

## PRODUCT DESCRIPTION



The Stanley CL-E is a self levelling cross-line laser level which uses a single multi function button to project a series of solid laser lines, including vertical (plumb), horizontal (level) and a 90° cross line. By using the manual mode (see **fig 2, image 4**) the cross line may be turned in any orientation. The CL-E incorporates a self levelling feature which gives a visual alert when the projected line is out of level. The CL-E is a heavy duty tool with a working range of up to 30M/(100') depending on the ambient light conditions.

## ACCESSORIES

The following accessories are included in the CL-E kit:

- Graduated Laser Pole having an extended length 3M (9' 6") (**fig A**)
- Removable platform incorporating 1/4"-20 mounting screw (**fig B**)
- Pole Clamp assembly (**fig C**) incorporating clamp screw (**2c**) and quick release push button (**1c**)

## PRODUCT APPLICATIONS (Fig. 6)

- Installing wardrobes
- Decorating and tiling
- Partition walls and plasterboard
- Carpentry and joinery
- Shelving and cabinets
- Installing doors and windows

## SAFETY INSTRUCTIONS

Carefully read the Safety Instructions and User Manual before using this product. The person responsible for the instrument must ensure that all users understand and adhere to these instructions

**Do not** remove the warning label on the side of the housing

This instrument must only be used for levelling and layout tasks as outlined above.

**Do not** use in combination with other optical instruments. Do not modify the instrument, or make manipulations or use in other applications than those described in the manual. Such activities can lead to dangerous laser outputs

**Do not** stare into the laser beam or direct it towards other persons. Make sure the instrument is not set at eye level. Eye protection is normally afforded by aversion responses such as the blink reflex.

**Do not** look into the beam with optical aids such as magnifiers, binoculars or telescopes

**Do not** direct the laser beam at other persons.

Since the laser beam is of the focussed type, ensure you check the beam's path over a relatively long distance and take all necessary precautions to ensure the beam cannot interfere with other persons

Ensure that the correct batteries as recommended are used

Ensure the batteries are inserted in the correct manner, with the correct polarity

**Do not** use this instrument in areas where a risk of explosion is present



## **LASER CLASSIFICATION**

This product produces a visible laser beam. It is a Class 2 laser product in accordance with IEC60825-1:2001 and EN60825-1:2001.

This product complies with all applicable portions of title 21 of the USA Code of Federal Regulations set by the Dept of Health, Education and Welfare, the Food & Drug Administration, the Center for Devices & the Bureau of Radiological Health.

## **DECLARATION OF CONFORMITY**

The Stanley Works declares that these products conform to:  
EN60825-1, 89/336/EEC; EN61010, 2001/95/EC, 2002/96/EC, EN61000-6(EN50082-1), EN61000-6-3(EN50081-1)

Signed by



Alisdair Cumming  
Director of Engineering & Technology  
Hellaby Industrial Estate  
Rotherham  
02/06

## **OPERATING CONTROLS (Fig 1)**

- 1 Multi-Function Button
2. Laser Mode LED Indicator
- 3 Laser Output Window
- 4 Battery compartment (remove rubber gaiter for access)

### **Self Levelling mechanism**

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The CL-E automatically and quickly self-levels by means of an internally mounted magnetically dampened compensator. The self levelling range of the unit is +/- 4 degrees.

The out-of-level range sensor will automatically cause the laser beams to blink repeatedly when the unit moves outside the self levelling range. The Laser mode indicator LED (see Fig 2 below) will turn red and also blink repeatedly.

### **On/Off & Multi Function Button (Fig 2)**

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1. Press once to turn the unit on and activate the self levelling horizontal (level) laser line.
2. Press again to change to the vertical (plumb) line.
3. Press again to activate the self levelling 90 degree cross line.
4. Press once more to change to the Manual mode. In this mode, the self levelling compensator is de-activated allowing the 90 degree cross line to be moved without the laser beams flashing.
5. Pressing the button once more turns the unit off

## **Operation (Fig 6)**

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Set the unit on a flat, smooth surface, or mount to the supplied laser pole, ensuring that the unit is reasonably level.

Turn the unit on by pressing the On/Off button. The horizontal laser line will appear. Check that the LED indicator is showing green, confirming that it is within the self levelling range.

If the LED and laser line are flashing repeatedly, re-position the unit so that it is within the self levelling range and that the green LED is showing.

Access the desired line by repeatedly pressing the On/Off multi-function button.

When finished, Press the On/Off multi-function button until the unit turns off Laser pole.

## **Laser Pole (Fig 7)**

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The Laser pole consists of 3 x 1M sections with a "Twist-lock" mechanism plus a spring loaded top section to ensure a tight fit with the ceiling. Before first use, attach the ceiling plate to the ball swivel.

