

iHealthcare

# Intelligent Ward Management System for Hospitals

## Transforming Nursing Care with Digital Wards

Solution Suite

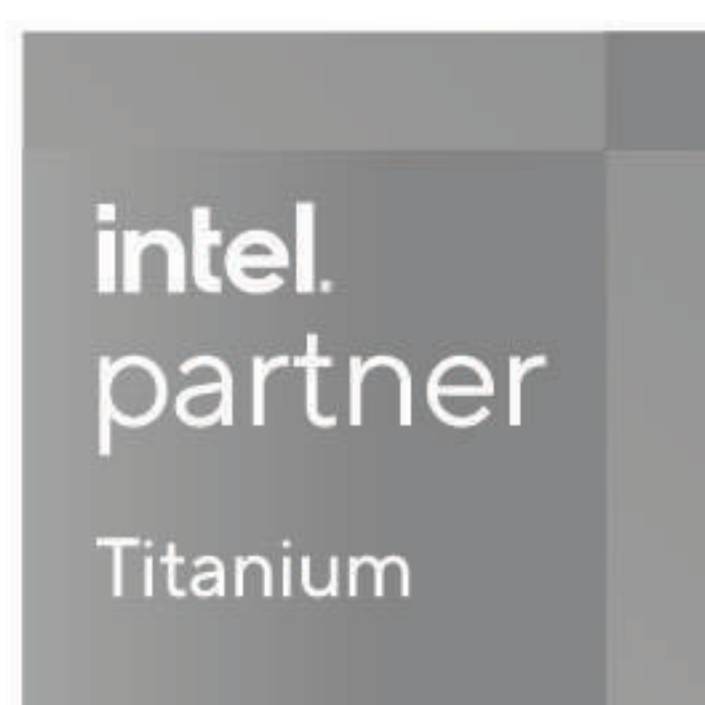
iWard-71A.Suite  
iWard-72A.Suite  
iWard-73A.Suite



- Nursing Control Stations enable patient data to be integrated with HIS/NIS records and enhance nursing care.
- Bedside Information Terminals streamline workflows by optimizing hospital processes.

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Introduction Video

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**ADVANTECH**  
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# Introduction

Advantech's iWard solution is an innovative solution-ready package that supports cloud-based services, microservice architecture, statistical expansion, and AI applications and can be rapidly deployed to enable the realization of intelligent wards. Intelligent wards allow patient needs to be rapidly communicated to nursing staff, facilitating the delivery of quality nursing care that improves treatment outcomes and patient satisfaction.

