MULTIFUNCTIONAL STUD FINDER TH710

PLEASE READ ALL OF THE INSTRUCTIONS BEFORE USING THE STUD FINDER TH710.

1.PRODUCT FEATURES / SELECTING THE MODE

This device can detect stud, metal and unshielded AC live wire. Press the Mode Switch Button to swtich to the desired mode.

.STUD SCAN MODE: Three different stud modes for finding wood or metal studs. Choosing the correct mode can improve accuracy of scanning . **If you don't know the depth of the detection, it is recommended to use 1/2" scan mode first. When the 1/2" scan mode is not detected, use 1" or 1 1/2" scan mode instead.**

Stud 1/2 in. Scan Mode: Detects wood or metal studs up to 1/2 in. (12 mm) deep

Stud 1 in. Scan Mode: Detects wood or metal studs up to 1 in. (25 mm) deep

Stud 1 1/2 in. Scan Mode: Detects wood or metal studs up to 1½ in. (38 mm) deep

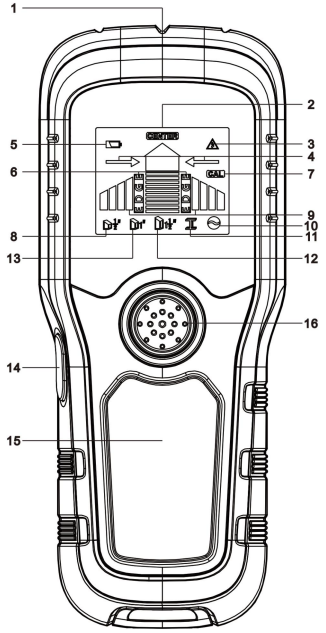
. METAL SCAN MODE: Detects metal up to 2.36 in. (60 mm) deep

. AC SCAN MODE: Detects live unshielded AC wires up to 2 in. (51mm) deep

. Battery Type: 9V battery (6F22)
. Working current: <60ma
. Shutdown current: <1ua

2. PRODUCT ILLUSTRATION

1. Marking Point
2. Stud Center Indication
3. AC Wire Warning
4. Direction Indicator
5. Low Battery Indication
6. Stud edge Indicator
7. Calibration Indicator
8. 1/2 in. Stud Scan Mode
9. Signal Strength Indication
10. AC Mode
11. Metal Mode
12. 1½ in. Stud Scan Mode
13. 1 in. Stud Scan Mode
14. Scan Button
15. Battery Case (Back Of Unit)
16. Power Button & Mode Switch Button



3.INSTALLING / REPLACING BATTERIES

1.Open and remove the rear battery cover

2.Put a new 9V battery into the compartment, noting proper polarity and matching (+) and (-) terminals

3.Close the battery cover

Low Battery Indicator: When the battery level is low, the screen will display a low battery icon, indicating that the battery needs to be replaced.

4. CALIBRATING THE TOOL

The device TH710 can be calibrated anywhere on the wall.

1.Place the device on the surface of the wall, press the Power Button to turn on the device.

2.Press the Scan button to start the calibration, LCD Screen will appear a signal strength from strong to weak. The calibration will be completed when bars decrease and a buzzer beeps one time. **(Keep the tool flat against the wall and begin scanning.)**

Note:

1）It is important to wait for the calibration completed (2–3 seconds) every time before moving the device.

2）Move the device slowly while keeping it flat against the wall. Do not shake or lift the device.

3）For the best scanning results, it is important to hold the device TH710 correctly and move it correctly when scanning

5. IMPORTANT OPERATING TIPS

For optimum scanning results, it is important to properly hold the device TH710 and move slowly when scanning. The following tips will provide more accurate scanning results:

• Hold the handle with your thumb on one side and your fingers on the other side. Make sure your fingertips are on the handle and do not touch the surface or the scanning head being scanned.

• Hold the device steadily, parallel to the studs, and do not rotate the device.

• Keep the device flat against the wall, and slowly slide it across the scanned surface, do not rock, tilt, or press hard the device.

• Avoid placing your other hand, or any other part of your body, on the surface being scanned. This will interfere with the performance of the device.

