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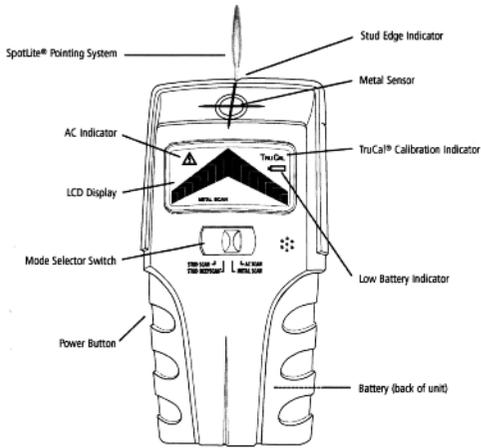
MultiScanner ProSL



Operating Instructions

MultiScanner ProSL

The MultiScanner ProSL uses four different scanning modes to detect studs, metal and hot AC wiring up to 1/2in (38mm) deep behind walls, floors and ceilings. It also detects rebar in concrete. MultiScanner ProSL also features the SpotLite Pointing System, which automatically displays a beam of light over the edge of a stud or near metal/AC.



1. MODE SELECTION

- When looking for studs, always start with the scanner in Stud Scan mode, which scans through surfaces up to 3/4in thick.
- DeepScan mode should only be selected if you know the surface is built up and thicker than normal construction. You should always scan the area in Stud Scan mode first, to verify that DeepScan is needed. DeepScan is for depths between 3/4 and 1 1/2in.
- When scanning for metal pipes or rebar select Metal Scan mode.
- When scanning for electrical wires select AC Scan mode.

2. IMPORTANT OPERATING TIPS - PLEASE READ CAREFULLY

- **Tool Position.** For proper use, always place scanner flat against the surface turning on power.
- **Power.** Depress and hold in the power button continuously while in use.
- **Calibration.** Place unit flat on wall. Press and hold the power button. Do not move until calibration is complete (1 - 2 seconds). When calibration is complete, the TruCal indicator will appear on the screen.
- **Operation.** Move the unit slowly, while keeping it flat against the wall. Do not rock, tilt or lift it.
- If you calibrate over a stud in DeepScan mode, you probably will not detect any studs. Move the unit a few inches right or left, release the power button and start over.

3. SCANNING IN STUD SCAN OR DEEPSCAN MODE

After calibrating (see number 2), continue to hold the power button and slowly slide the unit across the surface. When full arrow appears on the LCD and steady tone sounds, you have located the edge of the stud. Mark this spot (see illustrations below). The SpotLite Pointing System will also shine a beam

of light at the stud edge. Continue holding power button in and scan beyond the marked spot until arrow bars disappear. Without releasing power button, slide unit in reverse direction to locate the other edge of the stud. Mark this second spot. Middle of stud is centred between the two marks.
Note: DeepScan may report other things besides studs. Please see numbers 5 and 7.

Scanning in Stud Scan or DeepScan Mode.



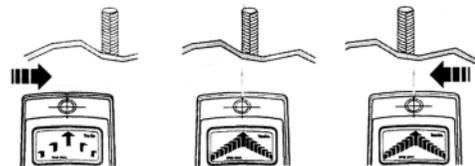
4. SCANNING IN METAL OR AC MODE

Select mode. After calibrating (see number 2), continue to hold the power button and slowly slide the unit across the surface. Mark the spot where the display bars peak and a steady tone sounds. The SpotLite will also shine a beam of light. Continue in the same direction until the display bars disappear. Reverse direction and mark the spot where the display bars peak from that direction. The midpoint of the two marks is the approximate centre of the object. In Metal Scan mode, if you calibrate directly over metal, you probably will not detect any metal. Move the unit a few inches right or left, release the power button and start over. In AC Scan mode, if you calibrate over AC voltage, the unit will automatically recalibrate when you move it.

AC WireWarning

For your safety, AC WireWarning works continuously in all modes. When AC voltage is detected, the AC Alert warning icon will be displayed on the screen.
Caution: Wires deeper than 2in (51mm), in conduit or behind plywood shearwall may not be detected. Use extreme caution under these circumstances or whenever hot AC wires are present. Always turn off power when working near electrical wires.

