

SOKKIA

LV1

Precision Laser Plummet

Unbeatable Plumbing Accuracy: $\pm 5''$

IEC60529
IPX4



High-precision plumb with twin visible laser beams (upward & downward)

Sokkia's LV1 offers the highest level of plumb precision in its class: $\pm 5''$ above and $\pm 1''$ below. Since laser beams are directed both up and down, it is easy to locate points vertically above and directly below a given reference point. Also, the small-diameter of the visible beam (7mm upward, 2mm downward) facilitates positioning.

Precision pendulum compensator for high reliability

Since the LV1 is not susceptible to changes in temperature, you can always be sure of making very accurate measurements. Moreover, a dual damping system (air and magnetic) is employed for the compensator, ensuring laser beam stability even on sites subject to frequent vibration.

Simple push-button operation

To use the LV1, you simply mount it, position it approximately on the horizontal using the three leveling screws, and the switch on. Once activated, the compensator automatically finds the vertical. If the unit is positioned outside the auto-leveling range, a warning LED blinks and both beams (up & down) flash.

Three power supply choices for long continuous operation

The LV1 can operate for up to 80 hours with just four alkaline batteries. A rechargeable battery pack offers 30 hours of continuous use. If you have access to an AC power supply (100V~240V), you can use the AC adapter. To save power, the LV1 switches off automatically 30 minutes after it is tilted outside the auto-leveling range.

Compact, lightweight design & proven water-resistance

The LV1 is an all-weather instrument: rain is no problem, thanks to IPX4 water-resistance* which assures protection against splashing from any direction. The unit is highly mobile and its compact, lightweight (2.5 kg / 5.5 lb) design makes it easy to carry.

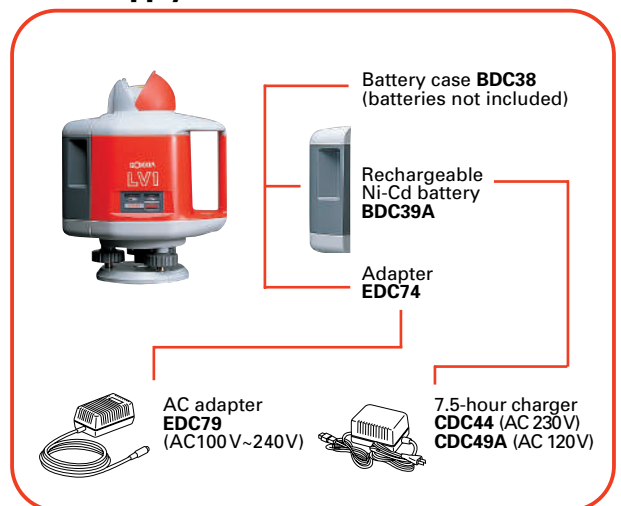
* Splash protection as defined by the IEC 60529 international standard.

Specifications

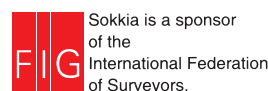
Light source	Laser diode	
Wavelength	635 nm	
Laser class	Class 2*	
Beam accuracy	Upward	$\pm 5''$
	Downward	$\pm 1''$
Measurement range	Upward	100 m / 328 ft
	Downward	5 m / 16.4 ft
Beam spot diameter (at emission)	Upward	7 mm / 9/32 in
	Downward	2 mm / 1/12 in
Compensator	Pendulum	
Damping system	Air damper + magnetic damper	
Self-leveling range	$\pm 10'$	
Operational indicators	Power on	Power LED on
	Outside self-leveling range	Warning LED blinks and beams flash
	Low voltage	Power LED blinks
Auto power-off	Laser beams shut off approx. 10 mins after self-leveling range is exceeded; unit powers down approx. 30 mins after warning.	
Circular level sensitivity	10' / 2 mm	
Base screw size	5/8-in	
Water-resistance	IEC 60529 Class IPX4 (splash protection)	
Operating temperature	-10° to 50°C / 14° to 122°F	
Dimensions	W194 x D150 x H248 mm / W7.6 x D5.9 x H9.8 in	
Weight	2.5 kg / 5.5 lb (with batteries)	
Power consumption	Less than 0.8 W	
Power supply	BDC38 battery case (holds 4 R20/D dry-cell batteries)	80 hrs continuous use at 20°C / 68°F with alkaline; 50 hrs with manganese
	BDC39A rechargeable Ni-Cd battery	30 hrs continuous use at 20°C / 68°F; charges in approx. 7.5 hrs (using CDC44/CDC49A charger)
	EDC79 AC adapter (for AC 100V~240V)	

* IEC 60825-1Amd.2:2001 / FDA CDRH 21 CFR Part1040.10 and 1040.11 (Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No.50, dated July 26, 2001.)

Power supply (3 choices)



Designs & specifications are subject to change without notice.



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