

1 YEAR WARRANTY

WARRANTY INFORMATION

This warranty is provided by DATUM of 20 Thackray Road, Port Melbourne VIC 3207.
Phone: 1800 868 258.

Express Warranty

Subject to the exclusions set out below, we warrant that this product will be free from defects in materials or workmanship for 1 year from the date of purchase.

The benefits conferred by this warranty are in addition to all rights and remedies which you may be entitled to under the Australian Consumer Law, and any other statutory rights you may have under other applicable laws. This warranty does not exclude, restrict or modify any such rights or remedies.

Warranty exclusions

This express warranty does not apply where a defect or other issue with the product is caused by normal wear and tear, misuse or abuse of the product.

Consumer guarantees

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.

Warranty claims

To make a claim under this warranty, you must bring the product along with the proof of purchase and any other documentary evidence which you think is relevant to the your place of purchase where the claim will be handled on our behalf during the warranty period specified above. Any cost incurred by you in bringing the product to the place of purchase will be borne by you.

DATUM

STUD DETECTOR

MODEL NUMBERS: DTSF38MM



DATUM

June 15, 2021 8:11 pm



TO PREVENT SERIOUS INJURY, READ
AND UNDERSTAND ALL WARNINGS
AND INSTRUCTIONS BEFORE USE

OPERATING INSTRUCTIONS

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ABOUT YOUR PRODUCT

Thank you for purchasing this DATUM Stud Finder. Please read and understand the content of this instruction manual before using this product. Save this manual for future reference.

SPECIFICATIONS

MAXIMUM SCANNING DEPTH ***

| | |
|--------------------------------|--|
| FERROUS METAL | 38mm |
| NON-FERROUS METAL | 20mm |
| COPPER CONDUCTORS (LIVE WIRES) | 38mm |
| WOOD | Exact: 20mm / Deep: 38mm |
| OPERATING TEMPERATURE | -10° C to 40° C |
| OPERATING HUMIDITY | Metal: 0-85%RH Copper (live wires): 0-30%RH Wood: 0-60%RH |
| STORAGE TEMPERATURE | -10° C to 50° C |
| DIMENSIONS | 160*72*57 mm |
| BATTERY | 9V Battery - Approx. 6 hour battery life |





DATUM is constantly improving its products. All information in this manual is based on the latest product information available at the time of printing. The specifications outlined herein are subject to change without prior notice or obligation.

*** The detection results are affected by the material, shape and size of the detected object, as well as by the material and condition of the detected surface; if the cable is not live, the detection ability is reduced.


INTENDED USE

This instrument is intended for the detection of objects behind dry walls, ceilings and floors. Depending on the material and condition of the base material, it is possible to detect metal objects, conductors and live cables. Any other use is not considered intended and any damages or injuries result from this unintended use is at the operators own risk .

HAZARD SIGNAL WORD DEFINITIONS

| | |
|---|--|
|  | Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. Obey all safety messages that follow this symbol to avoid possible injury or death. |
| DANGER  | Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. |
| WARNING  | Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury. |
| CAUTION  | Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. |
| CAUTION | Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage. |

GENERAL SAFETY RULES

| | |
|---|---|
|  | WARNING Read all safety warnings, instructions, illustrations and specifications provided with this laser level. Failure to follow all instructions listed below may result in personal injury. |
|---|---|

Save all warnings and instructions for future reference.

- Store in a secure location when not in use. This instrument should not be used as a toy or by children.
- Due to technological limitations, the instrument cannot ensure 100% certainty. To rule out hazards, safeguard yourself each time before drilling, sawing or routing in walls, ceilings or floors by means of other information sources, such as building plans, pictures from the construction phase, etc.
- Electromagnetic radiation may interfere with local equipment or devices such as pacemakers or hearing aids. Do not use the instrument without near medical equipment or on the plane.
- Do not use or store the instrument in locations where the temperature may reach or exceed 60°C.
- Use only 9V battery. Replace battery according to the correct polarity when the low battery indicator is displayed.
- Protect the measuring tool against moisture and direct sun exposure.
- Do not disassemble the instrument or attempt to perform any internal servicing as this will void your warranty. Not user serviceable parts included. Only approved and authorised service technicians can carry out warranty repairs.

