TOUGHBUILT®

TB-H2-LM-165-BT

OPERATING / SAFETY INSTRUCTIONS

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165' Laser Measurer

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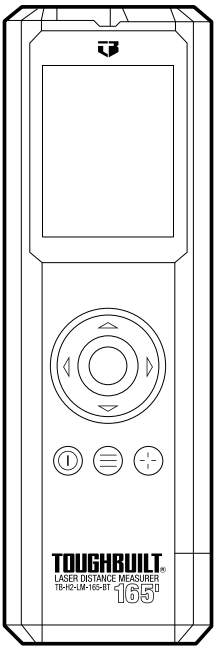

English see page 5
Spanish see page 18

IMPORTANT:
READ BEFORE USING

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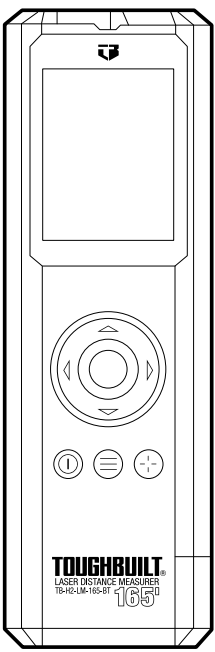


Before using this product, read, study and familiarize yourself with the contents of this manual. The specifications and general appearance of the instrument are subject to change without notice and without obligation by ToughBuilt® Industries, Inc. and may differ from those appearing in this manual.
Some of the diagrams may have been simplified.

TABLE OF CONTENTS

1. SAFETY, WARNINGS, AND PRECAUTIONS

GENERAL SAFETY WARNINGS:
⚠ WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions listed below may result in electric shock, fire and/or serious injury. **SAVE THESE INSTRUCTIONS**

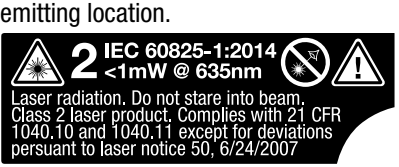
The following information is prepared to protect you and by-standers. Read and familiarize yourself with all the signs, warnings, cautions, and notifications:

The label on your laser may include the following symbols

Symbol	Meaning
V	Volts
mW	Milliwatts
	Laser Warning
nm	Wavelength in nanometers
LASER 2	Class 2 Laser Product
	To reduce the risk of injury, user must read instruction manual.
	Warning, Caution, Precaution
	Risk of eye injury. Wear ANSI-approved safety gogles with side shields
	Do Not Stare Into Beam.
	Laser Radiation.

Display	Meaning
⚠ CAUTION	Ignoring the given directions could possibly result in personal injury or property damage.

- Be sure you have read and understood all instructions and operating instructions before using the instrument. Failure to follow these safety rules and instructions may result in laser radiation hazards, or personal injury.
- **DO NOT** attempt in any way to alter the components of the laser device.
- This instrument emits laser radiation. Do not stare into the laser or aim the laser at people or animals.
- Any operation, adjustment, or procedure beyond the instructions described herein may cause serious laser-induced radiation damage.
- This instrument contains a laser generator, which can generate light waves of Class 2 laser radiation and wavelength of 635 nm, with maximum output laser power up to 1 W. Laser beams under this class normally do not cause optical damage.
- The warning label is on the back of the instrument and the triangle mark atop the label indicates the laser beam emitting location.



⚠ **IMPORTANT!** People wearing prescription glasses or contact lenses should be extra careful when around laser emitting equipment.

⚠ **CAUTION! NEVER** attempt to repair the product yourself. In case of damage, contact a local dealer.

⚠ **IMPORTANT!** Changes or modifications not expressly approved could void the user's authority to operate the equipment.

⚠ **CAUTION! DO NOT** use the product in explosion hazardous areas or in aggressive environments.

DO'S AND DO NOT'S

- **DO NOT** tear off or deface warning labels appearing on this instrument.
- **DO** keep the instrument in a safe place inaccessible to children.
- **DO NOT** allow children to play with or operate this instrument.
- **DO NOT** point the laser beam at any reflective object or surface.
- **DO** turn off the instrument whenever it is not in use. Failure to do so will increase the possibility of inadvertently looking directly at the laser beam.
- **DO NOT** attempt to alter the components of the laser beam, as it may expose you to severe laser radiation.
- **DO NOT** attempt to repair or disassemble this instrument. Non-authorized repair of this instrument may cause serious laser-induced radiation harm. Any repair must be done by a licensed technician.
- **DO NOT** use this instrument in a place where inflammables such as flammable liquids, gases and dusts exist.
- **DO** use only genuine parts to ensure the normal operation of the instrument.
- **DO** store batteries from the instrument in a place out of the reach of children.

BATTERIES:

- **ALWAYS** use AAA Alkaline batteries only.
- **ALWAYS** replace all depleted batteries at the same time.
- **DO NOT** store or use in locations where the temperature may reach or exceed 105°F (40.5°C) such as outside sheds or metal buildings in summer. For best life, store in a cool, dry location.
- **DO NOT** charge non-rechargeable batteries.
- **DO NOT** mix old and new batteries, or different brands of batteries.
- **DO NOT** throw batteries into the fire, as they will explode, and cause serious damage or personal injury.
- **DO NOT** use wet or moist batteries.
- **ALWAYS** when inserting batteries,

observe their polarity.

- **DO NOT** throw batteries into the trash bin.
- **DO NOT** charge non-rechargeable batteries.
- **ALWAYS** remove batteries if the tool will not be used for an extended period.

When using or replacing batteries, **ALWAYS** follow the instructions od the battery manufacturer.

POLLUTION DEGREE 2

⚠ **IMPORTANT!** Recycle used batteries and equipment properly. Contact your area's waste management center for proper disposal directions.

2. SPECIFICATIONS

The TB-H2-LM-165-BT ToughBuilt® is an up-to-date 165 ft Bluetooth® Laser Distance Measurer tool capable of measuring and calculating lenght, area, volume and Lenght (calc.) at indoor or outdoors (low light or shade conditions).

Recommended Operating environment	Indoor,0%-80%RH Elevation of 0m~2000m
Range	2 in to 165 ft. (0.05 m to 50.2 m)
Laser Light Color	Red
Laser Safety Class	Class 2, <1 mW
Laser Type	630~680 nm, <1 mW
Accuracy*	±5/64 in @ 165 ft (±2 mm @ 50.2 m)
Operating Temperature	+32 °F ~ 104 °F (0 °C ~ 40 °C)
Storage Temperature	-4 °F ~ 140 °F (-20 °C ~ 60 °C)
Power Source	2 x AAA Alkaline batteries
Tripod Receptacle	1/4 in – 20 Threads
Operating Time	30 min, no camera on
Memory (number of stored measurements)	30
Display Resolution	240 x 320 pixels
Display Type	LCD
Unit Off Timer	5 min
Display Dim Timer	20 s
Display Off Timer	30 s
Laser Off Timer	20 s
Measurements (L x W x H)	1.93 x 1.28 x 6.0 in (49 x 32.6 x 152.4 mm)
Weight (without batteries)	0.3 lb (0.14 kg)

*** Measuring Accuracy** depends on the current conditions: Under favorable conditions (good target surface and room temperature) up to 165 ft (50.2 m). Under unfavorable conditions (bright sunlight, a very weak reflecting target surface, or large temperature fluctuations), the error can increase by ±0.003 in/ft (±0.25 mm/m) or for distances over 165 ft (50.2 m).

