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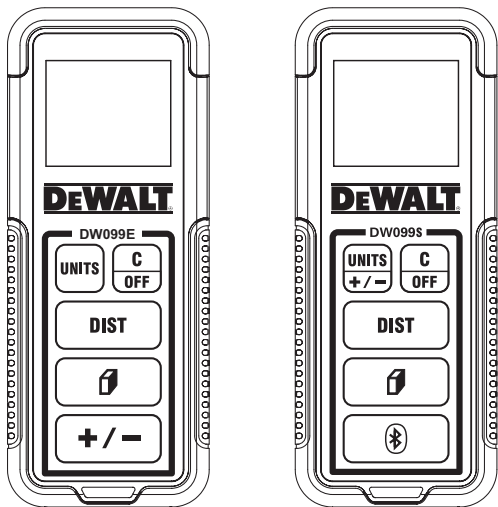
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# DW099E & DW099S

## User Manual

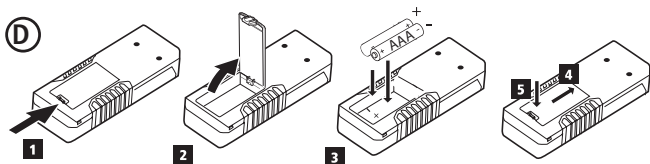
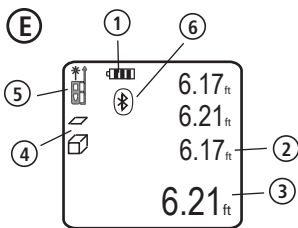
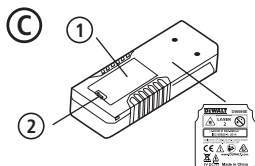
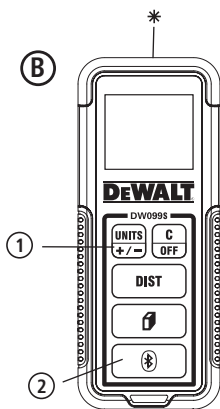
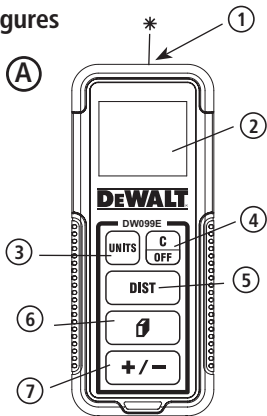


[www.dewalt.com](http://www.dewalt.com)

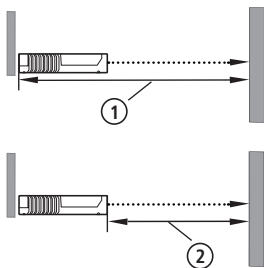


Please read these instructions before operating the product.

# Figures

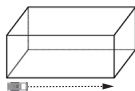


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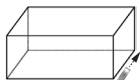


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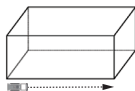


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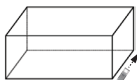


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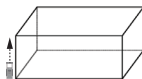
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# E Contents

- User Safety
- Battery Safety
- Setup (Load Batteries)
- Operation
- Warranty
- Error Codes
- Specifications

Retain all sections of this manual for future reference.

## User Safety



### WARNING:

Carefully read the Safety Instructions and Product Manual before using this product. The person responsible for the product must ensure that all users understand and adhere to these instructions.



### WARNING:

The following label information is placed on your laser tool to inform you of the laser class for your convenience and safety.



The DW099E and DW099S tools emit a visible laser beam, as shown in Figure (A) #1. The laser beam emitted is Laser Class 2 per IEC 60825-1 and complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.



### WARNING:

While the laser tool is in operation, be careful not to expose your eyes to the emitting laser beam (red light source). Exposure to a laser beam for an extended time period may be hazardous to your eyes. Do not look into the beam with optical aids.



**WARNING:** To reduce the risk of injury, user must read the Product User manual, Laser Safety, and Battery Safety manuals.

## FCC Compliance

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.

## FCC Statement

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 the receiver.
- Connect the equipment into an outlet on a different circuit (not the circuit to which the receiver is connected).
- Consult the dealer or an experienced radio/TV technician for help.

