Huepar S100-BT

Huepar S100-BT 330Ft. Digital Laser Distance Measure with Bluetooth and Angle Sensor User Manual

Comprehensive guide for setup, operation, maintenance, and troubleshooting.

1. PRODUCT OVERVIEW

The Huepar S100-BT is a versatile digital laser distance measure designed for accurate and efficient measurements. It features Bluetooth connectivity for seamless integration with the Huepar mobile application, an angle sensor for real-time tilt measurements, and multiple measurement modes including distance, area, volume, and Pythagorean calculations.

Figure 1: Huepar S100-BT Laser Distance Measure and its companion mobile application interface.

2. WHAT'S IN THE BOX

- 1 x Huepar S100-BT Laser Distance Meter
- 1 x Hand Strap
- 2 x Rechargeable 1200mAh NiMH Batteries
- 1 x Type-C Charging Cord
- 1 x User Manual
- 1 x Paper Box

What's in Box?

1 x Laser Distance Meter with Hand Strap
2 x Rechargeable 1200mah NiMh Batteries
1x User Manual

1 x USB Charging Cable
1x Carrying bag

Figure 2: All items included in the Huepar S100-BT package.

3. SETUP

3.1 Battery Installation and Charging

The device is powered by 2 rechargeable 1200mAh NiMH batteries (included). It can also be powered directly via a Type-C power cord. The device is compatible with AA batteries (not included) as an alternative power source.

1. To install batteries, slide open the battery cover on the back of the device.
2. Insert the 2 NiMH batteries, ensuring correct polarity (+/-).
3. Close the battery cover securely.
4. To charge, connect the device using the provided Type-C charging cord. A charging indicator will be displayed.
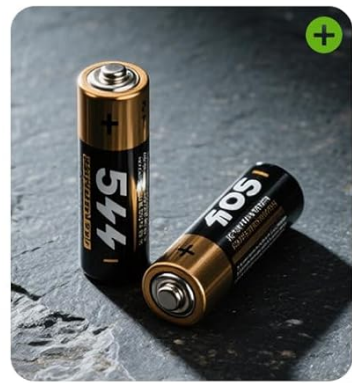
Figure 3: The Huepar S100-BT supports rechargeable NiMH batteries, direct Type-C power, and AA batteries.

3.2 Power On/Off

- **Power On:** Short press the **MEASURE** button (triangle icon) to turn on the device.
- **Power Off:** Long press the **OFF** button to turn off the device. The device will automatically shut down after 180 seconds of no operation to conserve power.

3.3 Reference Points

The device allows you to select from three reference points for measurements: front, middle (1/4 inch screw hole), or rear. The default reference point is the rear of the device.

- To change the reference point, long press the **ADD/REFERENCE POINT** button. The display will show an icon indicating the currently selected reference point.
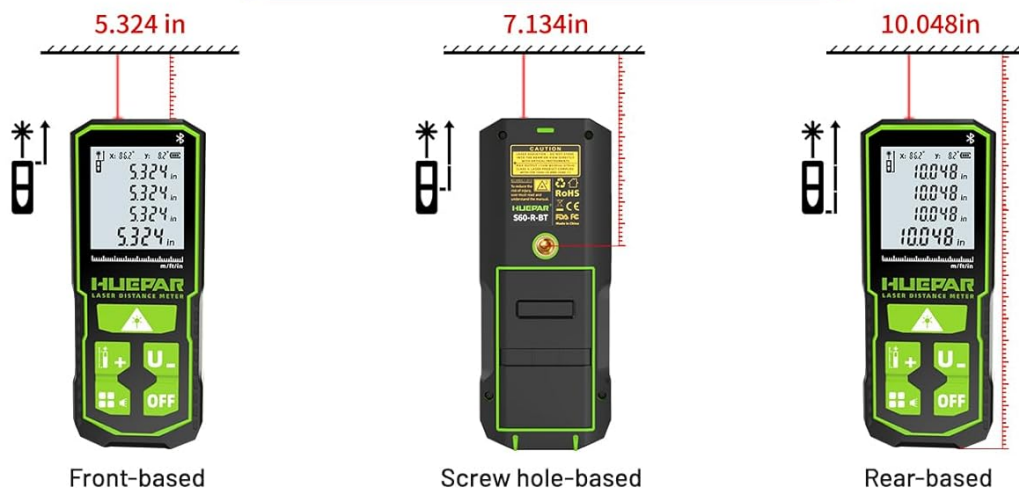
Figure 4: Select the appropriate reference point for accurate measurements.

