



## BEDDOT USER MANUAL

**CONTINUOUS REAL-TIME MONITORING OF PATIENT BED OCCUPANCY AND VITAL SIGNS**

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- Intelligent Dots warrants to the original retail purchaser that it will repair or replace the software contained within the BedDot for a period of 12 months. However, Intelligent Dots does not warrant that the software is error-free. Provided the customer notifies Intelligent Dots in writing of any breach of the foregoing warranty during the warranty period, Intelligent Dots shall correct any reproducible errors that cause the breach of the warranty in accordance with its technical support policies.

## **Errors and Omissions**

If errors or omissions are found in this manual, please notify Intelligent Dots.

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## 1. Product introduction

Name: BedDot

Product name: BedDot non-contact bed exit and physical signs monitor

Model: Genesis

Welcome to BedDot, an innovative, real-time, contactless sleep and vital signs monitoring device. BedDot continuously monitors sleep activity and vital signs without requiring any physical contact with the body.

### Indications for Use

BedDot is a non-contact bed occupancy and vital signs monitor. It can be used to continuously measure a patient's heart rate (HR), respiration rate (RR) and blood pressure (BP) when the patient sleeps on bed with BedDot installed under the bed. The HR, RR and BP are calculated from the seismic waveforms generated from heartbeats, respiration respectively. The device is intended for use by clinicians or other properly trained medical personnel.

Contraindications: The BedDot device is not suitable for the following individuals or situations:

1. Patients with severe arrhythmia: Such as atrial fibrillation, ventricular tachycardia, or other conditions that may interfere with accurate heart rate monitoring.
2. Extremely obese or underweight patients: Abnormal weight distribution may affect the sensitivity of bed vibrations, resulting in inaccurate readings.
3. Patients with sleep apnea syndrome: Periodic or prolonged respiratory pauses may disrupt normal respiration monitoring.
4. Strong vibration interference environments: Locations near machinery or persistent vibration sources may cause interference and measurement errors.

Scope of application: The non-contact physical signs monitor is suitable for heart rate (HR), respiration rate (RR) and blood pressure (BP) measurement of adults over 12 years old in hospitals.

User qualifications: No qualification requirements. The heart rate (HR), respiration rate (RR) and blood pressure (BP) value measured by this device is equivalent to the value measured by the auscultation method, and its error meets the requirements of ISO 81060-2:2018.

### BedDot includes features:

- **Real-time non-contact and continuous monitoring** of bed exit, body movement and sleep status, and **vital signs**: heart rate, respiratory rate and blood pressure.
- **Data Visualization**: real-time data and historical trends via a web portal; support zoom-in and zoom-out of historical data.
- **Communication**: Wi-Fi by default.
- **Health Monitoring**: Heart rate, respiration rate, and blood pressure are continuously monitored, with color-coded indicators for easy interpretation.
- **Occupancy & Movement Tracking**: Bed occupancy and body movement are tracked and displayed, providing insights into user activity levels.



## 2. User Responsibilities

The BedDot will perform in conformance with the description in this Operator's Manual and accompanying documentation when assembled, operated, maintained and repaired in accordance with the instructions provided.

A defective product or accessory shall not be used. Parts that are missing or damaged must be replaced immediately. Intelligent Dots accepts no responsibility for any malfunction of the BedDot that are a result of improper use, unauthorized repair or modification by the end user.

The BedDot provides readings that are to be interpreted by trained medical personal only. Any clinical judgment is the sole responsibility of the end user and should be made in conjunction with all other available clinical indications and data.

As with any monitored parameter, poor signal quality may lead to inappropriate heart rate and blood pressure values.

If the accuracy of any reading seems unusual or questionable, the operator shall validate the readings by using an alternate method of measurement.

The BedDot is intended only as an adjunct in patient health assessment, and therefore other clinical signs and symptoms must be considered by the clinician.

The BedDot is "MR Unsafe." Do not use the BedDot in a Magnetic Resonance Imaging environment.

## 3. Warnings

Strong magnetic fields may cause malfunction or damage to the unit. Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use

is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30cm (12 inches) to any part of the BedDot, including cables specified by the manufacturer otherwise degradation of the performance of this equipment could result.

Do not immerse the BedDot in liquid. Do not clean the device by submersing it in liquid, or using gasoline, thinner, or highly concentrated alcohol. Do not disinfect by autoclave or gas sterilization.

Do not use BedDot in the presence of flammable gas or in an oxygenenriched atmosphere.

If the accuracy of any measurement is questionable, first check the patient's vital signs by alternate means then check the device for proper functioning.

#### 4. Cautions

Federal Law restricts the BedDot to be sold as a medical device, before FDA clearance.

#### 5. Security

The BedDot uses industry standard Wi-Fi wireless protocols. Follow your institutional protocols for wireless security. It is highly recommended that for data forwarding applications a minimum of WPA2 wireless encryption on a secure network is used.

