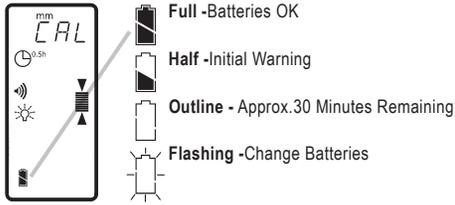
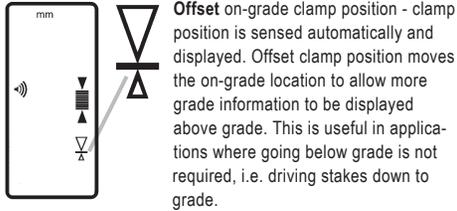


## Battery Status

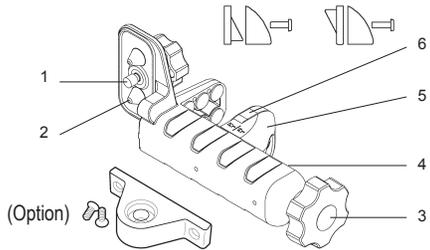


Displayed for 3 seconds after power-up.

## Move clamp position



## Rod Clamp



1. Captive Rod Clamp Screw - attaches to the back of detector.
2. Alignment Points (2) - help secure and align rod clamp.
3. Clamping Screw Knob - secures clamp to rods by moving the traveling jaw. Clockwise tightens; Counterclockwise loosens.
4. Reference Bar - top of bar is aligned with on-grade.
5. Traveling Jaw - moving jaw grips tightly to rods.
6. Reversible Face - slanted face for round and oval rods; flat face for rectangular and square rods.

## Specifications

Working Radius (Laser dependent): 1 m - 460 m (3 ft - 1500 ft)  
 Laser Detection Height: 127 mm (5")  
 Numeric Readout Height: 102 mm (4")  
 Accuracy (Dead band):

Ultra Fine	0.5 mm	0.02 in	1/32 in
Super Fine	1.0 mm	0.05 in	1/16 in
Fine	2.0 mm	0.10 in	1/8 in
Medium	5.0 mm	0.20 in	1/4 in
Coarse	10 mm	0.50 in	1/2 in
Calibration	0.1 mm	0.01 in	1/64 in

Reception Angle: ± 45° minimum  
 Detectable Spectrum: 610 nm ... 780 nm  
 Beeper Volumes:  
 Loud = 110 dBA  
 Medium = 95 dBA  
 Low = 65 dBA

LED Grade Indicators:  
 Front, Green on-grade,  
 Red Hi/Low

Power Supply:  
 Battery Life: 60+ hours  
 Automatic Shut Off: Selectable, 30 min, 24 h, Off  
 Environmental: Waterproof, Dustproof to IP67  
 Weight without clamp: 371 g (13.1 oz.)  
 Dimensions without clamp: 168 x 76 x 36 mm (6.6" x 3.0" x 1.4")

Operating Temperature: -20°C...+60°C (-4°F... +140°F)  
 Storage Temperature: -40°C...+70°C (-40°F...+158°F)

\*Specifications subject to change without notice.

## Warranty

The Model CR 4 laser detector and detector accessories are warranted to be free of defects in material and workmanship for a period of three years.

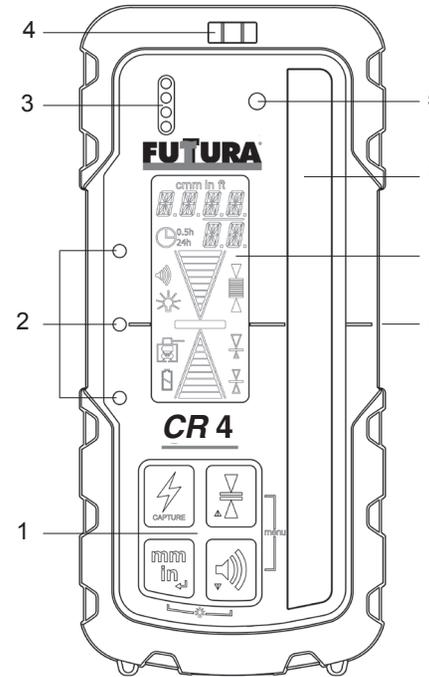
Any evidence of misuse, alteration, or an attempt to repair products by unauthorized personnel, or use of parts other than those provided by the manufacturer automatically voids the warranty.

The user of the product is expected to follow all operating, maintenance and care instructions.

The manufacturer's liability under this warranty is limited to repairing or replacing any product returned to its factory for that purpose. The foregoing states the entire liability of the manufacturer regarding the purchase and use of its product and they shall not be held responsible for any consequential loss or damage of any kind.

