

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, are, 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 stares directly at the laser beam.

DO NOT projects 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) KETBOARD "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

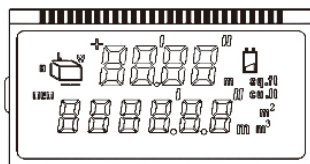
Press "+=" to enter the addition mode.

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

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

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超音波測距儀

利用超音波在空氣中傳播的特性，測量音波在發射後遇到障礙物反射的時間來量測點到面的距離。完成各個直線距離量測後，面積或體積即同時換算出。同屬性資料的累積，儲存，恢復。可轉換英尺、吋及公制單位。具有液晶顯示，柔軟的橡膠按鍵，雷射指標。電池更換時 LCD 會顯示全部螢幕中所有的內容

警告

不要直視雷射光

雷射光不要直接對著別人的眼睛照射。量測操作時，不要將產品放置在眼睛附近的高度，或是在有可以反射表面的物體附近操作產品，因為雷射光有可能會照射到你的或別人的眼睛。

操作注意事項

下列情況可能會造成量測結果不準確：

- 1) 量測距離超過可量測範圍
(2' ~50' /0.6~15m)
- 2) 電池耗盡，電力不足
- 3) 附近有其他的超音波來源
- 4) 使用產品沒有與量測目標垂直時
- 5) 測量物沒有好的超音波反射介面

當有下列的狀況時，顯示器會出線錯誤的訊息 "Err"：

- 1) 當量測距離大於可量測範圍
(2' ~50' /0.6~15m)
- 2) 當測量目標物表面無法反射超音波的脈沖(如柔軟的或是不規則型狀的表面,如厚毯子、窗簾或是不規則形狀的壁紙)。

產品特色及介紹

1) 按鍵

READ 鍵

*量測點到牆面的距離時，按"READ"鍵動態量測：當產品在移動中，持續按住"READ"鍵以得到量側距離值。

*每一次的量測都會覆蓋掉前一個量測值
*距離的量測值會顯示在 LCD 最上面一排字
*當產品處於睡眠模式，按"READ"鍵即可重新開始。

FT/M 鍵

*單位轉換鍵，可將公/英制單位轉換
*顯示的資料公/英制單位轉換，當轉換時不會失去你的量測值
*按一次"FT/M"單位即可從英呎轉換為公尺，適用於長度、面積及體積的量測單位轉換

MEM INPUT 鍵

*按"MEM INPUT"鍵，可將量測儲存到記憶體內，同時在 LCD 螢幕上會顯示"MEM"字樣

MEM RECALL 鍵

*顯示最後一個儲存的記憶
*按"MEM RECALL"鍵來顯示儲存的記憶，這時"MEM"會消失並且儲存的記憶將自動清除。

"+/=" 相加鍵

*按"+/="鍵來進入相加模式

*使用此功能模式來做長度，面積及體積加總

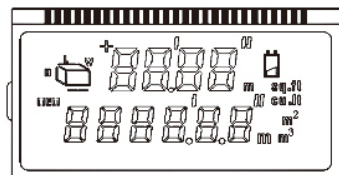
面積計算鍵

按下" "鍵進入面積計算模式

體積計算鍵

按下" "鍵進入體積計算模式

2) LCD 圖示



規格說明

- *建議在室內使用
- *量測範圍: 2 英尺~50 英尺
- *準確度: 50 英尺±3 英寸(15 公尺±0.075 公尺)
- *電源: 6F22 的 9V 電池 1 顆
- *電池可待機 10 小時
- *待機電流:不可大於 1mA
- *睡眠電流: 不可大於 85uA
- *當靜止 30 秒後,產品會自動關機
- *計算範圍
長度: 9999 Feet (9999m)
面積: 999999 sq ft(99999m²)
體積: 999999 cu ft(99999m³)
- *操作溫度: 32°F to 104°F (0°C~40°C)
- *在平靜無風狀態及堅硬的表面可精準量測
- *長距離量測 (距離介於 40~50 /12m ~15m), 相對溼度應該在 48%以上,測量目標物尺寸不能小於 10ft X 10ft / 3mX3m.

