

# Powerline

## 3DG

### MULTI-LINE LASER




# I N S T R U C T I O N M A N U A L

# SAFETY

Read the following safety instructions before attempting to operate this product.

Keep these instructions in a safe place or store in the carry case for future reference.


## SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.


 **WARNING:** Read and understand all instructions.

- Use the laser only with the specifically designated batteries.
- Store the laser out of reach of children and other untrained persons. Lasers are dangerous in the hands of untrained users.
- Use only accessories that are recommended for your model.

- Tool service must be performed only by qualified repair personnel. Repairs, service or maintenance performed by unqualified personnel will void the warranty. Only approved and authorised service technicians can carry out warranty repairs.
- Do not use optical tools such as a telescope or transit to view the laser beam. Serious eye injury could result.
- Do not place the laser in a position which may cause anyone to intentionally or unintentionally stare into the laser beam. Serious eye injury could result.
- Do not position the laser near a reflective surface which may reflect the laser beam toward anyone's eyes. Serious eye injury could result.
- Do not use optical tools to view the laser beam.

- Do not set up the tool at a position where the laser beam can cross any person at head height.
- Do not let children come in contact with the laser.
- Turn the laser off when it is not in use. Leaving the laser on increases the risk of staring into the laser beam.
- Do not operate the laser around children or allow children to operate the laser. Serious eye injury may result.
- Do not remove or deface warning labels.
- Position the laser securely on a level surface. Damage to the laser or serious injury could result if the laser falls.

 **WARNING: DO NOT DISASSEMBLE THE LASER.** There are no user serviceable parts inside. Disassembling the laser will void all warranties on the product. Do not modify the product in any way. Modifying the tool may result in hazardous laser radiation exposure.

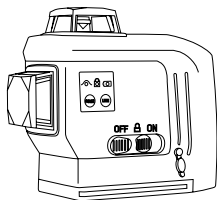
 **CAUTION: Class 3 Laser Product**

- Never look into the laser beam directly and intentionally.
- Do not use optical tools to view the laser beam.
- Do not set up the tool at a position where the laser beam can cross any person at head height.
- Do not let children come in contact with the laser.

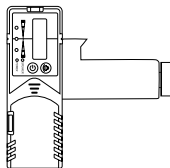
# ITEM CHECKLIST

Please ensure the following items are included with your laser level.

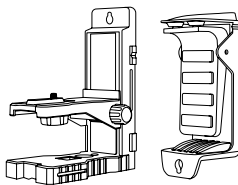
If anything is missing please contact your retailer.



Powerline 3DG



Detector & clamp



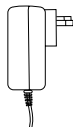
Multi-purpose mount  
(two piece)



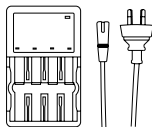
Laser glasses



Laser target



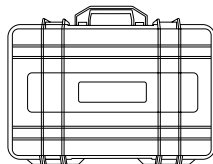
Mains power  
adaptor



Indoor lithium-ion  
charger (two piece)

