

Powerline

A6 Red Rotary Laser



INSTRUCTION MANUAL

SAFETY

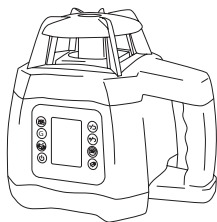
Please read this instruction manual before operating this product.
Please store this instruction manual in the carry case for future reference.

CAUTION: Class 2 Laser Product

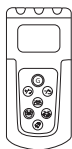
Do not stare directly into the laser beam from apertures.
Do not disassemble the instrument or attempt to perform any internal servicing as this will void your warranty. No user serviceable parts included.
Only approved and authorised service technicians can carry out warranty repairs.

ITEM CHECKLIST

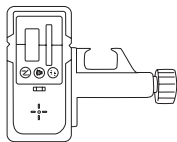
Please ensure the following items are included with your laser.
If anything is missing please contact your retailer.



Powerline A6



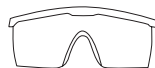
Remote control



Detector and clamp



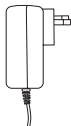
Laser target



Laser glasses



Carry case



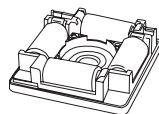
Charger



Rechargeable
battery pack

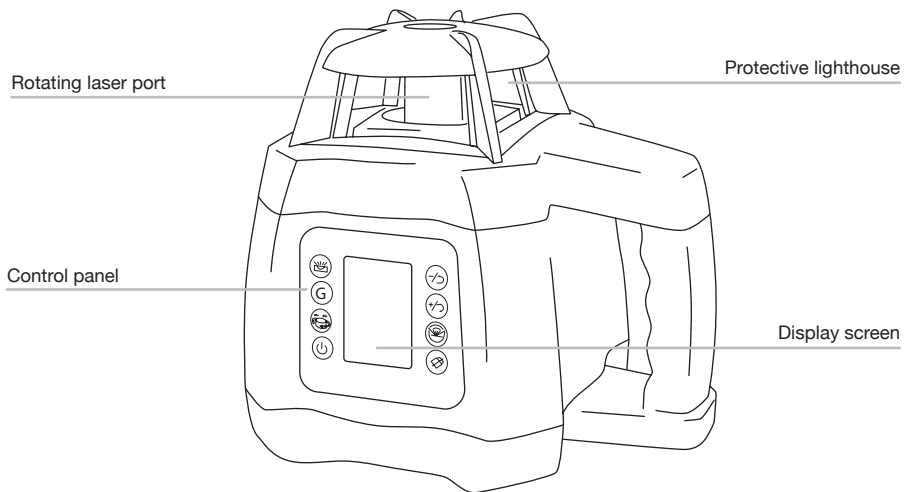


Car charger



Alkaline
battery pack

PRODUCT OVERVIEW



CONTROL PANEL

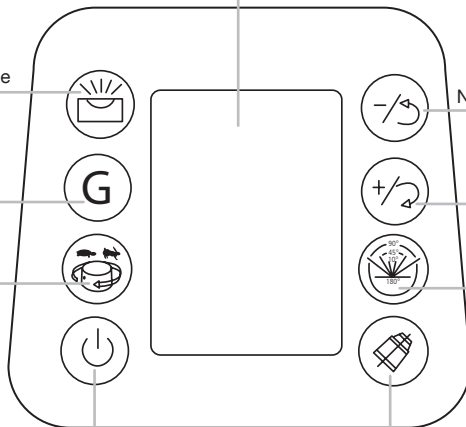
LCD display screen

Manual / automatic mode

Grade mode

Speed control

Power



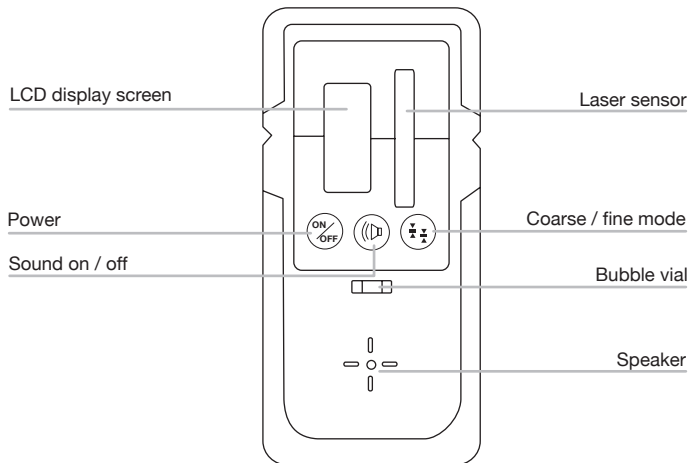
Negative / counter clockwise rotation

Positive / clockwise rotation

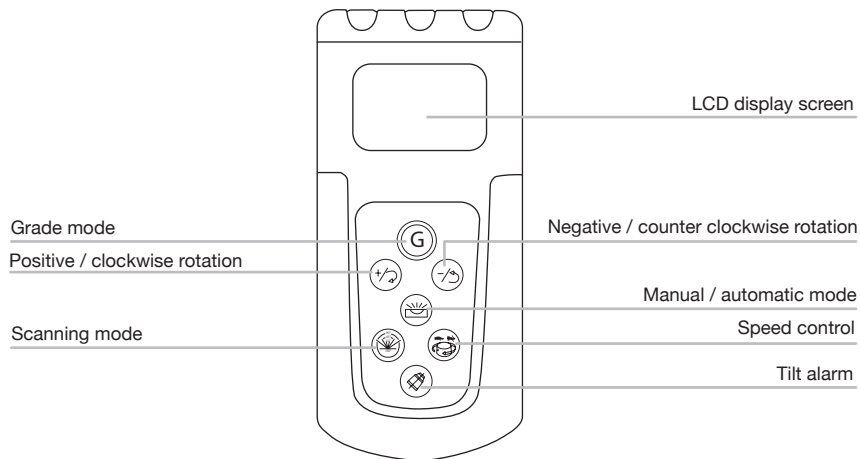
Scanning mode

Tilt alarm

DETECTOR CONTROL PANEL



REMOTE CONTROL PANEL



USING YOUR LASER

Power Supply

- ▶ The Powerline A6 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.

Horizontal Set 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.

Vertical Set Up

- ▶ Select a place as close as practical to the work site.
Ensure the location is clear of traffic.
- ▶ Place the laser onto a level surface with the control panel facing upwards.

Operation

- ▶ To turn the unit on press the *power* switch. 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 *positive / clockwise* or *negative / counter clockwise* button to change the rotation of the laser head.

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.

Setting up an automatic grade

- ▶ Once the unit has levelled off and started rotating you can begin a slope or grade automatically by pressing the *grade mode* button on the control panel or remote control.
- ▶ The screen on the unit will show both the X-axis and Y-axis percentages.

The X-axis will flash indicating it is ready for adjustment.

Adjusting the X-Axis

- ▶ The X-axis percentage can be adjusted by pressing the *positive* or *negative* buttons on the unit or remote control.
- ▶ Once the X-axis is set press the *grade mode* button again to switch to the Y-axis.

Adjusting the Y-Axis

- ▶ The Y-axis percentage can be adjusted by pressing the *positive* or *negative* buttons on the unit or remote control.
