

Sleep Apnea Detector & Monitor



i-Sleep is a new device based on new prognostic index to screen and monitor sleep apnea conditions using the analysis of expired breath during sleep. i-Sleep is able to continuously assess respiratory functions with minimal patient effort in various sleep settings. i-Sleep comes with a screen displaying the novel sleep apnea index, end-tidal carbon dioxide (EtCO₂) and respiration rate (RR). The patients only need to breathe comfortably during sleep to get the results. i-Sleep comes with a standard USB/SD card data storage powered by rechargeable batteries allowing data to be saved, monitored and analysed. The device is able to connect to smartphones via mobile apps where patients can independently monitor as well as manage their conditions.

Highlights

> Real-time Results

Measurements such as end-tidal carbon dioxide (EtCO2), respiratory rate (RR) and real-time capnogram were displayed within minutes.

> Portable and Lightweight

Designed to be easily managed and used, i-Breath aims to deliver mobility and convenience to the user.

> Non-Invasive

i-Sleep offers a painless and non-invasive method to monitor your sleep apnea severity level.

> User-Friendly

Accompanied with simple steps that will effortlessly provide results within seconds. i-Sleep also caters to a wide range of ages from children to adults. Refer to user manual

> Cost-Effective and Reliable

Assembled with quality components that are cost-efficient, i-Sleep aims to deliver a quality performance at an affordable price. i-Sleep is capable of producing smooth EtCO2 waveform that can improve diagnosis and enhance its result reliability

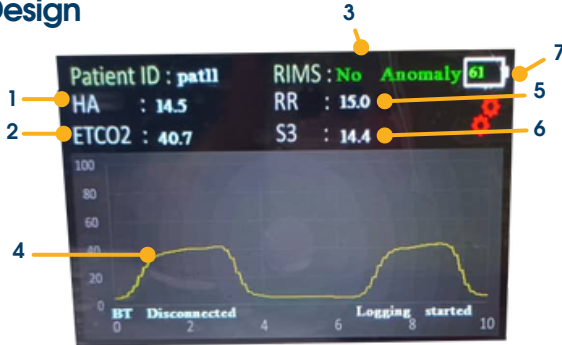
> Data Storage

i-Sleep offers 16GB* worth of storage for data recording and saving.

> PC Based Via USB

i-Sleep's data can be accessed through a computer via a USB connection. With the data (in .csv format), users are free to replot, print and etc.

Design



- | | |
|-----------------------------|-----------------------|
| 1. Hjorth Activity | 5. Respiratory Rate |
| 2. End-tidal Carbon Dioxide | 6. Slope 3 |
| 3. Health Status | 7. Battery Percentage |
| 4. Exhaled CO2 Waveform | |

Performance

Physical Characteristics

Dimensions w(140mm) xL(140mm)xH(89mm)
 Weight Approx. 430g

Sample Rate

50 ml/minute

Measurement range

CO2
 • 0 - 114 mmHg.
 • 0 - 15%.
 • 0 - 15.2 kPa

RR 2 - 120 breath/minute (BPM)

Accuracy

ET/CO2
 • 0 - 40 mmHg: ±2 mmHg
 • 40 - 114 mmHg: ±5% of reading

RR ±1 BPM

Environmental

Operating Temperature 0 - 40 degC
 Operating Humidity 10 - 90 % RH
 Storage Temperature -40 - 70 degC
 Storage Humidity < 90 % RH
 Pressure At sea level

Battery

Type Rechargeable Lithium ion internal Battery
 Battery Capacity 3400mAh
 Approx. 4 hours

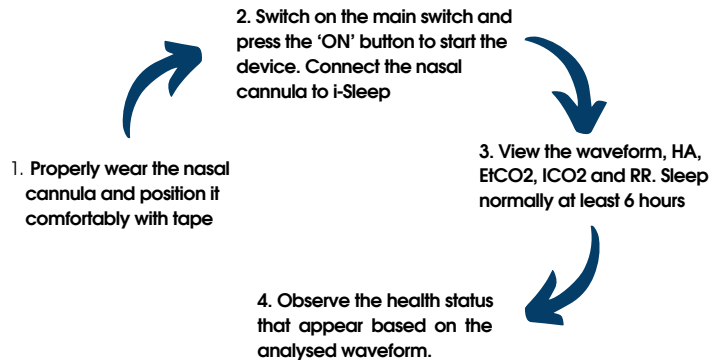
Power Data

Battery Charger AC 100V - 240V
 Output 5V 2A

Specifications are subject to change without notice

Instructions

i-Sleep can produce results with this simple steps. (Applicable to device that has been completely set up)



For more elaborate instructions, please refer the user manual

Accessories



Nasal CO2 Sampling Cannula



Charging Adapter



Micro-SD Card with Adapter

Reference Pictures



i-Sleep w/ Nasal Cannula



Front



Right Side



Left Side

Product Availability

i-Sleep is currently available only in Malaysia.

Product Pricing

RMXXX

Purchase includes:

1x i-Sleep

1x Charging Adapter

1x Nasal CO2 Sampling Cannula

1x Micro SD Card (16GB) with Adapter

Contact Information

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