Basic Component

All components

1. SmartPulz Software
2. SmartPulz Device   x15
3. Charging cable   x15
4. Wifi-Router   x1
5. Wifi Extender   x1
6. Instruction for use   x1

SmartPulz

SmartPulz is intended to be used in hospitals with non-critical health conditions in adult patient. The system measures and records heart rate, respiratory rate, posture of user, and skin temperature through the attachment of a small device attached at the upper chest to aid in monitoring of vital signals and posture. The collected data will be to the nurse and alert when the data is out of acceptable set range to prevent occurrence of pressure ulcer or undetected deteriorate in vital sign.

Classification:
Type of protection against electric shock -------------------II (Internally powered equipment)
Degree of protection against electric shock---------------Type B-applied part
Degree of protection against hazard of explosion-------Ordinary equipment: not protected
Equipment type---Monitoring system, Physiologic UMND:12636

Measurement specifications:

Heart rate declared accuracy

Range--50-250 bpm

Tolerance--10 bpm

Respiratory rate declared accuracy

Range--5-45 rpm

Tolerance--5 rpm

Skin temperature declared accuracy

Range--25-45 degree Celsius

Tolerance--1 degree Celsius

ห้างหุ้นส่วนจำกัด เมดิออท
MEDIOT
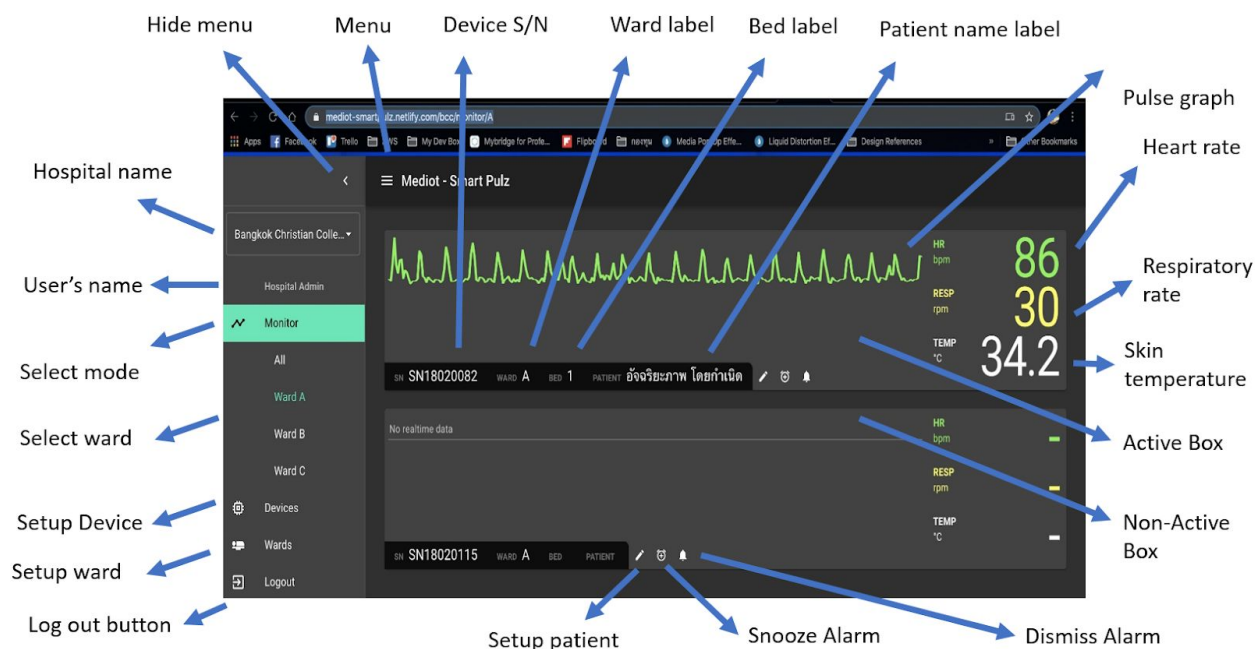MEDIOT LIMITED PARTNERSHIP

Technical specifications

1. SmartPulz Software

SmartPulz interface is a web-based application where a user can use a personal laptop, PC, tablet or smartphone to open the software. Users need to securely login to use the application to observe real-time vital signs of the patient, manage patient data.

