

# Nikon AS-2/AE-7 Series Automatic Levels

## Specifications Sheet

**SIMPLE • ACCURATE • VALUE**

### TELESCOPE

Tube length	AS-2/2C: 10.2 in (259 mm) AE-7/7C: 8.7 in (220 mm)
Image	erect
Effective aperture of objective	AS-2/2C: 1.77 in (45 mm) AE-7/7C: 1.57 in (40 mm)
Magnification	AS-2/2C: 34x AE-7/7C: 30x
Resolution power	AS-2/2C: 2.5" AE-7/7C: 3"
Field of view	AS-2/2C: 1°20' (2.3 ft @ 100 ft) AE-7/7C: 1°30' (2.6 ft @ 100 ft)
Minimum focusing distance	AS-2/2C: 3.28 ft (1.0 m) AE-7/7C: 0.98 ft (0.3 m)
Stadia ratio	1:100
Stadia additive constant	.0

### LEVEL VIAL SENSITIVITY

Circular level	10 <sup>1</sup> / <sub>2</sub> mm
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### STANDARD DEVIATION in 1-km double-run leveling

Without micrometer	AS-2/2C: ±0.8 mm AE-7/7C: ±1.0 mm
With micrometer	AS-2/2C: ±0.4 mm AE-7/7C: ±0.45 mm

### AUTOMATIC COMPENSATOR

Type	wire-hung, air damper
Compensation range	AS-2/2C: ±12' AE-7/7C: ±16'
Setting accuracy	AS-2/2C: ±0.3" AE-7/7C: ±0.35"

### HORIZONTAL CIRCLE (AS-2C/AE-7C only)

Diameter of circle	AS-2/2C: 3.2 in (80 mm) AE-7/7C: 4.6 in (118 mm)
Minimum increment	1°/1 g
Scale reading (direct)	AS-2/2C: 10 <sup>1</sup> / <sub>10</sub> cg AE-7/7C: 1°/1 g
Reading by estimation	AS-2/2C: 1 <sup>1</sup> / <sub>1</sub> cg AE-7/7C: 0.1°/0.1 g

- ±(3+3 ppm × D) mm -20 °C to -10 °C, +40 °C to +50 °C (-4 °F to +14 °F, +104 °F to +122 °F)
- Standard deviation based on ISO 17123-4.
- Measuring time may vary depending on measuring distance and conditions.
- Battery life specification at 25 °C (77 °F).

Specifications are subject to change without prior notice.

This product is only available in selected markets.



### DIMENSIONS

Instrument (L x W x H)	AS-2/2C: 10.2 x 5.4 x 5.6 in (259 x 136 x 142 mm) AE-7/7C: 8.7 x 5.4 x 5.6 in (220 x 136 x 142 mm)
Carrying case (L x W x H)	AS-2/2C: 14.9 x 7.7 x 7.8 in (379 x 195 x 197 mm) AE-7/7C: 14.9 x 7.7 x 7.8 in (379 x 195 x 197 mm)

### WEIGHT

Instrument	AS-2: 4.0 lb (1.8 kg) AS-2C: 4.2 lb (1.9 kg) AE-7/7C: 3.7 lb (1.7 kg)
Carrying case	AS-2: 4.0 lb (1.8 kg) AS-2C: 4.2 lb (1.9 kg) AE-7: 4.0 lb (1.8 kg) AE-7C: 4.2 lb (1.9 kg)



**NORTH AMERICA**  
10368 Westmoor Drive  
Westminster, CO 80021  
USA  
888-477-7516 (Toll Free)  
1-720-587-4700 Phone

**EUROPE, MIDDLE EAST  
& AFRICA**  
Spectra Precision Division  
Rue Thomas Edison  
ZAC de la Fleuriaye, CS 60433  
44474 Carquefou (Nantes)  
FRANCE  
+33 (0)2 28 09 38 00 Phone

**ASIA-PACIFIC**  
Spectra Precision Division  
80 Marine Parade Road  
#22-06, Parkway Parade  
Singapore 449269  
SINGAPORE  
+65-6348-2212 Phone



www.spectraprecision.com

For sales information and dealer locator:  
sales@nikonpositioning.com



Vectors Colorado - (303) 283-0343  
10670 East Bethany Drive, Building 4  
Aurora, CO 80014

Vectors New Mexico - (505) 821-0343  
5640 Venice Avenue, Unit J  
Albuquerque, NM 87113

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