SAOBI

OWNER'S OPERATING MANUAL LASER DISTANCE MEASURER **MODEL LDM-52**

SPECIFICATIONS

Laser type
Battery type

THANK YOU FOR BUYING A RYOBI LASER DISTANCE MEASURER

Your new laser measurer has been engineered and manufactured to Ryobi's high standard of dependability, ease of operation and operator safety. Properly cared for, it will give you years of rugged, trouble free performance. If you use your laser measurer properly and only for what it is intended, you will enjoy years of safe, reliable service



CAUTION: Carefully read through this entire owner's manual, paying close attention to the general safety rules and rules for safe operation, before using

KEEP THIS MANUAL FOR FUTURE REFERENCE

IMPORTANT SAFETY INSTRUCTIONS

The purpose of safety rules is to attract your and the explanations with them, require your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instruction or warnings they give are not substitutes for proper accident prevention

SAFETY ALERT SYMBOL Indicates danger, caution or warning.

fire, electric shock and personal injury.

May be used in conjunction with other symbols or pictures. Failure to obey a safety warning can result in serious injury to yourself or to others. Always

follow the safety precautions to reduce the risk of

Do not attempt to operate this tool until you have read thoroughly and completely understood the safety rules, etc. contained in this manual. Failure to comply can result in accidents involving fire, electric shock or serious personal injury. Save this Owners Operating Manual and review it frequently for continual safe operation and for instructing

INTENDED USE

others who may use this tool.

Your Rvobi laser distance measurer has been designed for for domestic use only. it may be used for measuring distances, lengths and heights. The laser distance measurer can be used indoors and outdoors.

WARNING To reduce the risk of injury, the user must read and inderstand the operator's manual

SAFETY INSTRUCTIONS WARNING! LASER RADIATION. AVOID DIRECT EYE EXPOSURE.

DO NOT stare into the laser source. Never aim light at another person or object other

than the workpiece. The laser light can damage your eyes.

Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Do not direct the laser beam at persons or animals and do not stare into the laser beam

This laser complies with class 2 according to IEC 60825-1: 2014. Do not replace the laser diode with a different type. If damaged, have the

laser repaired by an authorised repair agent. Do not use the laser for any purpose other than projecting laser lines.

SPECIFIC SAFETY INSTRUCTIONS WARNING! Working safely with the laser measurer is possible only when the operating and safety information are read completely and the instructions contained therein are strictly followed. Never make warning labels on the product

unrecognizable. Never aim the beam at a workpiece with a reflective surface. Bright shiny reflective sheet steel or similar reflective surfaces are not recommended for laser use. Reflective surfaces

could direct the beam back toward the operator.

Take care to recognize the accuracy and range of the device. Measurement may not be accurate if used beyond the rated range of the device.

Use of controls or adjustments or performance of procedures other than those specified herei may result in hazardous radiation exposure

The use of optical instruments with this product

Have the laser measurer repaired only through a

will increase eve hazards.

qualified specialist using original spare parts. This ensures that the safety of the laser measurer is maintained.

Do not allow children to use the laser measurer without supervision. They could unintentionally blind other persons.

Do not point the laser beam at persons or animals and do not look into the laser beam yourself, not even from a large distance. Do not use laser viewing glasses as safety goggles. Laser viewing glasses are used for improved visualization of the laser beam, but they

do not protect against laser radiation SAFE OPERATING PROCEDURES Use of controls or adjustments or performance of procedures other than those specified in this manual, may result in hazardous radiation

The use of optical instruments with this product will increase eye hazard.

ALWAYS: Make sure that any bystanders in the vicinity of use are made aware of the dangers of looking directly into the laser measurer.

DO NOT remove or deface any warning or caution labels. Removing labels increases the risk of exposure to laser radiation.

DO NOT stare directly at the laser beam or project the laser beam directly into the eyes of others. Serious eye injury could result.

DO NOT place the laser measurer in a position that may cause anyone to stare into the laser beam intentionally or unintentionally. Serious eye injury could result.

DO NOT use any optical tools such as, but not limited to, telescopes or transits to view the laser beam. Serious eye injury could result. ALWAYS remove the batteries when cleaning the

laser light aperture to laser lens. DO NOT operate the laser measurer around children or allow children to operate the laser

measurer. Serious eye injury could result.

ALWAYS turn the laser measurer "OFF" when not in use. Leaving the laser measurer "ON" increases the risk of someone inadvertently staring into the laser beam

DO NOT operate the laser measurer in combustible areas such as in the presence of flammable liquids, gases or dust.

