SOKKIΛ



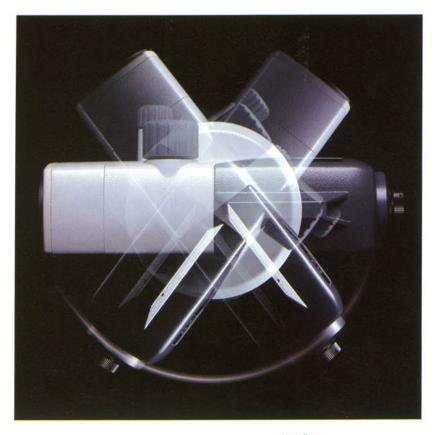




A Precision Level for Ev Accurate, Sturdy, Compact and Weatherp

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

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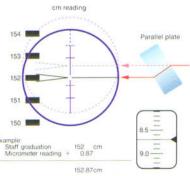
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The reticle can be fitted with the optional parallel plate micrometer for precise measurement in increments of 0.1mm (estimation 0.01mm).



very Use -

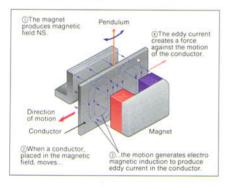
broo

B20 · B21 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.



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 ± 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 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.

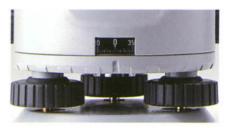


Stadia

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

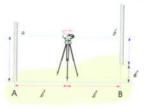
This model is equipped with an easy-to-use horizontal circle for



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.



B20 · B21 Specifications

	B20	B21	
Telescope	020	DZI	
Length	215 mm (8.5 in))	
Objective aperture		42 mm (1.7 in)	
Magnification	, ,	32x 30x	
Image	-	Erect	
Resolving power		3"	
Field of view (at 100m)	-	1°20' (2.3 m)	
Minimum focussing distance	· /	0.3 m (1.0 ft)	
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			
Damping system		Magnetic	
Working range	±15'		
Setting accuracy	0.3"	0.3"	
Parallel Plate Micrometer			
Device	OM5 (Metric, or	OM5 (Metric, optional)	
	OM5F (Imperial, optional)		
Range		10 mm (0.01 ft)	
Division	. ,	0.1 mm (0.001 ft)	
Estimation	0.01 mm (0.0001 ft)		
Levelling Accuracy	× .	•	
Standard deviation for 1km double-	run levelling		
Without micrometer	1.0 mm (0.04 ir	n) 1.5 mm (0.06 in)	
With micrometer	0.8 mm (0.03 ir		
Horizontal Circle	Aluminium, cloo	Aluminium, clockwise	
Diameter		103 mm (4.1 in)	
Graduation	1°(1 gon)	· · · ·	
Estimation	0.1° (0.1 gon)		
Water Resistance	/		
This model meets Japanese Indust	rial Standard, Class II	PX4	
(JIS C 0920). This complies with Int	ernational Electrotech	nnical	
Commission Standard, Class IPX4	(IEC 60529).		
General			
Sensitivity of circular level	10'/2 mm	10'/2 mm	
Mirror for circular level	Pentaprism	Pentaprism	
Horizontal fine motion	Double-sided e	Double-sided endless drive	
Size (W x D x H)	130 x 215 x 135 mm		
	(5.1 x 8.5 x 5.3 in)		
Weight (instrument)	1.85 kg (4.1 lbs	1.85 kg (4.1 lbs)	
(case)	2.0 kg (4.4 lbs)		
<u> </u>	<u> </u>	Orana and flat	

Concave and flat

ø5/8'

Base screw

Base

Specifications are subject to change without notice

Options

Diagonal Eyepieces: DE16 (for B20), DE22 (for B21) A diagonal eyepiece facilitates work in tight spots with little space behind the instrument.

LA8 Reticle Illumination Unit (B20, B21)

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

OM5 Parallel Plate Micrometer (B20, B21)

For precise measurement. Available in metric or imperial models.

ACE1 Auto-Collimation Eyepiece (B20)

The ACE1, designed specifically for installation and measurement of industrial machinery, produces a horizontal centre line using an AC power source.

EL5 40x Removable Eyepiece (B20)

Increases the standard 32x image to 40x.



DE16



OM5

ACE1











Standard Equipment

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



Sokkia is a sponsor of the International Federation of Surveyors

SOKKIA CO., LTD.

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