深圳市迈测科技有限公司 shenzhen MileSeey Technology co.,LTd			
名称	快速指南	料号	
迈测型号		尺寸	展开 490x285mm 成品 70x142.5mm
客户型号	无	版本	
材质及工艺	105g 铜板纸 , 正	反面爲	黑白印刷
设计		日期	

OWNER'S OPERATING MANUAL LASER DISTANCE MEASURER **MODEL LDM-72B**

SPECIFICATIONS		
Max. measuring r Measuring accur: Tilt measurement Screen display Measuring refere Measuring units Memory Auto power switc Laser class Protection class Laser type Operating temper Storage temperat 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 attention to possible dangers. The safety symbols 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. 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 fire, electric shock and personal injury.

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 others who may use this tool.

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

than the workpiece.

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



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

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

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 hereig may result in hazardous radiation exposure

The use of optical instruments with this product will increase eve hazards.

Have the laser measurer repaired only through a

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

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

manual, may result in hazardous radiation

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

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

measurer. Serious eye injury could result.

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

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.

reach up to rated measuring range.

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.

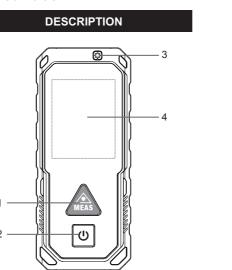
DO NOT charge alkaline batteries. DO NOT mix old and new batteries. Replace all

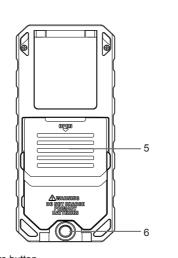
of them at the same time with new batteries of the same brand and type. DO NOT mix battery chemistries

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.





Activate the measuring mode, press button to

2. On/Off/Clear/Return Button Long press to switch On/Off, short press to clear the previous operations or return to main

3. Laser emitter indiction 4. Touch screen

5. Battery compartment 6. Tripod screw hole

1. Measure button

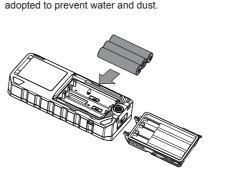
Please dispose of batteries responsibly; always regard to battery disposal

Never mix battery types. Always install new batteries of the same type.

INSTALLING THE BATTERIES Press and slide the cover towards the rear of the



Insert 3, 1.2V AAA batteries according to the direction icons on the inside of the battery compartment. The TPE sealing ring has been



Replace the cover and slide upwards to seal in

This product uses rechargeable NI-MH batteries. Please use the provided USB cable while charging. A computer can also be used to charge the unit via the USB cable but this will take more

WARNING! When using dry batteries, DO NOT use the USB port to charge. DO NOT mix rechargeable batteries with dry batteries at the same time to avoid accidents. Any damage caused by improper use of charging dry batteries is not covered by the

warranty, RYOBI will not be responsible for it. While charging, the device may heat up. This is normal and will not affect the product

Please unplug the charger and remove the batteries when not in use

performance and lifespan.

BATTERY DISPOSAL

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

You, as the end user, are legally 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 lifecycle. **BATTERY SAFETY REMINDERS**

observe local, state, and federal regulations with

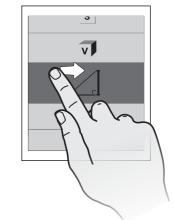
Never dispose of batteries in a fire. Batteries may explode or leak.

Long press (v) to switch on the instrument.

TOUCHSCREEN OPERATIONS

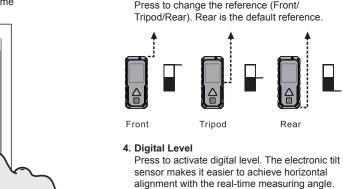
The screen will automatically display measurement mode.

Slide your finger to the right of the screen to access the measurement mode menu. Scroll up and down to select the desired measuring mode.



measurements.

2. Measuring Unit On the measuring mode screen, slide left to Press to change the measuring units access the Add/Subtract mode. You can choose (m/ft/in/ft+in). to add or subtract by pressing the '+' or '-' symbols. Add and subtract calculations can be 3. Measuring Reference made to distance, area and volume



On the measuring mode screen, slide down to access the setup menu. Slide up to retract it

The screen will automatically switch to Landscape display when the device placed **MEASURING INTERFACE**

Press to activate screen orientation setting.