With the rubber foot on the ground, extend each section to the desired length. Each section is unlocked or locked by twisting them appropriately. With the pole in the vertical position, and touching the ceiling, add a little more height until the pole is pushing firmly against the ceiling, then lock. The pole will now fit firmly between floor and ceiling.

Take the pole mounting bracket 'C' and the CL-E mounting bracket 'B' and join them by aligning the 3 holes at the back of the CL-E bracket to the corresponding lugs on the pole mounting bracket 'C' and sliding down to lock them in place.

Take the bracket assembly and screw to the pole by opening the clamp 1c and 2c until it fits over the pole. Re-tighten to the required height.

Mount the CL-E to the bracket assembly using the mounting screw 1b as shown. Ensure it fits snugly to the bracket

The CL-E may now be set to the desired height for easy operation.

## POWER

Use only Alkaline AA size batteries Type LR03 from a reputable manufacturer in the CL-E.

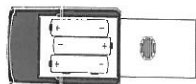


Fig. 3

To insert the batteries, remove the rubber housing from the product, slide open the battery housing cover and insert 3 X batteries in the manner shown in figure 3. It is essential that the correct polarity is used.

## ACCURACY CHECK

As with all levelling instruments, we strongly recommend making an accuracy check before first use and at regular periodic intervals during ownership to ensure maximum accuracy and reliability.

### Check the laser Instrument following these steps:

#### Checking the horizontal line front to back (Fig. 4)

1. Choose two walls approximately 5M/16' apart.
2. Set up the instrument 30cm/1' from wall (W1), project the laser cross onto wall. (W1) and mark the point "A1" where the laser cross hits the wall.
3. Rotate the instrument 180 degrees and project laser cross onto the opposite wall. (W2) and mark the point where the laser cross hits the wall "B1".
4. Reposition the instrument 30cm/1' from wall (W2), project the laser cross onto wall. (W2) and mark the point "B2" where the laser cross hits the wall.
5. Rotate the instrument 180 degrees and project laser cross onto the opposite wall. (W1) and mark the point where the laser cross hits the wall "A2".
6. Measure the distance between "A1" and "A2" and between "B1" and "B2". If the distances are the same, the Instrument is in calibration. If the difference between the two sets of points is greater than 1/2 the specified accuracy the instrument is out of calibration.

## Checking the horizontal line side to side (Fig. 5)

1. Set the instrument up approximately 2.5M/8' from a wall that is at least 5M/16' long.
2. Project the laser cross 30cm/1' from one corner. Mark point (A) along the horizontal laser line 2.5M/8' from the intersection of the laser cross.
3. Rotate the instrument so that the laser cross is projected at the wall 4.6M/15' away from the first laser cross point.
4. The deviation of the horizontal laser line from the point (A) marked previously should not be greater than 1/2 the specified accuracy.

## SPECIFICATIONS

Levelling Accuracy:	+/- 6mm at 9M (1/4" @ 30')
Line length:	18M at 9M (60' at 30')
Working Range:	Up to 30 M (100') depending on ambient light conditions
Self levelling range:	+/- 4°
Fan Angle:	90°
Laser Diode:	635 nm
Laser Class:	2M < 1 Mw power output
Power:	3 X AA alkaline batteries Type LR03
Battery life:	Up to 20 hours intermittent use with cross line output
Compensator type:	Coaxial, gravity type, with magnetic damping
Features:	Out-of-Level Sensor with "manual mode" feature for tilting cross line at extreme angles

The unit is factory calibrated and should never need calibration. If calibration is found to be required, contact the retailer where the unit was purchased.

## OPTIONAL ACCESSORIES

- 1-77-210 aluminium extending tripod with tilting pan head 1/4-20 thread
- 1-77-192 mini Tripod (also allows CL-E to be used with a surveyor tripod)
- 1-77-168 Laser grade adaptor (allows the unit to be set to angles 0-90 °)

## MAINTENANCE & CARE

The CL-E is not waterproof. Do not allow the unit to get wet. Damage to internal circuits will result.

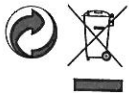
Do not leave the CL-E out in direct sunlight or expose it to high temperatures. The housing and some internal parts are made of plastic and may become deformed at high temperatures.

Do not store the CL-E in a cold environment. Moisture will form on interior parts when warming up. The moisture could fog up laser windows and cause corrosion of internal circuit boards.

When working in dusty locations, some dirt will collect on the laser window. Remove any moisture or dirt with a soft, dry cloth. Do not use aggressive cleaning agents or solvents.

Store the CL-E in its case when not in use. Remove batteries before storage of the instrument.

