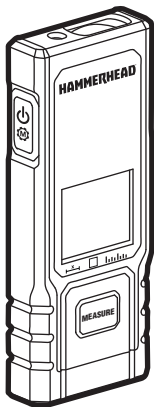


# HAMMERHEAD™

## COMPACT LASER MEASURING TOOL

MODEL HLMT130



CHARGE THE BATTERY BEFORE FIRST USE.

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### ATTACH YOUR RECEIPT HERE

Serial Number \_\_\_\_\_ Purchase Date \_\_\_\_\_

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**Questions, problems, missing parts?** Before returning to your retailer, call our customer service department at 1-877-888-1880, 8:30 a.m. – 8:00 p.m. EST (Monday – Friday) & 10:00 a.m. – 6:00 p.m. EST (Saturday and Sunday).

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## TECHNICAL SPECIFICATIONS

COMPONENT	SPECIFICATIONS
Battery voltage	500mAh 3.7 V Lithium
Laser	$\lambda=635\text{nm}$ , Class II laser, maximum laser output $\leq 1\text{mW}$
Measuring range (typically)	1-130 feet (0.2-40m)*
Measuring accuracy (typically)	$\pm 1/8$ inch ( $\pm 3$ mm)*
Smallest unit displayed	1/16 inch (1 mm)
Automatic switch off	Laser: 20 seconds
	Measuring tool: 3 minutes
Estimated battery life	Up to 5000 single measurements
Optimum operating temperature	32°F to 104°F (0°C to 40°C)
Storage temperature	-4°F to 158°F (-20°C to 70°C)

\*Important: Under unfavorable conditions, such as in bright sunlight or when measuring poorly reflecting or very rough surfaces, the tool's measuring range and accuracy will be reduced.

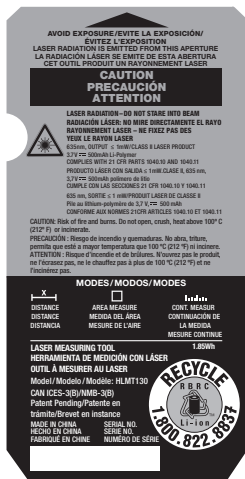
# SAFETY INSTRUCTIONS

## Safety Instructions for Compact Laser Measuring Tool

### WARNING

**LASER RADIATION.** Do not stare into beam. Class II laser product. Turn the laser beam on only when using this tool.

- **Do not remove or deface any product labels.**
- **Avoid direct eye exposure.** The laser beam can cause flash blindness.
- **Do not** operate the tool around children or allow children to operate the tool.
- **Do not** place the tool in a position that may cause anyone to stare at the laser beam, whether intentionally or unintentionally.
- **Do not** use on surfaces such as sheet steel that have shiny, reflective surfaces. The shiny surface could reflect the beam back at the operator.
- **Always turn the laser tool off when not in use.** Leaving the tool on increases the risk of someone inadvertently staring into the laser beam.
- **Do not** attempt to modify the performance of this laser device in any way. This may result in a dangerous exposure to laser radiation.
- **Do not** attempt to repair or disassemble the laser-measuring tool. If unqualified persons attempt to repair this product, serious injury may occur. Any repair required on this laser product should be performed only by qualified service personnel.



## SAFETY INSTRUCTIONS

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- Use of other accessories that have been designed for use with other laser tools could result in serious injury.
- **Do not** operate the tool outdoors.
- **Do not** place or store tool under extreme temperature conditions.

### **IMPORTANT SAFETY INSTRUCTIONS – SAVE THESE INSTRUCTIONS**

## DANGER

### **TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS**

#### **FCC Statement**

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
  - (1) This device may not cause harmful interference.
  - (2) This device must accept any interference received, including interference that may cause undesired operation.
2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## SAFETY INSTRUCTIONS

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### **NOTICE:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

### DANGER

People with electronic devices, such as pacemakers, should consult their physician(s) before using this product. Operation of electrical equipment in close proximity to a heart pacemaker could cause interference or failure of the pacemaker.

