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.
# FEATURES (Fig. A)

1. Light House  
2. Rotating Head  
3. Glass Enclosed  
4. Heavy-Duty Handle  
5. Control Keypad  
6. Charging Port  
7. Instrument Base and Battery Pack  
8. Laser Plumb Beam  
9. Laser Down Plumb Beam

# TECHNICAL DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>SLR202GR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leveling Accuracy</td>
<td>1/8-in at 100-ft (3mm at 30m)</td>
</tr>
<tr>
<td>Range with Detector (Diameter)</td>
<td>1600-ft (500m)</td>
</tr>
<tr>
<td>Interior Range (Diameter)</td>
<td>320-ft (98m)</td>
</tr>
<tr>
<td>Leveling Type (Degrees)</td>
<td>Electronic (±5°)</td>
</tr>
<tr>
<td>Beam Rating</td>
<td>Class 3R, 635nm</td>
</tr>
<tr>
<td>Grade/Slope Capability</td>
<td>Dual (±10.00%), Dial-in</td>
</tr>
<tr>
<td>Variable Rotation Speed Settings</td>
<td>0, 60, 120, 300, and 600 RPM</td>
</tr>
<tr>
<td>Scanning Angle Settings</td>
<td>10°, 45°, 90°, 180°</td>
</tr>
<tr>
<td>Remote Control Operating Distance</td>
<td>up to 65-ft (20 m)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>NiMh Rechargeable Approx. 20hr of continuous use. or Four (4) C cell alkline batteries</td>
</tr>
<tr>
<td>Water/Dust Protection</td>
<td>IP54</td>
</tr>
<tr>
<td>Dimension:</td>
<td>6.3 x 6.3 x 7.3-in (160mm x 160mm x 185mm)</td>
</tr>
<tr>
<td>Weight:</td>
<td>6.6 lb (3.0 kg) with batteries</td>
</tr>
</tbody>
</table>
CONTROL KEYPAD ICONS

**Power ON/OFF:** Allow laser instrument to self-leveling. Use also to activate the plumb up and plumb down beam.

**Manual/Automatic:** While instrument is ON, press and hold once, to activate Manual Mode. The laser instrument is no longer in self-leveling mode and can be positioned at any angle/slope.

**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, 120 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 repositioned in clock-wise or counter-clock-wise rotation. When laser in Slope/Grade Mode, these buttons are used to adjust the value of the X% and Y% slope/grade.

**Slope/Grade Mode:** When laser is in Slope/Grade Mode, laser beam can be adjusted in both the X and Y axis for single or dual slope applications.

**X- and Y- Axis Positioning:** When laser is in Slope/Grade Mode, the button is used to adjust either the X% or Y% grade value.
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
- Green light: Battery Fully Charged; Ready for Use

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 can not 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 then 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, 120, 60, 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 or Counter-Clock-Wise Beam Positioning** keypads.

**Slope/Grade Mode**

![Diagram of Slope/Grade Mode](image)

**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 10.00%, and set in reference to the Y axis of the instrument. Position Y1-beam in the direction of the slope required.

When the instrument is set upright for horizontal rotation, the slope of the Y-axis can be adjusted. Press the Grade Mode button 🔄, the instrument will enter into the mode of manual grade adjustment.
First, the X% value on the display will begin to flash. Press the \[ \text{button} \] to enter the Y-axis slope/grade menu. The Y% value on the display will begin to flash.

Press the \[ \text{or} \] buttons to adjust the Y% grade value. Continue until the required value is set. The Y-axis slope/grade value can be set between +10.00% and -10.00%.

Once values are set, press the \[ \text{button} \]. After a few seconds, the instrument will process the values and adjust the laser beam to the grade set. The laser beam will begin to rotate.

If the instrument is disturbed during operation, an audible alarm will sound to indicate that the instrument has moved. If disturbed, you need to reconfirm all references and benchmarks. If you determine that instrument has not shifted from its original position, press the \[ \text{button} \] to re-start the instrument and return to grade mode.

**Dual Slope/Grade - Adjusting the Slope of Both Axis**

When the instrument is set upright for horizontal rotation, the slope of the X-axis and Y-axis can be adjusted by entering the Slope/Grade Mode. Press the Grade Mode button \[ \text{], the instrument will enter into the mode of manual grade adjustment.

