

Ultrasonic Distance Meter with Laser Tape

Using the specialty of the ultrasonic spreading in the air, emit ultrasonic beam to measure the real distance from a point to surface. Accomplish the measure of beeline, area, volume in the mean time. Accumulations of sameness property data, storage, resume. Conversion unit between feet, inch and metric system. LCD display, soft push electric conduction rubber keyboard, laser indicator. LCD displays all when replacing battery.

CAUTION

- 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 operates the tool on or near a reflective surface, as the laser beam could be projected into your eyes or the eyes of others.

READ PRIOR TO OPERATION

Inaccurate measurement may result from the following:

- 1) When the measured distance is out of the specified range (2' to 50' / 0.6 to 15m).
- 2) When the battery runs out.
- 3) When another ultrasonic source is nearby.
- 4) When the unit is not held perpendicularly to the target.
- 5) When there don't have a good ultrasonic reflecting interface for the object.

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

- 1) When the measured distance is out of specified range (2' to 50' / 0.6 to 15m).
- 2) When the target surface does not provide good reflection for ultrasonic pulse (i.e. soft and surface such as thick carpet, curtain or irregular wall paper etc).

FEATURE

1) KEYBOARD

"READ"

- *Point to wall and get measure distance by pressing "READ".
- *For dynamic read, press and hold "READ" key to get measure distance displayed while the unit is moving.
- *Each measure erases previous one.
- *Measure distance is displayed on top of the LCD screen.
- *When the unit is in sleeping mode, press "READ" to resume.

"FT/M"

- Unit conversion between feet, inches, and Metric system
- *Unit conversion between feet, inches, and Metric system for displaying data, you will not lose your readings when changing this mode.

*Press "FT/M" once, unit will be convert from feet to meter. Applicable to length, area and volume.

"MEM INPUT"

- *Press "MEM INPUT" to save measure data in memory, the "MEM" icon will appear on LCD.

"MEM RECALL"

- Display the last stored memory.
- *Press "MEM RECALL" to display stored memory, the "MEM" icon will disappear and stored memory will be automatically cleared.

"+/=" ADDITION

Press "+/=" to enter the addition mode.

The different operation among length, areas, volumes addition mode.

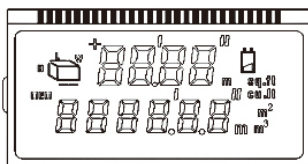
Area computation

- *Press "□" into area computation mode.

Volume computation

- *Press "⊞" into volume computation mode.

2) LCD GRAPHICS



TECHNICAL SPECIFICATIONS

- *Recommended use: indoor
- *Measure range: 2 Feet~50 Feet
- *Accuracy: ±3 inches for 50Feet (±0.075 meters for 15 meters)
- *Power supply: Requires one DC9V 6F22 battery to operate
- *Battery life: 10 hours of continuous dynamic measurement with alkaline battery.
- *Standby current: not larger than 1mA
- *Sleeping current: not larger than 85uA
- *Automatically turn off time: the unit will automatically turns itself off after 30 seconds of inactivity
- *Calculation range:
Length: 9999 Feet (9999m)
Area: 999999 sq ft(99999m²)
Volume: 999999 cu ft(99999m³)
- *Operation temperature: 32F to 104F (0°C ~40°C)
- *Still air and hard surface for accurate measurement.
- *For long distance measurement (between 40' to 50' / 12m to 15m) the relative humidity should be above 48% and target size of at least 10ft. by 10ft/3m by 3m

OPERATION INSTRUCTION

(Length, area, volume measurement)

1) Length

- Length measurement and addition (w/o using MEM)
- *Press "READ" for measurement
- *Press "+/=" to enter the addition mode, A "+" icon will appear on LCD, the sum will appear on bottom of LCD.
- *Press and hold "READ" again for second measurement.
- *Press "+/=" again the sum is shown on bottom of LCD.
- *Follow above steps for multi-length accumulation.
- *Renew another accumulation by press "+/=" twice to eliminate data display on LCD.
- Length measurement and addition (using MEM)
- *Press "MEM INPUT" to save the desired measurement for addition.
- *Press "READ" for new measurement.
- *After getting the new measurement, press "+/=" to enter the addition mode, A "+" icon will appear on LCD, the sum will appear on bottom of LCD.
- *Press "MEM RECALL" to recall previous measurement for the addition. The "MEM" icon will disappear and the stored memory will be automatically cleared.
- *Press "+/=" again the sum is shown on bottom of LCD.
- *Follow above steps for multi-length accumulation.
- *Renew another accumulation by press "+/=" twice to eliminate data display on LCD, but not the stored memory

2) Area

Area computation

- *Press "□" to enter area mode for calculation of a room area.
- *Step 1: "L" will blink showing which measurement you will be taking.
- Press "READ" to take "L" measurement that is display on upper portion of screen.
- *Step 2: "W" will blink showing which

measurement you will be taking.

*Then the area (LXW) is automatically displayed on the lower portion of the screen.

*Press the "READ" key again will toggle back and forth between the "L" and "W" measurements.

*To start another area mode, press "□" key again.

*To leave the area mode to make a single measurement, press and hold "READ" key for about 2 seconds.

*Important Note.

Before press and hold "READ" key to leave the Area mode, the measurement of "L" & "W" must be completed first.

Addition of areas under area mode:

*Press "MEM INPUT" to save the calculated area.

*Press "□" to measure new area.

*After getting the desired area, press "+/=" to enter the addition mode. A "+" icon will appear on LCD.

* Press "MEM RECALL" to recall first calculated area for the addition. The "MEM" icon will disappear and the stored memory will be automatically cleared.

* Press "+/=" again the sum of both area is shown on bottom of LCD.

*Follow above steps for multi-area accumulation.

3) Volume

Volume computation

*Press "⊞" to enter volume mode for calculation of a room volume.

*Step 1: "L" will blink showing which measurement you will be taking.

Press "READ" to take "L" measurement that is display on upper portion of screen.

*Step 2: "W" will blink showing which measurement you will be taking.

Press "READ" to take "W" measurement that is display on upper portion of screen.

*Step 3: "H" will blink showing which measurement you will be taking.

Press "READ" to take "H" measurement that is display on upper portion of screen.

*Then the volume (LXWXH) is automatically displayed on the lower portion of the screen.

*Press the "READ" key again will toggle back and forth between the "L", "W", "H" measurements.

*To start another volume mode, press "⊞" key again.

*To leave the volume mode to make a single measurement, press and hold "READ" key for about 2 seconds.

*Important Note.

Before press And hold "READ" key to leave the Volume mode, the measurement of "L", "W" & "H" must be completed first.

Addition of volume under volume mode:

*Press "MEM INPUT" to save the calculated volume.

*Press "⊞" to measure new volume.

*After getting the desired volume, press "+/=" to enter the addition mode. A "+" icon will appear on LCD.

* Press "MEM RECALL" to recall first calculated volume for the addition. The "MEM" icon will disappear and the stored memory will be automatically cleared.

* Press "+/=" again the sum of both volume is shown on bottom of LCD.

*Follow above steps for multi-volume accumulation.

FT/M

1 foot=12 inches=0.3048 meter

1 square foot = 144 square inches = 9.29 square decimeters

1 cubic foot = 1728 cubic inches = 0.0283 cubic meters