# INKBIRD

# INDOOR RADON MONITOR

INK-RD3

U S E R   M A N U A L

Please keep this manual properly for reference. You can also scan the QR code to visit our official website for product usage videos. For any usage issues, please feel free to contact us at **support@inkbird.com.**

***Warm tips***

- To quickly jump to a specific chapter page, click on the relevant text on the contents page.

- You can also use the thumbnail or document outline in the top left corner to quickly find a specific page.
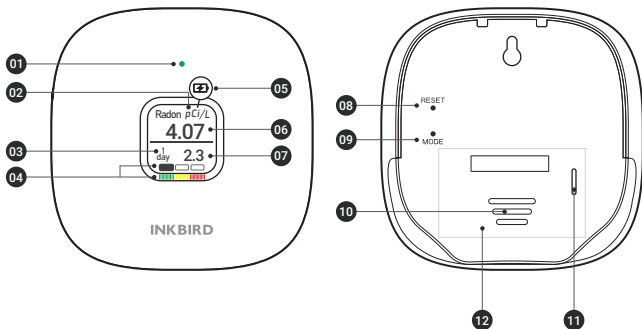
# CONTENTS

## 1. Overview

The INK-RD3 Radon Monitor is an innovative cordless device that provides effortless monitoring of indoor radon levels, offering a convenient solution for radon detection and measurement. The device features a power-efficient e-ink screen with an extended battery life, allowing you to conveniently view measurement data without worrying about battery depletion.Furthermore, it is equipped with visual notifications that alert you when radon concentration levels reach unhealthy levels, ensuring prompt awareness of potential radon exposure. It is designed to provide you with convenient and reliable radon monitoring, and is suitable for use in a variety of indoor environments, including homes, schools, offices, and more.

## 2. Technical Specifications

| | |
|---|---|
| **Product Name** | Indoor Radon Monitor |
| **Model Number** | INK-RD3 |
| **Manufacture Model** | RN-300S |
| **Screen Type** | 1.54 inches e-ink screen |
| **Powered by** | 3 AAA alkaline batteries (LR03) |
| **Battery Life** | 2 years |

| | |
|---|---|
| **Detecting Technology** | Passive radon diffusion chamber |
| **Sensor Type** | Alpha spectrometer sensor |
| **First Radon Measurement Result** | About 24 hours after powering on |
| **Data Refreshing Interval** | 1 hour (updating the average of the previous hour) |
| **Measurement Range** | 0~500 pCi/L (0~9999 Bq/m³) |
| **Accuracy/Precision** | Typical: 5.4 pCi/L (200 Bq/m³)<br>7 days<10%; 2 months<5% |
| **Radon Level Visual Indicator** | LED light and 3-color bars<br>(Red for danger; yellow for warning; green for safe) |
| **Operating Environment** | Temperature 0~40°C<br>Relative Humidity < 85% |
| **Product Size** | 103 mm (D) X 33.3 mm (H) |
| **Weight** | 157 grams (incl. batteries) |
| **Package Including** | 1 x Radon Monitor<br>3 x AAA Batteries<br>1 x User Manual<br>1 x Operating Needle |

# 3. Product Introduction



① **LED indicator light:** Flashes every minute when the device is in operation

| | |
|---|---|
| 🔴 | ≥4 pCi/L (≥150 Bq/m³) |
| 🟠 | 2.7~3.9 pCi/L (100~149 Bq/m³) |
| 🟢 | < 2.7 pCi/L ( < 100 Bq/m³) |

② **Unit for measurement results:** Selectable between pCi/L and Bq/m³

③ **Short-term measurement period:** 1 day

④ **Radon level indication:**

| | |
|---|---|
| <span style="color:red">■</span> | ≥4 pCi/L (≥150 Bq/m3) |
| <span style="color:orange">■</span> | 2.7~3.9 pCi/L (100~149 Bq/m³) |
| <span style="color:green">■</span> | < 2.7 pCi/L ( < 100 Bq/m³) |

⑤ **Low battery level indicator:** Change batteries once this icon appears

⑥ **Long-term average:** The average radon value for the ongoing measurement, max one year (updated once a day)

⑦ **Short-term average:** The average radon value for the last day (updated hourly)

⑧ **Reset button:** Press to restart the device and all data will be cleared

⑨ **Mode button:** Press once to see the number of measurement days since the last reset; Long press to change the measurement unit

⑩ **Push to open the battery cover**

⑪ **Battery tab:** Remove to turn on

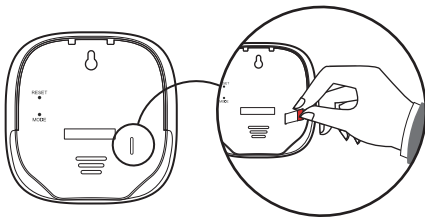⑫ **Battery compartment** for 3 AAA alkaline batteries (LR03)

## 4. Safety Information

Ⓐ Do not open the front or rear covers.