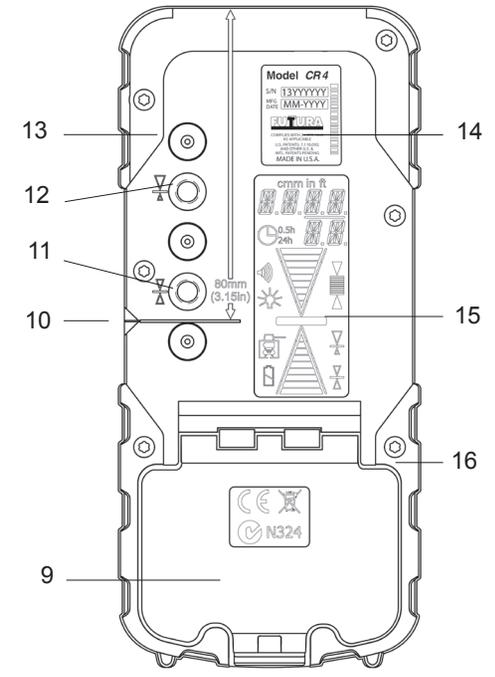
This warranty is in lieu of all other warranties, expressed or implied, and constitutes all of the manufacturer's liability with respect to merchandise sold by it.

# Laser Receiver Futura CR 4 Operator's Manual



Front view

1. Keypad - Power, Accuracy, Units & Volume switches.
2. LED-Display - Green for on-grade & Red for high / low.
3. Beeper output - Fast, solid & slow audible signal.
4. Bubble Vial - aids in keeping Laserometer level.
5. Anti-strobe sensor - Reduces false indication from strobe lights.
6. SuperCell Reception Window - 5 in / 127 mm of height.
7. Front LCD - Displays elevation, settings and status.
8. On-grade Mark - Aligned with laser center on-grade reading.

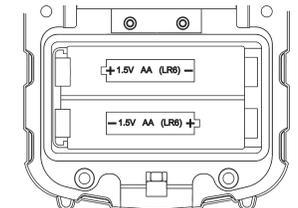


Rear view

9. Battery Door & Latch for two "AA" batteries.
10. Marking Notch (3.15 in / 80 mm from top).
11. Captive Screw Thread, Center on-grade clamp position.
12. Captive Screw Thread, Offset on-grade clamp position.
13. Clamp Guides - Dimples align rod clamp.
14. Serial Number / ID Label.
15. Rear LCD - repeats indications of front LCD.
16. Rubber over mold - Protects the unit from drops.

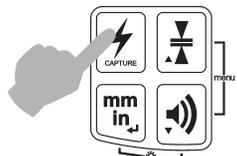
## Installing the Batteries

1. Open the battery door using a coin or similar pry device to release the battery door tab.
2. Insert two AA batteries noting the plus (+) and minus (-) diagrams inside the battery housing.
3. Close the battery door. Push down until it "clicks" into the locked position.



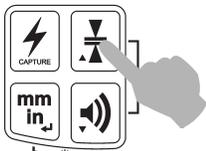
**Action**

**Turn power ON/OFF**



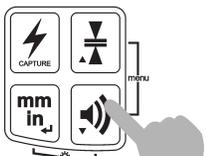
Press to turn power ON. Press and hold for 2 seconds to turn power OFF.

**Select accuracy**



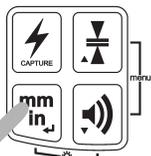
Press once to display current setting; push again to scroll through options.

**Select beeper volume**



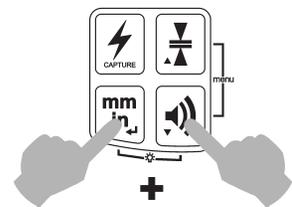
Press once to change current setting (A beep confirms the selected volume.)

**Select units of measure**



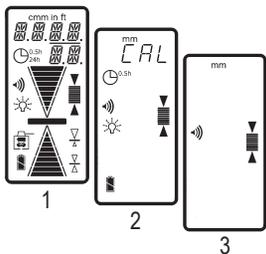
Press once to display current setting, additional pushes to scroll through options.

**Select brightness of LEDs**



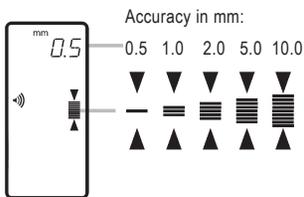
Press together to cycle the selection.

