

# 用户手册

## User's Manual



**BLDM-HC40**

**BLDM-HC60**

激光测距卷尺

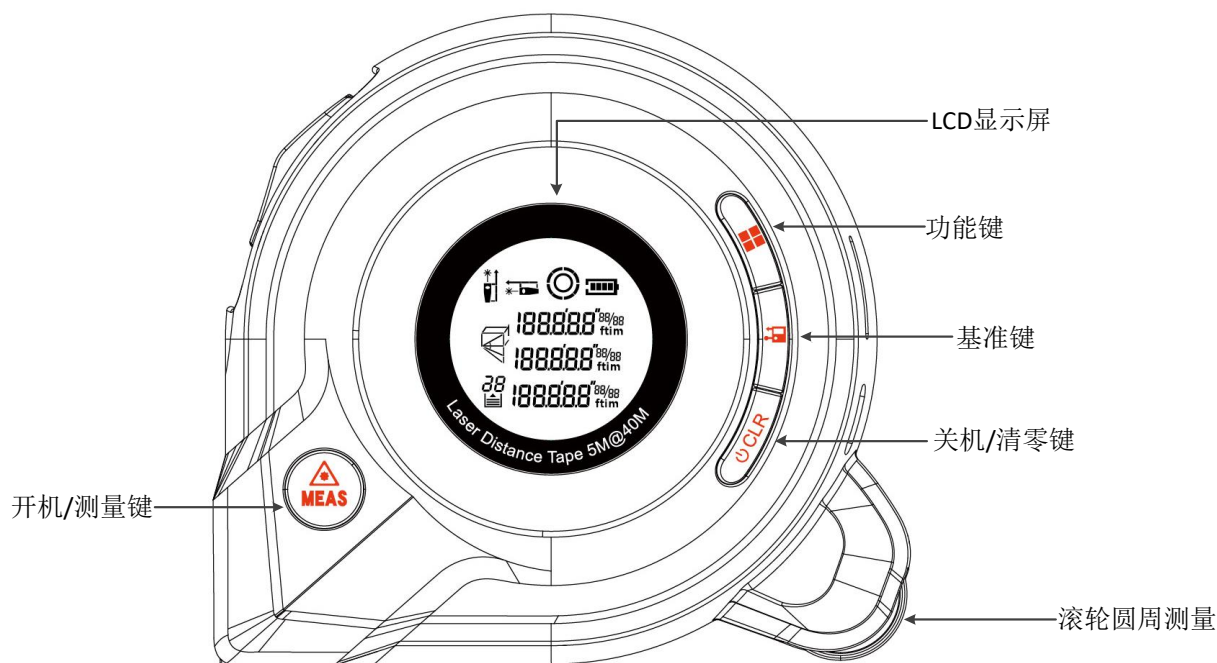
Laser Distance Tape

# 用户须知

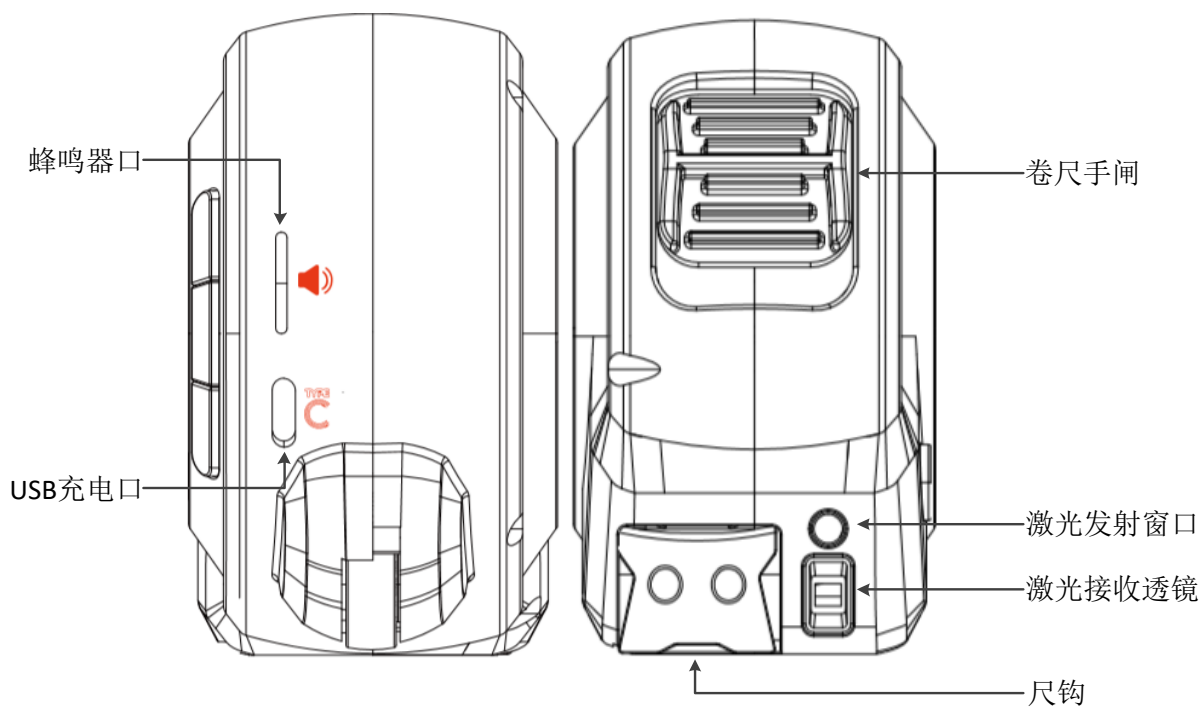
- ★ 本手册详细介绍了产品的使用方法、注意事项以及相关事项，在使用产品之前，请仔细阅读用户手册，以便发挥产品的最佳效能。
- ★ 不要在易燃、易爆环境中使用本产品。
- ★ 报废的仪器不可与生活垃圾一同处理，请按国家或当地的相关法律法规处理。
- ★ 仪器出现任何的质量问题，或对使用仪器有任何疑问时，请及时联系当地经销商或厂家，我们将第一时间为您解决。