Modes and Functions	
Bluetooth®	Bluetooth® 5.0 (Classic and Low Energy)
Memory Function	Yes
Built-in inclinometer	Yes
Digital View Finder	Yes
View Finder Camera	Yes (digital zoom to 4x)
Measuring Functions	13
Add/Subtract Measurements	Yes
Continuous Measurement Mode	Yes
Length Measurement Mode	Yes
Area Measurement Mode	Yes
Volume Measurement Mode	Yes
Length (Calc.)	Yes
Height (Calc.)	Yes
Height 2PT. Measurement Mode	Yes
Stake Out Measurement Mode	Yes
Trapezoid (1) Measurement Mode	Yes
Trapezoid (2) Measurement Mode	Yes
Circle Area Measurement Mode	Yes
Cylinder Volume Measurement Mode	Yes
Level Measurement Mode	Yes

SOME INTENDED USES

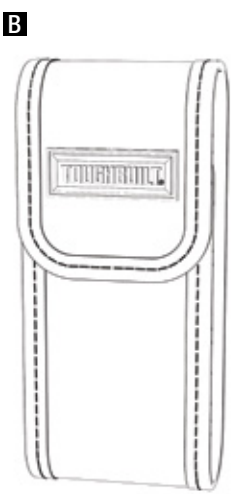
Architects	DIYers	Plumbers
Carpenters	Electricians	Real Estate Agents
Carpet and flooring	General Contactors	Remodelers
Decorators	HVAC	Etc.
Designers	Painters	

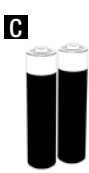
3. WHAT IS IN THE BOX

A **1** x 165' Laser Distance Measurer

B **1** x Soft Pouch

C **2** x AAA Alkaline Batteries



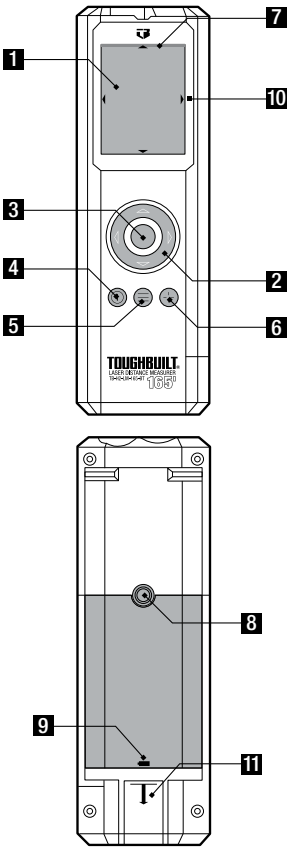


4. SET UP AND ASSEMBLY

To set up the tool:

- Inspect the box for any damage.
- Remove all the contents of the box and lay them on a flat, clean, and dry surface. Check the contents against the packaging list, and familiarize yourself with their names.
- Open the manual and write the requested information on the Registration Form found at the end of the manual. Keep this information at a safe location. **When contacting ToughBuilt® Industries Inc. for assistance or for possible warranty claims, the information on the registration for would be required.**
- Keep the box for storing the instrument.
- Read, study and familiarize yourself with all aspects of this manual before attempting to power the unit on.
- The work area should be clear of any obstructions.
- Any surface surface where the Laser Measurer is to be placed shall be solid, level, and stable.
- A tripod, a pole or any other tool onto which this Laser Measurer would be mounted should be able to support its weight safely.
- When using a tripod, the legs should be placed on hard/solid surface to prevent shifting or sinking. Make sure to extend and lock all the legs, and secure the tool to the mounting hardware. **DO NOT** over tighten the mounting screw.
- **DO NOT USE IF DAMAGED.**
- **ALWAYS STAY ALERT AND USE COMMON SENSE.** Follow all safety warnings and precautions in the manual as well as those on the product.
- **AVOID** distractions.
- Before turning the unit on, **ALWAYS** familiarize yourself with the controls, and their function before use.
- **DO NOT** open or dismantle the laser unit, or attempt to make modifications to the unit. Personal and property damage may occur.
- **DO NOT** force any component to do a job. If it does not move, there might be a reason.

5. OPERATIONS



GENERAL INFORMATION:
Product controls identification:

1 Digital Display

2 Navigation Buttons: Up/Down/Right/Left

3 Action Button

4 ON/OFF Button

5 Menu Button

6 ViewFinder Button

7 Laser-ON Indicator

8 Tripod Mount

9 Battery Door Latch

10 Display Arrows: Up/Down/Right/Left

11 Stand-Off / Zero Point Mode

POWER ON AND OFF

To turn the power ON:

1. Press the Power Button **4**.

To turn the power OFF:

1. Press and hold the Power Button **4** for 2 s.

VIEWFINDER FEATURE

⚠ **IMPORTANT!** Ensure that the laser is always pointed in a safe direction and away from people and eyes.

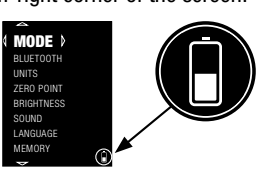
To use the ViewFinder:

1. The ViewFinder feature is available in all Measurement Modes with the exception of Stake Out and Level and is activated by pressing the ViewFinder Button **6**.
2. Each mode will function as normal but provide a real-time camera feed of the target area.
3. To change the Zoom Level, press the Right Button to cycle through 1x, 2x, 3x and 4x
4. To exit the ViewFinder and return to the regular Measurement Mode, press the ViewFinder Button **6**.

BATTERY AND BLUETOOTH STATUS

To view Battery status:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. The Battery level will be shown in the bottom-right corner of the screen.



To view Bluetooth status:

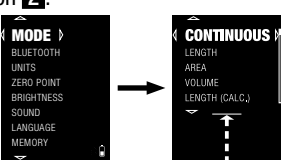
1. Press the Menu Button **5**. The Main Menu will be displayed.
2. If Bluetooth communication is turned ON, a Bluetooth icon will be shown in the bottom-right corner of the screen. If Bluetooth communication is turned OFF, the icon will not appear.

CONTINUOUS MEASUREMENT

This mode allows the user to take real-time distance measurements and record the minimum and maximum distances that have been measured.

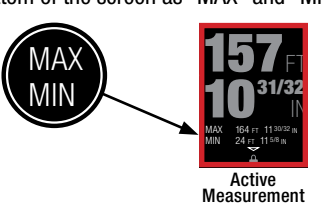
To enter Continuous Measurement Mode:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button or Down Button **2** to highlight the Continuous option.
5. Select the Continuous Measurement Mode by pressing the Action Button **3** or Right Button **2**.



To use Continuous Measurement Mode:

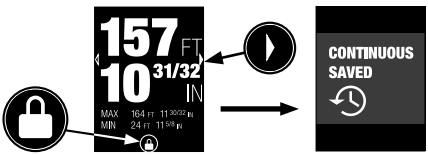
1. The Continuous Measurement Mode will be displayed on the screen **1** and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The Active Measurement will blink twice then real-time distance measurements will be taken. The Maximum and Minimum distances recorded will be displayed at the bottom of the screen as “MAX” and “MIN”.