No patient identifiable information is stored by the BedDot. Follow your institutional protocols for handling sensitive information.

#### 6. System Overview

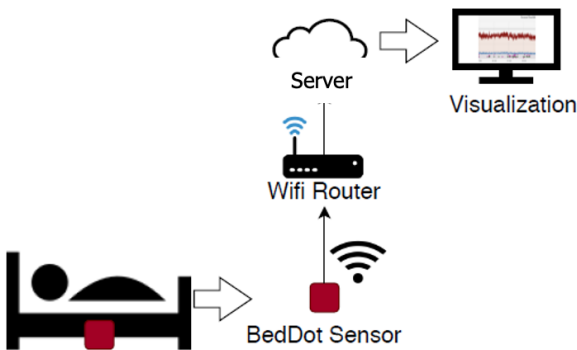


Figure 1. BedDot system architecture

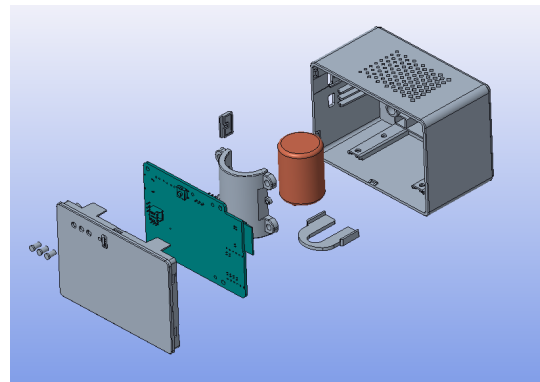


Figure 2. BedDot sensor device components

A BedDot system includes one or many BedDot devices and one Server. BedDot integrates advanced seismic sensor technology and comes with WiFi for continuous data transfer to WiFi. The Server processes the sensor data stream and calculates heart rate, respiration rate, blood pressure, bed occupancy and body movement. The Server also provides a web-based interface for real-time visualization and historical data review of the aforementioned vital signs, with a color-coded display to indicate the health status of each value.

## Measurement Principle

BedDot uses advanced sensor technology to measure various physiological parameters in a passive and non-invasive manner while the user is lying in bed. The system tracks vital signs and monitors bed occupancy and body movement as follows:

- **Heart Rate (HR) Measurement:** BedDot detects micro-vibrations generated by cardiac contractions through its ultra-sensitive sensors placed beneath the bed. The raw seismic waveform is processed using advanced denoising and signal recovery algorithms to isolate the periodic heartbeats from ambient noise and other physiological signals. The heart rate is measured by counting the detected heartbeats over a 10-second rolling window.

- **Respiration Rate (RR) Measurement:** Respiration cycles are derived from the rhythmic displacement caused by thoracic and abdominal movements during breathing, captured by the same sensor array. The raw signal undergoes advanced processing, including signal denoising and frequency-domain analysis, to extract respiratory patterns while filtering out interference from cardiac activity and movement artifacts. The respiration rate is computed over a 45-second time window to capture both slow and rapid breathing patterns, ensuring accuracy under various conditions.

- **Blood Pressure (BP) Measurement:** Blood pressure (systolic and diastolic) is measured using a proprietary AI-powered time series model. This model, trained with data from FDA-cleared continuous blood pressure monitoring devices, analyzes temporal changes in the seismic waveform related to vascular compliance and pulse pressure variations. Key features, such as waveform amplitude and time-frequency features, are extracted and fed into the model to estimate blood pressure values. Real-time validation mechanisms cross-reference outputs with historical data to enhance reliability. Measurements are derived from the past 10 seconds of sensor signals, enabling continuous and non-invasive BP monitoring.

- **Bed Occupancy Detection:**

- The system detects whether the user is in or out of bed and displays this information on the status bar.
- The bed occupancy state is determined within approximately 30-60 seconds.
- This feature helps caregivers monitor whether the user has left or entered the bed.

- **Body Movement Monitoring:**

- BedDot monitors movement during sleep, with green dots appearing on the display when movement is detected.
- After waking up, users can review the movement data to assess the quality of their sleep and physical activity.
- This feature provides valuable information for evaluating sleep patterns and user activity levels.

BedDot currently does not require periodical calibration.