# 产品说明

## ★ 显示屏、按键




激光卷尺正面示意图



激光卷尺前后端示意图

## 基本操作

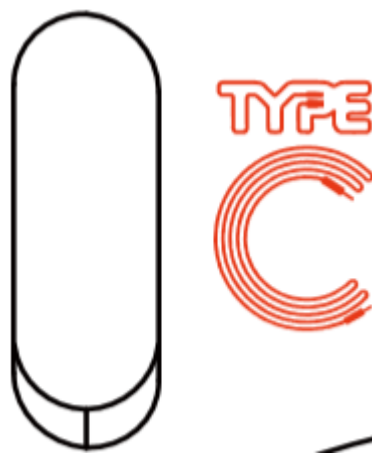
### ★ 1、启动仪器和关闭仪器

在关机状态下，按开机测量键，仪器开启，同时启动激光，仪器进入待测模式。

本仪器为自动关机，150 秒无操作自动关机。

### ★ 2、仪器充电

本仪器内部为锂电池直充电池，充电接口为通用 TYPE-C 接口，可以使用市面手机充电座充电；





USB 充电示意图

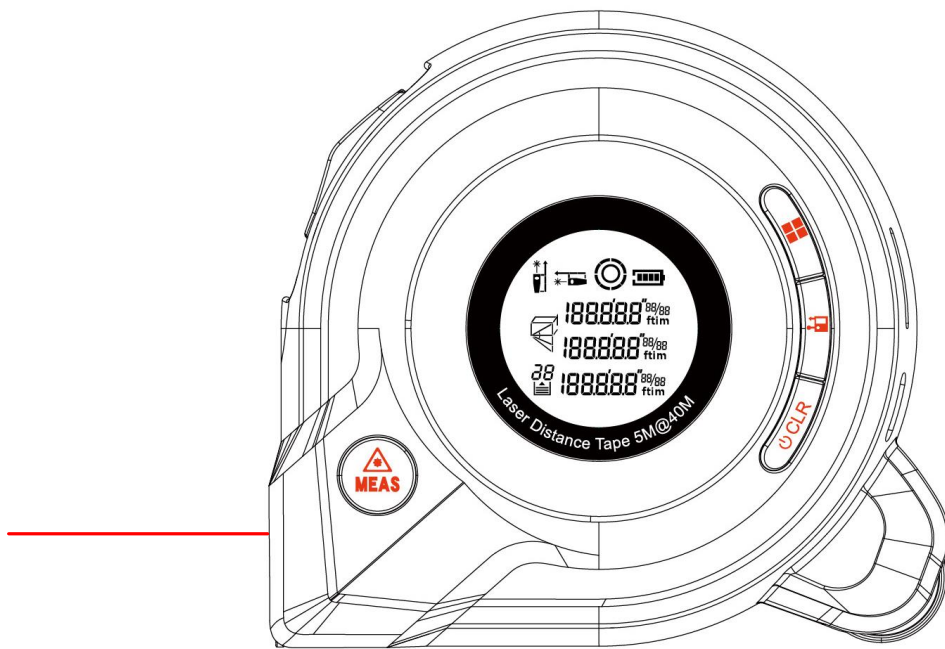
当仪器电量不足时，显示屏右端电池指示符号会显示电量不足，有语音功能仪器同时提示“电量不足，请及时充电”。