• If you receive irregular scanning results, it may be a result of humidity, moisture within the wall cavity or drywall, or recently applied paint or wallpaper that hasn't fully dried. While the moisture may not always be visible, it will interfere with the device's sensors. Please allow a few days for the wall to dry out.

• Depending on how close the wires or pipes are to the wall surface, the device may detect them in the same way as studs. Caution should always be used when nailing, cutting, or drilling in walls, floors, and ceilings that may contain these items.

• To avoid accidents, remember that studs or joists are normally spaced 16 or 24 in. (41 or 61 cm) apart and are 1½ in. (38 mm) in width.

Anything closer together or a different width may not be a stud, joist, or firebreak. Always turn off power when working near electrical wires.

SCANNING DIFFERENT SURFACES

This device is for use on dry interior walls only.

Freshly painted walls: May take one week or longer to dry after application.

Notes: Sensing depth and accuracy can vary due to moisture, content of materials, wall texture, and paint.

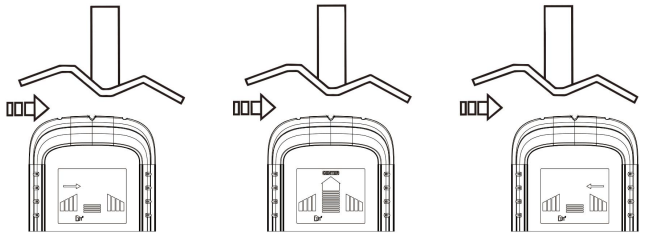
This stud finder is not designed to scan materials such as: Ceramic floor tile Carpeting and padding Lath and plaster walls Foil covered insulation board Glass or any other dense material.

WARNING Do not rely exclusively on the device to locate the objects behind the scanned surface, use other sources of information for help whenever possible. These additional sources include construction plan drawings, such as visible entry points and wiring of walls in basement pipes, and standard 16 and 24 in. (41 and 61 cm) Stud spacing practices.

6.SCANNING IN STUD MODE

1. Move the device slowly from left to right across the scanning surface. When the device approaches the stud, A bottom arrow indicator will light up. and EDGE indicator will light up when the device approaches near the edge, indicating location of the stud edge.

2.Continue sliding the device. When the center of a stud is located, the signal full bar, the CENTER indication will all display and the buzzer will beep. In cases of thicker walls, when the center of the stud is located, not full bars will display on the screen. If you still cannot locate a stud, try Stud 1 in. Or Stud 1 1/2 in. Scan mode.



Note: In cases of the screen "CAL" icon flashes and the buzzer alerts when moving the device, it may be incorrectly calibrated, please move the device to a different position to re-calibrate.

7.SCANNING IN METAL MODE

Metal Scan mode has interactive calibration to suit its sensitivity to the metal, which can be used to find the precise location of metal objects in walls, floors and ceilings. Maximum sensitivity is ideal for quickly finding the approximate location of metal.However sensitivity can be reduced by calibrating the device closer to metal. When the sensitivity decreases, the area where metal is indicated will be smaller. In both cases, the metal target is in the center of the area where the device indicates metal is present.

For maximum metal sensitivity, turn on the device in the air by pressing the Scan button, keep the device still before the calibration has completed. This will ensure that it calibrates away from any metal objects.

Note: Under metal detecting mode, please make sure that it is far away from other metals, wires and objects with strong magnetic field when power on and calibration.

Figure A

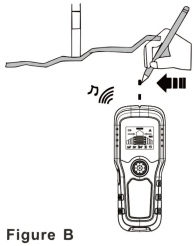


Figure B

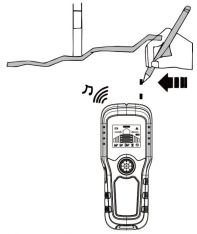
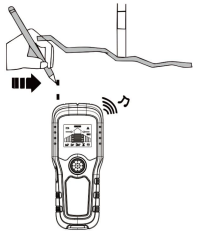


Figure C



1. (Figure A) While holding the Scan button, press the device flat against the wall and slowly slide the device across the surface. Mark the point where you get the highest metal indication (the most Middle bars on the screen). If it is a strong target, the top indicated arrow will show, and a steady beep will sound. Continue in the same direction until display bars reduce. Reverse direction and mark the spot where the display bars peak from the reversed direction.

