TML-3DGS
MULTI-LINE LASER

GENERAL
TITANIUM SERIES

INSTRUCTION MANUAL

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.

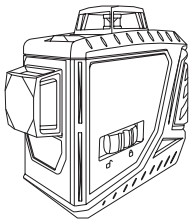
There are no user serviceable parts inside. Disassembling the laser will void all warranties on the product. Do not modify the product in any way. Modifying the tool may result in hazardous laser radiation exposure.

⚠ CAUTION: Class 2 Laser Product

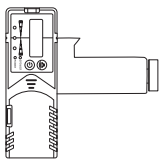
- Never look into the laser beam directly and intentionally.
- Do not use optical tools to view the laser beam.
- Do not set up the tool at a position where the laser beam can cross any person at head height.
- Do not let children come in contact with the laser.

ITEM CHECKLIST

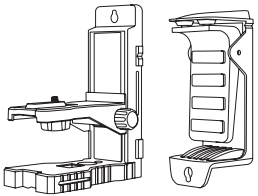
Please ensure the following items are included with your laser level.
If anything is missing please contact your retailer.



General Titanium
Series TML-3DGS



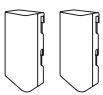
Hybrid detector
& clamp



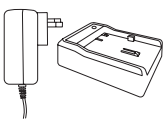
Multi-purpose mount
(two piece)

Laser target

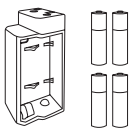
Laser glasses



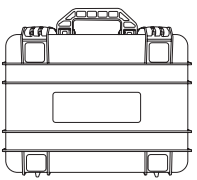
Li-ion battery
pack (x2)



