

AFL Series



**PENTAX®**  
for your construction sites



**Eye fatigue can seriously affect your efficiency!**



**Auto Focus Level**

*AFL Series AFL-240 / AFL-280 / AFL-320*

**PEN**

# Auto Focus Level...

**IPX6:  
For Use under  
the Harshest  
Conditions**

Water-proof sealed  
telescope: protection  
class IPX6

AF Key with confirming *'Beep'*

Short Focus Distance  
0.6 m

AF/MF switch

High Resolution  
Telescope

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



# 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.



**High Resolution Telescope**  
bright images and high resolving power enable you to see the target very clearly.

**AF key**  
only a soft key touch is needed to focus the target and hear a confirming beep.

**Short focus distance**  
0.6 m, ideal for use in confined spaces.



**Knobs for endless tangent movement.**

**Battery box with durable Lithium battery for more than 6000 operations.**

**AF/MF switch dial for quick selection of the mode you desire. MF mode allows normal manual operation.**

## 1 Aim >>> 2 AutoFocus and Measure

One touch on the key. It's Easy to Use and Fast.

### 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



SBL2



EP

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.

### 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.

### Parallel Micrometer (SM5)

Parallel plate micrometer SM5 attached to the front of the telescope provides reading down to 0.1mm.

## Technical Specifications

AFL-Series	AFL-240	AFL-280	AFL-320
<b>Telescope</b>			
Image	Erect		
Magnification	24 x	28 x	32 x
Objective aperture	45 mm		
Resolving power	3.5"	3"	2.5"
Field of view	2.3 % (1°20')		
Minimum focus distance	0.6 m/24"		
Stadia ratio	1:100		
Stadia constant	0		
<b>Auto focus Mechanism</b>			
Detection method	Phase-Contrast method		
Power source	One 6V lithium battery (2 CR5)		
Auto focus operation	Approx. 6000 times		

AFL-Series	AFL-240	AFL-280	AFL-320
<b>Automatic compensator</b>			
Compensation range	± 12'		
Setting accuracy	± 0.5"		± 0.3"
Standard deviation *	± 2.0 mm	± 1.5 mm	± 0.8 mm
(1 km double run leveling)**	± 0.4 mm		
<b>Circular vial</b>			
Sensitivity	8' / 2 mm		
Horizontal circle	Metal		
Diameter	96 mm		
Graduation	1°/1G (360° or 400 G)		
Reading method	Index		
Estimation	0.1°/0.1G		
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



## Standard configuration

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



Your Authorized Pentax Dealer:

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