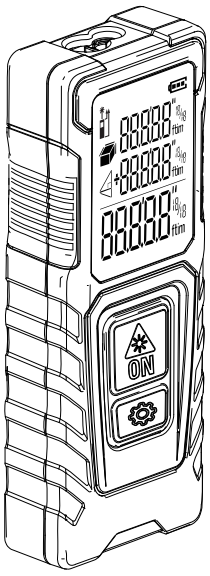
STANLEY®

STHT77100
User Manual

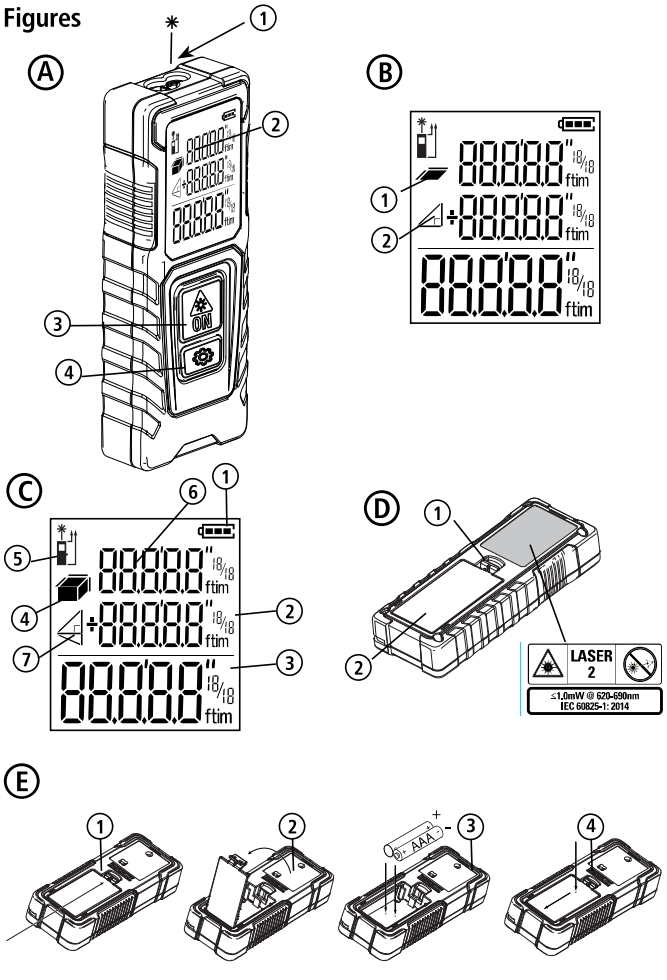


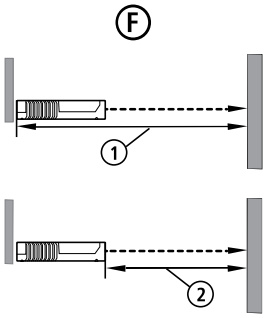
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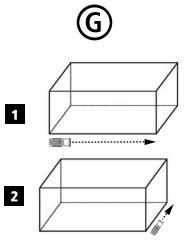
Please read these instructions before operating the product.

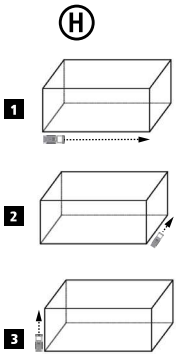
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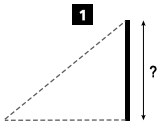

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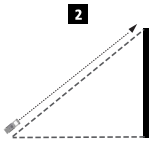

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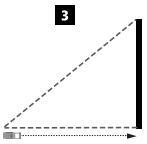

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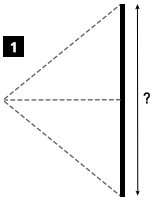
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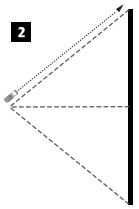


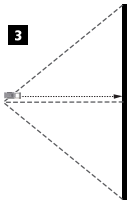


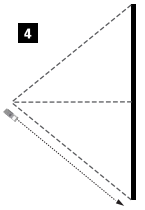


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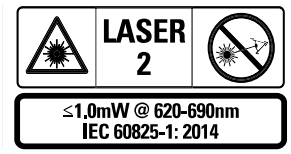
- User Safety
- Battery Safety
- Setup (Load Batteries)
- Operation
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Retain all sections of this manual for future reference.

