



## User Manual

360° Self-leveling Cross Line Laser Level

602CG/602CR 603CG/603CR
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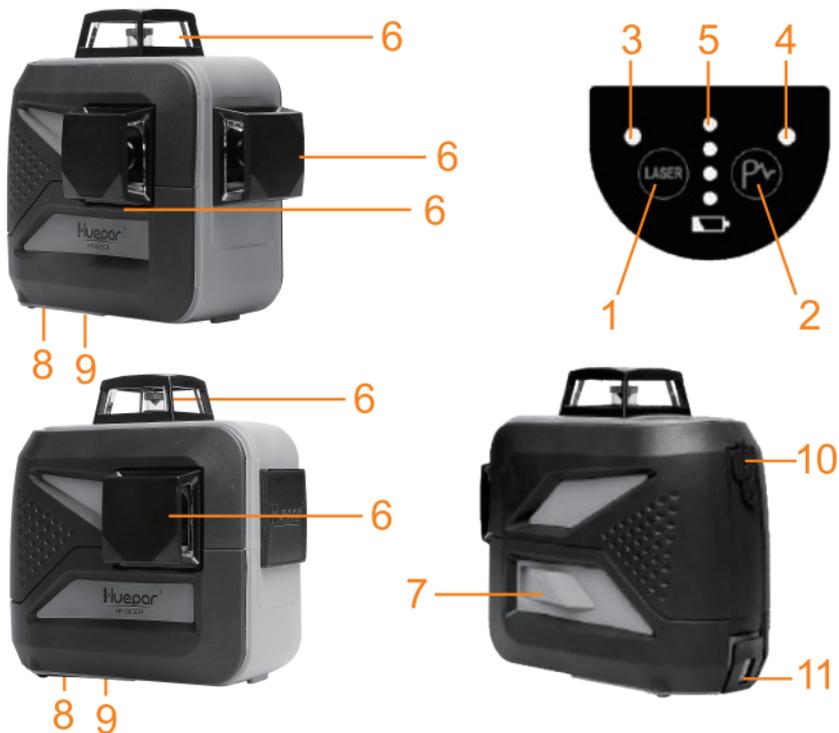
Thank you for purchasing Huepar 360° Self-leveling Cross Line Laser Level.

Before using the product, please read this manual thoroughly to ensure proper use.

- **Product Overview**
- **Safety Instructions**
- **Battery Use & Safety**
- **Operation & LED Indicators**
- **Self-leveling Mode**
- **Manual/Tilt Mode**
- **Pulse Mode (Use with Receiver)**
- **Specifications**
- **Warranty**



## Product Overview



1. Operation Button
2. Pulse/ Power Saving Button
3. Power Indicator
4. Pulse Mode Indicator
5. Battery Indicator
6. Vertical/ Horizontal Laser Window
7. Pendulum/Transit Lock
8. 5/8"-11 threaded mount
9. 1/4"-20 threaded mount
10. Charging port (Lithium battery)
11. Battery cover

## Safety Instructions

Before using this product, please read thoroughly and comply with the Safety Instructions. Failure to read and follow may void the warranty.

### **WARNING!**

Class 2 Laser Product  
Max. Power Output: <1mW  
Wavelength: 505nm-660nm

### **LASER RADIATION:**

**DO NOT STARE INTO BEAM.**

**DO NOT DIRECT EYE EXPOSURE.**

**AVOID VIEW WITH OPTICAL INSTRUMENTS.**



IEC/EN60825-1: 2014

### **ATTENTION:**

Read all instructions prior to operating this laser tool. Do not remove any labels from tool.

- While the product is in operation, be careful not to expose your eyes to the emitting laser beam (Green/Red light source). Exposure to a laser beam for an extended time may be hazardous to your eyes.
- Do not attempt to view the laser beam through optical tools such as telescopes as serious eye injury may result.
- Do not disassemble or modify the laser in any way. Modifying the tool may result in hazardous Laser Radiation Exposure.
- Do not operate the laser around children or allow children to operate the laser. Serious eye injury may result.
- An exposure to the beam of a Class 2 laser is considered safe for a maximum of 2 seconds. Eyelid reflexes will normally provide adequate protection.
- The following label/print samples are placed on the product to inform of the laser class for your convenience and safety.