操作方法(長度,面積,體積量測)

1) 長度：

長度量測及加總(不使用記憶功能)
*按"READ"鍵進行測量
*按"+/="鍵進入加總模式，此時 LCD 會出現" + "的符號，總數會顯示在 LCD 下方
*再按一次"READ"鍵進行下一個量測，
*再按"+/="鍵，總數會顯示在 LCD 下方
*接下來重覆多次同樣的步驟可累加數個長度
*更新另外的累計值時需按兩次"+/="來消除 LCD 上的顯示值。

長度量測及加總(使用記憶功能)

*按"MEM INPUT"鍵來儲存要加總的量測值
*按"READ"鍵進行新的測量
*得到新的量測值後，按下"+/="鍵進入加總模式，此時 LCD 會出現" + "的符號，總數會顯示在 LCD 下方。
*按"MEM RECALL"鍵來呼叫前一個要加總的量測值。此時 LCD 上的"MEM"符號會消失並且儲存的記憶將會被自動清除
*再按"+/="鍵，總數會顯示在 LCD 下方
*接下來重覆多次同樣的步驟可累加數個長度
*更新另外的累計值時需按兩次"+/="來消除 LCD 上的顯示值，但不會消除記憶值。

2) 面積：

計算面積

按" "鍵進入面積計算模式

*步驟 1:" L " 將會出現閃爍，顯示將要量取的為長度值
按"READ"鍵來讀取長度的量測值，此時長度值會出現在螢幕的較上方。
*步驟 2:" W " 將會出現閃爍，顯示將要量取的為寬度值

*然後面積(長 x 寬)會自動計算並且顯示在螢幕的較下方

*再按一次"READ"鍵將會回到原來的長度及寬度的量測數值。

*按" "鍵即開使另一次面積的計算

*要離開面積模式回到單長度量測，按住"

"READ"鍵 2 秒，變更測量模式

*重要備註

在按下"READ"鍵離開面積模式之前，必須先完成長度及寬度的量測

面積模式下的面積加總

*按"MEM INPUT"鍵來儲存已計算的面積
*按" "鍵來量測新的面積
*得到需求的面積後，按下"+/="鍵進入加總模式，此時 LCD 會出現" + "的符號
*按"MEM RECALL"鍵來呼叫第一個計算的面積值。此時 LCD 上的"MEM"符號會消失並且儲存的記憶將會被自動清除。
*再按一次"+/="鍵，2 組面積值的總數會顯示在 LCD 下方
*接下來重覆多次同樣的步驟可累加數個面積

3) 體積：

計算體積

*按" "鍵進入體積計算模式

*步驟 1:" L " 將會出現閃爍，顯示將要量取的為長度值
按"READ"鍵來獲取長度的量測值，此時長度值會出現在螢幕的較上方。
*步驟 2:" W " 將會出現閃爍，顯示將要量取的為寬度值
按"READ"鍵來獲取寬度的量測值，此時寬度值會出現在螢幕的較上方。
*步驟 3:" H " 將會出現閃爍，顯示將要量取的為高度值
按"READ"鍵來獲取高度的量測值，此時高度值會出現在螢幕的較上方。
*然後體積(長 x 寬 x 高)會自動計算並且顯示在螢幕的較下方
*再按一次"READ"鍵將會回到原來的長度，寬度及高度的量測數值顯示
*再按" "鍵即開使另一次體積的計算
*要離開體積模式回到單長度量測，按住" " "READ"鍵 2 秒
*重要備註
在按"READ"鍵離開體積模式之前，必須先完成長度、寬度及高度的量測

體積加總

*按"MEM INPUT"鍵來儲存計算的體積
*按" "鍵來量測新的體積
*得到需求的體積後，按下"+/="鍵進入加總模式，此時 LCD 會出現" + "的符號
*按"MEM RECALL"鍵來呼叫第一個計算的體積值。此時 LCD 上的"MEM"符號會消失並且儲存的記憶將會被自動清除。
*再按"+/="鍵，2 組體積值的加總數會顯示在 LCD 下方
*接下來重覆多次同樣的步驟可累加數個體積。

FT/M

1 英尺=12 英寸=0.3048 公尺

1 平方英尺=144 平方英寸=0.0929 平方公尺

1 立方英尺=1728 立方英寸=0.0283 立方公尺

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