## Canada, Industry Canada (IC) Notices

Class B digital circuitry of this device complies with Canadian ICES-003. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## Notifications d'Industrie Canada (IC, Industry Canada), Canada

Le circuit de cet appareil numérique de classe B est conforme à l'ICES-003 (Canada). Cet appareil est conforme aux exigences RSS d'Industrie Canada exempt de licence. L'utilisation est sujette aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférences, et (2) cet appareil doit accepter toutes les interférences, y compris celles qui pourraient provoquer un fonctionnement non souhaitable de l'appareil.

Under Industry Canada regulations, the radio transmitter(s) in this device may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

## Battery Safety



**WARNING:** Batteries can explode or leak and cause serious injury or fire. To reduce the risk:

**ALWAYS** follow all instructions and warnings on the battery label and package.

**DO NOT** short any battery terminals.

**DO NOT** charge alkaline batteries.

**DO NOT** mix old and new batteries. Replace all of them at the same time with new batteries of the same brand and type.

**DO NOT** mix battery chemistries.

**DO NOT** dispose of batteries in fire.

**ALWAYS** keep batteries out of reach of children.

**ALWAYS** remove batteries if the device will not be used for several months.

**NOTE:** Ensure that the recommended batteries are used.

**NOTE:** Ensure the batteries are inserted in the correct manner, with the correct polarity.





## Setup (Load Batteries)


1. Locate the battery compartment latch on the back of the tool (Figure (C) #2).
2. Using your finger, pull the latch up to unlock and remove the battery door (Figure (D) #1 and #2).
3. Insert two AAA batteries, making sure to position the - and + ends of each battery as noted inside the battery compartment (Figure (D) #3).
4. Slide the pins at the bottom of the battery door into the notches in the battery compartment (Figure (D) #4).
5. Push the battery door down until it snaps in place (Figure (D) #5).

When the tool is ON, the battery level appears in the display window (Figure (E) #1).


## Operation

### Measuring Distance to a Wall or Object

1. Click  (Figure (A) #5) to turn on the tool.
2. The tool will measure the distance from the **bottom** of the tool to the wall or object (Figure (F) #1).  
  
To measure from the **top** of the tool instead of the bottom (Figure (F) #2), hold  for 2 seconds. On the display window, the tool icon will change from  to  (Figure (E) #5).
3. Point the laser at the top of the tool (Figure (A) #1) toward the wall or object whose distance you need to measure (Figure (F)).




4. Click  to measure the distance from the tool to the wall or object.


5. At the bottom of the display window (Figure (A) #2), view the current measurement (Figure (E) #3).

To take a new measurement, click  to move the current measurement up to the previous line on the display window (Figure (E) #2). Then repeat steps 2-5.

### Measuring Distances Continuously


To take a series of measurements as you move around, change to Continuous Measure mode.




1. Click  (Figure (A) #5) to turn on the tool.
2. Point the laser at the top of the tool (Figure (A) #1) toward the wall or object whose distance you need to measure (Figure (F)).
3. Click and hold  for 2 seconds to turn on the Continuous Measure mode.
4. At the bottom of the display window (Figure (A) #2), view the current measurement (Figure (E) #3), which will keep changing as you move the tool.
5. To take the current measurement (from the tool to the wall or object) and exit Continuous Measure mode, click .





To take a new measurement, click  to move the current measurement up to the previous line on the display window. Then repeat steps 2-5.

## Measuring Area

You can measure the area of a wall, floor, or object.


1. Click  (Figure A #5) to turn on the tool.
2. The tool will measure the distance from the **bottom** of the tool to the wall or object (Figure F #1).






To measure from the **top** of the tool instead of the bottom (Figure F #2), hold  for 2 seconds. On the display window, the tool icon will change from  to  (Figure E #5).

3. Click  to show  on the display window (Figure E #4).
4. Measure the **width**.
  - Point the top of the tool at one side of the target (wall, floor, or object).
  - Position the tool at one end of the target and point the laser dot across the width. (Figure G #1 shows where to position the tool if you are measuring from the **bottom** of the tool.)
  - Click  to display the width measurement at the top of the display window.
5. Measure the **length**.
  - Position the bottom of the tool at one end of the target and point the laser dot across the length. (Figure G #2 shows where to position the tool if you are measuring from the **bottom** of the tool.)
  - Click  to display the length measurement on the second line of the display window.
6. View the **Area** measurement at the bottom of the display window (Figure E #3).

## Measuring Volume

You can measure the volume of a room or object.