IEC/EN60825-1:2014



## User Guide, Maintenance and Care

- When not in use please power OFF the tool and place the pendulum lock in its locked position.
- The laser tool is sealed and calibrated at the plant to the accuracy specified. It's recommended to carry out an accuracy check before its first use and periodic checks during future use especially for precise layouts.
- Do not store the laser tool in direct sunlight or expose it to high temperatures. The housing and some internal parts are made of plastics and may become deformed at high temperatures.
- Exterior plastic parts may be cleaned with a damp cloth. Although these parts are solvent resistant, NEVER use solvents. Use a soft, dry cloth to remove moisture from the tool before storage.
- Do not dispose of this product with household waste.

## Battery Use & Safety

This product is compatible with AA batteries and lithium battery. Depending on the dealer's choice, it may be equipped with AA batteries or lithium battery Please check the contents of the package according to the dealer's description.

### **Li-ion Battery Safety:**

- Please use the charger or adapter provided by the manufacturer.
- Each charge time is about 3-4 hours, but not more than 24 hours.
- Please charge in 24 hours when the low battery or the laser tool turns off due to low power.
- The best charging temperature: 0 C to 20 C (32 F -68 F )
- If the lithium battery is not used for extended time, please charge the lithium battery once every 3 months, each charging time is not less than 6 hours.

### **AA Battery Safety:**

- Please pay attention to the position of the positive and negative pole.
- Please use large-capacity rechargeable batteries or alkaline battery above 1500mAh for each when replace batteries.
- Do not mix old and new batteries. Replace all of them at the same time with new batteries of the same brand and type.

**Note: Avoid charging the device without taking out the alkaline batteries.**

### **Attention:**

- Keep the battery away from children, and pets.
- Do not charge unattended.
- If the device is not used for a long period of time, please fully charge and remove the battery. Please store the battery in a dry and room temperature environment.
- Never charge or store the batteries inside your car. Do not leave the battery near a heat source (such as a stove). Extreme temperatures (low or high) might ignite the battery, and cause a fire.
- On (battery electrolytes) exposure to skin, flush with water immediately. If eye exposure occurs, flush with water for 15 minutes, and seek emergency care immediately.
- Immediately discontinue use of the battery if the battery abnormal/ deformed (emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way). Please contact the manufacturer to

replace it.

- Always dispose of batteries per local code.
- Please recycle in line with local provisions for the collection and disposal of electrical and electronic waste under the WEEE Directive.

## Operation & LED Indicators

### Turn ON the laser tool:

- Method 1: Slide the pendulum to the Unlocked Position, turn on horizontal line and self-leveling mode in default.
- Method 2: When the pendulum in Locked Position, press  and hold for  $\geq 2$  seconds to turn on the laser tool.

### Lines switching:

- Short press  repeatedly to switch the composition of different laser lines.

**Note:** The line mode switches every time you short press .

### Switch to Pulse Mode:

- Short press  to turn the Pulse Mode on, the pulse mode indicator will light up.

**Note:** Laser level can work with Laser Receiver to extend working range under pulse mode.

### Turn OFF the laser tool:

#### If the laser tool is in self-leveling mode:

- Slide the pendulum to the Locked Position to turn laser tool OFF.

#### If the laser tool is in manual mode:

- Method 1: Slide the pendulum to the Unlocked Position, and then slide the pendulum again to the Locked Position to turn laser tool OFF.
- Method 2: When the pendulum is in the Locked Position, Short press  several times until all laser beams off to Turn OFF the laser tool.

**Note:** The laser level can only be turned off when the pendulum/transit in its Locked Position.

## Battery Volume Indicator

- After power on, the current battery volume will be displayed on the keypad, ranging from 1 to 4 battery indicator.
- When only 1 battery indicator lights up, the battery is low, and needs charging; When all 4 battery indicators light up, the battery is fully charged.
- The 4 battery indicators will flash in turn while charging; When the battery is fully charged, all the 4 battery indicators will light up and stop flashing.

**Note:** the laser tool is able to work while charging even if taking out the battery from the laser level.

## Self-leveling Mode

- is enabled when the pendulum/transit is switched to the unlocked position.
- The laser beam(s) blink fast when tool is out of self-leveling range ( $\pm 4^\circ$ ).

**Note:** When using under Self-leveling mode, please place this laser tool on a level surface.

## Manual/Tilt Mode

- is enabled when the pendulum/transit is switched to the locked position.
- is enabled to position the laser tool at various angles to project non-level straight lines or points.
- The laser beam(s) will blink about every 3-5 seconds to notify the user.