3.4 Unit Selection

The device supports 5 selectable units: 0.000m, 0.000ft, 0.000in (decimal), 0in (fraction), and 0'0"%.

- To switch between units, long press the **SUBTRACTION/UNIT SWITCH** button.

3.5 Bluetooth and App Connection

The Huepar S100-BT features Bluetooth connectivity to pair with the Huepar APP for enhanced functionality.

1. Download the Huepar APP from your phone's app store (available for free).
2. Ensure Bluetooth is enabled on your smartphone.
3. Turn on the laser measuring tool.
4. Open the Huepar APP and grant all necessary permissions (e.g., location access).
5. Click "Add Device" within the app.
6. Select your Huepar laser measuring tool from the list of available devices to connect.
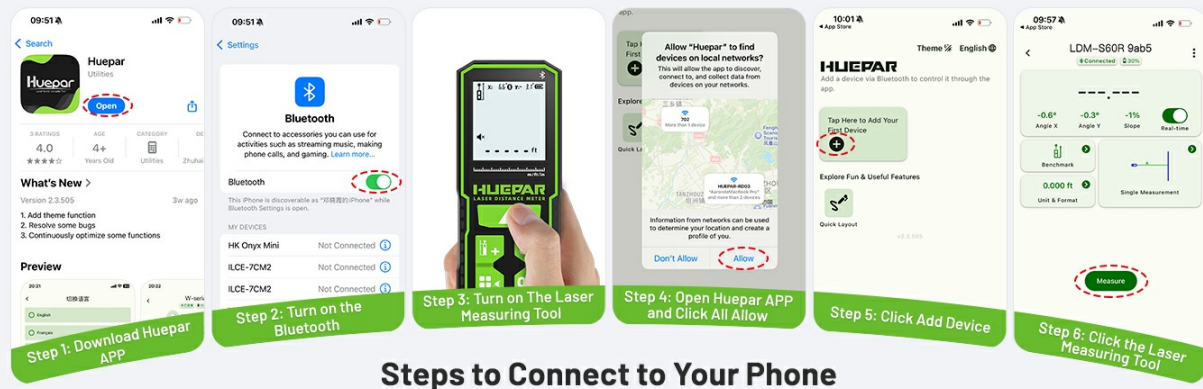
Figure 5: Follow these steps to connect your device to the Huepar APP.

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Video 1: Demonstrates the Bluetooth connection process and basic app functionality.

4. OPERATING INSTRUCTIONS

4.1 Basic Measurement Modes

The Huepar S100-BT offers various measurement modes for different applications.

- **Single Measurement:** Short press the **MEASURE** button to take a single distance measurement.
- **Continuous Measurement:** Long press the **MEASURE** button for 2-3 seconds to enter continuous measurement mode. The maximum, minimum, and current values will be displayed. Short press again to stop.
- **Area Measurement:** Press the **LENGTH/AREA/VOLUME/PYTHAGOREAN** button until the area icon appears. Take two consecutive distance measurements (length and width), and the device will automatically calculate and display the area.
- **Volume Measurement:** Press the **LENGTH/AREA/VOLUME/PYTHAGOREAN** button until the volume icon appears. Take three consecutive distance measurements (length, width, and height), and the device will automatically calculate and display the volume.
- **Pythagorean Measurement:** The device supports 4 Pythagorean measurement modes for indirect length calculations. Press the **LENGTH/AREA/VOLUME/PYTHAGOREAN** button until the desired Pythagorean icon appears. Follow the on-screen prompts to take the required measurements (e.g., hypotenuse and one side) to calculate the unknown length. For best accuracy, use a tripod for Pythagorean measurements.

