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UT387A Stud Sensor UT387A User Manual

Caution: Please read the manual carefully before use. Observe the safety regulations and the cautions in the manual to make best use of the Stud Sensor. The company reserves the right to modify the manual.

UNI-T Stud Sensor UT387A

Stud Edge V Groove
LEDs Indication
Live AC Detection Indicator
Target Indication Bars
StudScan Mode
"CAL OK" Icon
ThickScan Mode
Mode Switch
Power Button

Stud Sensor UT387A Application (Indoor drywall):

UT387A is mainly used to detect the wood stud, metal stud, and live AC wires behind the drywall.

▲ Note: The detection depth and accuracy of UT387A are affected by factors such as the ambient temperature and humidity, the texture, density, and moisture content of the wall, the humidity and width of the stud, the curvature of the stud edge, etc. UT387A can effectively scan the following wall materials: Drywall, plywood, hardwood flooring, coated wooden wall, wallpaper.

UT387A is not designed to scan the following wall materials: Carpets, tiles, metal walls.

Technical Data (Test condition: 20°C - 25°C , 35-55%RH): Battery: 9V Alkaline battery

- StudScan Mode: 19mm (maximum depth)

ThickScan Mode: 28.5mm (stable detection depth)

Live AC Wires (120V 60Hz/220V 50Hz): 50mm (max) Low battery detection: If the battery voltage is too low when power on, the device will send an error alarm, and the red and green LEDs will flash alternately with buzzer beeping, the battery needs to be replaced.

Error checking prompt (only in StudScan mode): When there is wood or object with high density right under the checking area, the device will send an error alarm, and the red and green LEDs will flash alternately with buzzer beeping. Operating temperature: $-19^{\circ}F \sim 120^{\circ}F (-7^{\circ}C \sim 49^{\circ}C)$ Storage temperature: $-4^{\circ}F \sim 150^{\circ}F (-20^{\circ}C \sim 66^{\circ}C)$

Operation Steps:



A. Installing The Battery:

As shown in the figure, push in the battery door tab of the device and open the door. Insert a new 9-volt battery, matching the positive and negative terminal marks on the back. Snap the battery into place and close the door. DO NOT press the battery hard if battery is not in place.

B. Detecting Wood Stud

- ① Hold the UT387A and position it vertically straight and flat against the wall.
- ▲ Warning: Avoid griping over the finger stop, hold the device parallelto the studs. Keep the device flat against the surface, do not press it hard, and do not rock or tilt the device.
- ② Select sensing mode, move selector switch to left for StudScan and right for ThickScan.
- Note: Select sensing mode according to different wall thickness. For example, select StudScan mode when the thickness of the drywall is less than 20mm, select ThickScan mode when it is greater than 20mm.
- ③ Calibration: Press and hold the power button, the device will calibrate automatically. (If the buzzer beeps consecutively, it indicates low battery power, replace the battery and power on to redo the calibration). During the auto calibration process, The green LED flash until the calibration is completed. If the calibration is successful, the LCD will display the "StudScan" / "ThickScan" + "CAL OK" icon and you can start using the device to scan wood.
- ▲ Note: During calibration, keep the device flat against the wall, do not rock or tilt. Avoid placing your other hand, or any other part of your body on the surface being scanned. A few seconds after calibration, if the red and green LEDs keep flashing alternately and the buzzer beeps continuously, release the power button and change to another position (5-10cm away from the previous position) to redo the calibration.

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When scanning wood in StudScan mode and the instrument sends an error alarm with red and green LEDs flashing alternately and buzzer beeping, it indicates that there is wood or object with high density right under the checking area, user must release the power button and change to another position (5-10cm away from the previous position) to redo the calibration.

- ④ Continue to hold the power button, then slowly slide the device to scan on the wall. As it approaches a stud, the target indication bars will appear on the LCD.
- S When the target indication bars are full, the green LED is on and the buzzer beeps, the bottom of the V groove corresponds to one edge of the stud, you can mark it down with a marker.
- ⑥ Do not release the power button and continue to scan in the original direction. When the target indication bars go down and back up to full again, the green LED and buzzer will both be on, the bottom of the V groove corresponds to the other edge of the stud, mark it down and the midpoint of these two markers is the midpoint of the stud.

C. Detecting Live AC Wires



Both the StudScan and ThickScan modes can detect live AC wires, the maximum distance of detection is 50mm. When the device detects a live wire, the live hazard

symbol appears on the LCD and the red LED light is on.

A Note: Shielded wires, wires inside plastic pipes, or wires in metal walls cannot be detected.

A Note: When the device detects both wood and live AC wires at the same time, it will first light the red LED.

A Warning: Do not assume there are no live AC wires in the wall. Do not undergo construction or hammer nails before turning off power.

Maintenance and Clean

Clean the stud sensor with a dry and soft cloth. Do not clean it with detergents or other chemicals. The device has gone through rigorous quality testing prior to delivery. If any manufacturing defect is found, please contact your local sales representative. Do not disassemble and repair the product yourself.

Waste Disposal

Damaged device and its packaging shall be recycled in compliance with the local environmental protection requirements.

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