

STANLEY

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77-150

IntelliSensor™ Plus Deep Read Stud Sensor

INSTRUCTION
MANUAL



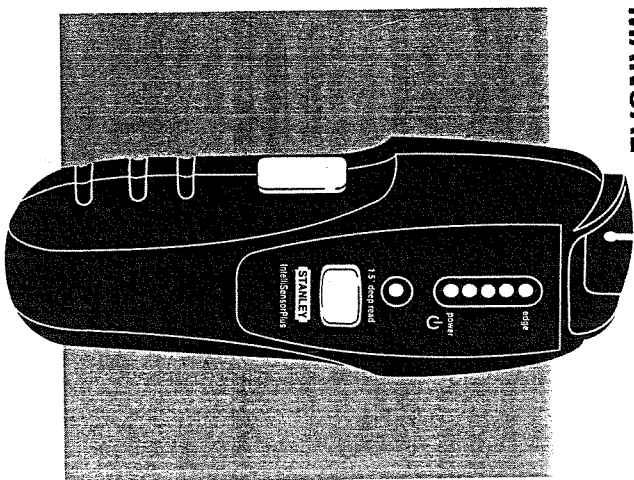
*Work safely with tools.
Always wear safety goggles.*

*Soyez prudent quand vous travaillez avec des
outils. Portez toujours des lunettes de sécurité.*

*Al usar herramientas, trabaje con seguridad.
Siempre use gafas de seguridad.*

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New Britain, CT 06053
Web Site: <http://www.stanleyworks.com>

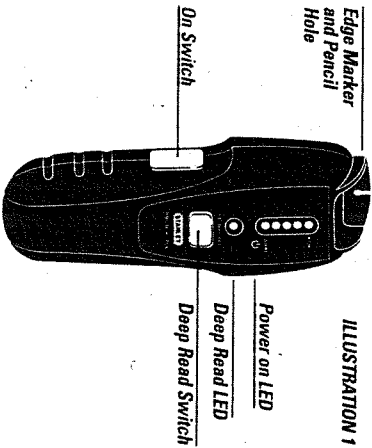
T5041



Stanley IntelliSensor™ Plus Deep Read Stud Sensor (77-150)

The STANLEY IntelliSensor™ Plus uses electronic signals to locate the exact position of studs or joists through drywall and other common wall materials. Once the edge of the stud has been detected, the IntelliSensor™ Plus displays visual and audio indications that allow you to easily pinpoint its center position. A pencil hole allows you to quickly note the location of the stud edges. The IntelliSensor™ Plus allows the user to locate studs with two different depth sensitivities: Up to 3/4 inch for most common applications and 1-1/2 inch for thicker materials such as tiled walls.

The IntelliSensor™ Plus provides automatic calibration in both depth modes with over stud location indication and heavy duty ABS construction.

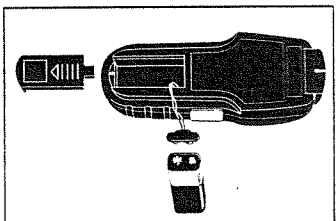


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OPERATING INSTRUCTIONS

Battery

Open door on back of unit and connect a 9-volt battery to the clip. Place battery back into case and slide battery door back on.



Calibration

Note: While calibrating, the IntelliSensor™ Plus must not be placed directly over a stud, dense material such as metal, wet or newly painted areas as this will prevent the unit from calibrating properly. If this is done over wood the unit will give no indication when moved away from the area and over wood studs. It will indicate metal. If this is done over metal the unit will give no indication when moved away from the area. Move to a different location and try again.

3/4 inch depth

1. Hold the IntelliSensor™ Plus flat against the surface, making firm contact. Press and hold the side mounted "ON" switch. Keep holding the "ON" switch during all the following procedures.
2. The top Red LED and Green Power LED will light and the beeper will sound during calibration. When calibrated the Green Power LED remains on and the Red LED and beeper shut off; this indicates the IntelliSensor™ Plus calibrated correctly.
3. The unit is now ready to look for studs.

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1-1/2 inch depth

1. Hold the IntelliSensor™ Plus flat against the surface, making firm contact. Press the "Deep Read" switch and the side mounted "ON" switch together. Release the "Deep Read" switch and continue holding the "ON" switch during all the following procedures.
2. The top Red LED, Green "Deep Read" LED and Green "Power" LED will light while the beeper sounds during calibration. When calibrated the Green "Power" and "Deep Read" LEDs remain lighted and the Red LED and beeper shut off; this indicates the IntelliSensor™ Plus calibrated for "Deep Read" correctly.
3. The unit is now ready to look for studs.

