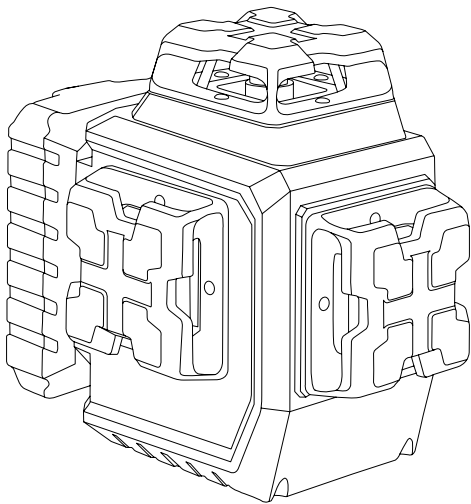


# GENERAL

## ML-3DXG MULTI-LINE LASER LEVEL

Product Code: GML3DXGKT



# INSTRUCTION MANUAL

# Laser Safety

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

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



## **WARNING! SAVE ALL WARNINGS & INSTRUCTIONS FOR FUTURE REFERENCE.**

Read and understand all instructions.

- Use the tool only with the specifically designated batteries.
- Store the tool out of reach of children and other untrained persons. Laser tools 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 tool 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 tool near a reflective surface which may reflect the laser beam toward anyone's eyes. Serious eye injury could result.
- 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 tool.
- Turn the tool off when it is not in use. Leaving the tool on increases the risk of staring into the laser beam.
- Do not operate the tool around children or allow children to operate the tool. Serious eye injury may result.
- Position the tool securely on a level surface. Damage to the laser or serious injury could result if the laser falls.
- Do not remove or deface warning labels.



## **WARNING!**

**DO NOT DISASSEMBLE THE LASER.**

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



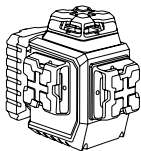
## **CAUTION!**

**CLASS 2 LASER PRODUCT**

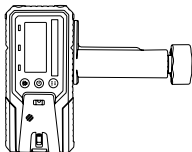
- Never look into the laser beam directly and intentionally.
- Do not use optical tools to view the laser beam.
- Do not set up the tool at a position where the laser beam can cross any person at head height.
- Do not let children come in contact with the laser.

# Item Checklist

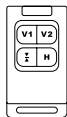
Please ensure the following items are included with your laser level.  
If anything is missing please contact your retailer.



General  
ML-3DXG



General ML-D6HM  
detector & clamp



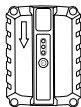
General ML-BA6700  
remote control



Laser glasses  
(green)



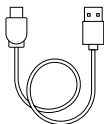
Laser target  
(green)



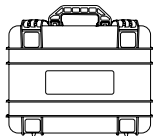
Lithium-ion  
battery pack



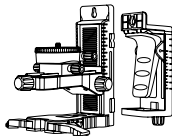
4x AAA alkaline  
batteries (detector)



