

SW-109U StudTech Pro™



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The Ryobi Electronic **StudTech Pro™** locates wood and metal studs, metal rebar and hot unshielded AC wiring in walls. It features a large LCD for easy read, a high impact case for durability, and a soft touch rubber grip.

WARRANTY

This product is a consumable item. Therefore it is warranted against defective parts and labor only and not misuse or deterioration of the product through normal wear and tear for a period of 2 years from date of purchase.

OPERATING NOTES

Depending on proximity of electrical wiring or pipes to the wall surface, the **StudTech Pro™** may detect them in the same manner as wood or metal studs. Caution should always be used when nailing, cutting or drilling in walls, floors and ceiling that may contain these items. To avoid electrical, plumbing, etc. remember that studs or joists are normally spaced 406mm or 610mm apart and are 38mm in width. Anything closer together of a different width may not be a stud, joist or rebar. Always turn off the power when working near electrical wires.

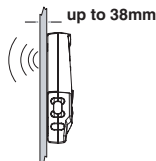


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SW-109U StudTech Pro™

FEATURES

- Toggle switch to select detection of wood/metal studs (drywall depth up to 19mm for wood or 25mm for metal), deep wood/metal studs (drywall depth up to 38mm for wood or 51mm for metal), and metal rebar
- LCD bar graph readout



- (not for Deep metal mode)
- Soft rubber grip
- High impact housing
- Auto power off after 2 minutes when left unattended
- Low battery indicator
- 9 Volt battery included

SPECIFICATIONS

- Toggle "MODE" switch to "METAL" to detect metal studs up to 19mm behind drywall.
- Toggle to "WOOD" mode to detect wood studs up to 19mm behind drywall and metal studs up to 25mm behind drywall.
- Toggle to "DEEP" mode to detect wood studs up to 38mm behind drywall and metal studs up to 51mm behind drywall.
- Toggle to "DEEP METAL" to detect metal rebar up to 51mm deep in concrete.

INSTALLING THE BATTERY

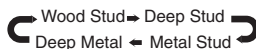
- Open battery door at the back of unit.
- Attach a 9 Volt battery to the connector.
- Put the battery into the compartment.
- Close battery compartment door.

POWER ON

- Press and release the "ON/OFF" button to power on the unit.

SELECT MODE

- Choose desired detection mode by cycling the various modes with the "MODE" button on the front face of unit.



Reminders:

Wood Stud Mode - detect wood studs in drywall up to 19mm deep and detects metal studs in drywall up to 25mm deep.

Deep Stud Mode - detect wood studs in drywall up to 38mm deep and detects metal studs in drywall up to 51mm deep.

Metal Stud Mode - detect metal studs in drywall up to 19mm deep.

Deep Metal Mode - detect metal rebar within 51mm.

CALIBRATION

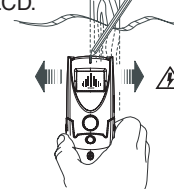
- When the unit powers on or the detection mode is changed, the unit needs an initial calibration before use for about 2 seconds. Hold the unit in still position flat against the testing surface until the bar graph on LCD disappears, and a beep sound is heard, indicating successful calibration.

Reminders:

- The user is required not to move the unit during calibration.
- If the calibration fails, the LCD will display the "Zebra" display. The user should power off and re-calibrate the unit by powering it on again several inches left or right from the previous location.

SCANNING

- All modes except Deep Metal have sequential level indicators (bar graph) on the LCD.
- After calibration has finished slowly slide unit across wall right or left. As you begin to approach a stud, the sequential levels on the LCD will increase, and peak at the stud edge. Mark this spot to indicate stud edge.
- Continue scanning beyond the marked spot until the peak level disappears then slide unit in reverse direction to locate the other edge of stud. Mark this second spot. Center of stud is the middle between the two marks.



Reminders:

- Deep Metal mode does not have any intermediate levels, and will turn on all level segments simultaneously when metal is detected.

- If no stud was found, the unit may have been placed over a stud or the drywall is too thick. The user should re-calibrate the unit by powering it on again several inches left or right from the previous location, or use Deep Stud mode for scanning studs behind drywalls.

AC DETECTION

- Press the AC button "⚡" to toggle the AC detection ON and OFF. The "AC" symbol will be displayed to indicate that AC detection is now active.
- Sweep the unit against the wall, when hot unshielded AC wiring presence is detected, the "lightning" symbol will be displayed and a high pitch sound will be generated.

POWER OFF

- Press and release the ON/OFF button to power off the unit.

Reminders:

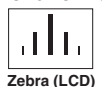
- The unit will power off after being left unattended for 2 minutes. The built-in timer for the auto-off function is reset when the mode button is pressed or the peak indicator of the bar graph is turned on.
- The hourglass symbol "⌚" will flash for 30 seconds before power off.
- The unit will retain the status of selected mode and AC function after power off.

LOW BATTERY DETECTION:

- When the battery is close to empty, the LOW BATTERY icon "🔋" will begin to flash.

Reminders:

- Remove the battery to prevent deterioration if the unit is to be stored for an extended period of time.

Situations	Possible Causes	Solutions
No indication.	<ul style="list-style-type: none"> • No studs in that area. • Thickness of drywall over scan depth. • You have accidentally calibrated over a stud. 	<ul style="list-style-type: none"> • Move several inches to the left or right and start again. • Select "Deep Stud Mode" and start again.
LCD shows "Zebra"  Zebra (LCD)	<ul style="list-style-type: none"> • Calibration on wall of too high density such as wet painted drywall, concrete and etc. • Calibration began on dense part of wall. • Unit not flat against wall. • Unit was rocked or lifted during calibration. 	<ul style="list-style-type: none"> • Switch off unit, move over a few inches, and start again. • Always hold StudTech Pro™ parallel to stud or joist and move across it.
Indications in too many places.	<ul style="list-style-type: none"> • Detect other objects besides studs. • Electrical wiring and metal/plastic pipes may be near or touching back surface of wall 	<ul style="list-style-type: none"> • Because studs are normally spaced 406mm or 610mm apart and are 38mm wide, beware of anything closer together or of a different width. • On rough surfaces, place piece of cardboard on wall, scanning through it to help slide unit more smoothly
<p>⚠ WARNING: To avoid risk of electric shock, ALWAYS turn power off when working near electric wires. Avoid nailing, cutting or drilling in walls where electrical or plumbing may be present. Do not permit children to use this device. It is not a toy.</p>		