

iWard SRP

Optimizing Nursing Care and the Patient Experience

Solution
Ready
Package

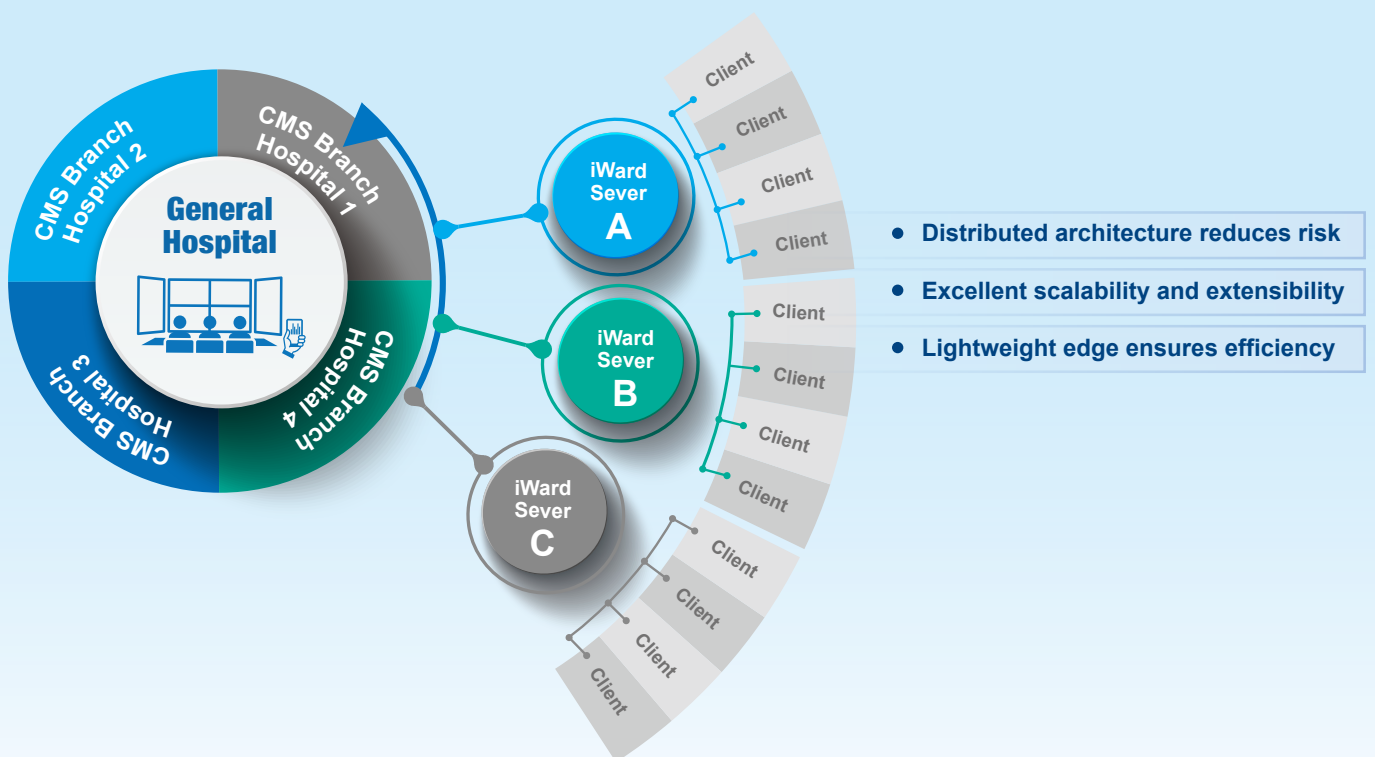


iWard Architecture

Advantech's iWard solution is innovative and ground breaking. The solution offers cloud solutions, microservices, statistical expansion, and AI applications, and has been implemented for multiple applications. Currently, Advantech is further productizing and standardizing the software and hardware integration to enable rapid deployment and management in diverse facilities while also increasing the value and efficiency of the healthcare experience.