ALWAYS position the laser measurer securely. Damage to the laser measurer and/or serious injury to the user could result if the laser measurer falls.

ALWAYS use only the accessories that are recommended by the manufacturer of your laser measurer. Use of accessories that have been designed for use with other laser measurer could result in serious injury.

DO NOT leave laser measurer "on" unattended in

any operation mode. by a qualified repair facility. Repairs performed by

unqualified personnel could result in serious

DO NOT use this laser measurer for any purpose other than those outlined in this manual. This

could result in serious injury.

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

IMPORTANT NOTE During daylight or if the target has poor reflection properties, please use a target plate.

In favorable conditions (good target surface properties, room temperature), the device can reach up to rated measuring range.

In unfavorable conditions, such as intense sunshine, poorly reflecting target surface (black surface) or high temperature variations, the deviation over 10m of distance may increase.

ELECTRICAL SAFETY WARNINGS WARNING! Batteries can explode or

leak, and can cause injury or fire. To reduce this risk:

ALWAYS follow all instructions and warnings on the battery label and package.

DO NOT short any battery terminals.

DO NOT charge alkaline batteries. DO NOT mix old and new batteries. Replace all of them at the same time with new batteries of

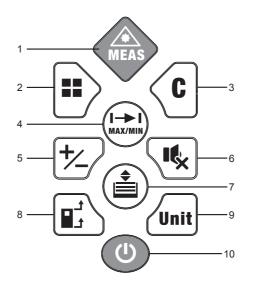
the same brand and type. DO NOT mix battery chemistries

DISPOSE of batteries per local code. DO NOT dispose of batteries in fire.

KEEP batteries out of reach of children.

REMOVE batteries if the device will not be used for several months

BUTTON FUNCTIONS



1. Measure button 2. Area/Volume/Pythagorean button 3. Return/Clear button 4. Continuous measurement button

5. Add (+)/Subtract (-) button 6. Beep button

7. Historical memory button 8. Measuring reference button 9. Unit button 10. On/Off button

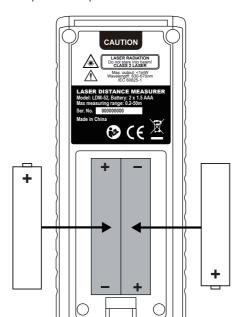
LCD DISPLAY

1. Laser on Reference point (front) 3. Reference point (rear) Distance/Continuous measurement

6,7,8 & 9. Measuring mode indication Battery status 11. Historical memory 12. Value 1

15. Summary line /latest value /calculation result

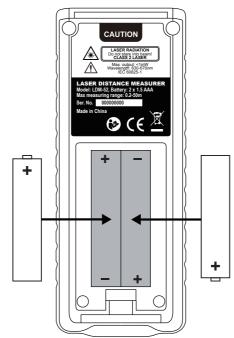
Remove the battery compartment lid and then insert 2, 1.5V AAA batteries according to the



BATTERY REPLACEMENT If the instrument does not switch on or the battery symbol has no bars, replace the batteries as

INSTALLING THE BATTERIES

direction icons on the inside of the battery compartment. Replace the lid.



previously stated above.

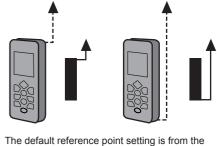
BATTERY DISPOSAL You, as the end user, are legally bound to return all user. bound to return all used batteries, disposal in the household garbage is prohibited! You can hand over your used batteries / accumulators at collection points in your community or wherever batteries / accumulators are sold.

Follow the valid legal stipulations in respect of the disposal of the device at the end of its

13. Value 2/ Min value

Press to switch the measuring reference 14. Value 3/ Max value

point between the front and the rear of the instrument. A beep warning tone will be heard when the reference point is changed.



BATTERY SAFETY REMINDERS

regard to battery disposal.

batteries of the same type

minutes of inactivity.

explode or leak.

Please dispose of batteries responsibly: always

observe local, state, and federal regulations with

Never dispose of batteries in a fire. Batteries may

OPERATION

The unit will automatically power off after three

When measuring, press **C** to undo the last

ADJUSTING THE MEASURING REFERENCE

Never mix battery types. Always install new

TURNING THE UNIT ON AND OFF

Long press (U) to turn on the unit

Long press (1) to turn the unit off.