仪器充放电，仪器充满电后正常使用在一周左右，每次充电时间为 4 小时左右，有语音功能仪器同时提示“充电已完成”。

### ★ 3、基本测量

#### a、 单次测量

在待测模式下，按测量键启动激光，锁定测量点，再按测量键进行单次距离测量，测量结果显示在主显示区。






激光卷尺测量示意图

#### a、 连续测量





在待测模式下，长按测量键，进入连续测量模式，主显示区实时显示当前测量的最大值和最小值，短按清零键，即可退出连续测量。

## ★ 4、功能测量

### a、 面积测量




按功能键进入面积测量模式，此时显示屏的长方形的边长光标在闪烁，此时按键测量键，即可测量出长方形的边长，对应的数据会显示在主显示区域；此时长方形的宽光标再次闪烁，再按测量键，即可测量出长方形的宽，对应的数据会显示在主显示区域，最后的面积数据会显示在主显示区域最下方。

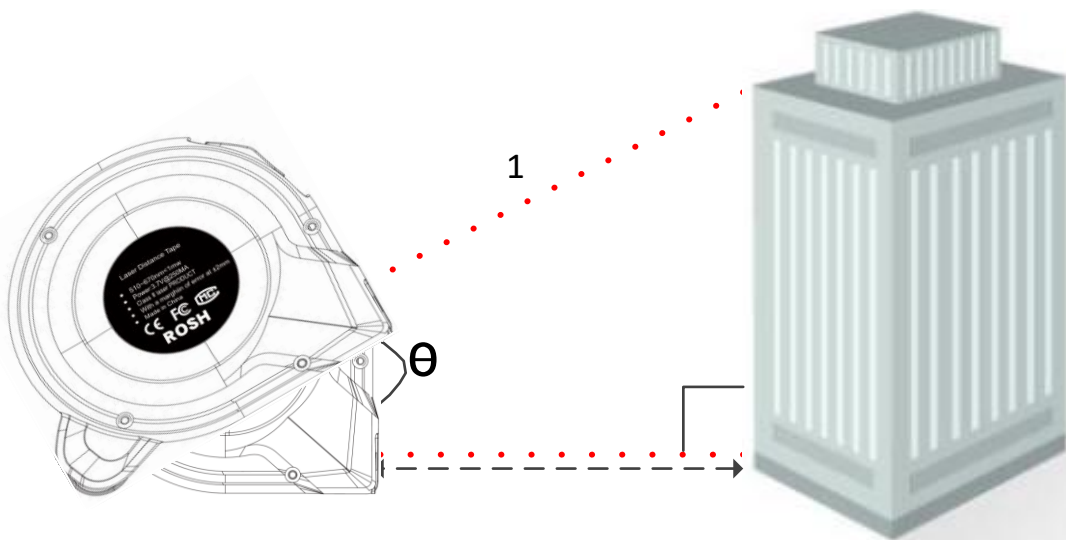
### b、 体积测量

按功能键两次进入体积测量模式，此时显示屏的长方体的边长光标在闪烁，此时按键测量键，即可测量出长方体的边长；对应的数据会显示在主显示区域，此时长方体的宽光标再次闪烁，再按测量键，即可测量出长方体的宽，对应的数据会显示在主显示区域，此时长方体的高光标再次闪烁，再按测量键，即可测量出长方体的高，对应的数据会显示在主显示区域，最后的体积数据会显示在主显示区域最下方。

### c 、 勾股定理间接测量


## 测量斜边和底，间接测量高度



连续按功能键三次进入一次勾股测量模式，此时显示屏显示三角形斜边 a，此时按键测量键，即可测量出三角形的斜边 a；对应的数据会显示在主显示区域，此时三角形的底边 b 也在闪烁，再按测量键，即可测量出三角形的底边 b，对应的数据会显示在主显示区域，最后三角形的高，数据会显示在主显示区域最下方。