iWard Division Architecture



iWard



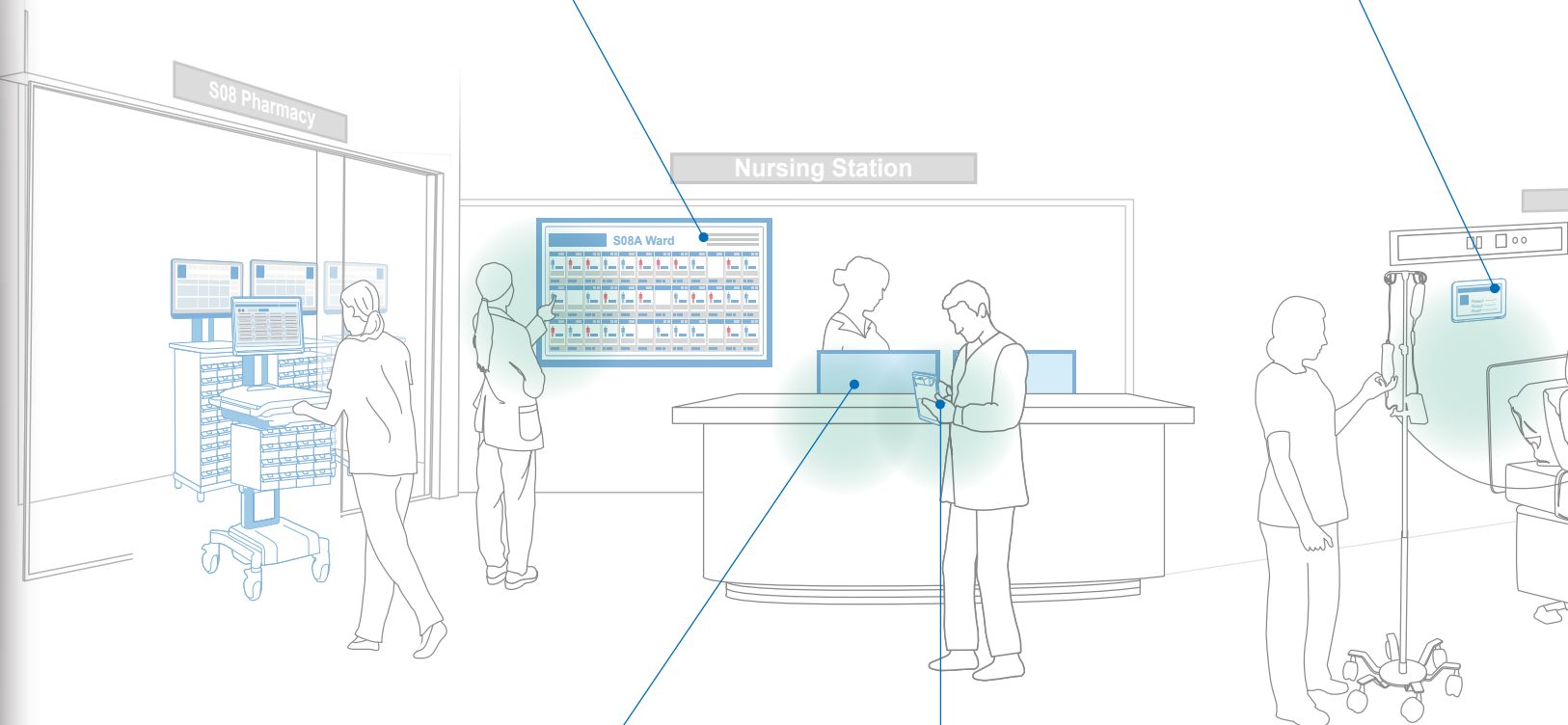
- Enables real-time bed occupancy management
- Provides an overview of patient medical records and notes
- Notifies staff of patient requests and device abnormalities
- Allow access to staff shift schedules
- Can serve as a bulletin board and provide contact information

Nursing Station Dashboard



- Displays real-time
- Enables direct re
- Sends requests t
- Features staff sig

Bedside Information Terminal



- Provides a complete nurses' station overview
- Collates information of all patients/beds across nurses' stations
- Enables access to system management rights

Nursing Station Terminal



- Notifies staff of patient needs immediately
- Enables real-time communication with patients/nurses' station

Nursing Mobile App



Patient Information Terminal

e patient data
 requests for nursing assistance
 o responsible healthcare staff
 n-in verification mechanisms



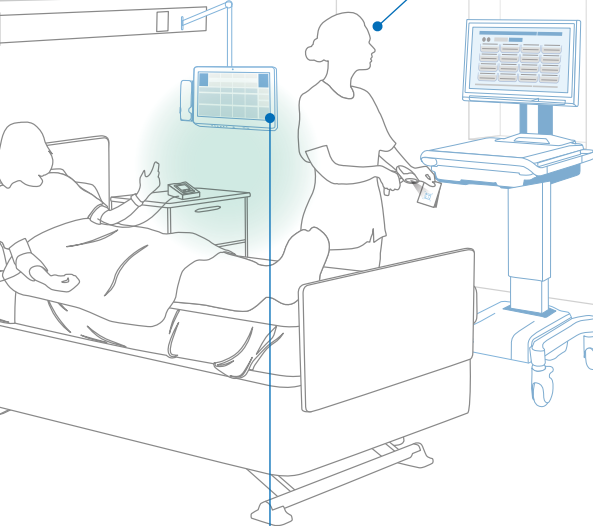
Real-Time Location System



Centralized Dashboard System

- Provides an overview of all nursing station dashboards
- Enables real-time bed occupancy and patient management
- Displays statistical reports, historical records, and ward performance audit results

