

IBELL LL5-16

iBELL IBL LL5-16 Professional 16-Line Green Beam Self-Leveling Laser Level User Manual

Model: LL5-16

1. INTRODUCTION

Thank you for choosing the iBELL IBL LL5-16 Professional 16-Line Green Beam Self-Leveling Laser Level. This device is designed for precise leveling tasks in various applications, offering high accuracy and ease of use. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the device. Failure to follow these instructions may result in laser radiation exposure, electric shock, fire, or serious injury.

- **Laser Radiation:** This product emits Class II laser radiation. Do not stare directly into the laser beam. Avoid direct eye exposure.
- **Children:** Keep the device out of reach of children.
- **Modifications:** Do not attempt to modify or disassemble the laser level. Unauthorized modifications can lead to hazardous radiation exposure and void the warranty.
- **Operating Environment:** Use the device in a well-lit area. Avoid using it in explosive atmospheres or in the presence of flammable liquids or gases.
- **Power Source:** Use only the specified rechargeable batteries and charging accessories.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- iBELL IBL LL5-16 Laser Level
- Rechargeable Batteries (x2)
- Mini Tripod
- USB Type-C Charging Cable
- Remote Control
- BMC Box (Storage Case)
- Lifting Base
- Thread Mount Tripod Magnet

of -20°C to 40°C.

- **Wireless Remote Control:** Allows convenient operation from a distance.



Figure 4.1: The iBELL LL5-16 projects 4x360 cross green laser lines with high accuracy and features a pulse mode for enhanced visibility.



Figure 4.2: The 360-degree wide application capability of the iBELL LL5-16 laser level, illustrating its ability to project laser planes in multiple orientations.



Figure 4.3: Versatile mounting options for the iBELL LL5-16, including a 360-degree rotating magnetic bracket and tripod compatibility.

LASER LEVEL USAGE




Real Estate


Factory


Tiling


Furniture


Construction

Figure 4.4: The iBELL LL5-16 features an extended-life lithium battery, providing 4-8 hours of runtime and rechargeable via USB-C.



Figure 4.5: Diverse applications of the iBELL LL5-16 laser level in various professional and home improvement tasks.



Figure 4.6: Overview of the iBELL LL5-16's core functionalities including pulse mode, high precision, self-leveling, remote control, 4x360 coverage, and waterproof design.

5. SETUP

5.1 Battery Installation

1. Locate the battery compartment on the side or back of the laser level.
2. Open the compartment cover.
3. Insert the rechargeable lithium battery, ensuring correct polarity.
4. Close the battery compartment cover securely.
5. To charge, connect the USB Type-C cable to the charging port on the device and to a suitable USB power adapter.

5.2 Mounting the Device

The iBELL LL5-16 can be mounted in several ways:

- **Mini Tripod:** Attach the device to the included mini tripod for basic height adjustment and stability on flat surfaces.
- **Standard Tripod:** Use the 1/4-inch-20 thread on the bottom of the device to mount it on a standard photographic or construction tripod (not included) for greater height and positioning flexibility.
- **Magnetic Bracket:** Utilize the thread mount tripod magnet to attach the device to metallic surfaces or to a wall bracket for flexible positioning.