5. Screen Rotation

SETUP MENU

2

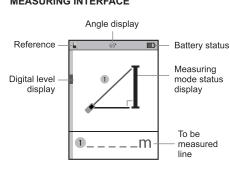
Press to recall memory values. Press a or

slide the screen left or right to view history

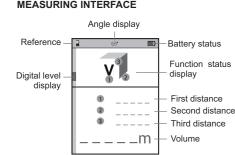
1

4

1. Memory



MEASURING INTERFACE



OPERATION

NOTE BEFORE STARTING The latest measuring line and distance are displayed in Red, measure data marked in gray and the summary line displayed in green.

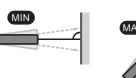
SINGLE DISTANCE MEASUREMENTS Long press (b) to switch on the instrument.

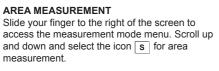
distance measurement mode. Press after aiming at the target to trigger the distance measurement. The measured value is

The screen will automatically display single

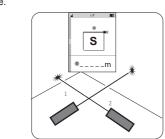
displayed immediately in the summary line. **CONTINUOUS MEASUREMENTS** The continuous measurement allows the user to measure the maximum or minimum distance from a fixed measuring point.

Long press and slowly sweep the laser back and forth and up and down over the desired target. Press again when you have finished. The maximum and minimum distance values are indicated in the display as well as the last measured value marked in green. This function will be stopped automatically after 5 minutes of inactivity.



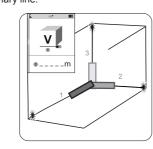


The icon on screen will show a red line indicating that the length measurement should be taken. Press to get the length distance and then press again to get the width distance. The area is calculated and displayed in the summary



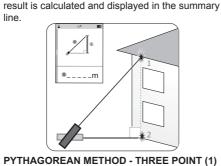
VOLUME MEASUREMENT Slide your finger to the right of the screen to access the measurement mode menu. Scroll up and down and select the icon $\sqrt{}$ for volume measurement.

The icon on screen will show a red line indicating that the length measurement should be taken. Press to get the length distance and then press again to get the width distance. then press \(\begin{aligned} \text{a third time to get the height distance.} \end{aligned} \) The volume is calculated and displayed in the summary line.



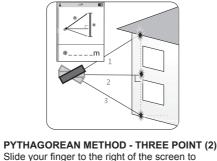
PYTHAGOREAN METHOD - TWO POINTS Slide your finger to the right of the screen to access the measurement mode menu. Scroll up and down and select the icon / for pythagoras

The icon on screen will show a red line indicating that the 1st line measurement should be taken. Press to get the distance of the 1st line, change to the horizontal direction of the object from the fixed measuring point and press 🛆 again to get the distance of the 2nd line. The result is calculated and displayed in the summary



Slide your finger to the right of the screen to access the measurement mode menu. Scroll up and down and select the icon for pythagoras 3-point (1) measurement.

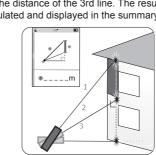
The icon on screen will show a red line indicating that the 1st line measurement should be taken. Press to get the distance of the 1st line, change to the horizontal direction of the object from the fixed measuring point and press 🛆 again to get the distance of the 2nd line. Move to the 3rd target point and press to get the distance of the 3rd line. The result is calculated and displayed in the summary line.



Slide your finger to the right of the screen to access the measurement mode menu. Scroll up and down and select the icon for pythagoras 3-point (2) measurement.

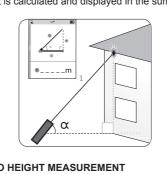
The icon on screen will show a red line indicating that the 1st line measurement should be taken. Press to get the distance of the 1st line. move to the 2nd target point from the fixed measuring point and press 🛆 again to get the distance of the 2nd line.

Change to the horizontal direction of the object from the fixed measuring point and press \(\bigair \) to get the distance of the 3rd line. The result is calculated and displayed in the summary line.



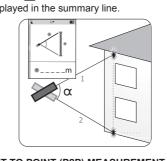
AUTO LEVEL MEASUREMENT Slide your finger to the right of the screen to and down and select the icon ___ for auto level

Following the red line shown on the icon displayed press <u>A</u> to get the distance of the hypotenuse, vertical and horizontal lines. The result is calculated and displayed in the summary



AUTO HEIGHT MEASUREMENT Slide your finger to the right of the screen to access the measurement mode menu. Scroll up and down and select the icon < for auto height measurement.

