

Pro'sKit®

NT-8540 / NT-8560 / NT-8580 Laser Distance Measurer



User's Manual

1st Edition, 2016

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Overview


Please carefully read this product Quick Start to ensure the safe and efficient use of instrument.

Beautiful geometry shows its sharpness and toughness. Soft rubber and anti-skidding lines on the two sides enable a comfortable and reliable gripping. Distance, area/volume, add/subtract and Pythagorean, end-piece are useful to meet most measurement conditions.


Power on / off

Inserting/replacing batteries- Remove battery compartment lid by lifting it gently, insert the provided batteries and close the cover.

Power on

Press to  power on the device, and it will go directly to single distance measurement interface.

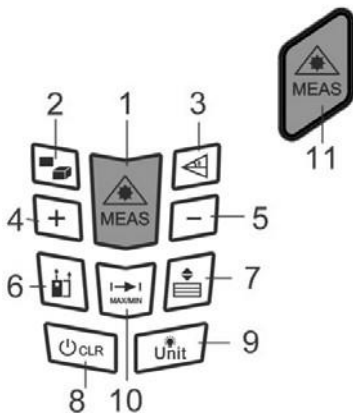
Power off (manually)

Long Press  to switch off the device.

Power off (automatically)

The instrument switches off automatically after three minutes of inactivity.

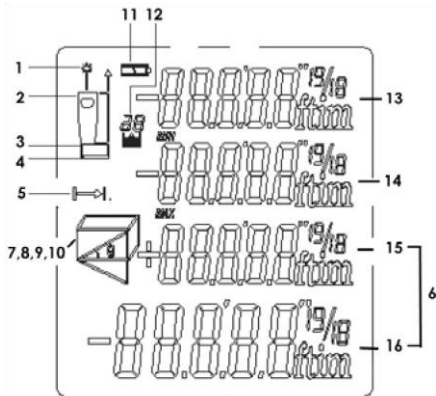
Button functions



1. Power on / Laser on / Measure
2. Area/Volume
3. Pythagorean
4. Addition/Go up
5. Subtraction/Go down
6. Reference point
7. Historical data

8. Clear / Power off
9. Backlight / Unit
10. Continuous measurement
- 11.Side measuring button

Display



1. Laser on
2. Reference point (top)
3. Reference point (bottom)
4. Continuous measurement
5. Recall the
6. Error message, 15 appear "Error", 16 appear error cord.
- 7, 8, 9, 10 auxiliary tools:



Area measurement



Volume measurement





Pythagorean two points






Pythagorean three points

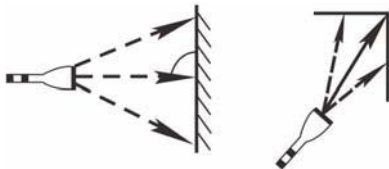
11. Battery status
12. Historical data
13. Value 1 / Min value
14. Value 2 / Max value
15. Value 3
16. Summary line / latest value / calculation result

Single Distance Measurement






Press  MEAS to activate the laser. Press  MEAS again to trigger the distance measurement. The result is displayed immediately.

Continuous Measurement (Min / Max)





Press key to activate continuous  measurement. User can press  MEAS or  CLR to stop the function and the values of maximum and minimum distances are shown in the display as well as the last measured value in the summary line. This function will stop automatically after 5 minutes of inactivity.



Area Measurement

Press   once, the symbol  appears in function field of display. Press  to take the first distance measurement (e.g. Length). Press  again to take the second distance measurement (e.g. width). The results of length, width and area are displayed in the display orderly.



Volume Measurement

Press   twice, the  symbol appears in the function field on the display. Press  to take the first length measurement (e.g. Length). Next get the width, then height, the result of length, width, height and volume is displayed in order.