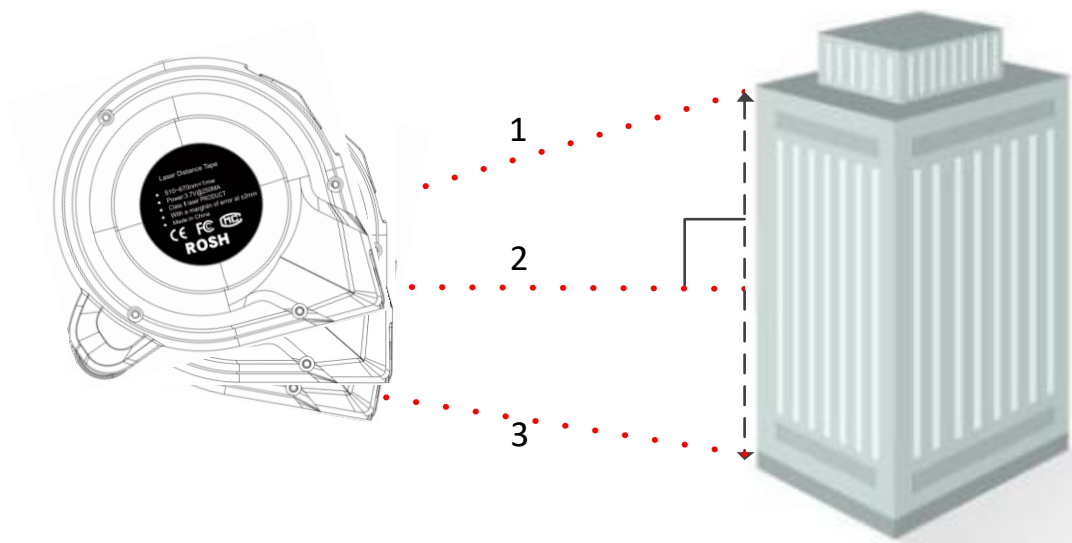


一次勾股测量示意图

## 测量直角三角形的两直角边，间接测量斜边长度


连续按功能键四次进入二次勾股测量模式，此时显示屏显示三角形斜边 a，

此时按键测量键，即可测量出三角形的斜边 a；对应的数据会显示在主显示区域，此时三角形的底边 b 也在闪烁，再按测量键，即可测量出三角形的底边 b，对应的数据会显示在主显示区域，最后三角形的另一条斜边 c，数据会显示在主显示区域最下方。




二次勾股测量示意图

#### d\ 圆周测量

连续按功能键五次进入圆周测量模式，往前推动卷尺即可增加数据，往后推动卷尺数据会减小，最大测量为 999 米。

#### ★ 5、单位切换



本仪器支持四种单位转换，分别是 m、in、ft、ft+in，长按功能键即可进入单位切换。

## ★ 6、自动校准

为了保证仪器的精准度，提供了仪器自动校准功能。

关机状态下，同时按住开机键和功能键即可进入自动校准页面。待屏幕出现“CAL”字符，就是校准页面，此时用户可根据仪器的误差按测量键对数字进行调整，调整范围为-9 ~ 9mm。调整完成后长按 1 秒测量键即可保存调整后的数据。

## ★ 8、数据存储与查询

本仪器支持 20 组数据存储，长按功能键即可进入数据查询页面，此时按基准键上翻数据、按清零键下翻数据。

## ★ 9、仪器关机

长按关机键，即可关闭仪器。

提示信息

代码	原因	解决方法
204	计算错误	按用户手册，重新操作
208	电流超标	请与经销商联系
220	电量不足	请及时充电
252	温度太高	仪器工作温度 0 ~ 50°C
253	温度太低	请给仪器升温
255	接收反射光弱	请加反光板
256	接收信号过强	请不要对准强光
261	距离量程超标	请在仪器的标准范围之内测量
500	硬件故障	请联系经销商

## 技术参数

项目	HC40	HC60
最大测量距离	40M	60M
测量精度	$\pm (2\text{mm}+d*\text{万分之一})$	
连续测量	√	
面积测量	√	

体积测量	√
圆周测量	√
最大值/最小值	√
激光等级	Class II
激光类型	520~670nm <1mw
数据存储	20 组
自动关机	√
声音提示	中英文
使用电池	USB 充电 250MA
存储温度	-20°C~70°C
存储湿度	RH85%
工作温度	0~50°C
电子水平尺	√
蓝牙	√
仪器重量	

