



METSYS ML3 Multiline Laser User Manual

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**ML3 Multiline Laser
User Manual**



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INTRODUCTION

The Metsys ML3 / ML3G is part of the line laser range, with a lock switch on the side of the unit to avoid any pendulum damage when transporting the unit as well as it is an on and off switch making the unit easy to use and operate. The simple one-button keypad allows you to move between the vertical laser beams while also allowing you to have both beams on at one time, there is a Pulse mode that allows this line laser to be used with a

Receiver giving double the Working range. The vertical beams span over 180°being ideal for (Carpentry, Cabinet makers, tilers, etc. This unit is easy to use, small in size making it easy to transport, and it has the added ability of a magnetic bracket and tripod thread availability

FEATURES

1. Operation Button
2. Vertical Laser Windows (V1/V2)
3. Horizontal laser window
4. Plumbing Laser Window
5. Main switch button
6. 1/4"-20 threaded mount
7. Battery cover
8. Laser control button (Press for lines / Hold for pulse model).

PRODUCT SPECIFICATIONS

FEATURE	ML3	ML3G
Wave Length -Line	635-660nm	510-520nm
Laser Class	Class II	Class II
Leveling Accuracy	± 3mm / 10m	± 3mm / 10m
Horizontal / Vertical Accuracy	± 3mm / 10m	± 3mm / 10m
Plumb Dot Accuracy	± 1.4mm / 1m	± 1.4mm / 1m
Levelling Range	± 3.5°	± 3.5°
Operation Temperature	0°C ~ 45°C	0°C ~ 45°C
Storage Temperature	-20°C ~60°C	-20°C ~60°C
Operating Time- AA Batteries	Approx. 8hrs	Approx. 3hrs
– Rechargeable Battery	N/A	Approx. 7hrs
Working Distance- Line	20m	25m
Mount Size	1/4" – 20	1/4" – 20
Power Source	4 x AA Battery	4 x AA Battery
IP Rating	IP54	IP54

Note: Appearance and specifications may differ due to product improvement. Working distance varies depending on the operating environment. Battery life depends on battery capacity and quality, it is recommended to use a large capacity battery.

SAFETY INSTRUCTIONS.

Please read thoroughly and comply with the Safety Instructions and User Manual before using this product. Failure to read and follow may void the warranty.

WARNING!

- Class 2 Laser Product
- Max. Power Output: $\leq 1\text{mW}$
- Wavelength: 510nm-640nm
- LASER RADIATION:
- DO NOT STARE INTO THE BEAM.
- DO NOT DIRECT EYE EXPOSURE.
- AVOID VIEWING WITH OPTICAL INSTRUMENTS.

ATTENTION:

Read all instructions prior to operating this laser tool. Do not remove any labels from the tool.

- Do not set up the laser tool at eye level or operate the tool near a reflective surface as the laser beam could be projected into your eyes or into the eyes of others.
- While the product is in operation, be careful not to expose your eyes to the emitting laser beam (Green/Red light source). Exposure to a laser beam for an extended time may be hazardous to your eyes.
- Do not attempt to view the laser beam through optical tools such as telescopes as serious eye injury may result.
- Do not disassemble or modify the laser in any way. Modifying the tool may result in hazardous Laser Radiation Exposure.
- Do not operate the laser around children or allow children to operate the laser. Serious eye injury may result.
- Exposure to the beam of a Class 2 laser is considered safe for a maximum of 2 seconds. Eyelid reflexes will normally provide adequate protection.
- The following label/print samples are placed on the product to inform of the laser class for your convenience and safety.

MAINTENANCE AND CARE

- When not in use please power OFF the tool and place the pendulum lock in its locked position.
- In Manual Mode, self-leveling is OFF. The accuracy of the beam is not ensured to be level.
- The laser tool is sealed and calibrated at the plant to the accuracy specified.
- It's recommended to carry out an accuracy check before its first use and periodic checks during future use, especially for precise layouts.
- Do not store the laser tool in direct sunlight or expose it to high temperatures. The housing and some internal parts are made of plastics and may become deformed at high temperatures.
- Exterior plastic parts may be cleaned with a damp cloth. Although these parts are solvent resistant, NEVER use solvents. Use a soft, dry cloth to remove moisture from the tool before storage.
- Store the tool in its case when not in use. If storing for an extended time, remove batteries before storage to prevent possible damage.
- Do not dispose of this product with household waste.
- Always dispose of batteries per local code.
- Please recycle in line with local provisions for the collection and disposal of electrical and electronic waste

under the WEEE Directive.

