

**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 many
areas of surveying



Automatic Level

*AL Series AL-240 / AL-240R / AL-270 / AL-270R /
AL-320 / AL-320R / AL-320S*

High Performance



Pentax AL Series Levels are 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-240 and AL-270 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 targeting.
- ❑ Compact, Watertight IPX6 and Robust (only high-grade materials are used).

Useful accessories

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

- ❑ **Parallel 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 low.
- ❑ **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.

Technical specifications

AL-Series	AL-240	AL-240R	AL-270	AL-270R	AL-320	AL-320R	AL-320S
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	1:100						
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		

AL-Series	AL-240	AL-240R	AL-270	AL-270R	AL-320	AL-320R	AL-320S
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 configuration

- ❑ Instrument
- ❑ Objective cap
- ❑ Plumb bob
- ❑ Hexagonal wrench
- ❑ Lens brush
- ❑ Rain cover
- ❑ Silicon cloth
- ❑ Instruction manual
- ❑ Carrying case

