Dave White's

# SitePro™

**OPERATING MANUAL**

CONSIGNES DE FONCTIONNEMENT

INSTRUCCIONES DE FUNCIONAMIENTO

model | modelo

## KS32LP-G

## 360° COMBO LAYOUT LASER


**IMPORTANT:** Read Before Using

**IMPORTANT:** Lire avant usage

**IMPORTANTE:** Leer antes de usar

# KEEP IT SIMPLE WITH THE KS-SERIES

by SitePro

# KS32LP-G

## 360º COMBO LAYOUT LASER

Congratulations! You've purchased a SitePro laser that is simple to use with one-button operation for precise and accuracy leveling, plumb, layout and squaring.

The purpose of this user's guide is to acquaint you with the laser tool, its components, safety, proper care and handling.

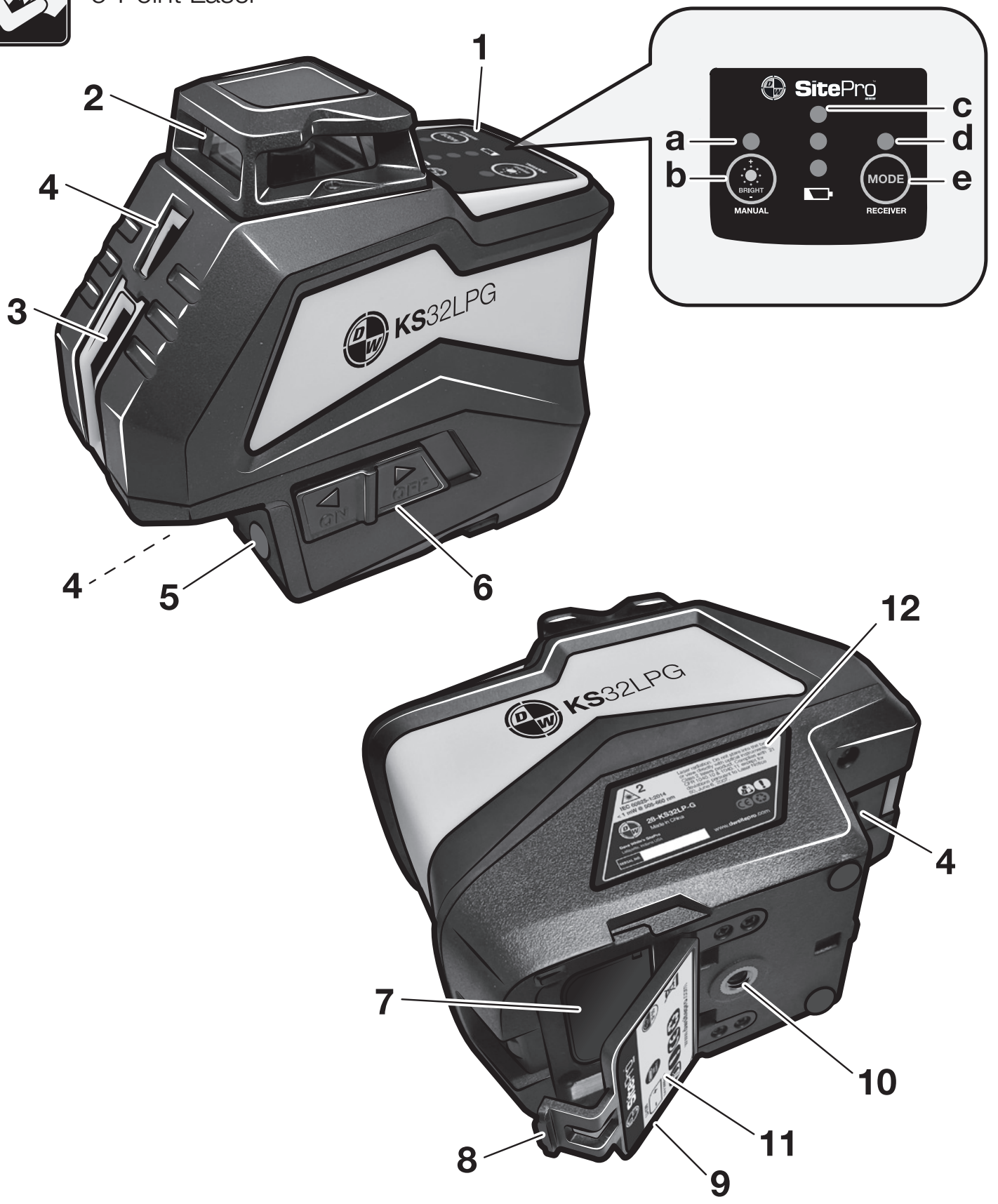
All laser tools are adjusted and calibrated when they are shipped from the factory. It is the customer's responsibility to check and to ensure instruments are adjusted prior to using.

