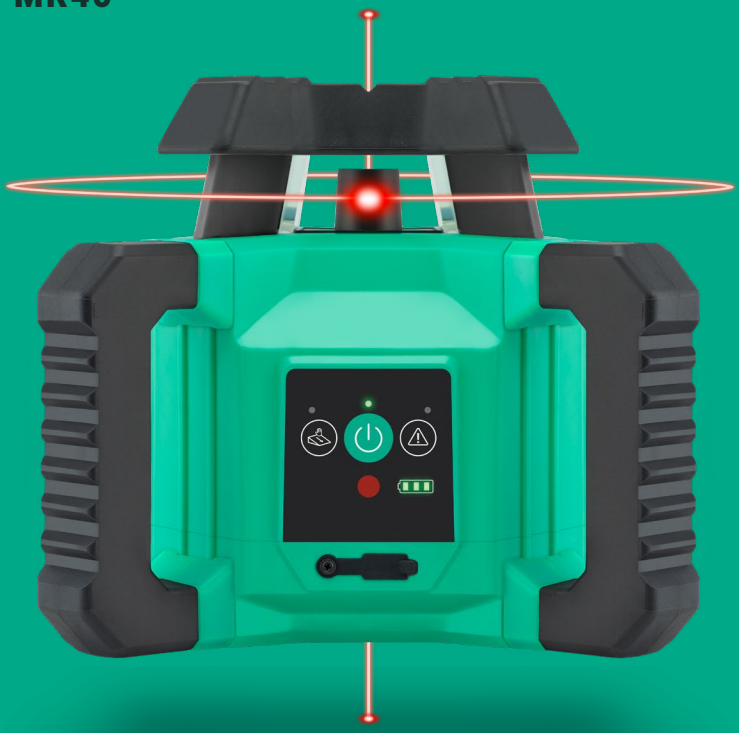
GOBLIN TOOLS

SKU: RLXMR40KT
Version 2026.1.1

MANUAL SINGLE GRADE
ROTARY LASER LEVEL KIT

RLX-MR40



INSTRUCTION MANUAL

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SAFETY

Read the following safety instructions before attempting to operate this tool.

Keep these instructions in a safe place or store in the carry case for future reference.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.

WARNING!
Read and understand all instructions.

- Use the tool only with the specifically designated batteries.
- Use only accessories that are recommended for your model.
- Position the tool securely on a level surface. Damage to the tool or serious injury could result if the tool falls.
- Do not place the tool in a position which may cause anyone to intentionally or unintentionally stare into the laser beam. Serious eye injury could result.
- Do not position the tool near a reflective surface which may reflect the laser beam toward anyone's eyes. Serious eye injury could result.
- Do not set up the tool at a position where the laser beam can cross any person at head height.
- Do not operate the tool around children or allow children to operate the laser. Serious eye injury may result.
- Do not use optical tools such as a telescope or transit to view the laser beam. Serious eye injury could result.
- Turn the tool off when it is not in use. Leaving the tool on increases the risk of staring into the laser beam.
- Store the tool out of reach of children and other untrained persons. Laser tools are dangerous in the hands of untrained users.
- Do not remove or deface warning labels.
- Tool service must be performed only by qualified repair personnel. Repairs, service or maintenance performed by unqualified personnel will void the warranty. Only approved and authorised service technicians can carry out warranty repairs.

WARNING!
Do Not Disassemble The Laser.

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

CAUTION!
Class 2 Laser Product

- Never look into the laser beam directly and intentionally.
- Do not use optical tools to view the laser beam.
- Do not set up the tool at a position where the laser beam can cross any person at head height.
- Do not let children come in contact with the laser.





ITEM CHECKLIST

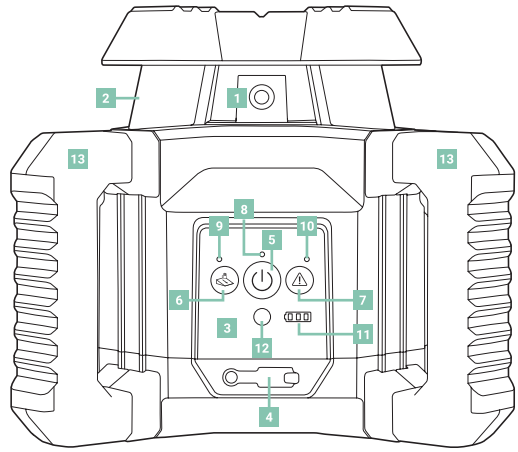
The following items are included with your laser level.