## iWard Solution Features



Rapid installation



Scalable integration



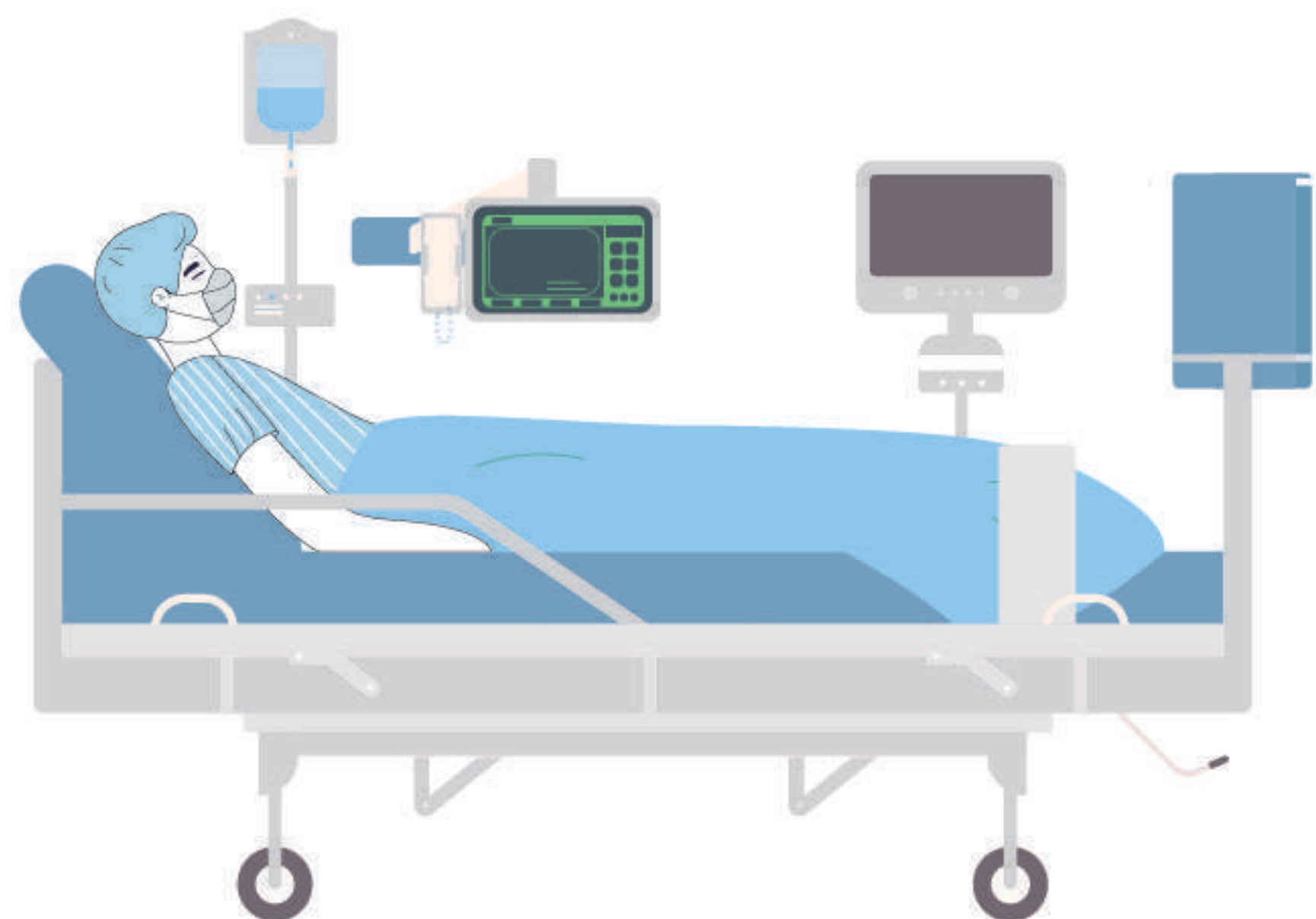
Flexible customization



Modularized expansion