## 版权声明

上述产品规格如有变动，恕不另行通知，所有解释权归生产制造商所有。所有商标、图片、技术参数版权及所有权归生产制造商所有，侵权必究。

## 装箱清单

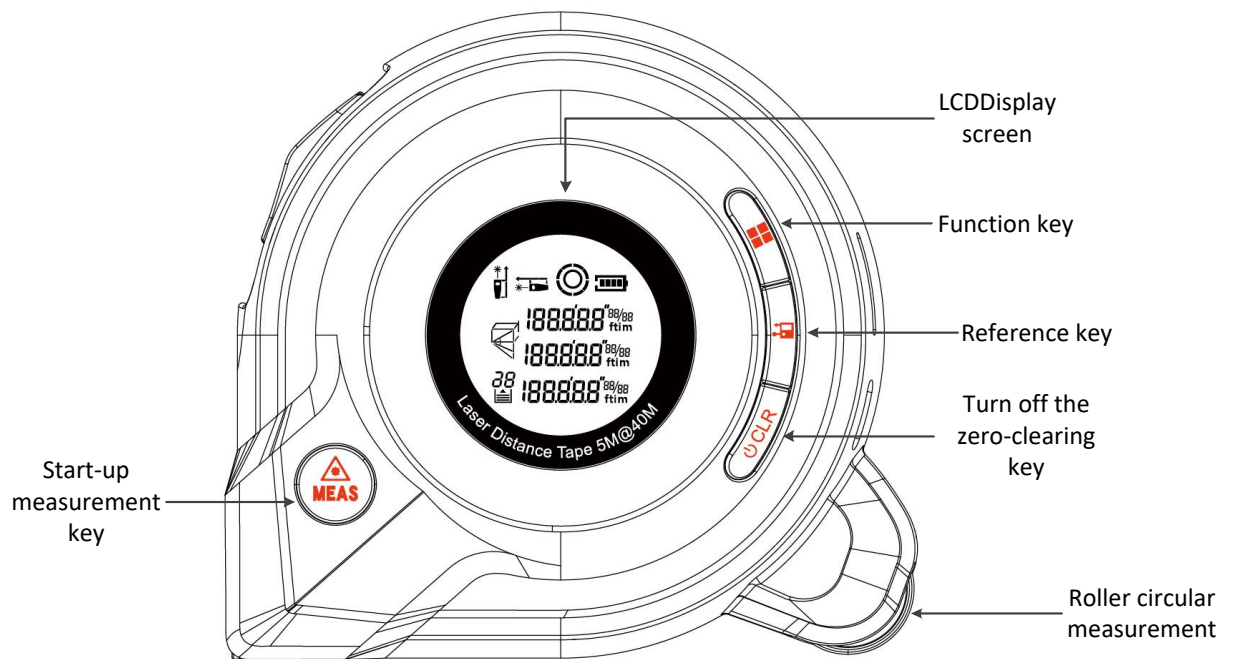
项目	名称	单位	数量	备注
1	主机	台	1	
2	彩盒	个	1	
3	用户手册	本	1	
4	保修合格证	张	1	
5	USB 线	根	1	

## User's Notice

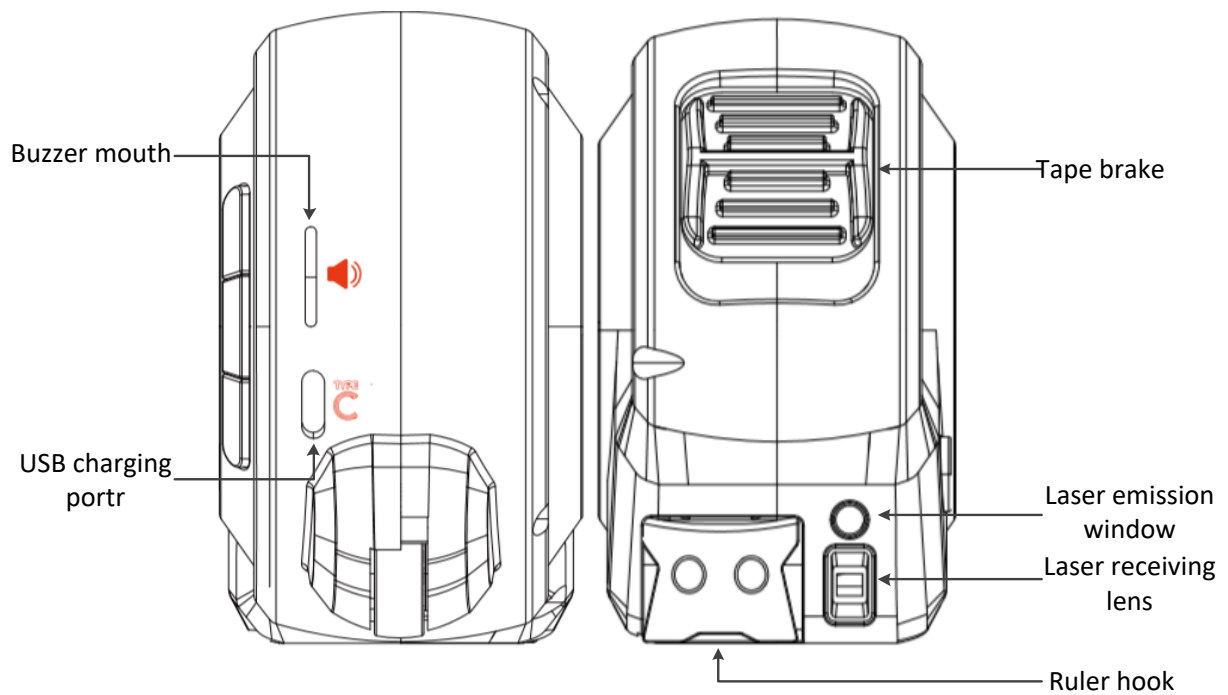
- ★ This manual introduces in detail the use of products, points for attention and phase, please read the user's manual in detail before using the product.
- ★ Do not use this product in flammable and explosive environment.
- ★ Scrap equipment cannot be treated with domestic waste, please press the country or when The relevant laws and regulations of the land.
- ★ Any quality problems with the instrument, or any questions about the use of the instrument please contact local dealers or manufacturers in time, we will be the first time. solve for you

