

# 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
- Clamless, Endless Fine Horizontal Adjustments

#### B2o

High-precision model



Magnification

**32x**

Objective Aperture

**42mm**

Accuracy

**0.7mm**

Minimum Focus

**20cm**

Protection

**IPX6**

Weight

**1.85kg**

#### B30A

Versatile model for surveying,  
engineering and construction



Magnification

**28x**

Objective Aperture

**36mm**

Accuracy

**1.5mm**

Minimum Focus

**20cm**

Protection

**IPX6**

Weight

**1.5kg**

#### B40A

Economical model for  
engineering and construction



Magnification

**24x**

Objective Aperture

**32mm**

Accuracy

**2.0mm**

Minimum Focus

**20cm**

Protection

**IPX6**

Weight

**1.5kg**

### 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.

|                                    | B2o  | 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<br>(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<br>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.)   | 1.5ka (3.3lbs.)       |                  |

### Standard Package/ Optional Accessories



- Main unit
- Hex wrench
- Adjusting pins
- Vinyl cover (B20/B30A)
- Plumb bob (B20/B30A)
- Cleaning cloth
- Lens cap
- User manual
- Hard carrying case



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.



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