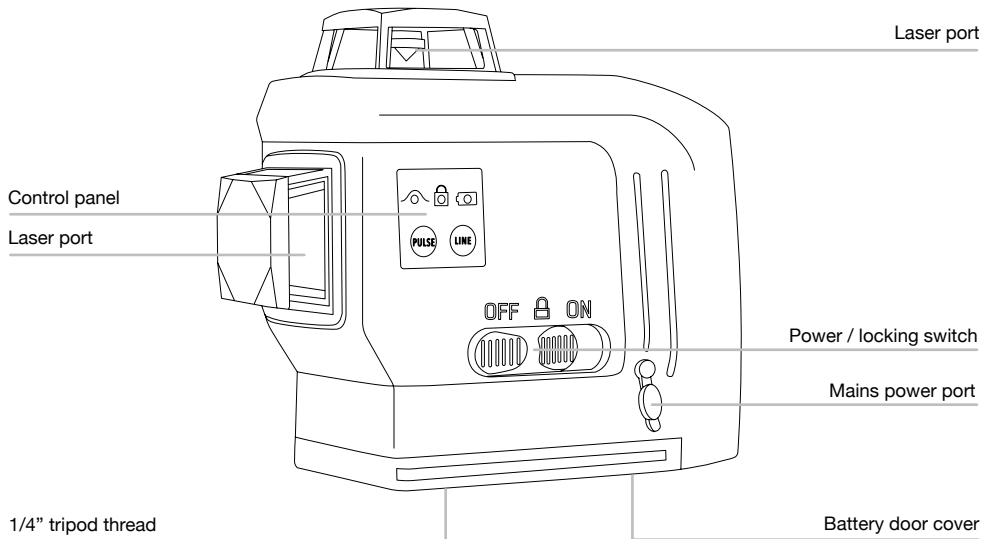


Rechargeable  
batteries

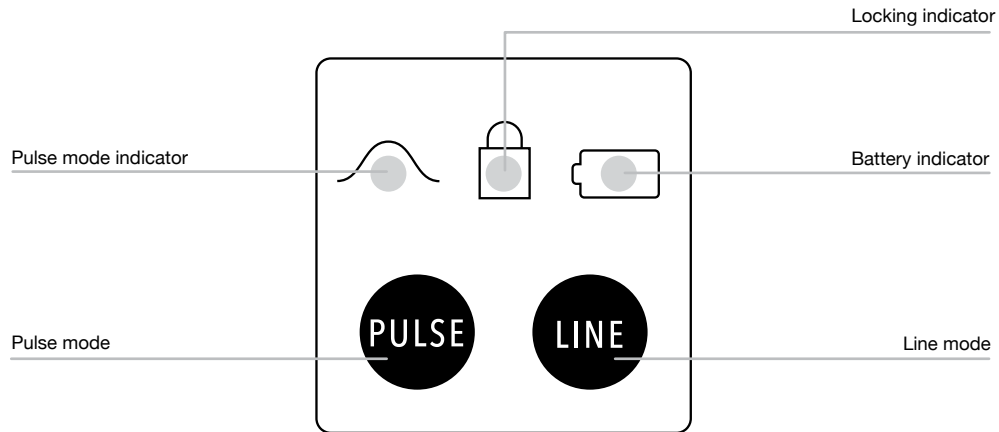


Carry case

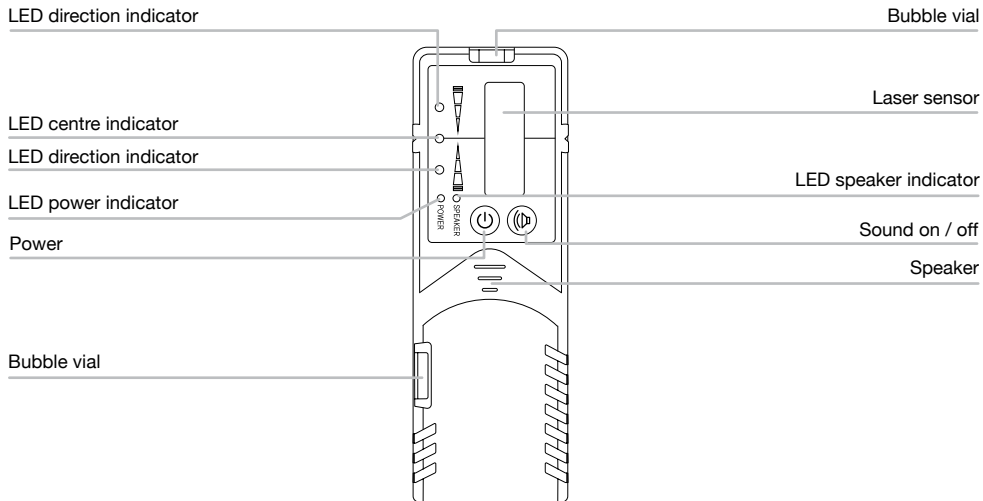
# LASER OVERVIEW



# LASER CONTROL PANEL



# DETECTOR OVERVIEW



# USING YOUR LASER

## POWER SUPPLY

- The instrument is supplied with four AA lithium-ion batteries as its standard power source.
- The instrument can also be powered by the mains power supply.

## Charging or replacing the Li-ion batteries

- Remove the battery cover door and the batteries.
- Insert the batteries into the indoor charger. The indoor charger can be powered via the supplied power cable or via the mains power adaptor. The indoor charger can also be powered via a micro USB cable (not supplied).

- The indoor charger will display progress on the charging LED indicators as below:

*Red* = Battery is charging

*Blue* = Battery is charged

- When fully charged, insert the batteries into the instrument according to polarity and replace the battery door.
- Do not store in locations where moisture can be present or where the charger could be exposed to extreme temperatures.

NOTE: The indoor charger is designed for lithium-ion batteries only. Do not attempt to charge Ni-Mh or alkaline batteries.