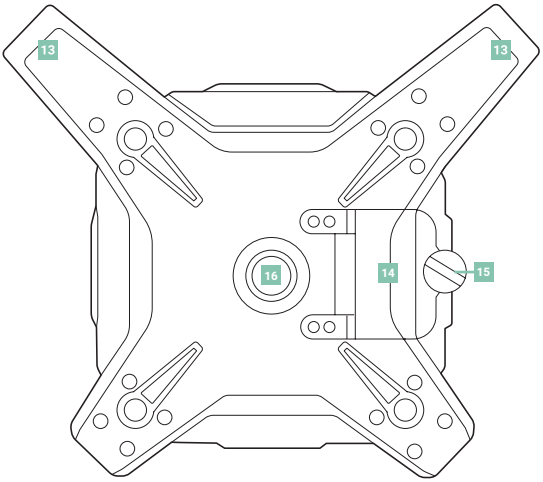
1. Rotary laser level (RTX-MR40)
2. Digital detector (DTX-RH7)
3. IR remote control (RCX-RIR20A)
4. Detector clamp
5. Laser target
6. Laser glasses
7. Lithium-ion battery pack
8. USB-A to USB-C charging cable
9. Hard carry case

LASER LEVEL OVERVIEW

RLX-MR40

1. Rotating laser port
2. Protective lighthouse
3. Control panel
4. Rechargeable battery charging port
5. Power button
6. Manual grade button
7. Tilt (disturbance) alarm button
8. Power LED indicator
9. Manual grade LED indicator
10. Tilt (disturbance) alarm LED indicator
11. Battery LED indicator
12. IR sensor
13. Handle
14. Battery door
15. Battery door thumb screw
16. 5/8" x 11 thread for horizontal operation on a tripod

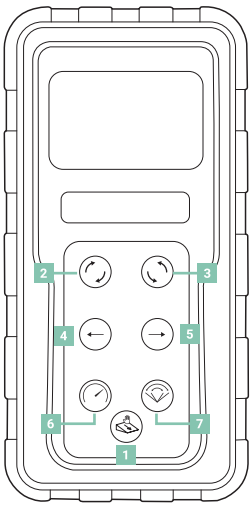


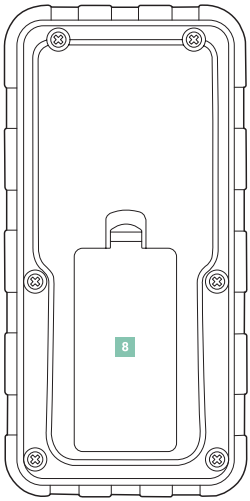


REMOTE CONTROL OVERVIEW

RCX-RIR20A

1. Grade mode button
2. Clockwise rotation button
3. Counter clockwise rotation button
4. Negative grade adjustment button
5. Positive grade adjustment button
6. Speed control button
7. Scanning mode button
8. Battery compartment





POWER SUPPLY

- The remote control is supplied with two AAA alkaline batteries as its power source.

Removing & inserting the alkaline batteries

- Remove the battery cover door and the batteries.
- Insert the new batteries according to polarity and replace the battery door.

USING THE LASER LEVEL

POWER SUPPLY

- The laser level is supplied with a lithium-ion battery as its power source.
- When the battery is running low, the single battery indicator light will flash repeatedly as shown below:

Segment 1 flashing: Battery is running low

Charging the battery

- Insert the charging cable (USB-C) into the charging port on the laser (Fig.1).
- Insert the charging cable (USB-A) into a power adaptor. Insert the power adaptor into a power outlet.
- Progress will be shown by the power indicator display on the laser as below:

Segments 1, 2, 3 flashing: Battery is charging

Constant: Battery is charged

- Charging time is approximately 5 hours for a depleted battery.

Inserting & removing the battery pack

- Remove the battery door thumb screw and remove the battery pack.
- Insert the battery pack according to polarity. Replace the battery door and secure the thumb screw.

WARNING! Only use the supplied batteries.