## Specialized Functions Improve Patient Care

### Hospital Admission

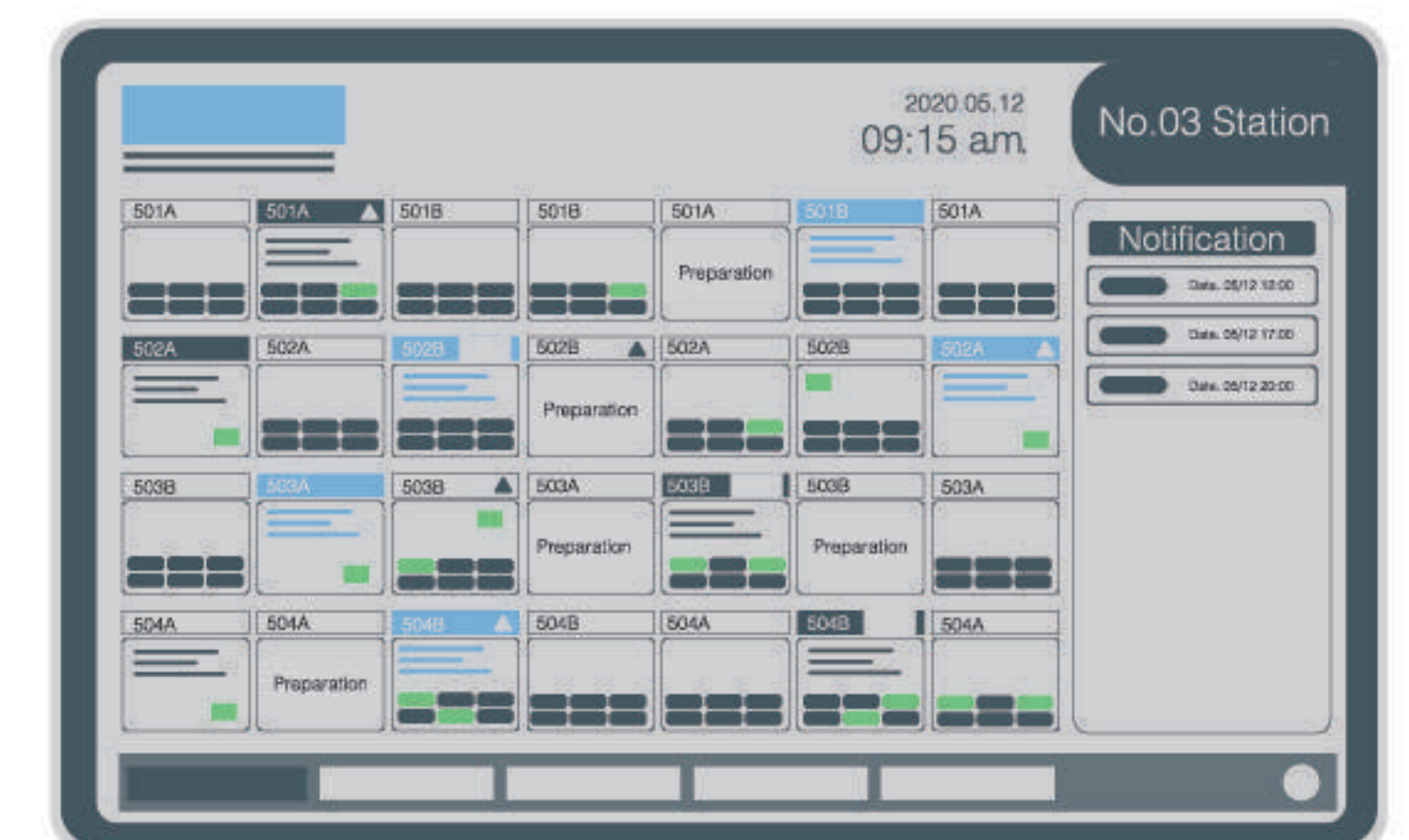


Nursing Control Stations enable staff to add or update patient data and bed information.