Multiple Measuring Modes

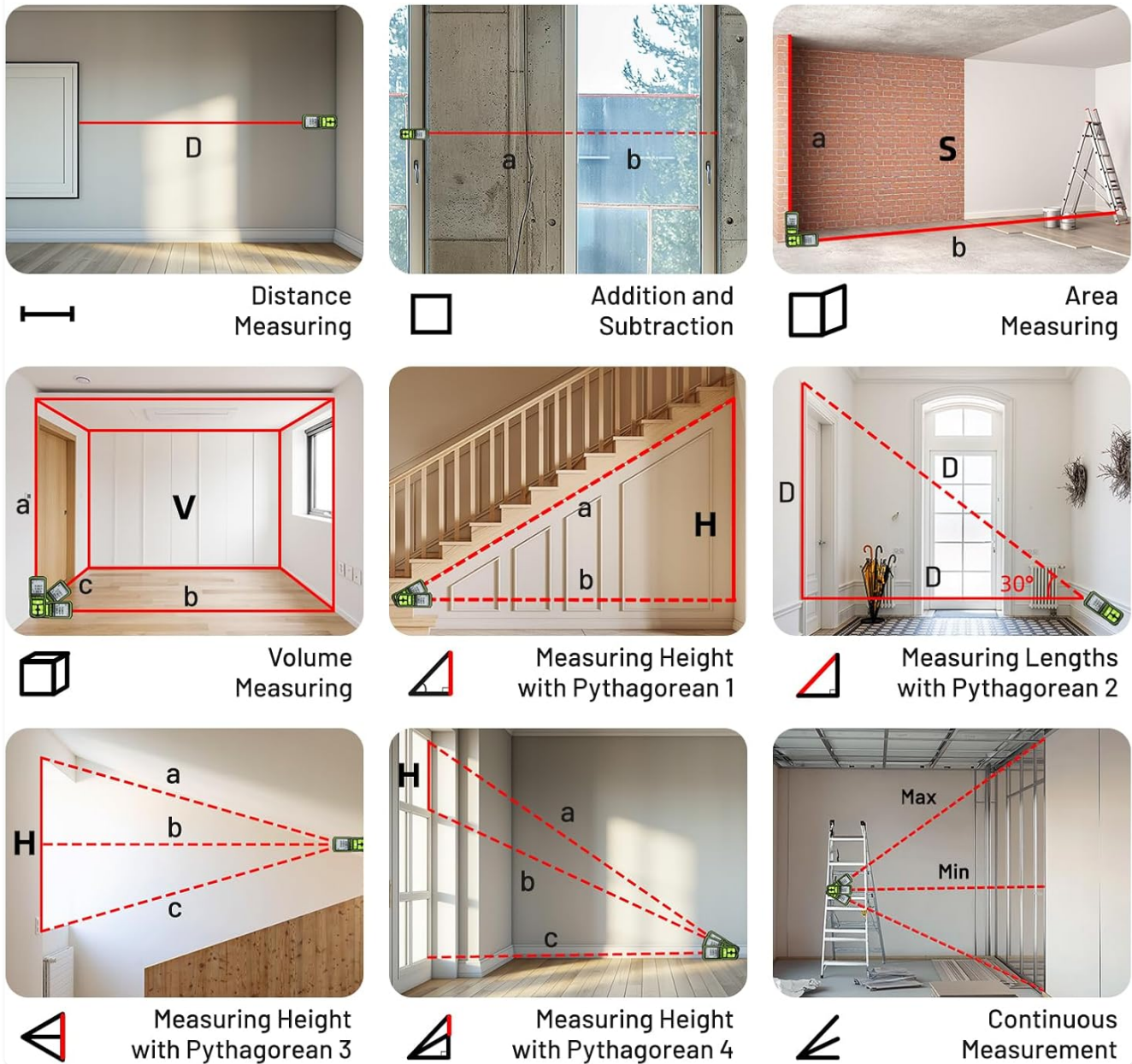|			
Distance Measuring	Addition and Subtraction	Area Measuring
Volume Measuring	Measuring Height with Pythagorean 1	Measuring Lengths with Pythagorean 2
Measuring Height with Pythagorean 3	Measuring Height with Pythagorean 4	Continuous Measurement

Figure 6: Overview of the multiple measurement modes available.

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Video 2: Detailed instructions on how to use various measurement modes.

4.2 Angle Sensor

The built-in digital tilt angle sensor provides real-time angle measurements with an accuracy of ±1°. The X, Y angle measurement range is -90.0° to 90.0°.

- The X direction indicates forward and backward tilt.
- The Y direction indicates left and right tilt.

