



Application/ Features	ML2	ML2P	ML2PG	ML3	ML3G
Green LD Visibility Max			●		●
Drop Ceiling	●	●	●	●	●
Floor/ Tiling/ Door & Window	●	●	●	●	●
Leveling	●	●	●	●	●
Height Transfer	●	●	●	●	●
Point Transfer	●	●	●	●	●
Square				●	●
Layout				●	●
Pulse; / Power saving Model	●	●	●	●	●
Slope Application	●	●	●	●	●

ML2/ 2P/2PG Product Overview

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



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.
ACOID VIEW WITH OPTICAL INSTRUMENTS.



IEC /EN 60825-1

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.



IEC /EN 60825-1



User Guide, 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 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 Mode

- 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.

Specifications

Model	ML-2Red Beam	ML2P Red Beam	ML2PG Green Beam
Laser Wavelength	635-660nm		510-520nm (Dot: 635-650nm)
Laser Class	Class 2 (IEC/EN60825-1/2014), ≤1mW		
Leveling Accuracy	±3mm/10m		
Horizontal/Vertical Accuracy	±3mm/10m		
Plumb Dot Accuracy	±3mm/10m		
Fan angle	H: 360 ° / V: 140°		
Leveling/Compensation Range	±3.5°		
Operation Temperature Range	0°C ~ + 45°C		
Storage Temperature Range	-20°C ~ + 60°C		
Operating Time (all laser beams on)	Approx 10 Hours	Approx 7 Hours	Approx 4hrs (4AA) / 10hrs (Rechargeable)
Working Distance (Line)	30m	30m	30m
Working Distance (Dot)	N/A	50m	50m
IP Rating	IP54		
Mount Size	1/4"-20&5/8"-11		
Power Source	4×"AA" (LR6) / Rechargeable Battery (LR6)		

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.

ML3 / ML3G Product Overview

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).



Operation Modes

Turn ON the laser tool:

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

Lines switching:

- Turn on the laser tool, short press of the button repeatedly to switch the composition of different laser lines.
- Laser line will switches in the following order:
① One Horizontal Line (default) \Rightarrow ② One Vertical Line + Down Dot \Rightarrow ③ Two Vertical Lines +

Down Dot ⇒ ④ All lines and dots light up

Switch to Pulse Mode:

- Turn on the laser tool, long press of 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 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 laser tool OFF.
- Method 2: Short press of the button to switch the laser line in order. After “④ All lines and dots light up”, short press of the button again to turn laser tool OFF.

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

Self-leveling Mode

- is enabled when the laser tool is switched to the unlocked position.
- has laser plumb 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 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.

Specifications

Model	ML3 Red Beams	ML3G Green Beams
Laser Wavelength	635-660nm	510-520nm
Laser Class	Class 2 (IEC/EN60825-1/2014), $\leq 1\text{mW}$	
Leveling Accuracy	$\pm 3\text{mm}/10\text{m}$	
Horizontal/Vertical Accuracy	$\pm 3\text{mm}/10\text{m}$	
Plumb Dot Accuracy	1.4mm/1m	
Leveling/Compensation Range	$\pm 3.5^\circ$	
Working Distance (Line)	20m	25m

METSYS ML2/3 LINE LASER OPERATING MANUAL

Operating Time (all laser beams on)	Approx 8 hrs	Approx 3 hrs /7hrs (Rechargeable)
Mount Size	1/4"-20	
Power Source	4×"AA" (LR6) / Rechargeable (LR6)	
IP Rating	IP54	
Operation Temperature Range	0°C~ + 45°C	
Storage Temperature Range	-20°C~ + 60°C	