



说明书材质要求: 105g 有光铜版纸	说明书成品尺寸: 105*143mm
第一: 专色用6级防晒油墨+CMYK油墨要求: 1. PANTONE137C专色油墨 (专色用6级防晒油墨): 如果自己配色, 油墨配比为: 酒联中黄 (防晒) 2000g 酒联金红 (防晒) 225g 2. C色油墨: 酒联天蓝墨 3. M色油墨: 酒联金红墨 4. Y色油墨: pantone123C专色油墨 5. K色油墨: 酒联黑墨	第二: 特别注意: 1. 印刷时看样请参考我司提供的实物样品颜色。不得偏色 2. 137C的专色 不得 参考C=0, M=35, Y=90, K=0对应的四色 色谱颜色来看样印刷 Pantone 137C Black (两色印刷)
折叠方式: 风琴折 (20P以下 用风琴折)	备注:

特别注意: 此页内容不印刷

风琴折 + 对折 页面顺序

16P 页面顺序

9	10	11	封面
12	13	14	封底

1	2	3	4
5	6	7	8

20P 页面顺序

11	12	13	14	封面
15	16	17	18	封底

1	2	3	4	5
6	7	8	9	10

更改记录	1. 新制作			1. 加货号 2. 改电池包页			
	1024.V01	2024.10.19	CXY	0426.V02	2026.4.17	QL	
	版本号	日期	设计师	版本号	日期	设计师	

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PRODUCT MANUAL

CORDLESS 3D-LASER LEVEL



HLL301200 HLL301201 HLL301205 HLL301205xy
HLL301201xy HLL30120xy
UHLL301201 UHLL301201xy UHLL30120xy
x(blank,1,2,3,4,5,6,7,8,9,E,S,A,M)
y(blank,-1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)



GENERAL SAFETY WARNING**⚠ CAUTION!**

- While the product is in operation, be careful not to expose your eyes to the emitting laser beam. Exposure to a laser beam for an extended time may be hazardous to your eyes.
- Glasses may be supplied in some of the laser tool kits. These are **NOT** certified safety glasses. These glasses are only used to enhance beam visibility in brighter environments or at greater distances from the laser source.

⚠ WARNING!

Read the Safety Instructions and User Manual thoroughly before using this product. All users must fully understand and adhere to these instructions. The following label/print samples are placed on the product to inform you of the laser class for your convenience and safety.

Safety warning

- a) Do not stare directly into the beam, view directly with optical instruments, or set up the laser at eye level.
- b) Do not disassemble the laser tool. There are no user-serviceable parts inside.
- c) Do not modify the laser in any way. Modifying the tool may result in hazardous Laser Radiation Exposure.
- d) Do not operate the laser around children or allow children to operate the laser; this may result in serious eye injury.
- e) An exposure to a Class 2 laser beam is considered safe for a maximum of 0.25 seconds. Eyelid reflexes will generally provide adequate protection.

ADDITIONAL SAFETY WARNING

Stay alert, watch what you are doing and use common sense when operating a laser tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

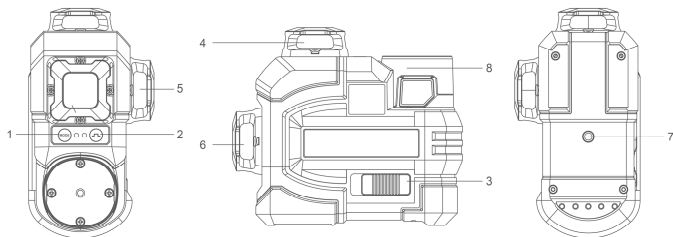
Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing

protection used for appropriate conditions will reduce personal injuries.

INTENDED USE

The measuring tool is intended for determining and checking horizontal and vertical lines. The measuring device is suitable exclusively for operation in enclosed working sites.

SPECIFICATIONS



Components

- | | |
|------------------------------|------------------------|
| 1. Mode | 7. Rotary screw (1/4") |
| 2. Pulse key | 8. Battery |
| 3. Pendulum lock | |
| 4. Horizontal laser line | |
| 5. Side vertical laser line | |
| 6. Front vertical laser line | |

Technical specifications

Model No.	HLL301200 HLL301201 HLL301205 HLL301205xy HLL301201xy HLL30120xy UHLL301201 UHLL301201xy UHLL30120xy
Light source	Laser diodes
Laser wavelength	510 - 530nm (green)
Laser power	<1mW (each beam) class 2 laser product
Standard	0-35m
Levelling accuracy	±1.5mm@7m
Self-levelling range, typically	≤4°

Model No. NOTE: x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.

Accessories

⚠ WARNING!

Since accessories, other than those offered by manufacturer, have not been tested with this product, use of such accessories with this tool could be hazardous. To reduce the risk of injury, only manufacturer recommended accessories should be used with this product.

