



**Geodetic Supply & Repair Pty Ltd**

**T/A GSR Laser Tools**

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Ref: Plummet-Made in China

Regards to the "DJZ2" Laser & Optical Plummet-Why we charge what we charge

For all those who appreciate an Instrument working to the claimed specifications feel free to read on.

Different Chinese factories work to different standards,  
even producing "the same product"

Standard of pre-sale preparation of each Laser & Optical plummet  
**New Units** – made in China

**The meaning of Calibration for this type of new device**

- Check tribrach, needs to be firm, if not replace
- Instrument Vial: must be firm, if not replace
- Instrument base, must be firm in rotation, if not need service
- Down Beam: Check & calibrate at 0.1m & 1.5m with standard focusing assembly.  
If focusable at 0.1m & infinity
- Optical Zenith: check at 2m to infinity: adjust to specs (1:45000)
- Laser beam: as above, plus confirm Dot size
- Laser / optical: Must be parallel, if not repair / align
- Check & confirm runout at exit (Optical path & Laser Beam to 0.5mm)

Certificate supplied at time of purchase

**Used Units** sent in for calibration & certification  
(please check for current inspection fee payable at time of booking in)

Same procedure as per new unit plus:

- It helps if any unit sent to us is in good working order & clean condition.
- Check if any work has been done by any other workshop  
# If yes, will check if all adjusting screws are moving freely, all basic mechanical measurement adjustable assemblies are in "neutral" position.  
If not, this will add extra cost
- Check for moisture intrusion
- Base / Axle assembly to be firm & easy to rotate.  
If worn needs to be repaired or replaced
- Vial to settle and or end up with a 1/4 of index.  
If not lower base to be re-serviced.
- Check for rotational accuracy

This is to confirm the Optical / Laser plummet will be within the specified tolerance of  
1:45'000 (or +/- 2.2mm/100m)

Certificate supplied at time of work completed

Interested in high accurate Nadir / Zenith Plummet don't hesitate to call