

Battery Status



Full -
Batteries OK



Half -
Initial
Warning

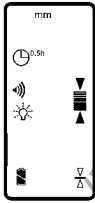


Outline -
Approx.
30 Minutes
Remaining



Flashing -
Change
Batteries

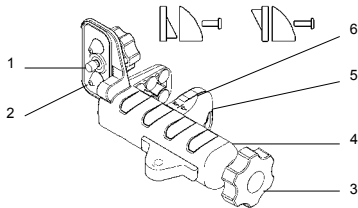
Move clamp position



Center on-grade clamp position - clamp position is sensed automatically and displayed. Standard center position displays an equal amount of information above and below grade. With no clamp, center on-grade.

Offset on-grade clamp position - clamp position is sensed automatically and displayed. Offset clamp position moves the on-grade location to allow more grade information to be displayed above grade. This is useful in applications where going below grade is not required, i.e. driving stakes down to grade.

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.

Notice to Our European Union Customers

For product recycling instructions and more information, please go to: www.trimble.com/environment/summary.html

Recycling in Europe

To recycle Trimble WEEE, call: +31 497 53 2430, and ask for the "WEEE associate," or



Mail a request for recycling instructions to:
Trimble Europe BV c/o Menlo Worldwide Logistics
Meerheide 45 5521 DZ Eersel, NL

Specifications

Working Radius:	1 m - 460 m (3 ft - 1500 ft)		
(Laser dependent):			
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	10.0 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:	2 x 1.5 Volt "AA" batteries		
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

Trimble warrants the HL700 to be free of defects in material and workmanship for a period of three years. Trimble or its authorized service center will repair or replace, at its option, any defective part, or the entire product, for which notice has been given during the warranty period. If required, travel and per diem expenses to and from the place where repairs are made will be charged to the customer at the prevailing rates. Customers should send the product to Trimble Navigation Ltd. or the nearest authorized service center for warranty repairs or exchange, freight prepaid. Any evidence of negligent, abnormal use, accident, or any attempt to repair the product by other than factory-authorized personnel using Trimble certified or recommended parts, automatically voids the warranty. The foregoing states the entire liability of Trimble regarding the purchase and use of its equipment. Trimble will not be held responsible for any consequential loss or damage of any kind. This warranty is in lieu of all other warranties, except as set forth above, including any implied warranty merchantability of fitness for a particular purpose, are hereby disclaimed. This warranty is in lieu of all other warranties, expressed or implied.



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HL700 Laserometer

User Guide



EMC Declaration of Conformity

This receiver has been tested and found to comply with the limits for a Class B digital device for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communication, and is pursuant to part 15 of the Federal Communication Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This receiver generates radio frequency. If it's not used in accordance with the instructions, it may cause harmful interference to radio or television reception. Such interference can be determined by turning the receiver off and on. You are encouraged to try eliminating the interference by one or more of the following measures:

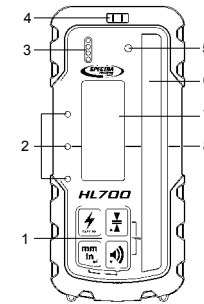
- Reorient or relocate the receiving antenna.
- Increase the separation between the laser and the receiver.

For more information, consult your dealer or an experienced radio/television technician.

CAUTION: Changes or modifications to the receiver that are not expressly approved by Trimble could void authority to use the equipment.

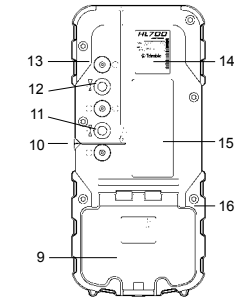
Declaration of Conformity

Application of Council Directive(s):	89/336/EEC
Manufacturer's Name:	Trimble Navigation Ltd. 5475 Kellenburger Road Dayton, Ohio 45424-1099 U.S.A.
Manufacturer's Address:	Trimble GmbH Am Prime Parc 11 65479 Raunheim, Germany
European Representative Address:	HL700
Model Number:	EC Directive 89/336/EEC using EN55022 and EN50082-1
Conformance to Directive(s):	ITE/residential, commercial & light industrial
Equipment Type/Environment:	Product meets the limit B and methods of EN55022
Product Standards:	Product meets the levels and methods of IEC 801-2, 8 kV air, 4 kV contact IEC 801-3, 3 V/m 26 to 1000 MHz 80%, @ 1 kHz