USB-C to USB-A cable



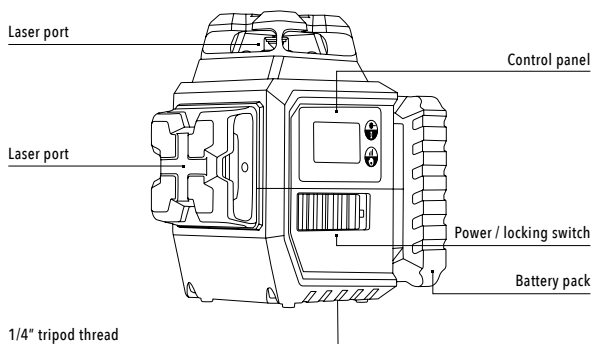
Hard carry case



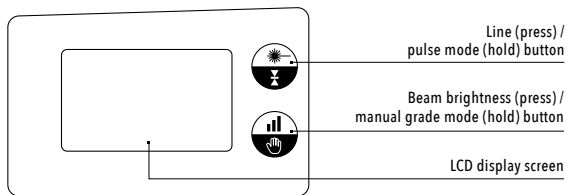
Multi-purpose  
mount

**ML-3DXG KIT**

# Using the Laser

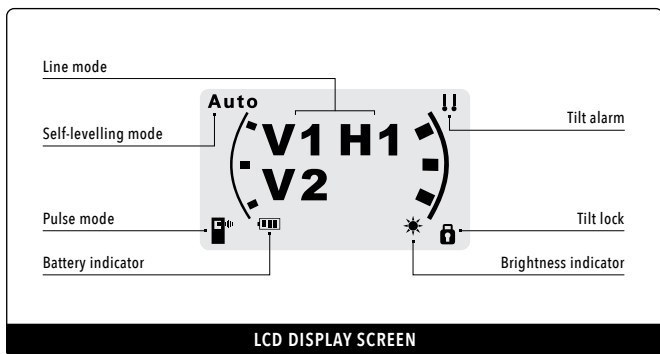


## OVERVIEW

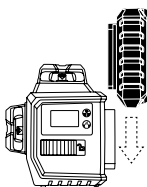


## CONTROL PANEL

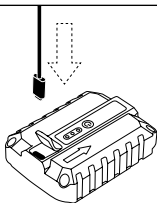
## Using the Laser (continued)



## Using the Laser (continued)



**FIGURE 1**



**FIGURE 2**

### POWER SUPPLY

- The laser level is supplied with one lithium-ion battery pack as its standard power source.

#### *Inserting & removing the Li-ion battery pack*

- Slide the lithium-ion battery pack onto the laser level with the power terminals facing downwards and ensure that it is firmly seated in place (Fig.1).

#### *Charging the Li-ion battery pack*

- Insert the charging cable into the USB-C charging port on the battery pack (Fig.2).
- Progress will be shown by the power indicator display on the battery.
- The time required to charge the battery can vary depending on factors such as remaining battery charge and ambient temperatures.

### SETUP

- 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 supplied mount.

## Using the Laser (continued)

### OPERATION

#### Powering on (self-levelling)

- To power on the laser level, slide the **locking switch** from the locked position to the unlocked position (Fig.3). The laser level will power on and the horizontal laser beam will activate (Fig.4).
- Press the **line / pulse mode** button on the control panel to cycle through the active beams (Fig.5).
- If the laser level is outside the self-levelling range the laser level will not level causing the laser beam to flash on and off repeatedly. If this occurs, reposition the laser level onto a level surface until the laser level can level off.

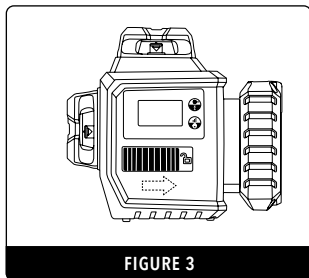


FIGURE 3

#### Powering off (self-levelling)

- To turn the laser level off, slide the **locking switch** to the locked position.

#### Tilt lock function (manual mode)

- Ensure the **locking switch** is in the locked position.
- Hold the **manual mode** button on the laser level for approximately 3 (three) seconds. The laser level will power on and the horizontal laser beam will activate.
- The laser level can now be tilted to the desired angle.
- Press the **line / pulse mode** button on the control panel to cycle through the active beams.

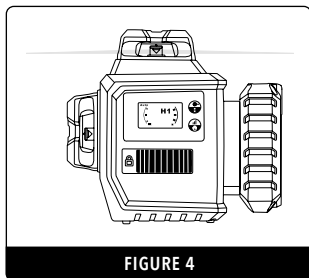




FIGURE 4

-  When in tilt lock function (manual mode) the instrument will not self level and correct for vibrations and / or disturbances.
-  Active laser beams will flash approximately every 4 (four) seconds when in manual mode.

#### Changing the laser beam brightness

- Press the **beam brightness mode** button to cycle through the three laser beam intensities.

