

**PENTAX** | BL-100 Series

# Digital Automatic Levels!

BL-103A | BL-107A

- Magnification: 32X
- Large Graphic display
- 12-keys Alphanumeric keyboard
- Operation time: 24 hrs with Li-Ion battery
- Dust & Water resistance: IP66



**INCREASE YOUR  
EFFICIENCY!**

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



**80<sup>th</sup>**  
**PENTAX**  
SURVEYING  
SINCE 1933  
TI Asahi Co., Ltd.  
anniversary

| Model  | BL-103A   | BL-107A           |
|--|---|-------------------|
| <b>Telescope</b>                             |   |                   |
| Image  |   | Erect             |
| Magnification                                |   | 32X               |
| Objective aperture                           |   | 45mm              |
| Resolving power                              |   | <3"               |
| Field of view                                |   | <1°20'            |
| Minimum focus                                |   | 0.5 m             |
| Stadia ratio                                 |   | 100               |
| Stadia constant                              |   | 0                 |
| Focusing method                              |   | MF                |
| <b>Automatic compensator</b>                 |   |                   |
| Working Range                                |   | ± 14'             |
| Setting Accuracy                             |   | ± 0.3"            |
| Standard deviation (1km double run leveling) | <0.3mm  | <0.7mm            |
| <b>Measuring Range</b>                       |   |                   |
| Measuring Range                              |   | 2.0 m-105m        |
| Measuring Time                               |   | 3 sec.            |
| Least Count                                  |   |                   |
| Height Measurement                           |   | 0.01mm            |
| Distance Measurement                         |   | 1mm               |
| <b>Distance Accuracy</b>                     |   |                   |
|  |   | ±(0.2% x D) D>10m |
|  |   | ±10mm:<10m        |
| Sensitivity of circular level                |   | 8' / 2 mm ≤15%    |
|  |   | 1°(0.1°)          |
| <b>Display</b>                               |   |                   |
| Display                                      | Text, 16 letters x 2 lines, monochrome with illumination                              |                   |
| Keyboard                                     | 12 alphanumeric keys, 4-way arrow key for navigation ,4 function keys, 6 control keys |                   |
| <b>Memory function</b>                       |   |                   |
| Internal memory approx                       | 6000 points   |                   |
| Data output                                  | Transfer to 8G USB Storage  |                   |
| Interface                                    | USB   |                   |
| <b>Power Supply</b>                          |   |                   |
| Type of battery                              | Li-Ion, 7.4 V / 2.2 Ah  |                   |
| Operating Time                               | Minimal 24 Hours(with illumination)   |                   |
| Ambient Temperature Range                    | -20 °C to +50 °C (-4 °F to 122 °F)  |                   |
| Dust & water resistance                      | IP66  |                   |
| <b>Dimensions and weights</b>                |   |                   |
| Instrument                                   | 148mm(W) x 195mm (H) x 248mm (L) / 2.4 kg   |                   |
| Carrying case                                | 188mm(W) x 235mm (H) x 290mm (L) / 1.3 kg   |                   |

\* Specifications are subject to change without notice

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