Ward

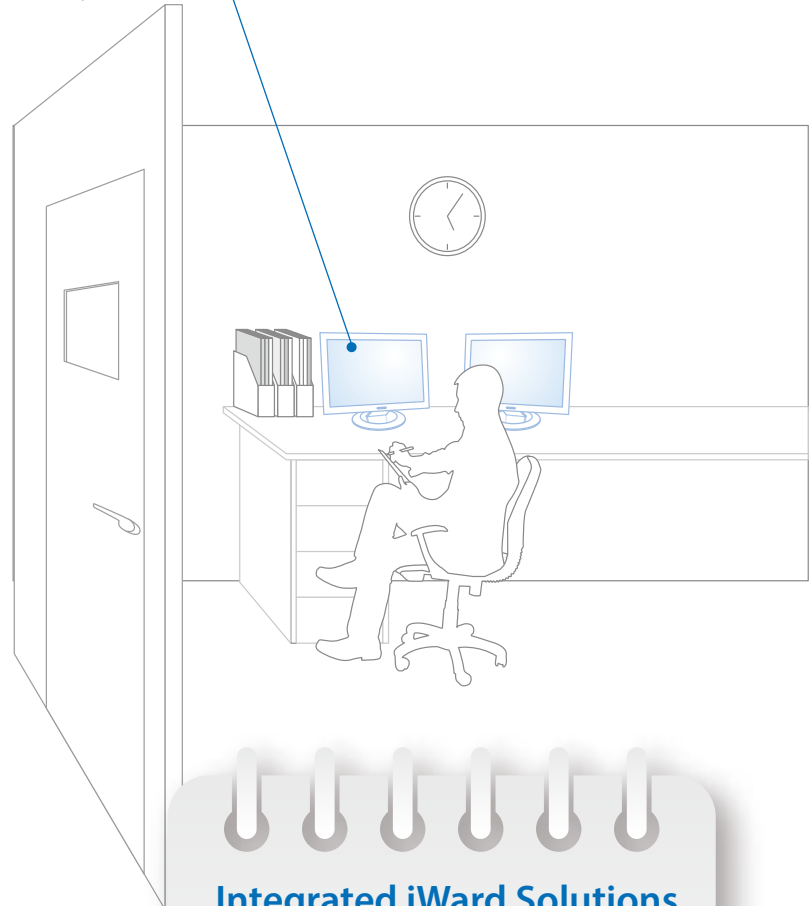


- Displays patient information and medication usage instructions
- Integrates vital sign measurements
- Enables real-time communication and notification of patient needs

nformation
 minal



Vital Sign Measurement



Integrated iWard Solutions



- Increase safety with facial recognition capabilities
- Automatic reminders to change transfusions



- Remote monitoring of intravenous infusions



- Real-time patient tracking
- Real-time apparatus tracking
- Regional alarm detection



- Voice recognition AI can monitor vital signs and send alarm notifications
- Instant report/notifications of detected abnormalities

