

Nikon Auto Level

Brought to you by Lasco, Inc. 800-722-9704

	AS-2C	AS-2	AE-7C	AE-7	AP-8	AC-2S	AX-2S
TELESCOPE							
Tube length:	10.2 in (259	10.2 in (259	8.7 in (220 mm)	8.7 in (220 mm)	7.5 in (190 mm)	7.5 in (190 mm)	7.5 in (190 mm)
Image:	erect	erect	erect	erect	erect	erect	erect
Effective diameter of objective:	1.77 in (45 mm)	1.77 in (45 mm)	1.57 in (40 mm)	1.57 in (40 mm)	1.2 in (30 mm)	1.2 in (30 mm)	1.2 in (30 mm)
Magnification:	34x	34x	30x	30x	28x	24x	20x
Resolution power:	2.5"	2.5"	3"	3"	3.5"	3.5"	4.5"
Field of view:	1°20' (2.3 ft @ 100 ft)	1°20' (2.3 ft @ 100 ft)	1°30' (2.6 ft @ 100 ft)	1°30' (2.6 ft @ 100 ft)	1°30' (2.6 ft @ 100 ft)	1°30' (2.6 ft @ 100 ft)	1°30' (2.6 ft @ 100 ft)
Minimum focusing distance:	3.28 ft (1.0 m)	3.28 ft (1.0 m)	0.98 ft (0.3 m)	0.98 ft (0.3 m)	2.46 ft (0.75 m)	2.46 ft (0.75 m)	2.46 ft (0.75 m)
Stadia ratio:	1:100	1:100	1:100	1:100	1:100	1:100	1:100
Stadia additive constant:	0	0	0	0	+10 cm	+10 cm	+10 cm
LEVEL VIAL SENSITIVITY							
Circular level:	10' / 2 mm	10' / 2 mm	10' / 2 mm	10' / 2 mm	10' / 2 mm	10' / 2 mm	10' / 2 mm
STANDARD DEVIATION							
per 1-km double-run leveling:	±0.8 mm	±0.8 mm	±1.0 mm	±1.0 mm	±1.5 mm	±1.5 mm	±1.5 mm
With micrometer:	±0.4 mm	±0.4 mm	±0.45 mm	±0.45 mm	—	—	—
	AS-2C	AS-2	AE-7C	AE-7	AP-8	AC-2S	AX-2S
AUTOMATIC COMPENSATOR							
Type:	wire-hung, air damper	wire-hung, air damper	wire-hung, air damper	wire-hung, air damper	wire-hung, magnetic	wire-hung, magnetic	wire-hung, magnetic
Compensation range:	±12'	±12'	±16'	±16'	±16'	±16'	±16'
Setting accuracy:	±0.3"	±0.3"	±0.35"	±0.35"	±0.5"	±0.5"	±0.5"
HORIZONTAL CIRCLE							
Diameter of circle:	3.2 in (80 mm)	—	4.6 in (118 mm)	—	4.3 in (110 mm)	4.3 in (110 mm)	4.3 in (110 mm)
Minimum increment:	1° / 1 g	—	1° / 1 g	—	1° / 1 g	1° / 1 g	1° / 1 g
Scale reading (direct):	10' / 10 cg	—	1° / 1 g	—	1° / 1 g	1° / 1 g	1° / 1 g
Reading by estimation:	1' / 1 cg	—	0.1° / 0.1 g	—	0.1° / 0.1 g	0.1° / 0.1 g	0.1° / 0.1 g
DIMENSIONS							
Instrument (L X W X H):	10.2 x 5.4 x 5.6 in (259 x 136 x 142 mm)	10.2 x 5.4 x 5.6 in (259 x 136 x 142 mm)	8.7 x 5.4 x 5.6 in (220 x 136 x 142 mm)	8.7 x 5.4 x 5.6 in (220 x 136 x 142 mm)	7.5 x 5.0 x 4.8 in (190 x 128 x 123 mm)	7.5 x 5.0 x 4.8 in (190 x 128 x 123 mm)	7.5 x 5.0 x 4.8 in (190 x 128 x 123 mm)
Carrying case (L X W X H):	14.9 x 7.7 x 7.8 in (379 x 195 x 197 mm)	14.9 x 7.7 x 7.8 in (379 x 195 x 197 mm)	14.9 x 7.7 x 7.8 in (379 x 195 x 197 mm)	14.9 x 7.7 x 7.8 in (379 x 195 x 197 mm)	11.5 x 6.7 x 6.4 in (292 x 170 x 163 mm)	11.5 x 6.7 x 6.4 in (292 x 170 x 163 mm)	11.5 x 6.7 x 6.4 in (292 x 170 x 163 mm)
	AS-2C	AS-2	AE-7C	AE-7	AP-8	AC-2S	AX-2S
WEIGHT							
Instrument:	4.2 lbs (1.9 kg)	4.0 lbs (1.8 kg)	3.7 lbs (1.7 kg)	3.7 lbs (1.7 kg)	2.8 lbs (1.25 kg)	2.8 lbs (1.25 kg)	2.8 lbs (1.25 kg)
Carrying case:	4.2 lbs (1.9 kg)	4.0 lbs (1.8 kg)	4.2 lbs (1.9 kg)	4.0 lbs (1.8 kg)	2.7 lbs (1.2 kg)	2.7 lbs (1.2 kg)	2.7 lbs (1.2 kg)