet conditions before storing.
- ▶ Smudges and fingerprints may be removed with a damp tissue or a soft, lint-free cloth.

WARRANTY

The Powerline A1G comes with a 6 year manufacturers warranty.

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.

Separate to the above Australia Consumer Law, *Spot-on* offers a global warranty.

30 Day Free Service

If your laser is out of calibration within the first 30 days of purchase you are entitled to a free calibration adjustment. For more information please contact your retailer or *Spot-on*.

Customer Support

To assist you with any queries or technical questions please contact the customer support line: 1300 658 338

Operates 5 days a week: 8am - 5pm (EST)

SPECIFICATIONS

Specifications	Powerline A1G
Product code	50010
Warranty	6 Years
Accuracy	±1.5mm at 30m
Range	500m
Levelling range	±9% / ±5°
Laser class	3 Green
Battery life	20 hours
Battery type	4x C (sealed pack)
IP rating	65
Weight (kg)	2.00
Dimensions (mm)	195x200x150

www.spoton.com.au