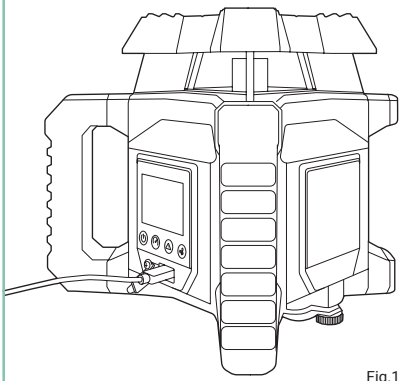


Fig.1

HORIZONTAL MEASUREMENT SETUP

Level surface set up

- Select a place as close and practical to the work site as possible, and ensure that the location is clear of traffic.
- Place the laser level onto a reasonably level surface
- The laser level can also be set-up on a construction tripod (part sold separately).

OPERATION

Powering on

- Press the ***power button*** and the laser level will power on and begin automatically self-levelling. When this levelling process is complete, the penta prism inside the lighthouse will start rotating (Fig.2).
- If the laser level is outside the self levelling range, the laser level will not level causing the laser beam to flash continuously. If this occurs, reposition the laser level onto a level surface until the laser level can level off.

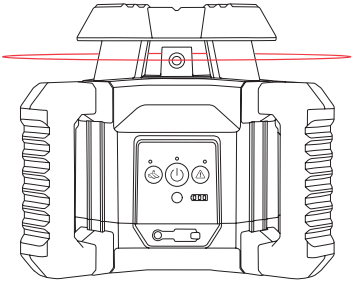


Fig.2

In bright outdoor conditions, visible distance will be significantly reduced. For outdoor use, it is recommended to use the included detector(s).

Powering off

- Press the ***power button*** once and the laser level will power off.

Tilt alarm

- Once the laser level has been levelled off the tilt alarm can be enabled by pressing the tilt alarm button. The tilt alarm indicator light will flash continuously while the tilt alarm is activating and will remain solid when active.
- If the laser level is disturbed while the alarm is active the laser level will stop rotating and the tilt alarm indicator light will flash. Press the ***tilt alarm button*** on the laser level to reset the alarm.

Manual grade operation

- To create a manual grade / slope, press the ***manual grade button*** on the laser level or remote control. The laser will grade on the X-axis.
- Press the grade adjustment arrow buttons on the remote control to adjust the grade (Fig 3 & 4)
- To exit grade mode and return to normal levelling press the ***manual grade button*** on the laser level or remote control.

When in grade mode the laser will not self-level and correct for vibrations and/or disturbances.

Speed control

- Press the ***speed control button*** on the remote control to cycle through various rotational speeds as follows: 0, 300, 600rpm

Scan mode

- To focus the laser beam between two points press the ***scanning mode button*** on the remote control.
- Pressing the button multiple times will adjust the angle of the beam as follows: 0°, 10°, 45°, 90°, 180°
- To cancel scan mode press the ***speed control button*** on the remote control or power the instrument off and on again.

Rotation direction

- When the laser level is in scan mode or at 0rpm, the rotation direction can be changed.
- Press the ***clockwise rotation button*** or ***anti-clockwise rotation button*** on the remote control.