## Product description

### ★ Display screen、Key




Front sketch of laser tape measure



Schematic diagram of front and rear end of laser tape measure

## Basic operation

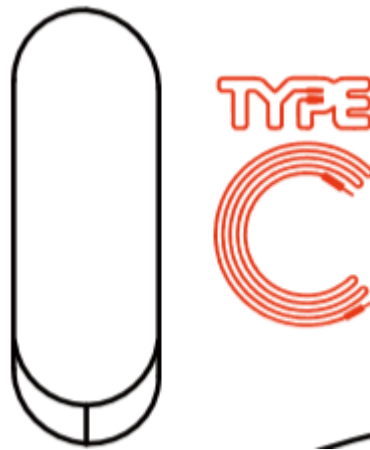
- ★ 1、 Start the instrument and turn off the instrument

In the off state, Press the boot measurement key , Instrument open, start the laser at the same time, the instrument enters the mode to be measured.

The instrument is automatic shutdown, Automatic shutdown without operation for 150 seconds.

- ★ 2、 Instrument charging

The interior of the machine is a direct-charged lithium battery, the charging interface is universalTYPE-C interface, can use the market mobile phone charging seat to charge;



USB Charging diagram



When the power of loyalty is insufficient, the battery indicator at the right end of the display will show insufficient power, there is a voice function instrument at the same time suggest that the power is insufficient,please charge in time.

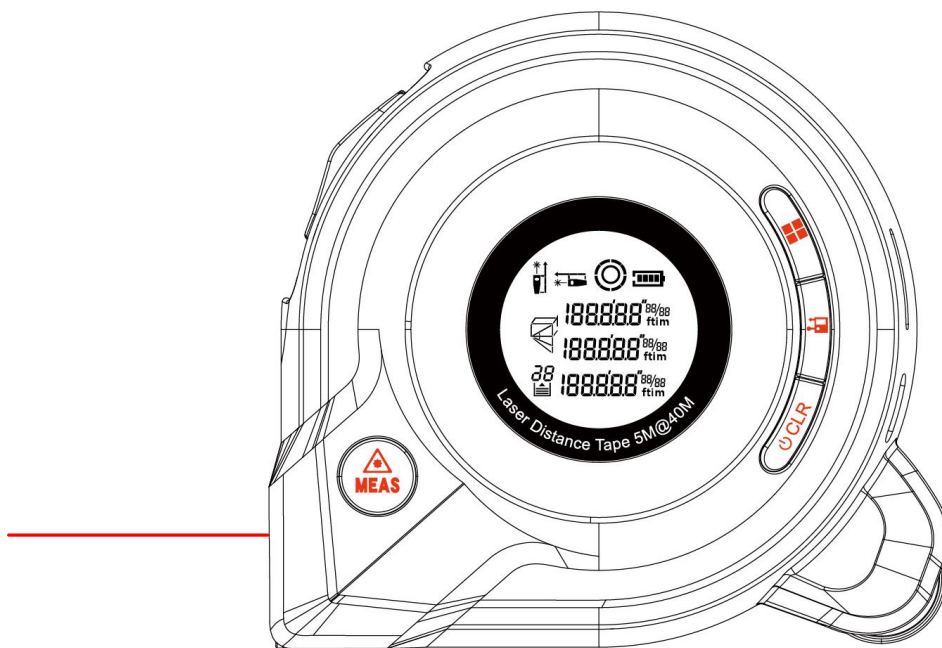
Instrument charge and discharge, the instrument is used normally for about a fully charged, Each charging time is about four hours, there is a voice function instrument at the same time suggesting that the charging has been completed.

