

CALCULATED INDUSTRIES®
FAST. ACCURATE. RELIABLE.

Laser DIMENSION MASTER® 165-BT



FREE APP!
LDM CONNECT™
Helps manage
project data

Faster and More Accurate than Tape Measures!

- Measures up to 165 feet
- 1/16 inch accuracy
- Large color display

Download the **LDM CONNECT™** app from
the Apple App Store or Google Play.

 **Bluetooth®**

Model 3360



Laser **DIMENSION MASTER® 165-BT**

The **LASER DIMENSION MASTER 165-BT** from Calculated Industries combines the precision of laser measuring and the convenience of Bluetooth® wireless communication technology. With the **LDM 165-BT** you can take accurate measurements that are instantly sent to your device of choice via the free **LDM CONNECT™** app.

TABLE OF CONTENTS

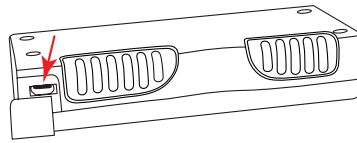
Battery	1
Setting Units of Measurement	1
Using The <i>Laser Dimension Master 165-BT</i>	2
LDM CONNECT™ App Quick Start Guide	3
Display and Icons	4
Memory	5
Measuring	5
Specifications	8
Error Codes	9
Warranty and Registration	9

SAFETY

Do not aim light at persons or animals. Do not stare into the laser light source. Laser light can damage your eyes.


- Read the instructions carefully before using the device.
- Laser radiation is emitted from this product. Use of controls, adjustment procedures other than those herein specified may result in laser radiation exposure.
- This device contains semiconductor laser diodes with wavelengths of 650 nanometers.
- The total continuous output of the beams never exceeds 1.0 milliwatts.
- This device complies with EMC Test according to EN61000 6-3: 2001 + A11:2004, EN 61000-6-1:2001, EN 61000-4-2, EN 61000-4-3, EN 60825, FCC Test according to PART 15.

BATTERY (Fully charge the battery prior to first use)



- Up to 2,000 measurements per full charge dependent on how long laser is on for each measurement
- The **LDM 165-BT** is powered by a rechargeable Lithium-ion battery (included).
- The battery status icon on the display shows remaining power.
- Connect included USB cable to charging block and **LDM 165-BT**, then plug into outlet.
- Approximate charging time: 5 hours (full charge)


SETTING UNITS OF MEASUREMENT

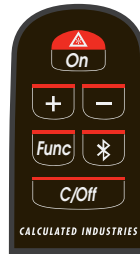
- Turn the **LDM 165-BT** on
- Press **Func** Button 8 times until you reach the  units screen
- Press **+** **-** keys to toggle through the measurement options
- Measurement options include feet-inch, feet-decimal, inches or meters
- Press **Func** button to set measurement option


USER'S GUIDE — 1

USING THE LASER DIMENSION MASTER 165-BT


Buttons


 **Power On/Measure:** Press **once** to turn power on. While unit is on, press once to turn laser on, press again to measure (beeps once). To save battery power, the laser shuts off automatically after 30 seconds of non-use. The device turns off after 10 minutes of inactivity.



 Behavior depends on which mode the device is in, as specified below.

- **Linear, Area, Volume measurement modes:** used to add and subtract measurements
- **Bluetooth selection mode:** used to turn Bluetooth on or off
- **Reference Point mode:** used to change the measurement Reference Point to either top/front-end or bottom/back-end of the device. Flashing upper-left indicator reflects current setting.
- **Memory mode:** used to scroll forward and backward through the last 50 measurements
- **Units mode:** used to scroll forward and backward through available units of measurement

 Repeated presses scroll through the Measuring modes, Reference Point mode, Memory mode and Units mode.



 Enters Bluetooth selection mode, allowing you to turn Bluetooth on or off.

Buttons (continued)

C/Off Press and release to clear the most recent measurement. Selecting during a cleared display returns to Linear Measurement mode. Press and hold for 2 seconds to turn device off.

LDM CONNECT™ APP QUICK START GUIDE

Download free app from  or 














- Power on the **LDM 165-BT**.
- Press , then the  button to turn on the Bluetooth.
- Launch the **LDM CONNECT™** app.
- Create or open an existing project within the app.
LDM 165-BT measurements can now be transferred directly to app.

For detailed app instructions, select the **Help** menu option within the app.



USER'S GUIDE — 3

DISPLAY AND ICONS

	Linear Measurement Mode		Bottom/Back Reference
	Area Measurement Mode		Top/Front Reference
	Volume Measurement Mode		Memory Mode
	Basic Indirect Height Mode		Units Mode
	Advanced Indirect Height - Full Mode		Bluetooth Mode
	Advanced Indirect Height - Partial Mode		Battery Status
			Hardware Error

Angle Indicator

Bluetooth Status
Flashing: Attempting to Connect
Solid: Connection Established

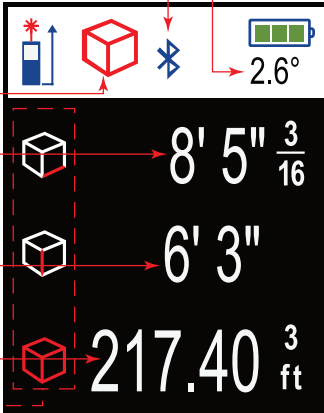
Linear, Area, Volume or Triangular Measurement Indicator

1st Measurement

2nd Measurement

Final Measurement or Calculation




Linear, Area, Volume or Triangular Measurements




The screenshot shows a black display with white text and icons. At the top, there is a status bar with icons for a linear measurement mode (flashing), a volume measurement mode (solid), a Bluetooth symbol (flashing), and a battery level indicator. The main display shows three measurement results, each preceded by a volume measurement mode icon: 8' 5" ³/₁₆, 6' 3", and 217.40 ³/_{ft}. An angle indicator shows 2.6°.




