

**SOKKIA**

# **B-Series**

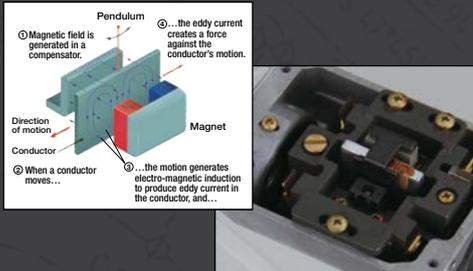
**Automatic Levels**



- **Enhanced reliability under all environmental conditions**
- **Tough and compact bodies sealed against water, humidity and dust**
- **Quick setup, easy sighting and superior durability against shock and vibration**
- **Stadia lines on the reticle allow distance measurements**

## Precise, Reliable Automatic Compensator

The B-series levels incorporate the most precise and reliable compensator available in the market today. The technological superiority of the Sokkia automatic levels has been proven since the release of the best-selling B2 model in 1963. Four super-high-tensile suspension wires and magnetic damping system ensure accuracy and stability even when exposed to temperature changes, vibrations, or shock.



## Superior Telescope

Optimally designed telescope provides exceptionally bright and sharp view that reduces operator's eye strain. Ultra-short focus distance of 20 cm from end of telescope\* makes it easy to use in confined locations. Two-speed focus knob switches between coarse and fine for even faster operation (B20).

\*30 cm from instrument center

## Quick Collimation

Two knobs of endless horizontal motion drives can be operated with either hand for fast and easy aiming.

## Horizontal Angle Measurement

Horizontal angles can be read in 1° or 1gon units. Freely rotatable circle allows any angle reading from zero. Right angles can be quickly set for layout and alignment tasks. The readout window is conveniently located on the instrument base – directly below the eyepiece.



# SOKKIA

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# B-Series

AUTOMATIC LEVELS

## SPECIFICATIONS

Model	B20	B30A	B40A
<b>Telescope</b>			
Length	215 mm	214 mm	214 mm
Magnification	32x	28x	24x
Objective aperture	42 mm	36 mm	32 mm
Resolving power	3"	3.5"	4"
Field of View (at 100 m)	1°20' (2.3 m)	1°25' (2.5 m)	
Minimum focus	0.2 m from end of telescope / 0.3 m from instrument center		
Image	Erect		
Reticle pattern	Wedge	Cross line	
Stadia constant	0		
Stadia ratio	100		
Focusing knob	2-speed	1-speed	
Sighting aid	Peep sight	Gun sight	
Lens hood	Retractable	-	
<b>Accuracy (standard deviation for 1 km double run leveling)</b>			
Without micrometer	0.7 mm	1.5 mm	2.0 mm
With micrometer	0.5 mm	-	
<b>Compensator</b>			
Type	Pendulum compensator with magnetic damping system		
Setting accuracy	0.3"	0.5"	
Working range	±15'		
<b>Circular level</b>			
Sensitivity	10' / 2 mm		
Mirror	Pentaprism	Plane mirror	
<b>Horizontal circle</b>			
Diameter	103 mm		
Graduations	1° / 1gon		
<b>General</b>			
Horizontal motion drive	Clampless, endless, double-sided knobs		
Water resistance	IPX6 (IEC 60529:2001)		
Operating temperature	-20 to 50°C		
Size	Width	130 mm	
	Length	215 mm	214 mm
	Height	140 mm	135 mm
Weight	1.85 kg	1.5 kg	1.5 kg

## Rapid, Easy Setup

A domed-head tripod makes setting up faster and easier even on inclined and uneven ground. The B-series levels also fit flat-head tripods. The circular level can be seen on a pentaprism or plane mirror located beside the telescope eyepiece.



## Standard Configuration

- Instrument
- Lens cap
- Plumb bob (B20 only)
- Vinyl cover
- Cleaning cloth
- Tool kit
- Operator's manual
- Carry case



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