

GENERAL

LM30 30m Laser Distance Measurer



INSTRUCTION MANUAL

SAFETY

Please read this instruction manual before operating this product. Please store this instruction manual in the carry case for future reference.

CAUTION: Class 2 Laser Product

Do not stare directly into the laser beam from apertures.
Keep out of reach of children.

Due to the electromagnetic radiation interference to other equipment and devices please do not use the laser distance measurer in an airplane or around medical equipment.

Do not use in a flammable, explosive environment.

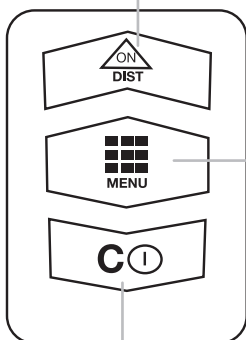
Discarded batteries or devices should not be processed with household garbage. Please follow related laws and regulations.

Do not disassemble the instrument or attempt to perform any internal servicing as this will void your warranty. No user serviceable parts included.

Only approved and authorised service technicians can carry out warranty repairs.

CONTROL PANEL














Power on / read



Menu / function select

Clear / back / power off

LCD DISPLAY ICONS

	Full battery		Single distance measurement
	Empty battery		Area measurement
	Measurement taken from top of unit		Volume measurement
	Measurement taken from bottom of unit		Single pythagorean measurement
	Laser light on		Double pythagorean measurement
	Addition		History
	Subtraction		

USING YOUR DISTANCE MEASURER

POWER SUPPLY

- The General LM30 is supplied with two AAA alkaline batteries
- To replace batteries remove the battery door at the back of the device. Place batteries according to polarity and replace battery door.
- For infrequent use please take out the battery to avoid corrosion to the body of the device.

OPERATION

- To turn the unit on press the *power on / read* button.
- To turn the unit off press and hold the *clear / back / power off* button for two seconds.
- The unit will shut off automatically after 5 minutes without use.

Unit setting

- Press the *menu* button 8 times to enter unit settings.
- Press the *power on / read* button to cycle through the optional units: m, ft, in, ft & in.
- Press the *clear / back / power off* button to exit unit settings.

Measurement reference point

- ▶ Press and hold the *menu* button to enter setup mode.
- ▶ The *measurement taken from top of unit* and *measurement taken from bottom of unit* icon will flash alternately. Release the menu button to select.
- ▶ After powering off the unit will default back to measurement taken from bottom.

View history

- ▶ Press the *menu* button to view history.
- ▶ When the *history* icon appears press the *power on / read* button. The previous 20 measurement will be displayed on the screen.
- ▶ Press the *clear / back / power off* button to exit history.

MEASUREMENT

Single Measurement

- ▶ Hold the unit and point towards the measurement target. Press the *power on / read* button. The laser will be emitted.
- ▶ Re-press the *power on / read* button to take the measurement. Results will be shown on the display screen.
- ▶ The laser will turn off automatically after 20 seconds of inactivity.

Continuous Measurement

- ▶ Press and hold the *power on / read* button for 3 seconds. The laser will be emitted with result shown on the display screen.
- ▶ Move the unit until the required distance is displayed.
- ▶ Press the *clear / back / power off* button to exit continuous measurement mode.

Area Measurement

- ▶ Press the *menu* button four times to enter area measurement mode. A rectangle will appear on the display screen with one edge flashing.
- ▶ Press the *power on / read* button to take the first measurement (length).
- ▶ Press the *power on / read* button to take the second measurement (width).
- ▶ The area will be calculated automatically with results shown on the display screen.
- ▶ Press the *clear / back / power off* button to clear data. Press and hold the *clear / back / power off* button to exit area mode.

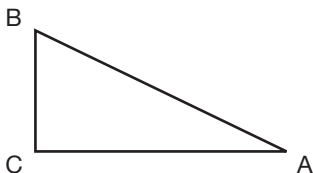
Volume Measurement

- ▶ Press the *menu* button five times to enter volume measurement mode. A cube will appear on the display screen with one edge flashing.
- ▶ Press the *power on / read* button to take the first measurement (length).
- ▶ Press the *power on / read* button to take the second measurement (width).
- ▶ Press the *power on / read* button to take the third measurement (height).
- ▶ The volume will be calculated automatically with results shown on the display screen.
- ▶ Press the *clear / back / power off* button to clear data. Press and hold the *clear / back / power off* button to exit volume mode.