SitePro is not responsible for errors caused by laser tools that are out of adjustment. Contact your local SitePro distributor or dealer for information on the nearest facility to check if your instrument is properly adjusted. Contact Dave White's SitePro for questions and help locating your local dealer.

All specifications are subject to change without notice.

**SAFETY INSTRUCTION**
Page 17

**KS 5PG**
5-Point Laser



# INTENDED USE

This laser tool projects a 360-degree horizontal laser beam, one vertical laser beam, and two points: one point up, one down.

Ideal for leveling, plumb, layout, alignment and transferring points.

# FEATURES AT A GLANCE

The numbering of the product features shown refers to the illustration of the tool on page 3.

**1.** Control Keypad
**1a.** Laser Beam Brightness Indicator
**1b.** Manual Mode / Laser Beam Brightness Button
**1c.** Battery Indicator
**1d.** Detector (Pulse) Mode Indicator
**1e.** Operating Mode / Detector Mode Button
**2.** Exit opening for 360-degree horizontal laser beam
**3.** Exit opening for vertical laser beam
**4.** Exit openings for point laser beams
**5.** Heavy Magnets
**6.** Safety Lock / Automatic Leveling Switch / ON|OFF
**7.** Lithium-Ion Rechargeable Battery
**8.** Latch Release
**9.** Battery Compartment Door
**10.** 1/4-20 Tripod Mounting Thread
**11.** Battery Label
**12.** Nameplate with Serial Number

# PREPARATIONS

This laser tool is shipped with a 7.4V Lithium-Ion rechargeable battery.

The battery indicator lights **1c** will illuminate red and blink when batteries need replaced.

## INSERTING/REPLACING BATTERY

7.4V Lithium-Ion battery pack is used to power this laser tool.

**WARNING** **Always replace all alkaline batteries at the same time. Only use batteries from one brand and with the identical capacity.**

Open the battery compartment door **9** by pressing latch release **8**.

When inserting battery, slide it into the slotted opening and inside of the battery compartment.

Close the battery compartment door **9**. Push door down and clip into housing until the door clicks into the secure position.

**IMPORTANT** **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.

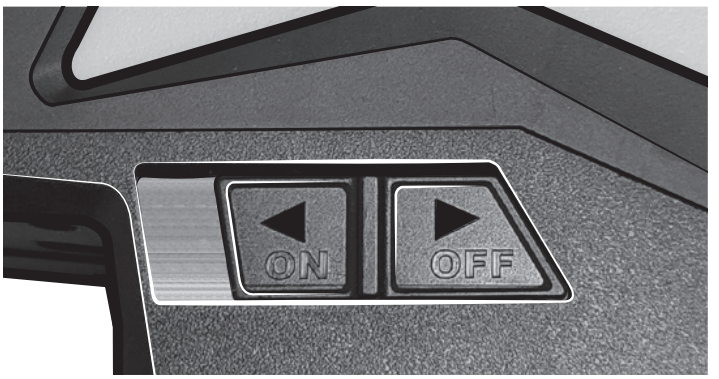
# OPERATIONS

**WARNING** **Do not subject the laser tool to extreme temperatures or variations in temperature.** As an example, do not leave it in vehicles for long time. In case of large variations in temperature, allow the instrument to adjust to the ambient temperature before putting it into operation. In case of extreme temperatures or variations in temperature, the accuracy of the instrument can be impaired.

**Avoid heavy impact to or falling down of the instrument.** After severe exterior effects to the instrument, it is recommended to carry out an accuracy check each time before continuing to work.

**This laser tool is a precision instrument and should be treated with care.**

**IMPORTANT** When not in use, the Safety Lock/ Automatic Leveling Switch **6** should always be in the **OFF** position.



