



Applied Resolution Technologies

Laser application technologies : Mining, Oil & Gas, Agriculture, Industrial

RLX-635

+/- 500m range

SINGLE OPERATOR RED LASER ALIGNMENT SYSTEM

Theodolite mounted laser MODULE

Theodolite : USER-SUPPLIED



Specifications :

- Visible laser 635nm (red)
- Laser power < 5.0mW , rotating with safety cutout. Class 2 specification based on exposure with laser cut-out should the rotating mechanism fail.
- Working range up to 1km
- Beam aligned to laser body using proprietary means, with compensation on both directions of laser output to match the theodolite optical axis.
- Correction optics to compensate for internal optical parameters.
- Electronically isolated diode laser component
- Micro laser control circuit with Auto Power Control.
- Integral design to provide a unique product for alignment applications.
- Clip-on laser sun-shade to keep the laser cool outdoors.

Available with external battery power in either tough industrial or economical plastic battery module systems

The RLX-515 is a Class 2 alignment laser module supplied for the client to fit to their own theodolite. The laser provides a rotating vertical plane, with apertures facing forwards and reverse producing a +/- 6 degree laser fan. The laser is attached and aligned to the theodolite optical axis by the client.

Sensing is achieved using a handheld laser sensor, that provides the centre of the beam axis (and theodolite axis) to within a few mm across the range.



Sensor type may be selected from several options including potential for machine control sensors. Generally, the hand-held sensor will provide detection of the beam centre to within a few millimetres over the entire operating range up to 1km.

WORKS WITH MOST ROTATING RED LASER HANDHELD RECEIVERS. Works best with the ART Red/Green dual laser receiver system.

APPLICATIONS :

- Vineyard and fencing alignment
- Conveyor system alignment
- Site layout
- Single-person fencing, vineyards
- Roadwork layouts
- Pipe Laying
- Construction alignment
- Irrigation

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