



# DA530L Digital Angle

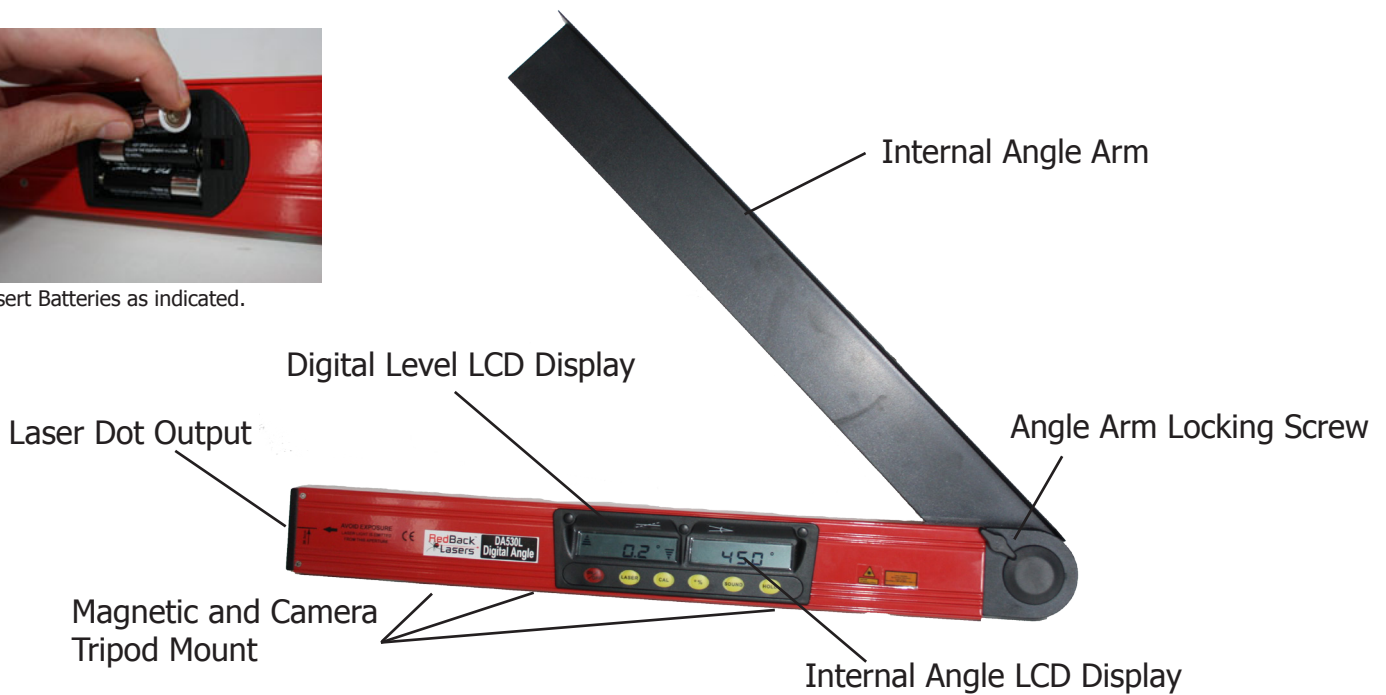
## Instruction Manual

The DA530L is a dual use Digital Level and Digital Angle Measure, the DA530L also features a laser dot useful in internal fit out and levelling.

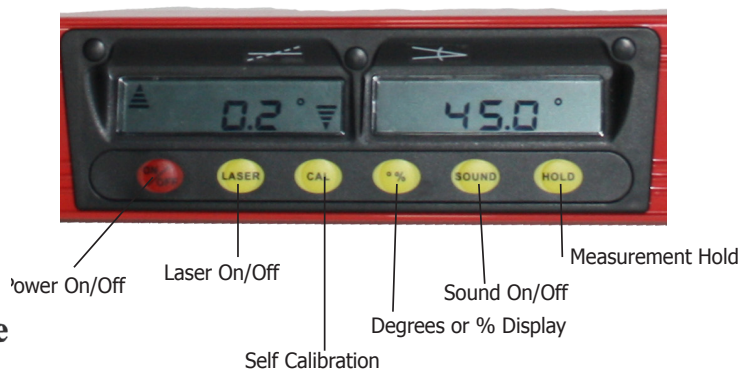
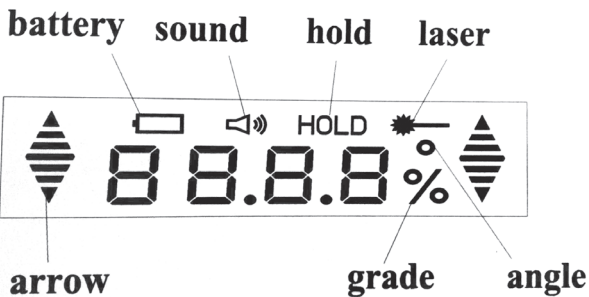
The DA530L can measure surface angles and indicate level on the left hand LCD display. On the right LCD display is indicated the internal angle between the Angle Arm and base of the unit.



Insert Batteries as indicated.



Digital Level Display (left)



Power up the DA530L with the red On/Off button, the left LCD display will show the angle of a surface when placed on it, 0.0, all four arrows and a sound will indicate level. When not level the arrows will indicate which direction the unit needs moving to reach level.

The "Laser" button turns on and off the laser dot which runs parallel to the flat top and bottom surfaces of the unit, this can be used for levelling and other alignment needs.