Active Measurement

3. To Lock the Active Measurement, laser-mark the desired target then press the Action Button **3**.
4. The Lock Icon will appear at the bottom of the screen and the Active Measurement will briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will appear on the right side of the screen, midway up.
5. To save the Locked Active Measurement, press the Right Button **2**. An overlay will appear displaying that the Continuous

Measurement has been saved and will be available in the Memory Menu.



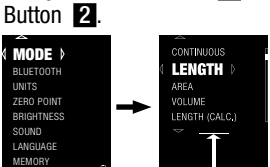
6. To Unlock the Active Measurement and return to taking real-time measurements, press the Action Button **3**.
7. To clear the Active Measurement, "MIN" and "MAX", press the Left Button **2**. All values will return to zero.

LENGTH MEASUREMENT

This mode allows the user to take Length measurements and add or subtract additional distances.

<u>To enter Length Measurement Mode:</u>

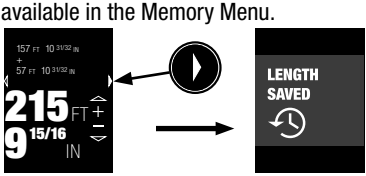
1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button or Down Button **2** to highlight the Length option.
5. Select the Length Measurement Mode by pressing the Action Button **3** or Right Button **2**.



<u>To use Length Measurement Mode:</u>

1. The Length Measurement Mode will be displayed on the screen and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The Active Measurement will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.

3. After the new measurement is taken, the Active Measurement will briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will appear on the right side of the screen, midway up.
4. To save the Active Measurement, press the Right Button **2**. An overlay will appear displaying that the Length Measurement has been saved and will be available in the Memory Menu.



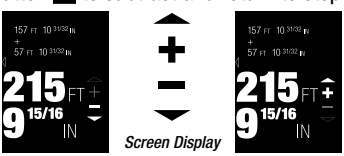
5. To take additional measurements, press the Action Button **3**. The Active Measurement will be zeroed and blink, return to step 2. Up to three previous measurements will be retained below the Active Measurement.
6. To add or subtract another Length Measurement from the mathematical Result, press the Up Button **2** to add or the Down Button **2** to subtract and proceed to the Length Calculator instructions below.

<u>To use the Length Calculator:</u>

1. The previous result will be displayed at the top of the screen. Below this will be the selected mathematical function, either a plus or a minus. This function can be changed at any point by pressing the Up Button **2** or Down Button, **2** whichever is active. Below the function the Active Measurement will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
2. After the new measurement is taken, the Active Measurement will briefly flash yellow then turn white. At the bottom of the screen, the mathematical Result will briefly flash yellow then turn white. The Save Arrow will also appear.
3. To save the mathematical Result, press the Right Button **2**. An overlay will appear displaying that the Length Measurement

has been saved and will be available in the Memory Menu.

4. To exit the Length Calculator and take individual measurements, press the Action Button **3**.
5. To add or subtract another Length Measurement from the mathematical Result, press the Up Button **2** to add or the Down Button **2** to subtract and return to step 1.

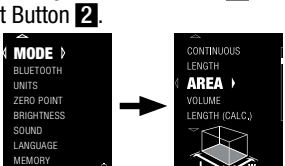


AREA MEASUREMENT MODE

This mode allows the user to take Length and Width measurements of a two-dimensional rectangular plane and calculates the area.

To enter Area Measurement Mode:

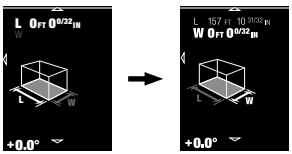
1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button or Down Button **2** to highlight the Area option.
5. Select the Area Measurement Mode by pressing the Action Button **3** or Right Button **2**.



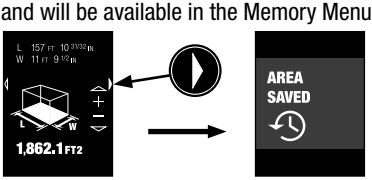
To use Area Measurement Mode:

1. The Area Measurement Mode will be displayed on the screen and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The Length "L" Active Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
3. After the new measurement is taken, the Length Active Measurement, corresponding Icon Arrow and Labels will briefly flash yellow then turn white. The first edge of the Area rectangle is now defined.

4. The Width "W" Active Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.



5. After the new measurement is taken, the Width Active Measurement, corresponding Icon Arrow and Labels will briefly flash yellow then turn white. The second edge of the Area rectangle is now defined. At the bottom of the screen, the Area value will appear, briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will also appear.
6. To save the Area value, press the Right Button **2**. An overlay will appear displaying that the Area Measurement has been saved and will be available in the Memory Menu.



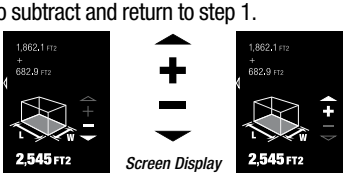
7. To begin measuring a new Area, press the Action Button **3**. The screen will return to step 2.
8. To add or subtract another Area Measurement from the current Area value, press the Up Button **2** to add or the Down Button **2** to subtract and proceed to the Area Calculator instructions below.

<u>To use the Area Calculator:</u>

1. The previous Area value will be displayed at the top of the screen. Below this will be the selected mathematical function, either a plus or a minus. This function can be changed at any point by pressing the Up Button or Down Button **2**, whichever is active. Below the function the Length Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
2. After the new measurement is taken, the Length "L" Active Measurement,

corresponding Icon Arrow and Labels will briefly flash yellow then turn white. The first edge of the Area rectangle is now defined.

3. Now the Width "W" Active Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
4. After the new measurement is taken, the Width Active Measurement, corresponding Icon Arrow and Labels will briefly flash yellow then turn white. The second edge of the Area rectangle is now defined. At the bottom of the screen, the mathematical Result will briefly flash yellow then turn white. The Save Arrow will also appear.
5. To save the mathematical Result, press the Right Button **2**. An overlay will appear displaying that the Area Measurement has been saved and will be available in the Memory Menu.
6. To exit the Area Calculator and return to measuring individual Areas, press the Action Button **3**.
7. To add or subtract another Area Measurement from the mathematical Result, press the Up Button **2** to add or the Down Button **2** to subtract and return to step 1.



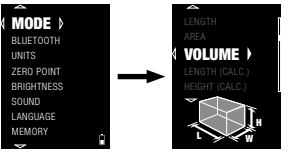
Screen Display

VOLUME MEASUREMENT MODE

This mode allows the user to take Length, Width and Height measurements of a three-dimensional cuboid and calculates the volume.

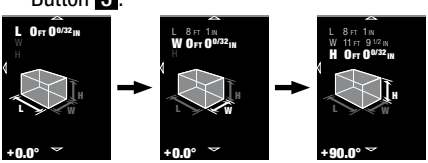
To enter Volume Measurement Mode:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button **2** or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**
4. Use the Up Button **2** or Down Button **2** to highlight the Volume option.
5. Select the Volume Measurement Mode by pressing the Action Button **3** or Right Button **2**.



