

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



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 right on."*



Increase your Efficiency!

Dramatically increase your operational efficiency!

Eye fatigue and time consuming focusing are the major causes of a 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 by PENTAX, 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 low.

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
Telescope			
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 inches		
Stadia ratio	1:100		
Stadia constant	0		
Auto focus Mechanism			
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
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 leveling)**	± 0.4 mm		
Circular vial			
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		
Dimensions and weights			
Instrument (mm)	L247 x W153 x H149 / 2.1 kg		
Carrying case (mm)	L364 x W200 x H180 / 1.5 kg		

*: Normal

**:.With parallel plate micrometer



Your Authorized Pentax Dealer:

Standard configuration

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



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