

METSYS

ML2 / ML2P / ML2PG MANUAL



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ON THE COVER

Metsys ML2 / ML2PG series lasers

INTRODUCTION

The Metsys ML2 / ML2P / ML2G / ML2PG is part of the line laser range, producing a dot point for the P models and a basic line for the ML2 models, with a lock switch on the side of the unit to avoid any pendulum damage when transporting the unit as well as it being a on and off switch making the unit easy to use and operate. The simple two button key pad allows you to move between the vertical and horizontal 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 spans over 180°being ideal for (Carpentry , Cabinet makers , tilers etc. , with a marker being produced under the laser to point out the plum point. 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. Laser Switch button
2. Pulse button
3. LED indicator
4. Laser Horizontal port
5. Laser Vertical port
6. Plumbing Dots port
7. Pendulum/Transit Lock
8. 1/4" & 5/8 " threaded mount
9. Battery cover
10. Main switch Button

PRODUCT SPECIFICATIONS

FEATURE	ML2	ML2P	ML2PG
Wave Length			
-Line	635-660nm	635-660nm	510-520nm
-Dot	635-660nm	635-660nm	635-660nm
Laser Class	Class II	Class II	Class II
Levelling Accuracy	± 3mm / 10m	± 3mm / 10m	± 3mm / 10m
Horizontal / Vertical Accuracy	± 3mm / 10m	± 3mm / 10m	± 3mm / 10m
Plumb Dot Accuracy	± 3mm / 10m	± 3mm / 10m	± 3mm / 10m
Fan Angle	H 360 ° / V 140 °	H 360 ° / V 140 °	H 360 ° / V 140 °
Levelling Range	± 3.5°	± 3.5°	± 3.5°
Operation Temperature	0°C ~ 45°C	0°C ~ 45°C	0°C ~ 45°C
Storage Temperature	-20°C ~60°C	-20°C ~60°C	-20°C ~60°C
Operating Time			
- AA Batteries	Approx. 10hrs	Approx. 10hrs	Approx. 4hrs
- Rechargeable Battery	N/A	N/A	Approx. 10hrs
Working Distance			
- Line	30m	30m	30m
- Dot	N/A	N/A	50m
Mount Size	5/8" & 1/4"	5/8" & 1/4"	5/8" & 1/4"
Power Source	4 x AA Battery	4 x AA Battery	4 x AA Battery
IP Rating	IP54	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 BEAM.
- DO NOT DIRECT EYE EXPOSURE.
- AVOID VIEW WITH OPTICAL INSTRUMENTS.

ATTENTION:

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

- **Do not set up 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.**
- **An 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.**

MAINTANCE 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 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 pole.
- 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 to turn on the laser tool.
- **Method 2:** When the pendulum in Locked Position, press operation button and hold for ≥ 2 seconds to turn on the laser tool.
- The LED Indicator will light up when the laser tool turn on.

Lines switching:

- Short presses of the operation button repeatedly to switch the composition of different laser lines.
- Laser line will switches in the following order:
① All lasers light up \Rightarrow ② Horizontal Line \Rightarrow ③ Vertical Line \Rightarrow ④ Horizontal Line + Vertical Line \Rightarrow ⑤ Down Dot + Up Dot

Switch to Pulse Mode:

- Short press of the Pulse button to turn the Pulse Mode on, the LED Indicator will light up.

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 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 pendulum again to the Locked Position to turn laser tool OFF.
- **Method 2:** Short press of the operation button to switch the laser line in order. After “⑤ Down Dot + Up Dot”, short press of the operation button again to turn laser tool OFF.

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

SELF LEVELING

- Is enabled when the laser tool is switched to the unlocked position.
- The laser will blink fast when tool is out of 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 Laser button and hold for 3 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, Laser tool can work with a laser detector for working in a brighter environment or a larger working distance.
- Under Pulse model, the laser beam will enter into power-saving condition, which leads to longer battery life. Users are recommended to use this model for green beam in indoor uses.
- Turn on the laser tool, 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 , rotate the receiver / detector 90 degrees for vertical beams.

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

FUNCTION

Select this symbol / Button to activate the Pulse Mode for the ML2 Series to use the LS1

SYMBOL



PRODUCT INCLUSIONS

The Metsys ML2 and ML2P (Red Beam)

Package Contains:

- 1 x Safety Glasses
- 1 x Red target
- 1 x Magnetic Bracket
- 1 x Soft carry case

The Metsys ML2G and ML2PG (Green Beam)

Package Contains:

- 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 (1 year),
Standard warranty on these lasers is : 1 year
Total with 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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