GENERAL SAFETY RULES

Working safely with this instrument is possible only when the operating and safety information are read completely and the instructions contained therein are strictly followed. The use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

DO NOT stare into the laser beams.

DO NOT direct the laser beam at other persons.

DO NOT disassemble the instrument or attempt to perform any internal servicing. Laser class is indicated on the instrument. Repair and servicing of this laser are to be performed only by SitePro or authorized service centers.

- When attaching the instrument to a tripod, make sure the instrument is securely fixed. The tripod leg clamps should be securely fastened. If not securely fastened or tightened, the main unit could fall off or the tripod could fall over.

- The laser should not be stored or used in extreme temperature or during rapid temperature change. The laser may not function properly if used out of the ambient temperature range.

- Store inside the carry case and place in a dry area not subject to vibration, dust or high moisture. If the storage temperature and ambient temperature for usage vary significantly, leave the laser in its case until it can adjust to the ambient temperature.

- The laser should be transported or carried carefully to avoid impact or vibration.

- The laser should be stored in the carry case and packed with cushioning material. Always handle the laser with care.
Fig. A

SLR200HV, SLR200HV-G

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SLR200H
FEATURES (Fig. A)
1. Light House
2. Rotating Head
3. Glass Enclosed
4. Heavy-Duty Handle
5. Control Panel
6. Charging Port
7. Instrument Base and Battery Pack

TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>SLR200HV-G</th>
<th>SLR200HV</th>
<th>SLR200H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Accuracy</td>
<td>1/8-in at 100-ft (3mm at 30m)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Range with Detector</td>
<td>1000-ft (305m)</td>
<td>1600-ft (500m)</td>
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<tr>
<td>(Diameter)</td>
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<tr>
<td>Interior Range</td>
<td>650-ft (198m)</td>
<td>320-ft (98m)</td>
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<tr>
<td>(Diameter)</td>
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<tr>
<td>Leveling Type</td>
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<tr>
<td>(Degrees)</td>
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<tr>
<td>Beam Rating</td>
<td>Class 3R 525nm</td>
<td>Class 2M 650nm</td>
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<tr>
<td>Vertical Self-Leveling</td>
<td>1/8-in at 100-ft (3mm at 30m)</td>
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</tr>
<tr>
<td>Slope/Grade Capability</td>
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<td>Dual (±8.77%)</td>
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<td>Power Supply</td>
<td>NiMh Rechargeable Approx. 16hr</td>
<td>4-C Cell, NiMh Rechargeable Approx. 50hr (Ni-MH); Approx. 40hr (Alkaline)</td>
<td>4-C Cell, NiMh Rechargeable Approx. 50hr (Ni-MH); Approx. 40hr (Alkaline)</td>
</tr>
<tr>
<td>Water/Dust Protection</td>
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<tr>
<td>Weight:</td>
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</table>
CONTROL PANEL - KEYPADS

Power ON/OFF: Allow laser instrument to self-leveling. For the SLR200HV & SLR200HV-G, use also to activate the plumb up and plumb down beam. When the LED is ON, the instrument is ON.

Manual/Automatic: While instrument is ON, press once, to activate Manual Mode. The slope of Y-axis can be adjusted by Up and Down Arrow keypads. Press Manual/Automatic keypad again to adjust the slope on X-axis. In this mode, the other functions such as scanning, left spin or right spin are also available but without accuracy. Press Manual/Automatic keypad the third time to activate Self-Leveling Mode. When Y indicator LED is ON, the slope of Y axis can be adjust, when X indicator is ON, the X-axis slope can be adjusted.

Variable Rotation Speed Mode: This mode will increase or decrease the speed of the rotating laser. Four (4) preset speeds can be obtained: 0 rpm, 60 rpm, 300 rpm, and 600 rpm.

Smart H.I. Alert System: When enabled alerts user when laser has been disturbed. When the LED is blinking slowly, the laser is in H.I Alert mode. When the light is blinking quickly, the laser level will not level as it has been disturbed and needs reset.

Scanning Mode: Creates a shorter, brighter laser “chalk line” that can be used for leveling or alignment. Five (5) preset angles of scanning are available- 0°, 10°, 45°, 90°, and 180°.

Clock-Wise and Counter-Clock-Wise Beam Positioning: When laser is in Scanning Mode, laser beam can be positioned.

Manual Slope Adjustment: Adjust the slope for both X and Y axis by using the up and down arrow keypads while in Manual Mode.

