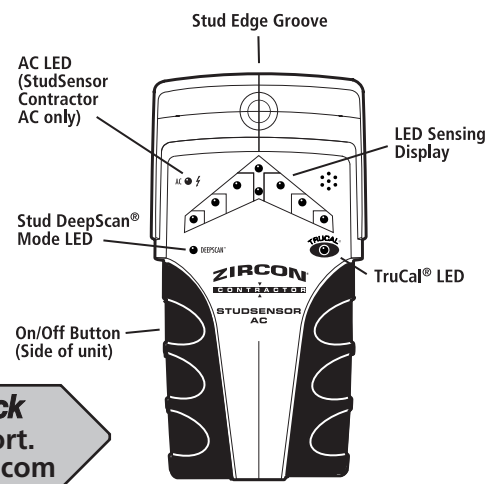


StudSensor™ Contractor StudSensor™ Contractor AC Stud Locator/Stud Locator with AC Warning

The Zircon StudSensor™ Contractor scanner detects wood and metal studs and joists in walls, floors, and ceilings. It features two scanning modes, recessed LEDs, rubberized handgrips, and a durable high-impact case. StudSensor™ Contractor AC also has the added ability to detect hot electrical wires continuously in both modes.

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ZIRCON

LIMITED 1 YEAR WARRANTY

Zircon Corporation, ("Zircon") warrants this product to be free from defects in materials and workmanship for one year from the date of purchase. Any in-warranty defective product returned to Zircon*, freight prepaid with proof of purchase date and \$5.00 to cover postage and handling, will be repaired or replaced at Zircon's option. This warranty is limited to the electronic circuitry and original case of the product and specifically excludes damage caused by abuse, unreasonable use or neglect. This warranty is in lieu of all other warranties, express or implied, and no other representations or claims of any nature shall bind or obligate Zircon. Any implied warranties applicable to this product are limited to the one year period following its purchase.

IN NO EVENT WILL ZIRCON BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM POSSESSION, USE OR MALFUNCTION OF THIS PRODUCT.

In accordance with government regulations, you are advised that: (i) some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of incidental or consequential

damages, so the above limitations and/or exclusions may not apply to you, and further (ii) this warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Return product freight prepaid with proof of purchase date (dated sales receipt) and \$5.00 to cover postage and handling, to:

Zircon Corporation
*Attn: Returns Department
1600 Dell Avenue, Unit K
Campbell, CA 95008-6992 USA

Be sure to include your name and return address. Out of warranty service and repair, where proof of purchase is not provided, shall be returned with repairs charged C.O.D. Allow 4 to 6 weeks for delivery.

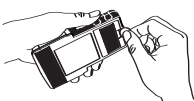
Customer Service, 1-800-245-9265 or 1-408-866-8600
E-mail: info@zircon.com

U.S. Patent #4464622, 5352974, 5619128, 6023159, D427166, D419149, D419545, and D419544
Canada Patent #1106932 • G.B. Patent #21179098, 21596308

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INSTALLING THE BATTERY

1 Press battery door release with coin and remove door.



2 Insert a 9-V battery into compartment, terminal side in, matching (+) and (-) terminals from battery to case.



3 Replace battery door and snap shut. Battery will last approximately two years under normal conditions.

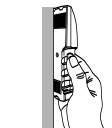


CALIBRATING IN STUD SCAN OR STUD DEEPSCAN® MODES

Use Stud Scan Mode for depths to about ¾ in. (19 mm) and Stud DeepScan for depths up to 1½ in. (38 mm) or double layers.

Note: Keep unit flat against wall. Do not lift or tilt unit during calibration or scanning.

4 With StudSensor turned off, position the unit flat against the wall.

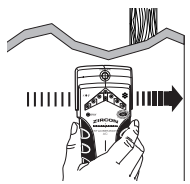


5 Squeeze On/Off button and hold in. Press twice and hold for DeepScan® mode (Contractor AC only).



SCANNING IN STUD SCAN OR STUD DEEPSCAN MODES

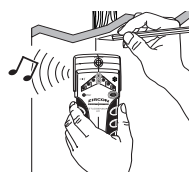
6 In either mode turn on and slowly slide unit horizontally across the wall, right or left.



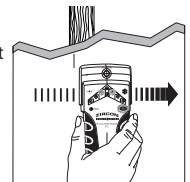
7 As you begin to approach a stud, the red LEDs will light successively, from bottom to top.



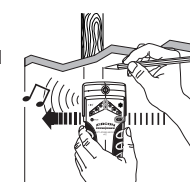
8 When the center two green LEDs are lit and a steady tone sounds, you have located the edge of the stud. Mark this spot.



9 Continue scanning beyond marked spot until target LEDs go out. Slide unit in reverse direction to locate other edge of stud.

