Battery Status



Full -

Batteries OK

*

Rod Clamp



Initial

Warning

on-grade.

Move clamp position









Remaining

Center on-grade clamp position - clamp

displayed. Standard center position displays

position is sensed automatically and

an equal amount of information above

and below grade. With no clamp, center

Offset on-grade clamp position - clamp

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.

position is sensed automatically and



Flashing

Change

Batteries



Specifications

Working Radius:

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 0.20 in Medium 5.0 mm 1/4 in Coarse 10.0 mm 0.50 in 1/2 in Calibration 0.1 mm 0.01 in 1/64 in

1 m - 460 m (3 ft - 1500 ft)

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

Low = 65 dBA

LED Grade Indicators: Front, Green on-grade,

Red Hi/Low

2 x 1.5 Volt "AA" batteries Power Supply: Battery Life: 60+ hours

Automatic Shut Off: Selectable, 30 min, 24 h, Off Environmental: Waterproof, Dustproof to IP67

Weight without clamp: 371 a (13.1 oz.)

Dimensions without

clamp: 168 x 76 x 36 mm (6.6" x 3.0" x 1.4")

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

*Specifications subject to change without notice.

manship 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

Notice to Our European Union Customers

6. Reversible Face - slanted face for round and oval rods; flat face

1. Captive Rod Clamp Screw - attaches to the back of detector.

3. Clamping Screw Knob - secures clamp to rods by moving the

traveling jaw. Clockwise tightens; Counterclockwise loosens.

2. Alignment Points (2) - help secure and align rod clamp.

4. Reference Bar - top of bar is aligned with on-grade.

5. Traveling Jaw - moving jaw grips tightly to rods.

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

for rectangular and square rods.



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

Warrantv

Trimble warrants the HL700 to be free of defects in material and workpurpose, are hereby disclaimed. This warranty is in lieu of all other warranties, expressed or implied.

Trimble.

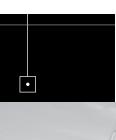
Trimble Construction Division 5475 Kellenburger Road Dayton, Ohio 45424-1099

+1-937-245-5600 Phone www.trimble.com





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HL700 Laserometer

User Guide



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This receiver has been tested and found to comply with the limits for a Class B digital device for radio noise 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 reason-

able 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 televi-

sion reception. Such interference can be determined by turning the re-

ceiver off and on. You are encouraged to try eliminating the interference

Manufacturer's Address: European Representative Address:

EMC Declaration of Conformity

Model Number: Conformance to Directive(s):

Equipment Type/Environment:

Product Standards:

Trimble Navigation Ltd. 5475 Kellenburger Road Dayton, Ohio 45424-1099 U.S.A. Trimble GmbH Am Prime Parc 11 65479 Raunheim, Germany HL700 EC Directive 89/336/EEC using EN55022 and EN50082-1 ITE/residential, commercial & light industrial

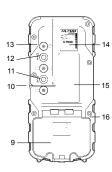
Product meets the limit B and methods of EN55022 Product meets the levels and methods of IEC 801-2, 8 kV air, 4 kV contact IEC 801-3, 3 V/m

26 to 1000 MHz 80%. @ 1 kHz



Keypad - Power, Accuracy, Units & Volume switches.

- LED-Display Green for on-grade & Red for high / low
- Beeper output Fast, solid & slow audible signal.
- Bubble Vial aids in keeping HR700 level.
- 5. Anti-strobe sensor - Reduces false indication from
- SuperCell Reception Window 5 in / 127 mm of height.
- Front LCD Displays elevation, settings and status.
- On-grade Mark Aligned with laser center on-grade



Rear view

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

Installing the Batteries

Front view



- 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.
- Close the battery door. Push down until it "clicks" into the locked position.

(D^{0.5h}

❈

2

※

(D)0.5h

*

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.

Accuracy in mm:

0.5 1.0 2.0 5.0 10.0

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.

(D^{0.5h}





Medium

(No symbol) Beeper Beeper Low Off

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

mm - cm - in - frac - ft

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





LEDs Dim

LEDs

OFF

(No symbol) 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

power is on:



B) HL700 is out of the laser beam and power is on:



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.)

Display

A) HL700 is in the laser beam and the



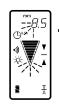
The current elevation reading will be held. A flashing display will confirm the reading has been captured.

Press any switch to return to normal operation.

Remarks



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



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.



How to change Menu functions:



1. Scrolling up or down.



2. Enter Change mode.



3. Change selected items.



4. Confirm change.







MF- W// (for 2 Sec., then 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.) Out-of-Beam Display ON*-OFF 0.0.B. 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

Information about the Laserometer

Automatic Shutoff

INFO

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

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.

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.