CARE & MAINTENANCE

- Follow the instructions to ensure good performance.
- Do not expose the unit to extremely cold or hot environments and do not expose it to prolonged external pressure or vibration. Inaccurate measurement results may occur in harsh environments such as strong sunlight, excessive temperature fluctuations, or low battery.
- This instrument must be kept indoors.
- When using the device, keep it away from dust and moisture. Use a clean soft cloth soaked in water to dry and wipe the device. Do not use volatile substances to clean the device. Do not drop, knock or shake the instrument as this will affect the precision.

disconnect power, gas and water before performing the work.

- Concrete, brick and ceramic surfaces have a shielding effect on electric field signals, so when testing on these surfaces, it affects the detection of the AC signal.
- AC signals can be more easily detected when the receiver is connected to the desired cable and switched on. Signals from live cables will spread from both sides of the actual cable, so sometimes the alarm area "live" is much larger than the actual cable.
- Non-voltage cables may be detected as metal objects and thin cables may not be detected.

OPERATION - WOOD STUD DETECTION

There are two detection modes:

Standard scanning mode: detect up to 20mm

Deep scanning mode: detect up to 38mm

- Use the Toggle Switch to switch between Exact or Deep mode.
- Press and hold the Start Button, wait for the green indicator light to turn on before scanning.
- Place the instrument on the desired scanning surface; apply light pressure and move the instrument slowly without lifting it or changing the pressure.

NOTE: When moving the instrument, make sure the instrument is properly placed against the wall. While scanning, if the indicator light is turned off (display screen may still be on), stop scanning and wait for a few seconds until the green indicator light turns on again.

NOTE: During scanning, when there is a signal on the indicator area a on the display screen, it is necessary to release the stop button 1 and start up again to wait for the indicator light to light up the green light.

- When the instrument detects the wood stud, the bar graph will gradually increase as the instrument approaches the wood stud. Continue moving the instrument until the the centre icon is displayed and the buzzer starts beeping.
- Mark the centre with a carpenter pencil as needed.

NOTE: When there's AC signal is detected at the same time, the buzzer sends out continuously short beeps. When there's no AC signal detected, the buzzer will make one continuous long beep.

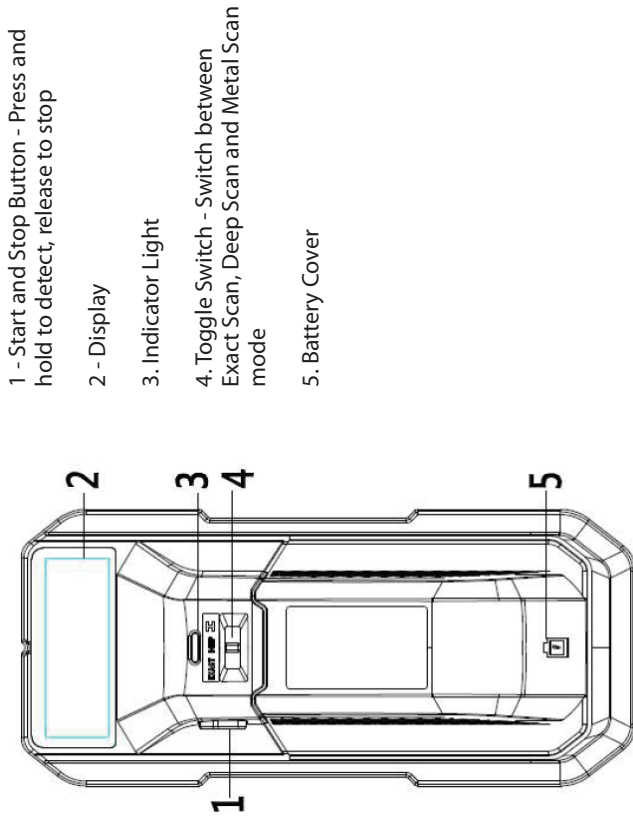
Reminder: Move the scanner back and forth around the object to increase the accuracy of the result.

