DIGITAL NURSE CALL SYSTEM
INTELLIGENT HEALTHCARE
COMMUNICATION SYSTEM

1. **TCM-YHE916S INTELLIGENT HEALTH CARE COMMUNICATION SYSTEM**

Feature:

1. Adopting two-wire system networking, integrated the power supply wire, data signal wire and acoustic signal wire into one wire with two cores. All the sub stations are parallel connected in to the bus and whole system only need one two-core bus bar.

2. Patient list design with bed UI interface design, support inpatients number statistics.

3. Call and talkback, support master host and substation unit two way call, no need transfer.

4. Staff assist function: if need more staffs assistance, press to realize staff assistance.

5. Sub station unit no interrupting call: support substation units call-in and display at anytime.

6. Communication voice volume adjustment for both host and substation unit.

7. Online number function: support online bedsides substation number setting and modify. Support online bath station and corridor lights number setting.

8. Sub stations related setting. Support bedside station and bath station correlated with corridor light, ward number. When sub stations call, these related devices will also show alarm.

9. Call recording: when sub stations call and no host responding, the host will record this number and indication according call sequence.

10. Voice number broadcast function: voice broadcast the ward number,bed number, nursing level and support volume setting by period.

11. High level priority: system supports nursing level adjustment and the higher nursing level is priority call and display

12. Call corridor display

13. Ward broadcast function: support health education, broadcast by microphone, background music broadcast function.

14. Off line operation: even network has some problem and the PC failure the system still can do the call, communication and alarm function.

15. Faulty self-checking: supports multiple faulty checking method,includes bus bar short circuit alarm, voltage and current testing, faulty sub station inspection, system log book, abnormal analysis recording ,etc