Single Pythagorean measurement

The single pythagorean mode calculates indirect measurements when an obstacle prevents direct measurement. To achieve accurate results the distances must be at a right angle.

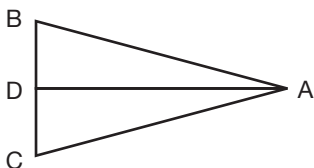
- ▶ Press the *menu* button six times to enter single pythagorean measurement mode. A triangle will appear on the display screen with one edge flashing.
- ▶ Press the *power on / read* button to take the first measurement from point A (A-B).
- ▶ Press the *power on / read* button to take the second measurement (A-C). This measurement must be taken from the same point as A-B.
- ▶ The distance will be calculated automatically (B-C) with results shown on the display screen.
- ▶ Press the *clear / back / power off* button to clear data. Press and hold the *clear / back / power off* button to exit single pythagorean mode.



Double Pythagorean measurement

The double pythagorean mode calculates indirect measurements when the length is higher and lower than the measurement position. To achieve accurate results the distances must be at a right angle.

- ▶ Press the *menu* button seven times to enter double pythagorean measurement mode. A double triangle will appear on the display screen with one edge flashing.
- ▶ Press the *power on / read* button to take the first measurement from point A (A-B).
- ▶ Press the *power on / read* button to take the second measurement (A-D). This measurement must be taken from the same point as A-B.
- ▶ Press the *power on / read* button to take the third measurement (A-C). This measurement must be taken from the same point as A-B and A-D.
- ▶ The distance will be calculated automatically (B-C) with results shown on the display screen.
- ▶ Press the *clear / back / power off* button to clear data. Press and hold the *clear / back / power off* button to exit single pythagorean mode.



Adding measurements

- ▶ Press the *menu* button two times to enter addition mode. A plus icon will appear on the display screen.
- ▶ Press the *power on / read* button to take the first measurement.
- ▶ Press the *power on / read* button to take the second measurement. The values will be added automatically with results shown on the display screen.
- ▶ Press the *clear / back / power off* button to exit addition mode.

Subtracting measurements

- ▶ Press the *menu* button three times to enter subtraction mode. A minus icon will appear on the display screen.
- ▶ Press the *power on / read* button to take the first measurement.
- ▶ Press the *power on / read* button to take the second measurement. The values will be subtracted automatically with results shown on the display screen.
- ▶ Press the *clear / back / power off* button to exit subtraction mode.

TROUBLE SHOOTING

ERR01 *Reflection*

Measure towards an area without reflection interference or remove the reflecting surface.

ERR02 *Out of range*

Measurements must be taken within 0.5 - 30m.

ERR03 *The target provides poor reflection of the laser beam.*

Change the target or cover with a piece of white paper.

ERR06 *Low battery*

Replace the batteries.

CARE AND MAINTENANCE

- ▶ Inaccurate measurement results may occur in harsh environments such as strong sunlight, excessive temperature fluctuations, weak reflective surfaces or low battery.
- ▶ Whenever possible, store the instrument in a cool, dry place. Do not store in high temperatures or strong humidity for long periods of time.
- ▶ Remove the batteries before storing the device for long periods of time without use.
- ▶ To remove dust clean the instrument with a damp, soft cloth.

WARRANTY

The General LM30 comes with a 3 year manufacturers warranty.

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.

Separate to the above Australia Consumer Law, *Spot-on* offers a global warranty.

Customer Support

To assist you with any queries or technical questions please contact the customer support line: 1300 658 338

SPECIFICATIONS

Specifications	LM30
Product code	70022
Warranty	3 Years
Accuracy	±2mm
Range	0.5 - 30m
Laser class	2 Red

Available from



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Auckland, Wellington + Christchurch