## UNPACKING

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When unpacking the box, do not discard any packing materials until all of the contents are accounted for:

**a. Open the carton to locate the following:**

- Compact Laser Measuring Tool
- USB charging cable
- Operator's manual

**b. Carefully lift the compact laser measuring tool out of the carton and place it on a stable, flat surface.**

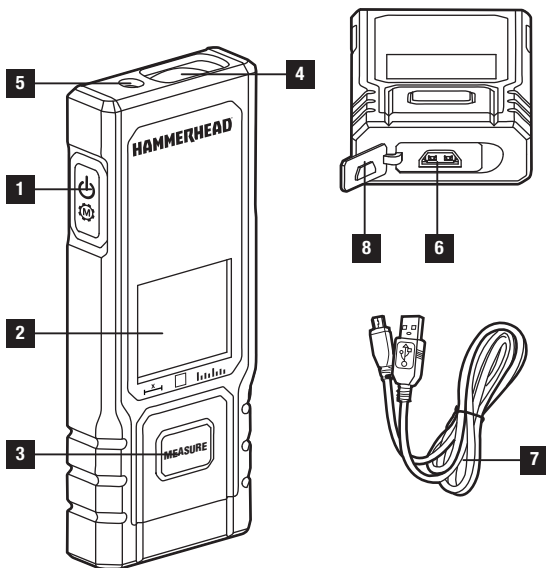
## DESCRIPTION

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### KNOW YOUR COMPACT LASER MEASURING TOOL

The compact laser measuring tool is a highly accurate measuring tool for fast, easy operation:

- Measures distances from 1-130 feet with an accuracy of  $\pm 1/8$  inch.
- Measures distances and computes area.
- Easy-to-read numbers.
- Integrated, rechargeable Lithium battery.



## DESCRIPTION

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PARTS	DESCRIPTION
1	Power/Mode/Unit button
2	LCD display
3	Measure button
4	Laser-receiving lens
5	Laser-exit aperture
6	Charging port
7	USB charging cable
8	Dust cover

### LCD DISPLAY ICONS



Full battery indicator



Empty battery indicator



Indicates that the measurement is taken from the rear of the tool.



Laser beam indicator

### MODE ICONS

Located below the LCD display



Single distance measurement indicator



Area measurement indicator



Continuous measurement indicator



# OPERATION

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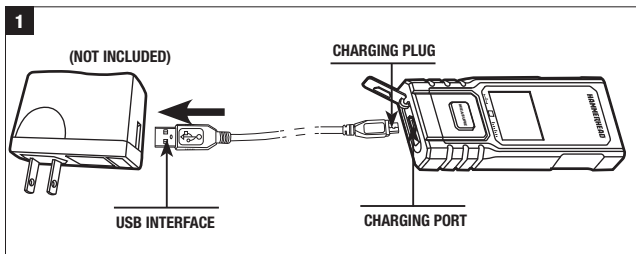
## 1. HOW TO CHARGE THE COMPACT LASER MEASURING TOOL

**NOTE:** The compact laser measuring tool is shipped partially charged; charge the battery before first use.

Optimum performance can be reached by recharging the tool for approximately 2 hours after use. It is not recommended to recharge the tool for more than 24 hours after each use.

- a. Insert the USB interface of the USB charging cable into the USB port of a USB wall charger (not included).
- b. Open the dust cover and insert the charging plug into charging port on the Laser Measuring Tool, making sure that they are properly connected.
- c. Connect the wall charger (together with USB charging cable) to the power outlet. The tool will turn on automatically. The battery indicator will begin to flicker on the LCD display to indicate that the compact compact laser measuring tool is charging.
- d. When charging is complete, the full-battery indicator will appear on the LCD display. Remove the USB charging cable from the measuring tool; the tool will turn off within 3 seconds. If the USB charging cable remains connected to the compact laser measuring tool, the tool will remain “ON”.



**NOTE:** The compact laser measuring tool will not turn off when the USB charging cable is removed during normal charging until 3 minutes have elapsed.



## OPERATION

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### 2. TO TURN THE COMPACT LASER MEASURING TOOL ON AND OFF

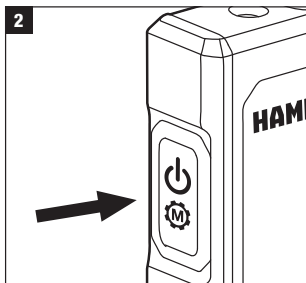
- a. Press the power/mode button  to turn on the tool. The tool will default to the single distance measuring mode.
- b. Press the power/mode button  for about 1 second to turn off the tool.

