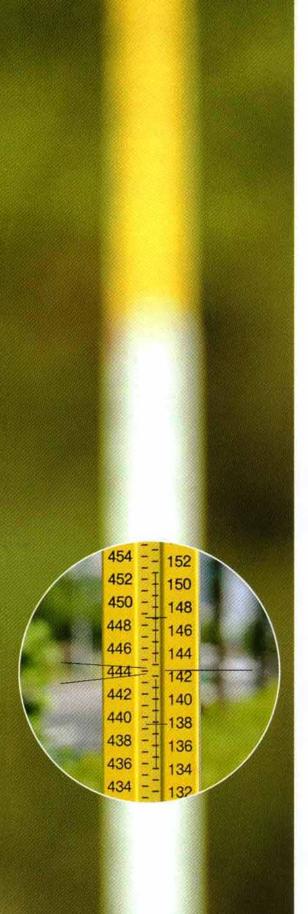
SOKKIA

### **B2**1 **AUTOMATIC LEVEL**

30x Telescope Magnification 1.5mm Standard Deviation for 1km Double-run Levelling

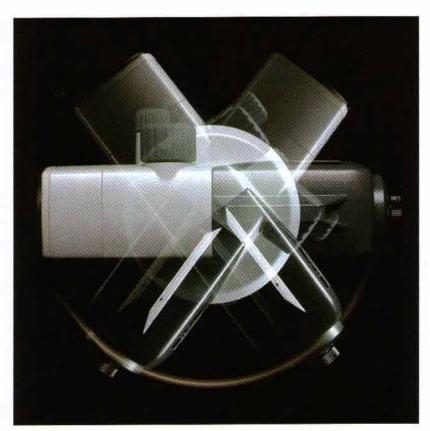




## A New Level of Accur Compactness, Reliabi and Ruggedness

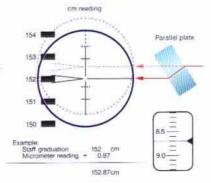
The automatic level from Sokkia offers the best of our famed levelling technology in a more compact, easy-to-use design. Tougher, smaller, and more tightly sealed against humidity and dust — for superior performance whatever the conditions. Better yet, this latest model is just as quick and easy to set up, simple to sight, and immune to vibration, shock, and other environmental conditions.

Fully resistant to rain and accidental dousings, it won't fog even with sudden temperature changes — leaving you free to concentrate on the work. This model meets JIS grade 4 specification for waterproofing. (This complies with International Electrotechnical Commission Standard, Class IPX4.)



#### **Precise Levelling**

The reticle can be fitted with the optional parallel plate micrometer for precise measurement in increments of 0.1mm (estimation 0.01mm).



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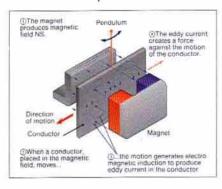


# B21



#### 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.

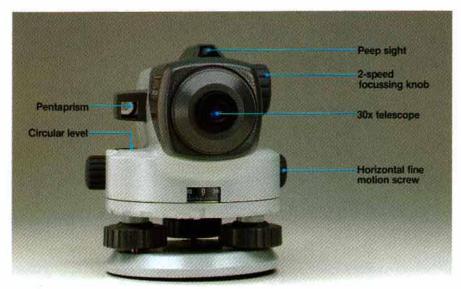


#### Reliable Automatic Compensator

Four suspension wires and magnetic damping action ensure stability, even under rapidly changing atmospheric conditions, vibration, and shock. Extended compensator range of  $\pm 15$  minutes.

#### **Precise Collimation**

This model incorporates an endless horizontal motion drive with two knobs for fast and easy aiming, operable with the right or



left hand. Simply turn the instrument, then use the fine motion to precisely aim the level at the target. Two-speed focus knob switches between coarse and fine focussing for even faster operation. The 30x telescope's optics are bright and clear. The 30cm (1ft) minimum focus distance (from the centre of the instrument) makes it easy to use in confined locations.

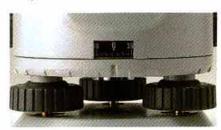


#### Stadia

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.

#### Convenient Horizontal Angle Measurement

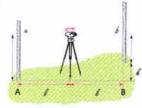
This model is equipped with an easy-to-use horizontal circle for



laying off and measuring angles (direct reading to 1° or 1gon). The readout window is conveniently located on the instrument base—directly below the eyepiece.

#### Easy to Adjust

Reticle adjustment is made with one screw. Circular level vial is adjusted with two screws. Both adjustments are simple and fast with provided tools.



#### **B21 Specifications**

Telescope	
Length	215mm (8.5in)
Objective aperture	42mm (1.7in)
Magnification	30x
Image	Erect
Resolving power	3"
Field of view (at 100m).	1°20' (2.3m)
Minimum focussing distance	0.3m (1.0ft)
Reticle	Wedge shape
Stadia multiplication constant	100
Stadia additive constant (cm)	0
Reticle illumination	by LA8 (optional)
Two-speed focus	Standard
Sunshade	Standard
Compensator, Automatic Level M	echanism
Damping system	Magnetic
Working range	±15'
Setting accuracy	0.5"
Parallel Plate Micrometer	
Device	OM5 (Metric, optional) OM5F (Imperial, optional)
Range	10mm (0.01ft)
Division	0.1mm (0.001ft)
Estimation	0.01mm (0.0001ft)
Levelling Accuracy	
Standard deviation for 1km (1mile	e) double-run levelling
Without micrometer	1.5mm (0.006ft)
With micrometer	1.2mm (0.005ft)
Horizontal Circle	Aluminium, clockwise
Diameter	103mm (4.1in)
Graduation	1° (1gon)
Estimation	0.1° (0.1gon)
Water Resistance	

This model meets Japanese Industrial Standard, Class IPX4 (JISC0920). This complies with International Electrotechnical Commission Standard, Class IPX4 (IEC529).

General	
Sensitivity of circular level	10'/2mm
Mirror for circular level	Pentaprism
Horizontal fine motion	Double-sided endless drive
Size (W×D×H)	130 × 215 × 135mm (5.1 × 8.5 × 5.3in)
Weight (instrument)	1.85kg (4.1lbs)
(case)	2.0kg (4.4lbs)
Base	Concave and flat
Base screw	φ5/8"

Specifications are subject to change without notice.

#### **Options**

#### **DE22 Diagonal Eyepiece**

A diagonal eyepiece facilitates work in tight spots with little space behind the instrument.

#### **LA8 Reticle Illumination Unit**

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

#### **OM5 Parallel Plate Micrometer**

For precise measurement. Available in metric or imperial models.





DE22



LA8

#### **Standard Equipment**

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

#### SOKKIA CO.,LTD.

ISO9001 Certified (JQA-0557) http://www.sokkia.co.jp/english/

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