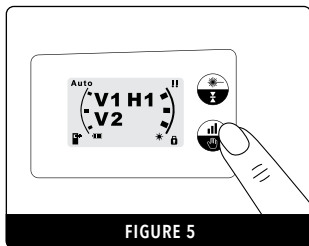
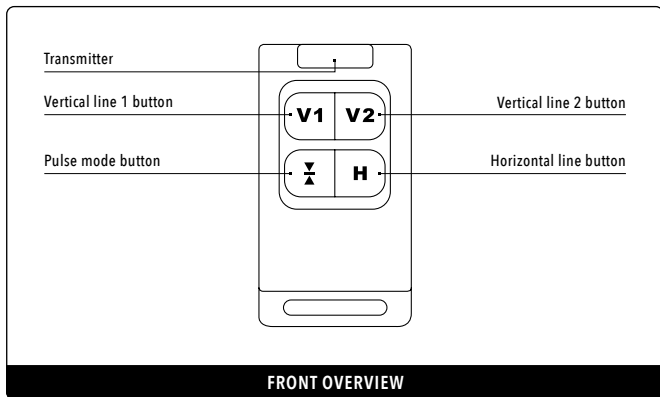


FIGURE 5

# Using the Remote Control



## REMOTE CONTROL OPERATION

### Power supply

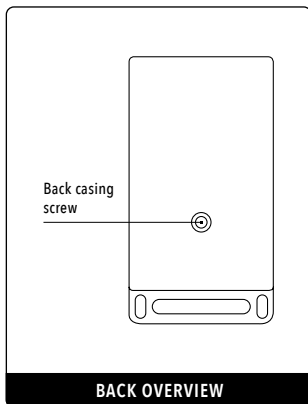
- The remote is powered by one 27A 12V alkaline battery.

### Removing & inserting the alkaline battery

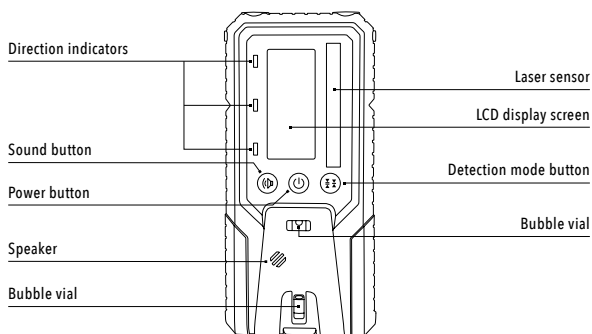
- Remove the rear screw (a tool is required), back casing and the battery.
- Insert the new alkaline battery according to polarity and replace the back casing and screw.

### Operating the remote control

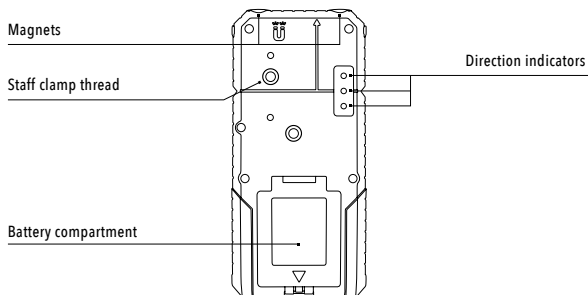
- Ensure the laser level is turned on and within the operating range of the remote control.
- Press the *pulse mode* button to activate pulse mode on the laser.
- Press the *V1*, *V2* and *H* buttons to activate the corresponding beams.



# Using the Detector

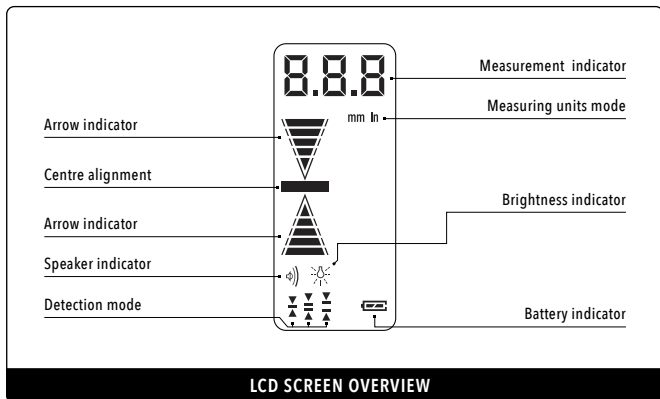


**FRONT OVERVIEW**



**BACK OVERVIEW**

## Using the Detector (continued)



### POWER SUPPLY

- The detector is powered by four AAA alkaline batteries.