**NOTE:** When the measuring tool is inactive for 3 minutes, it will automatically turn off to save battery power.



**NOTE:** The display backlight or the laser beam will turn off after 20 seconds of no operation. Press any button to recover the displayed value.

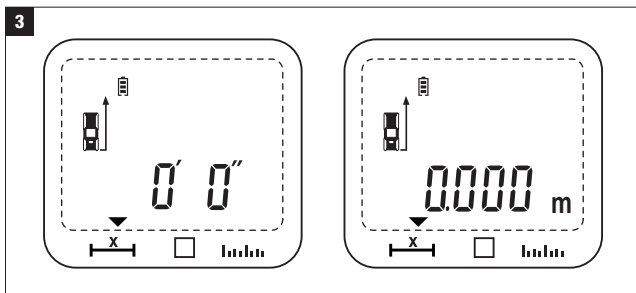
### 3. CHANGE THE UNIT OF MEASURE

- a. Press and hold the power/mode button to turn the compact laser measuring tool off.





## OPERATION


- b. Press and hold the power/mode button  for 1 second: the tool defaults to feet and inches. Continue holding for 3 seconds until the desired unit of measurements (inch/feet or meters) is displayed on the screen. When the desired unit of measurement appears on the screen, release the power/mode button . After releasing the button, the compact laser measuring tool turns itself on and subsequent measurements will be displayed in the selected unit.



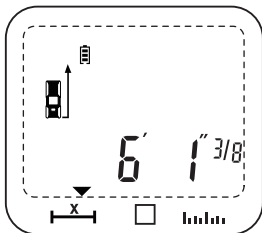
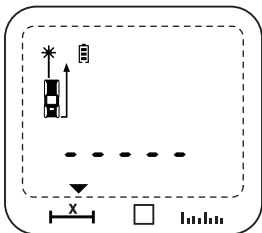
### 4. SINGLE DISTANCE MEASUREMENT

- a. Turn on the tool; the tool will default to the single distance measurement mode and the cursor will point to the single distance measurement indicator .
- b. Press the measure button  to turn on the laser; the laser indicator will blink. Aim the laser at the target to which you want to measure.


## OPERATION


- c. Press the measure button  again to take a measurement. The resulting measurement will be displayed on the LCD screen and the laser beam will turn off.

4a

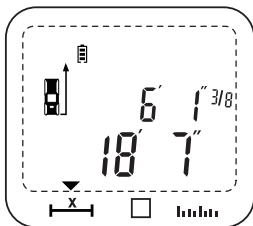


- d. To take a second measurement:

Press the measure button  to turn on the laser again; the first measurement will show in the upper row of the screen.







Press the measure button  again to take a measurement. The resulting second measurement will be displayed on the LCD screen, and the laser beam will turn off.

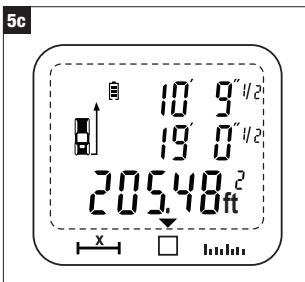
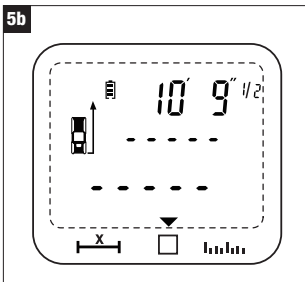
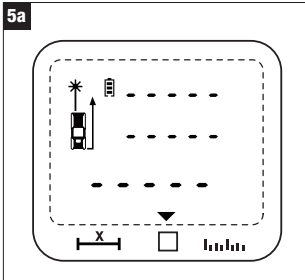
4b



## OPERATION

### 5. AREA MEASUREMENT





- Press the power/mode button  to move the cursor to the area measurement indicator .
- Press the measure button  to turn on the laser beam; the laser indicator will blink.
- Position the tool to aim the laser dot at the target to which you want to measure.
- Press the measure button  to display the measured length in first row of the screen.
- Position the tool to aim the laser dot at the width target.
- Press the measure button  again to display the area computation in the lowest row of the screen; the width will be displayed at the same time in the second row. The laser beam will turn off.
- Press the measure button  again to make a new measurement.