⚠ WARNING!**Only use original battery pack as below for this power tool:**

Product	Battery pack		
Model No.	Type	Rated voltage	Rated capacity
FBLI1626 FBLI1626xy	Lithium-Ion	14.8V d.c., 16V Max	2.0Ah

Model No. NOTE: x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

OPERATION

Initial operation

Protect the measuring tool against moisture and direct sunlight.

Do not subject the measuring tool to extreme temperature or temperature variations.

In case of significant temperature variations, allow the measuring tool to adjust to ambient temperature before putting it into operation.

Avoid heavy impact to or falling of the measuring tool.

Switch off the measuring tool during transportation.

WARNING!

Never modify the tool or any part of it. Damage to the laser or personal injury could result.

Operation tips

- Use only the specified rechargeable Li-Ion battery pack for best results.
- Ensure batteries are in good working condition.
- To extend battery life, turn laser off when not working with or marking the beam.
- To ensure the accuracy of your work, check to make sure your laser is calibrated often. See Field Calibration Check.
- Before attempting to use the laser, make sure it is positioned securely, on a smooth, flat surface.
- Always mark the center of the beam created by the laser.
- Extreme temperature changes may cause movement of internal parts that can affect accuracy. Check your accuracy often while working. See Field Calibration Check.
- If the laser has been dropped, check to make sure your laser is still calibrated. See Field Calibration Check.
- Place the laser on a smooth, flat, stable surface that is level in both directions.

Auto self-leveling mode			
Short press	Horizontal laser line	Front vertical laser line	Side vertical laser line
0 (Unlock the pendulum to turn on)			
1			
2			
3			
4			
5			
6	Repeat to step "1"		

Manual mode

Manual mode			
Short press	Horizontal laser line	Front vertical laser line	Side vertical laser line
1			
2			
3			
4			
5			
6	Turn off		

In manual mode, the measuring tool won't be self-levelling. It could be held by hand or placed on an inclined surface to project a rigid laser beam in any orientation.

To switch off the measuring tool, press and hold the mode key for more than 3 seconds.

To change the laser beam, shortly press the mode key repeatedly to cycle through the available modes. The following sequences are available.

Levelling the lasers

As long as the laser is properly calibrated, the laser is self-levelling. Each laser is calibrated at the factory to find level as long as it is positioned on a flat surface within average ± 4 of level. No manual adjustments are required.

⚠ WARNING!

Position the laser and/or wall mount on a stable surface. Serious personal injury or damage to the laser may result if the laser falls.

Out of level range indicator

The lasers are designed to self-level. If the laser has been tilted so much that it cannot self-level ($> 4^\circ$), the laser beam will flash.

When the beams flash the laser is not level (or plumb) and should not be used for determining or marking level or plumb. Try repositioning the laser on a more level surface.

⚠ WARNING!

Batteries can explode or leak and can cause injury or fire. To reduce this risk:

- Carefully follow all instructions and warnings on the battery label, package and accompanying Battery safety leaflet.
- Always insert batteries correctly with regard to polarity (+ and -), marked on the battery and the equipment.
- Do not short battery terminals.
- Remove dead batteries immediately and dispose of per local codes.
- Do not dispose of batteries in fire.
- Keep batteries out of reach of children.
- Remove batteries when the device is not in use.
- Use only the charger specified for your rechargeable battery pack.

Control panel

To use pulse mode, unlock the pendulum first, then simply click on right button of the control panel, the yellow indicator lights up.

MAINTENANCE&MALFUNCTIONS

Troubleshooting

The laser does not turn on

- Make sure that the battery contacts are clean and free of rust or corrosion. Be sure to keep the laser level dry and use only new, high-quality, name brand batteries to reduce the chance of battery leakage.
- If the laser unit is heated above 120°F (50°C), the unit will not turn on. Allow the laser to cool if it has been stored in scorching temperatures.

The laser beams flash

The lasers are designed to self-level up to an average of 4 in all directions if the laser is tilted so much that the internal mechanism cannot level itself, the laser beams will flash indicating that the tilt range has been exceeded. The flashing beams created by the laser are not level or plumb and should not be used for determining or marking level or plumb. Try repositioning the laser on a more level surface.

The laser beams will not stop moving

The laser is a precision instrument. Therefore, if it is not positioned on a stable (and motionless) surface, the laser will continue to try to find level. If the beam will not stop moving, try placing the laser on a more stable surface. Also, try to make sure that the surface is relatively flat, so that the laser is stable.

Maintenance

- To maintain the accuracy of your work, check the laser often to ensure it is properly calibrated. See Field Calibration Check.
- When not in use, store the laser in the kit box provided. Do not store your laser at temperatures below -5°F (-20°C) or above 140°F (60°C).
- Do not store your laser in the kit box if the laser is wet. The laser should be dried first with a soft dry cloth prior to storage.



MADE IN CHINA 0426.V02



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