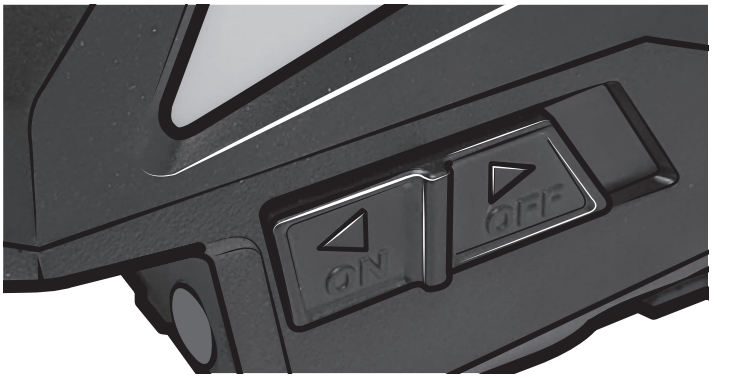

This locks the pendulum and allows the laser to better withstand vibration and trauma incurred during transportation or if the unit is dropped.

## SETTING UP THE INSTRUMENT

Position the instrument on a firm surface, mount it to a tripod or to the multi-mount device. Due to the leveling accuracy, the laser tool reacts sensitively to ground vibrations. Therefore, pay attention that the position of the instrument is stable in order to avoid operational interruptions due to re-leveling.

## POWER ON AND OFF

To Power ON the tool, slide the Safety Lock / ON / Automatic Leveling Switch **6** to the **ON** position.



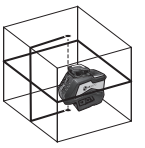

The horizontal laser plane, vertical laser line, and up and down plumb laser points appears in self-leveling mode. The Battery Indicator **1c** will illuminate red.

If the base of the laser tool is placed improperly and exceeds the range of 3.5°, the laser beam will blink rapidly.

Reposition the laser tool that it is more horizontal or level.

# OPERATING MODE

The laser tool has three (3) operating modes. When the unit is first powered ON, the default operating mode is 360°Horizontal Plane, Vertical Line, Up/Down Plumb Points. Press the Operating Mode Button (MODE) **1e** to switch through in sequence:

| MODE | Operating Mode | Laser Beam |
|---|---|---|
| Start Up | **360°Horizontal Plane, Vertical Line, Up/Down Plumb Points** Self-Leveling Mode |  |
| Press **1** | **360°Horizontal Plane** Self-Leveling Mode |  |
| Press **2** | **Vertical Line, Up/Down Plumb Points** Self-Leveling Mode |  |
| Press **3** | **360°Horizontal Plane, Vertical Line, Up/Down Plumb Points** Self-Leveling Mode |  |

## Brightness Setting

To select the brightness setting press Brightness Button (BRIGHT) **1b**. There are three settings:

| BRIGHT | Brightness Setting Mode |
|---|---|
| Initial Setting | **100% Brightness** |
| Press **1** | **60% Brightness** |
| Press **2** | **40% Brightness** |
| Press **3** | **100% Brightness** |

While the unit is in Brightness Setting Mode, the Brightness Indicator **1a** with blink slowly.

## Manual Mode

To power ON the laser tool in Manual / Slope Mode, slide the Safety Lock/ Automatic Leveling / ON Switch **6** to the **OFF** position. Press and hold the Manual Mode Button **1b** to disengages self-leveling and power ON the laser unit in manual mode. While in manual mode the lasers with blink slowly. The Operation Mode and Detector Mode can be set in while in the Manual Mode.

This allows the laser tool to be placed in any position, at any angle or slope.

To turn OFF Manual / Slope Mode press and hold the Manual Mode Button **1b** to disengages self-leveling and power ON the laser unit in manual mode

## Detector (PULSE) Mode

The Detector (Pulse) Mode **1d** allows the laser tool to be used with an optional line laser detector. To activate this mode:

Place laser in desired Operating Mode **1e**. Press and hold the Detector (Pulse) Mode/Operating Mode button (BRIGHT) **1b**. The Detector Mode Indicator 1**d** will illuminate red. The laser beams will blink slowly.

# CHECK ACCURACY

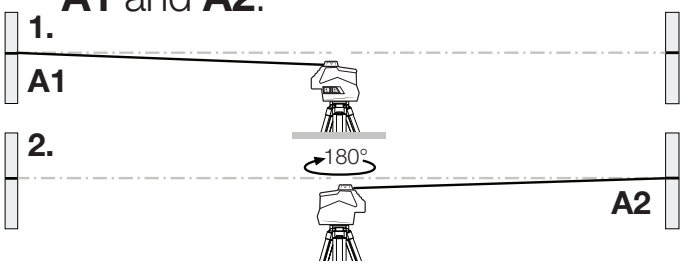
The ambient temperature has the greatest influence on the accuracy.