★ 3、Basic measurement





## b、 Single measurement

In untested mode, press measurement key  start laser, Locked measuring point, press the measuring key  make s single distance measurement, the measurement results are shown in the main display area.






Sketch of laser tape measure

## b、 Continuous measurement



In untested mode , Long press measuring key  , Enter continuous measurement mode, the main display area display the maximum and minimum values of the current measurement in real time, short press the zero-clearing button  , you can exit the continuous measurement.



★ 4、Function measurement

c、 Area measurement

Press function key  enter area measurement mode, the rectangular side-length cursor of the display is flashing, press the measuring key at this time , the side length of the rectangle can be measured, the corresponding data is displayd in the main display area; at this point the wide cursor of the rectangle flashes again, press the measuring key again , the width of the rectangle can be measured, the corresponding data is displayd in the main display area, the final area data will be displayed at the bottom of the main display area.




d、 Volume measurement

Press function key  twice enter volume measurement mode , the rectangle-side cursor on the display is flashing, press the measuring key at this time , the side length of the cuboid can be measured; the corresponding data is displayd in the main display area, the wide cursor of the cuboid flickers

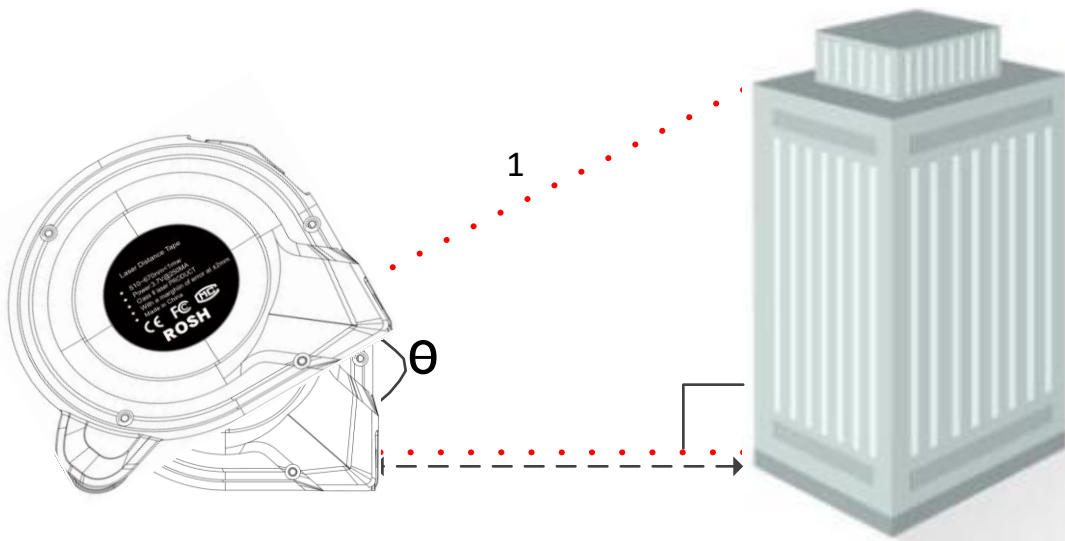
again, press the measuring key again , the width of the cuboid can be measured, the corresponding data is displayed in the main display area, the cuboid's high cursor flashes again, press the measuring key again , the height of the cuboid can be measured, the corresponding data is displayed in the main display area, the final volume data is displayed at the bottom of the main display area.

#### c 、 Indirect measurement by Pythagorean theorem

measuring bevel edge and bottom, indirect measurement height

Press the function key  three times in a row to enter a hook stock measurement mode, at this point the display shows the triangle bevel a, press the measuring key at this time , the bevel of the triangle can be measured. The corresponding data is displayed in the main display area, at this point the bottom edge of the triangle is also flashing B, press the measuring key again , the bottom edge of the triangle can be measured B, the corresponding data is displayed in the main display area, the height of the last triangle, the


data is displayed at the bottom of the main display area.