1. Click  (Figure A #5) to turn on the tool.
2. The tool will measure the distance from the **bottom** of the tool to the wall or object (Figure F #1).
 

To measure from the **top** of the tool instead of the bottom (Figure F #2), hold  for 2 seconds. On the display window, the tool icon will change from  to  (Figure E #5).
3. Click  twice to show  on the display window (Figure E #4).

4. Measure the **width**.
  - Point the top of the tool at one side of the target (room or object).
  - Position the tool at one end of the target and point the laser dot across the width. (Figure H #1 shows where to position the tool if you are measuring from the **bottom** of the tool.)
  - Click  to display the width measurement at the top of the display window.


5. Measure the **length**.
  - Position the tool at one end of the target and point the laser dot across the length. (Figure H #2 shows where to position the tool if you are measuring from the **bottom** of the tool.)
  - Click  to display the length measurement on the second line of the display window.





6. Measure the **height**.
  - Position the tool at one end of the target and point the laser dot across the height. (Figure H #3 shows where to position the tool if you are measuring from the **bottom** of the tool.)
  - Click  to take the measurement.




7. View the **Volume** measurement at the bottom of the display window (Figure E #3).

## Adding Measurements

You can add two measurements to get a total measurement of the two distances.


1. Click  (Figure A #5) to turn on the tool.
2. The tool will measure the distance from the **bottom** of the tool to the wall or object (Figure F #1).
 




To measure from the **top** of the tool instead of the bottom (Figure F #2), hold  for 2 seconds. On the display window, the tool icon will change from  to  (Figure E #5).
3. Point the laser at the top of the tool (Figure A #1) toward the wall or object whose distance you need to measure.
4. Click  to measure the distance from the tool to the wall or object.





5. Indicate that you want to add this measurement to the next measurement.
  - On the **DW099E** keypad, click  (Figure **A** #7).
  - On the **DW099S** keypad, click  (Figure **B** #1).
6. Point the laser at the top of the tool toward the next wall or object.
7. Click  to measure the distance and add it to the previous measurement.
8. View the total of the two measurements at the bottom of the display window (Figure **E** #3).

## Subtracting Measurements

You can subtract one measurement from another.


1. Click  (Figure **A** #5) to turn on the tool.
2. The tool will measure the distance from the **bottom** of the tool to the wall or object (Figure **F** #1).

To measure from the **top** of the tool instead of the bottom (Figure **F** #2), hold  for 2 seconds. On the display window, the tool icon will change from  to  (Figure **E** #5).

3. Point the laser at the top of the tool (Figure **A** #1) toward the wall or object whose distance you need to measure.
4. Click  to measure the distance from the tool to the wall or object.
5. Indicate that you want to subtract the next measurement from this measurement.
  - On the **DW099E** keypad, click  twice.
  - On the **DW099S** keypad, click  twice.
6. Point the laser at the top of the tool toward the next wall or object.
7. Click  to measure the distance and subtract it from the previous measurement.





## Changing the Unit of Measure

Once the current measurement is taken (the device is not in Continuous Measure mode), you can change the unit of measure from decimal ft (6.21 ft) to fractional ft (6'02"9/16), fractional ft to meters (1.894 m), meters to inches (74 9/16 in), or inches to decimal ft.

- On the **DW099E** keypad, click  (Figure **A** #3).
- On the **DW099S** keypad, hold  (Figure **B** #1) until you see the measurement change (2-3 seconds).

## Using Your DW099S With

If you have a **DW099S**, you can use its Bluetooth® capability to pair it with the **DeWALT Tool Connect** application on your cell phone or tablet, and then record accurate measurements in your floor plans.

1. From either  or , download the **DeWALT Tool Connect** application to your cell phone or tablet.
2. Using the **DeWALT Tool Connect** application, capture the room or space for which you want to record the measurements, and build your floor plan.
3. On the **DW099S** keypad, click  to turn on the tool.
4. If the Bluetooth® icon does not appear on the display window (Figure **E** #6), click  on the keypad to turn on Bluetooth®.
5. Use the **DeWALT Tool Connect** application to pair your cell phone or tablet to the **DW099S**.
6. Use the **DW099S** to measure each wall in the room or space captured in the floor plan, and sync the measurements to the floor plan.
7. Using the **DeWALT Tool Connect** application, save the floor plan.


Once you have saved the floor plan, you can export it to one of several different file formats, including PDF, DXF, or JPG, and print it or email it to other people (your realtor, home center, etc.).