Metal or AC Wire



5. OPERATING CAUTIONS

Depending on the proximity of electrical wiring or pipes to the wall surface, the MultiScanner may detect them in the same manner as studs, especially in DeepScan mode. Caution should always be used when nailing, sawing or drilling into walls, floors and ceilings that may contain these items. Because of its increased sensitivity, DeepScan mode may also detect other things in walls that are not studs. To avoid surprises, remember that studs or joists are normally spaced 16in (406mm) or 24in (610mm) apart and are 1 1/2in (38mm) in width. Anything closer together or a different width may not be a stud, joist or firebreak. Always turn off the power when working near electrical wires.

Working with Different Materials

- **Wallpaper:** The MultiScanner functions normally on walls covered with wallpaper or fabric, unless the materials are

metallic foil, contain metallic fibres or are still wet after application.

- **Lath & plaster:** Due to irregularities in plaster thickness, it is difficult for the MultiScanner to locate studs in Stud Scan mode. Change to Metal mode to locate nail heads holding laths to studs. If the plaster has metal mesh reinforcement, the MultiScanner will be unable to detect anything through that material.
- **Textured walls or acoustic ceilings:** When scanning a ceiling or wall with an uneven surface, place thin cardboard on ceiling or wall and scan over the cardboard using DeepScan mode. Calibrate with cardboard in place.

- **Wood flooring, subflooring or gypsum drywall over plywood sheathing:** use DeepScan mode.
- **MultiScanner** cannot scan for wood studs and joists through ceramic floor tile or carpeting and pad.
- **In problem situations,** try using Metal Scan to locate nails or drywall screws that line up vertically where a stud is positioned.
Note: Sensing depth and accuracy can vary due to moisture content of materials, wall texture and paint.

7. HELPFUL HINTS

See also number 2, Important Operating Tips.

Situation	Probable Causes	Solutions
Not certain the object found is a stud in DeepScan mode.	• DeepScan increased sensitivity may have located something other than a stud.	• Scan the same area with Metal Scan and AC Scan. If the unit indicates the presence of metal or hot AC, the original stud indication is probably false.
Display indicates "Restart at New Location".	• Tool was calibrated over a stud or on dense part of wall. • Tool tilted or lifted during scan.	• Turn scanner off, move over a few inches, press power button and start again. • On rough surfaces, place thin cardboard on wall, scanning through it to help slide the scanner more smoothly.
Working in DeepScan mode and can't detect studs.	• You may have calibrated over a stud. (DeepScan mode is very sensitive. The error condition has been disabled in this mode).	• Move the MultiScanner over a couple of inches and recalibrate.
Detects other objects besides studs in Stud Scan and DeepScan modes.	• Electrical wiring and metal/plastic pipes may be near or touching back surface of wall.	• Switch to Metal mode, where combined with continuous AC detection, pipes and electrical wiring should be detected adequately. • Check for other studs equally spaced to either side (12, 16 or 24in apart [305, 406 or 610mm]) or the same stud at several places directly above or below the first. • Use CAUTION when nailing, sawing or drilling into walls, floors and ceilings where these items may exist.
Area of voltage appears much larger than actual wire.	• Static charge may develop on drywall, spreading voltage detection as much as 12in (305mm) laterally from each side of an actual electrical wire.	• To narrow detection, turn unit off and on again at the edge of where the wire was first detected and scan again. • Place your free hand flat against the wall near tool to drain static.
Centre arrow doesn't appear on LCD.	• Wall is particularly thick or dense.	• Interpret the pair of LCD bars closest to the centre as stud edge. • Switch to DeepScan, where more bars may appear, to locate the stud.
Difficulty detecting metal	• Unit not properly calibrated. • Metal targets too deep.	• Always calibrate in air for best sensitivity and avoid calibrating over any metal. • Scan in both horizontal and vertical directions. Metal sensitivity is increased when metal object is parallel to sensor, located at front end of unit beneath crosshair.
Image of metal object appears wider than actual size.	• Metal has greater density than wood.	• To reduce sensitivity, recalibrate MultiScanner over either of first two marks.
Constant readings of studs near windows and doors.	• Double and triple studs are usually found around doors and windows. Solid headers are above them.	• Detect outer edges so you know where to begin.
You suspect electrical wires but do not detect any.	• Wires may be shielded in metal conduit or behind metallic wall covering. • Wires deeper than 2in (51mm) from surface might not be detected. • Wires may not be hot.	• Try Metal scan to see if you can find metal, wire or conduit. • Always turn off the power when working near electrical wires. • Try turning on switches to outlet. • Try plugging a lamp into outlet and turning on switch.