The Calibration button (CAL) is used to re-calibrate the unit if required instructions on this can be found at the end of this page. Calibration can be checked by simply placing the DA530L on a horizontal surface with the display facing to you, make a note of the measurement then rotate the unit 180 degrees so still upright but battery compartment is now facing you and again note the measurement. Tolerance is 0.1° so if the difference between the two measurements is greater than this then it would be worth re-calibrating the unit.

The Unit button (° %) switches the left LCD display between degrees and percentage, select you desired unit of measurement.

The "Sound" button turns on and off a sound alarm when the unit is level on a surface or a vertical 90° surface.

The "Hold" button allows you to freeze the left LCD display when pressed. This is useful when holding the level on a surface in such a position that you cannot see the display simply press the hold button the measurement will be frozen until you press the hold button again.

To use the Internal Angle arm first unlock the Locking Screw and open up the arm. The display on the right indicates the angle of the arm to the body of the unit in degrees. You can use the Angle arm to extend the length of the level by opening it out until it shows 180° and tightening the locking screw, so making the complete level just over 1m long in total.

Low Battery is indicated by a flashing battery symbol appearing on the left hand LCD display.

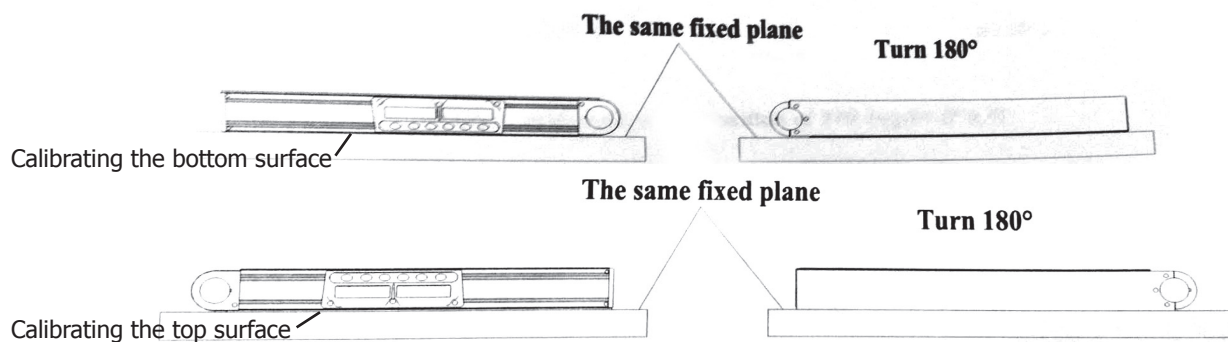
The DA530L will auto power off if no movement has been detected within 6 minutes to save batteries.

## Calibration Instructions

Calibration may be required after sustained vibrations, large temperature variations or any knocks or drops. First check calibration as indicated at the top of this page both for horizontal and vertical accuracy.

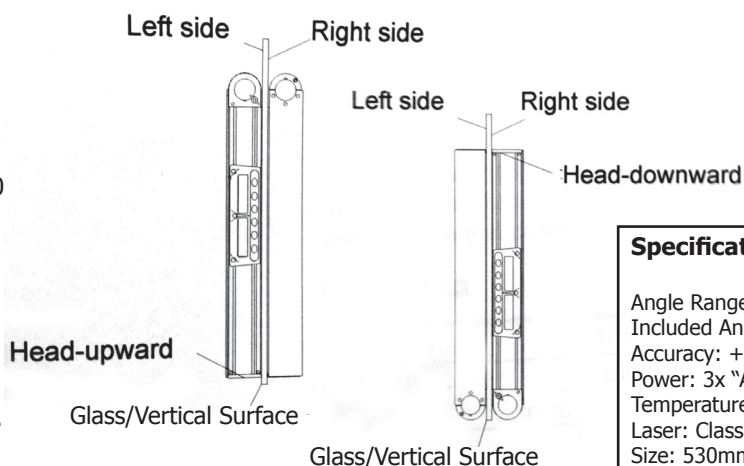
### To calibrate the horizontal level.

1. Place level on horizontal surface and press "CAL" button "-0-" will be displayed, wait 10 seconds.
2. Press "CAL" button again and "-1-" will be displayed, next turn the level 180° on the same levelling surface and wait another 10 seconds.
3. Press "CAL" again "-2-" will display for a moment and a single beep will sound to indicate the calibration is set, if three beeps are sounded calibration has failed and the above process needs to be repeated.
4. Repeat steps 1 to 3 but with the level upside down on its top surface this calibrates this surface if required. (see diagrams)



### To Calibrate the Vertical

1. Place the level on a solid double sided vertical surface, ideally glass window with the hinge to the top press the "CAL" button "-0-" will be displayed wait 10 seconds.
2. Press "CAL" button again and "-1-" will be displayed, place the level on the other side of the surface wait another 10 seconds.
3. Press "CAL" once more "-2-" will be briefly displayed and a single beep will indicate calibration is successful, three beeps and steps 1 to 3 will need to be repeated.
4. Repeat steps 1 to 3 again but this time with the levels hinge at the bottom. (see diagrams)



### Specifications

Angle Range 4x90°  
 Included Angle: 0° - 182.5°  
 Accuracy: +/-0.1o  
 Power: 3x "AA" Batteries  
 Temperature: -10°C - +45°C  
 Laser: Class II 635nm 1mW  
 Size: 530mm x 63mm x 40mm