

**SOKKIA****SP1**  
Pipe Laser***SP1 Pipe Laser Boasts Outstanding Accuracy and Robustness***

## Precise Grade Settings

Grade setting is precisely controlled with advanced technologies originally developed for surveying instruments. The SP1 detects the grade of the laser beam using an absolute rotary encoder, which is far more accurate and reliable than other sensors. The grade can be set in 0.001% increments within a range of -15% to +40%.



SP1 Pipe Laser

# SP1

## Pipe Laser

### Advanced Functions Tailored for Easy Use

#### Robust and Watertight Body

The cast aluminum housing withstands harsh environments. The sealed body has undergone submerged tests at a depth of 5m (16.4ft.) for a minimum of 24 hours. Far exceeding the IPX7\* specification, the SP1 is completely waterproof and will survive an accidental submersion in water.

\* IPX7, as defined by IEC 60529 standards, is virtually the highest water protection grade for surveying instruments.

#### High-visibility Beam Spot

An exceptionally bright beam spot is generated by the high-intensity laser diode.

Fast blinking mode further improves spot visibility — ideal for sunlit conditions.

#### User-friendly Controls

The slanted control panel provides easy viewing and operation in any situation. The 200m (660ft.) range SPRC1 remote controller is equipped as standard.



#### Long-life, Swappable Battery

The standard rechargeable BDC65 battery pack supplies continuous power for approx. 48 hours.

The BDC64 D-cell battery pack is available as an option. The battery pack can be swapped without disturbing set-up.

#### Targets and Legs

Two target sizes are available. Legs with rubber bumpers ensure stability in all types of pipe.



#### Wide Variety of Optional Accessories

From power supplies to setting-up kits, a wide range of optional accessories is available.

Consult your local SOKKIA agent for details.

#### SP1 Specifications

Light source / Wavelength	Laser Diode / 633nm (RED laser)	
Laser class	CDRH (FDA): Class IIIa IEC: Class 3R	
Beam diameter	Dia.12mm (0.47")	
Grade range / Unit	-15 to +40% / 0.001% increments	
Line control	±15% range	
Beam grade detection	Absolute rotary encoder	
Horizontal accuracy	±10 arc seconds	
Self-leveling range	Beam axis: ±10% Cross axis: ±4°	
Water protection	At a depth of 5m (16.4ft.) for a minimum of 24 hours	
Operating temperature	-20 to +50°C (-4 to +122°F)	
Continuous use at 20°C (68°F)	With standard Ni-MH battery BDC65: Approx. 48 hours With four D (R20) size alkaline batteries*: Approx. 70 hours	
Size	w/o handle	Dia.122 x 330 mm (dia.4.8 x 13.0 in.)
	w/handle	Dia.125 x 374 mm (dia.4.92 x 14.72 in.)
Weight	Approx. 3.8 kg (8.4 lb.) (w/handle and battery BDC65)	

\* An optional battery pack BDC64 required.

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