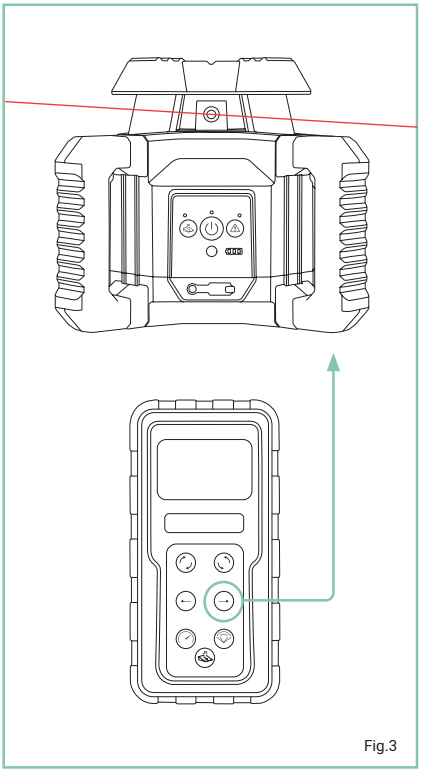


Fig.3

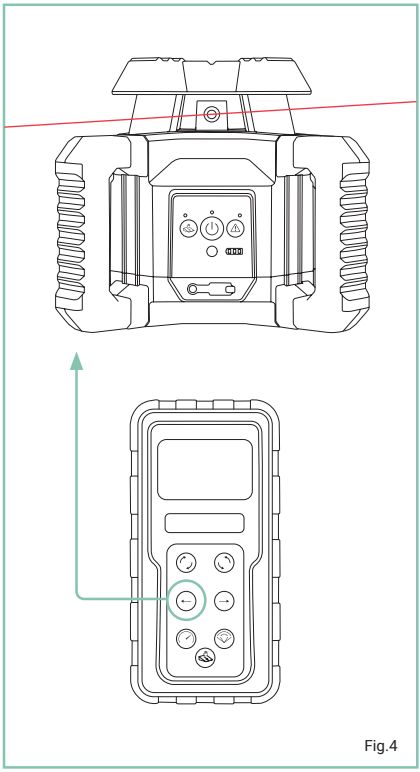


Fig.4

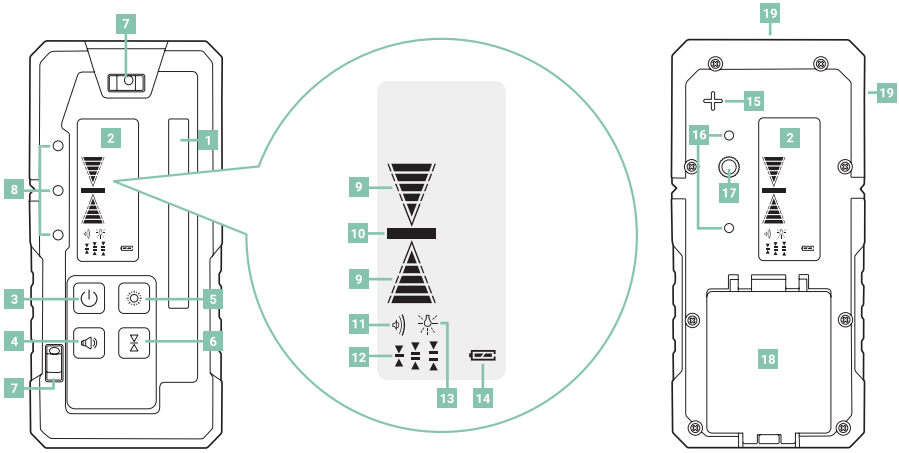
DETECTOR OVERVIEW

DTX-RH7

In bright outdoor conditions, visible distance will be significantly reduced. For outdoor use, it is recommended to use the included detector.

DETECTOR OVERVIEW

1. Laser sensor
2. LCD display screen
3. Power on / off
4. Speaker on / off
5. LCD backlight
6. Detection mode
7. Bubble vial
8. LED indicator
9. Arrow indicator
10. Centre alignment
11. Speaker indicator
12. Detection mode indicator
13. LCD backlight indicator
14. Battery level indicator
15. Speaker
16. Staff clamp thread
17. Staff clamp mounting points
18. Battery compartment
19. Magnets



USING THE DETECTOR

POWER SUPPLY

- The detector is supplied with four AAA alkaline batteries as its power source.

Removing & inserting the alkaline batteries

- Remove the battery cover door and the batteries.
- Insert the new batteries according to polarity and replace the battery door.

SET-UP

Mounting the staff clamp

- Insert the staff clamp screw into the staff clamp thread.
- Rotate the nut until the clamp is secured in place.
- The clamp can be used to attach the detector to a staff or other reference point.

OPERATION

Powering on / off

- Switch the detector on by pressing the ***power button***. The LCD screen will turn on and the speaker will emit a small tone to indicate the instrument is operating.
- The LCD screen will display the battery level, detection mode, and speaker function.
- Press the ***power button*** to turn the detector off.

Operation with the rotary laser level

- Move the detector into the path of the beam. Hold the detector upright for horizontal beams (Fig.5) or rotate 90° for vertical beams (Fig.6).
- The direction arrows or level line on the LCD screen will indicate the position of the laser beam. (Fig.5 & Fig.7).
- When the level position has been located, the speaker will emit a constant beep and show the centre alignment line on the LCD screen (Fig.8).

