

User Manual

What's in the Box?

- Drillseye
- Adapter
- Legs and screws
- Double sided adhesive tape X3

Introduction

Welcome to Drillseye, the professional-grade attachment designed to transform any standard drill or electric screwdriver into a precision instrument. This device ensures perfectly perpendicular drilling and provides exact depth control for a wide range of DIY and trade applications.

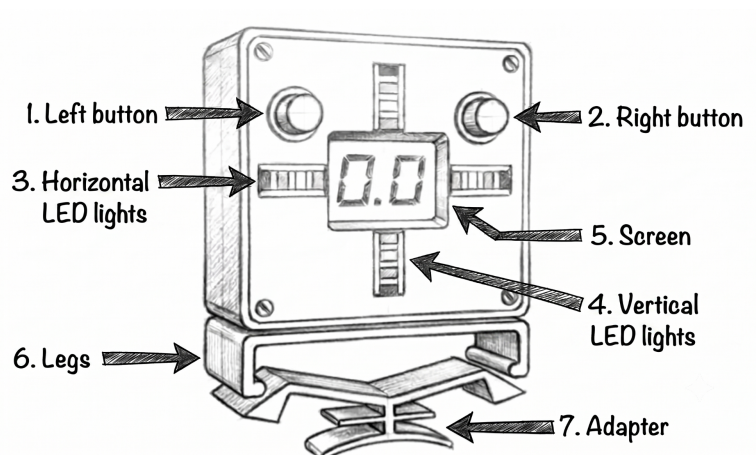


Illustration 1: Drillseye

- 1. Left Button** - Used for **calibration** and entering the **menu**.
- 2. Right Button** - Used for **power on/off** and **menu selection**.
- 3. Horizontal LEDs:** Indicate left–right axis alignment.
- 4. Vertical LEDs:** Indicate up–down axis alignment.
- 5. Screen:** Displays depth measurements and the menu.
- 6. Drillseye Legs**
- 7. Adapter:** The adapter is permanently attached to the drill, while the Drillseye unit is removable.

1. Installation Guide

1. Replace the red button, designed to prevent accidental switching on during transportation, with the black button cover found in the bag in the product box.
2. Take care in selecting whether you wish to attach Drillseye to the left of the drill or the top (illustration 2). For top attachment, install the legs **(6)** on the bottom of the Drillseye body; for left-side installation, affix the legs to the right side of the device.



Illustration 2: Drillseye leg installation below or on the right side of the device

3. Once you've decided whether to attach on top of the drill or to the left of it, find a suitable location on the drill body. Drillseye will work properly at a distance of 5-50 cm (2-20 Inch) from the wall. However, be sure to include the bit dimensions when you consider the placement of the attachment.

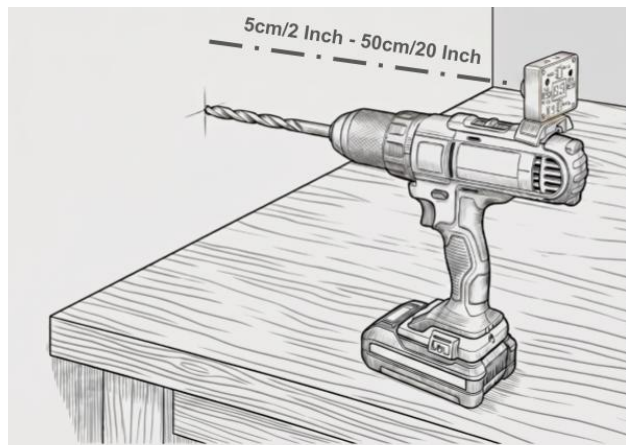


Illustration 3: Drillseye Adapter installation 5cm-50cm (2-20 Inch) from the wall including the drill bit.

4. Affix the double-sided adhesive pad to the curved section of the adapter **(7)**. Clean the surface of the drill before the attachment of the adapter. Press the other side of the adhesive pad firmly onto the drill so it bonds securely.
 - a. If you position the Drillseye above the drill body (illustration 4A), the line across the drill body serves as a useful alignment marker. Attach the center of the adapter's curved section to this line.

- b. For a left-side Drillseye placement (illustration 4B), ensure this center point resides roughly on the same horizontal plane as the drill bit.
- 5. Please notice that 50% of the strength of the adapter bond to the drill will be made after 20 minutes, 90% after 24 hours and 100% after 72 hours.
- 6. Make sure to charge Drillseye for the first time until the Green LED is illuminated (see Charging section for details).