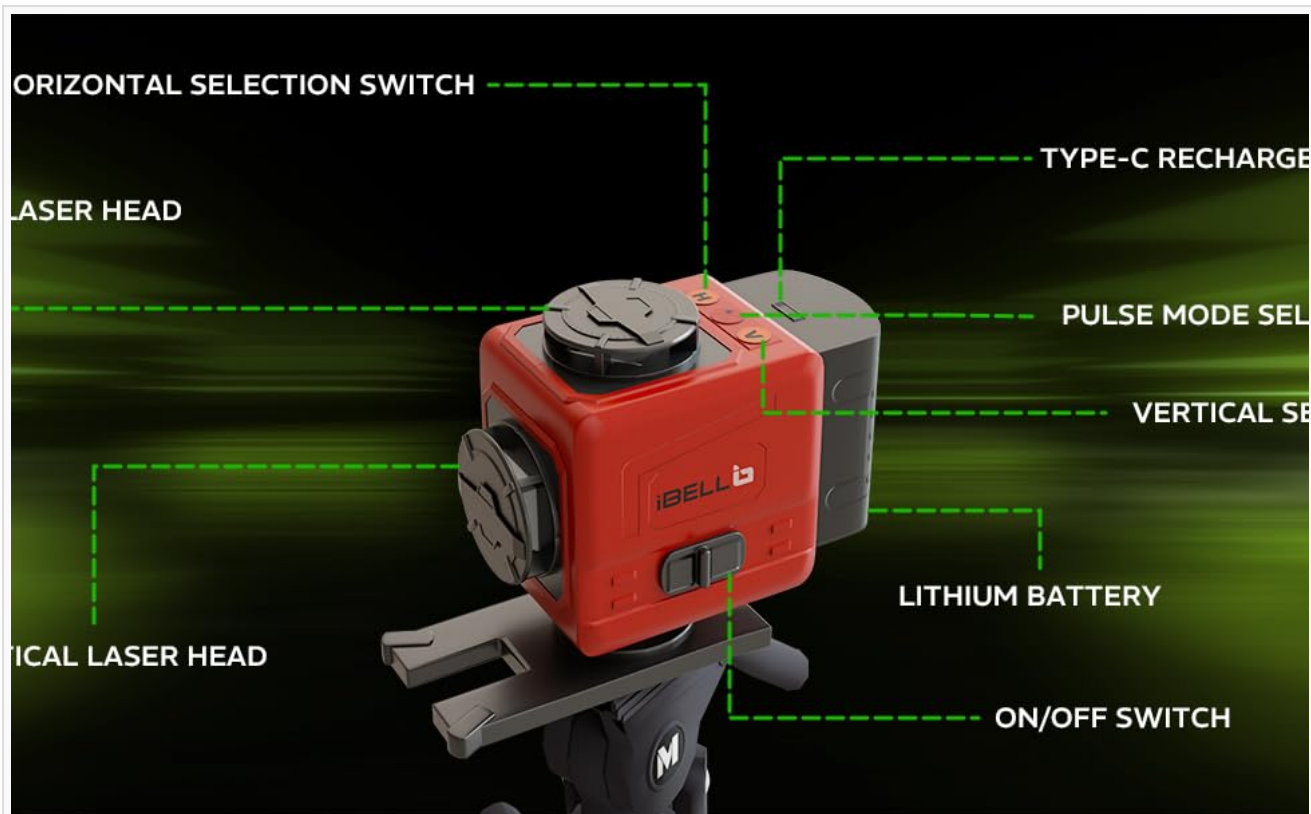


Figure 5.1: Key components and controls of the iBELL LL5-16 laser level.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

To power on the device, slide the ON/OFF switch to the 'ON' position. The laser lines will activate, and the device will begin self-leveling. To power off, slide the switch to the 'OFF' position.

6.2 Self-Leveling Mode

When powered on, the device automatically enters self-leveling mode. If the device is placed on an uneven surface beyond its $\pm 1^\circ$ self-leveling range, the laser lines will flash rapidly, and an audible alarm may sound, indicating that the device needs to be adjusted to a more level position.

6.3 Manual Mode (Slope Function)

To use the device in manual mode for projecting lines at an angle, first ensure the device is powered off. Then, slide the ON/OFF switch to the 'ON' position while holding down the 'H' or 'V' button (refer to device diagram for exact button). This will disable the self-leveling function, allowing you to tilt the device to project sloped lines. The laser lines may flash slowly in this mode to indicate that it is not self-leveling.

6.4 Horizontal and Vertical Line Selection

Press the 'H' button on the device or remote control to cycle through horizontal laser line configurations (e.g., one horizontal line, multiple horizontal lines, or off). Press the 'V' button to cycle through vertical laser line configurations.

6.5 Pulse Mode

Activate pulse mode by pressing the dedicated pulse mode button (refer to device diagram). This mode is useful for outdoor applications or when using a laser detector to extend the working range. The laser beam will appear dimmer to the naked eye in pulse mode but is optimized for detection by a receiver.

6.6 Remote Control Usage

The included remote control allows for convenient operation of the laser level from a distance. It typically includes buttons for:

- **Horizontal Line Switch:** Activates/deactivates horizontal lines.
- **Vertical Line Switch:** Activates/deactivates vertical lines.
- **Indoor/Outdoor Switch:** May toggle pulse mode or adjust laser intensity for different environments.



Figure 6.1: The wireless remote control for the iBELL LL5-16, showing buttons for horizontal, vertical, and indoor/outdoor laser control.



Figure 6.2: Internal mechanism for enhanced green line visibility in the iBELL LL5-16 laser level.

7. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your laser level.