**Display**

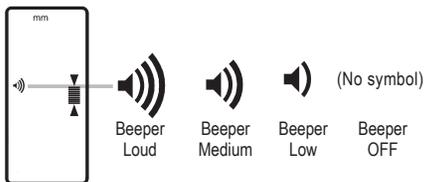


**Remarks**

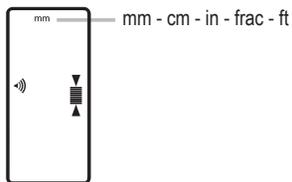
Initialization:  
 1. Test of LCD, LED and beeper  
 2. CAL: Calibration (3 sec.)  
 3. Unit is ready for use.  
 (Do not power up the unit in a laser beam or strobe. If detected, the unit will display "E200" and revert to the previous calibration.)



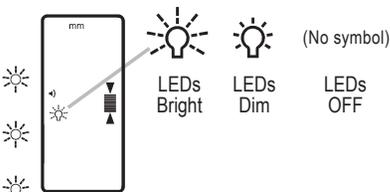
The selected unit of measure determines the displayed deadband (accuracy).  
 The current accuracy is stored in memory and will be retained when the unit is turned off or when batteries are replaced.



The current beeper volume is stored in memory and will be retained when the unit is turned off or when batteries are replaced.



The current unit of measure is stored in memory and will be retained when the unit is turned off or when batteries are replaced.



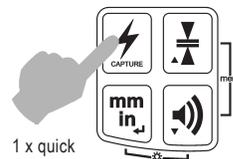
The current brightness of LEDs is stored in memory and will be retained when the unit is turned off or when batteries are replaced.

Displayed for 3 seconds after power-up.

**Action**

**CAPTURE Function**

A) Receiver is in the laser beam and the power is on



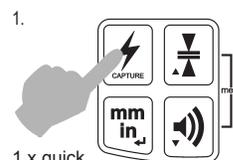
1 x quick



The current elevation reading will be held. A flashing display will confirm the reading has been captured.

Press any switch to return to normal operation.

B) Receiver is out of the laser beam and power is on:



1 x quick



A short intermittent beep (The beeper will turn on to Low if turned off.)

2. Place the Receiver in the beam. (Example: Fasten it to a measuring rod, bring the Receiver into the laser beam. You now have 5 seconds to plumb the rod and get the reading captured.)

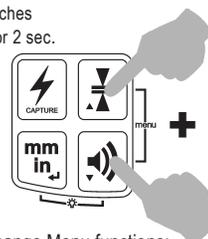


The beeper will chirp rapidly after approximately 5 seconds to confirm beam capture. A flashing display will also indicate the reading has been captured.

Press any switch to return to normal operation.

**Special Menu Functions**

Press switches together for 2 sec.



**MENU** (for 2 Sec., then SENS)

- SENS Sensitivity Medium\* - High Low
- AVG Averaging algorithm Medium\* - High - Low
- D.R.O. Numeric display ON\* - OFF - 1mm
- UNIT Units of measure MM\* - CM - IN - FRAC - FT
- FRC.R. Fractional Reduction ON\* - OFF
- ARRW Arrow Display DB\* (deadband) - PR (prop.)
- O.O.B. Out-of-Beam Display ON\* - OFF
- GRD.A. Grade Alarm ON - OFF\*
- A.S.O. Automatic shutoff 0.5h\* - 24h - OFF
- TX.O.L. Transmitter Out-of-Level OFF\* - RPS
- TX.O.B. Transmitter Low Battery OFF\* - RPS
- INFO Information about the Laserometer

Change special Menu Functions only in the case of special job requirements!

**Sensitivity of reception**  
**SENS (Sensitivity):**  
 Selects reception sensitivity to laser and other light sources.  
**MD - Medium\*:** for most applications.  
**HI - High:** When laser beam is weak, or at very long distances.  
**LO - Low:** If outside sources are disturbing elevation readings.

How to change Menu functions:

1. Scrolling up or down.
2. Enter Change mode.
3. Change selected items.
4. Confirm change.
5. To Exit.



**Automatic Shutoff**

**A.S.O. (Automatic Shut Off):**  
 0.5 - After 30 Minutes\*  
 OF - Off (Unit is permanently on.)  
 24 - 24 hour shutoff.

**Out-of-Beam Display**

**O.O.B. (Out-of-Beam Display):**  
 Sequence to show direction to get back in the laser beam ( for 25 s)  
 ON - Out-of-Beam Display ON\*  
 OF - Out-of-Beam Display OFF

**Grade Alarm**  
**GRD.A. (Grade Alarm):**  
 When turned ON, disables the audible signal when on-grade. When moved out of the on-grade deadband, the beeper activates as normal:  
 ON - Alarm on (Solid beeper OFF)  
 OF - Alarm off (Solid beeper ON)\*  
 \* Default setting

For more information about special Menu Function contact the manufacturer, importer or your local dealer.