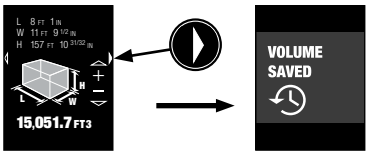
To use Volume Measurement Mode:

1. The Volume Measurement Mode will be displayed on the screen and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The Length "L" Active Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
3. After the new measurement is taken, the Length Active Measurement, corresponding Icon Arrow and Labels will briefly flash yellow then turn white. The first edge of the Volume cuboid is now defined.
4. The Width "W" Active Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
5. After the new measurement is taken, the Width Active Measurement, corresponding Icon Arrow and Labels will briefly flash yellow then turn white. The second edge of the Volume Cuboid is now defined.
6. The Height "H" Active Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.



7. After the new measurement is taken, the Height Active Measurement, corresponding Icon Arrow and Labels will briefly flash yellow then turn white. The third edge of the Volume cuboid is now defined. At the bottom of the screen, the Volume value will appear, briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will also appear.
8. To save the Volume value, press the Right Button **2**. An overlay will appear displaying

that the Volume Measurement has been saved and will be available in the Memory Menu.



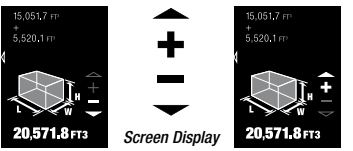
9. To begin measuring a new Volume, press the Action Button **3**. The screen will return to step 2.
10. To add or subtract another Volume Measurement from the current Volume value, press the Up Button **2** to add or the Down Button **2** to subtract and proceed to the Volume Calculator instructions below.

<u>To use the Volume Calculator:</u>

1. The previous Volume value will be displayed at the top of the screen. Below this will be the selected mathematical function, either a plus or a minus. This function can be changed at any point by pressing the Up Button **2** or Down Button **2**, whichever is active. Below the function the Length "L" Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
2. After the new measurement is taken, the Length Active Measurement, corresponding Icon Arrow and Labels will briefly flash yellow then turn white.
3. Now the Width "W" Active Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
4. After the new measurement is taken, the Width Active Measurement, corresponding Icon Arrow and Labels will briefly flash yellow then turn white.
5. Now the Height "H" Active Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
6. After the new measurement is taken, the Height Active Measurement, corresponding Icon Arrow and Labels will briefly flash yellow then turn white. At the bottom of the screen, the mathematical Result will briefly flash yellow then turn white. The Save

Arrow will also appear.

7. To save the mathematical Result, press the Right Button **2**. An overlay will appear displaying that the Area Measurement has been saved and will be available in the Memory Menu.
8. To exit the Volume Calculator and return to measuring individual Volumes, press the Action Button **3**.
9. To add or subtract another Volume Measurement from the mathematical Result, press the Up Button **2** to add or the Down Button **2** to subtract and return to step 1.

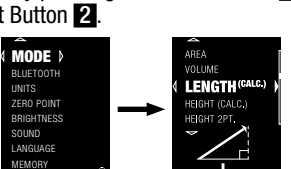


LENGTH (CALC.) MEASUREMENT

This mode allows the user to laser-mark a target and calculates the horizontal Length between the unit and the target.

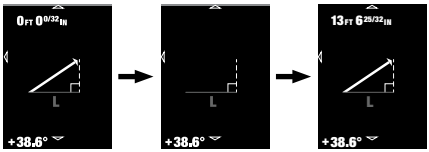
<u>To enter Length (Calc.) Measurement Mode:</u>

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button **2** or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button **2** or Down Button **2** to highlight the Length (Calc.) option.
5. Select the Length (Calc.) Measurement Mode by pressing the Action Button **3** or Right Button **2**.

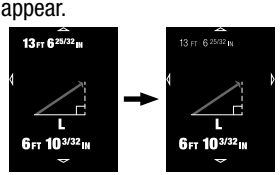


<u>To use Length (Calc.) Measurement Mode:</u>

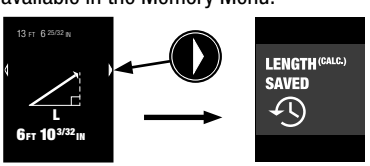
1. The Length (Calc.) Measurement Mode will be displayed on the screen and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The Active Measurement will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.



3. After the new measurement is taken, the Active Measurement will briefly flash yellow then turn white. At the bottom of the screen, the Length (Calc.) value will appear, briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will also appear.



4. To save the Length (Calc.) value, press the Right Button **2**. An overlay will appear displaying that the Length (Calc.) Measurement has been saved and will be available in the Memory Menu.



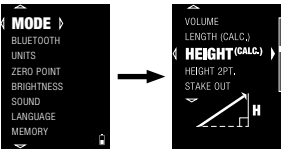
5. To take additional measurements, press the Action Button **3**. The Active Measurement will be zeroed and blink, return to step 2.

HEIGHT (CALC.) MEASUREMENT

This mode allows the user to laser-mark a target and calculates the vertical Height between the unit and the target.

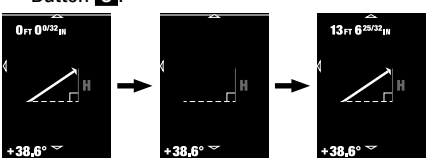
To enter Height (Calc.) Measurement Mode:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button **2** or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button **2** or Down Button **2** to highlight the Height (Calc.) option
5. Select the Height (Calc.) Measurement Mode by pressing the Action Button **3** or Right Button **2**.

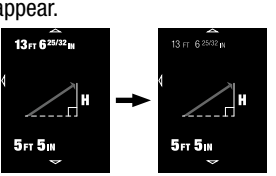


To use Height (Calc.) Measurement Mode:

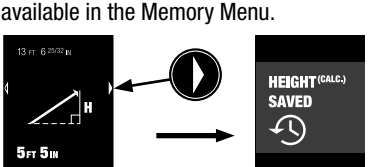
1. The Height (Calc.) Measurement Mode will be displayed on the screen and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The Active Measurement will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.



3. After the new measurement is taken, the Active Measurement will briefly flash yellow then turn white. At the bottom of the screen, the Height (Calc.) value will appear, briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will also appear.



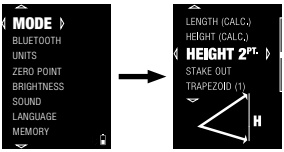
4. To save the Height (Calc.) value, press the Right Button **2**. An overlay will appear displaying that the Height (Calc.) Measurement has been saved and will be available in the Memory Menu.



5. To take additional measurements, press the Action Button **3**. The Active Measurement will be zeroed and blink, return to step 2.

HEIGHT 2PT. MEASUREMENT

This mode allows the user to laser-mark two targets and calculates the vertical Height between the two targets.

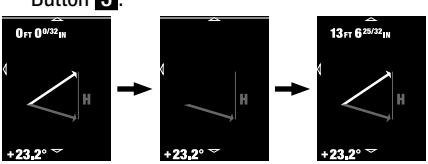


To enter Height 2PT. Measurement Mode:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button **2** or Down Button **2** to highlight the Height 2PT. option.
5. Select the Height 2PT. Measurement Mode by pressing the Action Button **3** or Right Button **2**.