### Nursing Station



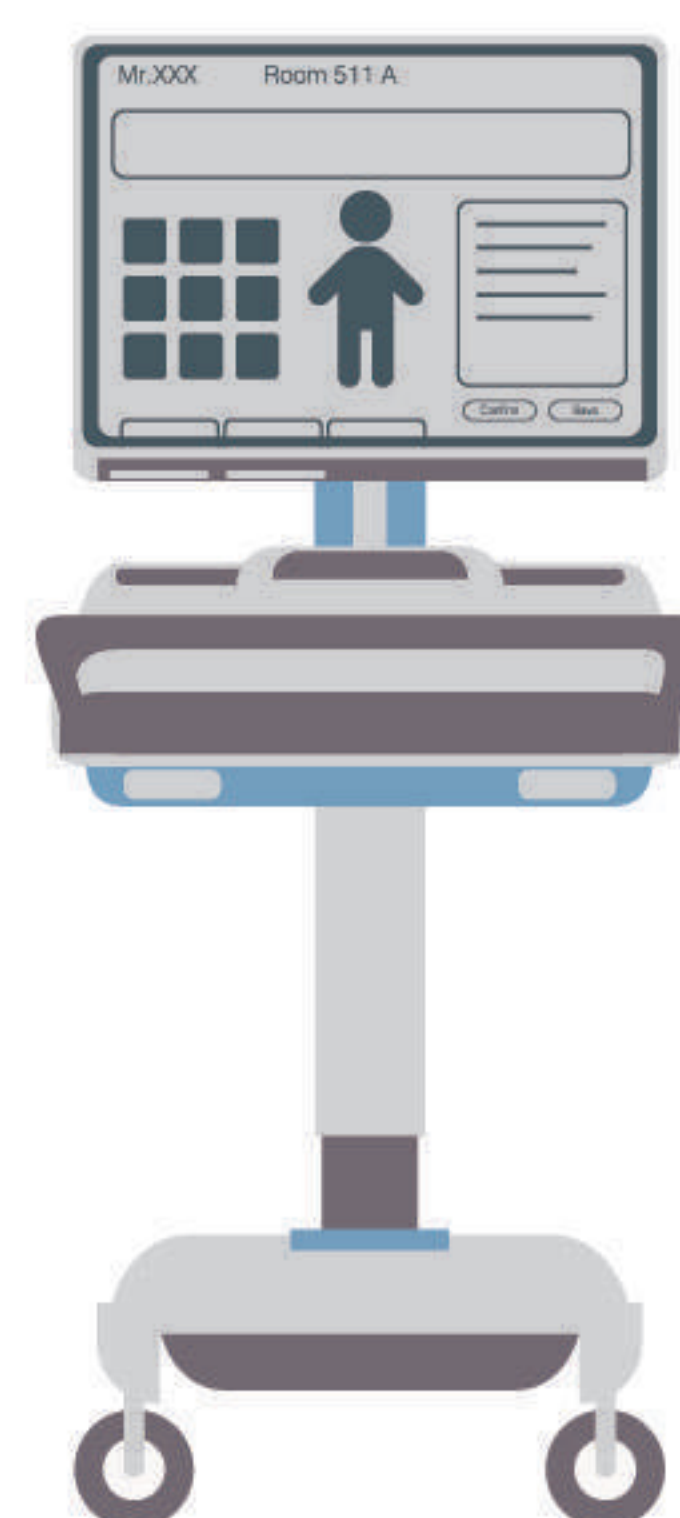
Nursing Dashboard provide patient information and allow nurses to receive patient requests from Bedside Information Terminal.