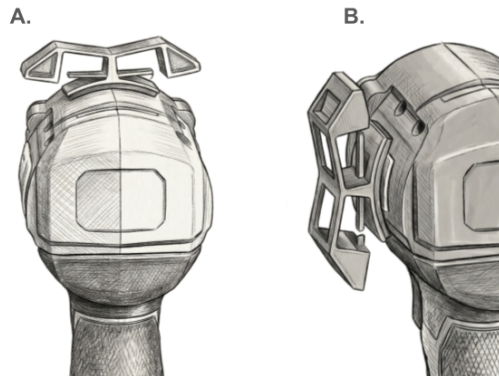


Illustration 4: An example of adapter placement above (A) or on the left of the drill (B).

2. Calibration

Following the attachment of the adapter to the drill, a one-time calibration is essential to ensure accurate measurements. Calibration corrects inaccuracies resulting from adapter misalignment. Should the adapter be transferred to a different drill, an additional one-time calibration will be required. The Drillseye LED lights provide guidance to maintain the same drill bit position relative to the surface that was established during calibration; consequently, the accuracy of the Drillseye is contingent upon the precision of the alignment during the calibration procedure.

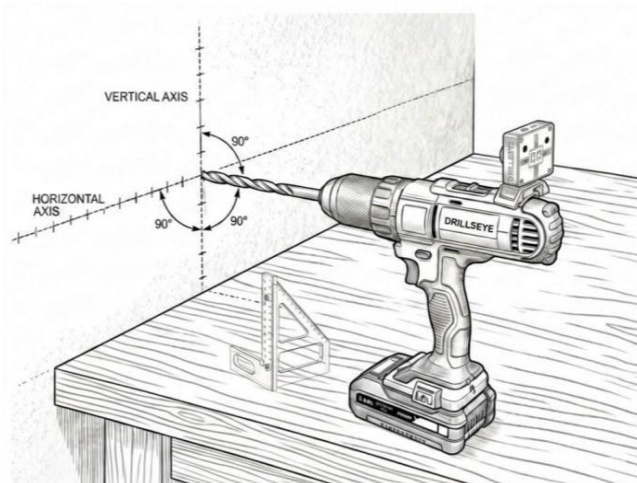


Illustration 5: Placement of the drill against the wall for single-time calibration.

1. Insert a drill bit into the drill.
2. Insert the Drillseye into the adapter, ensuring the sensors face forward and the screen faces backward.

3. Position the drill in close proximity to or touching a smooth surface, such as a wall, floor, or door. The drill should preferably remain stationary during calibration.
4. Ensure the drill bit is horizontally and vertically aligned with the surface (a triangle ruler may be helpful for positioning).
5. Press the left button briefly. "Cb" will appear on the screen, accompanied by three short buzzer beeps and four green lights flickering. The Drillseye is now ready for use on this drill.

3. Drillseye Operation

Drillseye uses acoustic sensors together with advanced signal-processing algorithms to track the drill's position and orientation in real time. It senses alignment in both the horizontal and vertical axes, assuming the **drilling surface is flat**.

For vertical alignment (up–down), the system relies on the upper and lower sensors. For horizontal alignment (left–right), it uses the side-facing sensors. Because of this, Drillseye requires an unobstructed path between its sensors and the drilling surface.

If you need to drill into a vertical beam, you can switch the Drillseye to **vertical-only mode**. The same applies when drilling into horizontal beams—set it to **horizontal-only mode** to ensure proper operation.

All measurements are shown in real-time on the digital display and through an intuitive LED “traffic-light” system. As you align the drill, the LEDs shift from Red → Orange → Yellow → Green, giving immediate visual feedback, with audible alerts confirming when the tool is perfectly perpendicular.

When alignment in all axes is achieved and all Green LEDs are lit, a long buzzer tone sounds and Drillseye automatically switches to depth-measurement mode. During drilling, the current depth is displayed in real time. Once you withdraw the drill, the system returns to angular-alignment mode. You can also exit drilling mode early simply by retracting the drill—when the measured depth returns to zero, the unit resumes tilt measurement.

Larger drills generally make it easier to reach the “all-green” zone. Drillseye lets you choose the alignment resolution (1.0°, 1.5°, or 2.0°), which determines how precise the alignment must be for the green LEDs to activate.

If Drillseye cannot measure the angle—due to excessive tilt, distance outside the operating range, or low battery—a single display segment will rotate around the perimeter. This typically occurs when the device is idle and will trigger an automatic shutdown after 30 seconds without a valid measurement.