To use Height 2PT. Measurement Mode:

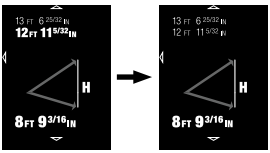
1. The Height 2PT. Measurement Mode will be displayed on the screen and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The first Active Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.



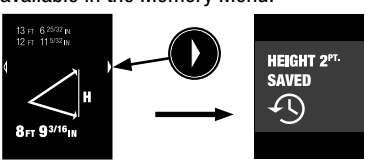
3. After the new measurement is taken, the Active Measurement will briefly flash yellow then turn white.
4. Now the second Active Measurement will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.

5. After the new measurement is taken, the Active Measurement and corresponding Icon Arrow will briefly flash yellow then turn white. At the bottom of the screen, the Height 2PT. value will appear, briefly flash

yellow then turn white. The Save Arrow (Green, right-facing arrow) will also appear.



6. To save the Height 2PT. value, press the Right Button **2**. An overlay will appear displaying that the Height 2PT. Measurement has been saved and will be available in the Memory Menu.



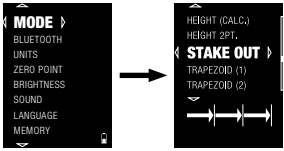
7. To take additional measurements, press the Action Button **3**. The first Active Measurement will be zeroed and blink and the other values will be cleared, return to step 2.

Stake Out Measurement

This mode allows the user to enter interval distances, take an overall distance measurement then move the unit along the overall distance and mark interval distances along the way.

To enter Stake Out Measurement Mode:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button **2** or Down Button **2** to highlight the Stake Out option.
5. Select the Stake Out Measurement Mode by pressing the Action Button **3** or Right Button **2**.

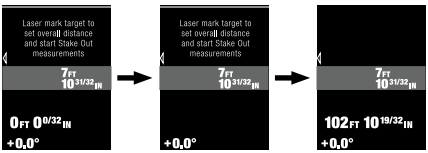


To use Stake Out Measurement Mode:

1. The Interval Distance screen will be displayed and the Active Value will blink until the Up Button **2** or Down Button are

used to scroll to the desired value. Press the Action Button **3** or Right Button **2** to set the value and it will briefly flash yellow then turn white and the next value will be selected. Repeat this step until all values are set.

2. The Overall Distance screen will now be displayed and the laser will be armed as indicated by the Laser ON Indicator **7**. The Interval Distance will be displayed midway up the screen and the Overall Distance will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.



3. After the Overall Distance measurement is taken, the value will briefly flash yellow then turn white, the Stake Out screen will be displayed and the laser will be armed as indicated by the Laser ON Indicator **7**.
4. The screen will display a dynamic scale that will move as you move the unit towards the Overall Distance target and will update the Overall Distance in real-time.
5. If the Interval Distance instances fall outside of the screen, the Overall Distance will continue to update in real-time as you move and, in the middle of the screen, the progress between Interval Distance instances will be displayed. This number decreases as you move towards the next Interval Distance instance and grows larger as you move backwards to the last Interval Distance instance.
6. As you approach each Interval Distance, it will be represented by a yellow, pointed bar displaying the instance number and the Interval Distance. This bar will move dynamically across the screen and markings should be made in-line with its points.

7. To change the Interval Distance, press the Left button **2** to return to the Interval

Distance Screen and repeat step 1.

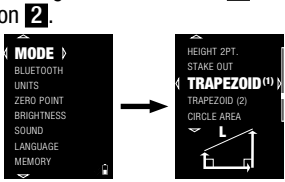
8. To clear and set a new Overall Distance, press the Down Button **2**. You will be prompted to either Clear the Overall Distance or Cancel to return to the previous screen. Use the Up Button **2** or Down Button **2** to highlight the desired option then use the Action Button **3** to select it. After choosing to confirm the Clear, return to step 2.

TRAPEZOID (1) MEASUREMENT

This mode allows the user to take three measurements to define one base and two legs of a right trapezoid and calculates the length and angle of the top base edge.

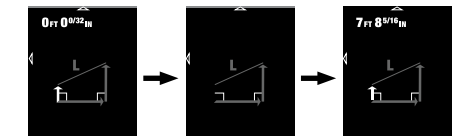
<u>To enter Trapezoid (1) Measurement Mode:</u>

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button **2** or Down Button **2** to highlight the Trapezoid (1) option.
5. Select the Trapezoid (1) Measurement Mode by pressing the Action Button **3** or Right Button **2**.

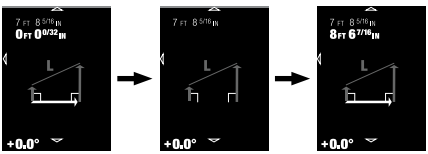


<u>To use Trapezoid (1) Measurement Mode:</u>

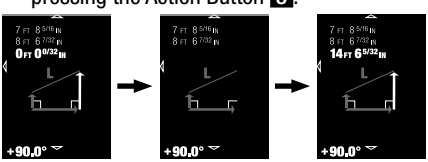
1. The Trapezoid (1) Measurement Mode will be displayed on the screen and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The first Active Measurement, a vertical leg, and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
3. After the new measurement is taken, the Active Measurement will briefly flash yellow then turn white.



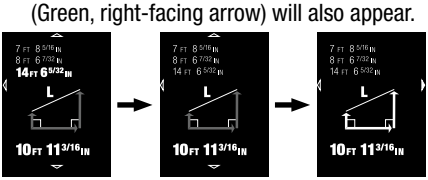
4. Now the second Active Measurement, a horizontal base, and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
5. After the new measurement is taken, the Active Measurement will briefly flash yellow then turn white.



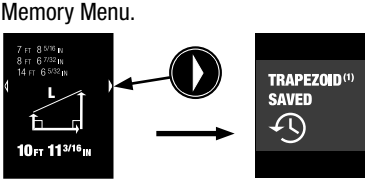
6. Now the third Active Measurement, a vertical leg, and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.



7. After the new measurement is taken, the Active Measurement and corresponding Icon Arrow will briefly flash yellow then turn white. At the bottom of the screen, the Trapezoid (1) value will appear, briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will also appear.



8. To save the Trapezoid (1) value, press the Right Button **2**. An overlay will appear displaying that the Trapezoid (1) Measurement has been saved and will be available in the Memory Menu.



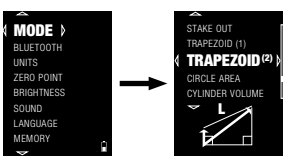
9. To take additional measurements, press the Action Button **3**. The first Active Measurement will be zeroed and blink and the other values will be cleared, return to step 2.

TRAPEZOID (2) MEASUREMENT

This mode allows the user to take two measurements to define two legs of a triangle and calculates the length and angle of the third leg edge.

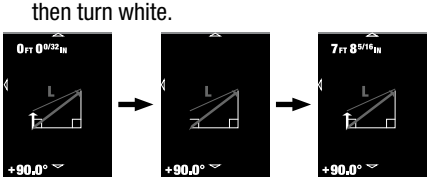
To enter Trapezoid (2) Measurement Mode:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button or Down Button **2** to highlight the Trapezoid (2) option.
5. Select the Trapezoid (2) Measurement Mode by pressing the Action Button **3** or Right Button.