## 7. Technical Specifications

Model	BedDot
Dimension	92 mm x 63.5 mm x 53.48 mm
Mass	300 g
Measurement	<ul style="list-style-type: none"><li>● Heart rate measurement: Range: 40-150 bpm, Accuracy: 1 bpm, Error: <math>\pm 3</math> bpm</li><li>● Respiration measurement: Range: 8-40 bpm, Accuracy: 1 bpm, Error: <math>\pm 3</math> bpm</li><li>● Blood pressure measurement: Systolic Range 90-160 mmHg, Diastolic Range 50-110 mmHg, Accuracy: 1 mmHg, Error: <math>\pm 5</math> mmHg</li></ul>

Protection Class	Internally powered equipment.
Applied Part Type	Type B
Power	USB-C, 5V DC
Expected service life	10 Years
Accessories	Power Adapter,USB-C cable,Adhesive Metal, Instruction Manual

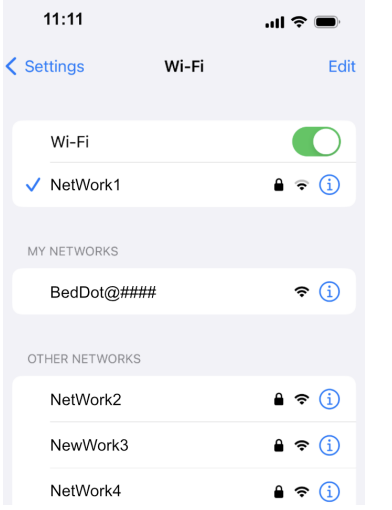
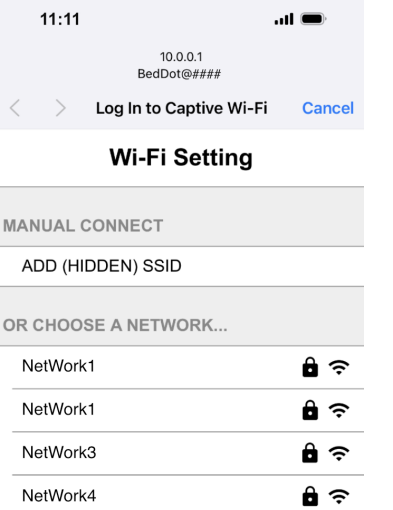
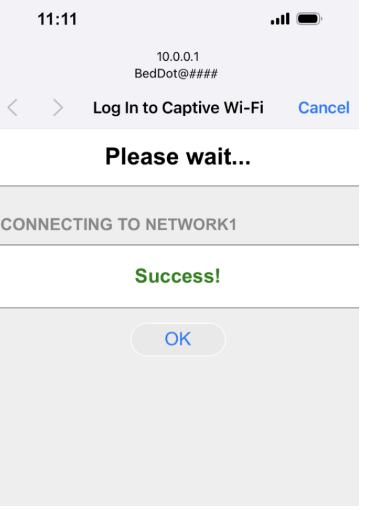
To improve performance, these specifications are subject to change without notice. The device, accessories and the packaging have to be disposed of correctly after the end of the usage, so that the risk of patient or user can be lowered to an acceptable level.

## 8. Installation and usage instructions

BedDot contains a high-precision sensor. Please handle it with care during installation, use, and movement to avoid damage to the sensor caused by severe impact. When transporting, pay attention to packaging and protection to avoid strong impact. The standard version of BedDot is equipped with a WiFi wireless communication module.

### 8.1 WiFi Settings

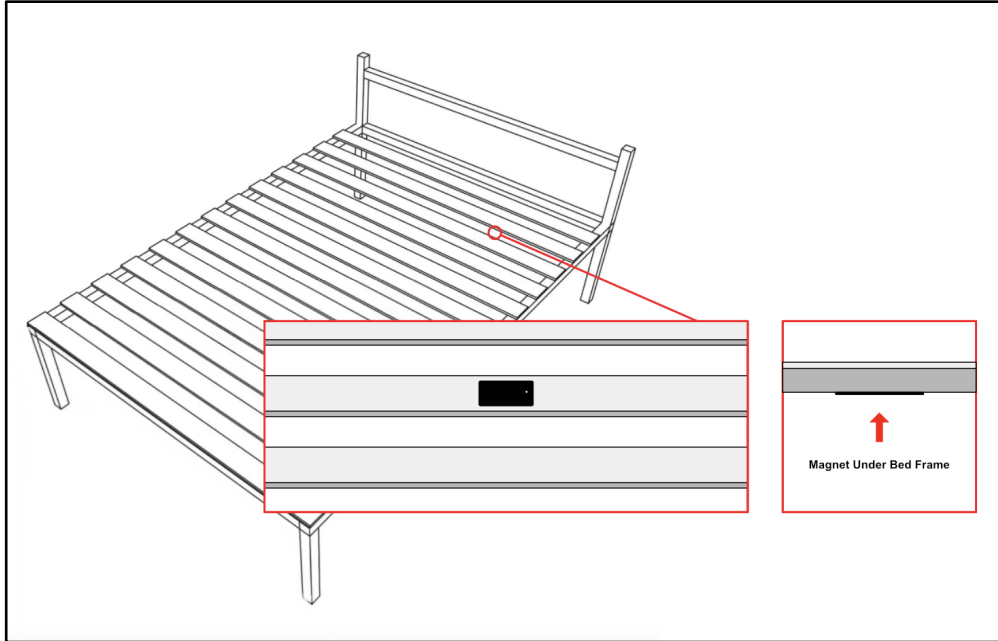
Connect the device to a power outlet using the provided USB cable, making sure the device's light is on. Open the mobile WiFi interface and look for the SSID "BedDot@####", where #### is the 4-digit number that identifies your BedDot.

