

VitalCARE

VitalCARE is a non-contact sensor which measures heart rate, respiration rate, of a person. It analyzes micro movements and transmits the result over WiFi network. The device uses UWB technology and advanced DSP to accurately detect human vital signs without any physical contact. It is highly suitable for long duration uninterrupted monitoring. The VitalCARE device has built-in power supply and WIFI communication.



Unique Features

- Non-contact. Detection at a distance.
- No wearing of sensors, wearables, no discomfort.
- Long duration, uninterrupted monitoring: 8hours sleep, 365 days
- See through clothing, blankets, non-metallic materials
- Measurements transmitted via WIFI to application servers or cloud services;
- Programmable sensitivity
- All in one solution, easy to install
- Long duration, uninterrupted detection



Heart Rate



Respiration



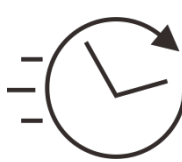
Target Distance



24/7 Detection



High precision



Highly sensitive



Built-in WiFi



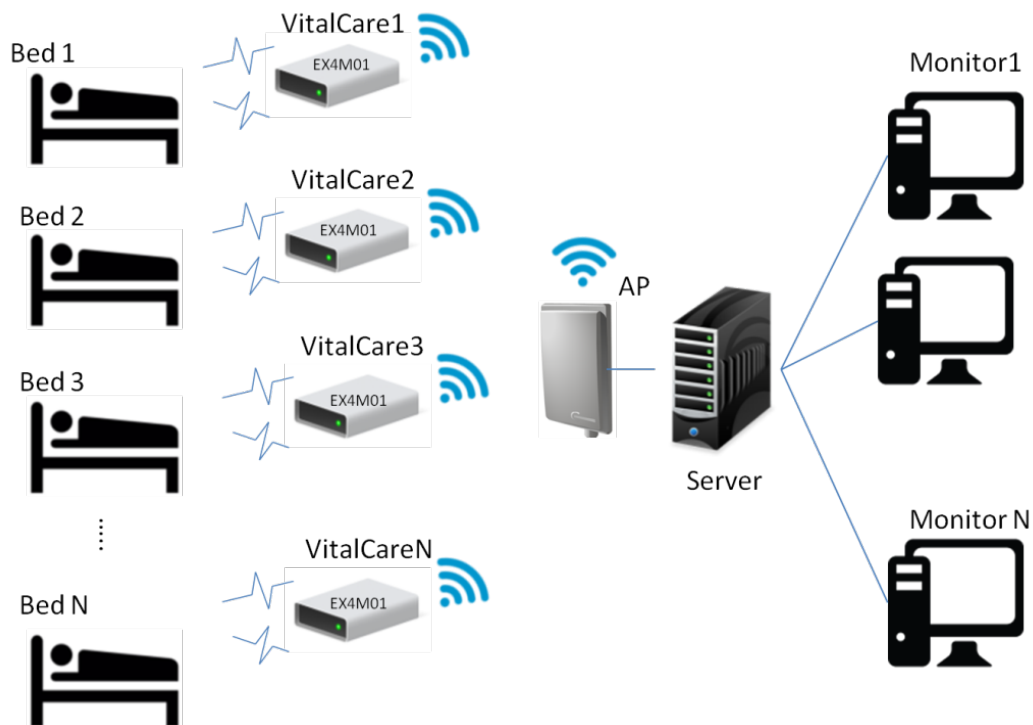
5VDC



Easy Install

Typical applications:

- Senior home / hospital care and monitoring: heart rate, respiration rate, in bed, out of bed, fall
- Productivity improvement: improve quality of rest, improve response time,
- Baby monitoring: heart rate, respiration rate, in bed, out of bed, fall
- Sleep Quality monitoring and analysis: Time in bed, out of bed. Movement states and sleep stages
- Remote health monitoring applications: Big data analysis, long duration, uninterrupted health status monitoring



Application suitable for senior homes management

Major technical specifications:

- Respiration Rate: 8-60 /Minute;
- Heart Rate: 40-150 / Minute;
- Detection Range: 1-3m recommended;
- Different states reported: No Presence, Presence, Presence Calm, Presence with minor movement, Presence with vigorous movement
- Date refresh : 1 s;
- No presence to presence: 1s
- Presence to no presence: 10s;
- Power dissipation: 1.1W
- Radiation: -14dbm, 0.1% of standard 4G cell phone ;
- Ordering Part Number: EX4M02-S

FCC Caution.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.