Windy Mode: Laser will be in continuous rotating/self-leveling during high winds, heavy vibrations, and shocks. Windy Mode does not affect the accuracy.
**PREPARATIONS**

**Battery Installment**

Rechargeable and alkaline battery packs are suitable for use to power your instrument.

To install/remove batteries:

1. Un-screw the bolt at the bottom of instrument base. Remove the battery pack.
2. Use either alkaline battery or Ni-Mh battery pack. When inserting alkaline batteries, pay attention to the correct polarity according to the representation on the inside of the battery compartment. Always replace all batteries at the same time. Only use batteries from one brand and with the identical capacity.
3. When installing the battery pack onto base, be certain that electrode connection align properly. Secure by tighten the bolt onto the bottom of instrument base.

Remove the batteries from the tool when not using it for extended periods. When storing for extended periods, the batteries can corrode and discharge themselves.

**Charging Rechargeable NiMh Battery Pack**

Insert the charger into the outlet and the charging port of the instrument or the battery pack. Turn on the power. The charger LED will display 1 of 3 modes:

- Red flashing light: Battery NOT Charging. Check connections.
- Red light: Battery Charging. Take up to 8 hrs to fully charge.

Note:

- When using the standard rechargeable batteries of the instrument, recharging takes up to 8 hours (4 x 5000 mAh Ni-Mh batteries).
- Power required for the charger: Frequency: 50-60HZ; Voltage: 85-265V.
- Instrument can be used while charging batteries.
- Brand-new rechargeable batteries or rechargeable batteries unused for long period need to be recharged and discharged three times to attain full capacity.
OPERATIONS

Set-up

Place the laser instrument on a flat, level surface such as a tripod. Setup the instrument in an area where it cannot be obstructed and is set at a convenient height.

IMPORTANT. Be sure the surface is level with +/- 5° of the laser self-leveling range.

Power

Press the Power ON/OFF keypad and allow the laser instrument to self-level. If the power indicator LED blinks, the voltage of the batteries is low and batteries need to be replaced or recharged.

Leveling

The laser instrument can stand alone on a level, sturdy surface or preferably secured to a 5/8” -11 tripod. Press the Power keypad once, and allow time for the instrument to self-level.

After self-leveling, the laser instrument will begin operating in Rotation Mode at the speed of 600 RPM. If the instrument is placed improperly, or the slope of instrument exceeds the range of +/-5°, the Power indicator LED and the laser beam will blink at the same time.

Note: The instrument will shut down automatically if the unit exceeds the self-leveling system range for more than 5 minutes.

Variable Rotation Speed

The Variable Rotation Speed Mode keypad will give you the option of increasing or decreasing the speed of the rotating laser. Repeatedly pressing the keypad will adjust the speed from 600, 300, 150, and 0 RPM.
Scanning or Sweeping

The Scanning Mode creates a shorter, brighter laser “chalk line” that can be used for leveling or plumbing. This feature can also be used to keep the instrument from interfering with other lasers and detectors on site. Pressing the Scanning Mode keypad, will lengthen or shorten the scan area of the laser beam.

While in Scanning Mode, the position of the scanning area can be adjusted. Press the Clock-Wise and Counter-Clock-Wise Beam Positioning keypads.

Slope/Grade Mode

When the instrument is set upright for horizontal rotation, the slope of the X-axis and Y-axis can be adjusted by using Manual Mode. Press the Manual/Automatic keypad, the instrument will enter into the mode of manual adjustment. The Y indicator LED illuminates.

Single Slope - Adjusting the Slope of Y-axis

For single slope applications, the slope or grade can be as much as a positive or negative 8.77%, and set in reference to the Y axis of the instrument (Fig. 2). Position Y1-beam in the direction of the slope required.

Press the Manual Slope Adjustment Up or Down Arrow keypad(s) to move the laser beam up or down until the beam/line is adjusted to the required slope.
**Dual Slope - Adjusting the Slope of X-axis**

For dual slope or grade applications, the X-axis can be adjusted (+/-8.77%). Press the **Manual/Automatic** keypad again to adjust the slope of X-axis. The X indicator LED will illuminate.

Press the **Manual Slope Adjustment** Up or Down Arrow keypad(s) to move the laser beam up or down in the X-axis until the beam/line get to its required position.

To return to automatic Self-Leveling Mode, press the **Manual/Automatic** keypad again. Allow time for the instrument to self-level.

**Vertical Laydown Positioning**

Place the laser instrument in the laydown position on a flat, level surface.

Press the Power ON/OFF keypad. Allow the instrument to self-level.