4. Buttons Functionality

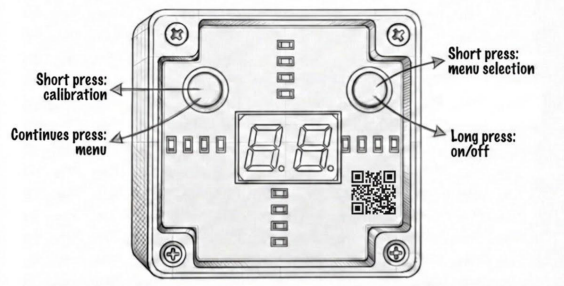


Illustration 6: Buttons operation

1. **Right Button (2) Long Press:** Turns the device on or off. Activation or shutdown is confirmed by a short buzzer beep and two quick cycles of LED flashes in the following sequence: red, orange, yellow, and green.
2. **Right Button (2) Short Press:** Used for selection within the menu mode.
3. **Left Button (1) Long Press:** Opens the device menu. Keeping the button pressed will cycle continuously through the available options: **Units**, **Buzzer**, **Axis**, **Resolution**, and **Factory Reset**. When the desired option appears on the display, release the button. Use short presses on the right button to change the setting. Once finished, a short press on the left button returns the device to measurement mode.
4. **Left Button (1) Short Press:** Initiates the calibration process [**Display:Cb**]. Upon completion of calibration, three short buzzer beeps are emitted.

5. Parameter Settings

1. **Units of Measurement [Display: Un]:** Select between Inches and Centimeters for depth measurements [**Display: C/In**].
2. **Buzzer Functionality [Display: bP]:** Select between On or Off [**Display: On/OFF**].
3. **Axis Selection [Display: AH]:** Choose measurement axes: Vertical and Horizontal, Vertical only, Horizontal only, [**Display: +/ || / --**].
4. **Green Light Alignment Resolution [Display: rE]:** Select between 3 levels of the green light resolution: High (1°) /Medium (1.5°) /Low (2°) [**Display: 1, 1.5, 2**].
5. **Factory Reset [Display: Fr]:** Select between writing factory settings or aborting [**Display yS/nO**]. Upon selecting Yes, the default factory settings will be used in the device.

6. Troubleshooting

Problem	Solution
Drillseye is not turned on	Charge the battery
The Drillseye screen shows a circling segment in every position (unable to measure).	Charge the battery. If the problem persists, reset the device by briefly pressing both buttons simultaneously.
Drillseye shows false measurements.	Recalibrate the device. Ensure the drilling surface is smooth.
Drillseye is not working properly on a different drill.	Recalibrate the device for the new drill.
Difficult to reach "all green" alignment.	Change the LED alignment resolution (rE menu) to 2.0. Ensure the surface is smooth.
Drillseye is showing depth measurement while I want alignment measurements.	Retract the drill back to below 0 cm depth.

7. Battery Charging

The device contains a built-in rechargeable Li-Ion battery that must be charged before first use. Charge the unit using a USB-C power adaptor and a suitable power supply (not included). A full charge takes approximately 2 hours. During charging, the charging LED indicator glows red; once charging is complete, the LED turns green. Under normal operation, the device can run continuously for roughly two hours, depending on the selected settings. When stored, the battery should be recharged at least once every three months to maintain optimal performance.

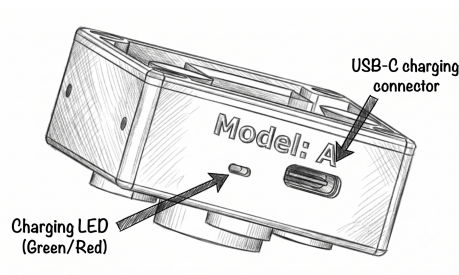


Illustration 7: Red (charging)/Green (fully charged) light and the charging connector.

- Battery Type: Rechargeable Li-Ion battery
- Charging Interface: USB-C
- Charging Time: Approximately 2 hours
- Operating Time: ~2 hours of continuous work (varies based on settings)

- Storage Maintenance: Recharge every 3 months during non-use
- Drillseye is not waterproof/dustproof or complies with IP67
- LED Indicators:
 - Red: Charging
 - Green: Fully charged

8. Sensor System

- Sensor: High-precision acoustic sensor
- Measurement Accuracy: 0.1 degrees

9. Physical Characteristics

- Dimensions: 42× 42× 23mm (excluding legs and attachment)
- Weight: 35 gram (excluding legs and attachments)
- Housing Material: PETG
- Adapter adhesive tape: Double sided, 2mm thickness, VHB
- Legs screws: self tapping, M2, 7mm.
- Mounting Method: Adhesive and clip

10. Environmental Conditions

- Operating Temperature: 5°C to 40°C
- Storage Temperature: -10°C to 60°C
- Humidity: 10–90% non-condensing

11. Regulatory and Compliance Information

Drillseye meets FCC Part 15 requirements. Drillseye is intended for home use.

Your Drillseye is covered by a 6-month warranty from the date of purchase. This guarantee specifically covers the essential components of your device, including the battery. If any of these parts fail due to regular use during this period, we will gladly repair or replace them. For support contact us at Support@drillseye.com

12. Website

Scan the following QR code for additional information from Drillseye website, <https://www.drillseye.com>.

