

SURVEYING INSTRUMENTS

SOKKIA

B1C·B1

AUTOMATIC LEVEL

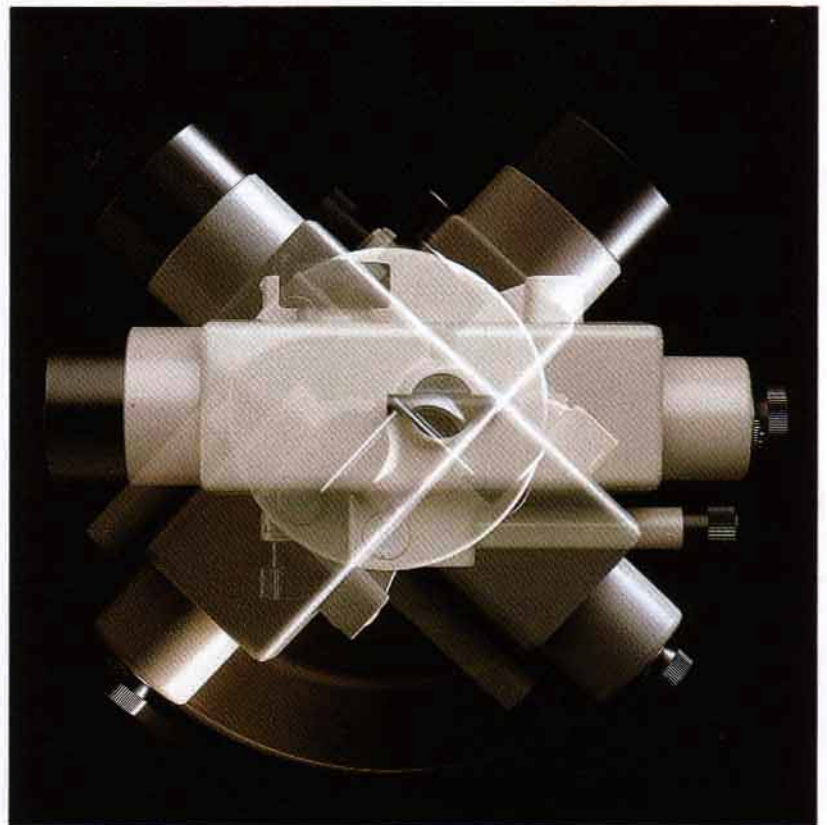
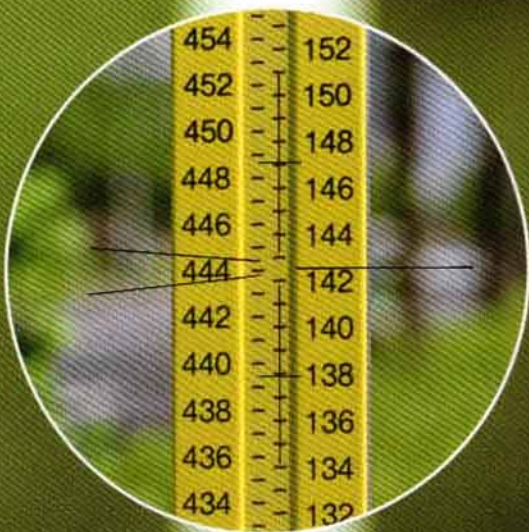
**32x Telescope Magnification
0.8mm Standard Deviation for 1km Double-run Levelling**



The Top of the Line in Automatic Levels — U Precise, Rugged, and

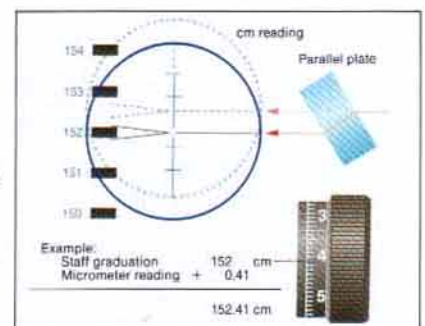
This model is simply Sokkia's best ever. It represents the state of the art in levelling technology, and comes in a compact, sturdy, and easier-to-use package. Extremely precise levelling has never been simpler.

