



Two-Sided Laser Detector with Clamp **Model No. 40-6715**

Instruction Manual

The 40-6715 laser detector is an indispensable accessory when using rotary laser levels. The main function of the detector is to detect the position of the laser signals that are transmitted by rotary lasers. This detection quickly and precisely provides the user with the horizontal and vertical references.

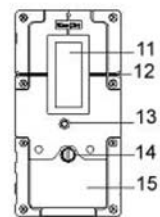
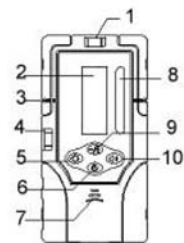
This product features high sensitivity, a double-faced display, low power consumption, good reliability and easy manipulation. It can be used with most types of rotating laser levels.

1. Technical Specifications

Detecting range:	≥300 ft. (100m)
Detecting accuracy:	Fine: ±0.039" (±1mm) Coarse 1: ±0.098" (±2.5mm) when range ≥ 492 ft. (150m) Coarse 2: ±??" (±10mm) when range ≥ 492 ft. (150m) 6 minutes ±1 minute
Automatic Shut-off:	9V battery, 30 hrs continuous use (with LCD illumination off)
Power Supply:	slow short beep, rapid short beep and continuous sound
Sound indicator:	down arrow, up arrow, horizontal on grade bar
LED display:	??" x ??" x ??" (160 x 85 x 28mm)
Dimensions:	?? lb. (0.45kg)
Weight:	Rain and dust resistant
Others:	

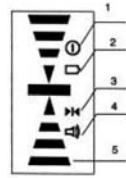
2. Components

(a) Exterior Instruction







- 1) Horizontal vial
- 2) Front display window
- 3) Front on grade mark
- 4) Vertical vial
- 5) LED key
- 6) Power key
- 7) Beeper
- 8) Reception window
- 9) Fine/Coarse accuracy key
- 10) Beeper key
- 11) Back display window
- 12) Back on grade mark
- 13) Bracket screw thread
- 14) Battery cover screw
- 15) Battery cover

(b) Display



1. Power on symbol
2. Low battery indicator
3. Fine/Coarse symbol
4. Beeper symbol
5. Position indication arrows

-  **Power Key:** Turn on/off the power
-  **Fine/Coarse Accuracy Key:** Switch detecting accuracy
-  **LED Key:** Turn on/off the LCD's light
-  **Volume Key:** Cycles between high, low and off

3. Operation Guide

(a) Battery Installation

- Open the battery cover door by turning the battery cover screw counter-clockwise. Put the battery into the battery case noting the polarity shown in the battery compartment.
- Put the battery cover door back, and tighten the screw.

Note: 1) Remove the battery when the unit is being stored for a long time.
2) When the low battery indicator is displayed, change the battery soon.



Figure 1

4. Operating Instructions

Power On

Press the power key to turn the unit on. The LCD display will illuminate all the indicator segments for 0.5 second (Fig.2).

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. 3).



Figure 2

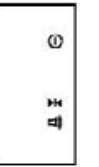


Figure 3

Fine/Coarse accuracy key

Power on and press the fine/coarse accuracy key, the unit will cycle between three accuracy options: fine, coarse 1, coarse 2. The accuracy symbol isplayed on the LCD will change.



Fine



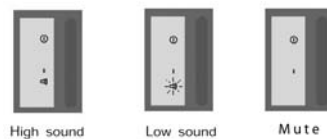
Coarse 1



Coarse 2

Volume Key

Power on and press the volume key, the unit will cycle between a high sound, low sound and mute. The sound symbol displayed on the LCD will change accordingly.



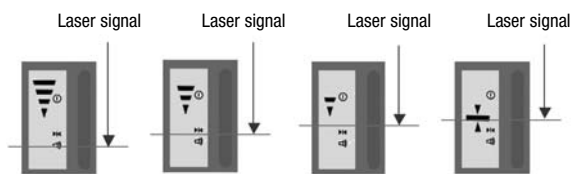
Note: There will be two beeps when turning the unit on and off. There will be one beep when changing functions.

Detecting Laser Level Signals

While detecting laser signals, the LCD will display as follows: (take the set-up state of high sound and fine detection as an example)

Laser signal	Laser signal	Laser signal	
The laser signal is down	The laser signal is up	Horizontal bar indicated on-grade	No laser signal is detected
Sound: rapid short beeps	Sound: slow short beeps	Sound: continuous sound	Sound: no sound

When the laser signal is near the on-grade mark, the displayed up and down arrows will decrease as the distance to the on-grade mark decreases.



1. When detecting a horizontal laser signal, it is important to have the bubble vial centered, as the deflection of the receiver will influence its receiving accuracy.
2. When detecting a vertical laser signal, it is important to have the bubble vial centered, as the deflection of the receiver will influence its receiving accuracy.
3. Keep the reception window facing the laser while detecting.
4. Hold the unit stable while detecting.

**LED Function**

Power on and press the LED key, the LCD will now be backlit.

Automatic Shut-off Function

When the unit does not receive a laser signal for 6 minutes, the unit will power off automatically.

Low Battery Display Function

When the battery sign blinks on the LCD, the battery is low and needs to be replaced. If the battery is very low, the unit will power off automatically. Replace the battery.

**Rod Clamp**

Connecting to the rod clamp.



Connecting to the grade rod.

**5. Detector Maintenance**

- Keep the unit, particularly the reception window, clean. If it does get dirty, use a cloth to wipe it clean.