Sketch of one-time hook-up measurement

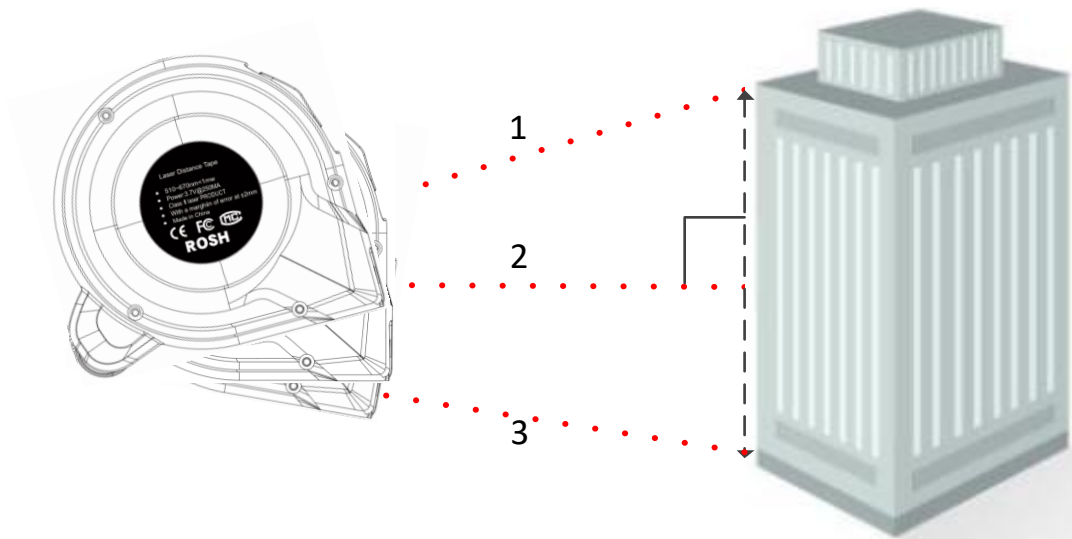
Measure the two right angles of a right triangle and indirectly measure the length of the bevel

Press function key continuously  four times, enter the secondary Pythagorean measurement mode, at this point the display shows the triangle

bevel A, Press the measuring key at this time , the bevel of the triangle can be measured A; the corresponding data is displayed in the main display area,


at this point the bottom edge of the triangle is also flashing B, press the measuring key again , the bottom edge of the triangle can be measured

B, the corresponding data is displayed in the main display area, the other bevel of the last triangle C, the data is displayed at the bottom of the main display area.



Sketch of secondary Pythagorean measurement

#### d、 Circular measurement

Press the function key five times in a row , enter the circle measurement mode, push the tape measure forward to increase the data, push the tape back and the data will decrease, the maximum measurement is 999 meters.

#### ★ 5、 Unit switching

The machine supports four unit transformations, respectively m、in、ft、ft+in, Long press reference key  you can enter the unit conversion

## ★ 6、 Automatic calibration

In order to ensure the accuracy of the instrument , the automatic calibration function of the instrument is provided.

In the off state, at the same time press and hold the boot button and function keys to enter the automatic calibration page. Wait for the screen to appear characters“CAL”,is to align the page, at this point the user can adjust the number according to the error of the instrument according to the measurement key, the adjustment range is-9 ~ 9mm,after the adjustment is completed, press the measurement key for one second to save the adjusted data.

## ★ 8、 Data storage and query

The instrument supports 20 sets of data storage, long press function key



you can enter the data query page, press the reference key to flip up

the data、 press the clear key to flip down the data.

★ 9、 Instrument shutdown

Long press the shutdown key, you can turn off the machine

Prompt message

Code	Cause	Solution
204	Calculation error	Reoperate according to the user manual
208	Current exceeding standard	Please contact the dealer
220	Power shortage	Please charge in time
252	The temperature is too high	Machine operating temperature 0 ~ 50°C
253	The temperature is too low	Please warm up the machine
255	Receiving weak reflected light	Add reflector
256	The reception signal is too strong	You don't look at the bright light
261	Measurement	Please measure within the standard range

	range exceeding standard	of the instrument
500	Hardware failure	Please contact the dealer

### Technical parameter

Project	HC40	HC60
Maximum measuring distance	40M	60M
Measurement accuracy	$\pm (2\text{mm}+d*1\%.)$	
Continuous measurement	√	
Area measurement	√	
Volume measurement	√	



Circular measurement	√
MAX/MIN	√
Laser grade	Class II
Laser type	520~670nm <1mw
Data storage	Group 20
Automatic	√
Voice prompt	Chinese and english
Use batteries	USB Charge 250MA
Storage temperature	-20°C~70°C
Storage humidity	RH85%
Working temperature	0~50°C
Electronic horizontal ruler	√
Bluetooth	√
Machine weight	

Copyright declaration

If there is any change in the above product specifications, without further notice, All rights of interpretation belong to the manufacturer. All trademarks pictures, technical parameters, copyright and ownership belong to the manufacturer, tort must be investigated.

Packing list

Project	Name	Unit	Quantity	Remarks
1	Mainframe	Platform	1	
2	Color box	one	1	
3	User manual	Ben	1	
4	Warranty certificate	Zhang	1	
5	USB line	Strip	1	