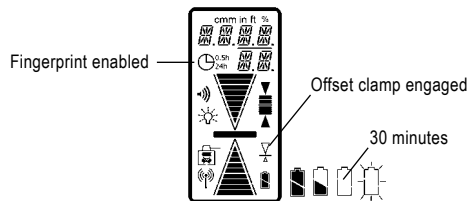
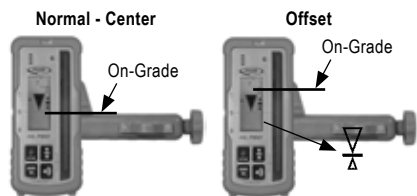


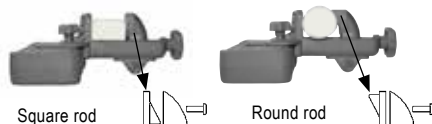
Status Symbols



Offset Clamp Position Engaged



Rod Clamp - Grade Rod Adjustment



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")
Internal Radio:	Full 2-way communication, operation and security lock with paired device
Radio Working Radius:	Up to 220 m (720 ft), depending on orientation, conditions and paired device
Accuracy (Deadband):	
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 (HL760) 520 nm ... 780 nm (HL760U)
Beeper Volumes:	Loud = 110 dBA Medium = 95 dBA, Low = 65 dBA
LED Grade Indicators:	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 w/o 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.

Warranty

Trimble warrants the HL760 / HL760U 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

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



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



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Reorder PN 102381 Rev C (EN) (11/18)

HL760 / HL760U Digital Readout Receiver

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 experience 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):

Manufacturer's Name:

Manufacturer's Address:

European Representative Address:

Model Number:

Conformance to Directive(s):

Equipment Type/Environment:

Product Standards:

89/336/EEC
Trimble Inc.
5475 Kellenburger Road
Dayton, Ohio 45424-1099 U.S.A.
Trimble GmbH Am Prime Parc 11
65479 Raunheim, Germany
HL760 / HL760U
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

HL760 / HL760U 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

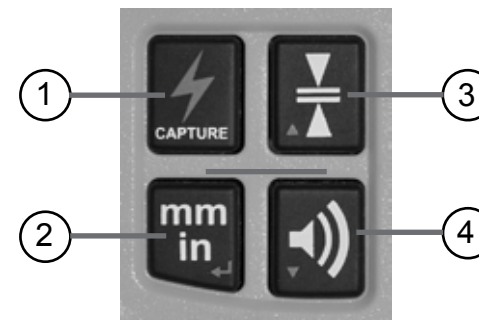
3. Select Accuracy

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.

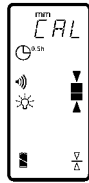


Keypad Functions

Power ON/OFF



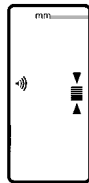
ON - 1 sec
OFF - 2 sec



Do not power up in a laser beam

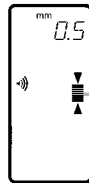
Unit is ready after "CAL" disappears

Units of Measure



mm - cm - in - frac - ft

Accuracy



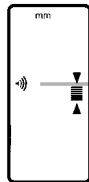
Accuracy in mm:

0.5 1.0 2.0 5.0 10.0

1/32 1/16 1/8 1/4 1/2

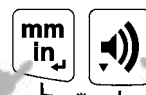
Accuracy in frac. inch

Beeper Volume



Beeper Loud
Beeper Medium
Beeper Low

LED Brightness



LEDs Bright
LEDs Dim
LEDs OFF (No symbol)

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



▲ Scroll up



▼ Scroll down



↵ Enter selection



To navigate "back",
To exit

Backlight

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

Pair with Laser

- Activate menu.
- Scroll to RDIO. Enter.
- Scroll to RDIO LS. Enter.
- Scroll to PAIR. Enter and also press appropriate switches on laser

Pair with another HL760 as remote

- Activate menu.
- Scroll to RDIO. Enter.
- Scroll to RDIO HL. Enter.
- Scroll to PAIR. Enter. Perform same function on other HL.
- Power receiver OFF
- The 1st receiver ON is Receiver. The 2nd displays "RMT.D okay"

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.

Fingerprint

- Activate menu.
- Scroll to FPRT. 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

Note: CAPTURE cannot be used while paired with another laser

Menu Function Flow

Function		Description
LGHT OF	↵	Backlight ON-OFF
▼	LGHT OF	Backlight Off. Enter
	LGHT ON	Backlight On. Enter.
RDIO	↵	Radio functions
▼	RDIO LS	Connect with laser
	RDIO HL	Connect with another receiver for remote display
	RDIO OF	Communications Off
PAIR	↵	Pair with selected device (Laser or Receiver)
	PAIR +	Pair with device now. Enter.
SENS MD	↵	Sensitivity Medium-High-Low Increased sensity 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
FPRT ON	↵	Fingerprint locks on to paired laser. Other lasers are rejected.
▼	FPRT ON	Fingerprint ON
	FPRT OF	Fingerprint OFF
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		