Indoor charger
& charging adaptor

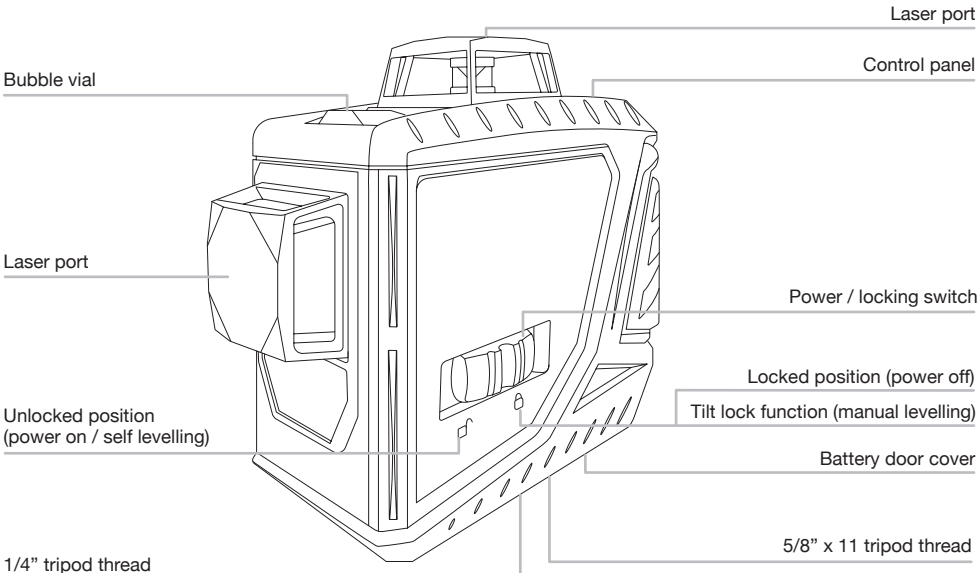


Alkaline batteries
& battery tray

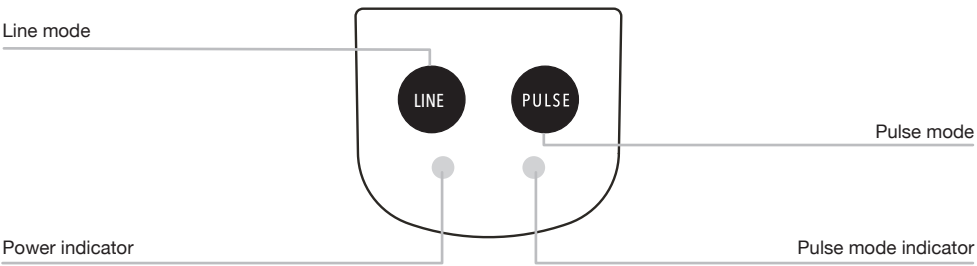


Carry case

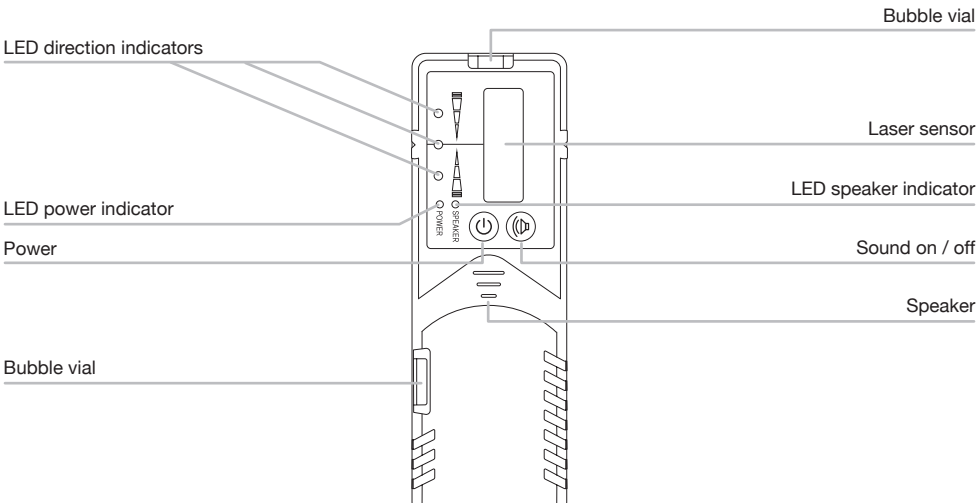
LASER OVERVIEW: FRONT



LASER OVERVIEW: CONTROL PANEL



DETECTOR OVERVIEW: FRONT



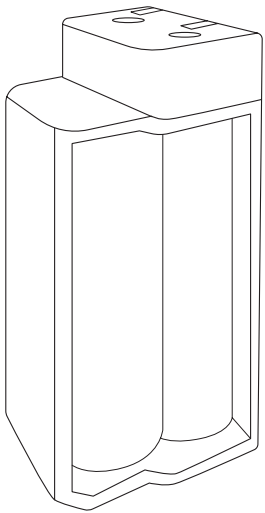
USING YOUR LASER

POWER SUPPLY

- The instrument is supplied with two li-ion battery packs as its power source.
- The instrument is also supplied with four AA Ni-Mh batteries as an alternative power source.

Inserting or replacing the alkaline batteries

- Insert the alkaline batteries into the battery tray according to polarity.
- Open the battery cover door and insert the battery tray.
- Close the battery door.



Charging the li-ion battery pack

- Insert the charger into the charging adaptor. Connect the li-ion battery onto the charging adaptor. Plug the charger into a power source.
- Progress will be shown by the power indicator display on the charging adapator as below:

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

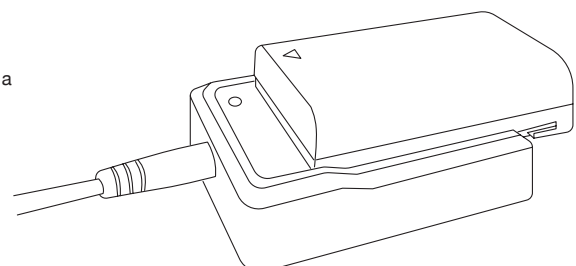
Red (constant) = Battery is charging

Green (constant) = Battery is charged

- Charging time is approximately 3-4 hours for a depleted battery.

Inserting & removing the li-ion battery pack

- Open the battery cover door and insert the battery tray.
- Insert the li-ion battery pack and close the battery door.



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

Powering on (self levelling)

- To turn the instrument on, slide the ***power / locking switch*** to the ***"unlocked"*** position. Self levelling will commence and the horizontal beam will activate.
- Press the ***line mode*** button on the control panel to cycle through the active beams.
- 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.

Powering off (self levelling)

- To turn the instrument on, slide the ***power / locking switch*** to the ***"locked"*** position.

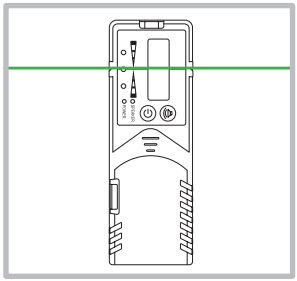
Tilt lock function (manual mode)

- Ensure the ***power / locking switch*** is in the ***"locked"*** position.
- Press and hold the ***line mode*** button for 3 seconds. The horizontal line will activate.
- The instrument can now be tilted to the desired angle.
- Press the ***line mode*** button on the control panel to cycle through the active beams.
- To turn off the beams, press the ***line mode*** button until all beams are off.

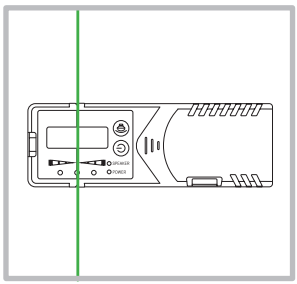
When in tilt lock function (manual mode) the instrument will **not** self level and correct for vibrations and/or disturbances.

USING YOUR DETECTOR

- Press the ***pulse mode*** button on the top of the instrument to enter into pulse mode. The ***pulse mode indicator*** LED will light up.
- 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.