BATTERY SAFETY

- Keep the battery away from children, and pets.
- Please pay attention to the position of the positive and negative poles.
- Please replace new alkaline batteries instead of carbon batteries. The battery capacity should be more than 1500mA each.
- Do not mix old and new batteries. Replace all of them at the same time with new batteries of the same brand and type.
- When the device will not be used for a long time, please remove the batteries and store them in dry condition.

OPERATION MODES

Turn ON the laser tool:

- Method 1: Slide the side switch to the Unlocked Position, turn on the horizontal line, and self-leveling mode in default.
- Method 2: When the side switch is in the Locked Position, press the button and hold for ≥ 2 seconds to turn on the laser tool. Turn on the horizontal line and manual mode by default.

Lines switching:

- Turn on the laser tool, a short press of the button repeatedly to switch the composition of different laser lines.
- The laser line will switch in the following order:
①One Horizontal Line (default)⇒②One Vertical Line + Down Dot⇒③Two Vertical Lines + Down Dot ⇒④All lines and dots light up.

Switch to Pulse Mode:

- Turn on the laser tool, a long press the Operation Button to turn on Pulse Mode, and can be used with a laser detector.

Note: The laser beam is dimmer in pulse mode.

Turn OFF the laser tool:

If the laser tool is in self-leveling mode: Slide the side switch to the Locked Position to turn the laser tool OFF.

If the laser tool is in manual mode:

- Method 1: Slide the side switch to the Unlocked Position, and then slide the switch again to the Locked Position to turn the laser tool OFF.
- Method 2: Short press the button to switch the laser line in order.

After “④All lines and dots light up”, a short press of the button again to turn the laser tool OFF.

Note: The laser level can only be turned off when the side switch is in its Locked Position.

SELF-LEVELING MODE

- is enabled when the laser tool is switched to the unlocked position.
- has laser plumb blink fast when the tool is out of the self-leveling range ($\pm 3.5^\circ$).

Note: When using Self-leveling mode, please place this laser tool on a level surface.

MANUAL MODE

- Slide the side switch to the Locked Position, then press a button and hold for ≥ 2 seconds to turn on the manual mode.
- The laser beam(s) will blink about every 3-5 seconds to notify the user.

PULSE MODE

- Under pulse mode, the Laser tool can work with a laser detector for working in a brighter environment or a larger working distance.
- Under the Pulse model, the laser beam will enter into a power-saving condition, which leads to longer battery life. Users are recommended to use this model for green beams in indoor uses.
- Turn on the laser tool, a short press of the Pulse button will turn the Pulse Mode on, and the LED Indicator will light up. The laser beam is dimmer in pulse mode.
- Press and hold the Operation Button again for 3 seconds to back
- Normal Mode and the brightness of the laser line will return to normal.
- Please turn on the pulse mode when using the laser detector.

RECEIVER (LS1) OPERATION

1. Switch the LS1 (detector/receiver) on by pressing the power button, the speaker will beep indicating the instrument is operating.
2. Move the receiver/detector into the path of the laser beam.
3. Hold the Detector upright for horizontal beams, and rotate the receiver/detector 90 degrees for vertical beams.

Note: The led direction indicators will indicate the position of the laser beam, and the center LED will indicate alignment with the beam.

FUNCTION



Press and hold this symbol / Button to activate the Pulse Mode for the ML3 Series to use the LS1 SYMBOL



PRODUCT INCLUSIONS

The Metsys ML3 (Red Beam) Package Contains:



- 1 x Line laser
- 1 x Safety Glasses
- 1 x Red Target
- 1 x Magnetic Bracket
- 1 x Soft carry case

The Metsys ML3G (Green Beam) Package Contains:



- 1 x Line laser
- 1 x Safety Glasses
- 1 x Green Target
- 4 x Rechargeable batteries
- 1 x Battery Charger
- 1 x Magnetic Bracket
- 1 x Soft carry case

WARRANTY

All Metsys line lasers have the ability for an Extended warranty of 1 (year), Standard warranty on these lasers is: 1 year Total with an Extended warranty claimed is 2 years.

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PURCHASE ONLINE www.lightwavetechnology.com.au

EXTENDED WARRANTY SUBMISSIONS <http://www.metsys.com.au/warranty/4594309423>

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Documents / Resources

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References

- [Lightwave Technology | Homepage](#)

Manuals+.