Solution Specification

T60
Over-bed Vitals Sensor

- RF Frequency Range:
  Radar Sensing: 60GHz, WiFi: 2.4/5GHz
- Heart Rate Range /Accuracy:
  50~120 bpm, ±5%
- Breath Rate Range/ Accuracy:
  6~25 time/min, ±2 RPM
- Body Temperature Range/Accuracy:
  36°C~37.5°C, ±0.5°C
- Detection Range: 0.7~1.4 meter
- TFDA Class II Medical Device Certified

HID-2340
23.8" Medical Panel PC

- 12th Generation Intel® Core™
  i7/i5/i3/Celeron Processor
- 23.8" Full HD 1920 x 1080 Display
  with PCAP Multi-touch
- 5-kv isolation USB/ COM/ LAN
  ports by IET module
- Optional webcam/ WIFI/ NFC/
  barcode scanner

HID-1540
15.6" Medical Panel PC

- 12th Generation Intel® Alder
  Lake-PS Core-i Processor
- 15.6" Full HD 1920 x 1080 Display
  with PCAP Multi-touch
- Tri-color Corner LED Light
  Indicator
- Medical UL Certified

MAB-T600/ MAB-T660
**Medical Certification Ready
Expandable Box System**

- Medical Certification (UL-60601-1)
- 12/13th Generation Intel® Core™
  i3/i5/i7 Processors
- Intel® H610E Chipset

Target Clinical Departments

General Inpatient Ward

Dialysis Ward

Quarantine Room

Recovery Ward

**Sleep Center/
Emergency Room**

Palliative Care Ward

SmartCaring T60
Improve patient care and safety with over bed sensors

**Higher Safety
Better Care
Lower Cost**

**Reduce Workload
Prioritize on Urgency
Efficiently Respond**

**Reduce night "check-in"
Personalize Care
Quality of Hospitalized**

Improve patient care and safety with over bed sensors

Leveraging the SmartCaring T60 vitals sensor, Avalue's high-performance medical AI BOX, and a 15" Medical Panel PC with an LED light bar, this healthcare ecosystem ensures immediate emergency response. It combines digital monitoring twins with edge AI for detecting respiratory diseases like COPD, Pneumonia, Sleep Apnea, and low BP. By prioritizing patient comfort, this contactless, continuous, and privacy-protected vital sign monitoring system reduces infection risks and streamlines early deterioration detection without adding staff burden.