LCD screen backlight

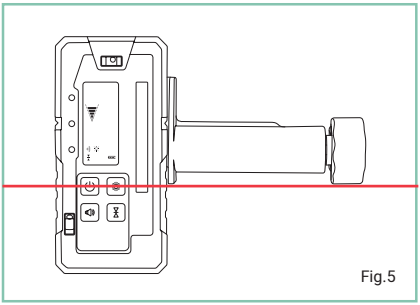
- Press the ***LCD backlight button*** to turn on and off the backlight for the LCD screen.

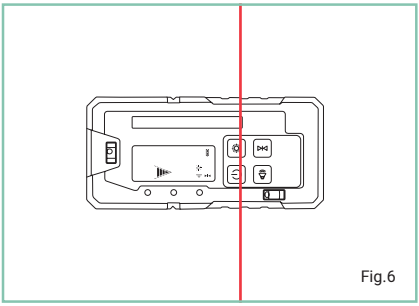
Changing detection mode

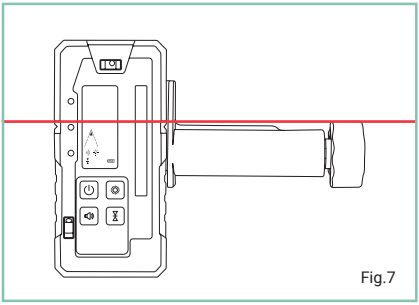
- Press the ***detection mode button*** consecutively to change the detection mode between the following: broad, course and fine.

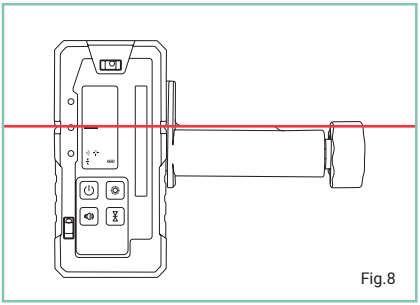
Speaker function

- Press the ***speaker button*** to cycle through the speaker volumes or turn the speaker off.


Fig.5


Fig.6


Fig.7


Fig.8

MOUNTING TO A TRIPOD NOT INCLUDED

A tripod can be purchased from your nearest measurement tool dealer. The below instructions are generic only and set-up methods may vary between models. Refer to the documentation from the tripod manufacturer for details.

- Extend the tripod legs to the required height and ensure the legs are spread wide enough so that the tripod platform is stable. Secure the legs in place (refer to the documentation from the tripod manufacturer for details).
- Place the laser level onto the tripod and mount via the male thread (5/8" or 1/4") into the base until firm. Do not over tighten as this may cause damage to the laser level or tripod.

NOTE: adjustment methods will vary on tripod models. Always ensure that any locking levers are unlocked before making adjustments and returned to the locked position when the adjustment is complete.

- If using an elevating tripod with a measuring scale on the centre column, the height can be adjusted as required.

WARNING! Attaching the laser level to a tripod without the correct thread size may cause damage.

CARE & MAINTENANCE

1. This is a precision measuring tool and should always be handled with care and transported within the carry case provided.
2. Always turn the laser level off when transporting the laser level or moving around the job site.
3. Whenever possible, store the laser level in a dry, shady location.
4. When the laser level is not in use or is being stored, it is highly recommended to remove the battery pack.
5. Calibration of the laser level is recommended: every six months, if ongoing accurate levelling is required, or an impact has occurred.
6. The operator should check the accuracy of the tool before precision levelling is attempted. Failure to do so may result in inaccurate measurements.
7. Clean the laser level with a dry, soft cloth after use in dusty, damp or wet conditions before storing.
8. Smudges and fingerprints may be removed with a damp tissue or a soft, lint-free cloth.

WARRANTY

All Goblin Tools measurement tools are carefully checked and tested to our precise quality assurance standards.

We offer a warranty in accordance with the following conditions:

1. Our warranty provides the correction of deficiencies to the tool once verified by an authorised service centre that the deficiencies were caused by a manufacturing fault within the warranty period.
2. The warranty does not cover:
   a) Calibrations and components that are subject to wear and tear.
   b) Defects in the tool caused by non-compliance with the operation instructions, improper use, abnormal environmental conditions, inappropriate operating conditions or insufficient maintenance.
   c) Defects caused by using accessories or spare parts other than approved parts.
   d) Services or repairs carried out by non-authorised persons.
3. Defects recognised by an authorised service centre as being covered by the warranty shall be corrected either by repair or replacement of the tool.
4. The warranty claim must be lodged within the warranty period. This requires the complete tool with the original sales receipt containing the purchase date and place of purchase. Partial or disassembled tools cannot be submitted for a warranty claim.
5. Services provided under warranty do not lengthen or renew the warranty of the tool.

