

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...

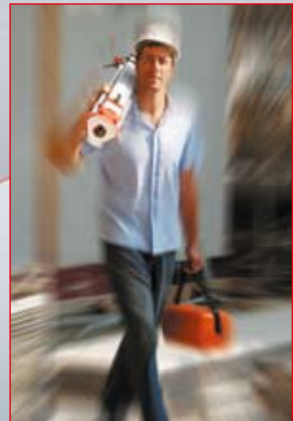
AF Key with confirming
'Beep'

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
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"		
Stadia ratio	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-241	AFL-281	AFL-321
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		

* 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.

- **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.

Standard configuration

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



EP



SBL2



SM5



TI Asahi Co., Ltd.
International Sales Department
 4-3-4 Ueno Iwatsuki-Ku, Saitama-Shi
 Saitama, 339-0073 Japan
 Tel.: +81-48-793-0118
 Fax: +81-48-793-0128
 E-mail: International@tiasahi.com
 www.pentaxsurveying.com/en/

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.

Your Official Pentax Dealer



Member symbol of the Japan Surveying Instruments Manufacturers' Association representing the high quality surveying products.

* Designs and specifications are subject to change without notice. - Printed in Belgium - © PENTAX 2011 - SURVEY/10/2011 - ZA5591880