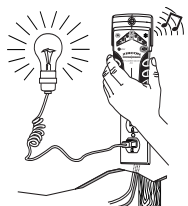


10 Mark this second spot. Middle of the stud is centered between the two marks.



CONTINUOUS AC VOLTAGE DETECTION (STUDSENSOR CONTRACTOR AC ONLY)

11 The StudSensor Contractor AC detects from 90 to 250 V at 50 to 60 Hz AC in a HOT electrical wire. The voltage detection feature works continuously in both Stud Scan and DeepScan modes. When sensing voltage, the small AC light comes on.



Caution: The StudSensor Contractor AC will not detect hot wires inside metal pipe or conduit, behind metallic wall covering, or behind some plywood or other dense materials. Use extra caution in these construction situations. Always turn the power off when nailing, cutting, or drilling near electrical wires.

OPERATING CAUTIONS

12 Depending on the proximity of electrical wiring or pipes to the wall surface, the scanner may detect them in the same manner as studs. Caution should always be used when nailing, cutting, or drilling in walls, floors, and ceilings that may contain these items.

To avoid surprises, remember that studs or joists are normally spaced 16 in. (406 mm) or 24 in. (610 mm) apart and are 1½ in. (38 mm) 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

StudSensor Contractor is for use on dry, interior walls only. Although StudSensor Contractor can scan through up to 1½ in. (38 mm) of common construction materials in DeepScan mode, three primary factors can affect sensing depth: thickness, density, and moisture content.

- StudSensor Contractor can scan effectively through most sheet materials, including:
 - Bare wood flooring (in DeepScan mode)
 - Linoleum on wood base
 - Gypsum drywall over plywood sheathing
 - Wallpapered walls (if dry)
- Textured ceilings if uniform thickness (Place a thin piece of cardboard on ceiling and scan through it to avoid damage to texturing.)

StudSensor Contractor is not designed to scan materials with inconsistent density such as:

- Ceramic floor tile
- Carpeting and padding
- Wallpaper with metallic fibers
- Freshly painted walls that are still damp (must dry at least a week)
- Lath and plaster walls

FCC Part 15 Class B Registration Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit, different from that which the receiver is connected (if applicable).
- (4) Consult the dealer or an experienced radio/TV technician for help.

TRABAJAR CON DIFERENTES MATERIALES

StudSensor Contractor se usa sólo para paredes secas, interiores. Si bien el StudSensor Contractor puede explorar a través de materiales de construcción comunes de hasta 1-1/2 pulgadas en modalidad DeepScan, tres factores principales pueden afectar la profundidad de medición: espesor, densidad, y contenido de humedad.

- StudSensor Contractor puede explorar eficazmente a través de materiales en láminas, incluyendo:
 - Pisos de madera pura (en modalidad DeepScan)
 - Linóleo sobre base de madera
 - Pared seca de yeso sobre láminas de madera contrachapada
 - Paredes empapeladas (si están secas)
- Techos con textura si el espesor es uniforme. (Coloque un trozo de cartulina fina sobre el techo y explore a través de la cartulina para evitar daños de textura.)

StudSensor Contractor no está diseñado para explorar materiales con densidad inconsistente tales como:

- Mosaicos de cerámica para pisos
- Alfombras y acolchado de alfombra
- Papel con fibras de metal para paredes
- Paredes recién pintadas que aun están húmedas (se deben secar durante por lo menos una semana)
- Paredes de molduras de madera y paredes emplastadas con yeso

Advertencia de registro de la FCC, Sección 15, Clase B

Este equipo se ha probado y se encontró que cumple con los límites para un dispositivo digital Clase B, conforme a la Sección 15 de las Reglas de la FCC. Estos límites se diseñaron para ofrecer una protección razonable contra la interferencia dañina cuando el equipo se opere en una instalación residencial. Este equipo genera, usa y puede radiar energía de radio frecuencia y, si no se instala y utiliza en conformidad con las instrucciones, puede provocar interferencia dañina a las comunicaciones de radio. Sin embargo, no hay garantía de que no ocurrirá interferencia en una instalación en particular. Si este equipo provoca interferencia dañina a la recepción de radio o televisión, lo cual puede determinarse encendiendo y apagando el equipo, se exhorta al usuario a tratar de corregir la interferencia mediante una o más de las siguientes medidas:

- (1) Reoriente o rubique la antena de recepción.
- (2) Incremente la separación entre el equipo y el receptor.
- (3) Conecte el equipo en una toma eléctrica en un circuito diferente al que se conectó el receptor (si aplica).
- (4) Consulte al distribuidor o a un técnico experimentado en radio y televisión para recibir ayuda.

