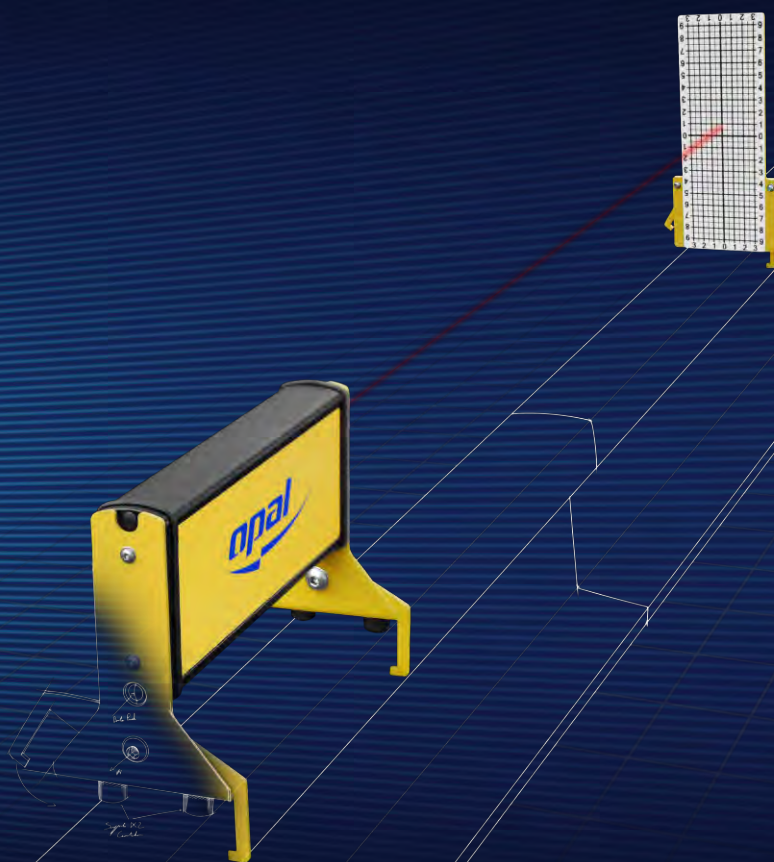


LINE AND LEVEL LASERBEAM MEASURING SYSTEM

OPAL MINI

*Advanced and accurate equipment
measuring horizontal and vertical versine*



Precise measurement with perfect horizontality

Lightweight and easy to set-up

Easy transportation



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OPAL MINI

Your benefits

- A very compact device for a modern method to measure track level and line to aid track measurement and hand tamping operations
- Steady and accurate multi-purpose fixation device (flat bottom rail, grooved rails, switch and crossing...)
- Robust, lightweight, the operator can fit the unit to the rail in seconds
- Easy to handle, stored in a dedicated protective case

Specifications

Target sizes	+/- 30 (H); +/- 90 mm (V)
	+/- 1.2 (H); +/- 3.5 in. (V)
	+/- 200 (H); +/- 90 mm (V)
	+/- 7.9 (H); +/- 3.5 in. (V)
Measurements	Horizontal and vertical versine (mid-chord offset)
Autonomy	100 hours
Operating temperature	-10 °C to +50°C (14 °F to 122 °F)
Laser Source Mass	2 kg (4 lbs)
Laser Target Mass	1 kg (2 lbs)

Technological advantages

- Powerful laser allowing a 30 m (98 ft) measurement
- Spirit level indicators mounted on both modules assist allow a perfect horizontal setting before work
- Measurement is independent from the inclination of the rail ensuring accurate values
- Long life rechargeable batteries supplied with battery charger
- Exists in two versions to accommodate every needs:
 - Standard: measures horizontal and vertical Versine
 - MSP: measures vertical Versine

Options

- PDA with multi-purpose software for computation of local values of track radius of curvatures
- Less powerful laser for night and tunnel operation
- Laser glasses at long distances
- Measuring tape
- Alternate target plates