2. **System networking diagram**
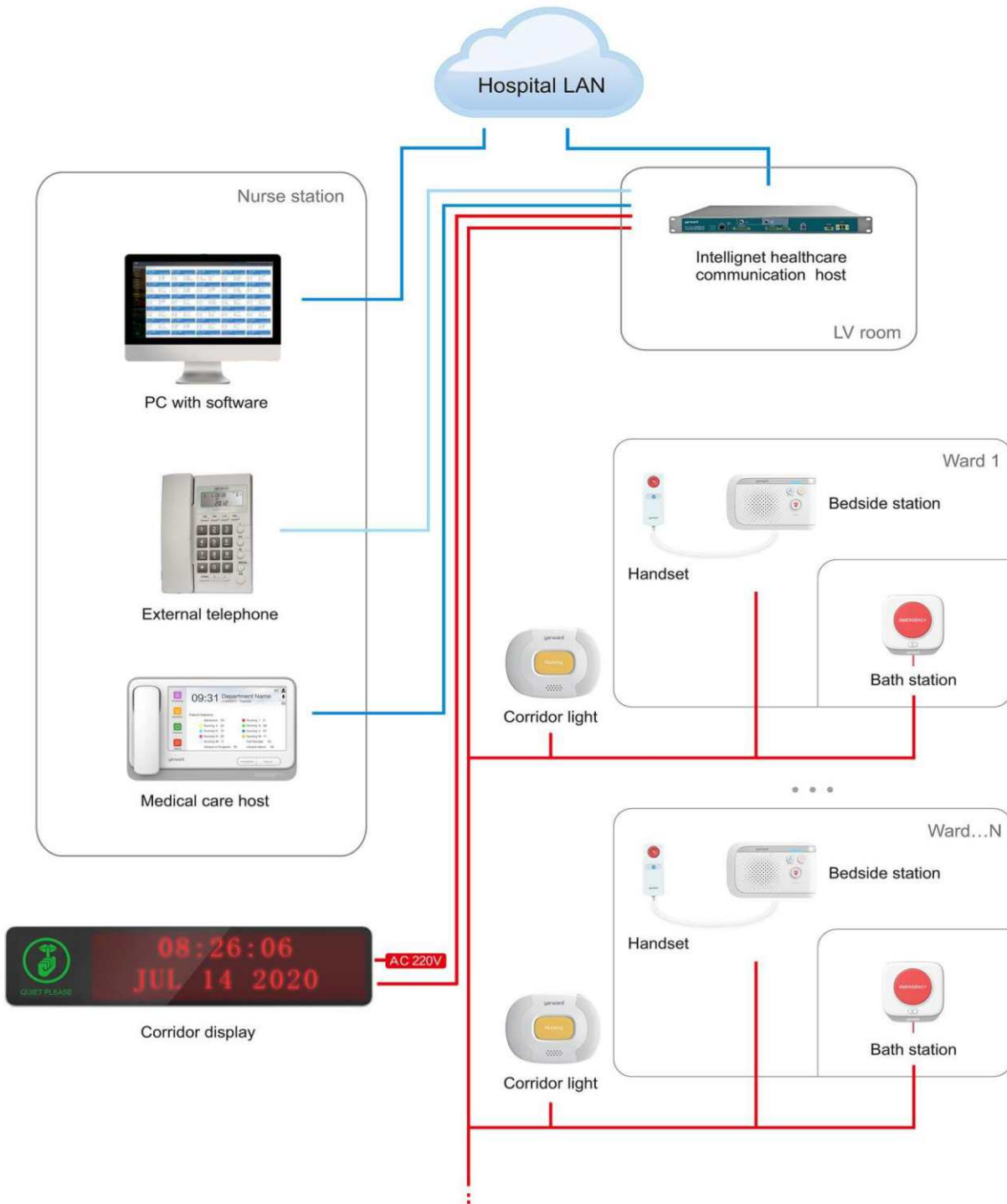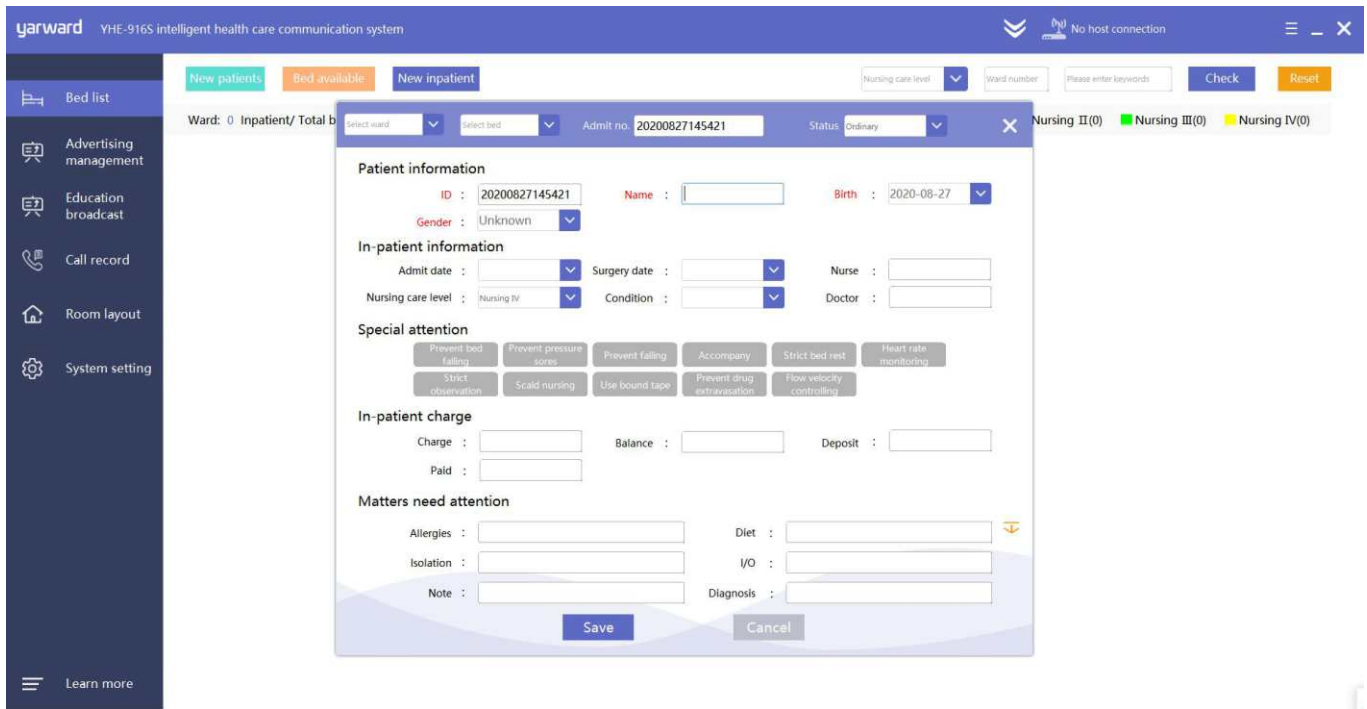
TCM-YHE916S Intelligent Healthcare System-2

Hospital LAN

Nurse station

PC with software

External telephone

Medical care host

Intellignet healthcare communication host

LV room

Ward 1

Bedside station

Handset

Bath station

Corridor light

Ward…N

Bedside station

Handset

Bath station

Corridor light

08:26:06
JUL 14 2020
AC 220V

Corridor display

Illustration   RVV2*1·5   CAT-6   Telephone line

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3. **Introduction of product function**

Model	TCM-916S INTELLIGENT HEALTH CARE COMMUNICATION HOST
Function	Adopting two-wire system networking, integrated the power supply line, data signal line and acoustic signal wire into one wire with two cores. It makes the installation and maintain simpler assuring system stable running.
	System data exchange controlling and sub station using source reasonable distribution.
	Sub stations power supplying, controlling and real-time current/voltage checking
	Host(external telephone) call function is not based on the PC, so even PC has some faulty and can't work, system still can realize the call, communication, adjustment and alarm function.
	Power amplifier function, so even in noise environment the voice number and alarm will be easy to hear.
	RJ45 networking port for call information transmission through TCP/IP.
Max. Communication range	800m
Outline dimension	482*250*45mm

PC SOFTWARE

Function	Main interface display the bed list. Adaptive resolution to display the whole wards and beds list.
	Editing interface display the patients information, supports out patient operation.
	Support connect with HIS and real-time patients information customized publish.
	Support connecting with LCD TV to realize the information display board function for beds list and nursing work list.
	Voice number for bed number, ward number and nursing level. Support volume adjustment according different time period. Support voice number report time adjustment.
	Call window when patient call for staffs to respond. If no respond the system will record and remind automatically.
	Support higher level nursing call with priority, and can interrupt lower level nursing call and communication.
	Support call record checking and data output and analysis.

