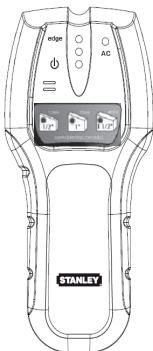
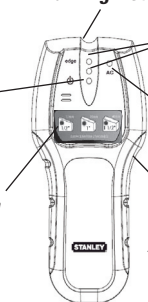


STANLEY®

77-115

Stanley Stud Sensor 150



STANLEY**77-115****GB****Marking Notch****Edge Detection
LED's****Power LED****Live Wire
Warning LED****Depth Detection
Mode Indicator****Activation Button/
Depth Detection
Mode Selection**

Stanley Stud Sensor 150

The Stud Sensor 150 uses electronic signals to locate the edges of studs, joists or live AC wires through drywall or other common building materials. Once the edge of a stud has been detected, the Stud Sensor 150 displays two red LED's and sounds an audible tone. A pencil notch allows you to easily note the stud edges on the wall.

OPERATING INSTRUCTIONS

Battery:

Open door on back of unit and connect a 9-volt battery to clip. Put battery back into case and close back battery door.

Usage:

① Hold the Stud Sensor 150 flat against the surface, making firm contact.

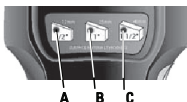
- Press in and hold the activation button. The green and top red LED's will light. When the red LED goes off, the unit is calibrated. Keep holding the activation button during all of the following procedures.

Note: While calibrating, the Stud Sensor 150 must not be placed directly over a stud, dense material such as metal, or over a wet or newly painted area, or it will not properly calibrate. If the Red LED stays lit, move to a different location and try again.

Selecting Scanner Depth Mode

1. Depress and hold Activation button once (1X) to select 1/2" read depth detection. The 1/2" mode LED will illuminate. The unit will calibrate, followed by a beep.
2. "Double click"/ depress (2x) and hold the Activation button to select the 1" read depth mode. The 1" mode LED will illuminate. The unit will calibrate, followed by a beep.
3. Triple click"/ depress (3x) and hold the Activation button to select the 1 1/2" read depth mode. The 1 1/2" mode LED will illuminate. The unit will calibrate, followed by a beep.

IMPORTANT: Unit will automatically shut off if the Activation button is released for longer than 1 second following steps 1, 2 or 3 above.



A = Wood or metal stud depth detection up to 1/2".

B = Wood or metal stud depth detection up to 1".

C = Wood or metal stud depth detection up to 1 1/2".

Detecting Wood/Metal Studs-

2 Slide the Stud Sensor 150 slowly across the surface in a straight line. As it detects a stud edge, the two red LED's will go on.

- Use the handy pencil notch located at the top of the unit to mark the stud edge.

3 4 Repeat the above steps from the other side of the stud. Coming from the opposite direction, mark the other edge of the stud. The midpoint of the two marks indicates the stud center.

Detecting Live AC Wires-

The live wire red LED will illuminate, warning when in the proximity (typically within a 4-18" distance) from a live wire.

Static electrical charges that can develop on drywall and other surfaces will spread the voltage detection area many inches on each side of the actual electrical wire. To aid in locating the wire position, scan holding the unit 1 1/2" away from the wall surface or place your other hand on the surface approximately 12" from sensor.

Warning: Shielded wires or wires in metal conduits, casings, metalized walls or thick, dense walls will not be detected. Always turn off AC power when working near wiring.

The Stud Sensor 150 is designed to detect 110 volts (US version) and 230 volts (European version) AC in live electrical wires.

Cautions on Operating

You should always use caution when nailing, cutting and drilling in walls, ceilings and floor that may contain wiring and pipes near the surface. Always remember that studs or joists are normally spaced 16 inches or 24 inches apart and are 1-1/2 inches in width. To avoid surprises, be aware that anything closer together or of a different width may not be a stud.

OPERATING TIPS

Prevent Interference

To ensure best performance from the Stud Sensor 150, keep your free hand at least 6 inches away from the unit and wall surface while testing or scanning surfaces.

Conventional Construction

Doors and windows are commonly constructed with additional studs and headers for added stability. The Stud Sensor 150 detects the edge of these double studs and solid headers as a single, wide stud.

Surface Differences

Wallpaper – There will be no difference in the function of the Stud Sensor 150 on surfaces covered with wallpaper or fabric unless the coverings used contain metallic foil or fibers.

Ceilings – When dealing with a rough surface such as a sprayed ceiling, utilize a piece of cardboard when scanning the surface. Run through the calibration technique described earlier with the piece of cardboard too, to assure best performance of the unit.

Also, it is particularly important in this application to remember to keep your free hand away from the unit.

IMPORTANT SAFETY NOTICE

Insure proper detection of live wires. Always hold the Stud Sensor 150 in the handle area only. Grasp between fingers and thumb while making contact with your palm.

Specifications:

Depth Range-

Wood or Metal studs Up to 1 1/2" (38mm) through drywall

Live AC wires (120VAC) Up to 2" (50mm) through drywall

Accuracy- Scanning and marking the stud from two sides

Stud center $\pm 1/8"$ (3mm) for wood $1/4"$ to $1"$

(6-25mm) deep

$\pm 1/4"$ (6mm) for wood $1"$ - $1 1/2"$

(25-38mm) deep

$\pm 1/4"$ (6mm) for metal

(At 35-55% relative humidity)

Shock Resistance: Up to 3 feet (1m) dropped onto concrete

Operating Temperature: $+32^{\circ}\text{F}$ to $+120^{\circ}\text{F}$ (-0°C to $+49^{\circ}\text{C}$)

Storage Temperature: -4°F to $+150^{\circ}\text{F}$ (-20°C to $+66^{\circ}\text{C}$)

ENVIRONMENTAL PROTECTION

Recycle raw materials instead of disposing as waste.

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

Do not throw used batteries into house waste, fire or water but dispose of in an environmentally friendly manner according to the applicable legal regulations.



WARRANTY

One Year Warranty

Stanley Tools warrants its electronic measuring tools against deficiencies in materials or workmanship for one year from date of purchase.

Deficient products will be repaired or replaced, at Stanley Tools' option, if sent together with proof of purchase to:-

Stanley UK Sales Limited,
Gowerton Road,
Brackmills,
Northampton
NN4 7BW

This Warranty does not cover deficiencies caused by accidental damage, wear and tear, use other than in accordance with the manufacturer's instructions or repair or alteration of this product not authorised by Stanley Tools.

Repair or replacement under this Warranty does not affect the expiry date of the Warranty.

To the extent permitted by law, Stanley Tools shall not be liable under this Warranty for indirect or consequential loss resulting from deficiencies in this product.

This Warranty may not be varied without the authorisation of Stanley Tools.

This Warranty does not affect the statutory rights of consumer purchasers of this product.

This Warranty shall be governed by and construed in accordance with the laws of England and Stanley Tools and the purchaser each irrevocably agrees to submit to the exclusive jurisdiction of the courts of England over any claim or matter arising under or in connection with this Warranty.

WARNING:

Protect Your Eyes, Wear Safety Goggles.



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Issue 1 11/07