Following the red line shown on the icon displayed press to get the distance of the 1st line, press for the 2nd line. The vertical height is displayed in the summary line.



POINT TO POINT (P2P) MEASUREMENT Slide your finger to the right of the screen to access the measurement mode menu. Scroll up and down and select the icon for P2P measurement.

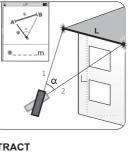
Follow the instructions on screen "Self calibrate, do not move it". Make sure you hold the device completely still and wait for the calibration to Following the red line shown on the icon

laser point, move the device from the fixed

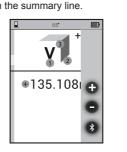
measuring point, press again to get the

displayed press to get the distance of the 1st

distance to the 2nd laser point. The distance between the two laser points is displayed in the summary line.



ADD/SUBTRACT Under the measuring modes of DISTANCE, AREA & VOLUME, slide left to access the Add/Subtract mode. Press the '+' or '-' to make add/subtraction calculations on the basis of previous records. The result is calculated and displayed in the summary line.



MAINTENANCE **GENERAL MAINTENANCE**

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

Keep the laser measurer dry and free from dust. Use and store the laser measurer in nominal temperature conditions. Temperature extremes can shorten the life of the electronic parts and distort or melt plastic parts.

Handle the laser measurer carefully and avoid shock and vibration. Dropping the meter may damage the electronic parts or the case. Keep the laser measurer clean. Wipe the case 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 periods, the batteries should be stored separately

to prevent damage to the unit. TROUBLESHOOTING **CAUSE & CORRECTIVE ACTION** CODE

Excessive current. Please contact

Received signal is too weak or

target plate or a good reflective

measurement time is too long. Use a

Calculation error. Repeat the procedures in 'OPERATION'.

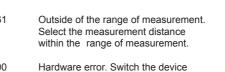
your distributor.

surface

208

Battery low. Replace batteries 253 Temperature too low. Warm up the device.

Received signal is too strong. The target is too reflective. Use a target plate or do not aim at a strong light objective.



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

Recycle rather than dispose of unwanted material in landfill whenever possible. The machine must be delivered in rigid packaging to avoid damage during transportation. The packaging and the machine itself are manufactured from recyclable materials and should be disposed of accordingly.

Only dispose of electrical/electronic/battery terms

the recovery and recycling of materials contained

in separate collection schemes, which cater for

within. Your cooperation is vital to ensure the success of these schemes and for the protection of the environment. 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 battery, it means that it should not be disposed of with your general household waste. Some chemicals contained

within electrical/electronic products or batteries

can be harmful to health SERVICE

Now that you have purchased your tool, should a need ever exist of repair or service, simply contact your nearest Ryobi Authorised Service Centre or other qualified service organistion. Be sure to provide all pertinent facts when you call or visit.

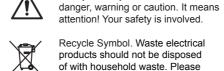
SYMBOLS

Safety Alert Symbol. Indicates

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 safer.

for recycling advice.

safety standards.



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

CE Marking. Conforms to relevant

Read the Instruction Manual. Your

bring attention to potential safety

concerns as well as operating and

the information carefully to ensure

manual contains special messages to

servicing information. Please read all

attention! Your safety is involved.



satisfaction and safe use. Warning! Laser radiation

RYOBI POWER EQUIPMENT WARRANTY

any part shall be the opinion of the Company Accessories such as bits, blades, sanding

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

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.

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 on the Company's behalf except as herein excluding, restricting or modifying any contained or herein referred to. **Warranty Conditions** 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

Tel: +27 (11) 357-9600

Fax: +27 (11) 805-5541

conditions, warranty, right or liability imposed,

to the extent only that such exclusion.

STEVENS & CO (Pty) Ltd P O Box 4059 604, 16th Street, Randiespark HALFWAY HOUSE Midrand South Africa 1685, South Africa

THIS WARRANTY FORM SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES.

keep your purchase docket and this form, completed with the following particulars. PURCHASED FROM:.. ADDRESS OF DEALER:..

email: stevens@ryobi.co.za

.. MODEL NO.. SERIAL NO.

For your record and to assist in establishing date of purchase (necessary for in-warranty service), please

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