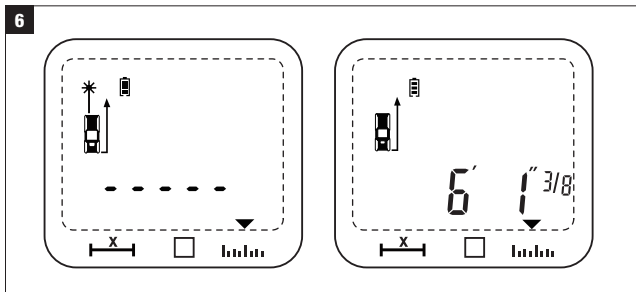


## OPERATION

### 6. CONTINUOUS MEASUREMENT

The continuous measurement function can be used for transferring measurements, e.g., from construction plans. In the continuous measurement mode, the compact laser measuring tool can be moved relative to the target. For example, in the continuous measurement mode, the user can target a wall or other object and as the user moves toward or away from the object, the changing distance to the target is continuously updated on the display.

- Press the mode button  to move the cursor to the continuous measurement indicator .
- Press the measure button  to turn on the laser beam; the laser indicator will blink.
- Press the measure button  again to take measurement, the beeper is activated and the tool sounds.
- Move the tool until the required distance value is indicated at the bottom of the display.
- The continuous measurement will continue to measure for about 3 minutes, and the measurement will automatically stop after 3 minutes.



**NOTE:** Press any button to stop the continuous measurement during the 3 minutes.

## OPERATION

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- f. Press the measure button  again to make a new measurement.

### ERROR SIGNALS

The following error signals may appear on the LCD display of your tool:

CODE	EXPLANATIONS	ACTION
Er001	The reflected laser signals are too strong.	Do not direct the laser at a highly reflective surface; cover the surface with white paper if necessary.
Er002	Out of range.	Take measurements within the range of 1-130 feet (0.2 to 40 m).
Er003	The target provides poor reflection of the laser.	Change the measuring target or cover it with a piece of white paper.
Er004	The temperature is too high.	Wait until the compact laser measuring tool has reached the operating temperature.
Er005	The temperature is too low.	Wait until the compact laser measuring tool has reached the operating temperature.
Er006	Low battery.	Charge the battery.
Er007	Strong vibration; you moved the tool too abruptly when measuring.	Always keep the tool steady.

## MAINTENANCE

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This compact laser measuring tool has been designed to be a low-maintenance tool. However, in order to maintain its performance, you must always follow these simple directions:

- a. **Avoid** exposing the tool to shock, continuous vibration or extreme hot or cold temperature.
- b. **Always** store the tool indoors.
- c. **Always** keep the tool free of dust and liquids. Use only a clean, soft cloth for cleaning. If necessary, slightly moisten the cloths with pure alcohol or a little water.
- d. **Do not** disassemble the compact laser measuring tool; this will expose the user to hazardous radiation exposure.
- e. **Do not** attempt to change any part of the laser lens.
- f. **Do not** dispose of this product in fire, batteries inside the product may explode or leak.

## TROUBLESHOOTING

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PROBLEM	CAUSE	SOLUTION
Tool cannot be switched on.	The battery charge is too low.	Charge the battery.
	The power button did not contact well.	Try to press the power button more firmly or call customer service.
Error code shows on display.	Please refer to "Error signals" above.	Please refer to "Error signals" above.



## WARRANTY

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This compact laser measuring tool is warranted to the original purchaser from the original purchase date for 24 Months, Hammerhead consumer laser tool models will be free from defects in material or workmanship for a period of ninety days if the tool is used for professional use. Please retain your receipt.

This compact laser measuring tool is warranted to the original user to be free from defects in material and workmanship. If you believe that the compact laser measuring tool is defective at any time during the specified warranty period, call HAMMERHEAD support at 1-877-888-1880 to speak with a customer service agent. This warranty does not cover: (1) Part failure due to normal wear or tool abuse; (2) any parts have been altered or modified by anyone other than an authorized HAMMERHEAD personnel.

This warranty excludes bits, bulbs and accessories. This warranty gives you specific legal rights, and you may also have other rights that vary from state.