		
<p><b>Step 1: Connect to BedDot</b> Click on the network named "BedDot@####" where #### is the unique 4 character identifier assigned to your BedDot.</p>	<p><b>Step 2: Select WiFi SSID</b> After connecting to the BedDot network, you will automatically be entered into the WiFi settings page. Allow at least 5 seconds for the page to pop up.  Select the WiFi SSID and enter the WiFi password you want to connect the BedDot to.</p>	<p><b>Step 3: Complete WiFi setup</b> If the connection status is indicated as Success, click "OK" to exit and allow at least 5 seconds before using the BedDot.  If the connection status is indicated as Connection Failure, verify you entered the correct WiFi password and try again.</p>

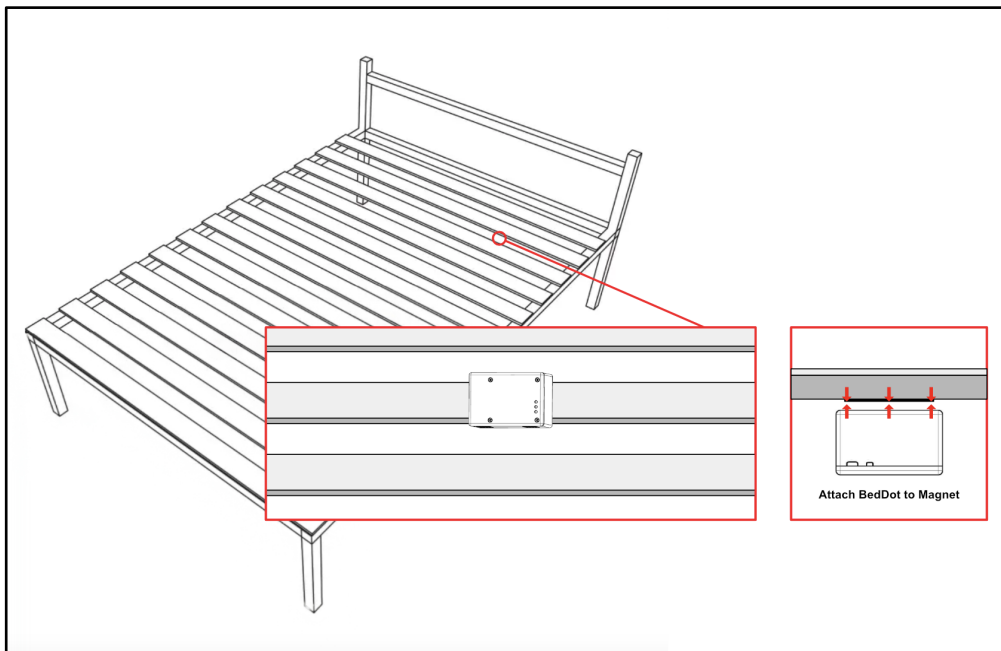


## 8.2 Installation under a bed

1. Clean the surface and attach the adhesive metal under the frame of the bed in the location you want the BedDot to be installed. The optimal location for the BedDot is around the chest area of where the user will be sleeping.

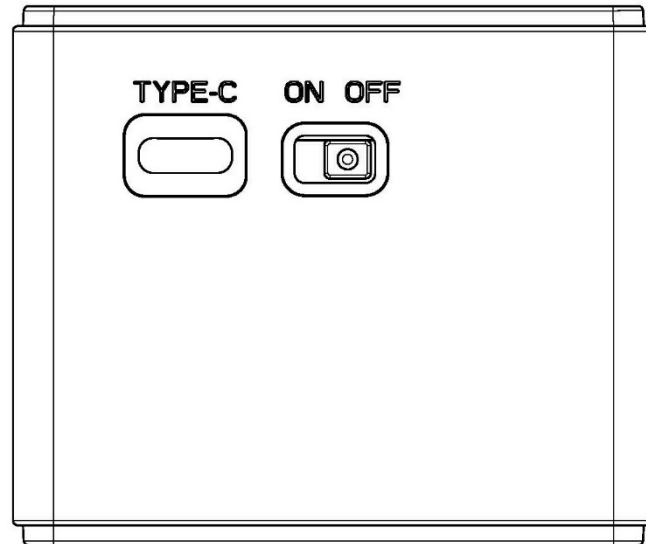


2. Magnetically attach the device to the metal board on the frame of the bed, keep the device upright, and use it after plugging in the power supply. (If the Bed frame is metal, you may attach the BedDot without the adhesive metal board)