## Preparing The Calibration Check

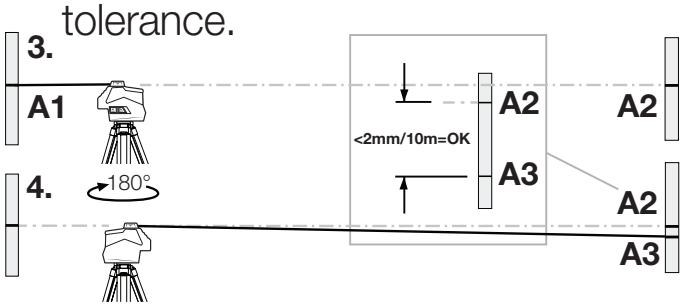
The tool should be mounted on a tripod. If possible, set up the tool in the center of the work area on a tripod.

Use an area with a distance of approximately 16 feet (5 m) between

1. Mark point **A1** on the wall.
2. Turn the device through 180° and mark point **A2**. You now have a horizontal reference between points **A1** and **A2**.




3. Position the device as near as possible to the wall at the height of point A1.
4. Turn the device through 180° and mark point A3. The difference between points A2 and A3 is the tolerance.




The difference between A1 and A2 is the tolerance. When the A1 and A2 is more than 1/8” at 30ft (2mm at 10m) apart, an adjustment is necessary. Contact your authorized dealer.

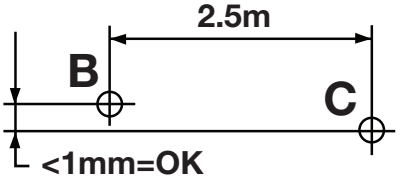
## Checking the Leveling Accuracy of the Vertical Line

Position the device about 16-ft (5m) from a wall. Fix a plumb bob with a line of 8-ft (2.5m) length on the wall, making sure that the bob can swing freely. Switch on the device and align the vertical laser to the plumb line.

The precision is within the specified tolerance if the deviation between the laser line and the plumb line is not greater than ±1/32-in (±1mm).

## Checking the Leveling Accuracy of the Horizontal Line

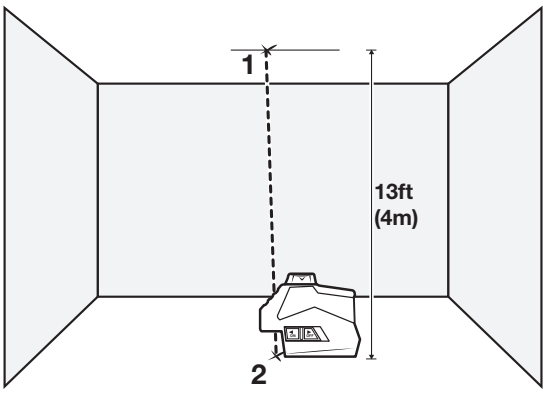
Position the device about 16-ft (5m) from a wall and switch on the cross laser. Mark point B on the wall. Turn the laser cross approx. 8-ft (2.5m) to the right and mark point C. Check whether the horizontal line from point C is level with point B to within ±1/32-in (±1mm). Repeat the process by turning the laser to the left.



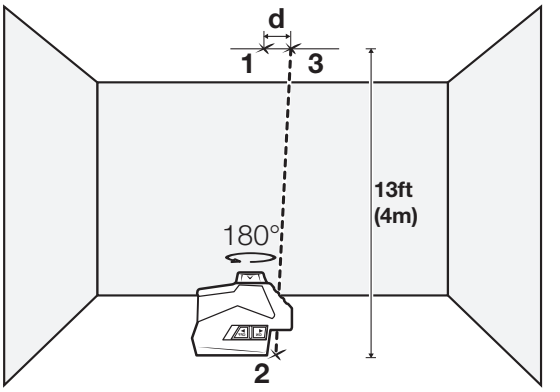
## Checking the Vertical Plumb Points Accuracy

Use a interior room with a measuring height of approximately 13 feet (4 m).

