

Automatic Levels - Nikon AP/AC/AX Series



- Three models to choose from:
AP-8/AC-2S/AX-2S
- Compact and lightweight
- Water-resistant construction
- Magnetic-dampened automatic compensator
- Horizontal tangent knobs with unlimited range
- Smooth, precise pointing and angular measurement
- Detachable eyepiece lens

AP/AC/AX Series auto levels are easy to set up and easy-to-use. All three models can attach to both flat- and spherical-head tripods. Horizontal tangent knobs with an unlimited range ensure smooth, precise pointing and angular measurement, and you can operate them with either hand. The detachable eyepiece lens lets you use an optional diagonal eyepiece prism for working in extremely close or steep quarters. Nikon optics effectively let in more light, so you see brighter, sharper images-especially in low-light conditions. The AP-8 model auto level features a 28x high-magnification telescope, the AC-2S has a 24x telescope, and the AX-2S has a 20x telescope. All three models offer minimum focusing down to 2.46 ft (0.75 m) for better performance in tight spots or on steep slopes.

SPECIFICATIONS	AP-8	AC-2S	AX-2S
TELESCOPE			
Tube length	190 mm (7.5 in)	190 mm (7.5 in)	190 mm (7.5 in)
Image	erect	erect	erect
Magnification	28x	24x	20x
Effective diameter of objective lens	30 mm (1.2 in)	30 mm (1.2 in)	30 mm (1.2 in)
Field of view	1°30' (2.6 ft @ 100 ft)	1°30' (2.6 ft @ 100 ft)	1°30' (2.6 ft @ 100 ft)
Minimum focusing distance	.75 m (2.46 ft)	.75 m (2.46 ft)	.75 m (2.46 ft)
Stadia ratio	1:100	1:100	1:100
Stadia additive constant:	0	0	0
LEVEL VIAL SENSITIVITY			
Circular level	10'/2 mm	10'/2 mm	10'/2 mm
STANDARD DEVIATION (1 km double-run leveling)			
Without micrometer	±1.5 mm	±2.0 mm	±2.5 mm
AUTOMATIC COMPENSATOR			
Type	wire-hung, magnetic damper	wire-hung, magnetic damper	wire-hung, magnetic damper
Compensation range	±16'	±16'	±16'
Setting accuracy	±0.5"	±0.5"	±0.5"
HORIZONTAL CIRCLE			
Diameter of circle	110 mm (4.3 in)	110 mm (4.3 in)	110 mm (4.3 in)
Minimum increment	1°/1 g	1°/1 g	1°/1 g
Reading estimation	0.1°/0.1g	0.1°/0.1g	0.1°/0.1g
DIMENSIONS			
Instrument (L x H x W)	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 (7.5 x 5.0 x 4.8 in)
Carrying case	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 (11.5 x 6.7 x 6.4 in)
WEIGHT			
Instrument	1.25 kg (2.8 lb)	1.25 kg (2.8 lb)	1.25 kg (2.8 lb)
Carrying case	1.2 kg (2.7 lb)	1.2 kg (2.7 lb)	1.2 kg (2.7 lb)

Automatic Levels - Nikon AS/AE Series



- Four models to choose from: AS-2/2C, AE7/7C
- Compact and lightweight
- Waterproof construction
- Automatic air-dampened compensator
- Standard optical sight lens
- Powerful telescopes with improved minimum focusing
- Carrying case, adjusting pins and lens cap included

Nikon AS/AE Series auto levels feature waterproof, nitrogen-filled, high-power telescopes that help you make precise measurements even in the wettest conditions. They feature a unique automatic air-dampened compensator to prevent magnetic interference, and an endless horizontal fine drive to ensure smooth, precise pointing and angular measurement. AS/AE Series auto levels are easy to set up and easy-to-use. All four models can attach to both flat and spherical-head tripods, and the standard optical sight lens helps you find your target quickly, easily and accurately. A mirror with a pentaprism lets you view the circular bubble as an erect image during setup and sighting.

SPECIFICATIONS	AS-2/2C	AE-7/7C
TELESCOPE		
Tube length	259 mm (10.2 in)	220 mm (8.7 in)
Image	erect	erect
Magnification	34x	30x
Effective diameter of objective lens	45 mm (1.8 in)	40 mm (1.6 in)
Field of view	1°20' (2.3 ft @ 100 ft)	1°30' (2.6 ft @ 100 ft)
Minimum focusing distance	1.0 m (3.28 ft)	0.3 m (0.98 ft)
Stadia ratio	1:100	1:100
Stadia additive constant:	0	0
Resolution power	2.5"	3"
LEVEL VIAL SENSITIVITY		
Circular level	10'/2 mm	10'/2 mm
STANDARD DEVIATION (1 km double-run leveling)		
Without micrometer	±0.8 mm	±1.0 mm
With micrometer	±0.4 mm	±0.45 mm
AUTOMATIC COMPENSATOR		
Type	wire-hung, air damper	wire-hung, air damper
Compensation range	±12'	±16'
Setting accuracy	±0.3"	±0.35"
HORIZONTAL CIRCLE		
Diameter of circle	80 mm (3.2 in) (AS-2C only)	118 mm (4.6 in) (AE-7C only)
Minimum increment	1°/1 g	1°/1 g
Reading estimation:	1'/1 cg	0.1°/0.1 g
DIMENSIONS		
Instrument (L x H x W)	259 x 136 x 142 mm (10.2 x 5.4 x 5.6 in)	220 x 136 x 142 mm (8.7 x 5.4 x 5.6 in)
Carrying case	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)
WEIGHT		
Instrument	1.8 kg (4.0 lb)/1.9 kg (4.2 lb)	1.7 kg (3.7 lb)
Carrying case	1.8 kg (4.0 lb)/1.9 kg (4.2 lb)	1.8 kg (4.0 lb)/1.9 kg (4.2 lb)