## 8.3 Switches and indicator lights

### 8.3.1 Switches and buttons



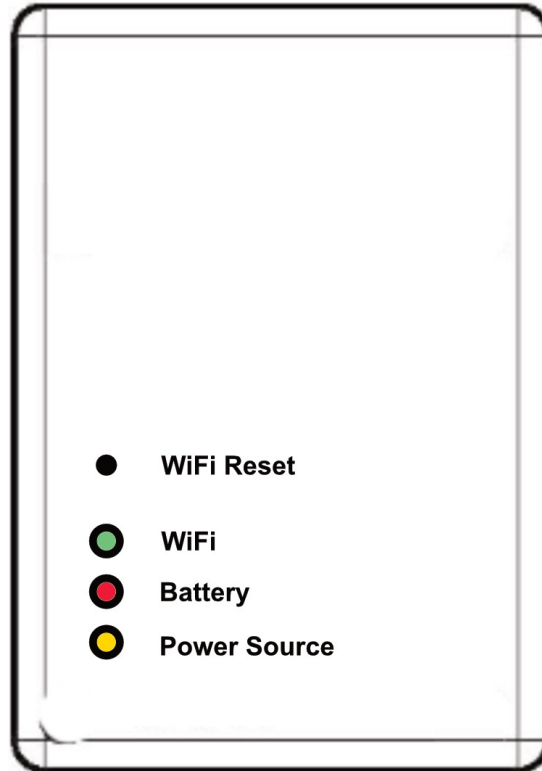
The toggle switch (the position close to the power USB interface is ON) is used to turn off or on battery power.; the turn-off function is mainly used during the shipment.

- During normal operation, be sure to turn it to the ON position to keep the rechargeable battery charged as a back-up power in case of power outage.
- When you need to transport BedDot to another location or do not want BedDot to continue running when removing the USB power supply, you can turn it to the OFF position.

The RESET hole can be used to reset WiFi configuration if necessary. Note that, when you move BedDot from one location to another location and the BedDot cannot find the previous SSID, it will automatically enter WiFi reset mode and there is no need to use RESET hole to reset WiFi.

- Use a pencil or needle to press and hold the RESET hole for 5 seconds, and the green LED should start flashing frequently to indicate the WiFi setting is reset successfully, and the BedDot@##### should show up in the WiFi SSID list of your mobile phone.

### 8.3.2 Indicator light



- Yellow: USB power indicator light. This will light up when the BedDot is connected to the USB power supply.
- Red: Battery power indicator. A solid red light means the battery is charging; when it is a flashing red light, it means that the BedDot is powered by the battery. The flashing period is 5 seconds, and the proportion of the lighting time is the proportion of the remaining battery capacity. For example, if the lighting time is 3 seconds, the remaining battery level is 60%.
- Green: Flashing at an interval of about 1 second indicates that BedDot data is sending normally. A rapid flashing green light means the WiFi is reset or not configured yet. See exception handling for rapid flashing.

If you no longer want to measure, please unplug the power, turn the switch to the "OFF" position, and turn off the BedDot. Put the device into the packaging box or a location that is not easily bumped, and keep the device from being shaken violently.

#### 8.4 Data visualization

**Web links:** <https://homedots.us:3000/>, **entering your account and password, you can log in and see the data.** Your vital signs can be viewed within 60 seconds of lying on the bed.



The first grid (Top Left) is in the bed occupancy status bar. You can judge the device status based on the displayed content.



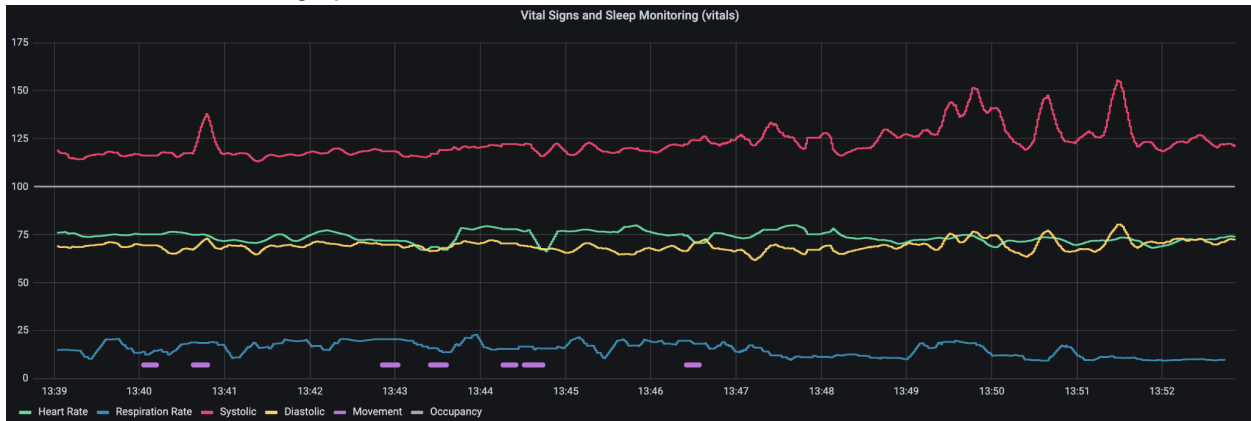
Bed Occupied	Bed Unoccupied	Detecting Occupancy	System Offline

**Heart rate, respiration rate, and blood pressure all display corresponding values.** Number colors correspond to the healthiness of the value. Orange means the value is low; red means the value is high; green means the value is normal.