Accuracy over 1km double-run levelling is a remarkable 0.8mm, and it can be improved to 0.5mm using the optional parallel plate micrometer. Horizontal line of sight stability is assured by four suspension wires and a magnetic-damping compensator. Operation is convenient, thanks to features such as the two-speed focussing knob, distance-giving stadia lines, and even the choice of horizontal circles (on the B1C). In short, this model offers the best of Sokkia's famous technology in one neat, rugged body.

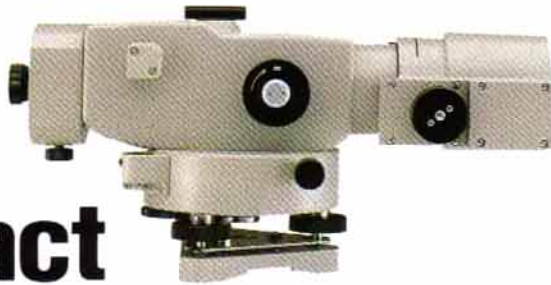


Accurate Levelling

The level's reticle can be fitted with the optional parallel plate micrometer for precise measurement in increments of 0.1mm (estimation 0.01mm). The accuracy obtained over 1km double-run levelling is boosted from 0.8mm to a remarkable 0.5mm with the parallel plate micrometer.



Ultra Compact



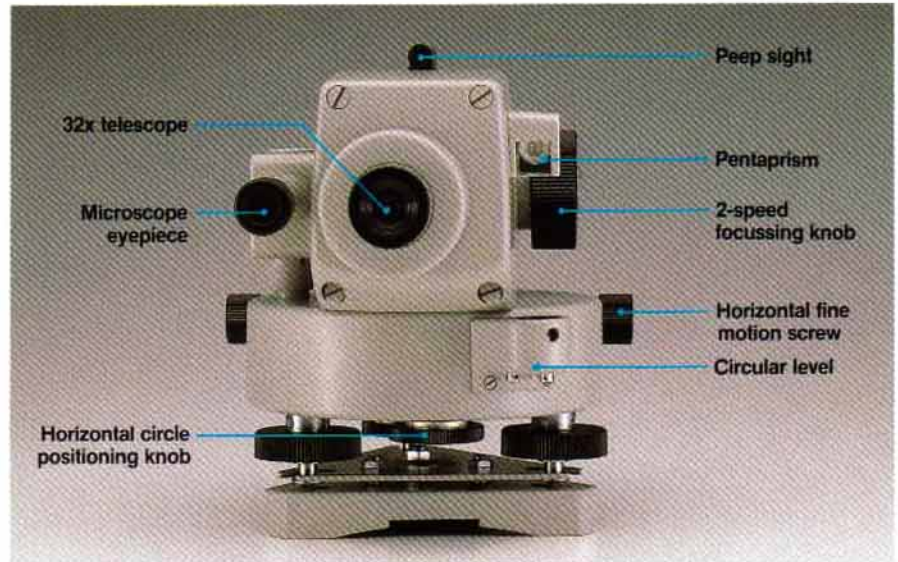
B1C • B1

AUTOMATIC LEVEL



Rapid, Easy Set-Up

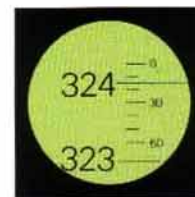
Using a spherical-head tripod, setting up the level is fast and easy even on angled, uneven surfaces. Set the level onto the tripod head, centre the circular bubble, and away you go. It also fits flat-head tripods.



aiming, operable by right or left hand. Simply turn the instrument, then use the fine motion to aim the level at the target precisely. A two-speed focussing knob switches between coarse and fine focussing for even faster operation. The optics are designed to be bright and easy to use.