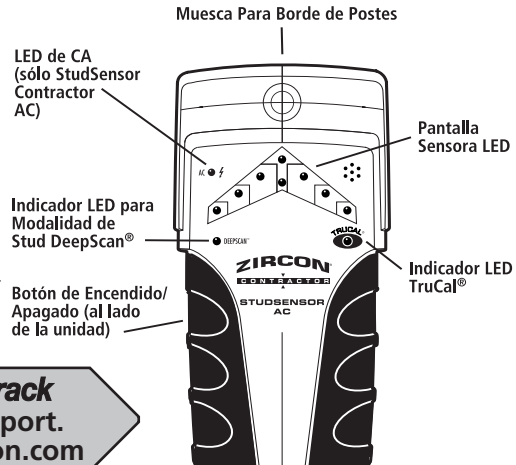
HELPFUL HINTS

Situation	Probable Causes	Solutions
Lights start flashing and unit starts beeping.	<ul style="list-style-type: none"> • Scan began on dense part of wall or over a stud. • Unit not flat against wall. • Unit tilted or lifted during scan. (All these factors affect proper calibration.) 	<ul style="list-style-type: none"> • Turn unit off, move over a few inches, press On/Off button, and start again. • On rough surfaces, place piece of paper on wall, scanning through it to help slide unit more smoothly. • Keep hand at least 6 in. (152 mm) from StudSensor Contractor while you calibrate and scan. Hold unit with thumb and index finger no higher than handgrips. Be careful not to move your fingers after calibration. • Always hold unit parallel to and move perpendicular to object you're trying to locate.
Center pair of green LEDs don't light in Stud Scan mode.	<ul style="list-style-type: none"> • Wall is particularly thick or dense. 	<ul style="list-style-type: none"> • Interpret pair of red LEDs closest to center as stud edge. • Switch to DeepScan to locate the stud.
The green TruCal LED lights but, when scanning, unit doesn't do anything else.	<ul style="list-style-type: none"> • Unit may not be flat against the wall. • If it is in the DeepScan mode (the DeepScan LED is lit), you may have calibrated over a stud. 	<ul style="list-style-type: none"> • Hold unit so two Velcro™ strips on the back make contact with wall. • Recalibrate unit in a different place and rescan area.
All three pairs of red LEDs and center pair of green LEDs light at the same time and unit beeps continuously.	<ul style="list-style-type: none"> • Scanning surface is too dense or too wet for unit to operate. 	<ul style="list-style-type: none"> • If you are using unit on a recently taped, painted, or wallpapered wall, allow time to dry and try again.
Working in DeepScan mode and can't detect studs.	<ul style="list-style-type: none"> • You may have calibrated over a stud. (The error condition is disabled in DeepScan mode because it is twice as sensitive as Stud Scan.) • You may be holding the unit like a TV remote, aiming it at the wall. 	<ul style="list-style-type: none"> • Move StudSensor Contractor over a few inches and recalibrate. • Hold unit so two Velcro™ strips on the back make contact with wall.
Detects other objects besides studs.	<ul style="list-style-type: none"> • Electrical wiring and metal or plastic pipes may be near or touching back surface of wall. 	<ul style="list-style-type: none"> • Remember that studs or joists are normally spaced 16 in. (406 mm) or 24 in. (610 mm) apart and are 1½ in. (38 mm) wide. • Always turn off power when cutting, nailing, or drilling near electrical wires.
You suspect electrical wires, but do not detect any.	<ul style="list-style-type: none"> • Wires may be shielded behind metallic wall coverings. • Use extra caution if the area has plywood, thick wood backing behind drywall, or thicker-than-normal walls. • If a switch controls an outlet, make sure it is ON for detection, but turned off when working near electrical wires. • The wires may not be HOT. • Wires may be too deep to sense. 	<ul style="list-style-type: none"> • See above solution. • Use extra caution if the area has plywood, thick wood backing behind drywall, or thicker-than-normal walls. • If a switch controls an outlet, make sure it is ON for detection, but turned off when working near electrical wires.
Area of voltage detection is too large (AC only).	<ul style="list-style-type: none"> • Static charge may develop on drywall, spreading voltage detection as much as 12 in. (305 mm) laterally from each side of an actual electrical wire. 	<ul style="list-style-type: none"> • To narrow detection, turn unit off and on again at the edge of where wire was detected and scan again.

StudSensor™ Contrator StudSensor™ Contractor AC Localizador de postes/Localizador de Postes con Detector de CA

El StudSensor™ Contractor de Zircon detecta postes de madera y metal en paredes, pisos y techos. Incluye dos modalidades de exploración, LEDs empotrados, agarraderas de goma y una caja durable de alto impacto. StudSensor™ Contractor AC tiene además la capacidad agregada de detectar continuamente cables eléctricos vivos en ambas modalidades.