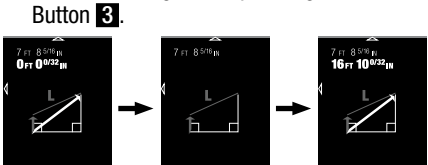


To use Trapezoid (2) Measurement Mode:

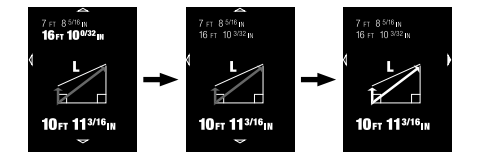
1. The Trapezoid (2) Measurement Mode will be displayed on the screen and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The first Active Measurement, a vertical leg, and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.
3. After the new measurement is taken, the Active Measurement will briefly flash yellow then turn white.



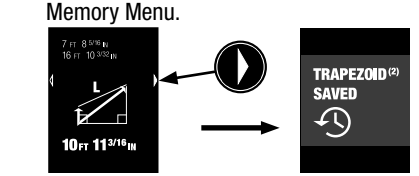
4. Now the second Active Measurement, a leg, and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.



5. After the new measurement is taken, the Active Measurement and corresponding Icon Arrow will briefly flash yellow then turn white. At the bottom of the screen, the Trapezoid (2) value will appear, briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will also appear.



6. To save the Trapezoid (2) value, press the Right Button **2**. An overlay will appear displaying that the Trapezoid (2) Measurement has been saved and will be available in the Memory Menu.



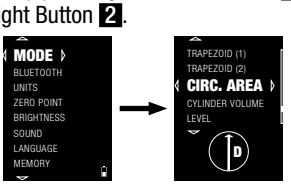
7. To take additional measurements, press the Action Button **3**. The first Active Measurement will be zeroed and blink and the other values will be cleared, return to step 2.

CIRCLE AREA MEASUREMENT

This mode allows the user to take a distance measurement to define a circular diameter and calculates the area.

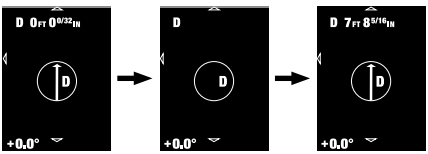
<u>To enter Circle Area Measurement Mode:</u>

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button or Down Button **2** to highlight the Circle Area option.
5. Select the Circle Area Measurement Mode by pressing the Action Button **3** or Right Button **2**.

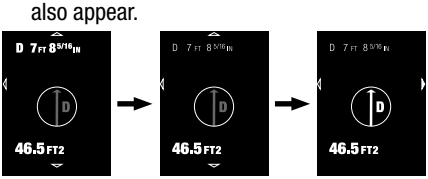


To use Circle Area Measurement Mode:

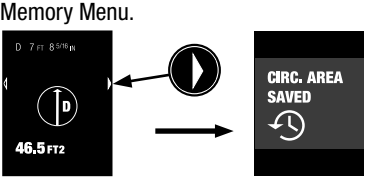
1. The Circle Area Measurement Mode will be displayed on the screen and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The Diameter Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.



3. After the new measurement is taken, the Diameter Measurement and corresponding Icon Arrow will briefly flash yellow then turn white. At the bottom of the screen, the Circle Area value will appear, briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will also appear.



4. To save the Circle Area value, press the Right Button **2**. An overlay will appear displaying that the Circular Area Measurement has been saved and will be available in the Memory Menu.



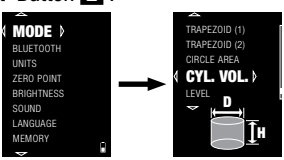
5. To take additional measurements, press the Action Button **3**. The Diameter Measurement will be zeroed and blink and the other values will be cleared, return to step 2.

CYLINDER VOLUME MEASUREMENT

This mode allows the user to take two distance measurements to define the circular diameter and height of a cylinder and calculates the volume.

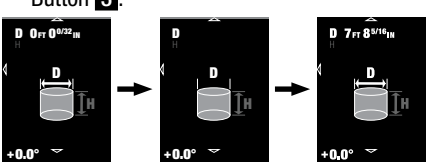
To enter Cylinder Volume Measurement Mode:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2** .
4. Use the Up Button or Down Button **2** to highlight the Cylinder Volume option.
5. Select the Cylinder Volume Measurement Mode by pressing the Action Button **3** or Right Button **2** .

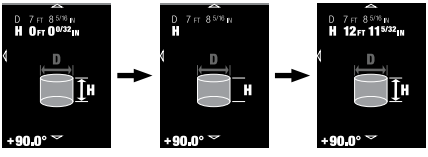


To use Cylinder Volume Measurement Mode:

1. The Cylinder Volume Measurement Mode will be displayed on the screen and the laser will be armed as indicated by the Laser ON Indicator **7**.
2. The Diameter Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.

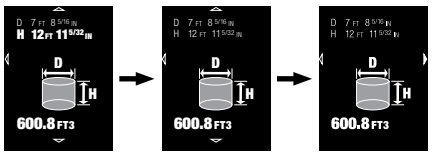


3. After the new measurement is taken, the Diameter Measurement and corresponding Icon Arrow will briefly flash yellow then turn white.
4. The Height Measurement and corresponding Icon Arrow will blink until a measurement is taken by laser-marking the desired target then pressing the Action Button **3**.

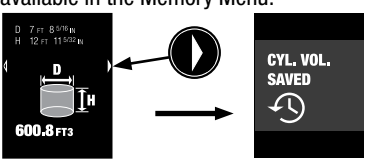


5. After the new measurement is taken, the Height Measurement and corresponding Icon Arrow will briefly flash yellow then turn white. At the bottom of the screen, the Cylinder Volume value will appear, briefly

flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will also appear.



6. To save the Cylinder Volume value, press the Right Button. An overlay will appear displaying that the Cylinder Volume Measurement has been saved and will be available in the Memory Menu.



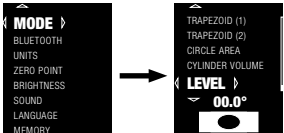
7. To take additional measurements, press the Action Button **3**. The Diameter Measurement will be zeroed and blink and the other values will be cleared, return to step 2.

LEVEL MEASUREMENT

This mode allows the user to take Linear and Bull's Eye Level Measurements.

<u>To enter Level Measurement Mode:</u>

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.
4. Use the Up Button or Down Button **2** to highlight the Level option.
5. Select the Level Measurement Mode by pressing the Action Button **3** or Right Button **2**.

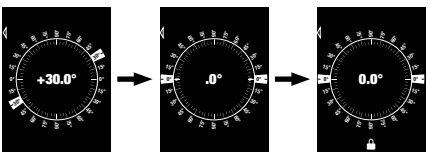


<u>To use Vertical Linear Level Measurement Mode:</u>

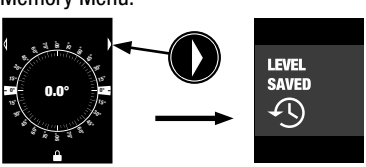
1. When the unit is in a vertical orientation +/- 45º degrees, Vertical Level Measurement Mode will be displayed on the screen. The level will rotate around the degree dial and

the Active Measurement is displayed in the center of the screen. When you reach zero degrees, the Level and dial perimeter will turn from yellow to green.