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 STHT77100 tools emit a visible laser beam, as shown in Figure A (1). The laser beam emitted is Laser Class 2 per IEC 60825-1.

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 manual, and Battery Safety information.*

CAUTION: *Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.*

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 D (2)).
2. Using your finger, pull the latch up to unlock and remove the battery door (Figure E (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 E (3)).
4. Slide the pins at the bottom of the battery door into the notches in the battery compartment (Figure E (4)).

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5. Push the battery door down until it snaps in place (Figure E 4).

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

SETUP LDM

Turn On Tool

Click On (Figure A 3) to turn on the tool.

Changing the Reference Location

The tool will measure the distance from the bottom (Figure F 1) or top (Figure F 2) of the tool to the wall or object.

1. Press and hold the gear button (Figure A 4) for 3 seconds. The measurement reference location icon (Figure C 5) will flash on the display window.
2. Press the gear button again to change the reference location.
3. Press the On button (Figure A 3) to confirm the reference location.

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.

- To change the measurement unit, hold the gear button (Figure A 4) for three seconds to enter the units menu. Press the on button to confirm your reference location. Once confirmed, the current unit of measurement will be displayed, press the gear to change units and the on button to confirm

OPERATION

Measuring Distance to a Wall or Object

1. Point the laser (Figure A 1) toward the wall or object whose distance you need to measure (Figure F).
2. Press On button (Figure A 3) to measure the distance from the tool to the wall or object. Refer to ***Setup LDM*** to change the reference location and / or unit of measurement.
3. At the bottom of the display window (Figure A 2), view the current measurement (Figure C 3), which will keep changing as you move the tool.

To record the measurement click On. To record another measurement, click On again. Then repeat steps 1-3.

Measuring Area

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

1. Press the gear button (Figure A 4) once to show the area icon (Figure B 1) on the display window (Figure A 2).

Measure the length.

1. Position 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 measuring from the top of the tool.)
2. Press On to display the length measurement on the first line of the display window.

Measure the width.

1. Point the top of the tool at one side of the target (wall, floor, or object).
2. 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 top of the tool.)
3. Press On to display the width measurement at the top of the display window.

View the Area measurement at the bottom of the display window (Figure C 3).

Measuring Volume

You can measure the volume of a room or object.

1. Press the gear button (Figure A 4) twice to show the volume icon on the display window (Figure C 3).

Measure the width.

1. Point the top of the tool at one side of the target (room or object).
2. 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 top of the tool.)
3. Press to display the width measurement at the top of the display window.

Measure the length.

1. 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 top of the tool.)
2. Press On to display the length measurement on the second line of the display window.

Measure the height.

1. Positon 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).
2. Press On to display the height measurement on the third line of the display window.

View the Volume measurement at the bottom of the display window (Figure C 3).

Measuring the Height of a Tall Object

If you need to measure the height of a tall object (e.g., a tall building), you can calculate the height based on the distances from the same point to 2 or 3 points on the object.

The tool will use the Pythagorean Theorem (A2+B2=C2) to calculate the height.

Measure a distance with two measurements

You can use the distance to two points on a tall object (Double Indirect Height) to determine its height (Figure I1).

1. Point the tool's laser (Figure A 1) toward a wall or object, and not toward anyone's eyes.
2. Press On button (Figure A 3) to turn the tool on and display the red laser dot.
3. Press the gear button (Figure A 4) three times to show pythagoras (Figure B 2) on the display window.
4. Position the tool opposite the bottom of the building or object whose height you need to measure (Figure I2).
5. Aim the laser at the highest point of the building or object (Figure I2).
6. Press On button (Figure A 3) to measure the distance.
7. From the same point, aim the laser straight ahead toward the lowest point of the building or object (Figure I3).
8. Press On button (Figure A 3) to measure the distance.
9. On the bottom line of the screen, view the height of the building or object.

Measure a distance with three measurements

You can use the distance to three points on a tall object to determine its height (Figure J1).