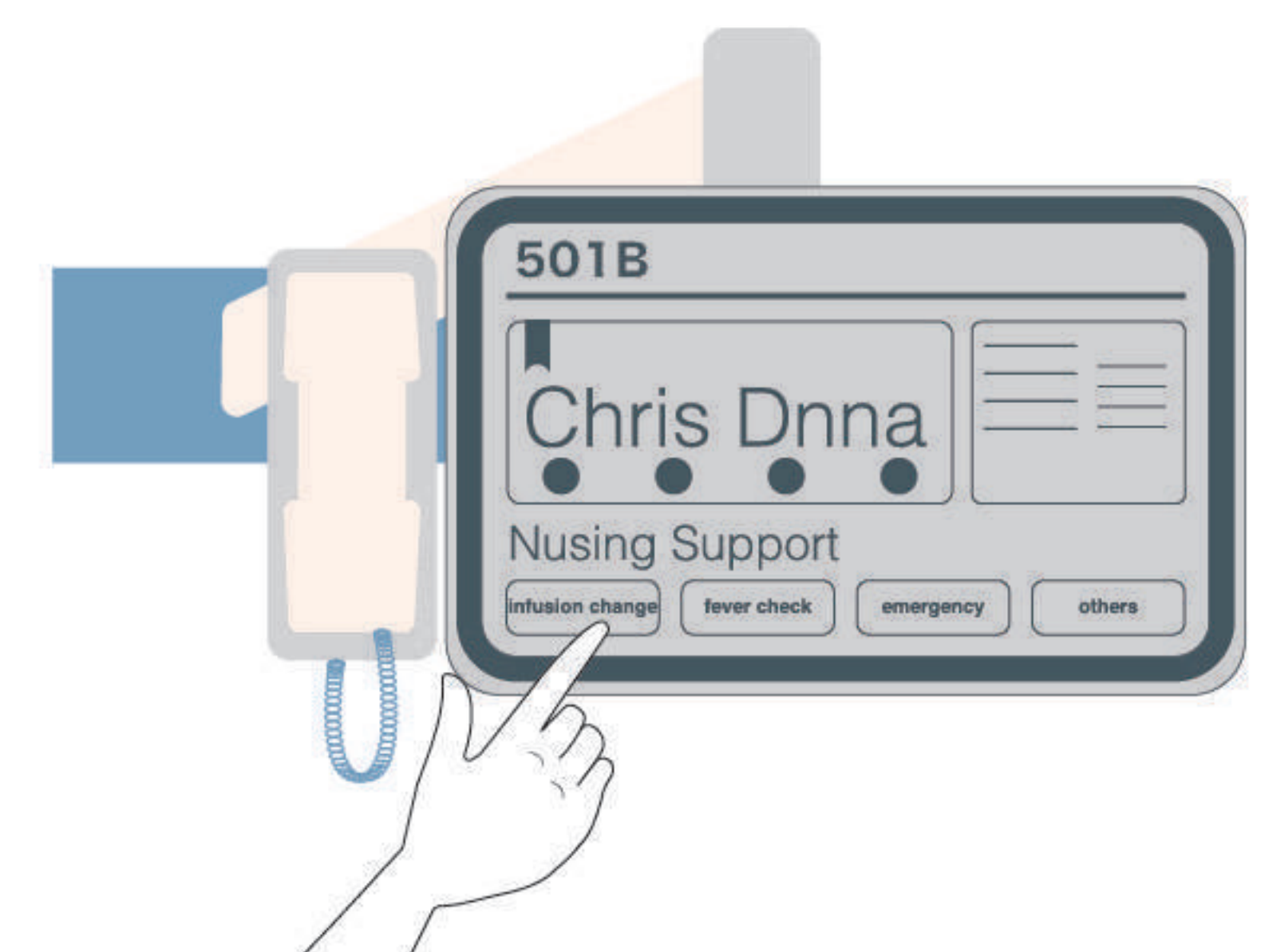
### Patient Discharge



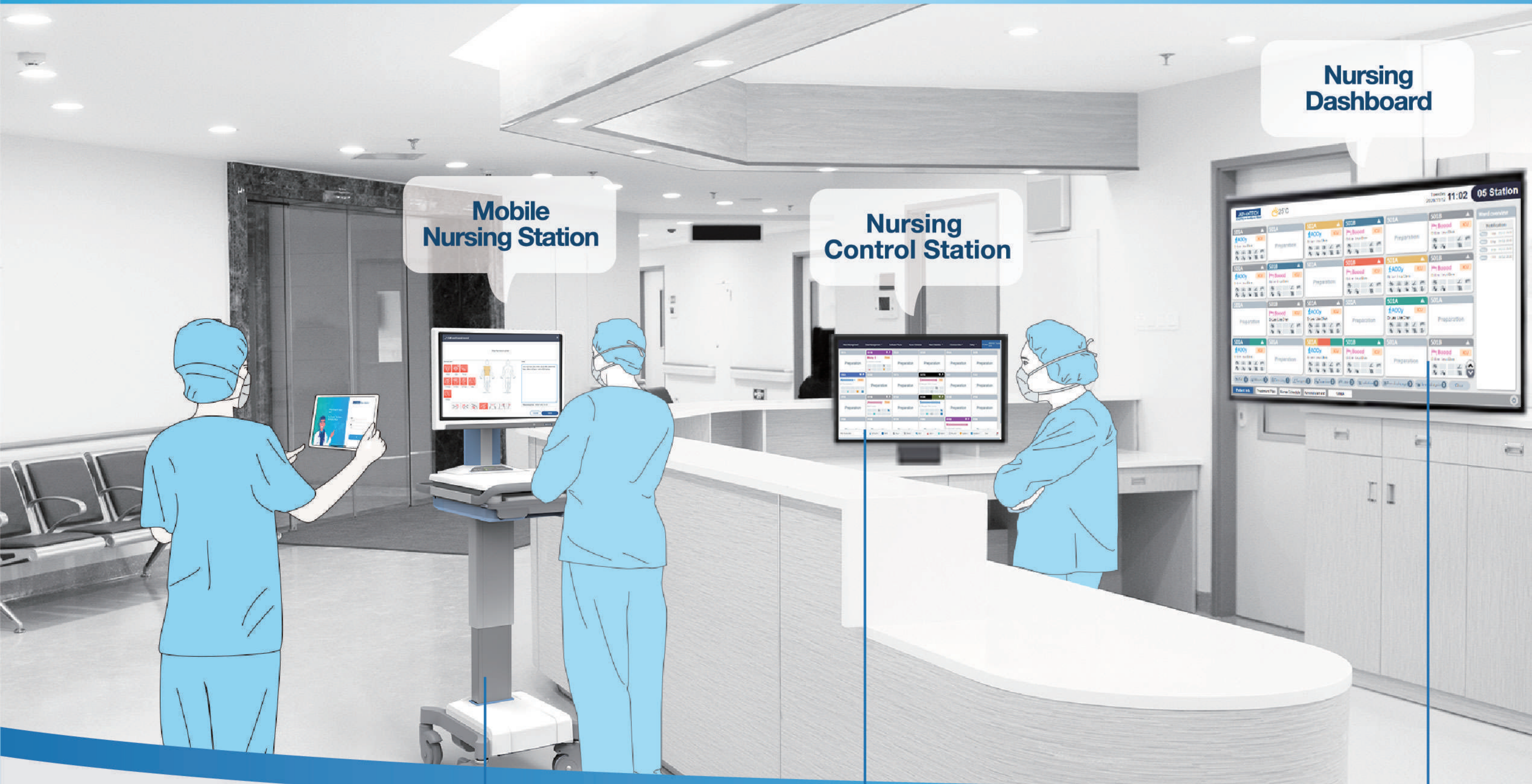
Mobile Nursing Stations allow patients' vital sign data and medical records to be conveniently updated and managed for efficient in-ward nursing care.