Front view

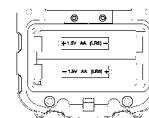
1. Keypad - Power, Accuracy, Units & Volume switches.
2. LED-Display - Green for on-grade & Red for high / low
3. Beeper output - Fast, solid & slow audible signal.
4. Bubble Vial - aids in keeping HL700 level.
5. Anti-strobe sensor - Reduces false indication from strobe lights.
6. SuperCell Reception 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

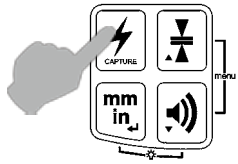
Installing the Batteries



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.

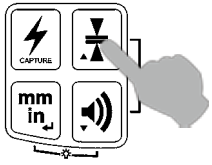
Action

Turn power ON/OFF



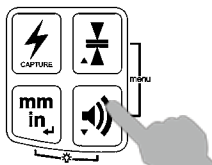
Press and hold for 2 seconds to turn power OFF.

Select accuracy



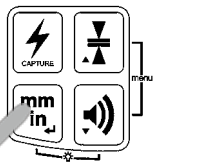
Press once to change current setting (A beep confirms the selected volume.)

Select beeper volume



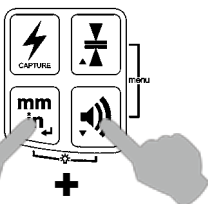
Press once to display current setting; push again to scroll through options.

Select units of measure



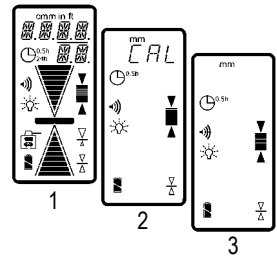
Press once to display current setting, additional pushes to scroll through options.

Select brightness of LEDs



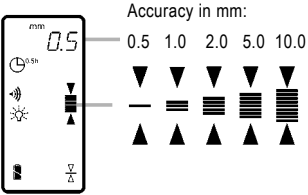
Press together to cycle the selection.

Display

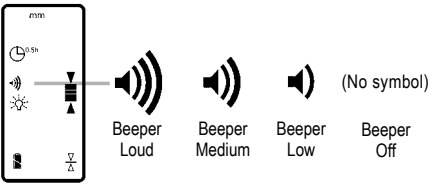


Initialization:
 1. Test of LCD, LED and beeper
 2. CAL: Calibration (3 sec.)
 3. Unit is ready for use.

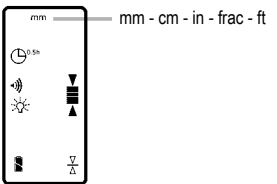
(Do not power up the unit in a laser beam or strobe. If detected, the unit will display "E200" and revert to the previous calibration.)



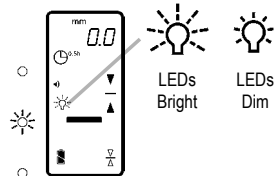
The selected unit of measure determines the displayed deadband (accuracy).
 The current accuracy is stored in memory and will be retained when the unit is turned off or when batteries are replaced.



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.

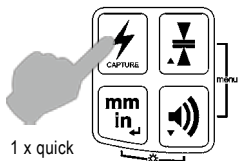


The current brightness of LEDs is stored in memory and will be retained when the unit is turned off or when batteries are replaced.

Action

CAPTURE Function

A) HL700 is in the laser beam and the power is on:



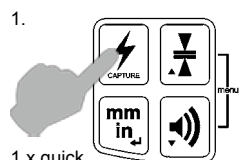
1 x quick



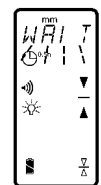
The current elevation reading will be held. A flashing display will confirm the reading has been captured.

Press any switch to return to normal operation.

B) HL700 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 HL700 in the beam. (Example: Fasten it to a measuring rod, bring the HL700 into the laser beam. You now have 5 seconds to plumb the rod and get the reading captured.)

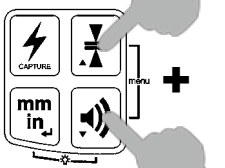


The beeper will chirp rapidly after approximately 5 seconds to confirm beam capture. A flashing display will also indicate the reading has been captured.

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*HighLow
- 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 manu-facturer, importer or your local dealer.

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