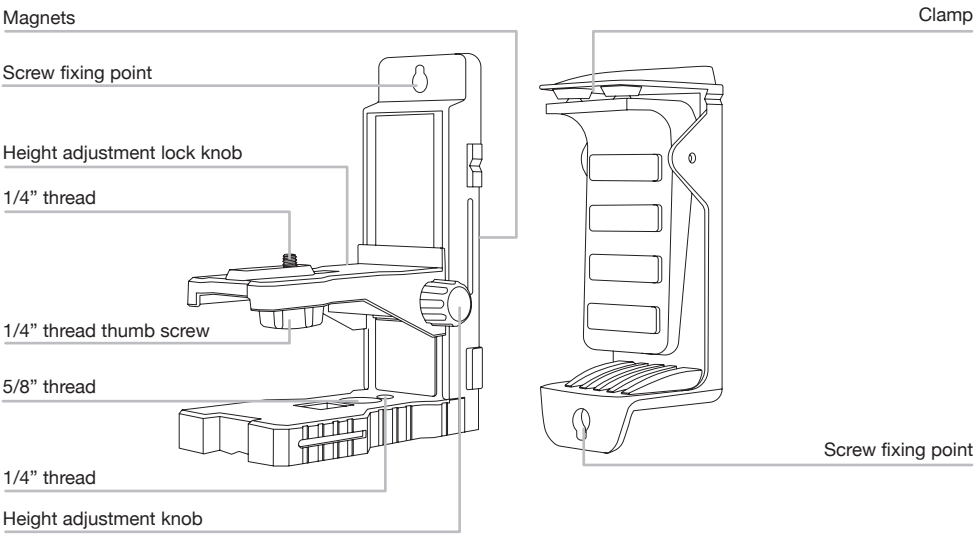


Detector position for horizontal beams



Detector position for vertical beams

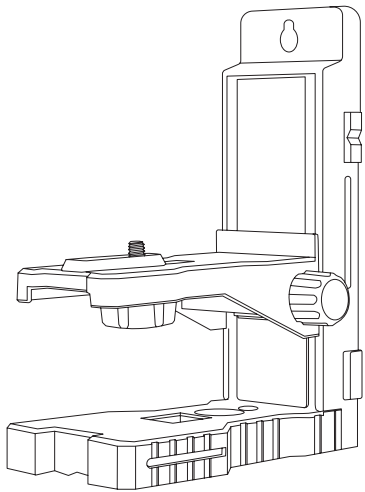
MULTI-PURPOSE MOUNT OVERVIEW



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 *(continued)*

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***.

USING THE MULTI-PURPOSE MOUNT *(continued)*

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***.

The instrument can also be mounted onto a tripod without using the multi-purpose mount via the 1/4" thread or 5/8" x 11 thread on the base of the instrument.

TROUBLE SHOOTING

Error	Cause & Solution
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.
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.
Laser does not level off	• Instrument may be outside its self levelling range. • Adjust the instrument or tripod so it is level. • Instrument may have impact damage.

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 / locking switch*** to the ***"locked"*** position when transporting the instrument or moving around the job site.
- Reflective surfaces such as glass may reflect the laser beam, causing two beams to strike the detector at the same time. This may result in inaccurate reference points.
- 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

3 YEAR STANDARD WARRANTY PERIOD

1. The warranty period for your tool is 3 years from the date of purchase.
2. The warranty period for batteries, battery packs and chargers is 1 year from the date of purchase.
3. Calibrations are not covered under warranty as they are deemed wear and tear.
4. All products have a standard warranty period, you do not have to register your products to obtain the standard warranty period.
5. To claim under this warranty, the date of purchase of the tool must be documented by an invoice/ receipt.

7 YEAR EXTENDED WARRANTY PERIOD

1. The extended warranty is available on selected tools only.
2. You may extend the warranty period for your tool to 7 years from the date of purchase. This excludes batteries, battery packs and chargers.
3. Calibrations are not covered under warranty as they are deemed wear and tear.
4. To obtain the extended warranty, the registration process must be completed within 30 days from the date of purchase.
5. Failure to register your product online and/or submission of a valid invoice/receipt will void the warranty extension.
6. Please ensure ALL information submitted/ uploaded is correct.
7. Extended warranty is ONLY available via online registration, offline (mailing in of warranty registration) will not be accepted.

WARRANTY (continued)

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

New Zealand

For more information please visit 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	TML-3DGS
Product code	88570
Warranty	7 Years*
Accuracy	±1.5mm at 10m
Operating range	60m (with included detector)
Levelling range	±4°
Laser class	2 Green
Battery life	10 hours+
Battery type	Li-ion battery pack / 4x 1.5V AA
Vertical lines	2
Horizontal lines	1
IP rating	54
Weight (kg)	0.8
Dimensions (mm)	150 x 75 x 125

*With online registration. Please refer to page 17 for details.

NOTES

www.spoton.com.au