

Quick Start LS5000

INSTRUCTIONS



from P.R.Engineering Ltd www.laser-level.co.uk Tel: 01246 269 777

Thank you for purchasing the **LS5000** Manual Rotary laser level kit. These instructions are intended to explain the quick basics to operating this equipment. If you need any more information, or the unit requires calibration or repair, then please contact our Service Dept on tel 01246 269 777 or fax 01246 260 007. We are here to help.

Power source:

Unclip the battery cover & carefully remove.

Fit 4 x type AA, alkaline batteries. Take care with correct polarity as marked on the case. Refit battery cover. The LS5000 will accept rechargeable batteries but there is no provision for charging in the laser. You will need to charge these batteries externally. We would also recommend that a spare set of batteries are kept in the carry case as a back-up.

Positioning the Laser:

Mount the LS5000 on a generally level, firm surface or 5/8" threaded Tripod. To operate correctly this surface must be within +/-5 deg of true horizontal. The laser can be used Indoors or Outside, where it is waterproof to IP54.

Principle of Operation:

This is a MANUAL laser with three bubble levels: 2 for horizontal setting & 1 bubble level for setting vertical (plumb).

Horizontal:

Having positioned the laser, using the two colour coded base screws, the User must carefully centralise both bubble levels. These positions must be maintained throughout the setting-out period. Important note - the laser will keep running even if the bubbles drift out of perfect level; so take care!

Vertical:

Having positioned the laser on its provided stand, the User must carefully centralise the single bubble level in the side of the instrument. This position must be maintained throughout the setting-out period. Important note - the laser will keep running even if the bubble drifts out of perfect level, so take care!

Controls:

The ON/OFF switch is the right hand button, located on the instrument's keypad. Position laser & centralise bubble levels, as described above. Switch ON. The two red LEDs will illuminate & the laser head rotate. The rotational speed can be varied using the + or - buttons. Hold down to vary the speed as required. Use a slow speed for Indoor work because its easier to see the laser beam by eye. However, outdoors, set the speed to MAXIMUM & use the provided Detector.

Scan:

The right hand button on the keypad operates the Scan facility, recommended for Indoor work only. Press the button, red LED flashes & an intense Line is projected onto the wall. Press again for a longer Line; or again for a static Dot. Another press restores rotational operation.

In *scan* mode, the laser Line can be moved around the room using either the + or - buttons.

To prevent disturbing the LS5000, all the above operations can be made using the Remote Control. Fit a 9V battery & point the IR remote directly at the laser. The LS5000 can be switched OFF via the remote but not ON. It is important that the User confirms the bubble levels are perfectly set before switching on the laser via its keypad only.

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Grading & Squaring:

The LS5000 does have both a manual grading & squaring facility.

Grading:

Simply point the axis of the laser in the direction of the "grade / slope" required & adjust the base thumb-wheel accordingly.

Squaring:

In "lay-down", the LS5000 will set 90 degree squaring via its prism head. One axis is the rotating beam & the other, a static red Dot. A red target plate may aid this setting-out process.

LS700 Detector:

(optional extra & pictured on the left)



Fit the supplied 9V battery, polarity marked. Power up - via red ON/OFF button. The middle button sets either **coarse** (+/-2mm) or **fine** (+/-1mm) pick-up window resolution.

The User can switch the sounder ON or OFF, as required, using the top button. There is no back-light facility.

A rear LCD simply repeats the main front display.

Use with or without its staff mounting bracket. Spare brackets are available.

Detector Procedure – face the detector towards the LS5000 & find the rotating laser beam via the red pick-up window. Obtain a continuous tone to indicate perfect true level.

If the sun is low in the sky & shining into the red window, shield it with a cupped hand to prevent false readings. Positioning the LS5000 laser itself in full sun is no problem but the detector window can in some instances, be affected by direct bright sunlight or reflections. So please take extra care!
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SAFETY PRECAUTIONS:

Comply with class II laser operating safety procedures.

Display a **Laser Safety Notice** in the working area.

General Advice:

This is an accurate measuring device - so to give good service, look after it!

Prevent the LS5000 from receiving severe knocks, bangs or vibration.

Store the laser & its accessories in the supplied, foam-lined carry case.

If wet, dry before storing & keep in storage temperatures between 5-30 deg C.

Remove all batteries before long term storage, to prevent internal damage.

There are NO User serviceable parts.



We offer a full Back-up service including repairs, calibration & usage advice.

Accessories for the various Trades are also available - on request.

eg. Tripods, staffs, wall brackets & screeding poles etc.

Please contact us:

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