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.

ADVANTECH
Enabling an Intelligent Planet

intel partner
Titanium

Introduction Video

POWERED BY
WISE PaaS
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.

### 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.

Nursing Dashboard provides patient information and allows nurses to receive patient requests from Bedside Information Terminal.
iWard Bedside

Bedside Information Terminal

Patient Information Terminal

Bedside ePaper Display

Ward/Bed Assignment Information

Patient Information

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

Notification:

Satisfaction survey Treatment plan Medication Information Vital Signs

Nursing Shift Information

Patient Requests

Are you going to need any assistance?
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**

**Nursing Dashboard**
- DS-O81
- DS-780

**Specifications**
- DS-O81: Intel® Celeron® J3455, 4 GB RAM, 64 GB SSD, Windows 10, nursing dashboard client
- DS-780: J7, 8 GB RAM, 500 GB HDD, Windows 10 IoT, iWard nursing dashboard client software

## Interactive Suite
**iWard-72A.Suite**

**Nursing Dashboard**

**Specifications**

## ePaper Suite
**iWard-73A.Suite**

**Nursing Dashboard**

**Specifications**

<table>
<thead>
<tr>
<th>Nursing Dashboard</th>
<th>Part Number</th>
<th>Specifications</th>
<th>Medical grade</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS-O81</td>
<td>DS-O81HWDW-S1E-C</td>
<td>DS-O81, Intel® Celeron® J3455, 4 GB RAM, 64 GB SSD, Windows 10, nursing dashboard client</td>
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<td>DS-780</td>
<td>DS-780HWDW-S1E-C</td>
<td>DS-780 J7, 8 GB RAM, 500 GB HDD, Windows 10 IoT, iWard nursing dashboard client software</td>
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<table>
<thead>
<tr>
<th>Mobile Nursing Station</th>
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<th>Specifications</th>
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<th>Size</th>
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<tr>
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<td>AMIS-50E+HWCW-S1E-C</td>
<td>AMIS-50E, Intel® Core™ i5 7300U, 4GB RAM, 128 GB SSD, Windows 10 IoT, iWard control center client software</td>
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</table>

<table>
<thead>
<tr>
<th>Bedside Information Terminal</th>
<th>Part Number</th>
<th>Specifications</th>
<th>Medical grade</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>HIT-W512, RFID</td>
<td>HIT-W512HWA-S1E-C</td>
<td>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</td>
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<tr>
<td>HIT-W512</td>
<td>HIT-W512HWA-S1E-C</td>
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<td>HIT-W101, RFID</td>
<td>HIT-W101HWA-S1E-C</td>
<td>10.1” TFT display (1280 x 800), PCAP multi-touch, ITE adapter, RFID, 2 GB RAM, Android 5.1, iWard BIT client software</td>
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<table>
<thead>
<tr>
<th>Patient Information Terminal</th>
<th>Part Number</th>
<th>Specifications</th>
<th>Medical grade</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIT-W183, RFID</td>
<td>HIT-W183HWPW-S1E-C</td>
<td>18.5” display, PCAP touch, 4 GB memory, 64 GB storage, camera, Wi-Fi, Bluetooth, RFID, smart card reader, digital TV, Windows 10, iWard BIT client SW</td>
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<td>HIT-W183, RFID, TV</td>
<td>HIT-W183HWPW-S2E-C</td>
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<td>HIT-W153, RFID</td>
<td>HIT-W153HWPW-S1E-C</td>
<td>15.6” display, PCAP touch, 4 GB memory, 64 GB storage, camera, Wi-Fi, Bluetooth, RFID, smart card reader, Windows 10, iWard BIT client SW</td>
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**Edge Cloud**

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

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