## INDOOR CHARGER OVERVIEW

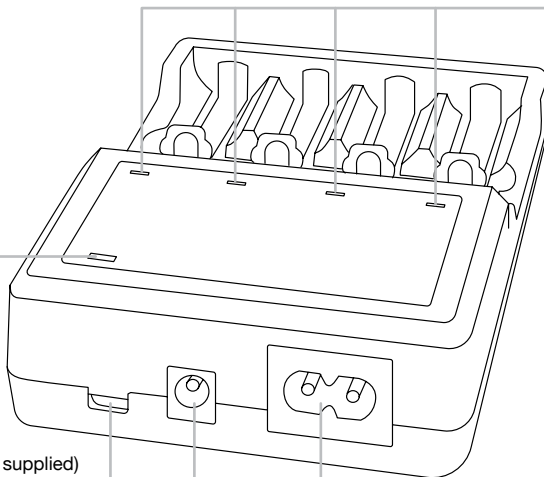
Charging LED indicators

Power LED indicator

Micro USB port (cable not supplied)

Mains power adaptor port

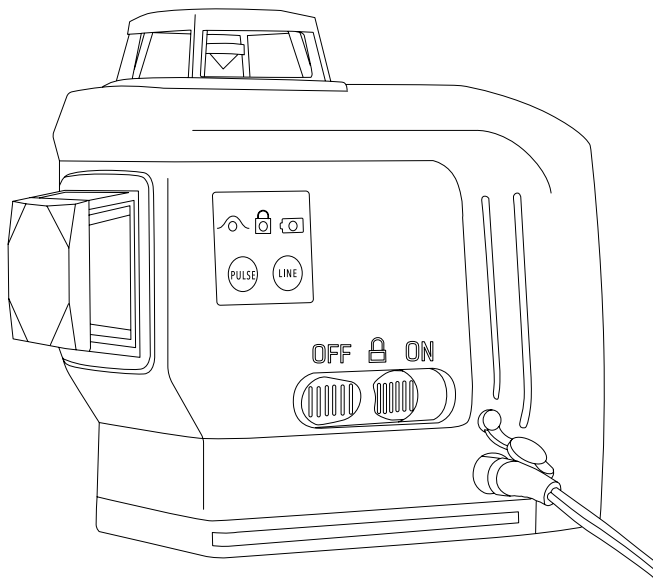
Power cable port



## **Mains power**

- The instrument can operate on mains power as an alternative to battery operation.
- Insert the mains power adaptor into the port and plug into a power source.
- Do not store in locations where moisture can be present or where the adaptor could be exposed to extreme temperatures.

NOTE: The mains power adaptor does not charge the batteries. (To charge the batteries, follow the procedure on page 8).



## SET UP

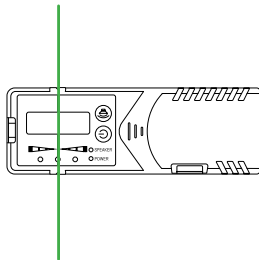
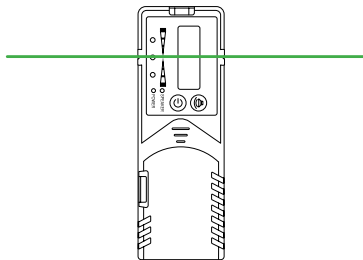
- Select a place as close as practical to the work site. Ensure the location is clear of traffic.
- Place the laser on a level surface such as a bench or mount.

## OPERATION

- To turn the instrument on, slide the power / locking switch to the “on” position. Self levelling will commence and all the beams will activate.
- If the instrument is outside the self levelling range the instrument will not level causing the laser beam to flash on and off repeatedly. If this occurs, reposition the instrument onto a level surface until the instrument can level off.
- Press the line mode button on the control panel to cycle through the active beams.
- To lock the beams in place, slide the power / locking switch to the ‘lock’ position. The instrument can now be tilted to the desired angle.

## USING YOUR DETECTOR

- Press the pulse mode button on the top of the instrument to enter into pulse mode.
- Switch the detector on by pressing the power button. The speaker will beep indicating the instrument is operating.
- 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 LED direction indicators will indicate the position of the laser beam. The centre LED will indicate alignment with the beam.



# MULTI-PURPOSE MOUNT OVERVIEW

Magnets

Clamp

Screw fixing point

Height adjustment lock knob

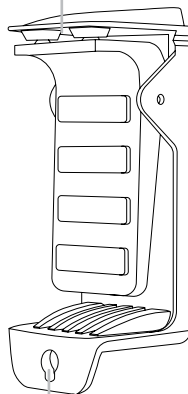
1/4" thread

1/4" thread thumb screw

5/8" thread

1/4" thread

Height adjustment knob

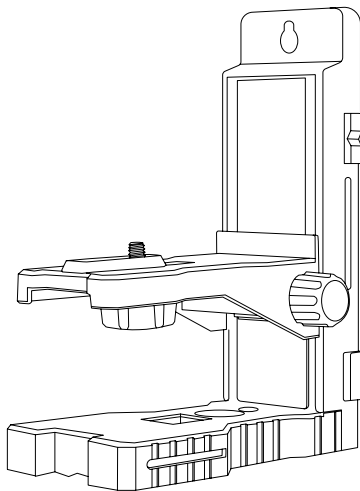


Screw fixing point

## USING THE MULTI-PURPOSE MOUNT

### Mounting onto a magnetic surface

- Attach the instrument to the mount using the thumb screw.
- Attach the mount to a metal surface, ensuring that the mount has a strong hold before releasing your hands.
- To adjust the height of the instrument, unlock the height adjustment knob. Rotate the height adjustment knob to raise or lower the instrument to the desired height. Retighten the height adjustment lock knob to secure in place.
- To rotate the instrument on the mount, loosen the mini thumb screw, position the instrument, and then re-tighten the thumb screw.