1. Point the tool's laser (Figure A 1) toward a wall or object, and not toward anyone's eyes.
2. Press On button (Figure A 3) to turn the tool on and display the red laser dot.
3. Press the gear button (Figure A 4) four times to show pythagoras on the display window (Figure C 7).

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4. Position the tool opposite the approximate center of the vertical height to be measured (Figure J2).
5. Aim the laser at the highest point of the building or object (Figure J2).
6. Press On button (Figure A 3) to measure the distance.
7. From the same point, aim the laser straight ahead toward the center of the building or object (Figure J3).
8. Press On button (Figure A 3) to measure the distance.
9. From the same point, aim the laser at the lowest point of the building or object (FigureJ4).
10. Press On button (Figure A 3) to measure the distance.
11. On the bottom line of the screen, view the height of the building or object.

Adding Measurements

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

1. Press gear button (Figure A 4) to show the addition icon on the display window (Figure C 4)
2. Press On button (Figure A 3) to measure the distance from the tool to the wall or object.
3. Press the On button to record the first measurement on the top line.
4. Point the laser (Figure A 1) toward the next wall or object.
5. Press the On button to record the second measurement on the middle line.
6. View the total of the two measurements at the bottom of the display window (Figure C 3).

Subtracting Measurements

You can subtract one measurement from another.

1. Press gear button (Figure A 4) to show the subtraction icon on the display window (Figure C 3).
2. Point the laser at the top of the tool laser (Figure A 1) toward the wall or object whose distance you need to measure.
3. Press On button (Figure A 3) to measure the distance from the tool to the wall or object.
4. Press the On button to record the first measurement on the top line.
5. Point the laser at the top of the tool toward the next wall or object.
6. Press the On button to record the second measurement on the middle line.
7. View the difference of the two measurements at the bottom of the display window (Figure C 3).
   NOTE: If Second measurement is larger than first: IC 601 will be displayed for a negative number. Please switch measurement points so first measurement is larger than second

Turning Off the Tool

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

- Press and hold the on button (Figure A 3) for several seconds (until the display window clears).
- If you do not use the tool for 180 seconds, it will automatically turn off.

Three Year Limited Warranty

Stanley warrants this product for a period of (2) years against deficiencies in material and workmanship. This LIMITED WARRANTY does not cover products that are improperly used, abused, altered or repaired. Please call 800-262-2161 for more information or return instructions. Unless otherwise noted, Stanley will repair without cost, any Stanley product found to be defective, including parts and labor charges, or at Stanley's option, will replace such tools or refund the purchase price, less the amount for depreciation, in exchange for the defective tool. THIS LIMITED WARRANTY EXCLUDES ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages, so these limitations may not apply to you. This LIMITED LIFETIME WARRANTY gives you specific legal rights that may vary from state to state. In addition to the warranty, STANLEY Lasers are covered by: 30-Day Money Back Guarantee. If you are not completely satisfied with the performance of your STANLEY Laser for any reason, you can return it within 30 days from the date of purchase with a receipt for a full refund.

Protecting the Environment



Separate collection. Products and batteries marked with this symbol must not be disposed of with normal household waste.

Products and batteries contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products and batteries according to local provisions. Further information is available at **www.2helpU.com**.

Batteries

- When disposing batteries, think of the protection of the environment.
- Check with your local authorities for an environmentally safe way of battery disposal.

E Error Codes

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

Code	Description	Corrective Action
IC101	Received signal too high	Target is too reflective. Use the target plate or change the target surface.
IC201	Too much background light	Reduce the background light on the target area.
IC302	Temperature out of range	Allow device too warm or cool and repeat measurement
IC303	Distance not in range or signal too low	Adjust range, if within range change target surface
IC401	Battery too low for measurements	Recharge battery or change batteries if non-rechargeable
IC505	Hardware error	Switch the device on/off several times. If error still occurs, return device to Service Center or Distributor
IC601	Negative number	Measure longer distance before shorter distance for positive result
IC604	Invalid measurement for calculation	Remeasure distances, hypotenuse must be larger than sides of triangle