Real-time Electronic Angle Sensor

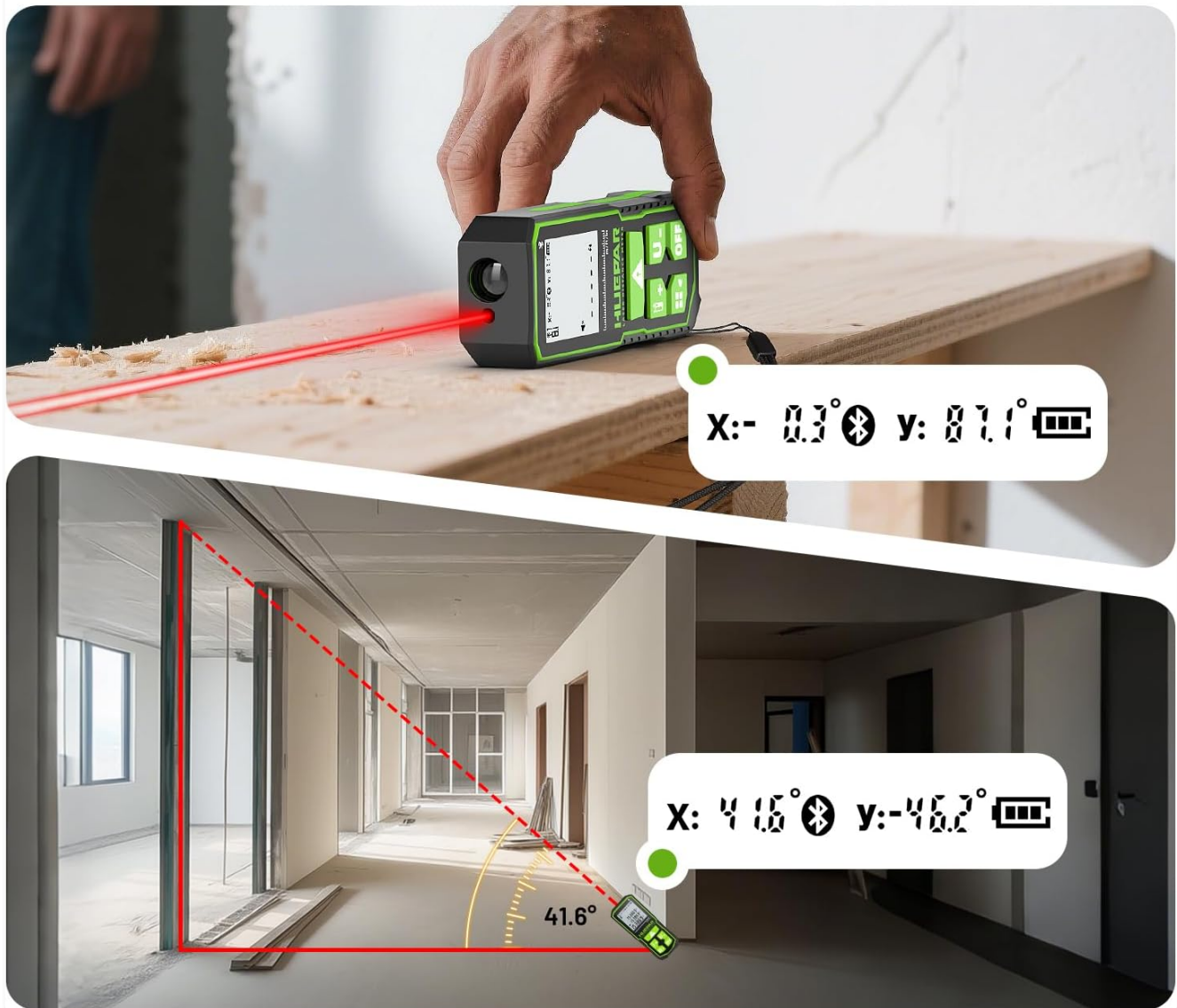## X: Vertical Angel   Y: Horizontal Angel

Figure 7: The device displays real-time X and Y angles for precise leveling and tilt measurements.

4.3 Addition and Subtraction

The device supports addition and subtraction of measurements.

- To add a measurement, press the **ADD/REFERENCE POINT** button after taking a measurement. The display will show a "+" sign. Take the next measurement, and the sum will be displayed.

- To subtract a measurement, press the **SUBTRACTION/UNIT SWITCH** button after taking a measurement. The display will show a "-" sign. Take the next measurement, and the difference will be displayed.

Figure 8: Visual guide for using addition and subtraction functions.

4.4 Mute/Sound Mode

- Long press the **LENGTH/AREA/VOLUME/PYTHAGOREAN** button to turn the buzzer sound on or off. A speaker icon with a cross will appear on the display when muted.