## USING THE MULTI-PURPOSE MOUNT

### Mounting via the clamp

- Attach the two mount pieces together via the magnetic backing.
- Attach the instrument to the mount using the thumb screw.
- Use the clamp to mount to a suspended ceiling track, ensuring that the mount has a strong hold before releasing your hands.
- To adjust the height of the instrument, unlock the height adjustment knob. Rotate the height adjustment knob to raise or lower the instrument to the desired height. Retighten the height adjustment lock knob to secure in place. Alternatively, slide the mount on the magnetic backing.
- To rotate the instrument on the mount, loosen the mini thumb screw, position the instrument, and then re-tighten the thumb screw.



### **Mounting via screw fixing points**

- Attach the instrument to the mount using the thumb screw.
- Fix a screw into a secure surface and hook the mount over the screw. Ensuring that the mount has a strong hold before releasing your hands.
- To adjust the height of the instrument, unlock the height adjustment knob. Rotate the height adjustment knob to raise or lower the instrument to the desired height. Retighten the height adjustment lock knob to secure in place.
- To rotate the instrument on the mount, loosen the mini thumb screw, position the instrument, and then re-tighten the thumb screw.

### **Mounting onto a tripod**

- Attach the mount onto the tripod via the 5/8" or 1/4" thread.
- Attach the instrument to the mount using the thumb screw.
- To adjust the height of the instrument, unlock the height adjustment knob. Rotate the height adjustment knob to raise or lower the instrument to the desired height. Retighten the height adjustment lock knob to secure in place.
- To rotate the instrument on the mount, loosen the mini thumb screw, position the instrument, and then re-tighten the thumb screw.

# TROUBLE SHOOTING

| Error  | Cause & Solution  |
|--|---|
| <b>Laser does not turn on</b>                            | <ul style="list-style-type: none"><li>▪ Check the batteries. They may be in the wrong way or need replacing.</li><li>▪ Check the battery compartment for signs of damage. Ensure they are clean and not bent.</li></ul>                     |
| <b>Laser does not remain on for long periods of use.</b> | <ul style="list-style-type: none"><li>▪ Check the batteries.</li><li>▪ Check the battery compartment for signs of damage. Ensure they are clean and not bent.</li></ul>   |
| <b>Laser does not level off</b>                          | <ul style="list-style-type: none"><li>▪ Instrument may be outside its self levelling range. Adjust the instrument or tripod so it is level.</li><li>▪ Instrument may have low power.</li><li>▪ Instrument may have impact damage.</li></ul> |

# CARE AND MAINTENANCE

- This is a precision measuring instrument and should always be handled with care and transported within the carry case provided.
- Always slide the power switch to the “off” position when transporting the instrument or moving around the job site.
- Whenever possible, store the instrument in a dry, shady location.
- Calibration of the instrument is recommended: every six months, if ongoing accurate levelling is required, or an impact has occurred.

- The operator should check the accuracy of the instrument before precision levelling is attempted. Failure to do so may result in inaccurate measurements.
- 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 3DG comes with a 6 (six) year manufacturers warranty.**

## AUSTRALIA

“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.”

For more information please visit  
[consumerlaw.gov.au](http://consumerlaw.gov.au)

## NEW ZEALAND

For more information please visit  
[consumerprotection.govt.nz](http://consumerprotection.govt.nz)

# CUSTOMER SUPPORT

To assist you with any queries or technical questions please contact customer support

**Australia: 1300 658 338**

**New Zealand: 0800 367 527**

# SPECIFICATIONS

| Specifications   | Powerline 3DG             |
|------------------|---------------------------|
| Product code     | 50184                     |
| Warranty         | 6 Years                   |
| Accuracy         | $\pm 1.5\text{mm}$ at 10m |
| Operating range  | 60m (with detector)       |
| Levelling range  | $\pm 4^\circ$             |
| Laser class      | 3 Green                   |
| Battery life     | 5 hours                   |
| Battery type     | 4x 3.7v AA Li-ion         |
| Vertical lines   | 2                         |
| Horizontal lines | 1                         |
| IP rating        | 54                        |
| Weight (kg)      | 0.70                      |
| Dimensions (mm)  | 165 x 85 x 127            |





[www.spoton.com.au](http://www.spoton.com.au)