4 — LDM 165-BT

MEMORY

The **LDM 165-BT** stores the last 50 measurements. The Memory Mode icon  will display the number of measurements stored. Scroll forward or backward through the measurements with the   buttons.


MEASURING




The **LDM 165-BT** has six different modes of measurement: Linear, Area, Volume, Basic Indirect Height, Advanced Indirect Height - Full, and Advanced Indirect Height - Partial. The icon for each mode will prompt you through each necessary measurement with a blinking red line. For example, the blinking red segment in the icon  indicates that the height is to be measured next.

Linear Mode  Press  until Linear icon appears. With laser on, press  to measure. The entire Linear icon will be outlined in red when the measurement is complete. The Linear measurement will display at the bottom of the screen.

Icon **Description**

 Linear measurement expected




 Linear measurement completed (non-blinking)




Area Mode  Press  until the Area icon appears. With laser on, press  to measure Length. Then, measure Width to calculate Area. The entire Area icon will be outlined in red when the calculation is complete. The Area will display at the bottom of the screen.

(Continued)





USER'S GUIDE — 5

Icon **Description**

-  Length measurement expected
-  Width measurement expected
-  Area calculation complete (non-blinking)



Volume Mode  Press  until the Volume icon appears. With laser on, press  to measure Length. Then, measure Width and Height to calculate Volume. The entire cube will be outlined in red when the calculation is complete. The Volume will display at the bottom of the screen.

Icon **Description**


-  Length measurement expected
-  Width measurement expected
-  Height measurement expected
-  Volume calculation complete (non-blinking)

Basic Indirect Height  Press  until the Basic Indirect Height icon appears. With laser on, press  to measure the Diagonal and its corresponding Angle* to calculate the Height. The Height will be outlined in red when the calculation is complete and will display at the bottom of the screen.




Icon **Description**


-  Diagonal* measurement expected
-  Height calculation complete (non-blinking)

*Angle must appear on display when taking Diagonal measurement to prevent a calculation error.




Advanced Indirect Height - Full  Press **Func** until the Advanced Indirect Height - Full icon appears. With laser on, press **On** to measure the first Diagonal and its corresponding Angle.* Then, measure the second Diagonal and its corresponding Angle* to calculate the Height. The Height will be outlined in red when the calculation is complete and will display at the bottom of the screen.

Icon **Description**

-  1st Diagonal* measurement expected
-  2nd Diagonal* measurement expected
-  Height calculation complete (non-blinking)

Advanced Indirect Height - Partial  Press **Func** until the Advanced Indirect Height - Partial icon appears. With laser on, press **On** to measure the first Diagonal and its corresponding Angle.* Then, measure the second Diagonal and its corresponding Angle* to calculate the Height. The Height will be outlined in red when the calculation is complete and will display at the bottom of the screen.

Icon **Description**

-  1st Diagonal* measurement expected
-  2nd Diagonal* measurement expected
-  Height calculation complete (non-blinking)

*Angle must appear on display when taking Diagonal measurement to prevent a calculation error.

SPECIFICATIONS

Measuring Range: 4" to 165' (0.1 m to 50 m)

Measuring Accuracy: 1/16" (2 mm)

Laser Wavelength: 650nm

Laser Class: 2, <1mW

Units: Feet-inch-fractions, decimal feet,
inch-fraction, meters

Weight: 3.4 oz (96g)

Power: 3.7V 1000mAh Li-ion rechargeable

Power Management: Auto shut-off after 10 minutes

Battery Life: Up to 2,000 measurements per full
charge dependent on how long laser is on for each
measurement

Size: 4.6" x 1.78" x 1.0" (117 mm x 45 mm x 25 mm)

Operating Temperature Range: 32°F to 104°F
(0°C to +40°C)

Storage Temperature Range: -4°F to 150°F
(-20°C to +65°C)

Includes: Bluetooth® connectivity **LDM CONNECT™** app for
iOS/Android devices, protective carrying case, wrist
lanyard, rechargeable Li-ion battery, charger cable
and 2-year warranty

8 — LDM 165-BT

ERROR CODES

Code	Cause	Remedy
101	Low power	Recharge the Lithium-ion battery
104	Calculation error	Repeat measurement
152	Device temperature is too high	Cool down device
153	Device temperature is too low	Warm up device
154	Out of range	Move to within device range of 4 inches to 165 feet (0.1 m to 50 m)
155	Received signal too weak	Alternate target surface from lighter to darker, or vice versa
156	Received signal too strong	Alternate target surface from darker to lighter, or vice versa
157	The ambient light is too bright	Darken target within device range
160	Device is unstable	Stabilize device
170	Bluetooth connection error	Turn device off/on and close/re-launch app

Your **LDM 165-BT** is covered by a 2-year limited warranty.

Laser **DIMENSION MASTER® 165-BT**

Model 3360

Measure distances,
areas, calculate
volume and heights

Measure from front
or back of unit

Large, bright, color
display is easy to read

Memory function
stores up to 50
measurements

Reduce measuring
time, increase
accuracy

 **Bluetooth®**
LDM CONNECT™ app included



 **CALCULATED
INDUSTRIES®**

Printed in China. UG3360E-C



Dimension Master® and Calculated Industries® are registered trademarks of Calculated Industries, Inc. © 2019. All rights reserved. Made in China. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc. The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Calculated Industries is under license. Other trademarks and trade names are those of their respective owners.