4.5 Huepar APP Functions

The Huepar APP provides advanced features for managing your measurements:

- **Real-time Control:** Switch measurement modes, select units, and set reference points directly from your phone.
- **Data Recording:** Save unlimited measurement data and group it for better organization.
- **Floor Plan Drafting:** Create and edit floor plans directly within the app.
- **Photo Marking:** Take photos and mark measurement values directly on the images.
- **Notes:** Add notes to your measurements for detailed record-keeping.
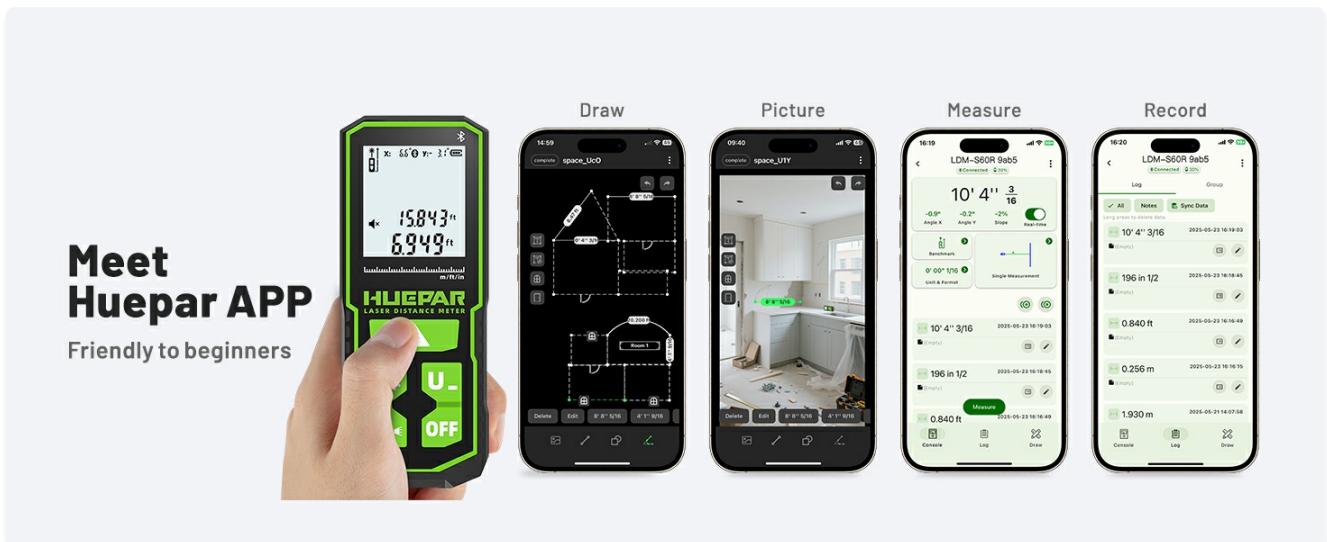

Figure 9: The Huepar APP offers a user-friendly interface for beginners.

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Video 3: Demonstrates how to use the Huepar APP for various measurement tasks.

5. MAINTENANCE

5.1 Durable Design

The Huepar S100-BT is designed for durability with an IP54 rating, making it waterproof and dustproof. Its portable size and scratch-proof TPE soft rubber housing provide a good grip and protection.

Figure 10: The device's IP54 rating ensures protection against water and dust.

5.2 Cleaning and Storage

- Clean the device with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- Remove batteries if storing for extended periods to prevent leakage.

6. TROUBLESHOOTING

6.1 Error Codes

The device may display error codes to indicate issues. Refer to the table below for common error codes and their solutions:

Error Code	Cause	Corrective Measure
Err10	Battery too low	Change batteries or charge the device
Err15	Out of range	Measure target within the range
Err16	Received signal too weak or measuring time too long	Use high reflectivity reflector
Err18	Background brightness too high	Use low reflectivity reflector
Err26	Out of the device's digital display range	Switch units or measure within the digital display range

6.2 Accuracy Check

To check the accuracy of the measuring tool:

- Select a permanently unchangeable measuring section (e.g., a wall) which is approximately 9.8 to 32ft (3 to 10m) long and for which you know the exact length.
- The measurement should be performed under favorable conditions, i.e., the measuring section should be indoors with weak backlighting and the target area of the measurement should be smooth and reflect well (e.g., a white-painted wall).
- Measure the distance 10 times in succession. The deviation of the individual measurements from the average value must not exceed ±0.12 in (±2 mm). Record the measurements in order to be able to compare the accuracy at a later date.
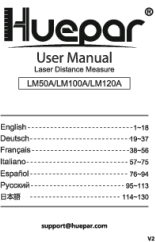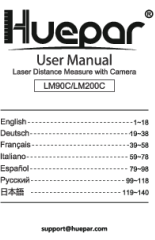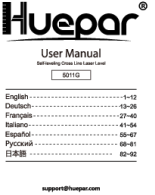
7. SPECIFICATIONS
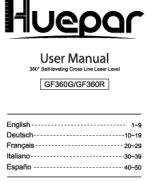
- **Measuring Range:** 330 feet
- **Accuracy:** 1/16 inch
- **Laser Class:** Class 2
- **Laser Type:** 630-670nm, <1mW
- **Angle Sensor Accuracy:** ±1°
- **Units:** m, ft, in (decimal), in (fraction), %
- **Power:** 2 x 1200mAh NiMH rechargeable batteries (included), Type-C charging, compatible with AA batteries (not included)
- **Automatic Shutdown:** 180s (no operation)
- **IP Rating:** IP54 (waterproof and dustproof)
- **Material:** Acrylonitrile Butadiene Styrene, TPE soft rubber housing
- **Item Weight:** 0.705 ounces (20 Grams)
- **Item Model Number:** S100R-BT

8. WARRANTY AND SUPPORT

The Huepar S100-BT laser measuring tool comes with a 2-year quality assurance. Free repair or replacement is provided if the product is faulty.

Huepar is committed to providing best-in-class service to customers, including 24/7 service team support (response within 24 hours & solution within 48 hours) and lifetime technical support through worldwide maintenance centers.

Related Documents - S100-BT

Huepar User Manual Laser Distance Measure LM50A/LM100A/LM120A English----------------1~18 Deutsch--------------19~37 Français--------------38~56 Italiano---------------57~75 Español--------------76~94 Русский--------------95~113 日本語---------------114~130 support@huepar.com V2	**[Huepar LM50A/LM100A/LM120A Laser Distance Measure User Manual](#)** Comprehensive user manual for the Huepar LM50A, LM100A, and LM120A Laser Distance Measure. Learn about product features, safety instructions, operation, and maintenance.
Huepar User Manual Laser Distance Measure with Camera LM90C/LM200C English----------------1~18 Deutsch--------------19~38 Français--------------39~58 Italiano---------------59~78 Español--------------79~98 Русский--------------99~118 日本語---------------119~140 support@huepar.com	**[Huepar LM90C/LM200C Laser Distance Measure with Camera User Manual](#)** Comprehensive user manual for the Huepar LM90C/LM200C Laser Distance Measure with Camera, detailing product features, safety guidelines, operational instructions, technical specifications, and warranty information for optimal use.
Huepar User Manual Self-leveling Cross Line Laser Level 5011G English----------------1~12 Deutsch--------------13~26 Français--------------27~40 Italiano---------------41~54 Español--------------55~67 Русский--------------68~81 日本語---------------82~92 support@huepar.com	**[Huepar 5011G Self-leveling Cross Line Laser Level User Manual](#)** User manual for the Huepar 5011G self-leveling cross line laser level. Provides instructions on product overview, safety, operation, charging, and warranty.
Function Introduction text block (W04CG)	**[Huepar Laser Level W04CG Function Introduction and Usage Guide](#)** This document provides a detailed introduction to the functions and operation of the Huepar Laser Level W04CG, including status indicators, connection features, laser line control, battery status, and important safety notes.
Huepar User Manual 360° Self-leveling Cross Line Laser Level GF360G/GF360R English----------------1~9 Deutsch--------------10~19 Français--------------20~29 Italiano---------------30~39 Español--------------40~50 support@levelsure.com V2	**[Huepar GF360G/GF360R 360° Self-leveling Cross Line Laser Level User Manual](#)** Comprehensive user manual for the Huepar GF360G and GF360R 360° Self-leveling Cross Line Laser Level, covering product overview, safety instructions, battery care, operation modes, specifications, and warranty.

Huepar 9011G/9011R, 9211G/9211R Cross Line/Plumb Spot Combo Laser Level User Manual

User manual for the Huepar 9011G/9011R and 9211G/9211R Cross Line/Plumb Spot Combo Laser Level, covering safety instructions, product overview, operation modes, specifications, and warranty.