### Color Key for Graph

The graph shows a line for each of the vital signs monitored over the period of time that the graph shows. Each value has a color key that corresponds with what it is tracking. This color key can be found in the bottom left corner of the graph.



### Color Key for Graph (Additional)

Occupancy: Indicates the state of bed occupancy, 100 means in bed, 0 means leaving the bed, and -100 means detecting or uncertain state when the person is moving on bed and there are strong vibration noises around the bed.

Movement: Each dot represents movement detected on the bed.

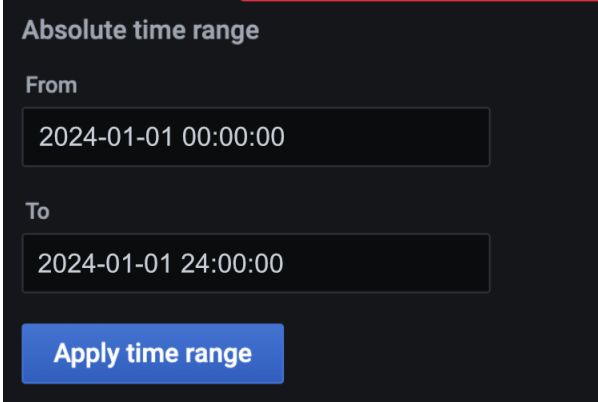

### View Historical Data

BedDot activity history can be viewed by changing the time frame of the data.

1. Locate time select menu near the top right of the dashboard.



2. Use the relative time range to view data or input an absolute time range.

<p><b>Input Absolute Time</b></p> <p>The time input uses the 24 hour time notation.</p> <p>YYYY-MM-DD hh:mm:ss Year-Month-Day Hour:Minute:Second</p>	<p><b>Relative Time Select</b></p> <p>Selecting the relative time will show the data in the frame selected.</p> <p>For example selecting “Last 5 minutes” will show data from the last 5 minutes.</p>
	

**Zoom in on Graph**

The graph may be zoomed in on by dragging your cursor across the area you would like to see.

Drag select desired time frame	View zoomed in data
--------------------------------	---------------------



## Measurement process

1. Heart rate measurement: After the status bar displays OnBed, you can enter the measurement state. After lying flat or on your side on the bed, wait for one minute and check the status bar value. If there is an abnormality in the value, please refer to the abnormality handling to adjust the equipment and measurement posture. If there is no abnormality in the above, please consult a doctor immediately.
2. Respiration rate measurement: After the status bar displays OnBed, you can enter the measurement state. After lying flat or on your side on the bed, wait for one minute and check the value in the status bar. If there is an abnormality in the value, please refer to the abnormality handling to adjust the equipment and measurement posture. If there is no abnormality in the above, please consult a doctor immediately.
3. Blood pressure measurement: After the status bar displays OnBed, you can enter the measurement state. After lying flat or on your side on the bed, wait for one minute and check the value in the status bar. If there is an abnormality in the value, please refer to the abnormality handling to adjust the equipment and measurement posture. If there is no abnormality in the above, please consult a doctor immediately.
4. Bed occupancy: After getting in or out of bed, the system will display the status on the status bar based on the situation of getting out of bed. The estimated time is 60 seconds. You can judge whether the monitored person is leaving the bed based on the state of leaving the bed, and take corresponding measures.
5. Body movement monitoring: During sleep, when there is body movement, green dots will be displayed in the numerical column below the status bar. When checking sleep status after waking up, you can view the branches of the green dots. Determine the quality of sleep and physical activity.

6. Alerts monitoring: the GUI will display a red dot that represents a type of alert (in the HTTP API function, these numbers are divided by 10):

- 10: On Bed Alert
- 20: Off Bed Alert
- 30: Heart Rate Too High Alert
- 40: Heart Rate Too Low Alert
- 50: Respiration Rate Too High Alert
- 60: Respiration Rate Too Low Alert
- 70: Systolic Blood Pressure Too High Alert
- 80: Systolic Blood Pressure Too Low Alert
- 90: Diastolic Blood Pressure Too High Alert
- 100: Diastolic Blood Pressure Too Low Alert