## ENVIRONMENTAL PROTECTION



Sort the product, packaging and accessories for environmentally friendly recycling when disposing of them

Dispose of used batteries in an environmentally friendly way. Do not throw batteries in the fire or in the household waste



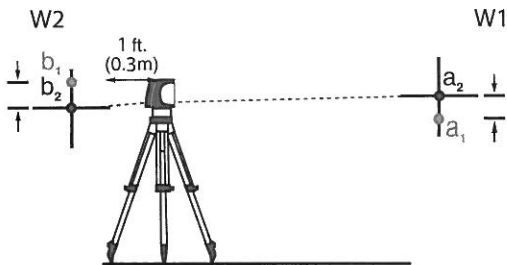
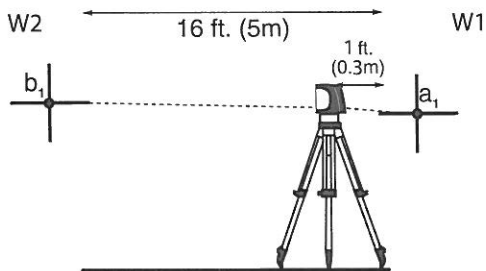


Fig. 4

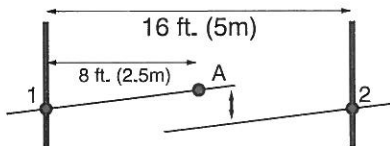


Fig. 5



Fig 6.

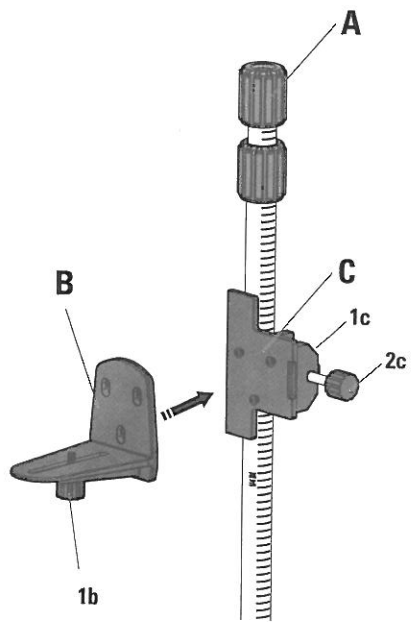


Fig. 7

## WARRANTY

### One Year Warranty

Stanley Tools warrants its electronic measuring tools against deficiencies in materials or workmanship for one year from date of purchase.

Deficient products will be repaired or replaced, at Stanley Tools' option, if sent together with proof of purchase to:-

**Stanley UK Sales Limited,**

Gowerton Road,  
Brackmills,  
Northampton  
NN4 7BW

This Warranty does not cover deficiencies caused by accidental damage, wear and tear, use other than in accordance with the manufacturer's instructions or repair or alteration of this product not authorised by Stanley Tools. Repair or replacement under this Warranty does not affect the expiry date of the Warranty. To the extent permitted by law, Stanley Tools shall not be liable under this Warranty for indirect or consequential loss resulting from deficiencies in this product.

This Warranty may not be varied without the authorisation of Stanley Tools.

This Warranty does not affect the statutory rights of consumer purchasers of this product.

This Warranty shall be governed by and construed in accordance with the laws of England and Stanley Tools and the purchaser each irrevocably agrees to submit to the exclusive jurisdiction of the courts of England over any claim or matter arising under or in connection with this Warranty.

**IMPORTANT NOTE:** The customer is responsible for the correct use and care of the instrument. Moreover he is completely responsible for checking the job along its prosecution, and therefore for the calibration of the instrument. Calibration and care are not covered by warranty.

*Subject to change without notice*

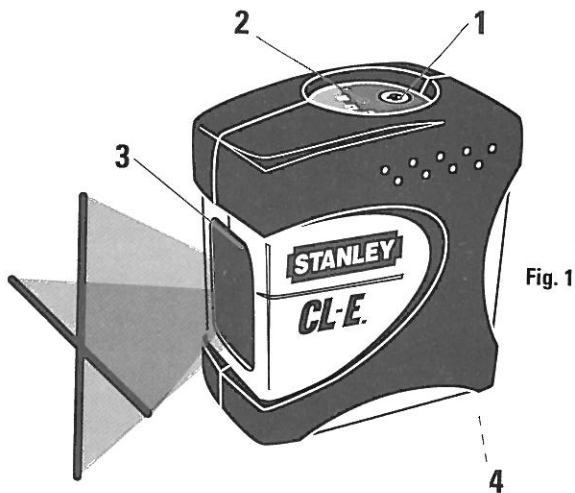


Fig. 1

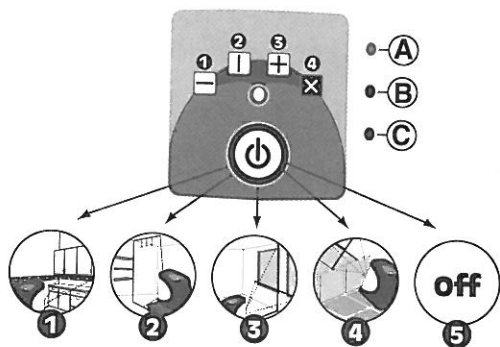


Fig. 2