GENERAL RULES OF OPERATION

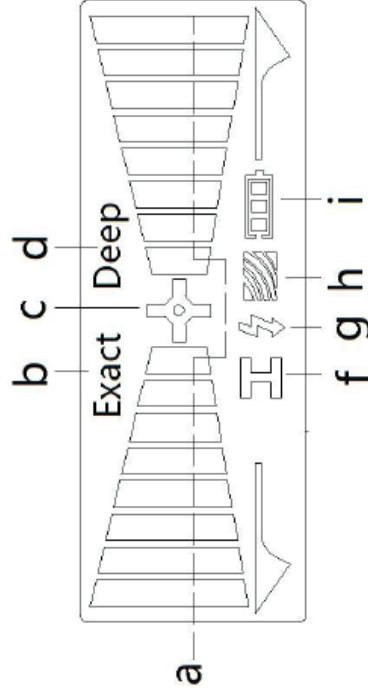
WALL SCANNING

- Environmental influences, such as humidity or closeness to electrical devices, can influence the accuracy of the wall scanning function. Near by devices with strong electric, magnetic field or electromagnetic field can also influence the readings.
- Surface quality and condition of the walls (e.g., moisture, metallic building materials, conductive wallpaper, insulation materials, tiles) as well as the amount, type, size and position of the objects can lead to faulty measuring results. If the cable is not live, the depth of the probe will be reduced.
- Before switching on the instrument, make sure that the sensor area is dry without moisture. Moisture can influence the accuracy. If required, wipe the instrument dry using a cloth.
- Using or operating a transmitter such as a microwave oven, radar in the close proximity can affect the results.
- The instrument may not be able to find buried live cables under certain circumstances, such as when cables are hidden under metal surfaces, in objects with high water content, or in objects with shielding effects. When looking for a live cable, the detection signal is affected by the location of the wire. Therefore, the instrument must repeatedly detect near the detection location or determine whether there is live cable through other sources.
- Static electricity can cause inaccurate detection results, such as When the cable passes over a long distance. To improve the detection results, the free hand should be flat on the wall next to the detection instrument, so that the static electricity can be eliminated.
- For better scanning result, remove metal objects such as rings, watches or bracelets while using the wall detection function. Do not touch the detector or scanned surface with your other hand or any other part of your body.
- Always scan slowly for maximum accuracy and sensitivity.
- Due to technological limitations and factors above, the instrument cannot ensure 100% certainty. To rule out hazards, safeguard yourself each time before drilling, sawing or routing in walls, ceilings or floors by means of other information sources, such as building plans, pictures from the construction phase, etc.

PRODUCT OVERVIEW



- 1 - Start and Stop Button - Press and hold to detect, release to stop
- 2 - Display
3. Indicator Light
4. Toggle Switch - Switch between Exact Scan, Deep Scan and Metal Scan mode
5. Battery Cover



- a - Signal range bar graph
- b - Exact detection mode
- c - Centre icon indicating the centre of the object
- d - Deep detection mode
- f - Metal detection mode
- g - Indicating the scanner receives an AC signal
- h - Wood stud detection mode
- i - Battery level indicator

OPERATION - WALL DETECTION

Make sure there is no moisture on the instrument housing especially the sensor on the back before turning on the detection function. Dry the instrument with a cloth if necessary.

POWER ON AND MEASUREMENT

Press and hold Start Button to turn on the scanner. Release the button to stop scanning and turning the scanner off.

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| CAUTION | <p>In terms of accuracy and scanning depth, the measurement result can be inferior in case of unfavorable surface quality of the base material.</p> <p>If the measuring tool was subject to an extreme temperature change, allow it to adjust to the ambient temperature before switching on.</p> |
|----------------|---|

OPERATION - METAL & AC WIRE DETECTION

Detection of metal objects - steel bar, wire, copper pipe.

- Use the Toggle Switch to switch to metal mode.
- Press and hold the Start Button, wait for the green indicator light to turn on before scanning

NOTE: If there is no metal interference around the instrument, the indicator light will be red and the buzzer will sound, so the instrument needs to be calibrated. Calibration method: place the instrument in an environment free of metal interference, press button 1 continuously in the metal detection mode, until indicator light turns green.

- Place the instrument on the desired scanning surface, apply light pressure and move the instrument slowly without lifting it or changing the pressure.
- When the instrument detects the metal object, the bar graph will gradually increase as the instrument approaches the metal object. When the instrument is closest to the metal, a centre icon appears on the display, and the indicator light turns red with a long continuous beep.

NOTE: When there's AC signal is detected at the same time, the buzzer sends out continuously short beeps. When there's no AC signal detected, the buzzer will make one continuous long beep.

- As the instrument moves away from the object, the bar graph will gradually disappear.

Note: Do not release the Start Button during the whole measurement. If it's accidentally released, repeat the above operation from the start.

Important Note

- In some cases it is not possible to identify live wires in walls accurately and you should not rely solely on the instrument to detect the presence of dangerous live wires. Safeguard yourself before drilling or working in walls each time by other means such as construction drawings or visual identification of cabling or pipe entry points.
- If the wall contains live cables, do not take potentially hazardous measures. Remember to