

# Auto Focus Level

**AFL Series** AFL-241 | AFL-281 | AFL-321

Eye fatigue can seriously affect  
your efficiency!



**PENTAX**

**IPX6:  
FOR USE  
UNDER  
THE HARSH  
CONDITIONS**

Water-proof sealed  
telescope: protection  
class IPX6

# Auto Focus Level...

AF Key with confirming  
'Beep'

Short Focus Distance  
0.6 m

High Resolution  
Telescope

AF/MF switch

No matter who  
does the aiming,  
the focus is  
always sharp  
and accurate.



**1 Aim    2 AutoFocus and Measure**

**ONE TOUCH ON THE KEY. IT'S EASY TO USE AND FAST.**



# Increase your Efficiency!

## DRAMATICALLY INCREASE YOUR OPERATIONAL EFFICIENCY!

Eye fatigue and time consuming focusing are major causes of decreased productivity. By choosing Pentax Auto Focus Levels, you can eliminate eye fatigue and keep efficiency high. The AFL series use auto focus techniques, originally developed for PENTAX cameras, to automate the focusing procedure. Pushing the AF key will focus the target in an instant to dramatically improve the operational efficiency.



## FLEXIBILITY AND FREEDOM OF CHOICE

The AFL-Level features two operation modes. By selecting the AF or MF mode, users can easily switch between the Auto Focus mode and the Manual mode. At MF position, the focusing knob enables normal manual operation. Pentax Auto Focus Levels offer you the flexibility to select the optimal measuring mode according to the conditions and the different types of targets.

## RELIABLE AUTOMATIC COMPENSATOR

Special alloy ribbons are used for a wire-suspension automatic compensator, which provides extremely stable survey results, even under unfavorable conditions such as heavy vibrations.



## OUTSTANDING FEATURES PROVIDE FIRST CLASS PERFORMANCE DURING DAILY USE, UNDER ALL CIRCUMSTANCES

- Optical Level eliminates eye-fatigue and time-consuming focusing
- AFL guarantees the highest accuracy and a time-proven automatic compensator
- Two-mode focusing: AF/MF-key allows users to easily switch between the auto focus mode and the manual mode
- Short focusing distance of 0.6 meter allowing operation in confined spaces
- Superior optics in terms of sharpness, contrast and range
- Easy and Quick observation of circular level via a hinged mirror
- Compact, Watertight IPX6 and Robust (only high-grade materials are used)
- Unequaled experience in optics and precision mechanism imaging technology.

**PENTAX**

# Pentax AFL Series Levels

**INCREASE YOUR EFFICIENCY!**

## Technical specifications

AFL-Series	AFL-241	AFL-281	AFL-321	AFL-Series	AFL-241	AFL-281	AFL-321
<b>Telescope</b>				<b>Automatic compensator</b>			
Image		Erect		Compensation range		± 12'	
Magnification	24 x	28 x	32 x	Setting accuracy	± 0.5"		± 0.3"
Objective aperture		45 mm		Standard deviation* (1 km double run leveling)**	± 2.0 mm	± 1.5 mm	± 0.8 mm
Resolving power	3.5"	3"	2.5"				± 0.4 mm
Field of view		2.3 % (1°20')		<b>Circular vial</b>			
Minimum focus distance		0.6 m/24"		Sensitivity		8 / 2 mm	
Stadia ratio		100		Horizontal circle		Metal	
Stadia constant		0		Diameter		96 mm	
<b>Auto focus Mechanism</b>				Graduation		1°/1G (360° or 400 G)	
Detection method		Phase-Contrast method		Reading method		Index	
Power source		One 6V lithium battery (2 CR5)		Estimation		0.1°/0.1G	
Auto focus operation		Approx. 6000 times		Leveling base method		Screws	
				<b>Dimensions and weights</b>			
				Instrument (mm)		L247 x W153 x H149 / 2.1 kg	
				Carrying case (mm)		L364 x W200 x H180 / 1.5 kg	

\* Standard deviation measured without the parallel plate micrometer

\*\* Standard deviation measured with the parallel plate micrometer

## The AFL-series offers a wide variety of optional accessories to match different job conditions.

- **Diagonal eyepieces (SBL2)**  
The diagonal eyepiece SBL2 can be used when space is limited or when the instrument is set up at low level.
- **Parallel Micrometer (SM5)**  
Parallel plate micrometer SM5 attached to the front of the telescope provides reading down to 0.1mm.
- **Illumination device (EP)**  
The illumination device, 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.

## Standard configuration

Instrument with Lithium 6V battery, Objective cap, Plumb bob, Hexagonal wrench, Lens brush, Rain cover, Instruction manual, Carrying case



EP



SBL2



SM5



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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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