

Automatic Level

AL Series AL-241 | AL-271 | AL-321

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-271	AL-321
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 0.1 mm.

• 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-271	AL-321
Sensitivity of vial			
Circular vial		8' / 2 mm	
Horizontal circle		Metal	
Diameter		96 mm	
Graduation		1°/1G(360° or 400G)	
Estimation		0.1' / 0.1G	
Levelling base		3 screws	
Dimensions and weights			
Length	219 mm		247 mm
Width		147 mm	
Height	133 mm		137 mm
Weight (kg/lbs)	1.6/3.5		1.8/3.9
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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Ahead of Vision

Light is the element of seeing and it brings color into the world. Pentax has excelled in this medium for over 85 years. Since our beginning our engineers have brought forth innovative precision optical equipment year after year. Pentax Optics – photo cameras, medical endoscopes as well as industrial and measuring optics – are always ahead of their time regarding quality, precision and innovation.

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