Patients can use Bedside Information Terminals to request assistance. Nurses can access the patient request notification list via the Nursing Dashboard.



# iWard Basic



Mobile Nursing Station

Nursing Control Station

Nursing Dashboard

## Ward Management

## Admission Information Setting

## Ward Rounds Record

## User-Definable Parameters and Remarks

# iWard Bedside

Bedside Information Terminal

Patient Information Terminal

Bedside ePaper Display



## Ward/Bed Assignment Information

Room	Assignment	Status
501A	Anna Broms	Preparation
501B	Mr. Blood	ICU
501A	Mr. Blood	ICU
501B	Mr. Blood	ICU
501A	Mr. Blood	ICU
501B	Mr. Blood	ICU
501A	Mr. Blood	ICU
501B	Mr. Blood	ICU
501A	Mr. Blood	ICU
501B	Mr. Blood	ICU

## Patient Information

**501A** Doctor : Dr Root 2020/10/09  
Nurse : Alda 21:18

**Anna Broms**

Admission Num. : C124294  
Admission Date : 2020/10/09  
Birthday : 1992/08/01  
Language : English

Notification :  
Drip replacement, Cleaning, Wheelchair rental, Wound care, Call nurse

Satisfaction survey, Treatment plan, Medication Information, Vital Signs

## Nursing Shift Information

Nurse	Room	Status
Sally Lucas	501A, 501A, 501A, 501A, 501A	Extinguishing
Andrew	501A, 501A, 501A, 501A	Extinguishing
Elisa	501A, 501A, 501A, 501A	Extinguishing
Dell	501A, 501A, 501A, 501A	Fire fighting
ChenNi	501A, 501A, 501A, 501A, 501A	Extinguishing
Hosa	501A, 501A, 501A, 501A	Fire fighting
David	501A, 501A, 501A, 501A	Fire fighting
Liya.Lo	501A, 501A, 501A, 501A	Fire fighting

