SOKKIA

B2o·B30A·B40A

AUTO LEVEL

Durable, Dependable, High Value Auto Levels

- 3 Models - 32x, 28x, and 24x Magnifications
- Rapid, Accurate, and Stable Automatic Compensation
- Ultra-Short 20cm (7.9 in.) Focusing
- All-Weather Dependability
- Clampless, Endless Fine Horizontal Adjustments

B2o

High-precision model

Magnification	Objective Aperture	Accuracy
32x	42mm	0.7mm

Minimum Focus	Protection	Weight
20cm	IPX6	1.85kg

B30A

Versatile model for surveying, engineering and construction

Magnification	Objective Aperture	Accuracy
28x	36mm	1.5mm

Minimum Focus	Protection	Weight
20cm	IPX6	1.5kg

B40A

Economical model for engineering and construction

Magnification	Objective Aperture	Accuracy
24x	32mm	2.0mm

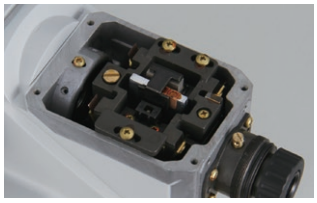
Minimum Focus	Protection	Weight
20cm	IPX6	1.5kg

B20・B30A・B40A

SPECIFICATIONS

Rapid, Stable, and Durable Compensator

The compensator of B20/B30A/B40A incorporates four suspension wires made of super-high-tensile metal that features minimal thermal expansion coefficient, providing unmatched durability and accuracy. Finely tuned magnetic damping system quickly levels and stabilizes the line of sight despite the fine vibrations present when working near heavy equipment or busy roadways.



20cm (7.9 in.) - Ultra-Short Minimum Focus

B20/B30A/B40A can focus on objects at 20cm (7.9 in.) in front of the telescope. This feature dramatically facilitates the works in confined spaces.

Horizontal Circle for Angle Measurement

Horizontal angles can be directly read in 1° or 1gon units. Free rotation feature allows you to read any angle from zero.

All-Weather Dependability

With the IPX6 rating, the instrument is protected against powerful water jets from all directions, meaning B20/B30A/B40A withstands a sudden shower or torrential rainfall.
The advanced protection design also deters clouding or condensation inside the telescope.

		B20	B30A	B40A
Telescope				
Length		215mm (8.46in.)	214mm (8.42in.)	
Magnification		32x	28x	24x
Objective Aperture		42mm (1.65 in.)	36mm (1.42 in.)	32mm (1.26 in.)
Resolving Power		3"	3.5″	4″
Field of View (at 100m/328ft.)		1°20' (2.3m / 7.5ft.)	1°25′ (2.5m / 8.2ft.)	
Minimum Focus		0.2m (7.9 in.) from end of telescope 0.3m (1ft.) from instrument center		
Image		Erect		
Stadia Constant		0		
Stadia Ratio		100		
Focusing Knob		2-speed	1-speed	
Sighting Aid		Peep Sight		Gun Sight
Accuracy (1km double run leveling)				
Without Micrometer		0.7mm (0.03 in.)	1.5mm (0.06 in.)	2.0mm (0.08 in.)
With Micrometer		0.5mm (0.02 in.)	n/a	
Compensator				
Type		Pendulum compensator with magnetic damping system		
Setting Accuracy		0.3″	0.5"	
Working Range		±15'		
Circular Level				
Sensitivity		10' / 2mm		
Horizontal Circle				
Diameter		103mm (4.1in.)	99mm (3.9in.)	
Minimum Division		1°/ 1gon		
General				
Water Resistance		IPX6 (IEC 60529:2001)		
Operating Temperature		-20 to +50°C (-4 to +122°F)		
Size	Width	130mm (5.12in.)	122mm (4.8in.)	
	Length	215mm (8.46in.)	214mm (8.4in.)	
	Height	140mm (5.51in.)		
Weight		1.85kg (4.1lbs.)	1.5kg (3.3lbs.)	

Standard Package/ Optional Accessories

- Main unit
- Hex wrench
- Adjusting pins
- Vinyl cover
- Plumb bob
- Cleaning cloth
- Lens cap
- User manual
- Hard carrying case

40x Eyepiece EL5 (B20)

Optical Micrometer OM5 (B20)

SOKKIA QUALITY
Ultimate Environmental Performance and Durability

SOKKIA has been performing environmental tests against a set of expected job site conditions to certify the products for the long term use. The B Series has been tested by the special inspection equipment for complete waterproofness. The B Series also has the highest environmental performance and durability in SOKKIA's Auto Level history, proven by tests against temperature, humidity, vibration and drop.

Water Proof Test (IPX6)
The B Series is proven to withstand powerful water jets from all directions without any submergence inside the unit

Cold and Heat Resistance Test
The B Series has passed operating temperature tests from – 20°C to + 50°C degree.

Durability Test
The B Series has passed strict durability tests including rotation of leveling foot screw, Focusing knob and Horizontal fine motor screw.

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