Indirect Measurement - Pythagorean

Instrument calculates indirect distance using Pythagorean Theorem. Note: Target points should be in the same line. When measuring the 2nd distance, laser beam should be right-angled to the line. **Pythagorean**

Two Points

Refer to figure 1. Press  to activate the function, the  symbol appears in the function field on the display. Take



No. 1, and No. 2 length, the result is displayed on the summary line. Press  to delete any measured length and then press  to re-measure.

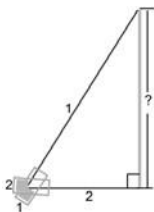




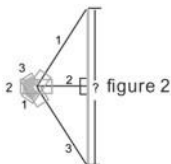


Figure 1

Pythagorean Three Points

The results of length, width and area are displayed in the display in order. Refer to figure 2. Press  four times to activate the function, the symbol  appears in the function field on the display. Take No. 1, No. 2 and No. 3 length, the result is calculated and displayed on the summary line. Press  to delete any measured length and then press  to re-measure.





Backlight

Press **Unit** to turn on and off backlight, to read data on display clearly in darkness. **Unit Change**

Long press **Unit** to change distance unit between m, ft, in and ft+in.


Addition/Subtraction


Take a measurement, then press **+** or **-**, addition/subtraction symbol will appear on display, then press **MEAS** button to take the second measurement, the second value will be automatically added to/subtracted from the first one. Note: This process can be repeated as required.

Cancel/Clear

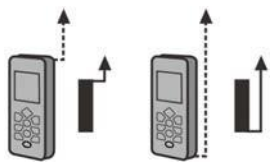
When measuring, press **CLR** to cancel the last action or clear measured data. **Historical data**

Press **☰** to view historical data, the last 20 measured data points will be displayed in reverse order. Press **+** to view the next value. Press **-** to view the previous

value. Press  CLR to quit historical data viewing. **Set up Reference Point**

Press  to switch reference point between the top, bottom and end-piece of the instrument. There is a beep warning tone when reference pint is changed. The default reference setting is from the bottom of the instrument.

The reference point will be set to default every time when it's powered off, I.E. the measuring reference point is from the bottom of the instrument every time when it's powered on.



Troubleshooting

All errors or failures will be shown as codes. The following table explains the meaning of codes and solutions.

Code	Cause	Corrective Measure
204	Calculation error	Refer to user manual, repeat the procedures.

208	Excessive current	Please contact your distributor
220	Battery low	Replace new batteries.
252	Temperature is too high	The external temperature for the instrument should be kept at 0°C-40°C
253	Low temperature	Warm up the device to meet work conditions.
255	Received signal too weak, measurement time too long	Use target plate or change to a better reflective surface.
256	Received signal too strong	Target too reflective use target plate or do not aim at strong light objective.
261	Measure value over range	Please make measurement within its range
500	Hardware error	Switch the device on/off several times. If the symbol still appears, then your instrument is defective. Please call your distributor for assistance.

Specifications

Specification	NT-8540	NT-8560	NT-8580
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Measuring range	0.2~4 0m	0.2~6 0m	0.2~8 0m
Measuring accuracy	±1.5 mm		
Measuring units	m/ft/in/ft+in		
Laser class	Class 2		
Laser type	635 nm, < 1mW		
Area/Volume/Measurement			
Addition/subtraction			
Single distance measurement			
Continuous measurement			
LCD	4-line display with backlight		
Beep			
distance measurement(Min/Max)			
Ingress protection	IP54		
Historical data	20 sets		
Operating temperature	0°C~40°C		
Storage temperature	-10°C~60°C		
Battery type	Type AAA 2 x 1.5V		
Auto laser off	30 seconds		
Auto instrument off	180 seconds		
Dimensions	115*52*32.5 mm		
Weight	113g		

Note:

The maximum measuring range is determined by the version of the meter. Exact measuring range for the laser distance meter is shown on the color packaging box. Range and accuracy are based on typical conditions, may deteriorate under unfavorable conditions such as bright sunlight or poor reflectivity.