**Note:** The laser beam(s) projected in manual mode cannot be used as a horizontal or vertical reference in nature.

## Pulse Mode (Use with Receiver)

- Under pulse mode, Laser tool can work with a laser detector for working in a brighter environment or a larger working distance.

- Turn on the laser tool, short press  to turn the Pulse Mode on, and the pulse mode Indicator will light up. The laser beam is dimmer in pulse mode.
- Press  again back to Normal Mode, the pulse mode Indicator will light off, and the brightness of the laser line will return to normal.
- Please turn on the pulse mode when using the laser detector.

**Note:** The laser beam in pulse mode is dimmer than in normal mode.

# Specifications

## 2 x 360° Self-leveling Cross Line Laser Level

Model	602CG (Green Beams)	602CR (Red Beams)
Laser Class	Class 2 (IEC/EN60825-1/2014), < 1mW	
Laser Wavelength	505-520nm	635-660nm
Leveling Accuracy	±3mm/10m	
Horizontal/Vertical Accuracy	±3mm/10m	
Leveling/Compensation Range	±4°	
Working Distance (Line)	25m	20m
Working Distance (Line with Detector)	40-60m	
Power Source (Optional)	Li-Ion 7.4V 1500mAh / 4×"AA" (LR6)	
Reference Operating Time: All laser beam on (AA Battery)	About 4 Hours	About 7 Hours
Reference Operating Time: All laser beam on (Li-Ion Battery)	About 7 Hours	About 12 Hours
Mount Size	1/4"-20 & 5/8"-11	
IP Rating	IP54	
Operation Temperature Range	-10°C to 45°C	
Storage Temperature Range	-20°C to 60°C	

### 3 x 360° Self-leveling Cross Line Laser Level

Model	603CG (Green Beams)	603CR (Red Beams)
Laser Class	Class 2 (IEC/EN60825-1/2014), < 1mW	
Laser Wavelength	505-520nm	635-660nm
Leveling Accuracy	±3mm/10m	
Horizontal/Vertical Accuracy	±3mm/10m	
Leveling/Compensation Range	±4°	
Working Distance (Line)	25m	20m
Working Distance (Line with Detector)	40-60m	
Power Source (Optional)	Li-Ion 7.4V 2600mAh / 4×"AA" (LR6)	Li-Ion 7.4V 1500mAh / 4×"AA" (LR6)
Reference Operating Time: All laser beam on (AA Battery)	About 2 Hours	About 5.5 Hours
Reference Operating Time: All laser beam on (Li-Ion Battery)	About 7 Hours	About 10 Hours
Mount Size	1/4"-20 & 5/8"-11	
IP Rating	IP54	
Operation Temperature Range	-10°C to 45°C	
Storage Temperature Range	-20°C to 60°C	

**Note:**

- Appearance and specifications may differ due to product improvement.
- Working distance varies depending on the operating environment.
- When use with receiver for a larger working range, it's necessary to turn on the pulse mode.

- This product is compatible with AA batteries and lithium battery, please check the contents of the package according to the dealer's description.

## Warranty

The laser tool passed rigorous and comprehensive product inspection. We are confident of the quality of our products and offer outstanding guarantee for professional users of the products.

### **We offer One Year Limited Warranty from date of purchasing provided that:**

- Proof of purchase
- Fair wear and tear
- Have not repaired by unauthorized persons
- Has not been misused

Defective products will be repaired or replaced, free of charge or at our discretion, if sent together with proof of purchase to our authorized distributor(s).

### **This Warranty does not cover:**

- Faults caused by accidental damage
- Failure to use according to manufacturers' instructions
- Defects caused by maintenance or renovation without our authorization
- Calibration and care are not covered by warranty

### **Note:**

- To the extent permitted by law, we shall not be liable under this Warranty for indirect or consequential loss resulting from faults in this product.
- Repair or replacement under this Warranty does not affect the expiry date of the Warranty.
- This warranty is limited to purchased customers, and is not permitted to transfer this warranty to other third parties.
- This Warranty may not be varied without our authorization.

Please scan the QR code to register this product and enjoy 2-year warranty.

If you encounter any question or confusion about the product, please feel free to contact us:

**[support@levelsure.com](mailto:support@levelsure.com)**