First, the X% value on the display will begin to flash.

Press the \[ \text{or} \] buttons to adjust the X% grade value. Continue until the required value is set. The X-axis slope/grade value can be set between +10.00% and -10.00%.

Press the \[ \text{button} \] to enter the Y-axis slope/grade menu.

The Y% value on the display will begin to flash.

Press the \[ \text{or} \] buttons to adjust the Y% grade value. Continue until the required value is set. The Y-axis slope/grade value can be set between +10.00% and -10.00%.

Once values are set, press the \[ \text{button} \]. After a few seconds, the instrument will process the values and adjust the laser beam to the grade set. The laser beam will begin to rotate.
Vertical Laydown Positioning

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

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

ACCUACY CHECK

Follow these instructions for checking axis accuracy.

Horizontal-Surface Checking

Place the laser instrument at the point of 165 ft (50m) from a wall or set a scale plate, and then adjust the level of the base approximately to aim the Y1 towards 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.

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.

The distance between H1 and H2 should be less than 3/8-in (8 mm).

Repeat the same process to check your Y-axis beam. Again, the distance between H1 and H2 should be less than 3/8-in (8 mm).

If the difference in either axis is more than 3/8-in (8 mm), 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 wall (or target) A and B. Tripod should be placed approx. 1.5ft (0.5m) from wall (or target) A. Power the instrument on.

After leveling, direct the laser beam onto the close wall A. Mark the center point y^1 of the laser beam on the wall.
Rotate the instrument horizontally 180° (without changing the height). After laser instrument levels, direct the laser beam onto Wall B. Mark the center point \( z \) of the laser beam on the opposite wall B.

Without turning the instrument, position laser instrument close to wall B by moving the tripod. Switch on the instrument and let it level.

After leveling, align the height of the instrument by using tripod (or by underlayment), so that the center point of the laser beam is projected exactly at the point \( z \).

Rotate the instrument 180° without changing the height. Allow it to level, and mark the center point \( y^2 \) of the laser beam on wall A. Be sure that point \( y^2 \) is as vertical aligned as possible to point \( y^1 \).

Measure the distance between points \( y^1 \) and \( y^2 \). The deviation of the plumb up beam should be less than 0.16-in (4mm).
REMOTE CONTROL

The remote control can be used up to a maximum of 65 feet (20 m) away from the instrument. Setup the instrument and power on (remote does not power on instrument). The remote control communicates with the laser instrument in real-time. The remote must be pointed towards the instrument for proper operation.

The remote controls the laser the same as the keypads on the instrument.

1. LCD Real-Time Display
2. Power Button (powers remote, not laser instrument)
3. Counter Clock-wise Rotation Button
4. Clock-wise Rotation Button
5. Sweep Mode Button
6. X/Y Grade Adjustment Button
7. Rotation Speed Button
8. Grade/Slope Mode Button

Requires 2 ‘AA’ Alkaline batteries.

DETECTOR

Use the detector with the laser instrument when working outdoors or in illuminated work areas. The detector will pick up a rotating laser beam when it crosses the electronic sensor window.
The detector has 3 control buttons:

- ON/OFF Button
- Audio Button with 3 settings:
  - OFF – LOW – HIGH
- Sensitivity Button

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.

**MAINTENANCE**

*Store and transport the tool only in the supplied protective case.*

*Keep the laser instrument clean.*

*Do not immerse the tool into water or other fluids.* Wipe off debris using a moist and soft cloth. Regularly clean the glass surfaces of the laser tool for finger marks and debris.

If the tool should fail, repair should be carried out by an authorized SitePro Service Center.

In all correspondence and spare parts orders, please always include the product model and serial number.

If repairs are needed, send in the laser instrument in its protective case.

**ENVIRONMENT PROTECTION**

Recycle raw materials & batteries instead of disposing of waste. The unit, accessories, packaging & used batteries should be sorted for environmentally friendly recycling in accordance with the latest regulations.
WARRANTY

Limited Warranty Program

SitePro warrants the SLR200 Series Rotary Lasers to the original purchaser for a period of two (2) 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.