



Auto Levels

AP/AC/AX Series



- Three models to choose from: AP-8/AC-25/AX-25
- 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 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-25 has a 24x telescope, and the AX-25 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-25	AX-25
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	25 m (2.46 ft)	25 m (2.46 ft)	25 m (2.46 ft)
Stadia ratio	1:100	1:100	1:100
Stadia additive constant	0	0	0
LEVELING SENSITIVITY			
Circular level	10/2 mm	10/2 mm	10/2 mm
STANDARD DEVIATION (1 km double-run leveling)			
Without micrometer	±15 mm	±20 mm	±25 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 CIRCULAR			
Diameter of circle	110 mm (4.3 in)	110 mm (4.3 in)	110 mm (4.3 in)
Minimum increment	1°11'	1°11'	1°11'
Reading estimation	0.1°10.1g	0.1°10.1g	0.1°10.1g
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)

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Auto Levels

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	25"	3"
LEVEL VIA LEVELING BUBBLE		
Graticule level	Ø72 mm	Ø72 mm
STANDARD BUBBLE TIDY (1 km double-run leveling)		
Without micrometer	±0.8 mm	±1.0 mm
With micrometer	±0.4 mm	±0.6 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°11'	1°11'
Reading estimate	7/11'	0.1°/0.11'
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 107 mm (14.9 x 7.7 x 4.2 in)	379 x 195 x 107 mm (14.9 x 7.7 x 4.2 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)

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TOTAL STATION ACCESSORIES

DATA TRANSFER CABLES

- RS232C Cable TS to PC (9pin)
Connects Nikon Total Station serial port to PC serial port
- RS232C Cable TS to PC (USB)
Connects Nikon Total Station serial port to USB port
- Mini USB Cable
Connects Nikon Total Station USB port to PC USB port

POWER SUPPLIES

- | | |
|--------------------------------|------------------------|
| Nivo C & M Series | DTM-322 |
| On-board Li-Ion battery | 4) NiMH AA batteries |
| Dual battery charger | 4x AA battery charger |
| AC adapter for battery charger | Input cord and adapter |

PRISMS AND EYEPIECES

- | | |
|---|----------------------------|
| Diagonal Eyepiece Prism (Erect Image)
For telescope (black body) | Lens Cap (Plastic snap-on) |
| Solar Filter (52mm) Objective | |
| Low-Power Eyepiece Lens | |
| Mag. 18x with Nivo C & M Series | |
| Mag. 21x with DTM-322 | |
| High-Power Eyepiece Lens | |
| Mag. 36x with Nivo C & M Series | |
| Mag. 41x with DTM-322 | |

INSTRUMENT CASES

- Plastic case for Nivo C & M Series
- Plastic case for DTM-322

TRIPODS, RANGE POLES, AND TRIBRACHS

TRIPODS

- Wooden, Heavy Duty, Round Head Tripod
- Aluminum, Heavy Duty, Quick Clamp Tripod
- Advanced Fiberglass Composite, Heavy Duty Tri-Max Tripod

RANGE POLES

- 2m Aluminum Range Pole
- 2m Carbon Fiber Range Pole
- 2m Carbon Fiber Snap-Lock Range Pole
- 2.6m Telescopic Range Pole

TRIBRACHS

- Tribrach Type W30
White, no optical plummet, circular level
- Tribrach Type W30b
Black, no optical plummet, circular level
- Tribrach Type W31
White, optical plummet, circular level
- Tribrach Type W31b
Black, optical plummet, circular level

ELECTRONIC THEODOLITE ACCESSORIES

PRISMS AND EYEPIECES

- Diagonal Eyepiece Prism (Erect Image)
Used for steep sighting, plumbing and when using the instrument in confined areas
For Main Telescope of Theodolite NE-100 Series
- Low-Power Eyepiece Lens
18x when attached to NE-100 Series
- High-Power Eyepiece Lens
36x when attached to NE-100 Series Theodolite
- Tubular Compass Adapter for NE-100 Series
To mount HE-C21001 Tubular Compass onto NE-100 Series
Carrying Handle

INSTRUMENT CASES

- Plastic Instrument Case for NE-100/101/102/103

AUTOMATIC LEVEL ACCESSORIES

PRISMS AND EYEPIECES

- Optical Micrometer in Meters for AS/AE Series
- Plane Parallel Micrometer for AS-2/AS/AE-7 Series with leatherette case
- Diagonal Eyepiece Prism (Erect Image)
- Low-Power Eyepiece Lens
22x when attached to AS-2/AS-2C
19x when attached to AE-7/AE-7C
17x when attached to AC-2S

- High-Power Eyepiece Lens
43x when attached to AS-2/AS-2C
37x when attached to AE-7/AE-7C
33x when attached to AC-2S

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