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the laser apertures are clean and free of dust.
- **Storage:** Store the device in its BMC box in a dry, cool place, away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.
- **Calibration:** While the device is self-calibrating within its range, periodic professional calibration may be required for critical applications to ensure continued accuracy.

8. TROUBLESHOOTING

If you encounter issues with your iBELL LL5-16, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|--|--|
| Laser lines are flashing rapidly and/or alarm sounds. | Device is outside its self-leveling range ($\pm 1^\circ$). | Adjust the device's position to a more level surface until the lines become stable. |
| Laser lines are dim or not visible outdoors. | Bright ambient light. Pulse mode not activated. | Activate pulse mode. Use a laser detector for outdoor use. Work in shaded areas if possible. |
| Device does not power on. | Low battery. Incorrect battery installation. | Charge the battery. Ensure batteries are inserted with correct polarity. |
| Remote control not working. | Remote battery low. Obstruction between remote and device. | Replace remote battery. Ensure clear line of sight to the device's sensor. |

9. SPECIFICATIONS

| Specification | Detail |
|---------------------|--------------------------------|
| Model | IBL LL5-16 |
| Laser Type | Green Beam 520/505nm |
| Laser Class | Class II |
| Number of Lines | 16 (8 Horizontal & 8 Vertical) |
| Working Range | 25m / 82ft |
| Accuracy | $\pm 1\text{mm}$ @25m |
| Self-Leveling Range | $\pm 1^\circ$ |
| Battery Type | Rechargeable Lithium |
| Runtime | 4-8 hours (with 2 batteries) |

| Specification | Detail |
|---------------------|-----------------|
| Charging Port | USB Type-C |
| Working Temperature | -20°C to 40°C |
| Product Dimensions | 30 x 21 x 17 cm |
| Item Weight | 2.21 kg |
| Country of Origin | China |

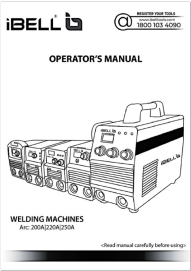



10. WARRANTY AND SUPPORT

This product comes with a **6-month service warranty** from the date of purchase. During this period, any manufacturing defects or service-related issues will be addressed as per our warranty policy. For warranty claims or technical support, please contact the manufacturer or authorized service center.

Importer/Packer: HITECH MACHINERIES & EQUIPMENT, 1800 103 4090

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Related Documents - LL5-16

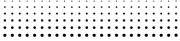
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|---|---|
|  | <p>iBELL MMA Welding Machines Operator's Manual</p> <p>Comprehensive operator's manual for iBELL MMA welding machines, covering safety precautions, product overview, specifications, setup, operation, controls, troubleshooting, and maintenance for models IBL M200-89, M200-77, M220-76, M220-78, M250-103, and M250-104.</p> |
|  | <p>iBELL IBL MPK 12M Electric Kettle User Manual</p> <p>User manual for the iBELL IBL MPK 12M Electric Kettle, providing safety instructions, operation guidelines, features, and warranty information.</p> |
|  | <p>iBELL IBL WIND P10 R Pedestal Fan - Instruction Manual & Warranty</p> <p>Comprehensive instruction manual and warranty information for the iBELL IBL WIND P10 R Pedestal Fan, covering safety, assembly, operation, cleaning, and warranty terms.</p> |
|  | <p>IBL 20YO-102Y User Manual - Ibell Kitchen Appliance</p> <p>User manual for the Ibell IBL 20YO-102Y kitchen appliance, providing detailed instructions on operation, safety, maintenance, and troubleshooting.</p> |



**IBL SM 1201G
SANDWICH MAKER**

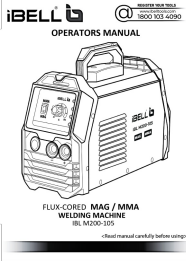
INSTRUCTION MANUAL

Please read carefully before use and keep for future reference



[iBELL IBL SM 1201G Sandwich Maker Instruction Manual - Safe Use and Care](#)

Official instruction manual for the iBELL IBL SM 1201G Sandwich Maker. Learn about intended use, specifications, safety instructions, operation, cleaning, and disposal for this 2000W appliance.



OPERATORS MANUAL

FLUX-CORED MAG / MMA
WELDING MACHINE
IBL M200-105

Please read manual carefully before using

[iBELL IBL M200-105 Flux-Cored MAG/MMA Welding Machine Operator's Manual](#)

Comprehensive operator's manual for the iBELL IBL M200-105 welding machine, covering Flux-Cored MAG and MMA welding. Includes safety, specifications, operation, and troubleshooting.