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**ACCURACY CHECK**

Follow these instructions for checking axis accuracy.

**Horizontal-Surface Checking**

Place the instrument at the point of 50m in front of wall (or set a scale plate at the point of 50m away from the instrument), and then adjust the level of the base approximately to aim the X1 to the wall (or scale plate).
Allow the laser instrument to self level and begin rotating. Mark the beam position on the wall or scale plate as H1 (Fig. C).

Loosen the screw of the tripod, and then turn the laser 180°. Allow the unit to level and rotate, mark the beam position on the wall or scale plate as H2 (Fig. C).

The difference between the value of H1 and H2 should be less than 10 mm.

Repeat the same process to check your Y-axis beam. Again, the difference between the values of the two measurements should be less than 32 feet (10 mm).

If the difference in either axis is more than 8mm, the laser should be sent to your authorized dealer for service and calibration.

**Horizontal-line checking**

First lay down the instrument. Mount the instrument on tripod between A wall and B wall (Fig. D). Tripod near Wall A. Distance should follow the instructions on illustration. Switch the instrument on.

After leveling, direct the laser beam onto the close wall A. Mark the centre point of the laser beam on the wall (Point 1).
Turn the instrument horizontally by 180°. (without changing the height). After leveling, direct the laser beam onto Wall B (Fig. E). Mark the centre point of the laser beam on the opposite wall B (Point II).

**Fig. E**

![Diagram of Fig. E]

Without turning the instrument. Position laser instrument close to wall B by moving the tripod. Switch on the instrument and let it leveling.

**Fig. F**

![Diagram of Fig. F]

After leveling, align the height of the instrument by using tripod or by underlaying if necessary. In such a manner that the centre point of the laser beam is projected exactly located the previously marked point II on wall B (Fig. F).

Rotate the instrument by 180° without changing the height. Allow it to level in and mark the centre point of the laser beam on wall A (point III). Take care that point III is as vertical as possible above or below point I.

The difference D of both marked points I and III on wall A amounts to the actual deviation of the plumb up beam D-value should be less than 4mm.
REMOTE CONTROL
The remote control can be used up to a maximum of 100 feet (30 m) away from the instrument. The remote must be pointed towards the instrument for proper operation. Requires 2 'AA' Alkaline batteries.

RC25
Used with SLR200H

RC28
Used with SLR200HV
DETECTOR

Note: The RD200 is used with red beam rotary laser (SLR200H and SLR200HV), while the RD200-G is used with the green beam laser (SLR200HV-G).

The detector will pick up a spinning beam when it crosses the electronic sensor window.

The detector has 3 control keypads:

a) ON/OFF Keypad
b) Audio button with 3 settings: OFF – LOW – HIGH
c) Sensitivity Keypad

This will either give a narrow or a broader range of detection. When the detector is too high a slower beep will be emitted, when too low, a fast beep will be emitted, when same level as beam a continuous pitch will sound- at this point the centre of the detector is at the same alignment as the beam.

To get accurate results use the spirit bubble to keep the detector level. The detector is powered by a standard 9v battery.
WARRANTY

Limited Warranty Program

SitePro warrants the SLR200 Series Rotary Lasers to the original purchaser for a period of three (3) years from date of purchase against any defects in material or workmanship. This warranty does not cover part failure due to normal wear or tool abuse. For more details of warranty coverage and warranty repair information, call (855) 354-9881. This warranty does not apply to accessories items or damage caused where repairs have been made or attempted by person other than SitePro or authorized service center. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

This Limited Warranty does not apply to accessory items such as tripods, rods, poles, prisms, hand levels, field supplies, instrument accessories and other related items. These items receive a 90 day limited warranty.

To make a claim under this Limited Warranty, you must return the tool, transportation prepaid, along with any relevant paperwork (RGA number, if you have obtained one, proof of purchase, contact information, and any request for new accessories, etc.) to our Service Department or an Authorized Service Center.

SitePro/Service Department, 7619 S 1150 E, Otterbein, IN 47970

IMPLIED WARRANTIES ARE EXPRESSLY LIMITED IN DURATION TO ONE YEAR FROM DATE OF PURCHASE.

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING BUT NOT LIMITED TO LIABILITY FOR LOSS OF PROFITS) ARISING FROM THE SALE OR USE OF THIS PRODUCT. SOME STATES IN THE U.S., AND SOME CANADIAN PROvinces DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

SOME STATES IN THE U.S. AND SOME CANADIAN PROvinces DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OR LIMITATION OF SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THESE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE/PROVINCE TO STATE/PROVINCE.