The above guarantees apply to tools that are purchased in the countries and regions specified online at www.goblintradetools.com

4 YEAR STANDARD WARRANTY PERIOD

1. The warranty period for your tool is 4 years from the date of purchase.
2. The warranty period for batteries, battery packs and chargers is 1 year from the date of purchase.
3. Calibrations are not covered under warranty as they are deemed wear and tear.
4. All products have a standard warranty period, you do not have to register your products to obtain the standard warranty period.
5. To claim under this warranty, the date of purchase of the tool must be documented by an invoice/receipt.

8 YEAR EXTENDED WARRANTY PERIOD

1. The extended warranty is available on selected tools only.
2. You may extend the warranty period for your tool to 8 years from the date of purchase. Accessories are excluded from the warranty extension and remain at the 4 year warranty period.
3. The warranty period for batteries, battery packs and chargers is 1 year from the date of purchase.
4. Calibrations are not covered under warranty as they are deemed wear and tear.
5. To obtain the extended warranty, the registration process must be completed within 30 days from the date of purchase.
6. Failure to register your product online and/or submission of a valid invoice/receipt will void the warranty extension.
7. Please ensure ALL information submitted/uploaded is correct.

Extended warranty is ONLY available via online registration, offline (mailing in of warranty registration) will not be accepted.

Visit www.goblintradetools.com to register.

TROUBLE SHOOTING

Error	Cause & Solution
Laser level does not turn on	The battery pack may require charging or need to be replaced due to age and / or a high number of charging cycles. Check the battery compartment for signs of damage and ensure that the compartment is clean and that the battery terminals are not bent.
Laser level does not remain on for long periods of use.	The battery pack may require charging or need to be replaced due to age and / or a high number of charging cycles. Check the battery compartment for signs of damage and ensure that the compartment is clean and that the battery terminals are not bent.
Laser level does not level off	The laser level may be outside its self levelling range and may require an adjustment before self-levelling can commence. The laser level may have impact damage.
Battery pack will not charge or is not lasting long in use	The battery pack may require charging or need to be replaced due to age and / or a high number of charging cycles. Check the battery compartment for signs of damage and ensure that the compartment is clean and that the battery terminals are not bent.
Detector does not detect the laser beam	Check the batteries on the detector. They may be low and need replacing. Check the laser level and ensure the laser level is producing a beam. Check the line of sight and ensure there is no interference. Check that the laser level and detector are within the operating range.

CUSTOMER SUPPORT

To assist you with any queries or technical questions please contact customer support.

Australia: 1300 905 846

New Zealand: 0800 005 752

United Kingdom: 0808 189 1152

All other countries / regions:

Visit www.goblintradetools.com for more information

Registered Business Address:

74 McKillop Street
Geelong, VIC 3220 AUSTRALIA

RESPONSIBLE DISPOSAL

Please do not throw any electrical equipment (including those marked with the crossed out wheeled bin symbol) in your bin.

This device complies with all necessary standards for the free movement of goods within the EU. This product is an electric device and must be collected separately for disposal according to the European Directive on waste electrical and electronic equipment.

SPECIFICATIONS

Specifications	RLX-MR40
Product code	RLXMR40KT
Warranty	8 Years*
Accuracy	±1.5mm at 30m
Operating range (diameter)	600m with detector
Grade range	-8% to +8%
Levelling range	±5° / ±9%
Laser class	2 Red
Battery life (max per battery pack)	20 hours
Battery type	7.4V 2600mAh Li-ion battery pack
Vertical lines	N/A
Horizontal lines	1
IP rating	54
Weight (g)	1615 (including battery)
Dimensions (mm)	205 x 180 x 180

*With online registration (4 years without registration).
Please refer to page 11 for details.

Whilst every attempt is made to ensure the accuracy of all information within this instruction manual, Hunter Global Group Pty Ltd reserves the right to correct errors or omissions at any time.

NOTES

NOTES



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