



**One-Sided Laser Detector with Clamp for
Green Beam Lasers
*Model No. 40-6760***



Instruction Manual



Detector Usage

Note: A green laser uses a specific detector for the green beam. Lasers will not perform accurately with red detectors.

1. Product Description

A laser detector is an indispensable accessory when using rotary laser levels. The main function of the detector is to locate the position of laser signals transmitted by rotary lasers. This detection quickly and precisely provides the user with the horizontal and vertical references. This product features a high level of sensitivity, a double-faced display, low power consumption, good reliability and easy manipulation.

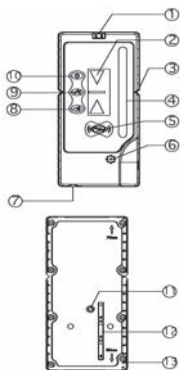
2. Technical Specifications

Detecting accuracy	Fine	$\pm 0.08''$ ($\pm 2\text{mm}$) when range is < 492 ft. (150m)
	Coarse	$\pm 0.16''$ ($+4\text{mm}$) when range is < 492 ft. (150m)
	Fine	$\pm 0.12''$ ($\pm 3\text{mm}$) when range is > 492 ft. (150m)
	Coarse	$\pm 0.24''$ ($+6\text{mm}$) when range is > 492 ft. (150m)
Turn-off time		6 minutes ± 1 minute
Power		3 "AAA" batteries
Sound indicator		Slow sounds, rapid sounds and a continuous sound
LED indicator		Up, mid, down
Dimensions		7.087" x 3.228" x 0.236" (180 x 82 x 26mm)
Weight		0.485 lb. (220g)
Others		Rain and dust resistant



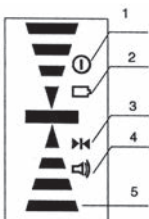
3. Components

(a) Structure



- 1) Horizontal vial
- 2) Display window
- 3) Center slot
- 4) Receiving window
- 5) Power button
- 6) Sound area
- 7) Battery-box
- 8) Sound button
- 9) Coarse/Fine detection button
- 10) Illumination button
- 11) Bracket mounting hole
- 12) Battery installation symbol
- 13) Scale

(b) Display



1. Power indicator
2. Low battery indicator
3. Detection indicator
4. Sound indicator
5. Detected position (grade) indicator

4. Operation Guide

(a) Battery Installation

- 1) Rotate battery-box cap counterclockwise to open it. (A coin fits easily into this slot.)
- 2) Insert 3 AAA batteries (note polarity) and then rotate battery-box cap clockwise to close it.
- 3) When the battery voltage is low, the unit will display a low battery indicator and there will be a buzzing “reminder” sound every 2-4 seconds. You will still be able to use the instrument for a short period of time, but should change the battery soon. (Note: When the low battery indicator is displayed, the illumination function cannot be used. (See “Using the Illumination Function.)

Note:

- a) Remove the batteries when the unit is being stored for a long time.
- b) When the low battery indicator is displayed, change the battery soon.
- c) Turning off the sound and illumination functions will allow you to use the unit longer.

(b) General Detector Usage

Note: Always keep the instrument stable when detecting.

- 1) Press the power key to turn the unit on. The LCD display will illuminate all the indicator segments for 0.5 second (Fig. 6). When the indicator segments are no longer illuminated, the detector is ready for use. Note: The LCD display will still have the power, detection and sound indicators illuminated (Fig. 7).

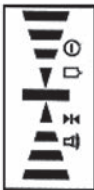


Fig. 6

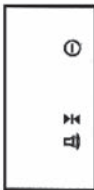


Fig. 7

2) Detecting horizontal laser level signals

- Place the unit in a vertical position (verify by checking the horizontal vial bubble).
- Make sure the receiving window (on front of detector) is facing the laser and is receiving the laser signal.
- If the LCD shows a “down” arrow and emits rapid sounds, this indicates that the laser level signal is located below the detector (Fig. 8).
- If the LCD shows an “up” arrow and emits slow sounds, this indicates that the laser level signal is located above the detector (Fig. 9).
- If the LCD shows the “center” mark and emits a continuous sound, this indicates that the laser level signal is located in the center position on the detector.