RETURN/CLEAR FUNCTION

rear of the instrument. The reference point will be set to default every time the machine is powered

UNIT CHANGE Press **Unit** to change the distance unit between m, ft, in, ft + in. **TURNING THE SOUND ON & OFF**

Press to switch on/off the beep when the device is not taking measurements DISTANCE MEASUREMENT

Press to activate the laser Press the button again to trigger the distance measurement. The measured value is

displayed immediately. **CONTINUOUS MEASUREMENT** Press to activate continuous measurement

mode. The maximum and minimum distances measured are shown in the display. The last measured value is displayed in the

The function will be stopped automatically after 5 minutes of inactivity.

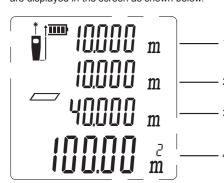
The user can press or **C** to stop the

summary line.

FUNCTIONS

AREA MEASUREMENTS Press once, the symbol appears on the LCD display. Press to take the first distance measurement (length). Press again to take the second distance measurement (width).

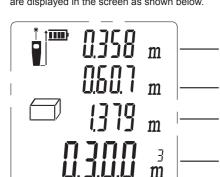
The results of length, width, perimeter and area are displayed in the screen as shown below.



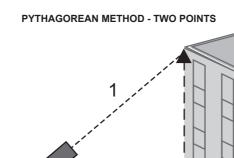
1. The first distance (length) 2. The second distance (width) 3. The perimeter 4. The area

VOLUME MEASUREMENTS Press twice, the symbol appears on

the LCD display. Press to take the first distance measurement (length).



4. The volume

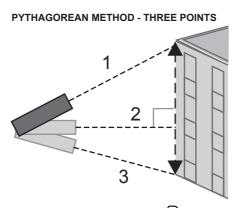


Refer to the diagram above. Press 3 times to activate the function, symbol appears on Press to take the first distance measurement (Point 1 in above diagram). Press again to take the second distance

measurement (Point 2 in above diagram).

The height of the object will be calculated

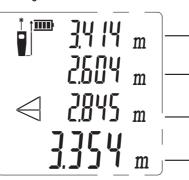
automatically and displayed on the screen as shown below.



the LCD display. Press to take the first distance measurement (Point 1 in above diagram). measurement (Point 2 in above diagram). Press again to take the third distance measurement (Point 3 in above diagram).

The height of the object will be calculated automatically and displayed on the screen

Press to re-measure.



1. First measurement (Point 1) 2. Second measurement (Point 2) 3. Third measurement (Point 3) 4. Calculation result (Height)

ADDITION/SUBTRACTION

Addition: Short press 😾

Take a measurement, then press ½. The addition/subtraction symbol will appear on the LCD display.

Press to take the second measurement. The second value will be automatically added/ Note: This process can be repeated as required.

HISTORICAL MEMORY Press to view the historical memory. The walkes will be displayed in

MAINTENANCE

GENERAL MAINTENANCE This instrument is designed to provide years of dependable service, if the following care instructions are performed:

can shorten the life of the electronic parts and distort or melt plastic parts. Handle the laser measurer carefully and avoid

occasionally with a damp cloth. DO NOT use chemicals, cleaning solvents, or detergents. Use only fresh batteries of the correct type. Remove old or weak batteries so they do not leak and damage the unit.

If the laser measurer is to be stored for long

to prevent damage to the unit.

periods, the batteries should be stored separately

TROUBLESHOOTING

CAUSE & CORRECTIVE ACTION Calculation error. Repeat the procedures in 'OPERATION'. Excessive current. Please contact

your distributor. Battery low. Replace batteries. Temperature too low. Warm up the device.

Received signal is too weak or measurement time is too long. Use a target plate or a good reflective

Received signal is too strong. The

target is too reflective. Use a target plate or do not aim at a strong light Outside of the range of measurement. Select the measurement distance

within the range of measurement. Hardware error. Switch the device On/Off several times. If the code still appears contact your distibutor.

RECYCLING AND DISPOSAL **GENERAL MAINTENANCE** Recycle unwanted materials instead of disposing

of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe wav. Recycle rather than dispose of unwanted material in landfill whenever possible. The

machine must be delivered in rigid packaging to

should be disposed of accordingly. Only dispose of electrical/electronic/battery terms in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your cooperation is vital to ensure the

success of these schemes and for the protection Recycle packaging where facilities exist.