- Mount the laser tool onto a tripod or place it on a firm level surface approximately 3-ft (1m) preferably from floor. Switch ON laser tool.
- Position the laser tool in such a manner that the plumb up beam points against a line on the ceiling.
- Mark the center of the upper laser point on the line (point **1**). Then, mark the center of the laser point on the floor (point **2**).




- Rotate the laser tool by 180° and position the plumb down laser beam directly on the mark on the floor (point **2**) and the upper laser point is directed against the line on the ceiling.
- Allow the tool to level in. Mark the center of the plumb up laser point on the line on the ceiling (point **3**).




- The difference **d** of both marked points **1** and **3** on the ceiling results in the actual deviation of the tool to the plumb line.
- The difference **d** between points **1** and **3** should not exceed 1/8-inch (3 mm).

# MAINTENANCE AND SERVICE

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

**Keep the tool clean at all times.**

**Do not immerse the tool into water or other fluids.**

**Wipe off debris using a moist and soft cloth.** Do not use any cleaning agents or solvents.

**Regularly clean the surfaces at the exit opening of the laser in particular, and pay attention to any fluff of fibers.**

If the tool should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an authorized after-sales service center for Dave White's SitePro instruments. In all correspondence and spare parts orders, please always include the model number and serial number of the instruments.

**All precision instruments should be cleaned, lubricated, checked and adjusted ONLY at a qualified instrument repair station or by the manufacturer, at least once a year.**

**In case of repairs, send in the instrument packed 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.

# LIMITED WARRANTY

Dave White's SitePro ("Seller") warrants to the original purchaser only, that KS-series laser tools will be free from defects in material or workmanship for a period of one (1) year from date of purchase.

SELLER'S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the repair or replacement of parts, without charge, which are defective in material or workmanship and which have not been misused, carelessly handled, or mis-repaired by persons other than Seller or an Authorized Service Center. To make a claim under this Limited Warranty, you must return the complete product, transportation prepaid, to any SitePro Authorized Service Center. Please include a dated proof of purchase with your tool. For locations of nearby service centers, e-mail us at info@dwsitepro.com or call 1-855-354-9881.

THIS LIMITED WARRANTY DOES NOT APPLY TO ACCESSORY ITEMS SUCH AS TRIPODS, RODS, HAND LEVELS, FIELD SUPPLIES, TAPES, MOUNTING DEVICES AND OTHER RELATED ITEMS. THESE ITEMS RECEIVE A 90 DAY LIMITED WARRANTY.

All rotary lasers and optical instruments will be free from defects in material or workmanship for a period of two (2) years from date of purchase.

ANY IMPLIED WARRANTIES SHALL BE LIMITED IN DURATION TO ONE YEAR FROM DATE OF PURCHASE. SOME STATES IN THE U.S., AND SOME CANADIAN PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

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.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE IN THE U.S., OR PROVINCE TO PROVINCE IN CANADA AND FROM COUNTRY TO COUNTRY.

THIS LIMITED WARRANTY APPLIES ONLY TO PRODUCTS SOLD WITHIN THE UNITED STATES OF AMERICA, CANADA AND THE COMMONWEALTH OF PUERTO RICO. FOR WARRANTY COVERAGE WITHIN OTHER COUNTRIES, CONTACT YOUR LOCAL SITEPRO DEALER OR IMPORTER.

# TECHNICAL DATA

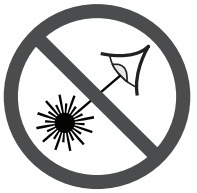
| | KS32LP-G |
|---|---|
| **Accuracy** | ± 1/8-in at 30 ft (± 2.5 mm at 10 m) |
| **Leveling** | |
| Leveling Type | Self-Leveling |
| Compensation | Magnetic Dampening with Lock Switch |
| Leveling Range | ± 3.5º |
| **Beam** | Green |
| Laser Diode | 510-540 nm <1mW |
| Laser Hazard Class | Class 2 |
| **Operating Range** | |
| without Detector | 80 ft (25 m) dependent on illumination of work area;<br>Laser Points: 65 ft (20m) |
| with Detector (Optional) | 165ft (50 m) |
| **Environment** | +32º F to 122º F (0º C to 50º C) |
| **Power Source** | 7.4V Lith-ion rechargeable battery pack |
| Run Time (typical) | up to 8+ hrs of continuous use |
| **Dimension** | 2.75 x 4.870 x 5.25” (70 x 124 x 133 mm) |

# IMPORTANT SAFETY INSTRUCTIONS

**WARNING** **Read all instructions. Failure to follow all instructions listed below may result in hazardous radiation exposure, electric shock, fire and/or serious injury.**

**All labels on your laser are for your safety and must not be removed.** Removing labels increases the risk of exposure to laser radiation. Do not throw this manual away.

