

LASER TAPE MEASURE



CONTENTS

SAFETY INFORMATION.....	1
NEED TO KNOW BEFORE USE.....	2
NAMES OF COMPONENTS.....	4
LCD DISPLAY.....	6
SPECIFICATIONS.....	8
HOW TO USE.....	10
LENGTH MEASUREMENT.....	12
AREA MEASUREMENT.....	15
VOLUME MEASUREMENT.....	18
OTHER OPERATION.....	21
MAINTENANCE.....	23

SAFETY INFORMATION

This tool emits a laser beam, which, projects a visible spot on the target surface when the tool is used indoors. The power of the emission of the laser beam is less than 1mW in class II (US version), **so the following warnings must be followed to avoid injury.**

DO NOT stare directly at the laser beam.

DO NOT project the laser beam directly into the eyes of others.

DO NOT set up the tool at eye level or operate the tool on or near a reflective surface, as the laser beam could be projected into your eyes or the eyes of others.

NEED TO KNOW BEFORE USE

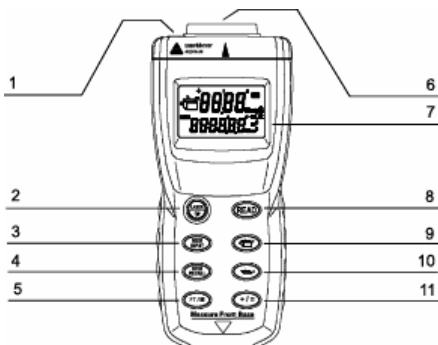
Inaccurate measurement may result from the following:

- * When the battery runs out.
- * When the measured distance is out of the specified range (0.6m to 15m).
- * When another ultrasonic source is nearby.
- * When the unit is not held perpendicularly to the target.

An error message "Err" will be displayed under the following conditions

- * The calculation result exceeded the calculation range as specified.
- * The target surface does not provide good reflection for ultrasonic pulse (i.e. soft and irregular surface such as thick carpet, curtain or irregular wall paper etc.)
- * The distance measured is out of specified range (>15m).

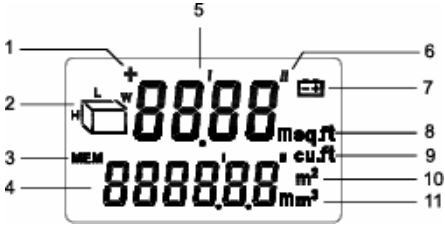
NAMES OF COMPONENTS



1. Laser pointer
2. Laser / back light key
3. Memory input
4. Memory recall
5. Feet / meter conversion key
6. Ultrasonic sensor aperture

7. LCD display
8. On / read / reset (pressing it 3 seconds) key
9. Volume computation
10. Area computation
11. Addition

LCD DISPLAY



1. ADDITION
2. Area / volume L=length, W=width, H=height
3. Memory
4. Memory / computation result
5. Current result
6. Feet
7. Low battery indication
8. Square feet
9. Cubic feet
10. Square meter
11. Cubic meter

SPECIFICATIONS

Recommended use: indoor
 Measurement range: 0.6~15m
 Accuracy: $\pm 0.5\% \pm 1$ digit
 Resolution: 0.01m
 Aperture angle: Approx. $\pm 5^\circ$
 Laser type: 630 ~ 650nm
 Laser power: \uparrow 1mW
 Laser class: class II (US version)
 Battery: 9V 6F22 006P NEDA1604
 Size: 130×50×30mm
 Weight: Approx. 150g

Note:

For accurate measurement, the meter should be used in the following circumstance:

- Temperature: 0~40°C (32°F~104°F)
- Humidity: 40~70%
- Altitude: -0.1~0.1km


HOW TO USE

- Position and point the unit perpendicular to the target.
 The laser pointer will show where the tool is pointing and is only on while a reading is being taken.
- The target must be a hard regular surface unencumbered by objects / obstacles in the measurement field.
- For accurate result, choose a target that is flat and large with hard surfaces.
- put a piece of cardboard in front of the target if the measured target is small, irregular or soft.
- This tool cannot measure through glass even though the laser beam can pass through.
- Measurement is from the base of the unit.
- For avoiding the disturbance from other objects, the measurement had better be taken in the wide or empty space.

WARNING!

Do not stare into Laser beam. Hold tool with beam above or below eye level.