Usage

3/4 and 1-1/2 inch depths.

1. Slide the IntelliSensor™ Plus slowly across the surface in a straight line (see Illustration 3). As it approaches the stud edge the Red LEDs will go on, starting with the bottom LED. At the stud edge the top LED will light and an audio tone will sound.
2. Use the pencil hole marker to mark the stud edge.
3. As the unit passes the other edge the audio tone will stop and the top Red LED will turn off. The lower LEDs will light as the unit moves away from the edge.
4. Double check the stud location by coming from the opposite direction. Make additional

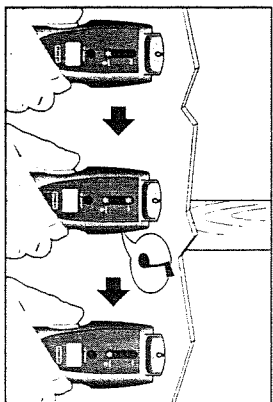


ILLUSTRATION 3

markings. The center of the stud is located between the two edge marks.

Note: If the unit was calibrated on 3/4 inch depth and the 1-1/2 inch Deep Read button is pushed the unit will continuously beep indicating the need to re-calibrate.

Cautions on Operating

The proximity of electrical wiring or pipes to the surface of the wall may cause the IntelliSensor™ Plus, especially in Deep Read mode, to detect them as studs. You should always use caution when nailing, cutting or drilling in walls, ceilings and floors that may contain these items. Always remember that studs or joists are normally spaced 16 inches or 24 inches apart and 1-1/2 inch in width. To avoid surprises be aware that anything closer together or of a different width may not be a stud, joist or fire break. **WHEN WORKING NEAR ELECTRICAL WIRES ALWAYS TURN THE POWER OFF.**

OPERATING TIPS

Use a Fresh Battery

Always test the battery before use. Place the IntelliSensor™ Plus in one hand and away from any surface. Press and hold down the side switch. The green LED should go on. Now, move your free hand in an open-faced position toward the back of the unit. When your hand is 2–3 inches from the back of the unit, the LEDs will begin to light up. The lights should go off as you move your hand away from the unit. If you do not see the LEDs react as described above, replace the battery.

Prevent Interference

To ensure best performance from the IntelliSensor™ Plus product, keep your free hand at least 6 inches away from the unit while testing or scanning surfaces.

Conventional Construction

Doors and windows are commonly constructed with additional studs and headers for added stability. The IntelliSensor™ Plus detects the edge of these double studs and solid headers and emits and holds an audio signal as it completely crosses them.

Surface Differences

Wallpaper — There will be no difference in the function of the stud sensor on surfaces covered

with wallpaper or fabric unless the coverings contain metallic foil or fibers.

Plaster and Lath — Unless the plaster and lath is exceptionally thick or has metal mesh in it, there will be no problem with the unit functioning properly. Best results will be typically achieved with the Deep Read mode.

Ceilings or Textured Surfaces — When dealing with a rough surface such as a sprayed ceiling, use a piece of cardboard when scanning the surface. Run through the calibration technique described earlier WITH the piece of cardboard between the stud sensor and the surface. Also, it is particularly important in this application to remember to keep your free hand away from the unit.

Specifications

Utilizing the procedure of scanning and marking from two sides, the IntelliSensor™ Plus will find the center of wood or metal (iron or steel) studs through 3/4 or 1-1/2 inch surfaces with an accuracy of 1/8 inch.

Battery:	9 volt
Shock Resistance:	Resistant to shock from 5 feet when dropped onto a hard surface.
Operating Temperature:	+20°F to +120°F (-7°C to +49°C)
Storage Temperature:	-20°F to +150°F (-29°C to +66°C)

Warranty

The Stanley Works warrants the IntelliSensor™ Plus against defects in material and workmanship for 1 year from the date of purchase. Deficient products will be repaired or replaced at Stanley's discretion if sent to:

Kannapolis Distribution Center
Quality Assurance Department
1000 Stanley Drive
Concord, North Carolina 28027

Stanley's liability under this warranty is limited to repair or replacement of the unit. Any attempt to repair the product by other than factory authorized personnel will void this warranty. Calibration, batteries and maintenance are the responsibility of the user. Where permitted by law, Stanley is not responsible for incidental or consequential damages. Agents of Stanley cannot change this warranty. Stanley is not responsible for change resulting from wear, abuse or alteration of this product. The user is expected to follow ALL operating instructions.

This warranty may provide you with additional rights that vary by state, province or nation.