2. To Lock the Active Measurement, press the Action Button **3**.



3. The Lock Icon will appear at the bottom of the screen and the Active Measurement will briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will appear on the right side of the screen.
4. To save the Locked Active Measurement, press the Right Button **2**. An overlay will appear displaying that the Level Measurement has been saved and will be available in the Memory Menu.



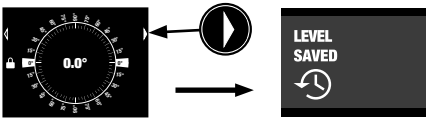
5. To Unlock the Active Measurement and return to taking real-time measurements, press the Action Button **3**.

<u>To use Horizontal Linear Level Measurement Mode:</u>

1. When the unit is in a horizontal orientation +/- 45º degrees, Horizontal Level Measurement Mode will be displayed on the screen. The level will rotate around the degree dial and the Active Measurement is displayed in the center of the screen. When you reach zero degrees, the Level and dial perimeter will turn from yellow to green.
2. To Lock the Active Measurement, press the Action Button **3**.

3. The Lock Icon will appear at the bottom of the screen and the Active Measurement will briefly flash yellow then turn white. The Save Arrow (Green, right-facing arrow) will appear on the right side of the screen.
4. To save the Locked Active Measurement,

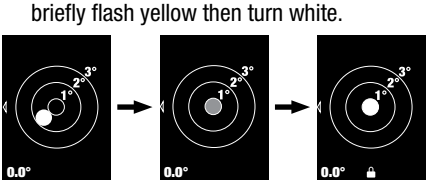
press the Right Button **2**. An overlay will appear displaying that the Level Measurement has been saved and will be available in the Memory Menu.



5. To Unlock the Active Measurement and return to taking real-time measurements, press the Action Button **3**.

<u>To use Bull's Eye Level Measurement Mode:</u>

1. When the unit is laid on its back, Bull's Eye Level Measurement Mode will be displayed on the screen. As the unit is tilted, the bubble will move across the degree rings and the Active Measurement will be displayed in the bottom-left corner of the screen. When you reach zero degrees, the bubble will turn from yellow to green. If the bubble travels outside of the degree rings, its direction will be marked by an arrow.
2. To Lock the Active Measurement, press the Action Button **3**.
3. The Lock Icon will appear at the bottom of the screen and the Active Measurement will briefly flash yellow then turn white.



4. To Unlock the Active Measurement and return to taking real-time measurements, press the Action Button **3**.

MENU TREE

The Menu Tree is accessed by pressing the Menu Button **5**. Selections are made with either the Action Button **3**, the Right Button **2** or both, depending upon the active screen. The Left Button **2** is used to return to the previous screen and to exit the Main Menu screen to the current Mode screen. When in any Menu or Sub-Menu screen, pressing the Menu Button **5** will exit to the current Mode screen.

1. MAIN MENU

- **a. Mode**
  - i. Continuous
  - ii. Length
  - iii. Area
  - iv. Volume
  - v. Length (Calc.)
  - vi. Height (Calc.)
  - vii. Height 2PT.
  - viii. Stake Out
  - ix. Trapezoid (1)
  - x. Trapezoid (2)
  - xi. Circle Area
  - xii. Cylinder Volume
  - xiii. Level
- **b. Bluetooth®**
  - i. On
  - ii. Off
- **c. Units**
  - i. FT IN Frac.
    1. 1/32 IN
    2. 1/16 IN
    3. 1/8 IN
    4. 1/4 IN
    5. 1/2 IN
    6. 1 IN
  - ii. FT IN Dec.
    1. .0 IN
    2. .00 IN
  - iii. MM/CM/M
    1. 1 MM
    2. .0 CM
    3. .000M
- **d. Zero Point**
  - i. Front
  - ii. Mount
  - iii. Rear
  - iv. Stand Off

e. Brightness

i. 10%
ii. 20%
iii. 30%
iv. 40%
v. 50%
vi. 60%
vii. 70%
viii. 80%
ix. 90%
x. 100%

f. Sound

i. OFF
ii. MIN
iii. MID
iv. MAX

g. Language

i. English
ii. Español
iii. Français

h. Memory

MODE MENU
The Mode Menu is used to select the desired Measurement Mode.

To enter the Mode Menu:
1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Mode option.
3. Select the Mode option by pressing the Action Button **3** or Right Button **2**.

To use the Mode Menu:
1. Use the Up Button or Down Button **2** to high light the desired Measurement Mode.
2. Select the Measurement Mode option by pressing the Action Button **3** or Right Button **2**.

BLUETOOTH® MENU
The Bluetooth Menu is used to turn Bluetooth communication on and off. When not needed, turning Bluetooth communication off uses less battery power.

To enter the Bluetooth® Menu:
1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Bluetooth® option.
3. Select the Bluetooth® option by pressing the Action Button **3** or Right Button **2**.

To use the Bluetooth® Menu:
1. To turn Bluetooth® communication ON or OFF, press the Action Button **3**. The new selection will briefly flash yellow then turn white and the toggle bar will change to reflect the selection.
2. To connect the unit to your smart device, ensure that the unit's Bluetooth® communication is turned ON. Search for Bluetooth® devices on your smart device and connect to "ToughBuilt 165' Laser". Once successfully connected, an overlay stating Device Connected will briefly flash.

UNITS MENU
The Units Menu is used to select the desired type and precision of measurement units.

To enter the Units Menu:
1. Press the Menu Button **5**. The Main Menu

will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Units option.
3. Select the Units option by pressing the Action Button **3** or Right Button **2**.

To use the Units Menu:
1. Use the Up Button or Down Button **2** to highlight the desired Unit Type.
2. Select the desired Unit Type by pressing the Action Button **3** or Right Button **2**. The selected Type will briefly flash yellow then the Unit Precision screen will be displayed.
3. Use the Up Button or Down Button **2** to highlight the desired Unit Precision.
4. Select the desired Unit Precision by pressing the Action Button **3** or Right Button **2**.

ZERO POINT MENU

The Zero Point Menu allows the user to set the datum from which measurements will be based.

To enter the Zero Point Menu:
1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Zero Point option.
3. Select the Zero Point option by pressing the Action Button **3** or Right Button **2**.

To use the Zero Point Menu:
1. Use the Up Button or Down Button **2** to highlight the desired Zero Point option.
2. Select the desired Zero Point option by pressing the Action Button **3** or Right Button **2**. The yellow graphical elements of the selected option will briefly flash white then turn yellow.
   NOTE: On certain measurement screens (if the Up and Down Arrows **10** appear as below), the Zero Point can also be changed by pressing the Up Button or Down Button **2**, cycling through the options then pressing the Left Button **2** to return to the previous screen.

BRIGHTNESS MENU

The Brightness Menu allows the user to set the Brightness level of display from 10% to 100% in increments of 10.

To enter the Brightness Menu:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Brightness option.
3. Select the Brightness option by pressing the Action Button **3** or Right Button **2**.

To use the Brightness Menu:

1. Use the Up Button or Down Button **2** to change the display Brightness level.
2. When the display is at the desired Brightness level, press the Left Button **2** to back out of the Brightness Menu.

SOUND MENU

The Sound Menu allows the user to set the unit's sound level from 0% to 100% in increments of 10.

