

**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.

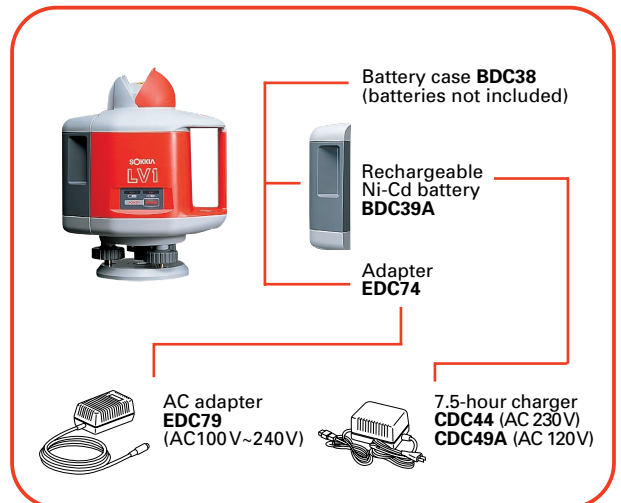
\* Splash protection as defined by the IEC 60529 international standard.

## 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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SOKKIA CO.,LTD.

ISO9001 Certified (JQA-0557)  
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