This symbol is known as the Crossed out Wheelie Bin Symbol. When this symbol is marked on a product or disposed of with your general household waste. Some chemicals contained within electrical/electronic products or batteries can be harmful to health

need ever exist of repair or service, simply sure to provide all pertinent facts when you call

SYMBOLS Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols

will allow you to operate the product better and



attention! Your safety is involved. Recycle Symbol. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check

with your Local Authority or retailer for recycling advice. CE Marking. Conforms to relevant CE Marking. Cont safety standards.



Read the Instruction Manual. Your manual contains special messages to bring attention to potential safety concerns as well as operating and servicing information. Please read all the information carefully to ensure



satisfaction and safe use. Warning! Laser radiation.



WARRANTY

Subject to the warranty conditions below, this misuse, neglect, abuse, or used for a purpose RYOBI tool (hereinafter called "the Product"), for which it was not designed, or is not suited is warranted by Ryobi (herein called "the and no repairs, alterations or modifications Company") to be free from defects in material have been attempted by other than an or workmanship for a period of 24 months Authorised Service Agent. This guarantee from the date of original purchase covering will not apply if the tool is damaged by both parts and labour. Under the terms of accident or if repairs arise from normal wear this warranty, the repair or replacement of and tear. any part shall be the opinion of the Company Accessories such as bits, blades, sanding become necessary during the warranty this guarantee. Normal consumable parts, period, the owner should contact the such as carbon brushes, bearings, chucks,

authorised Ryobi retailer from whom the cord assembly's, spark plugs, recoil pulleys product was purchased, or the nearest and bump head assembly's are specifically Company branch office. In order to obtain excluded from this guarantee. warranty service, the owner must include the
The Company accepts no additional liability Sales Docket and Warranty Certificate to pursuant to this warranty for the costs of confirm date of purchase. This Product is traveling or transportation of the Product or sold by the dealer or agent as principal and parts to and from the sevice dealer or agent the dealer has no authority from the Company - which costs are not included in the warranty. to give any additional warranty or guarantee Nothing herein shall have the effect of

contained or herein referred to. This warranty only applies provided that the restriction or modification would render any Product has been used in accordance with term herein void. the manufacturer's recommendations under normal use and reasonable care (in the opinion of the Company) and such warranty does not cover consumable components.

damage, malfunction or failure resulting from

Midrand, South Africa

r its authorised agent. Should service discs cutting lines etc., are excluded from

on the Company's behalf except as herein excluding, restricting or modifying any conditions, warranty, right or liability imposed, to the extent only that such exclusion,

Tel: +27 (11) 357-9600

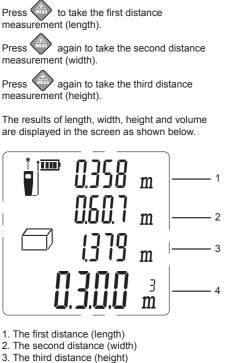
STEVENS & CO (Pty) Ltd P O Box 4059 604, 16th Street, Randjespark HALFWAY HOUSE

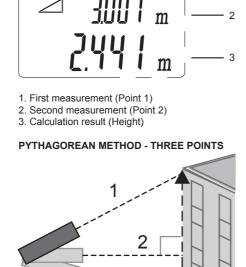
Fax: +27 (11) 805-5541 email: stevens@ryobi.co.za 1685, South Africa THIS WARRANTY FORM

SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES. For your record and to assist in establishing date of purchase (necessary for in-warranty service), please keep your purchase docket and this form, completed with the following particulars. PURCHASED FROM: ADDRESS OF DEALER:. . MODEL NO... .. SERIAL NO..

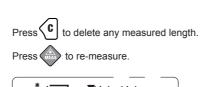
Present this form with your Purchase Docket when Warranty Service is required.

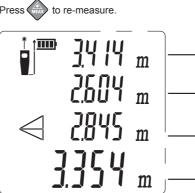






Refer to the diagram above. Press 4 times to activate the function, symbol \triangleleft appears on Press again to take the second distance





Subtraction: Long press 1/2/

subtracted from the first measurement.

Press **(c)** to quit historical value viewing.

Keep the laser measurer dry and free from dust. Use and store the laser measurer in nominal temperature conditions. Temperature extremes

shock and vibration. Dropping the meter may damage the electronic parts or the case. Keep the laser measurer clean. Wipe the case

SERVICE contact your nearest Ryobi Authorised Service Centre or other qualified service organistion. Be

packaging and the machine itself are manufactured from recyclable materials and

avoid damage during transportation. The

battery, it means that it should not be

Now that you have purchased your tool, should a