

Automatic Level

AL Series AL-241 | AL-241R | AL-271 |
AL-271R | AL-321 | AL-321R | AL-321S

High Performance

IPX6: For Use under the Harshest Conditions

The instrument is waterproof: protection class IPX6. A gas-filled objective lens compartment prevents moisture condensation on the lenses.

Automatic Compensator

This newly-developed automatic compensator is wire suspended and magnetically damped.

The Pentax Automatic Level AL is impressively equipped and applicable in surveying and construction



PENTAX

Pentax AL Series Levels

ROBUST PRECISION INSTRUMENTS FOR SURVEYING AND CONSTRUCTION

HIGH PERFORMANCE FOR A WIDE RANGE OF APPLICATIONS

The AL-series automatic levels are accurate and easy to use. They feature improved performance and are compact and light.

SHORT FOCUS DISTANCE

The AL-241 and AL-271 provide an extremely short focus distance of 12 inch (30 cm), allowing usage in confined space.

QUALITY 'DESIGNED BY PENTAX'

- Superior optics in terms of sharpness, contrast and range.
- High Resolution Telescope: bright images and high resolving power enable clear targetting.
- Compact, Watertight IPX6 and Robust (only high-grade materials are used).

Technical specifications

AL-Series	AL-241	AL-241R	AL-271	AL-271R	AL-321	AL-321R	AL-321S
Telescope							
Image				Erect			
Magnification	24 x		27 x		32 x		
Objective aperture	36 mm		40 mm		45 mm		
Resolving power	3.5"		3"		2.5"		
Field of view	2.5 % (1°26')				2.3 % (1°20')		
Minimum focus distance	0.3 m/12"				0.5 m/20"		
Stadia ratio				100			
Stadia constant				0			
Automatic compensator							
Compensation range				± 12'			
Setting accuracy	± 0.5"				± 0.3"		
Standard deviation*	± 2.0 mm		± 1.5 mm		± 0.8 mm		
(1 km double run levelling)**	-		-		± 0.4 mm		

USEFUL ACCESSORIES

The AL-series Levels offer a wide variety of optional accessories to match different job conditions.

- **Parallel Plate Micrometer (SM4)**
Parallel Plate micrometer SM4 attached to the front of the telescope provides reading down to 0.1mm.
- **Diagonal eyepieces (SBL2)**
The diagonal eyepiece SBL2 can be used when space is limited or when the instrument is set up at low level.
- **Illumination device (EP2)**
The illumination device EP2, attached to the front of the telescope, provides light to the telescope reticle, allowing operation at night or when working in dark places like a tunnel.



AL-Series	AL-241	AL-241R	AL-271	AL-271R	AL-321	AL-321R	AL-321S
AL-Series							
Sensitivity of vial							
Circular vial				8' / 2 mm			
Horizontal circle	Metal						Glass
Diameter	96 mm						88 mm
Graduation	1°/1G(360° or 400G)						10°/10c
Estimation	0.1°/ 0.1G						1°/1c
Levelling base	3 screws	Spherical	3 screws	Spherical	3 screws	Spherical	3 screws
Dimensions and weights							
Length	219 mm					247 mm	
Width				147 mm			
Height	133 mm	137 mm	133 mm	137 mm	137 mm	141 mm	137 mm
Weight (kg/lbs)	1.6/3.5	1.8/3.9	1.6/3.5	1.8/3.9	1.8/3.9	2.0/4.4	2.0/4.4
Carrying case (mm)				L364 x W200 x H180 mm			

* Standard deviation measured without the parallel plate micrometer
** Standard deviation measured with the parallel plate micrometer

Standard configuration

Instrument, Objective cap, Plumb bob, Hexagonal wrench, Lens brush, Rain cover, Instruction manual, Carrying case



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www.pentaxsurveying.com

Ahead of Vision

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