

TRIA X™

PL100 Pipe Laser

- Bright laser beam, Class 3R**
- Rugged waterproof metal housing**
- Simple layout; easy to use**
- Rapid setup and beam alignment**
- Full charge; over 80 hours duty**
- Longlife built-in batterypack**
- Self-levelling with cross-axis compensation**





Robust and shock proof
30 min charge; 7 hours use
Simple layout; easy to use

PL100
Pipe Laser

Pipe laying - a tough application

The PL100 is engineered to withstand heavy wear during many years of hard use. The housing is manufactured in aluminium. Even the remote control is made out of metal, waterproof and rugged. The battery is completely enclosed to avoid problems with leakage and poor contact found with interchangeable battery packs, or inconvenience with external power cables.

Easy of use

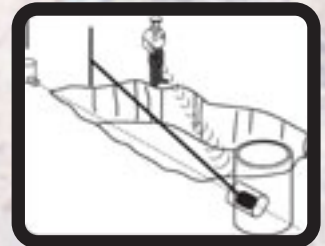
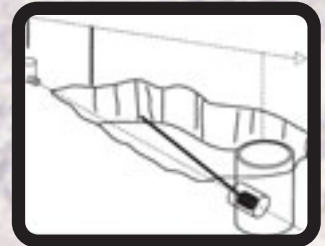
The PL100 is designed for easy operation. The laser beam is clearly visible over a range of up to 200 m. Push button symbols and commands are logical and easy to understand. Advanced functions that make operation easier for the experienced user, are hidden and will not distract the inexperienced user.

The display is large and legible and it is angled upwards to be easily read from above. It's back light can be operated from the remote control to make the display visible in poor light. The PL100 has a large battery capacity. A full 7 hour charge will give well over a working week's operation. In emergency cases, 30 minutes of charge will give you a full day's use. The PL100 can also be powered of an external battery.

The automatic plumb line beam travel enables you to side align the beam at any height. The beam will always travel vertically, even if the laser is placed with a large cross-axis tilt angle. You can place a stave on the edge of the trench in line with both manholes, elevate the beam with the remote control (up to 40% grade) and side align the beam onto the stave. Thereafter you let the beam go down to the working grade - the PL100 keeps the side alignment accurate.

Quick set-up

The PL100 is quick and simple to set up for a new job. The laser beam travels fast. It will rarely take more then 10 seconds from power on to full accuracy. This means fast set-up. The PL100 can be placed in the pipe with a large cross-axis tilt (+/- 3°). The grade is automatically compensated to full accuracy. This makes it easy to get the laser in place even in tricky positions.



Specifications

Laser Source	Laser Diode, Class 3R, 635 nm	Operating Temperature	-20°C to +40°C
Range	200 m	Sealing	Waterproof, sealed, purged with nitrogen
Beam Diameter at 100 m	14 mm	Power Source	Built-in NiCd with Power Management. Life more than 5 years under normal conditions
Accuracy	+/- 5 mm at 100 m	Battery Life, Full Charge	80 Hours Normal
Side Alignment Range	20 m at 100 m	Length	335 mm including rear handle
Levelling Range in Beam Direction	+/- 10°	Diameter	142 mm
Grade Range	-10% to +40%	Weight	4.5 kg
Cross Axis Tilt Range	+/- 3°	Remote Control Range	100 m under normal conditions, 40 m in bad conditions
Automatic Tilt Compensation	Compensated to full grade accuracy within cross axis tilt range	Remote Control Power Source	Batteries 2 x 3 6V lithium R6. Normal use gives > 1 years life
Vertical Beam Travel	Alignment error < 50 mm at 100 m over 10% grade travel within cross axis tilt range		

The TRIAX range of laser products are co-developed, marketed and supported by SOKKIA (EUROPE) B.V.

SOKKIA's line-up of surveying instruments includes everything from Global Positioning Systems (GPS), electronic total stations and distance meters, to electronic and optical theodolites, levels and laser products. Whether you're involved in construction, building a highway, bridge or tunnel, or charting a nationwide map, SOKKIA surveying instruments and systems always provide your best solution.

Innovative Lasers
Sokkia Expertise

SOKKIA (EUROPE) BV, Damsluisweg 1, 1332 EA Almere, The Netherlands - Phone: +31 (0)36 5322880, Fax: +31 (0)36 5326241

SOKKIA NV/SA, Doornveld Asse 3 Nr 11-B1, 1731 Zellik (Brussel), Belgium - Phone: +32 (0)2-4668230, Fax: +32 (0)2-4668300

SOKKIA SRL, Via Alserio 22, 20159 Milano, Italy - Phone: +39 02 66-803803, Fax: +39 02 66-803804

SOKKIA BV Niederlassung Deutschland, An der Wachsfabrik 25, 50966 Rodenkirchen (Köln), Germany - Phone: +49 (0)2236-392760, Fax: +49 (0)2236-62675

SOKKIA LTD, Datum House, Electra Way, Crewe Business Park, CW1 6ZT Cheshire Crewe, United Kingdom - Phone: +44 (0)1270-250511, Fax: +44 (0)1270-250533

SOKKIA SRO, Skroupovo namesti 1255/9, 130 00 Praha 3, Czech Republic - Phone: +042 (0)2 6273126, Fax: +042 (0)2 6273895