Ⓑ Do not subject the unit to shock, impact, pressure, vibration,dust or moisture.

Ⓒ Do not expose the unit to direct sunlight for long periods.

Ⓓ Use only LR03 AAA alkaline batteries.

Ⓔ Do not expose batteries to flames or other sources of intense heat.

Ⓕ Battery terminals must not be touched and must be kept free from dust, sand and liquids.

## 5. Product Operation

### Turn on the monitor

① Pull out the battery tab on the back of the device to activate the monitor.

The screen then displays "CALIBRATING" to indicate that the monitor is in the self-test phase. This should take less than 1 minute.

```
CALIBRATING
- - - - -
01
```

② The E-ink screen will show "DATA COLLECTING" and up to 6 flashing bars indicating the time remaining until radon levels are displayed. This phase is used to collect data for an initial radon level calculation. The typical duration of this phase is 24 hours. The Led indicator at the top of the monitor flashes every minute when the monitor is active.

```
DATA COLLECTING
- - - - -
Bq/m³
```

③ Place the monitor in living areas (e.g. bedroom and living room) and in locations that are representative of the air breathed in each living area.
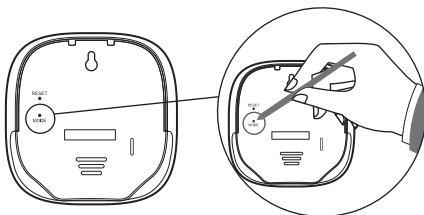
**NOTES:**

**1.** The monitor should not be exposed to direct sunlight or moisture.It should be placed at least 50 cm above the floor and at least 150 cm from the nearest door, window or vent.

**2.** Do not move it during measurement.

**3.** If the screen displays an error message with "SORRY", press RESET or take out the batteries and clean the battery contacts, then reinsert them after more than 30 minutes. If the error message persists, please contact customer support.

---

**SORRY!**

Please take out the batteries and reinstall them after more than 30minutes.

---

### 🌿 Change measurement unit

① Use the supplied needle to press and hold the MODE button for more than 1 second to enter the setting.

② Press the MODE button once to select between Bq/m³ and pCi/L.

| Bq/m³? | pCi/L? |
|---|---|
| Press Mode to confirm | Press Mode to confirm |

③ Press and hold the MODE button for more than 1 second to confirm your selection.

| Bq/m³? | pCi/L? |
|---|---|
| Press Mode to confirm | Press Mode to confirm |

④ Again, press and hold the MODE button for more than 1 second, or wait a few seconds without operation, to save the setting and return to the normal display.
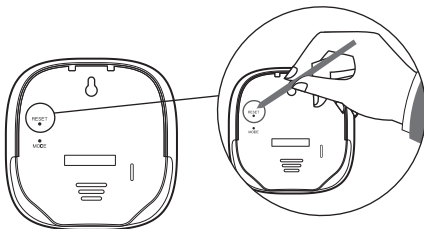
### 🍃 Check how many days it has been measuring

Use the supplied needle to press the MODE button once to check the number of measurement days since the device started for the first time or the last RESET operation.

```
MEASUREMENT DAYS
     038
     DAYS
```

### 🍃 Reset the monitor

Use the supplied needle to press and hold the RESET button for more than 1 second to restart the monitor. Please note that resetting will remove all stored radon data. Write down all previous readings before using the RESET button.

## 6. Customer Service

This item carries a 1-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of INKBIRD, be either repaired or replaced without charge. For any problems in use, please feel free to contact us at **support@inkbird.com**. We will do our best to help you.

# INKBIRD TECH.C.L.

support@inkbird.com

**Factory address:** 6th Floor, Building 713, Pengji Liantang Industrial Area, NO.2 Pengxing Road, Luohu District, Shenzhen, China

**Office address:** Room 1803, Guowei Building, NO.68 Guowei Road, Xianhu Community, Liantang, Luohu District, Shenzhen, China

Made in China