#### **Removing & inserting the alkaline battery**

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

### SET UP

#### **Mounting the staff clamp**

- Insert the staff clamp screw into the staff clamp thread.
- Rotate the thumb screw until the clamp is secured in place.

## Using the Detector (continued)

### OPERATION

#### Powering on

- Power on the detector by pressing the **power** button. The LCD screen will turn on and the speaker will emit a small tone to indicate the instrument is operating.
- The LCD screen will display the battery level, detection mode and speaker function.

#### Speaker function

- To change the speaker volume or turn the speaker off, press the speaker button.

#### Detection mode

- To change between broad, coarse and fine mode press the detection mode button.

#### Operation with a multi-line laser level

- Power on the laser level.
- Activate the pulse mode function by pressing and holding the line / pulse mode button on the laser level for approximately 3 (three) seconds. Alternatively, press the pulse mode button on the remote control when it is within its operating range.
- Move the detector into the path of the laser beam.
- Hold the detector upright for horizontal beams (Fig.6) or rotate 90° for vertical beams (Fig. 7).
- The direction arrows or level line on the LCD screen will indicate the position of the laser beam. The digital display will indicate a millimetre reading of the adjustment required (Fig.6 & 7). The detector will emit a constant beep once the level position has been located.

#### LCD screen backlight

- Ensure that the detector is turned on, then press the power button to turn on and off the backlight for the LCD screen.

#### Measurement unit function

- Press and hold the detection mode button for approximately 3 (three) seconds to change the units of measurement between millimetres and inches.

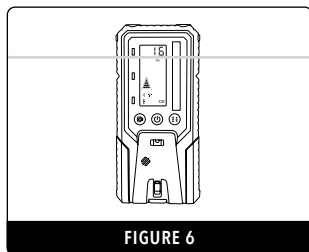


FIGURE 6

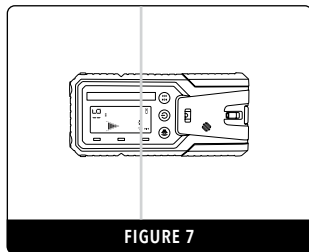
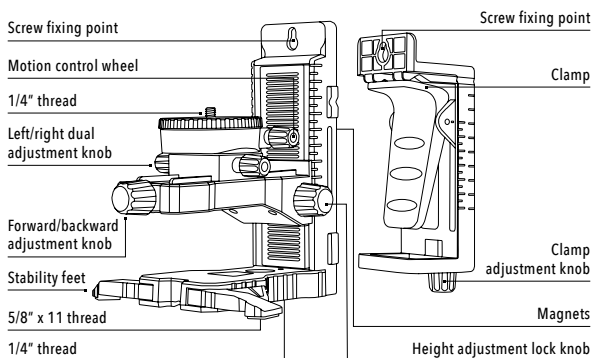


FIGURE 7

# Using the Multi-purpose Mount



## OVERVIEW

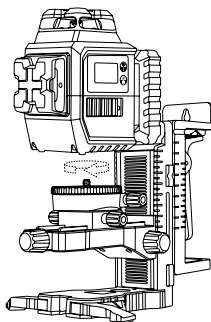


FIGURE 8

### Attaching the laser level

- Attach the laser level to the mount by rotating on the circular mounting point with the 1/4" thread (Fig.8).
- The mount features multiple ways of adjustment in X, Y and Z axis directions, as well as a fine rotation that can be adjusted using the red thumb screws.
- Deploy the front stabilising feet on the multi-purpose mount when working on flat surfaces such as floors and bench tops (Fig.8).