Specifications

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Range	.2 m to 30 m (7.9 in to 100 ft)
Measuring Accuracy*	± 3mm (± 1/8 in)*
Resolution**	1 mm (1/16 in)**
Laser Class	Class 2 (IEC/EN60825-1: 2014)
Laser Type	≤ 1.0 mW @ 620-690 nm
Backlight Automatic Switch-off	After 20s
Laser	After 120s
Unit Automatic Switch-off	After 180s
Continuous Measuring	Yes
Area/Volume	Yes
Battery Life (2 x AAA)	Up to 3000 Measurements
Dimension (H x D x W)	120 x 48.5 x 26 mm (4.72 x 1.91 x 1.02 in)
Weight (with Batteries)	100g (3.21 oz)
Storage Temperature Range	-10° C ~ +60 C (14° F ~ 140° F)
Operating Temperature Range	0° C ~ +40° C (32° F ~ 104° F)

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

- Under **favorable** conditions (good target surface, low background illumination, and room temperature), up to 30' (10 m). The measurement error can increase by ± 0.1 mm/m for distances over 30' (10 m)
- In **unfavorable** conditions (poor target surface, high background illumination, operating temperatures at the Upper or lower end of the temperature range), the measurement range may be reduced and the accuracy can increase to ± 6 mm for distances under 30' (10 m). Beyond 30' (10 m) the measurement error can increase by ±0.25mm/m.

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

Inhalt

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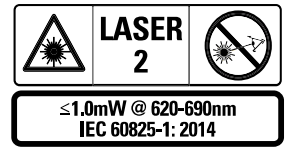
- Benutzersicherheit
- Batteriesicherheit
- Einrichtung (Batterien laden)
- Betrieb
- Garantie
- Fehlercodes
- Technische Daten

Bewahren Sie alle Teile dieser Anleitung auf.

Benutzersicherheit

WARNUNG: *Lesen Sie die Sicherheitshinweise und das Produkthandbuch sorgfältig durch, bevor Sie dieses Produkt verwenden. Die für das Produkt verantwortliche Person muss sicherstellen, dass alle Benutzer diese Anleitung verstehen und befolgen.*

WARNUNG: *Die folgenden Angaben auf dem Etikett Ihres Lasergeräts informieren über die Laserklasse und dienen Ihrer Bequemlichkeit und Sicherheit.*



Das Lasergerät STHT77100 emittiert einen sichtbaren Laserstrahl, wie in Abbildung A 1 dargestellt. Der emittierte Laserstrahl entspricht der Laserklasse 2 gemäß IEC 60825-1.

WARNUNG: *Achten Sie während des Betriebs des Laserwerkzeugs darauf, dass Ihre Augen nicht dem emittierten Laserstrahl (rote Lichtquelle) ausgesetzt werden. Die längere Belastung durch einen Laserstrahl kann für die Augen gefährlich sein. Schauen Sie auch nicht mit optischen Hilfsmitteln in den Laserstrahl.*

WARNUNG*: Um das Verletzungsrisiko zu verringern, muss der Benutzer das Benutzerhandbuch des Produkts, das Laser-Sicherheitshandbuch und die Informationen zur Batteriesicherheit lesen.*

VORSICHT: *Durch Verwendung von Steuerungen oder Anpassung oder Verfahren, die nicht in diesem Dokument angegeben sind, kann der Verwender gefährlicher Strahlung ausgesetzt werden.*

Batteriesicherheit

WARNUNG: *Batterien können explodieren oder auslaufen und schwere Verletzungen oder Feuer verursachen. Um diese Gefahr zu reduzieren:*

- *Beachten Sie IMMER alle Gebrauchshinweise und Warnungen auf der Verpackung der Batterie sowie auf der Batterie selbst.*
- *Schließen Sie Batterieanschlüsse NICHT kurz.*
- *Laden Sie beschädigte Akkus NICHT auf.*
- *Gebrauchte und neue Batterien dürfen NICHT kombiniert werden. Ersetzen Sie alle gleichzeitig durch neue Batterien derselben Marke und Typs.*
- *Verschiedene Batteriechemien dürfen NICHT kombiniert werden.*
- *Batterien NICHT ins Feuer werfen.*
- *Bewahren Sie Batterien IMMER außerhalb der Reichweite von Kindern auf.*
- *Entfernen Sie IMMER die Batterien aus dem Gerät, wenn Sie dieses für mehrere Monate nicht benutzen.*
- ***HINWEIS:*** *Stellen Sie sicher, dass die empfohlenen Batterien verwendet werden.*