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

# **Specifications Sheet**

# **SIMPLE • ACCURATE • VALUE**

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Tube length	AS-2/2C: 10.2 in (259 mm) AE-7/7C: 8.7 in (220 mm)
Image	,
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	
Stadia additive constant	0

# **LEVEL VIAL SENSITIVITY**

Circular level10'/2 m	Circular ie
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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
	ΔF-7/7C: +0.45 mm

### **AUTOMATIC COMPENSATOR**

Type	
Compensation range	
	AE-7/7C: ±16'
Setting accuracy	
	AE-7/7C: ±0.35"

HURIZUNIAL 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 a



## **DIMENSIONS**

Instrument (L x W x H)	. AS-2/2C: 10.2 x 5	.4 x 5.6 in	(259 x 1	36 x 142 mm)
	AE-7/7C: 8.7 x 5	.4 x 5.6 in	(220 x 1	36 x 142 mm)
Carrying case (L x W x H)	. AS-2/2C: 14.9 x 7	.7 x 7.8 in	(379 x 1	95 x 197 mm)
	ΔF-7/7C· 14 9 x 7	7 x 7 8 in	(379 x 1	95 x 197 mm)

### WFIGHT

- 1  $\pm$ (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.
- 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.



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