Choice of Horizontal Circles for the B1C

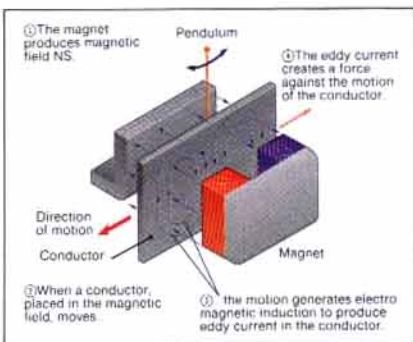
The B1C offers a choice of easy-to-use horizontal circles for laying off and measuring angles (direct reading to 10' or 0.1 gon).



(360°) 324° 15'



(400 g) 385.45 g

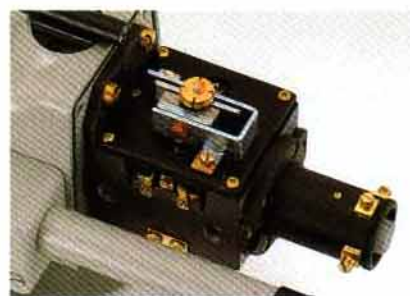


Reliable Automatic Compensator

Four suspension wires and magnetic damping action ensure stability, even under rapidly changing atmospheric conditions, vibration, and shock. Precise damping even copes with "hang-ups" in the compensator.

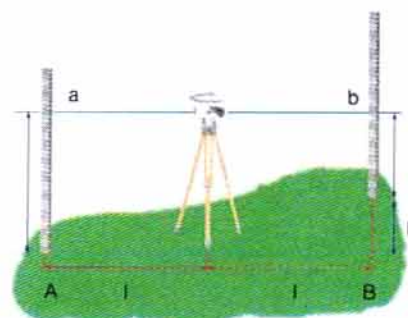
Precise Collimation

This model incorporates an endless horizontal motion drive with two knobs for fast and easy



Stadia

The stadia wires on the reticle allow easy calculations of distance. Simply multiply the distance on the rod between the top and bottom stadia lines by 100.



B1C-B1 Specifications

Telescope	
Length	270mm (10.6in)
Objective aperture	45mm (1.8in)
Magnification	32x
Image	Erect
Resolving power	3"
Field of view (at 100m)	1°20' (2.3m)
Minimum focussing distance	2.3m (7.5ft)
Reticle	Wedge shape
Stadia multiplication constant	100
Stadia additive constant (cm)	0
Reticle illumination	by LA4 (option)
Two-speed focus	Standard
Compensator, Auto Level Mechanism	
Damping system	Magnetic
Working range	±10'
Setting accuracy	0.3"
Parallel Plate Micrometer	
Device	OM1 (Metric, option) OM1F (Imperial, option)
Range	10mm (0.01ft)
Division	0.1mm (0.001ft)
Estimation	0.01mm (0.0001ft)
Levelling Accuracy	
Standard Deviation for 1km Double-run Levelling	
Without micrometer	0.8mm (0.03in)
With micrometer	0.5mm (0.02in)
General	
Sensitivity of circular level	10'/2mm
Mirror for circular level	Pentaprism
Horizontal fine motion	Double-sided endless drive
Size (W×D×H)	144 × 270 × 163mm (5.7 × 10.6 × 6.4in)
Weight B1C (instrument)	3.2kg (7.1lbs)
B1 (instrument)	3.0kg (6.6lbs)
Base	Concave and flat
Base screw	ϕ5/8"
B1C Horizontal Circle	
Graduation	1° 1gon
Diameter	92mm 92mm
Direct scale reading	10' 0.1gon

Specifications are subject to change without notice.

Options

LA4 Reticle Illumination Unit

Illumination unit makes it possible to keep working under low-light conditions. A light-emitting diode illuminates the cross hairs.

OM1 Parallel Plate Micrometer

For precise measurement. Available in metric or imperial models.



Standard Equipment

Instrument, lens cap, plumb bob (B1C), vinyl cover, tool kit, operation manual, and carrying case.

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