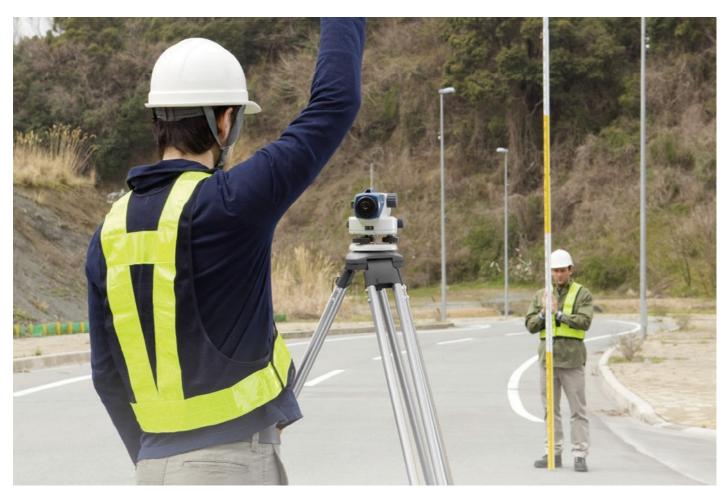


# B20·B30A·B40A

**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

**B20**High-precision model

Magnificatio

32x

Minimum Focus

20cm



Accuracy 0.7mm

Protection IPX6

42<sub>mm</sub>

Weight 1.85kg **B30A**Versatile model for surveying, engineering and construction

28x

20cm



Objective Aperture 36mm

Protection IPX6

Accuracy 1.5mm

1.5kg

**B40**A

Economical model for engineering and construction



Magnification 24x

Objective Aperture 32mm

Accuracy 2.0mm

Minimum Focus

Protection IPX6

Weight 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.

		B2 <sub>0</sub>	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		0.2 m (7.9 in.) from end of telescope		
		0.3 m (1ft.) from instrument center		
Image		Erect		
Stadia Constant		0		
Stadia Ratio		100		
Focusing Knob		2-speed	1-sr	peed
Sighting Aid		Peep	Sight	Gun Sight
Accuracy (1km		un 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				
Гуре		Pendulum compensator with magnetic damping system		
Setting Accuracy		0.3"	0.5"	
Working Range		±15'		
Circular Level		101/2		
Sensitivity		10' / 2mm		
Horizontal Circle	e			/a a: \
Diameter		103mm (4.1in.)	99mm (3.9in.)	
Minimum Division		1°/ 1gon		
General		Т т	DVC (IEC COE20, 2001	,
Water Resistance		IPX6 (IEC 60529:2001)		
Operating Temperature Size Width		-20 to +50°C (-4 to +122°F) 130mm (5.12in.) 122mm (4.8in.)		
_		130mm (5.12in.)		
_	Length	215mm (8.46in.)	214mm (8.4in.)	
Height		140mm (5.51in.) 1.85kg (4.1lbs.) 1.5kg (3.3lbs.)		
Weight		1.85kg (4.1lbs.)	1.5Kg (	ว.วเมริ.)

## Standard Package/ Optional Accessories





- Cleaning cloth
- Hex wrench
- Lens cap
- Adjusting pinsVinyl cover (B20/B30A)
- User manualHard carrying case
- Plumb bob (B20/B30A)



Diagonal Eyepiece DE16 (B20)



Optical Micrometer OM5 (B20)



40x Eyepiece EL5 (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.



#### TOPCON CORPORATION

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