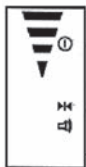


Fig. 8



Fig. 9

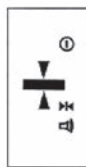


Fig. 10-1

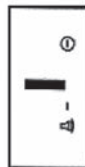


Fig. 10-2

(Fig. 10-1) LCD indicating center position of coarse detection

(Fig. 10-2) LCD indicating center position of fine detection

Note: As the laser signal gradually nears the center position on the detector, the arrow displayed will decrease in length until just the center position signal is displayed (Fig. 11, 12, 13-1, 13-2).

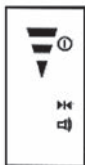


Fig. 11

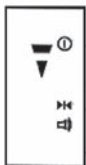


Fig. 12



Fig. 13-1



Fig. 13-2

3) Detecting vertical laser level signals

- Place the unit in a horizontal position.
- Make sure the receiving window (on front of detector) is facing the laser and is receiving the laser signal.
- If the LCD shows a “left” arrow and emits rapid sounds, this indicates that the laser signal is located to the right of the detector (Fig. 14).
- If the LCD shows a “right” arrow and emits slow sounds, this indicates that the laser signal is located to the left of the detector (Fig. 15).
- If the LCD show the “center” mark and emits a continuous sound, this indicates that the laser signal is located in the center position on the detector.



Fig. 14



Fig. 15



Fig. 16-1

(Fig. 16-1) LCD indicating center position of coarse detection

(Fig. 16-2) LCD indicating center position of fine detection



Fig. 16-2

- 4) When you are finished using the detector, press the power key to turn the unit off.

(c) Using the Sound Function

With the detector turned ON, press the sound switch to alternate between sound-on and sound-off.

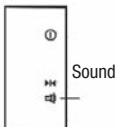


Fig. 17

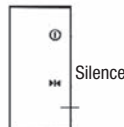


Fig. 18

Note: The sound indicator will also turn on and off in the LCD screen (Fig. 17, 18).

With the sound function turned on:

- If the laser signal is above the detector, a slow sound is emitted.
- If the laser signal is below the detector, a rapid sound is emitted.
- If the laser signal is aligned on the mid portion of the detector, a continuous sound is emitted.

Note: Whether or not the sound function is in use, there is still indicator sound when you press the key.

(d) Using the Coarse/Fine Detecting Switch

With the detector turned ON, press the coarse/fine switch. This switch alternates the unit between coarse and fine detecting. The detector has different check and measure precision.

(Fig. 19) LCD indicating coarse detection

(Fig. 20) LCD indicating fine detection



Fig. 19

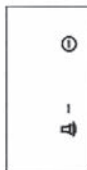


Fig. 20

(e) Using the Illumination Function

With the detector turned ON, press the illumination switch. This switch turns the background illumination of the LCD on and off.

(f) Power Saving Function

When the detector does not receive a laser signal for 6 continuous minutes, and there is no detection occurring during this 6 minutes, the unit will shut off automatically to prolong the battery's life.



(g) Low Battery Indicator

If the LCD shows a blinking battery sign, it is indicating that you have low charge on your batteries and that you need to change them soon (Fig. 21). If the battery power is too low, the detector will shut off automatically. At this time, you must change the batteries in order to continue using the detector.

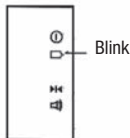


Fig. 21

5. Detector Maintenance

- When you are done using the detector, return it to its packing case.
- Keep the detector, particularly the detecting window, clean. If unit becomes dusty, use a clean cloth to gently wipe it clean.
- Avoid knocking the detector over or allowing it to fall on the ground.
- Although the detector is rain resistant, you should avoid submerging the unit in water or other liquids. If detector comes into contact with water or other liquids, wipe it dry immediately.
- Do not use detector around fire or expose it to fire in any way.