### Bluetooth

"THE BLUETOOTH® WORD MARK AND LOGOS ARE REGISTERED TRADEMARKS OWNED BY BLUETOOTH SIG, INC. AND ANY USE OF SUCH MARKS BY DEWALT INDUSTRIAL TOOL CO. IS UNDER LICENSE. OTHER TRADEMARKS AND TRADE NAMES ARE THOSE OF THEIR RESPECTIVE OWNERS."

## Turning Off the Tool

The tool can be turned off in either of these ways:

- Press and hold  for several seconds (until the display window clears).
- If you do not use the tool for 90 seconds, it will automatically turn off.

## Three Year Limited Warranty

DeWALT will repair, without charge, any defects due to faulty materials or workmanship for three years from the date of purchase. This warranty does not cover part failure due to normal wear or tool abuse. For further detail of warranty coverage and warranty repair information, visit [www.DeWALT.com](http://www.DeWALT.com) or call 1-800-4-DeWALT (1-800-433-9258). This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others. This warranty gives you specific legal rights and you may have other rights which vary in certain states or provinces.

In addition to the warranty, DeWALT tools are covered by our:

### 1 YEAR FREE SERVICE

DeWALT will maintain the tool and replace worn parts caused by normal use, for free, any time during the first year after purchase.

### 90 DAY MONEY BACK GUARANTEE

If you are not completely satisfied with the performance of your DeWALT Power Tool, Laser, or Nailer for any reason, you can return it within 90 days from the date of purchase with a receipt for a full refund - no questions asked.

**RECONDITIONED PRODUCT:** Reconditioned product is covered under the 1 Year Free Service Warranty. The 90 Day Money Back Guarantee and the Three Year Limited Warranty do not apply to reconditioned product.

**FREE WARNING LABEL REPLACEMENT:** If your warning labels become illegible or are missing, call 1-800-4-DeWALT or visit your local service center for a free replacement.




# Error Codes

If INFO appears on the display window with a Code number, perform the corresponding Corrective Action.

Code	Description	Corrective Action
101	Received Signal Too Weak, Measuring Time Too Long	Use the target plate or change the target surface.
102	Received Signal Too High	Target is too reflective. Use the target plate or change the target surface.
201	Too Much Background Light	Reduce the background light on the target area.
202	Laser Beam Interrupted	Remove the obstacle and repeat the measurement.
203	Insufficient Power	Replace the batteries.
301	Temperature Too High	Allow the device to cool down to a temperature within the specified <b>Operating Temperature Range</b> .
302	Temperature Too Low	Allow the device to warm up to a temperature within the specified <b>Operating Temperature Range</b> .
401	Hardware Error	Switch the device on/off several times. If the error still occurs, return the defective device to the Service Center or distributor. Refer to the <b>Warranty</b> .
402	Unknown Error	Contact the Service Center or distributor. Refer to the <b>Warranty</b> .

# Specifications

Range	4in to 100ft (.1m to 30m)
Measuring Accuracy*	$\pm 3/32$ in ( $\pm 2$ mm)*
Resolution**	1/16in (1mm)**
Laser Class	Class 2 (IEC/EN60825-1: 2014)
Laser Type	$\leq 1.0$ mW @ 620-690nm
Laser/Backlight Automatic Switch-off	After 30s
Unit Automatic Switch-off	After 90s
Continuous Measuring	Yes
Area/Volume	Yes
Battery Life (2 x AAA)	Up to 3000 Measurements (2500 with  Bluetooth)
Dimension (H x D x W)	4.72 x 1.91 x 1.02in (120 x 48.5 x 26mm)
Weight (with Batteries)	3.21oz (100g)
Storage Temperature Range	14° F ~ 140° F (-10° C ~ +60 C)
Operating Temperature Range	32° F ~ 104° F (0° C ~ +40° C)

\***Measuring Accuracy** depends on the current conditions:

- Under **favorable** conditions (good target surface and room temperature), up to 33ft (10m).
- Under **unfavorable** conditions (bright sunlight, a very weak reflecting target surface, or large temperature fluctuations), the error can increase by to  $\pm 0.003$  in/ft ( $\pm 0.25$ mm/m) for distances over 33ft (10m).

\*\***Resolution** is the finest measurement you can see. In inches, that is 1/16". In mm, that is 1mm.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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