## Leica DISTO™ D5 \& D8 Training



This is a

## Step-By-Step Guided Tour

of the most important functions

Take out your Leica DISTO ${ }^{\text {TM }}$ D5 or D8
follow the instructions...and

Let's start!


Turn it On!

- when it has to be right

Seica
Geosystems

## The New Display, Full Color and Lots of Information

There are different sections which show different things:


## D5/D8 Digital Point Finder with 1x, 2x, 4x Zoom



## Who needs a digital point finder?

- Every professional who makes any measurements outside has a huge benefit!



## Digital Point Finder 6

- The display screen will self adjust for light levels but you can also press + and $\quad$ to manually adjust the screen brightness indoors or outdoors.
- Point finder can be used in any measurement mode to target objects
- Press again to toggle through zoom levels and return to 1x zoom.
- The crosshair in the display shows the target and the DISTO ${ }^{\text {TM }}$ will measure exactly in the middle of the crosshair. If the red laser dot is invisible to the human eye, the DISTO ${ }^{\text {TM }}$ D5/D8 can recognize the laser waves and measure the distance.
- Aim the crosshair on the object you want to measure and press
- The measured distance is displayed on the bottom line of the screen.
- To switch point finder off, press | IEIERR |
| :---: |
| off |



## Digital point finder at short distances

The point finder and laser may not align perfectly at distances less than 45 feet due to a slight Parallax error. In this case you should rely on the actual laser point for your measurement.

## D5/D8 Area and Volume Calculations

Calculate area, volume, wall space, perimeter.


1. Press to measure length
2. Then aim and press to measure width
3. DISTO D5/D8 calculates the area

Extra Feature: Upon completion of area or volume calculation, press and hold the area/volume button and the DISTO will calculate the perimeter in the area mode and the perimeter, wall area, and floor/ceiling area in volume

## D5/D8 Trapezoid Calculations, Method 1

Calculate the area, roof slope, and rafter length with three measurements


Press the button to capture the three measurement as indicated above. The result at the bottom of the screen is the rafter length. Then press hold the $\square$ button until you hear a beep. The second screen will display additional information including roof slope and the area of the measured trapezoid.

## D5/D8 Trapezoid Calculations, Method 2

Calculate the area, roof slope, and rafter length with just 2 measurements


Press the button to capture the two measurement as indicated above. DISTO will result the rafter length in the bottom of the display. Then press hold the button until you hear a beep. The second screen will display additional information including roof slope and the area of the measured trapezoid.

## D5/D8 Triangular Area

Calculate the area of odd shaped spaces and determine angles


Press $3 x$ on the D5 and $1 x$ on the D8 to access the function. This symbol will appear in the top left corner


Enter the triangle mode and measure 3 distances as follows:

and the area of the triangular is displayed in the main line.
If you want to add multiple triangles together then press + to add a second triangle and again to add a third. When you are complete, then press MENU to add the total area of the triangles

## 2nd result display screen:

Press long and additional values such as angle and circumference are displayed. The measured angle will always be the one that is opposite to the third measured side. To get back to the first screen press and hold \% $\%$ in il beep

## D5/D8 Stake Out Function

Layout equal distances across a given distance


- Press function button until the symbol $-\frac{P P P}{a}$
- Adjust the first stake out distance (a) with + and - to the desired length. You can also leave this at zero and just use the " $b$ " value. Holding the button makes selection quicker.
- Confirm distance (a) with
- Now select the second, repeating distance (b) with + and
 confirm the selection with $\overline{=1}$. Holding the button makes selection quicker.
- Press slowly away from the wall. The arrows in the display indicate in which direction the DISTO ${ }^{\text {TM }}$ needs to be moved to achieve the defined distance. A Beeping sound indicates that you are near the next staking out point.
- The third row gives you the absolute distance of the next staking out point.
- Press $\begin{gathered}\text { clead } \\ \text { OFF }\end{gathered}$ to get back to the standard mode.


## D5/D8 Pythagoras Measurements



D5/D8 Pythagoras button. Press 1, 2, or 3 times to select your desired method


Don't forget to access the second screen for more details about your measurement by pressing and holding the Pythagoras button for a few - when it has to be right

## D5/D8 Pythagoras Examples

Calculate distances from the ground or safe locations


## D5/D8 Tilt Sensor

Remember the D5 measures +/- $45^{\circ}$ and the D8 has a full $360^{\circ}$


By accessing the menu, you can set the tilt sensor to display in percent, degrees, or inches/feet (rise over run). You can also activate the degree sensor to be active all the time in the point finder display at the top right hand corner.

NOTE: The D5 and D8 tilt based measurement buttons are in different places on each unit.

If you tilt the DISTO on a transverse angle more than 10 degrees, you will receive an error code on the screen. Error code 160 will appear if you tilt the D5 beyond the $45^{\circ}$ limit


## D5/D8 Direct Horizontal Distance

Measure over or under an obstruction to obtain the horizontal distance

1. Press the tilt button on the D5/D8 two times
2. This symbol will be in the top left corner
3. Aim using the laser or point finder display
 and then press $\because$ to capture your measurement.
4. The bottom line will show the direct horizontal distance.


## D8 Exclusive! Double tilt measurement with one measured distance

Measure tall or deep objects on the same vertical plane where only one reflective point is possible


- Press $\square$ until the $\stackrel{\alpha}{\alpha}$ appears.
- Measure the following:
- Distance and angle by pressing

- When moving the Leica DISTO ${ }^{\text {TM }}$ D8 up or down, you instantly get the corresponding height or depth distance from your starting point
- Lock the second point (angle and distance) by pressing

and then have access to secondary display values if desired
- The result line will display the distance between the two points.
- end Result: Press and hold

to get
 (slope distance, horizontal distance, altitude above the right angle)

Please note that both measurements are in the same vertical plane.
It doesn't matter whether the first measured point is above or below the second one.

## D8 Exclusive! Double tilt measurement with two measured distances

Measure the distances between ANY two vertical points

- Press appears.
- Measure the following: $\alpha$
- Distance and angle

by pressing

- Distance and angle by pressing


Don't forget to use the Point finder and a tripod for this!

- In the main line the slope from the base point (first measurement) to the secondly measured object is displayed.
- 2nd Result: Press and hold
 to get


(horizontal distance between measured points, height difference between the two measured points, pitch of the object)

Please note that if you are measuring the pitch of an object (roof) you need to stand straight in front of the object and measure on a vertical line for an accurate calculation. If you are measuring the height difference of the two measured points you do not have to be directly in front of them.
It doesn't matter whether the first measured point is above or below the second one or whether the object is pitched back or forth

## D8 Exclusive! Profile Measurement

Measure the profile of an object and the DISTO will calculate distance and elevation from your starting reference point

- Press $\%$ until the $\xlongequal{\text { H/ }}$ appears.
- $\pm \mathrm{H} \quad 0.00 \mathrm{ft}$ appears in the display. You can now enter a height like e.g. height above sea level or to another reference point by pressing the plus or minus keys. Leave 0.00 ft only if you only want to compare to the reference point measured next.
- Confirm reference setting by pressing

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MENU
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- Measure the following:
- Distance and angle

to reference point by pressing

- Distance and angle
 to measuring point by pressing

- Just press again for further measuring points ...
- In the main line the height difference from the reference point (first measurement) is displayed. The distance from the DISTO ${ }^{\text {TM }}$ reference to the measuring point
 is shown in line 3 of the measurement field.

