

Quick Start FRE-202

INSTRUCTIONS

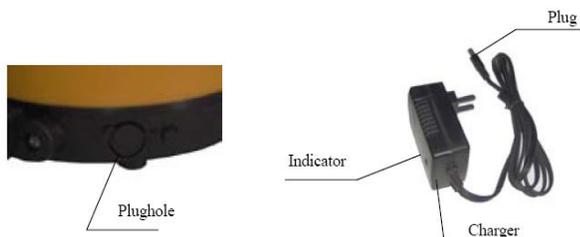


from P.R.Engineering Ltd www.laser-level.co.uk Tel: 01246 269 777

Thank you for purchasing the **FRE-202** Auto 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:

Unscrew the battery cover screw & remove panel – it is a very tight fit. Fit 4 x AA rechargeable batteries. The mains charger (supplied) will charge most batteries in around 8 hours. It takes 4 to 5 charge/discharge cycles for batteries to reach their maximum capacity. Charger red LED = charging; green LED = fully charged. The laser can be operated with the charger connected to the mains supply, if required. On receipt of your *new* laser, charge batteries fully overnight. If FRE-202 is used daily then again, leave on-charge the night before. Four x AA Alkaline batteries can be used instead or in emergency, but do NOT attempt to recharge them, otherwise damage will occur.



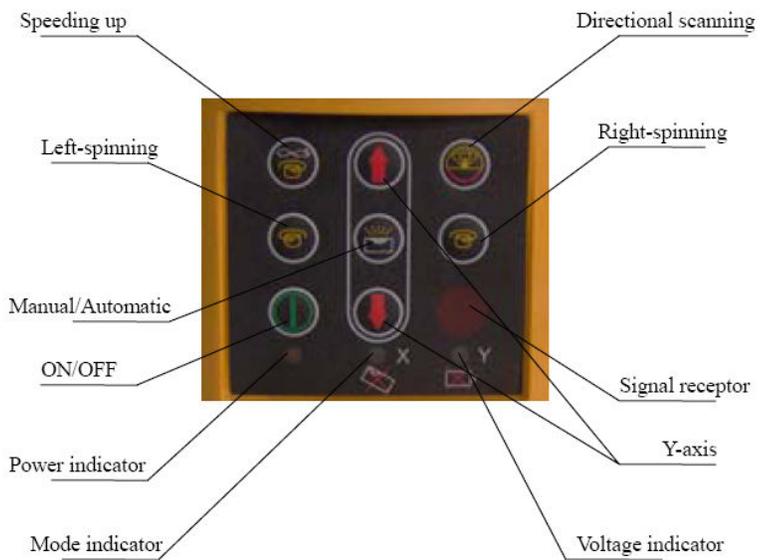
1. Introductions

2.1 Main body



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2.2 Panel



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Positioning the Laser:

Mount the FRE-202 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 IP64.

Controls:

Power ON/OFF via the green button. Red LED illuminates, laser takes a few seconds to auto level & then the head rotates & projects visible red laser beam.

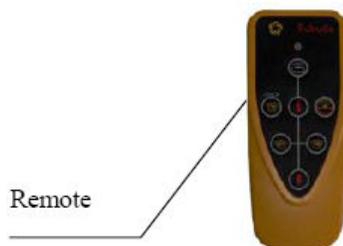
"Speeding-up" button, stops dot then increases speed in 4 steps up to 600rpm. For Interior work use slower speeds, where it is easier to see; but for Exterior Groundworks – run the laser @ its max speed, which gives the best range when using the laser Detector.

"Directional scanning" button, stops dot then gives increasing line lengths with every press. Lines are self leveled. Use "left-spinning" & "right-spinning" buttons to move these lines to your area of working, around the room.

Grading:

Setting a single axis slope. This sets the grade in XX axis across the instrument. Procedure – switch ON, laser auto levels. Press central button (bubble level) "Manual/Automatic" green LED X illuminates. Laser is now set for MANUAL. Use red up & down arrows to set appropriate grade/slope. To return to Auto level, press central button again & green LED goes off.

Remote Control:



Fit 2 x AAA batteries, polarity marked.

ALL THE ABOVE CONTROLS & GRADING can be set using Remote's keypad. In fact it is better to use the Remote rather than the instruments keypad, because then you do not disturb the lasers sensitive mechanism, causing it to stop.

Detector:

Fit 9V battery, polarity marked. Power up via ON/OFF button.

Middle button sets coarse (+/-2mm) or fine (+/-1mm) setting.

Top button switches sounder ON or OFF.

Rear LCD repeats main front display.

Use with or without staff mounting bracket.

Procedure – face towards rotating laser & pick-up signal via red window.

If the sun is low in the sky & into red window, shield it with a cupped hand to prevent false readings. Positioning the FRE-202 in full sun is no problem, but the detector window can in some instances be affected by bright sunlight or reflections. So take extra care.

SAFETY PRECAUTIONS:

Comply with class II laser operating safety procedures.

Display a Laser Safety Notice in the work area.

General Advice:

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

Prevent it from receiving severe knocks, bangs or vibration.

Store laser & accessories in the supplied 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 damage.

There are no User serviceable parts.



We offer a full back-up service including repairs, calibration & hire of equipment.

Please contact us:

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