



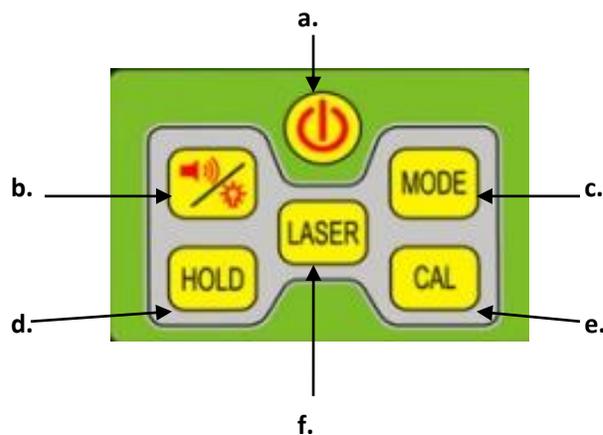
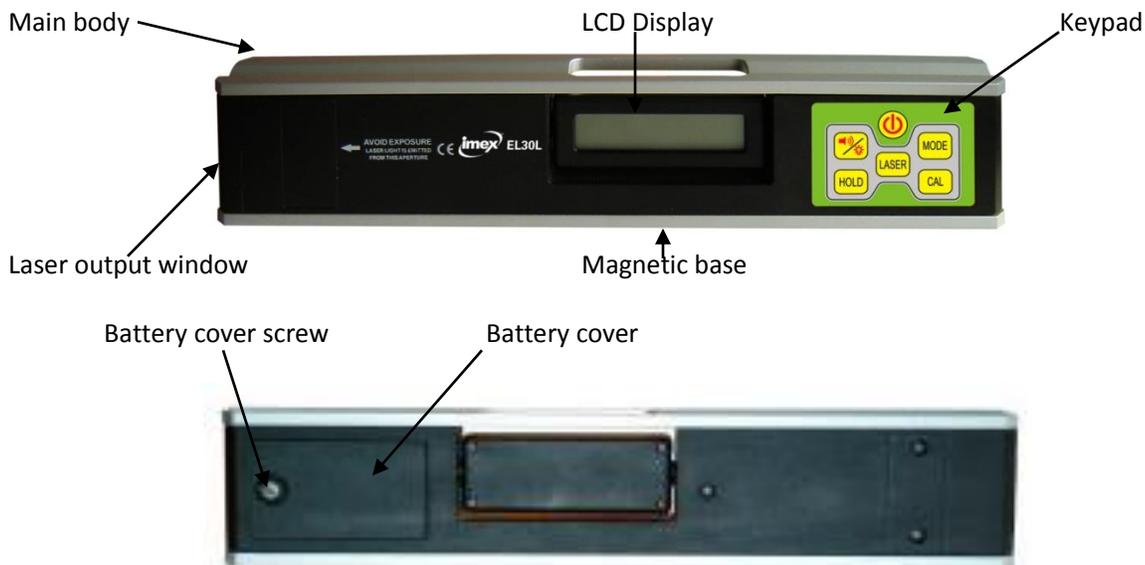
# Imex EL30L EL60L Operation Manual

## 1. Features and functions

The EL30L laser digital level is a digitalized torpedo level which can offer quick and accurate angle measurement on the horizontal plane and also long-distance laser indication

- ~ Measure the angle to the horizontal plane
- ~ LCD is rotatable by 180°
- ~ Display holding function
- ~ Inclination direction indication
- ~ Self-calibrate able

## 2. Instrument Overview



**a. Power:** On/off (short press)

**b. Sound/Illumination:** Long press (>2 sec) turns LCD illumination on/off, Short press (<1 sec) turns sound function on/off

**c. Mode:** Changes measuring mode %, °, mm/m, inch/ft

**d. Hold:** Press to hold current display

**e. Calibration:** Used for level calibration

**f. Laser:** Turns laser beam on/off

### 3. Getting Started

#### 3.1 Battery installation

1. Loosen the screws on the battery cover.
2. Open the battery cover and put batteries into the battery case according to the polarity shown in the battery slot. Replace the battery cover and tighten the screw.

#### 3.2 Initial Set-up

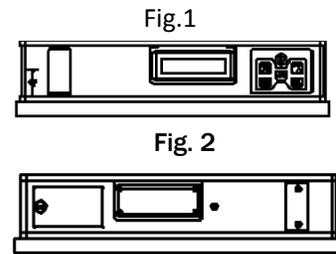
1. After putting in the batteries, the instrument turns on automatically, then the LCD shows "GOOD", then shows "- 0 -"
2. Now proceed with calibration procedure (see 4. Self-check and calibration)

### 4. Self-check and Calibration

Suggestion: In order to ensure the measurement accuracy, it is recommended that you check the accuracy before operating this laser

#### 4.1 Self Check

1. Select a flat and horizontal platform as a reference surface (fig.1)
2. Press the power button (a.) key to turn the unit on and wait for the reads on LCD become stable (about 3 seconds), then record the angle value A.
3. Turn the unit by 180 degree, still place the unit on the original place (fig.2), and wait for the reads on LCD to become stable (about 3 seconds) record the angle value B.
4. If A, B angle value margin exceed 0.2 degree, it is necessary to calibrate the horizontal accuracy.



Also follow above procedure in vertical position to check vertical accuracy

#### 4.2 Calibration

1. Select a flat and horizontal platform as a reference surface
2. Press the power button (a.) key to turn the unit on
3. Press and hold the CAL button until -0- is displayed on the LCD screen. Wait 3 seconds, and press the CAL button again the LCD will display -1-
4. Turn the unit 180 degrees, still place the unit on the original place, and wait for 3 second, then press CAL, the LCD will display -2-, then will display angle value. Horizontal calibration is now complete.

Note: all the above operation should be operated on the same position of the same plane.

To calibrate vertical plane, repeat above procedure on vertical plane.

### 5. User safety

- ~Do not stare into laser beam directly.
- ~Do not disassemble the instrument or attempt to perform any internal servicing. Repairs and servicing could be performed only by authorized service centers.

### 6. Technical Specifications

Measuring Accuracy	±0.1°	Laser indication range	± 0.3mm/m
Working Range	0°-360°	Power	3 x AAA Batteries
Display Mode	5 Display modes	Working temperature	-10°C to +45°C
Resolution	0.1°	Size	305 x 60 x 32mm
Laser wavelength / class	650nm / II	Weight	670g (with batteries)

### 7. Maintenance

- ~ This instrument should be carefully operated and properly preserved, any violent shock or falling will possibly result in to damage the instrument.
- ~ Keep the instrument clean, especially the laser output window glass, and remove dust with a soft clean cloth.
- ~ Please do not use the instrument under cankerous combustibile or explosive conditions.
- ~ Keep out of wet and damp condntions
- ~ Do not attempt to disassemble the instrument, as any unprofessional disassembly will result in damage to the instrument.
- ~Take the batteries out when the instrument is not in use for long periods of time.