The midpoint of the two marks is the location of the center of the metal object.

If the device indicates metal over a large area, you can refine the scanning area to more accurately locate the metal target by following below steps 2 and 3.

2.(Figure B) To further pinpoint the location of the metal target, scan the area again. Release the Scan button and then turn the device back on, this time starting on the wall over one of the previous marks. This will reset the device to a lower sensitivity and narrow the scan area.

3.(Figure C) To continue to reduce sensitivity and further refine the scanning area, repeat step 2. This procedure can be repeated multiple times to narrow the field even further. Scan in the opposite direction and mark the peak highest point to accurately locate the metal position.

Note: If any bars display on the screen, metal is present. Small targets or targets deep within the surface may only illuminate some of the bars and not the center line or audio tone. In this case, use the highest indication to determine the metal position.

8.SCANNING IN AC MODE

AC Scan Mode has interactive calibration. The calibration and detecting process is the same as metal mode.

1.(Figure A) Press Mode Switch Button to AC Scan mode. Press the device flat against the wall, then press scan button. Wait for the beep to confirm calibration has completed before moving the device. Once calibration has completed, move slowly the device across the scanning surface.

Mark the location where you get the highest AC indication (the most Middle bars on the screen). If it is a strong target, the top indicated arrow will show, and a steady beep will sound. Continue in same direction until display bars reduce.

Reverse direction and mark the spot where the display bars peak from the reversed direction. The midpoint of the two marks is the location of the center of the live AC wiring.

If the device indicates live electricity over a large area, you can reduce the sensitivity of the device to refine the scanning area and more accurately locate the live AC wiring by following steps 2 and 3.

2.(Figure B) To further pinpoint the location of the live AC wiring, scan the area again. Release the Scan button and then turn the device back on, this time starting on the wall over one of the previous marks. This will reset the device to a lower sensitivity and narrow the scan area.

3.(Figure C) Scan in both directions as in Step 2. The area indicated should become smaller so you can more precisely identify the location of live AC wires. This procedure can be repeated multiple times to narrow the field even further. Scan in the opposite direction and mark the peak highest point to accurately locate the AC position.

Note: If any bar displays on the screen, AC is present. Small targets or targets deep within the surface may only illuminate some of the bars and not the center line or audio tone. In this case, use the highest indication to determine the AC position.

Note: AC Scan will only detect live (hot) unshielded AC wiring. Please refer to the WARNING statement in number 9, AC WARNING Detection, for more important details and warnings about AC detection.

9.AC WIRE WARNING

AC WARNING detection feature works continuously in Stud 1⁄2 in., Stud 1 in., Stud 1 1⁄2 in. Scan modes, and Metal Scan Mode. When live AC voltage is detected, the AC detection warning indicator will appear in the display. If scanning begins over a live AC wire, the AC Wire Warning will show continuously. Use extreme caution under these circumstances or whenever live AC wiring is present.

WARNING Electrical field locators may not detect live AC wires if wires are more than 2 in. (51 mm) from the scanned surface, in concrete, encased in conduit, present behind a plywood shear wall or metallic wall covering, or if moisture is present in the environment or scanned surface.

DO NOT ASSUME THERE ARE NO LIVE ELECTRICAL WIRES IN THE WALL.

DO NOT TAKE ACTIONS THAT COULD BE DANGEROUS!

IF THE WALL CONTAINS A LIVE ELECTRICAL WIRE. ALWAYS TURN OFF THE ELECTRICAL POWER, GAS, AND WATER SUPPLIES BEFORE PENETRATING A SURFACE. FAILURE TO FOLLOW THE INSTRUCTIONS MAY RESULT IN ELECTRIC SHOCK, FIRE, AND/OR SERIOUS INJURY OR PROPERTY DAMAGE.

Always turn off power when working near electrical wires. ***V1.0***