**If glass light house breaks when dropped, contact customer service immediately.** Broken glass can cause laceration hazard and unit to lose its IP rating.



**DO NOT direct the laser beam at persons or animals and do not stare into the laser beam yourself. This tool produces laser class 2 laser radiation and complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007. This can lead to persons being blinded.**

**DO NOT remove or deface any warning or caution labels. Removing labels increases the risk of exposure to laser radiation.**

**Use of controls or adjustments or performance of procedures other than those specified in this manual, may result in hazardous radiation exposure.**

**ALWAYS make sure that any bystanders in the vicinity of use are made aware of the dangers of looking directly into the laser tool.**

**DO NOT place the laser tool in a position that may cause anyone to stare into the laser beam intentionally or unintentionally.** Serious eye injury could result.

**ALWAYS position the laser tool securely.** Damage to the laser tool and/or serious injury to the user could result if the laser tool falls.

**ALWAYS use only the accessories that are recommended by the manufacturer of laser tool.** Use of accessories that have been designed for use with other laser tools could result in serious injury or unsatisfactory performance.

**DO NOT use this laser tool for any purpose other than those outlined in this manual.** This could result in serious injury or unsatisfactory performance.

**DO NOT leave the laser tool "ON" unattended in any operating mode.**

**DO NOT disassemble the laser tool.** There are no user serviceable parts inside. Do not modify the product in

any way. Modifying the laser tool may result in hazardous laser radiation exposure.

## WORK AREA SAFETY

**Keep work area clean and well lit. Cluttered or dark areas invite accidents.**

**DO NOT operate the laser tool around children or allow children to operate the laser tool.** Serious eye injury could result.

**DO NOT use instruments, attachments and accessories outdoors when lightening conditions are present.**

## ELECTRICAL SAFETY

**Batteries can explode or leak, cause injury or fire. To reduce this risk, always follow all instructions and warnings on the battery label and package.**

**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.

**DO NOT short any battery terminals.**

**DO NOT charge alkaline batteries.**

**DO NOT mix old and new batteries.**

**Replace all old batteries at the same time with new batteries of the same brand and type.**

**DO NOT mix battery chemistries.**

**Dispose of or recycle batteries per local code.**

**DO NOT dispose of batteries in fire. Keep batteries out of reach of children.**

## PERSONAL SAFETY

**Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating a tool may result in serious personal injury or incorrect measurement results.

**Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

**DO NOT use the laser viewing glasses as safety goggles.** The laser viewing glasses are used for improved visualization of the laser beam, but they do not protect against laser radiation.

**DO NOT use the laser viewing glasses as sun glasses or in traffic.** The laser viewing glasses do not afford complete UV protection and reduce color perception.

**DO NOT use any optical tools such as, but not limited to, telescopes or transits**

**to view the laser beam.** Serious eye injury could result.

**DO NOT stare directly at the laser beam or project the laser beam directly into the eyes of others.** Serious eye injury could result.

**Use caution when using instruments in the vicinity of electrical hazards.**

## MAGNETS

**Keep the tool, universal mount, and laser target away from cardiac pacemakers.** The magnets of the tool and laser target plate generate a field that can impair the function of cardiac pacemakers.

**Keep the tool and laser target away from magnetic data medium and magnetically-sensitive equipment.**

**The effect of the magnets of the tool and laser target plate can lead to irreversible data loss.**

## USE AND CARE

**Use the correct tool for your application.** The correct tool will do the job better and safer.

**Do not use the tool if the switch does not turn it on and off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.

**Store idle tool out of the reach of children and do not allow persons unfamiliar with the tool or these instructions to operate the tool.**

**Tools are dangerous in the hands of untrained users.**

**Maintain tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the operation.** If damaged, repair tool before use. Many accidents are caused by poorly maintained tools.

**Use the tool, accessories, etc., in accordance with these instructions and in the manner intended for the particular type of tool, taking into account the working conditions and the work to be performed.** Use of the tool for operations different from those intended could result in a hazardous situation.

## SAVE THESE INSTRUCTIONS.

Dave White's SitePro™



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