### 9. Precautions

1. Please keep the body in full contact with the bed while using the device.
2. The measurement is done while lying down, so the blood pressure value measured may be slightly different from the blood pressure value measured while sitting.
3. Any blood pressure measurement is affected by the posture and physical condition of the person being measured. Please remain quiet and do not move your arms or body while measuring.
4. For real-time measurement, the posture needs to remain unchanged for more than one minute.
5. Strong electromagnetic interference should be avoided when measuring. Possible interference sources such as microwave ovens, X-rays, etc.
6. Please do not use this product for purposes other than physical measurement and sleep monitoring.
7. If not used for a long time, the switch should be placed in the OFF position.
8. If the physical sign monitor is used or stored outside the temperature and humidity range specified in this manual, the safety and performance of the physical sign monitor may be compromised, or even damaged. For the specified temperature and humidity range, please refer to the relevant instructions in item 6 "Working and Storage Conditions" of this manual.
9. When parts need to be replaced, please use those provided by the manufacturer. Replacing the original parts with accessories not provided by the manufacturer may cause measurement errors.
10. People with severe arrhythmia are currently not suitable to use BedDot.

### 10. Exceptions and abnormality handling

Anomalies	Cause Analysis	Treatment method
Indicator light flashes green quickly	WiFi is not configured	Configure WiFi
	network anomaly	Ensure smooth network
Abnormal heart rate, respiration, blood pressure and other values appear	The device is installed in an incorrect location	Install according to the installation instructions
	Turned or moved during testing	Keep your body stable
	irregular heartbeat	People with severe arrhythmia should not use



		this physical sign monitor to measure
	Talking during the measurement process, feeling physically and mentally nervous or excited	Stay quiet and take 2 to 3 deep breaths to stabilize your mood and relax your body and mind.
	Not fully in contact with the bed	Adjust posture
	There is interference during the measurement process or improper operation during the measurement process.	See "Measurement Process"
Show Detecting	There is interference during the measurement process or improper operation during the measurement process.	remeasure
	no stillness	remeasure
Display Unit Off	The device is not connected to the Internet	Reconnect to the Internet
	The switch is not turned on or the power supply is not connected	Connect the power and turn on the switch

Note: If the abnormal situation cannot be solved by yourself, you can consult the manufacturer or the manufacturer's designated unit.

## 11. Working and storage conditions

### (1) Working conditions

#### 1. Working environment

- a) Temperature: 5 °C ~ 40 °C;
  - b) Relative humidity: not more than 80%;
  - c) Atmospheric pressure: 80 kPa ~ 105 kPa.
2. Working power supply voltage: 5V 1A

### (2) Storage conditions

If you no longer want to measure, please unplug the power, turn the switch to the "OFF" position, and turn off the BedDot. Put the device into the packaging box or a location that is not easily touched, and keep the device from being shaken violently. The packaged BedDot physical sign monitor should be stored in a room with a temperature of -20°C to 55°C, a relative humidity not exceeding 95%, no corrosive gasses, and a well-ventilated room.

## 11. Maintenance requirements

1. Avoid falling or strong collisions.
2. Avoid high temperature or direct sunlight.
3. Avoid immersing the machine in water.
4. Please do not disassemble or assemble the machine by yourself.
5. Please turn off the power if not used for a long time.
6. When cleaning, gently wipe the surface with soft cotton fabric.
7. This product has no parts that can be repaired by the user. If you need repair, please contact [info@intelligentdots.com](mailto:info@intelligentdots.com).

## 12. Product warranty information

From the date of purchase, with the warranty card and purchase invoice, you can enjoy the following after-sales services:

### 1. One year warranty





Warranty principles: ① Free warranty for product quality problems within one year. ② Maintenance is centralized to the maintenance departments of various locations of the manufacturer. ③ Problems caused by battery leakage, self-repair and disassembly, man-made damage, natural disasters, force majeure and other factors are not covered by the warranty.

### 2. Lifetime maintenance










## 13. Product List

Included Item	Quantity
BedDot	1
Power Cord	1
Power Adapter	1
Adhesive Metal	1
Instructions	1

Please make sure the box contains the following parts as shown in the picture below: *\*Please note that these shapes may not match exactly*

			
<b>BedDot device</b>	<b>Power adapter</b>	<b>USB-C cable</b>	<b>Adhesive metal</b>

#### 14. Graphic Symbol

	Batch code		Used By
	Manufacturer		Date of Manufacture
	Serial Number		Unique device identifier
	Refer to instruction manual		MR unsafe
	Indicates compliance with FCC standards	Rx Only	For prescription use only

#### 15. Electromagnetic Compatibility Instructions

This product meets the requirements of IEC 60601-1-2 in working mode. EMC standard is a standard formulated for the safe use of medical electrical equipment, which stipulates that the interference of electromagnetic waves generated by equipment to other equipment and the interference of electromagnetic waves emitted by other equipment (mobile phones, etc.) should be controlled within a certain range.

IEC 60601- 1-2 specifies the need to provide users with detailed information about the EMC environment for safe operation of equipment. The following is a description of EMC related technical specifications. (Please refer to IEC 60601- 1-2 for details)

Definition of EMC (Electromagnetic Compatibility):

EMC (Electromagnetic Compatibility) refers to the ability to meet the following two requirements.

