



## INSTRUCTIONS FOR USE



### WHAT'S INSIDE



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## Disclaimer

## Research Use Only

MedBug is designed exclusively for research and investigational use. The device has not been evaluated or approved for clinical or diagnostic use and should not be relied upon to diagnose, monitor, treat, cure, or prevent any medical condition, including sleep disorders.

The information collected by MedBug is intended for research analysis only and should not be interpreted as medical advice or used to make healthcare decisions. If you have concerns about your health or sleep, please seek advice from a qualified healthcare professional.

By participating in this research, you acknowledge that MedBug is an experimental research device and that any data collected are for research purposes only.

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# SAFETY INFORMATION

## Important Safety Information



Use only supplied cables and power accessories.



Do not use if the sensor strip or cable is damaged.



Do not sharply bend, fold, or stretch the sensor strip.



Keep liquids away from the device.



Disconnect power before removing the sensor.



The device operates at low voltage (5V USB).

# WHAT'S IN THE BOX

1 MEDbug device V3

2 Sensor strip

3 Ethernet cable

4 USB Cable

5 5V power adapter



# BEFORE YOU START

## What you'll need

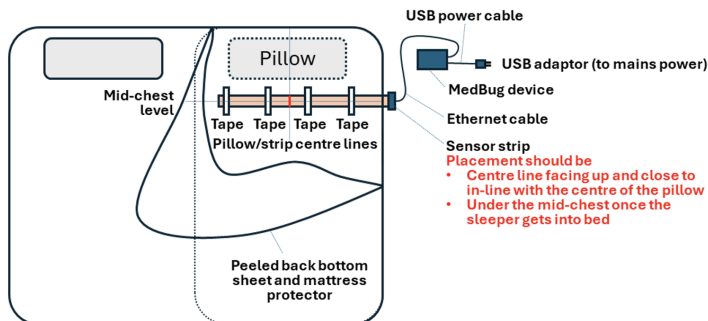
- Bed prepared normally
- Home Wi-Fi details
- Power outlet nearby

## STEP 1

Lift corner of:

- Bottom sheet
- Mattress protector

No need to strip the entire bed.



# SENSOR INSTALLATION

## STEP 2

Place the sensor:

- On top of mattress
- Under mattress protector
- Under sleeper's chest
- Centre line aligned with pillow

## STEP 3

Place the sensor:

- Tape sensor in 2–4 locations.
- Ensure connector hangs over mattress edge.
- Refit mattress protector and sheets.

Avoid:

- X Sharp bends, Twisting and Pulling cables.

# MOBILE APP SETUP (First Approach)

## STEP 4

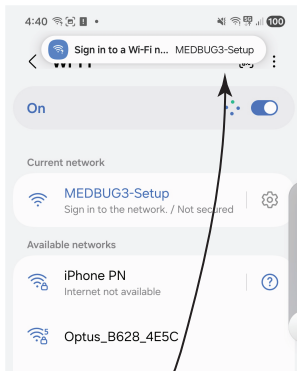
On any close-by phones:

- 1 Go to Wi-Fi settings.  
Select **MEDBUG3-Setup**

**A portal will automatically pop up.**

Wait 5-10 seconds for the networks list to load.

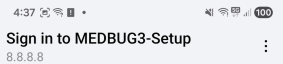
For some phones, a notification will appear. Click it to open the portal.



- 2 **Configure and Save Wi-Fi**

Select your home Wi-Fi network.  
Enter your Wi-Fi password.

Click 'Save'



### MEDBUG3 Wi-Fi Setup

Tap your home Wi-Fi, then enter password.

No Wi-Fi selected yet

Wi-Fi Password

Save and Reboot

Refresh Wi-Fi list

[Clear saved credentials](#)

iPhone PN (RSSI -48)

Optus\_B628\_4E5C (RSSI -58)

- 3 **Observe Device Reboot and Status LED**

The device will reboot after 3 seconds. If successful, the LED will show **Blue/Green**. If the setup fails, the LED will show red flashing. Try again by turn the device OFF/ON

# MOBILE APP SETUP (Second Approach)

Do not setup again if you are successful with the first approach

## STEP 4

- 1 Turn MedBug on.



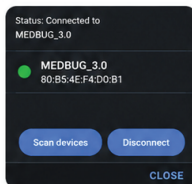
- 2 Open the MEDBugConnect app.



- 3 Slide left to right.  
The Settings window will be shown.

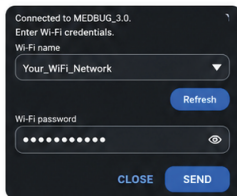


- 4 Go to Settings / Connect device (BLE)  
then tap **Scan devices**.  
Select **MEDBUG\_3.0**  
from the list.



Example:  
Tap Scan devices  
and select  
MEDBUG\_3.0

- 5 Select your Wi-Fi network  
from the list.  
Enter the password.



Select your  
Wi-Fi network

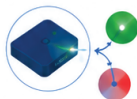
Enter your  
Wi-Fi password

- 6 Tap **SEND**.  
The device will reset  
(LED will change colours).



**Setup complete.**

The device will restart and  
connect to your Wi-Fi.



**i** If you see a red flashing LED after setup, check your Wi-Fi name and password and try again.

# TROUBLESHOOTING

## PROBLEM

## SOLUTION



**NO LED**

### Check USB power.

Look for the switch on the side of the MedBug device.  
Slide the switch to the ON position.



**ON**

Switch to the left



**OFF**

Switch to the right



The LED will light up when the device is ON.  
If no light appears, check the USB power connection.



**Keep in mind:** The LED adjusts its brightness according to the room light. So it may appear off when your light is off, but it is still working.



**RED FLASH**

Turn device OFF, then try the setup again.

**RE-DO STEP 4**



### IMPORTANT NOTES

- If you are unable to connect to Wi-Fi, do not worry. The device will still record data.
- With Wi-Fi, we can receive real-time data and accurate clock time while you are in bed.
- Without Wi-Fi, you may need to write down when you powered it on, as no actual clock time is recorded.



### Wi-Fi Benefits

- ✓ Real-time data
- ✓ Accurate clock time
- ✓ Remote data access

## Each night

- Ensure MedBug is powered
- Go to bed normally.
- Device automatically records.

## Automatic Recording

MEDBUG automatically starts recording when movement is detected and automatically stops recording after a prolonged period of inactivity. The device can remain powered on throughout the study.

# END OF STUDY



## Return Checklist

☐

MedBug device

☐

Sensor strip

☐

Ethernet cable

☐

USB cable

☐

Power adapter

☐

Sleep diary



## Contact details:



Study Coordinator

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Phone

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Email

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# SLEEP DIARY

## Sleep Diary Notes

To help us interpret your recordings, please use this space to note anything unusual about your sleep or the MEDBUG device.

### Examples

Normal night. No problems with the device.

Went to bed later than usual.

Woke up several times during the night.

Got out of bed for approximately 30 minutes.

The device was accidentally unplugged overnight.

The sensor strip moved and was repositioned.

Unable to connect the device to Wi-Fi.

Felt unwell or had a cold.

Took medication that may have affected sleep.

Partner reported loud snoring.

## SLEEP DIARY

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