LENGTH MEASUREMENT

- (1) Press the FT/M button, and select the measurement unit.
- (2) Point the unit to the target. Press “” use laser to aim the target when necessary.
- (3) Be sure to accord with the measurement conditions.
- (4) Press the “Read” key, then the unit begin to measure.
- (5) Measured distance is displayed on top of the LCD screen.
- (6) Unit automatically turns itself off after 20 seconds of inactivity.
- (7) Press the “Read” key to restart the unit.



Press "Read"



Press "+/-"



Press "Read" again



Press "+/-" again





MEASUREMENT ADDITION

- (1) Press “Read” for measurement.
- (2) Press “+/-” to enter the addition mode. A “+” icon will appear on LCD.
- (3) Press “Read” again for second measurement.
- (4) The second measurement result will be displayed on top of LCD screen.
- (5) Press “+/-” again, then the addition length will be displayed on the second line of the LCD.
- (6) When need add length times, repeat the step (3) to (5).

Note: When press “Read” 3 seconds, the unit will revert to original length measurement state.

AREA MEASUREMENT

- (1) Press the “” key to enter area mode for calculation of a room area.
- (2) “L” will blink showing which measurement you will be taking. Press “Read” to take “L” measurement that is displayed on upper portion of screen.
- (3) “W” will blink showing the next measurement to take. Press “Read” to take “W” measurement that is displayed on upper portion of screen.
- (4) Then the area is automatically displayed on the lower portion of the screen.
- (5) Press “Read” again will toggle back and forth between the “L” and “W” measurements.
- (6) To start another area mode, press “” again.
- (7) Press “FT/M” to alter the measurement unit which you want.



Press "Read"



Press "+/-"




Press "Read" again



Press "+/-" again





AREA ADDITION

- (1) Press “Mem input” to save the calculated area.
- (2) Press “” to measure new area.
- (3) After getting the desired area, press “+/-” to enter the addition mode. A “+” icon would appear on LCD.
- (4) Press “Men recall” to recall the first calculated area for the addition. The “MEM” icon will disappear and the stored memory will be automatically cleared.
- (5) Press “+/-” again, the sum of both areas is shown on bottom.
- (6) When need add area times, repeat the above steps.


Note: When press “Read” 3 seconds, the unit will revert to original length measurement state.

VOLUME MEASUREMENT

- (1) Press “” to enter Volume mode for calculation of a room volume.
- (2) “L” will blink showing which measurement you will be taking. Press “Read” to take “L” measurement that is displayed on upper portion of screen.
- (3) “W” will blink showing the next measurement to take. Press “Read” to take “W” measurement that is displayed on upper portion of screen.
- (4) “H” will blink showing the next measurement to take. Press “Read” to take “H” measurement that is displayed on upper portion of screen.

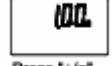
- (5) Then the Volume is automatically displayed on the lower portion of the screen.
- (6) Press "Read" again will toggle back and forth between "L", "w" and "H" measurements.
- (7) To start another Volume mode, press " " again.
- (6) Press "FT/M" to alter the unit which you want.

VOLUME ADDITION

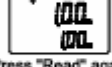
- (1) Press "Mem input" to save the calculated volume.
- (2) Press " " to measure new volume.
- (3) After getting the calculated volume. Press "+/= " to enter the addition mode. A "+" icon will appear on LCD.
- (4) Press "Mem recall" to recall the first volume for the addition. Then "MEM" icon will disappear and the stored memory will be automatically cleared.
- (5) Press "+/= " again, the sum of both volume is shown on bottom.
- (6) When need add volume times, repeat the above steps.



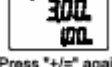
Press "Read"



Press "+/= "



Press "Read" again




Press "+/= " again



Note: When press "Read" 3 seconds, the unit will revert to original length measurement state.

Other operation


- 1  key
 - Controlling the laser and back light. Press the key in short time (about 1 second) for controlling laser, and press over 1 second time for controlling back light.

Note: When the laser or back light is working, all the other keys are not available.
- 2 "Mem input" key
 - inserts a Length, area or volume into memory. The "MEM" icon will appear.
- 3 "Mem recall" key
 - Displays the last stored memory. The "MEM" icon will disappear and the stored memory will be automatically cleared.

MAINTENANCE

- This tool is a precision instrument which must be handled with care.
- Avoid shock, vibrations and extreme heat.
- Keep the tool dry and clean.
- check battery regularly to avoid deterioration.
- Remove battery if the tool is to be stored for an extended period of time.

Battery replacement

If the sign " " appears on the LCD display, it indicates that the battery should be replaced. Open the case on the back cover. Replace the exhausted battery with a new one.