## Patient Requests

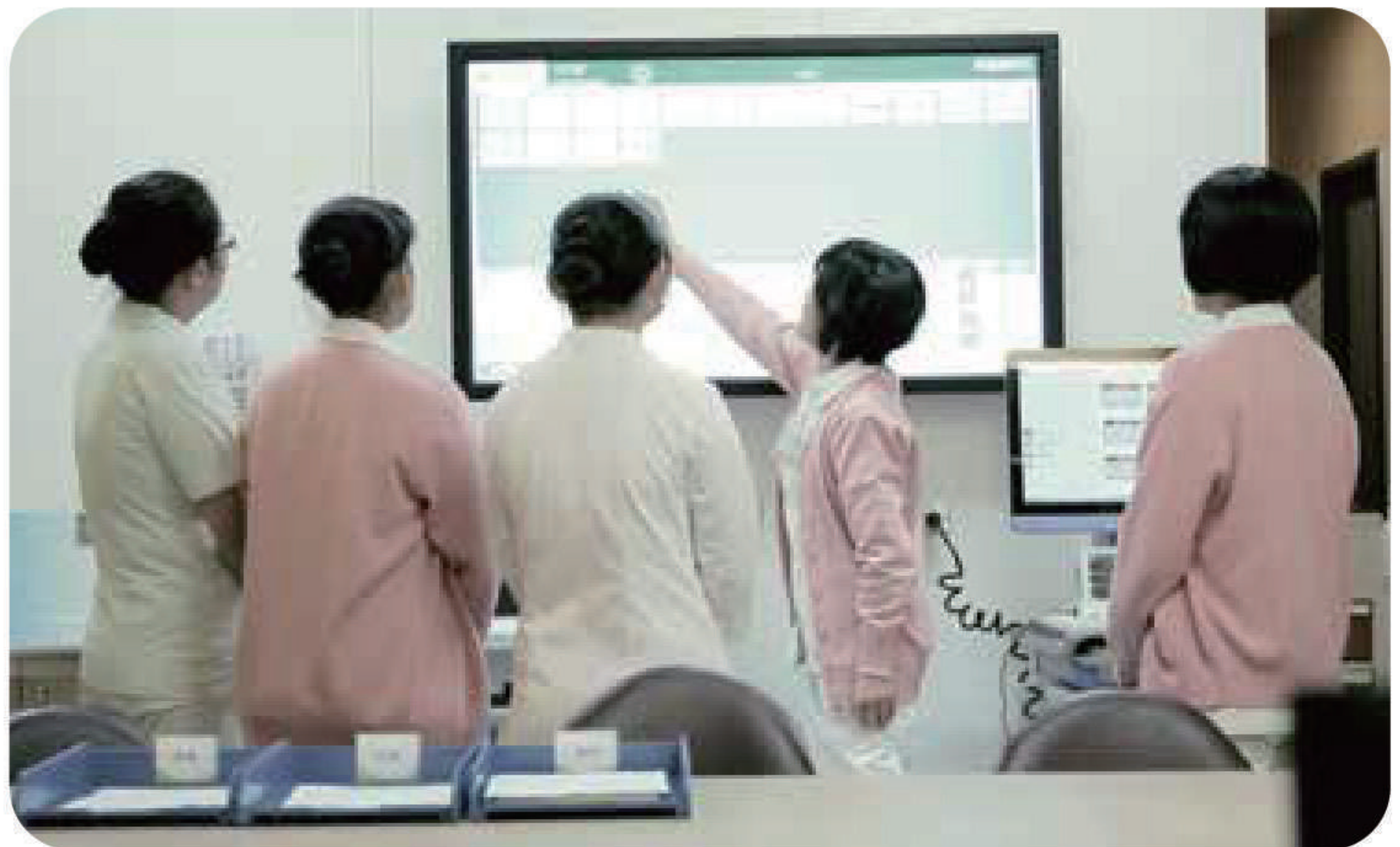
Wound Dressing, Cleaning, Ordering Meal, Out-of-Bed Assistance, Assistive Device

Are you sure you want to send "drip replacement"?  
Cancel, Confirm

# Application Story

## Yuanlin Christian Hospital - A Benchmark for Intelligent Hospitals

Yuanlin Christian Hospital (YCH) is a new medical institution that is affiliated with the Changhua Christian Hospital and holds a significant place in the history of medicine in Taiwan. Specifically, YCH was the first hospital to realize intelligent patient services, medical procedures, and energy management. The hospital not only provides all the convenience and functionality of a modern healthcare facility, but also marks Taiwan's transition into an era of fully intelligent medicine.



