

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 ¹ / ₂ mm |
|----------------|-----------------------------------|

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°/10 cg AE-7/7C: 1°/1 g |
| Reading by estimation | AS-2/2C: 1°/1 cg AE-7/7C: 0.1°/0.1 g |

1 ±(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)

2 Standard deviation based on ISO 17123-4.

3 Measuring time may vary depending on measuring distance and conditions.

4 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

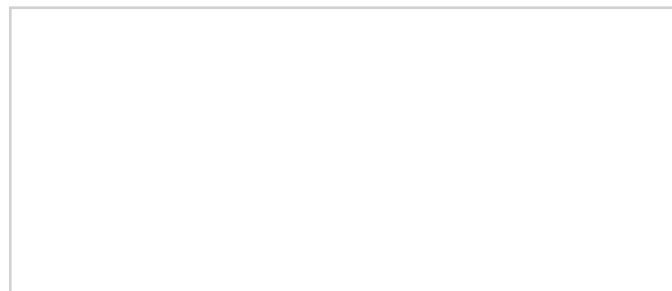
**EUROPE, MIDDLE EAST
& AFRICA**
Spectra Precision Division
Rue Thomas Edison
ZAC de la Fleuriaye, CS 60433
44474 Carquefou (Nantes)
FRANCE
+33 (0)2 28 09 38 00 Phone

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



NIKON AUTHORIZED DISTRIBUTION PARTNER

TRIMBLE IS DISTRIBUTING NIKON AUTO-LEVELS, THEODOLITES AND TOTAL STATIONS FOR SURVEYING AND CONSTRUCTION APPLICATIONS AS PART OF A JOINT VENTURE AGREEMENT WITH NIKON CORPORATION.

© 2014, Trimble Navigation Limited. All rights reserved. Trimble is a trademark of Trimble Navigation Limited registered in the United States and in other countries. Nikon is a registered trademark of Nikon. All other trademarks are the property of their respective owners. PN 022505-106 (01/14)