Laser DIMENSION MASTER® 165-BT

FREE APP!
LDM CONNECT™
Helps manage
project data

8' 11" $\frac{7}{16}$

10' 3" $\frac{1}{2}$

92.143 ft^2

On

+   −

Func   ✳

C/Off

CALCULATED INDUSTRIES

Model 3360

**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**®

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.

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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.

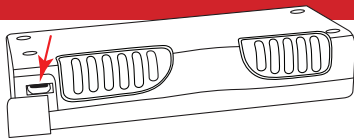## *LDM Connect™* APP QUICK START GUIDE

Download free app from [Google Play] or [App Store]

- 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.

- 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)

MEASURING CONDITIONS

The quality of the measurement depends on the surfaces to which you are measuring.

- Strongly reflecting targets deflect the laser beam and cause measuring errors.
- Non-reflecting, dark surfaces increase the measuring time.
- Always begin by taking a controlled measurement.

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.

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+ **−** 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

Func 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.

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.

⊢→	Linear Measurement Mode		Bottom/Back Reference
▭	Area Measurement Mode		Top/Front Reference
▱	Volume Measurement Mode	50	Memory Mode
◸	Basic Indirect Height Mode	↻U	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

2.6°

8' 0" $\frac{3}{16}$

13' 2" $\frac{3}{16}$

7' 1" $\frac{5}{16}$
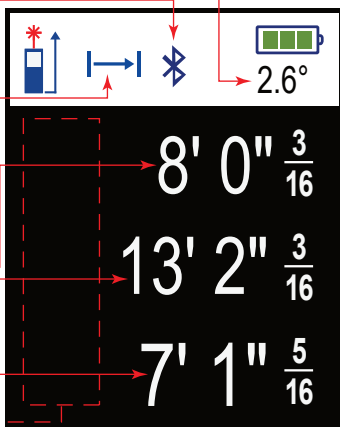
MEMORY

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

MEASURING

The ***LDM 165-BT*** has six diferent 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 Func until Linear icon appears. With laser on, press On 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 Func until the Area icon appears. With laser on, press On 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)*

Icon	*Description*
☐	Length measurement expected
☐	Width measurement expected
☐	Area calculation complete (non-blinking)

Volume Mode ⬡ Press **Func** until the Volume icon appears. With laser on, press **On** 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 **Func** until the Basic Indirect Height icon appears. With laser on, press **On** 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 Type: 620~690nm

Laser Class: 2, <1mW

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

Weight: 3.4 oz (96g)

Power: Rechargeable Lithium-ion (included)

Power Management: Auto shut-off after 10 minutes

Battery Life: Up to 2,000 measurements per full charge

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

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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. To view the warranty and to register, go to www.calculated.com/register.

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-B**