### Intelligent ward bring patients and nurses closer together

Traditional wards typically feature nurse call buttons or phones for patients to communicate with nurses. However, these buttons/phones do not offer instant notifications, which can lead to long wait times and patient mistrust of nursing staff. By contrast, YCH wards have been fitted with bedside information terminals that feature touch-controlled nurse call buttons for contacting nurses with a single touch. The electronic messaging system then notifies all on-call nurses, regardless of their location, of the request for assistance via an instant message sent to their hand-held device (mobile phone or tablet PC). Patients wishing to order a meal or adjust their medication no longer have to make in-person requests at the nurses station. With a simple touch of their nurse call button, they can send a message to the nurses' station. The electronic messaging system also reduces the risk of errors or forgotten requests.

## Intelligent Hospital Architecture



# Ordering Information

## Basic Suite iWard-71A.Suite



## Interactive Suite iWard-72A.Suite



## ePaper Suite iWard-73A.Suite



**Nursing Dashboard**

Nursing Dashboard	Part Number	Specifications	Medical grade	Size
DS-081	DS-081HWDW-S1E-C	DS-081, Intel® Celeron® 3965U, 4 GB RAM, 64 GB SSD, Windows 10, nursing dashboard client	N	X
DS-780	DS-780HWDW-S1E-C	DS-780 i7, 8 GB RAM, 500 GB HDD, Windows 10 IoT, iWard nursing dashboard client software	N	X



**Mobile Nursing Station**

Mobile Nursing Station	Part Number	Specifications	Medical grade	Size
AMIS-50E	AMIS-50EHWCW-S1E-C	AMIS-50E, Intel® Core™i5 7300U, 4GB RAM, 128 GB SSD, Windows 10 IoT, IPS battery(IPS-M420S) iWard control center client software	Y	X



**Bedside Information Terminal**

Bedside Information Terminal	Part Number	Specifications	Medical grade	Size
HIT-W512, RFID	HIT-W512HWBA-S1E-C	11.6" widescreen display, Intel® Celeron® J3455, PCAP touch, 4 GB RAM, 64 GB SSD, camera, RFID, Wi-Fi, Bluetooth, medical-grade adapter, Android 8.1, iWard BIT client software	N	11.6"
HIT-W512	HIT-W512HWBA-S2E-C	11.6" widescreen display, Intel® Celeron® J3455, PCAP touch, 4 GB RAM, 64 GB SSD, Wi-Fi, Bluetooth, medical-grade adapter, Android 8.1, iWard BIT client software	N	11.6"
HIT-W101, RFID	HIT-W101HWBA-S2E-C	10.1" TFT display (1280 x 800), PCAP multi-touch, ITE adapter, RFID, 2 GB RAM, Android 5.1, iWard BIT client software	Y	10.1"



**Patient Information Terminal**

Patient Information Terminal	Part Number	Specifications	Medical grade	Size
HIT-W183, RFID	HIT-W183HWPW-S1E-C	18.5" display, PCAP touch, 4 GB memory, 64 GB storage, camera, Wi-Fi, Bluetooth, RFID, smart card reader, Windows 10, iWard PIT client SW	Y	18.5"
HIT-W183, RFID, TV	HIT-W183HWPW-S2E-C	18.5" display, PCAP touch, 4 GB memory, 64 GB storage, camera, Wi-Fi, Bluetooth, RFID, smart card reader, digital TV, Windows 10, iWard PIT client SW	Y	18.5"
HIT-W153, RFID	HIT-W153HWPW-S1E-C	15.6" display, PCAP touch, 4 GB memory, 64 GB storage, camera, Wi-Fi, Bluetooth, RFID, smart card reader, Windows 10, iWard PIT client SW	Y	15.6"

### Edge Cloud

#### Edge-Cloud Solution Suite

**WISE-STACK Edge100**  
Hardware: SKY-7221, 10 cores, 64 GB memory, 16 TB HDD, 1 TB SSD  
Software: WISE-PaaS/IoTSuite E100



#### WISE-PaaS/IoTSuite



Training Video



Product Literature

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