 - ▶ Once the Y-axis is set press the *grade mode* button again to confirm the grades. The laser will now adjust itself accordingly.
- ▶ To cancel out of grade mode press the *grade mode* button on the unit or remote control.
 - ▶ Grade mode can also be cancelled by turning the unit off and on again.

Setting up a manual grade

- ▶ Once the unit has levelled off and started rotating you can begin a slope or grade manually by pressing the *manual mode* button on the control panel or remote control.
- ▶ The screen on the unit will show both the X-axis and a hand symbol indicating that it is in manual mode.

Adjusting the X-Axis

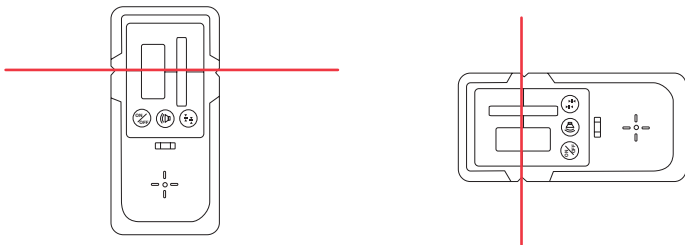
- ▶ The X-axis percentage can be adjusted by pressing the *positive* or *negative* buttons on the unit or remote control. This tilts the laser beam to the left or the right.
- ▶ Once the X-axis is set press the *manual mode* button again to switch to the Y-axis.

Adjusting the Y-Axis

- ▶ The Y-axis percentage can be adjusted by pressing the *positive* or *negative* buttons on the unit or remote control. This tilts the laser beam backwards or forwards.
 - ▶ To switch back to the X-axis press the *manual mode* button again.
- ▶ To cancel out of manual mode press and hold the *manual mode* button on the unit or remote control.
 - ▶ Manual mode can also be cancelled by turning the unit off and on again.

Using Your Detector

- ▶ Switch the detector on by pressing the *power* button. The speaker will beep once and the screen will turn on 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.
- ▶ Hold the detector upright for horizontal beams. Rotate the detector 90° for vertical beams.
- ▶ 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 grades automatically press the *grade mode* button. Press the negative and positive buttons to adjust the tilt of the beam. (See page 11)
- ▶ To create grades manually press the *manual / automatic mode* button to enter into manual mode. Press the *negative* and *positive* buttons to adjust the tilt of the beam. (See page 12)

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 3mm 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.
- Unit may be outside its self levelling range. Adjust the unit or tripod so it is level.

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.

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 A6 should be calibrated every 6 months, if ongoing accurate levelling is required or an impact has occurred.
- ▶ The operator should check the A6 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 A6 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

SPECIFICATIONS

Specifications	Powerline A6
Product code	50065
Warranty	6 Years
Accuracy	±1.5mm at 30m
Range	500m
Levelling range	±9% / ±5°
Laser class	2 Red
Battery life	20 hours
Battery type	4x C (sealed pack)
IP rating	65
Weight (kg)	2.05
Dimensions (mm)	195x200x150

www.spoton.com.au