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ZIRCON

GARANTIA LIMITADA DE 1 AÑO

Zircon Corporation ("Zircon") garantiza este producto como libre de defectos en materiales y mano de obra por un año a partir de la fecha de compra. Cualquier producto defectuoso dentro de la garantía enviado a Zircon* con el envío pagado, comprobante de fecha de compra y \$5.00 para cubrir porte y manejo, se reparará o reemplazará a opción de Zircon. Esta garantía se limita a los circuitos electrónicos y a la caja original del producto y excluye específicamente los daños provocados por uso indebido, uso no razonable o descuido. Esta garantía está en lugar de todas las demás garantías, expresas o implícitas, y ninguna otra declaración o reclamación de cualquier naturaleza será obligatoria para Zircon. Cualquier garantía implícita aplicable para este producto se limita al periodo de un año inmediato a su compra.

EN NINGUN CASO, ZIRCON SERA RESPONSABLE DE NINGUN DAÑO ESPECIAL, INCIDENTAL O RESULTANTE DE LA POSESION, USO O MAL FUNCIONAMIENTO DE ESTE PRODUCTO.

De conformidad con las reglamentaciones gubernamentales, se le notifica que: (i) en algunos estados no se permiten limitaciones del tiempo de vigencia de una garantía implícita y/o de la exclusión o limitación de daños incidentales o consecutivos; así que las limitaciones y/o exclusiones anteriores tal vez no se

apliquen para usted, y además, (ii) esta garantía le otorga derechos legales específicos y usted tal vez tenga otros derechos que varían de estado en estado. Devuelva el producto con envío pagado y comprobante de la fecha de compra (recibo de venta fechado) y \$5.00 para cubrir el porte y el manejo, a:

Zircon Corporation
*Attn: Returns Department
1600 Dell Avenue, Unit K
Campbell, CA 95008-6992 USA

Asegúrese de incluir su nombre y dirección. El servicio y reparación fuera de garantía donde no se incluya el comprobante de compra se regresará con cargos de reparación C.O.D. Permita de 4 a 6 semanas para la entrega.

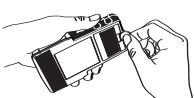
Servicio a clientes: 1-800-245-9265 o 1-408-866-8600
A la dirección de correo electrónico: info@zircon.com

Patentes de EE.UU. #4464622, 5352974, 5619128, 6023159, D427166, D419149, D419545, y D419544
Canada Patent #1106932
G.B. Patent #21179098, 21596308

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INSTALACION DE LA BATERIA

1 Oprima la puerta de la batería, libérela con una moneda y extráigala.



2 Inserta la batería de 9-V en el compartimiento, el lado de la terminal hacia adentro, haciendo coincidir las terminales (+) y (-) de la batería y de la caja.



3 Vuelva a colocar la puerta de la batería y insertela hasta cerrarla. Bajo condiciones normales, la batería durará aproximadamente 2 años.



CALIBRACION EN LAS MODALIDADES STUD SCAN O STUD DEEPSCAN®

Use la Modalidad de Stud Scan para profundidades aproximadas de ¾ de pulg. (1.9 cm) y Stud DeepScan para profundidades de hasta 1½ pulg. (3.8 cm).

Nota: Mantenga la unidad en posición plana contra la pared. No levante ni incline durante el calibrado o el escaneo.

4 Con el StudSensor apagado, coloque la unidad en posición plana contra la pared.

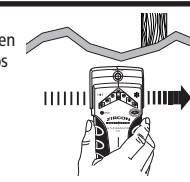


5 Oprima y mantenga oprimido el botón de encendido/apagado. Presione el botón dos veces rápidamente y manténgalo presionado para el modo DeepScan® (sólo para el SS Contractor AC).



DETECCION EN LAS MODALIDADES STUD SCAN O STUD DEEPSCAN®

6 Encienda la unidad en cualquiera de las dos modalidades, y deslice la unidad horizontalmente sobre la pared, hacia la derecha o la izquierda.



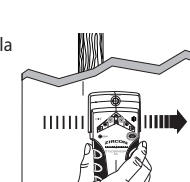
7 Cuando comience a acercarse a un poste, los LED rojos se encenderán sucesivamente de abajo hacia arriba.



8 Cuando se enciendan los dos LED verdes centrales, y suene un tono auditivo continuo, habrá localizado el borde del poste. Marque este punto.



9 Continúe deslizando la unidad en la misma dirección hasta que las luces LED se apaguen. Deslice la unidad en la dirección opuesta hasta localizar el otro borde del poste.



10 Marque este segundo punto. El centro del poste es el centro de las dos marcas.