Reduce Staff Burden - Get timely, accurate heart rate, respiratory rate and temperature data without time-consuming manual assessments. Contactless and Autonomous
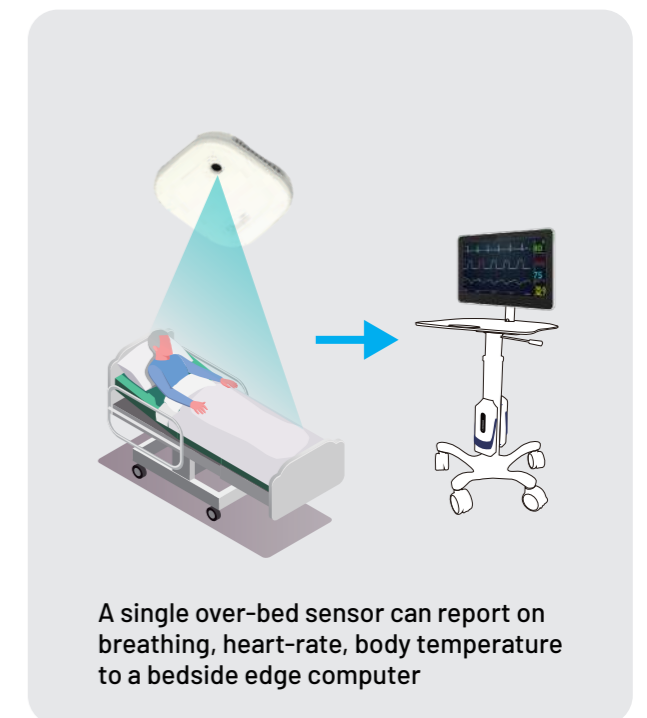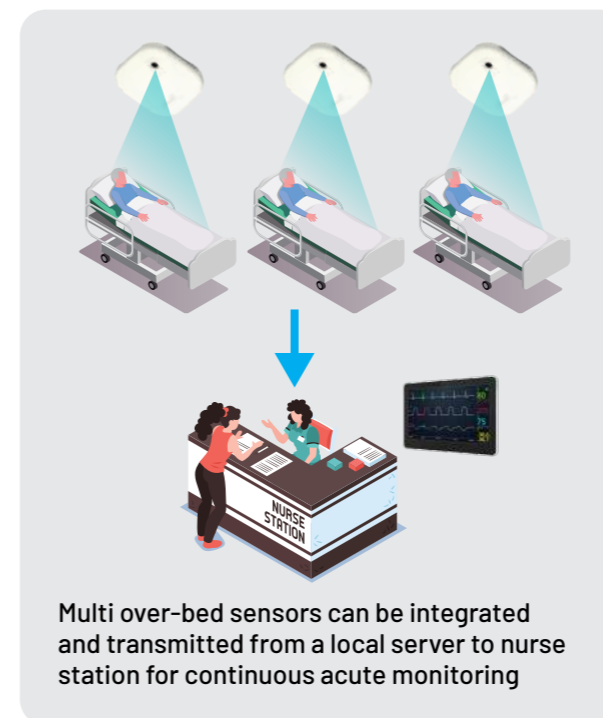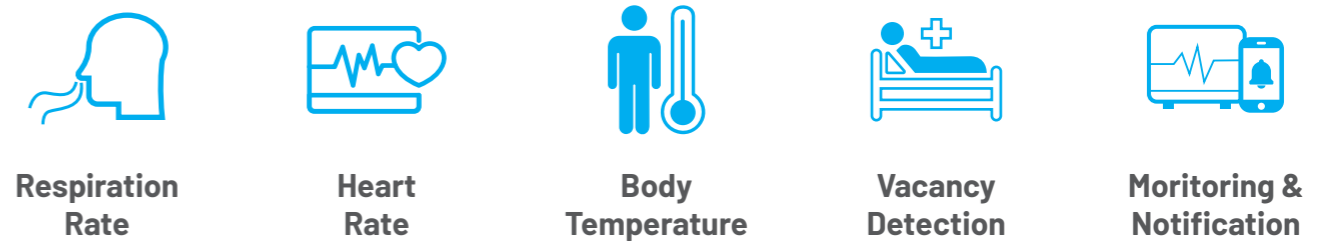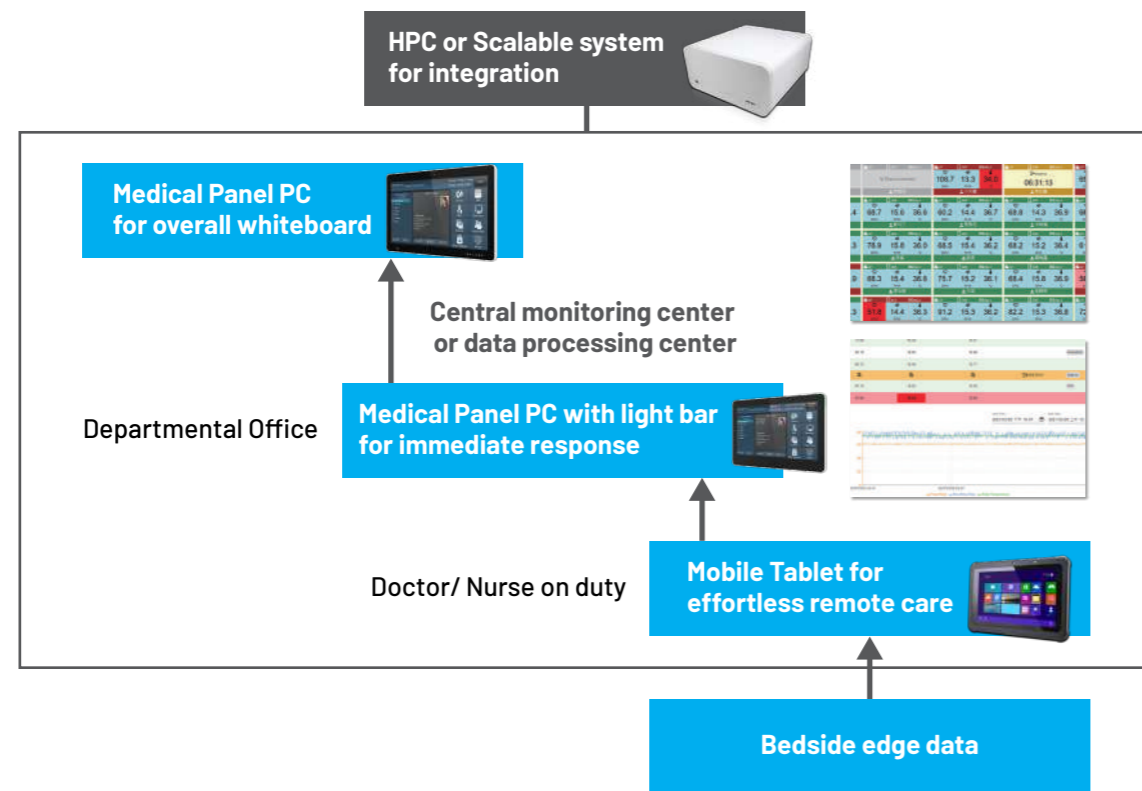
Early Detection of Deterioration – Vital signs like heart and respiratory rate can help predict serious health events 6-8 hours before they occur. 24X7 Continuous Vitals Monitoring

Comprehensive Hardware Product Lineup
- Scalability and customizations
- Flexible Implementation
- Market Differentiation and Competitive edge

Ward on Site
- Non-Intrusive Vital Sign
- Improved Patient Comfort and Convenience
- Real-Time Data for Informed Medical Decisions

HPC or Scalable system for integration

Medical Panel PC for overall whiteboard

Central monitoring center or data processing center

Departmental Office

Medical Panel PC with light bar for immediate response

Doctor/ Nurse on duty

Mobile Tablet for effortless remote care

Bedside edge data

Respiration Rate

Heart Rate

Body Temperature

Vacancy Detection

Moritoring & Notification

Multi over-bed sensors can be integrated and transmitted from a local server to nurse station for continuous acute monitoring

A single over-bed sensor can report on breathing, heart-rate, body temperature to a bedside edge computer

- **Facilitates seamless communication between the sensors and the AI system**
- **Utilizes artificial intelligence to analyze data and detect patterns associated with respiratory diseases**
- **Market differentiation and competitive edge combination**