--Emission Control: The device must not emit unwanted electromagnetic interference (EMI) that could

negatively impact the operation of other nearby electronic devices.

--Immunity to Interference: The device must be able to function properly and reliably in the presence of electromagnetic disturbances from other devices or environmental sources.

Technical instructions related to EMC (Electromagnetic Compatibility);

Warning: Portable and mobile radio frequency communication equipment may affect the normal operation of this instrument.

Warning: It is the user's responsibility to ensure the electromagnetic environment of the equipment so that the instrument can work normally.

Warning: It is forbidden to use this equipment beside strong radiation sources, otherwise, it may interfere with the normal operation of this equipment.

Warning: In addition to the accessories and cables sold by the manufacturer of BedDot as spare parts for internal components, the use of accessories, transducers and cables other than those specified may lead to increased emission or reduced immunity of equipment or system.

Warning: BedDot should not be close to or put into use with other equipment. If it must be close to or put into use, it should be observed and verified that it can operate normally under its used configuration.

Ambient electromagnetic fields may affect measurements.

**Essential performance:**

- Heart rate measurement: Range: 40-150 bpm, Accuracy: 1 bpm, Error:  $\pm 3$  bpm
- Respiration measurement: Range: 8-40 bpm, Accuracy: 1 bpm, Error:  $\pm 3$  bpm
- Blood pressure measurement: Systolic Range 90-160 mmHg, Diastolic Range 50-110 mmHg, Accuracy: 1 mmHg, Error:  $\pm 5$  mmHg

**Technical description**

a) the following statement: "The BedDot was tested according to the recommendations of IEC TR 60601-4-2: Medical electrical equipment-Part 4-2: Guidance and interpretation- Electromagnetic immunity: performance of medical electrical equipment and medical electrical systems.

b) a list of the ELECTROMAGNETIC phenomena and IMMUNITY TEST LEVELS with which the ME EQUIPMENT or ME SYSTEM complied according the recommendations of this document.

Guidance and manufacturer's declaration -electromagnetic emissions and Immunity

Table 1

Guidance and manufacturer's declaration - electromagnetic emissions
---

Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Not applicable
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Not applicable

Table 2

Guidance and manufacturer's declaration - electromagnetic Immunity		
Immunity Test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4 kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	±2 kV power supply lines ±1 kV signal input/output 100 kHz repetition frequency	Not applicable

Surge IEC 61000-4-5	±0.5 kV, ± 1 kV differential mode  ± 0.5 kV, ± 1 kV, ± 2 kV common mode	Not applicable
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Not applicable	Not applicable
Power frequency magnetic field IEC 61000-4-8	30 A/m  50Hz/60Hz	30 A/m  50Hz/60Hz
Conducted RF IEC61000-4-6	3 V  0,15 MHz – 80 MHz  6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz  80 % AM at 1 kHz	Not applicable
Radiated RF IEC61000-4-3	10 V/m  80 MHz – 2,7 GHz  80 % AM at 1 kHz	10 V/m  80 MHz – 2,7 GHz  80 % AM at 1 kHz
NOTE UT is the a.c. mains voltage prior to application of the test level.		

Table 3

Guidance and manufacturer's declaration - electromagnetic Immunity						
Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communication s equipment)	Test Frequency (MHz)	Band (MHz)	Service	Modulation	IEC 60601-1-2 Test Level (V/m)	Compliance level (V/m)
	385	380 - 390	TETRA 400	Pulse modulation 18 Hz	27	27
	450	430- 470	GMRS 460, FRS 460	FM ± 5 kHz deviation 1 kHz sine	28	28
	710	704- 787	LTEBand13, 17	Pulse modulation 217 Hz	9	9
	745					
	780					
	810	800- 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	28	28
	870					
	930					
	1720	1 700	GSM	Pulse modulation	28	28
	1845	-	1800;			

	1970	1 990	CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	217 Hz		
	2450	2 400 – 2 570	Bluetooth , WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	28	28
	5240	5 100	WLAN	Pulse modulation	9	9
	5500	–	802.11	modulation		
	5785	5 800	a/n	217 Hz		

Table 4

Guidance and manufacturer's declaration - electromagnetic Immunity				
Radiated RF IEC61000-4-39 (Test specifications for ENCLOSURE PORT IMMUNITY to proximity magnetic fields)	Test Frequency	Modulation	IEC 60601-1-2 Test Level (A/m)	Compliance level (A/m)
	30 kHz	CW	8	8



	134,2 kHz	Pulse modulation 2.1 kHz	65	65
	13,56 kHz	Pulse modulation 50 kHz	7,5	7,5

**16. Manufacturer information**

(1) Name of manufacturer: Intelligent Dots LLC  
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(2) Registered product standard number:  
 BedDot Genesis 1.0

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