## Using the Multi-purpose Mount (continued)

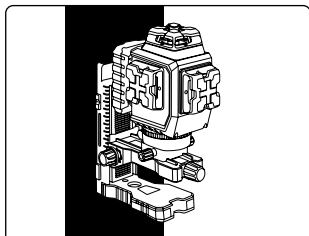


FIGURE 9

### Mounting to a magnetic surface

- Remove the rear mounting adapter piece from the multi-purpose mount to expose the magnets.
- Attach the magnets side of the multi-purpose mount onto a suitable surface ensuring that both the surface and magnets are clean and free of debris for a strong magnetic hold (Fig.9).

### Mounting using the clamp attachment

- Attach the two mount pieces together with the clamp facing upwards on the rear mounting adapter piece (Fig.10).
- Use the clamp to attach the mount onto the suspended ceiling track ensuring that it is securely attached and held in place before removing your hold.

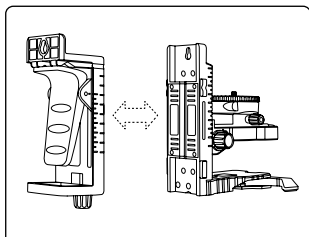


FIGURE 10

### Mounting via screw fixing points - Method 1

- Attach the two mount pieces together with the clamp facing upwards on the rear mounting adapter piece (Fig.10).
- 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.
- This method allows the magnetic piece to slide up and down for added height adjustment flexibility.

### Mounting via screw fixing points - Method 2

- Remove the rear mounting adapter piece if attached (Fig.11).
- Fix a screw into a secure surface and hook the mount over the screw using the screw hole at the top of the mount. Ensuring that the mount has a strong hold before releasing your hands.

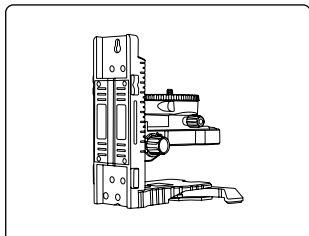


FIGURE 11

# Using the Tripod

NOT INCLUDED



A tripod can be purchased from your nearest measurement tool dealer. The below instructions are generic only and set-up methods may vary between models. Refer to the documentation from the tripod manufacturer for details.

- Extend the tripod legs to the required height and ensure the legs are spread wide enough so that the tripod platform is stable. Secure the legs in place (refer to the documentation from the tripod manufacturer for details).
- Place the laser level onto the tripod and mount via the male thread (5/8" or 1/4") into the base until firm. Do not over tighten as this may cause damage to the laser level or tripod.

**NOTE:** adjustment methods will vary on tripod models. Always ensure that any locking levers are unlocked before making adjustments and returned to the locked position when the adjustment is complete.

If using an elevating tripod with a measuring scale on the centre column, the height can be adjusted as required.



**WARNING!** Attaching the laser to a tripod without the correct thread size may cause damage.

## Care & Maintenance

1. This is a precision measuring tool and should always be handled with care and transported within the carry pouch provided.
2. Always turn the tool off when transporting the laser level or moving around the job site.
3. Whenever possible, store the tool in a dry, shady location.
4. When the tool is not in use or is being stored, it is highly recommended to remove the batteries.
5. Calibration of the tool is recommended every six months, if ongoing accurate levelling is required, or an impact has occurred.
6. The operator should check the accuracy of the tool before precision levelling is attempted. Failure to do so may result in inaccurate measurements.
7. Clean the tool with a dry, soft cloth after use in dusty, damp or wet conditions before storing.
8. Smudges and fingerprints may be removed with a damp tissue or a soft, lint-free cloth.