To enter the Sound Menu:

4. Press the Menu Button **5**. The Main Menu will be displayed.
5. Use the Up Button or Down Button **2** to highlight the Sound option.
6. Select the Sound option by pressing the Action Button **3** or Right Button **2**.

To use the Sound Menu:

3. Use the Up Button or Down Button **2** to change the unit's Sound level. With each change, the unit will make a beep sound to demonstrate the sound level.
4. When the display is at the desired Sound level, press the Left Button **2** to back out of the Sound Menu.

LANGUAGE MENU

The Language Menu allows the user to change the unit's language to English, Spanish or French.

To enter the Language Menu:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Language option.
3. Select the Language option by pressing the Action Button **3** or Right Button **2**.

To use the Language Menu:

1. Use the Up Button or Down Button **2** to highlight (large, bold font) the desired Language.
2. Select the desired Language by pressing the Action Button **3**. The selected option will turn yellow and will remain selected even if other options are highlighted.
3. To exit the language Menu, press the Left Button **2**.

MEMORY MENU

The Memory Menu allows the user to view up to 30 stored measurements.

To enter the Memory Menu:

1. Press the Menu Button **5**. The Main Menu will be displayed.
2. Use the Up Button or Down Button **2** to highlight the Memory option.
3. Select the Memory option by pressing the Action Button **3** or Right Button **2**.

To use the Memory Menu:

1. Use the Up Button or Down Button **2** to view saved measurements.
2. To clear a single measurement, press the Right Button **2**. You will be prompted to either Clear the stored measurement or Cancel to return to the previous screen. Use the Up Button or Down Button **2** to highlight the desired option then use the Action Button **3** to select it.
3. To clear all measurements, use the Up Button or Down Button **2** to highlight the Clear All option and press the Right Button **2**. You will be prompted to either Clear All stored measurements or Cancel to return to the previous screen. Use the Up Button or Down Button **2** to highlight the desired option then use the Action Button **3** to select it.

6. MAINTENANCE AND CARE

Before and after each use, thoroughly inspect the unit for possible damage.

⚠ **IMPORTANT! DO NOT** Use a Damaged Unit.

To ensure proper operation, please maintain the instrument as per the following instructions:

- **DO NOT** expose the instrument to a freezing or extremely hot environment, **NOR** subject it to external compression or long-time vibration.
- It is required to store the instrument indoors and place it back into its packing box when it is not in use.
- Keep the instrument away from dusty and damp environment. Use a clean, soft and moderately moist cloth which is soaked in clean water and then squeezed dry to wipe the instrument.
- **DO NOT** use any corrosive or volatile substance for cleaning. Take care of optical components (such as laser receiving lens and laser beam emitting port) as if they were spectacles or a camera lens. Use only lint free cloth to wipe the lens.
- **DO NOT** use paper towels. Optical components can only be wiped with a clean, soft and lint free cloth or cotton bud which is soaked in distilled water and then squeezed dry.
- **DO NOT** touch the lens of the instrument with hands or bare fingers.
- Check battery level of the instrument regularly. Remove the battery if the instrument will not be used for an extended period.
- When the battery level icon on the screen indicates that the battery is low or depleted, replace with a new batteries.
- **DO NOT** disassemble the instrument by yourself. Your unauthorized acts may lead to a laser-induced injury.Any tampering would automatically void all applicable warranties.
- **DO NOT** attempt to change any optical component installed on and attached to the lens of the instrument.

⚠ **IMPORTANT!** To assure product **SAFETY** and **RELIABILITY,** repairs, maintenance and adjustment (other than those listed in this manual) should be performed by authorized service centers or qualified service personnel, always using identical replacement parts.

Repairs should be carried out by an authorized-after-sales service center for ToughBuilt® Industries, Inc. tools.

Customer Service Number (US): 1 (800) 228-4695

ACCESSORIES:

⚠ **IMPORTANT!** To reduce the risk of injury, only ToughBuilt®, accessories should be used with this product. ToughBuilt® offers a large selection of accessories available at our local dealer at extra cost.

7. STORAGE

- **ALWAYS** store the item in its original container.
- Before storage, make sure the unit is turned off. **DO NOT** store a damp or wet unit.
- For extended storage, remove the batteries and store the instrument in a dry, cool place, out of reach of children.
- **DO NOT** place objects on the instrument container.

END OF PRODUCT LIFE

Separate collection
This product must not be disposed of with normal household waste.
Please sort it out for separate recycling.

Separate collection of used products and packaging allows materials to be recycled and used again.
Reuse of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

Some local governments may require local or municipal waste disposal centers or retailers of new products to provide households with electronic product recycling services.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Laser Beam	Batteries are not inserted	Insert 2 x AAA Alkaline batteries
	Depleted batteries	Install fresh batteries
	Incorrect battery polarity	Install batteries observing polarity
	Corroded battery terminals	Clean battery terminals
	Poor contact of the ON button	Try to press the button harder or send the unit for repair.
The tool clicks inside	It is a normal phenomenon and generated by light path switchover during measurement.	N/A
The screen displays an error code.	Please refer to the error message section.	Please refer to the error message section.

ERROR MESSAGES

Error Code	Cause	Solution
ERR01	The reflected laser signal is too strong.	Change the target or affix a piece of white paper to the target.
ERR02	The distance to be measured is beyond the measuring range. The specified measuring range of this instrument is 0.05 ~ 60 m.	Measure within the effective measuring range.
ERR03	The target which the laser beam aims at is weak at reflecting the laser beam.	Change the target or affix a piece of white paper to the target.
ERR06	Low battery	Replace with new batteries.

Whenever contacting ToughBuilt® Industries, Inc. for customer service or warranty claims, please note that the information on the registration form would be required.

9. WARRANTY

3 YEAR LIMITED WARRANTY. 1 YEAR / 2 YEARS WITH REGISTRATION WITHIN 30 DAYS OF PURCHASE.

⚠ **IMPORTANT:** Alkaline batteries that ship with the tool are not warranted by ToughBuilt®.

For warranty details visit, ***www.toughbuilt.com***

For Product Registration Form go to our website, ***toughbuilt.com/register-your-product*** or scan QR code to register your product. If you choose not to register your product, only one (1) year limited warranty will apply to your product.

Repairs should be carried out by an authorized-after-sales service center for ToughBuilt® tools. **Customer Service Number (US): 1 (800) 228-4695**

⚠ **IMPORTANT: Specifications are subject to change without notice.**

For FCC application:

§15.19 Labeling requirements.
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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IC gen 8.4 User manual notice
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

§15.21 Information to user.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§15.105 Information to the user.
NOTE: 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.

Region Selection
Limited by local law regulations, version for North America does not have region selection option.

TOUGHBUILT®

ToughBuilt Industries, Inc.
6671 S. Las Vegas Blvd.
Building D, Suite 210
Las Vegas, NV 89119 USA

Solamente para propósito de México:
Importado por: Toughbuilt Industries México S. De R.I. De C.V.
Calle Amado Nervo,
Num. Ext: 785, Num. Int.: B,
Col. Ladrón de Guevara,
Guadalajara, Jalisco,
México. C.P. 44600, R.F.C.
TIM190726DAA

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Hecho en China