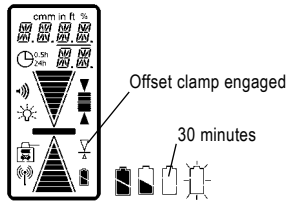
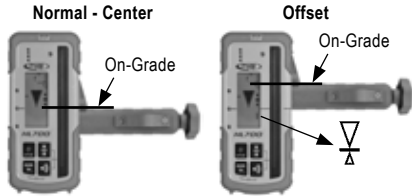


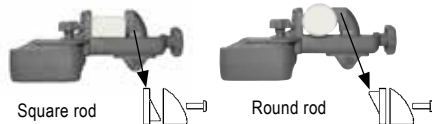
## Status Symbols



## Offset Clamp Position Engaged



## Rod Clamp - Grade Rod Adjustment



## 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 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.

### Notice to Our European Union Customers

For product recycling instructions and more information, please go to: [www.trimble.com/environment/summary.html](http://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:	127.0 mm	(5")	
Numeric Readout Height:	102.0 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
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, Blue Low		
Power Supply:	2 x 1.5 Volt "AA" batteries		
Battery Life:	60+ hours; 16 continuous backlight		
Automatic Shut Off:	30 minutes		
Environmental:	Waterproof, Dustproof to IP67		
Weight without clamp:	371 g (13.1 oz.)		
Dimensions without clamp:	168.0 x 76.0 x 36.0 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.			



Trimble - Precision Tools  
5475 Kellenburger Road  
Dayton, Ohio 45424-1099  
U.S.A.  
+1-937-245-5600 Phone  
Toll Free USA 1-888-527-3771

[www.spectralasers.com](http://www.spectralasers.com)



© 2018, Trimble Inc., All rights reserved.  
Reorder PN 1277-3990 Rev D (EN) (11/18)

## HL700 Digital Readout Receiver

User Guide



[www.spectralasers.com](http://www.spectralasers.com)

### 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 Inc.
Manufacturer's Address:	5475 Kellenburger Road Dayton, Ohio 45424-1099 U.S.A. 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

## HL700 Quick Start

### Attach clamp to receiver

Insert and tighten clamp screw into lower thread on rear of receiver

Top of clamp should be aligned with center lines of receiver



### 1. Press the Power switch to turn ON

Do not power up in a laser beam  
Ready after "CAL" disappears

### 2. Select Units of Measure

mm, cm, in, frac, ft

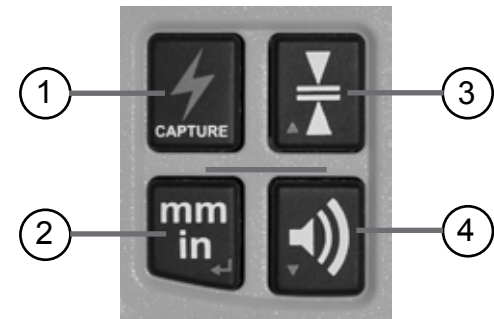
### 3. Select Accuracy

Five levels Ultra Fine to Coarse  
Value displayed based on units of measure selected

### 4. Select Volume

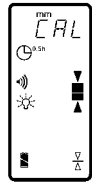
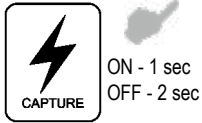
Four levels - Loud, Medium, Low, Off

Mount to rod or staff and position  
to receive laser beam.



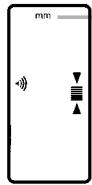
## Keypad Functions

### Power ON/OFF



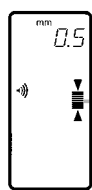
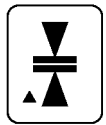
Do not power up in a laser beam  
Unit is ready after "CAL" disappears

### Units of Measure



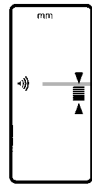
mm - cm - in - frac - ft

### Accuracy



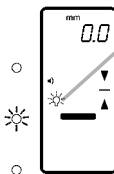
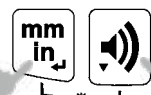
Accuracy in mm:  
0.5 1.0 2.0 5.0 10.0  
Accuracy in frac. inch:  
1/32 1/16 1/8 1/4 1/2

### Beeper Volume



Beeper Loud Beeper Medium Beeper Low

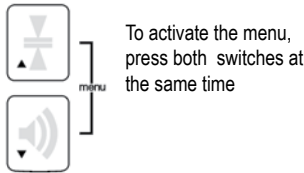
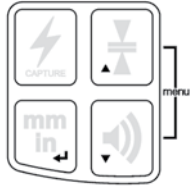
### LED Brightness



LEDs Bright LEDs Dim LEDs OFF  
Press both buttons repeatedly to change LED brightness

Selected settings are retained after power off

## Menu Functions



To activate the menu, press both switches at the same time



Enter selection



Navigate "back", To exit



▲ Scroll up



▼ Scroll down

### Backlight

- Activate Menu
- Scroll to LGHT. Enter.
- Scroll to ON or OF. Enter

### Sensitivity

- Activate menu.
- Scroll to SENS. Enter.
- Scroll to desired sensitivity. Enter.

### Fractional Inches Reduction

- Activate menu
- Scroll to FRC.R. Enter
- Scroll to ON or OF. Enter.

### Drift Alarm (Laser in Vertical)

- Activate menu.
- Scroll to DRFT. Enter.
- Scroll to ON or OF. Enter.

## Keypad Functions

### Capture



To save current reading:  
Press CAPTURE  
Flashing display confirms saved reading

To CAPTURE and hold reading when receiver is too distant to read directly:  
Press CAPTURE  
Place receiver in laser beam for 5 seconds  
Loud chirp sound indicates reading is captured  
Flashing display confirms saved reading

To Exit: Press any switch



## Menu Function Flow

Function		Description
LGHT OF	←	Backlight ON-OFF
▼	LGHT OF	Backlight Off. Enter
	LGHT ON	Backlight On. Enter.
SENS MD	←	Sensitivity Medium-High-Low Increased sensitivity increases distance Lower sensitivity improves strobe light rejection
▼	SENS MD	Select Med sensitivity (recommended; default)
	SENS LO	Select Low sensitivity (to improve strobe light rejection)
	SENS HI	Select High sensitivity to improve distance
FRC.R ON	←	Fractional reduction ON-OFF
▼	FRC.R ON	Turn on fraction reduction. Example reduce 4/8" to 1/2"
	FRC.R OF	Turn off fractional reduction. Fraction denominator stays the same. Useful to check fine surface flatness.
DRFT OF	←	Vertical mode drift alarm. Alerts you that laser has moved
▼	DRFT OF	Vertical drift alarm OFF
	DRFT ON	Vertical drift alarm ON
INFO	←	Information about receiver
▼	RPS	Displays current rotation speed of laser
	VER + ←	Displays software version
	MODL	Displays model number code
	S/N + ←	Displays unit serial number
EXIT		