





OPERATING MANUAL

CONSIGNES DE FONCTIONNEMENT INSTRUCCIONES DE FUNCIONAMIENTO



model | modelo KS2L-G

CROSS-LINE LAYOUT LASER



IMPORTANT: Read Before Using

IMPORTANT: Lire avant usage **IMPORTANTE:**

Leer antes de usar

KEEP IT SIMPLE WITH THE KS-SERIES

Congratulations! You've purchased a SitePro laser that is simple to use with onebutton operation for precise and accuracy layout and leveling. The purpose of this user's guide is to acquaint you with the laser tool, its components, safety, proper care and handling.

All instruments are adjusted 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 instruments that are out of adjustment. Contact your distributor, dealer or SitePro for information on the nearest facility to check if your instrument is properly adjusted.

All specifications are subject to change without notice.



INTENDED USE

This laser tool projects a vertical and horizontal laser line. Projects two lines independently or together for a wide range of level and/or plumb applications. Intended for determining and checking horizontal and vertical lines- level, horizontal and vertical layout, alignment of walls, partitions installing cabinets, trim and finish carpentry.

The KS2L is suitable for indoor and may be used outdoors with optional detector.

FEATURES AT A GLANCE

The numbering of the product features shown refers to the illustration of the tool on page 2.

- 1. Control Keypad
- 1a. Detector (Pulse) Mode Indicator
- 1b. Detector (Pulse) Mode Button
- 1c. Leveling Indicator
- 1d. Power / Battery Indicator
- 1e. Operating Mode Button
- 2. Exit opening for laser beamproduces vertical laser line

- **3.** Exit opening for laser beamproduces horizontal laser line
- 4. Safety Lock/ON/Automatic Leveling Switch
- 5. 1/4-20 Mounting Thread
- 6. 5/8-11 Mounting Thread
- 7. Battery Compartment Door
- 8. Latch Release

PREPARATIONS

This laser tool is shipped with four (4) 1.5v AA alkaline batteries.

The Battery/Power Indicator **1c** blinks and turns off when batteries need replaced.

INSERTING/REPLACING BATTERIES

Alkaline batteries are recommended for use to power this laser tool.

MARNING

Always replace all alkaline batteries at

the same time. Only use batteries from one brand and with the identical capacity.

KS2L-G • 3

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.

Open the battery compartment door 5 by pressing the latch release 6.

When inserting batteries, pay attention to the correct polarity (+ and -) according to the representation on the

inside of the battery compartment.

Close the battery compartment door 5. Push down until the door latch 6 clicks into the secure position.

IMPORTANT

the hatteries 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.

MIMPORTANT

When not in use, the Safety Lock/

Automatic Leveling Switch 4 should always be in the \triangle lock 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 wall mount with alignment unit. 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 4 to the **ON** position.



The laser cross appears in self-leveling mode. The Leveling Indicator 1c will illuminate green.

If the base of the laser tool is placed improperly and exceeds the range of 3°, the laser beam will blink rapidly, and Leveling Indicator **1c** will illuminate red.

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 Cross Line Mode. Press the Operating Mode Button 1e to switch through

in sequence:

MODE	Operating Mode	Laser Beam
Start Up	Cross Line Self-Leveling Mode	+
Press	Horizontal Layout Self-Leveling Mode	_
Press 2	Vertical Layout Self-Leveling Mode	
Press 3	Cross Line Self-Leveling Mode	+

Manual Mode

To power ON the laser tool in Manual / Slope Mode, slide the Safety Lock/ Automatic Leveling / ON Switch 4 to the lock position. Manual Mode disengages self-leveling. Laser cross appears in manual mode and the Leveling Indicator 1c will illuminate red. The laser beam will flash to indicate that the laser tool is not self-leveling.

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

Detector (PULSE) Mode

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

Place laser in desired Operating Mode 1e. Press Detector (Pulse) Mode button (£) 1b. The Detector Mode Indicator a will illuminate green.

CHECK ACCURACY

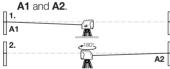
The ambient temperature has the areatest influence on the accuracy.

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.
- Turn the device through 180° and mark point A2. You now have a horizontal reference between points



- Position the device as near as possible to the wall at the height of point A1.
- 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 $\pm 1/32$ -in (± 1 mm).

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 $\pm 1/32$ -in (± 1 mm). Repeat the process by turning the laser to the left.



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 fihers

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) vear 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, email 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

	KS2L-G
Accuracy	± 1/8-in at 30 ft (± 2 mm at 10 m)
Leveling	
Leveling Type	Self-Leveling
Compensation	Magnetic Dampening with Lock Switch
Leveling Range	± 3°
Beam	Green
Laser Emission Angle	120 degrees

	KS2L-G
Laser Diode	520 nm <1mW
Laser Hazard Class	Class 2
Operating Range	
without Detector	65 ft (20 m) dependent on illumination of work area
with Detector (Optional)	165ft (50 m)
Environment	+32° F to 122° F (0° C to 50° C)
Power Source	Four (4) AA Alkaline Batteries
Run Time (typical)	8+ hrs of continuous use
Dimension	2.6 x 3.95 x 4.95-in (66 x 100 x 125 mm)
Weight (no batteries)	1.3 lb (570 g)

IMPORTANT SAFFTY INSTRUCTIONS

Read all instructions. **WARNING** 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 vourself. 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 eve 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.

10 • KS2L-G dwsitepro.com

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.



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