

# DIGITAL LEVEL(DL120) USER'S MANUAL

## DESCRIPTION

This digital level is a highly versatile leveling tool designed for fast, easy operation

- Measuring range of digital display: 4×90°
- Resolution of Digital Display : ±0.01° at 0° and 90°  
±0.05° at 1° - 89°
- Precision of Digital Display : ±0.1° at 0° and 90°  
±0.2° at 1° - 89°
- Setting degrees which you want
- Unit of measurement (°degrees / % / IN/FT)
- Backlight
- Buzz selectable
- Hold function
- 0° calibration
- Battery type : 2x1.5V "AAA" batteries

## Product outlook



1. Keyboard
2. LCD Display
3. Bubble Vials
4. Measuring Surface
5. Battery Compartment

## Operation instructions

### 1. Battery replacement

Open the battery case. Put two "AAA" battery and close the case. Your electronic level is now ready to use.

### 2. ON/OFF

Press the "⏻/⏻" button to turn the LCD equipment on. Long press it to turn off the equipment.

**After about 3 minutes not using the equipment, it will switch off automatically.**

### 3. Level measure

Turn on the equipment and put it to the level position for measuring.



Correct measuring



Wrong measuring

### 4. Unit of measurement selection (°degrees / % / IN/FT)

After switching on, the screen always shows the actual slope in degree. By pressing the MODE button you can convert angles to different units. Push to change the display units from degrees (°) to percent (%), to pitch(in/ft). Pitch readings are in 1/8-inch/fee increments. The icon "↕" indicates the current angle's position, either up or down away from the horizontal or vertical position.

### 5. Set a special degrees

- Press the SET button for a short time, the setting mode is activated. The bit which you want to change will wink on LCD. The degrees can be set range 0~90.0°.
- Press the "REF/▲" button increase the value of the bit, or press the "▼/▼" button reduce the value of the bit. Press the SET button again, the next bit will be set. When press the SET button three times, setting completed. The LCD will show the current angle.
- Press the SET button for a long time, the degrees which you set will became zero.
- If the Buzz function is activated, beeper sounds at the degrees which you set.

### 6. Angle measure

If the equipment isn't in level, it will display a value on the screen. Press the "REF/▲" button to set current angle to be zero and the "S" icon will show on the screen, enter relative angle measurement mode. Press the button again to cancel the function.

### 7. Buzz function

Press the "⏻/⏻" button for a short time, the screen will show the "⏻" icon, beeper sounds at horizontal position or vertical position or the degrees which you set. Press the button again the function will be cancelled.

### 8. Backlight function

If it's not in setting mode, press the "☀/▼" button, backlight of the screen will be turned on and the light to be turned off if press the button again.

### 9. Hold

In positions where the display might not be readable, the actual measured value can then be saved by pressing the HOLD button, then a saved measured value is displayed and the "H" icon will show on the screen.

By pressing the HOLD button another time, the measuring mode will get reactivated.

### 10. Low battery indicator

Recommend to replace two new "AAA" battery, when the low Battery indicator "🔋" shows on the screen.

### 11. 0° calibration

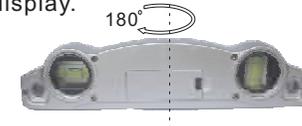
a. Turn off the equipment. Put the equipment on a flat and smooth surface. (see the following figure).



b. Press the "⏻/⏻" and the SET button at the same time, the calibration mode is activated.

c. Keep it unmoved for seconds and press the SET button, then "CAL1" will show on LCD.

d. Rotate the equipment 180° in the same location (see the following figure), then press the SET button, the "CAL2" show. After the "CAL2" disappear to tell calibrating completed, the LCD will show the current angle in high-accuracy-display.



### NOTE:

- The calibration must be performed on a flat and smooth surface with the gradient no more than 5°. If it exceeds 5°, "Err" will show on the LCD to tell the calibration failed, you must turn on the equipment again to complete calibration.
- In the calibration, the level also can not be beveled or moved.
- After calibration, the equipment automatically renovates original date with consumer's data, so please carefully use this function.

### Technical date:

Resolution of Digital Display :	±0.01° at 0° and 90°
	±0.05° at 1° - 89°
Precision of Digital Display:	±0.1° at 0° and 90°
	±0.2° at 1° - 89°
Working temperature:	0°C - 40°C
Storage temperature:	-10°C - 50°C
Power supply:	2x1.5V "AAA" batteries
Dimensions:	56x17x235mm
Weight:	0.22kg