Cascade host

Model	TCM-Z9S CASCADE CONNECTION HOST
Outline dimension	428*250*45mm
Function	Two wire system power supply central controlling unit
	Automatic recovery function of lightning protection, surge protection, short circuit protection, grounding protection, overload protection and other multiple protection circuit system
	Increase the load capacity of bus belt, so that the system can connect more extension hardware forwarding, without any delay

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Model	**TCM-927** MEDICAL CARE HOST		
Installation	Handle on table or wall surface installation.		
Screen size	10.1"	resolution	1024*600
Outline dimension	322*205*58mm	Operation	Touch operation and button
Function	A 25-color LED light is used to indicate the level of patient nursing level.Nursing level colors can be configured systematically.		
	The handle adopts magnet adsorption design, which not only meets the reliability requirements, but also facilitates daily cleaning and wiping.		
	The number of hospital ward and hospital bed can be displayed and broadcast by voice. The number of broadcasting can be adjusted. Two broadcasting methods, namely circulation broadcasting and interval broadcasting, can be supported.		
	Can initiate a voice call to a patient terminal, two-way intercom operation.		
	Support independent broadcast function, can choose any bed through the screen for microphone broadcast function, convenient for all kinds of propaganda and education operations.		
	The list of beds can be displayed in standard mode and simplified mode.Simplified		

	mode can show more beds at the same time, while standard mode can visually show more information content.
	Support call intercom, call display, call not processed reminder and one-key clear and other functions.
	The call volume of the automatic adjustment system is provided with 4 periods, each period of time can be flexibly adjusted.
	It has functions of circuit detection, fault alarm, fault patrol and work log.
	The device supports the online upgrade function, and the program can be upgraded through the server.

Model	**TCM-D208SC** CORRIDOR DISPLAY
Installation	Corridor ceiling installation or hanging installation.
Outline dimension	826*190*53mm
Main function	Double side Φ 3.75 single red dot matrix,support 2 lines x 8 Chinese words display.
	The call circularly displays the level of care, room number, and bed number
	Support display date, time, nurse location, warm tips and other content
	Built-in speaker, support synchronous voice number

Model	**TCM-X245K** CORRIDOR DISPLAY
Main function	Corridor double sides display
	Multi-function display, can display room number, bed number, call sequence number, time, etc
	PMMA acrylic panel engraving and processing into one body, with excellent transparent display effect
Max. Consumption	5W
Work voltage	20V
Outline dimension	556mm*215mm**32mm
installation	Corridor ceiling installation.

Model	**TCM-510WS** BEDSIDE STATION
Function	Two wire networking, line size RVV2× 0.5mm² ,special suitable for old nurse ward upgrading.
	Alarm light supports nursing level indication function, supports max.25 colors, Optional light off time period to avoid effect patient rest.
	Device supports intercom and talkback function,. There're obviously call buttons in both handset and bedside station main unit.Bedside station unit has Call Cancel button.
	There are one-key infusion drag replacement button in the handset. Press it to indicate the infusion drug replacement.
	Code blue function.
	Support call transfer function, support the communication with call from other wards.
	Support nursing operation function. The nursing button can cancel the no process call and system will locate the nurse position.
	Online sub station number setting, for easy system adjustment and installation.
Outline dimension	136mm*89mm*12mm
Installation	Surface installation on wall or bed equipment zone.

Model	**TCM-K9-7YL** HANDHELD
Main function	Call/cancel function, patient can initiate/cancel calls through the bedside station
	There is a special drip alarm call button, which can directly send a dressing request and directly prompt the nurse about infusion request information.

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Model	**TCM-6277L** BATH STATION
Function	For emergency call, with highest priority.
	Light and audio alarm when call, also broadcast in the ward zone.
	Cancel function for clear the error operation.
	IP68
Max. consumption	0.5W
Outline dimension	102mm*105mm**25mm, protrude thickness 12mm
installation	Installed in 86 mounting box, about 0.6-0.8m from the earth.

Model	**TCM-6277CB** CODE BLUE BUTTON
Dimensions	102*105*25mm,protrude thickness 12mm
Function	The large blue emergency reinforcement call button design is convenient for medical staff to press accurately in an emergency.
	Distinguish between call button and clear button to prevent medical staff from pressing the call button multiple times in an emergency by mis-operation.
	There are obvious sound and blue light alarm prompts when calling, and the system has broadcast prompts in the ward, which is convenient for medical staff to respond quickly.

Model	**TCM-637S** CORRIDOR LIGHT
Outline dimension	138*106*27mm
Function	25 color door corridor light, support different nursing levels indication.
	Installed near the door, related with the ward sub stations.
	Nursing button for nurse to process the call at the door.

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