# Trouble Shooting

ERROR / PROBLEM	CAUSE / SOLUTION
<b>The laser level does not power on</b>	<ul style="list-style-type: none"><li>• Check the battery pack. It may require charging or need to be replaced. Battery cells only have a finite lifespan and will degrade over time, including from charging and discharging.</li><li>• Check the power terminals on the battery pack and ensure that they are clean and free from any damage and / or corrosion.</li><li>• Check the power terminals on the laser level and ensure that they are clean and free from any damage and / or corrosion.</li></ul>
<b>The laser level does not remain on for long periods of use</b>	<ul style="list-style-type: none"><li>• Check the battery pack. It may require charging or need to be replaced. Battery cells only have a finite lifespan and will degrade over time, including from charging and discharging.</li><li>• Check the power terminals on the battery pack and ensure that they are clean and free from any damage and / or corrosion.</li><li>• Check the power terminals on the laser level and ensure that they are clean and free from any damage and / or corrosion.</li></ul>
<b>The laser level does not self-level</b>	<ul style="list-style-type: none"><li>• The laser level may be outside of its self-levelling range and may require a repositioning before self-levelling can commence.</li><li>• The laser level may have been subjected to shock or impact damage that has affected the internal levelling system.</li></ul>
<b>The detector / remote control does not power on</b>	<ul style="list-style-type: none"><li>• Check the batteries. They may need to be replaced.</li><li>• Check the power terminals inside the battery compartment (a tool is required to open for the remote control) and ensure that they are clean and free from any damage and / or corrosion.</li></ul>
<b>The detector does not detect the laser beam</b>	<ul style="list-style-type: none"><li>• Check to ensure that the detector is powered on.</li><li>• Check to ensure that the pulse mode function has been activated on both the laser level and the detector.</li><li>• Check to ensure that the detector is being operated within the detectors operating range.</li><li>• Check to ensure that no laser beam is being reflected back from the opposite direction from surfaces such as glass or other highly reflective materials. These reflective beams can interfere with the detection of the true laser beam and / or cause false detection readings.</li></ul>

If the above troubleshooting steps do not resolve any issue that you may have, please contact 24-hour support.

# Warranty

This tool comes with a standard 3 year warranty. Extend the warranty of your laser level to 7 years by registering online. See website for terms and conditions.

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

All Spot-on measurement tools are carefully checked and tested to our precise quality assurance standards. We offer a warranty in accordance with the following conditions:

1. Our warranty provides the correction of deficiencies to the tool once verified by an authorised service centre that the deficiencies were caused by a manufacturing fault within the warranty period.
2. The standard warranty period is 3 years from the date of purchase. The warranty period can be extended to 7 years upon registration of the tool within 30 days of purchase.
3. The warranty does not cover:
  - a) Calibrations and components that are subject to wear and tear.
  - b) Defects in the tool caused by non-compliance with the operation instructions, improper use, abnormal environmental conditions, inappropriate operating conditions or insufficient maintenance.
  - c) Defects caused by using accessories or spare parts other than approved parts.
  - d) Services or repairs carried out by non-authorised persons.
4. Defects recognised by an authorised service centre as being covered by the warranty shall be corrected either by repair or replacement of the tool.
5. The warranty claim must be lodged within the warranty period. This requires the complete tool with the original sales receipt containing the purchase date and place of purchase. Partial or disassembled tools cannot be submitted for a warranty claim.

6. Services provided under warranty do not lengthen or renew the warranty of the tool.

"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  
[www.consumerlaw.gov.au](http://www.consumerlaw.gov.au)

## 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.

## *Warranty (continued)*

### **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.

# Specifications

<b>Product code</b>	<b>GML3DXGKT</b>
<b>Warranty</b>	7 Years (with online registration)
<b>Accuracy</b>	±1.5mm at 10m
<b>Operating range</b>	25m (60m with included detector)*
<b>Levelling range</b>	±3.5°
<b>Laser class</b>	2 Green
<b>Battery life (per battery pack)</b>	12 hours (max)
<b>Battery type</b>	Lithium-ion battery pack (3.7V, 6700mAh)
<b>Vertical lines</b>	2
<b>Horizontal lines</b>	1
<b>IP rating</b>	54
<b>Weight (kg)</b>	0.80 (inc. battery)
<b>Dimensions (mm)</b>	145 x 90 x 130

\*Maximum operating range can only be achieved in ideal light conditions.  
Sunlight and other ambient light sources can significantly impact the visibility of the laser beams.

## Customer Support

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

**1300 658 338**

Visit [www.spoton.com.au](http://www.spoton.com.au) for more information.

## Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



**Spot-on Laser & Tool Company Pty Ltd**

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