Application Story

Yuanlin Christian Hospital - A Benchmark for Intelligent Hospitals

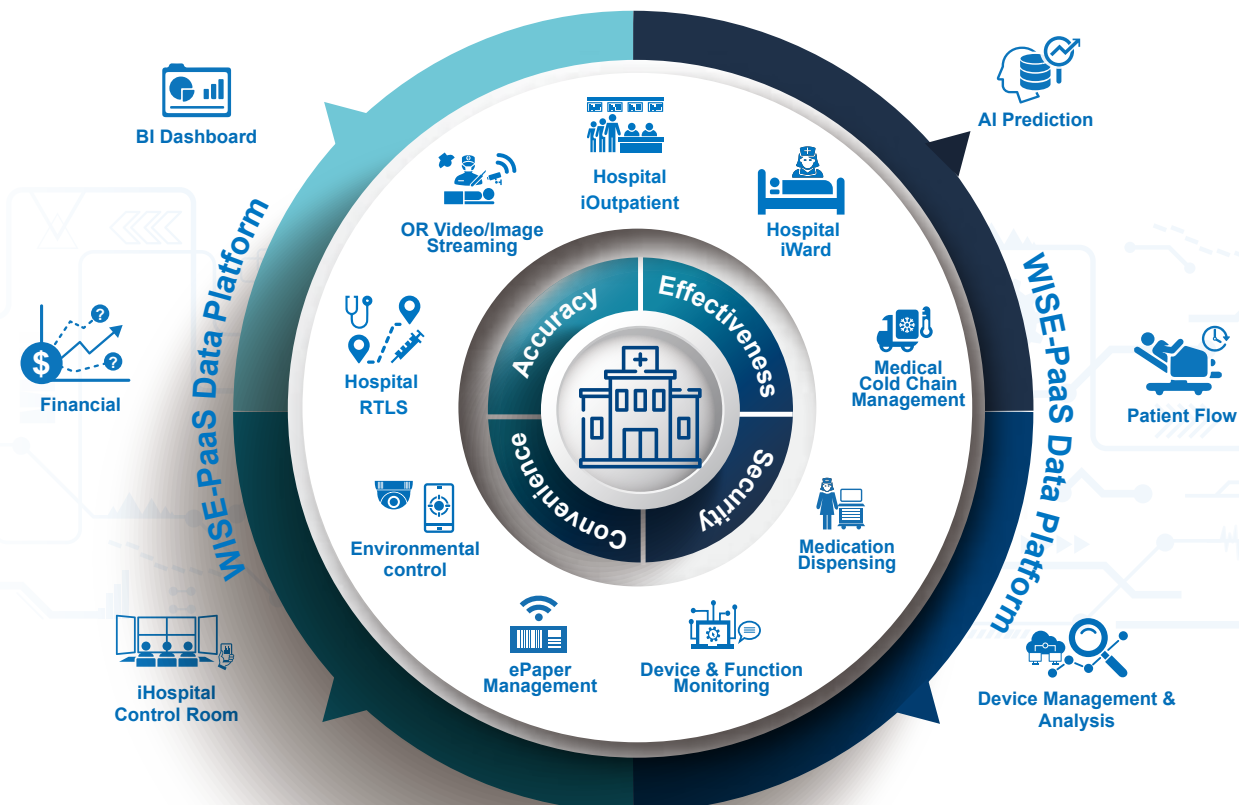
Yuanlin Christian Hospital (YCH) is a new medical institution affiliated with the Changhua Christian Hospital that holds a significant place in the history of medicine in Taiwan. Specifically, YCH was the first ever intelligent hospital in Asia to integrate intelligent systems with patient services, 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 Wards 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.



Blueprint of Intelligent Hospital



Ordering Information

iWard Solution

Solution Package			
Solution Type	Edge Computing		i.APP
1. <input type="checkbox"/> Nursing Dashboard	<input type="checkbox"/> DS-780 <i>DS-780UDS1-G1E-C</i> 	<input type="checkbox"/> USM-500 <i>USM-500-W7853M</i> 	 iWard Control Center  Nursing Station Dashboard  Patient Call Engine  Patient Care Management
2. <input type="checkbox"/> Control Center	<input type="checkbox"/> HIT-W183 <i>HIT-W183AP-AMW1E</i> 	<input type="checkbox"/> AIM-55 <i>AIM-55AT-10103000</i> 	
3. <input type="checkbox"/> Patient Information Terminal	<input type="checkbox"/> HIT-W183 <i>HIT-W183AP-AMW1E</i> 		
4. <input type="checkbox"/> Bedhead Information Terminal	<input type="checkbox"/> HIT-W101 <i>HIT-W101HWIB-B1E-C</i> 		
5. <input type="checkbox"/> Vital Sign Measurement Automation	<input type="checkbox"/> AMiS-50E <i>AMIS-50E-1M1K2NE-C</i> 		
6. <input type="checkbox"/> Medication Management	<input type="checkbox"/> AMiS-50M <i>AMIS-50P1A1-S1E-C</i> 		 RTLS Solution
7. <input type="checkbox"/> Mobile App	<input type="checkbox"/> USM-110W 	<input type="checkbox"/> LEO-910	
8. <input type="checkbox"/> Real-Time Location System	<input type="checkbox"/> LEO-T21 	<input type="checkbox"/> LEO-710 	
		<input type="checkbox"/> LEO-730 	

Advantech Headquarters

No. 1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei, Taiwan 11491
Phone: 886-2-2792-7818 www.advantech.com

US/Canada: 1-888-576-9668
Europe: 00800-2426-8080/8081
Netherlands: 31-76-5233100
China: 800-810-0345

Taiwan: 0800-777-111
Japan: 0800-500-1055
Korea: 080-363-9494
Other countries: 0800-777-111



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