User can find the software at https://app.mediot.care/

Overview

Hide menu   Menu   Device S/N   Ward label   Bed label   Patient name label

Hospital name
User's name
Select mode
Select ward
Setup Device
Setup ward
Log out button

Pulse graph
Heart rate
Respiratory rate
Skin temperature
Active Box
Non-Active Box

Bangkok Christian Colle...
Hospital Admin
Monitor
All
Ward A
Ward B
Ward C
Devices
Wards
Logout

≡ Mediot - Smart Pulz

HR bpm 86
RESP rpm 30
TEMP °C 34.2

SN SN18020082   WARD A   BED 1   PATIENT อัจฉริยะภาพ โดยกำเนิด

No realtime data
HR bpm
RESP rpm
TEMP °C

SN SN18020115   WARD A   BED   PATIENT

Setup patient   Snooze Alarm   Dismiss Alarm

Function (Web application)

● Monitor multiple patient in real time ● Display pulse graph for each patient ● Display heart rate, respiratory rate, temperature for each patient ● Identify by serial number, ward, bed, and patient's name	● Alarm setup window ● Alarm notification as condition set ● Convenient snooze or dismiss alarm ● Easy setup ward, device ● Easy login and logout

Installation Requirement

Chrome version 78 or above.

Warning: SmartPulz Software does not compatible with Internet Explorer

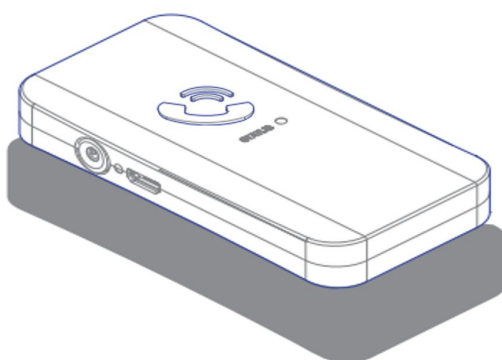*User and Data Management*

Please contact our authorized distributor to get username and password

How to use

Please follow the link *https://youtu.be/e5D1X4DQE2Y*

2. SmartPulz Device

SmartPulz have a small rectangular shape attached to the chest of the patient. It can measure respiratory rate, heart rate and body temperature and has a built-in Wi-fi module to deliver the data to central monitoring with SmartPulz software.

Product name	Smart Pulz
Model	CENEYE-01
Type	Multiparameter Patient Monitoring
Rated DC voltage of device	3.3V
Rated current of fuse	300 mA
Rated voltage of fuse	63 VDC
Storage Temperature	Between -25 Celsius and 70 Celsius
Operating Temperature	Between 0 Celsius and 45 Celsius

Operating Relative Humidity	30% - 70%
Operating Atmospheric Pressure	70 kPa -106 kPa
Water and Dust protection	IP43
Produced	2019
Design by	Brain Dynamic Technology Co., Ltd. 88/76 Soi 2 China Center Village Kullapapruk Rd. Bangkae, Bangkae, Bangkok, 10160, Thailand
Product of	Mediot Limited Partnership 38/92 Buddamonthon 1 Bangcherknung, Talingchan, Bangkok, 10170, Thailand

Accelerometer Settings

Number of axis	3
Measurement range	± 2 g
Sensitivity	0.00006 g/digit
Internal sampling frequency	400 Hz
Resolution	16 bits

Temperature Sensor setting

Measurement range	–20°C to +50°C
Accuracy	±0.1°C
Resolution	0.0078 °C
Sampling frequency	1 Hz

Technical specifications

Wi-Fi®

Operating frequency band	2.4 GHz
Wi-Fi® Modes	802.11b/g/n station 802.11b/g/n Access Point
Update interval	15 second
DTIM (set at router)	1

Power supply

Power by	Rechargeable battery
Battery type	LiPo
Energy storage amount	500 mAh
Charger connector type	Micro USB
Usage time	72 hours
Rated DC voltage and current (charge cable input)	5 V , 0.5 A
Rated DC voltage and current (charging battery input)	3.7 V - 4.2 V , 250 mA
Rated DC voltage (battery output)	3.3 V