

IoT Wireless (LoRa) cloud based healthcare solution

For elderly homes



Mission

Improve caring service of elderly homes

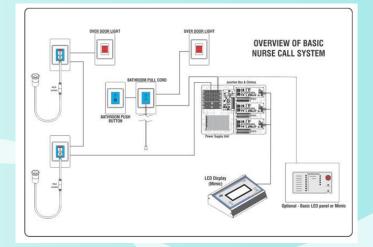
Vision

Centered on the wellness and dignity of older adults



Pain Point for wiring nurse call system of elderly homes

Automation is incredible. Traditional nurse call system is much less exceptional when it goes wrong due to things like poorly integrated sub systems, inconvenient wired cabling, inadequate functionality, and installation delays, automation problems can arise.







HKC propose Wireless (LoRa) Cloud based healthcare solution

We offer a flexible and intuitive wireless health care solution backed by a range of patient monitoring devices and linked with our health care platform – CICS, stands for Communication Integrated Caring System (CICS) to improve quality of elderly care, safety and service delivery for elderly homes.

*Existing organizations can also upgrade easily with subscription model

Buy or Lease Nursing Care Products as you need





Operation Work Flow

Ala	##### Irm List G/F ,	1/F		ENG 中文(繁體) 中文(简 User Name		
	Name	Location	Device	Elapsed Time	Status	Staff
ert 1	User1	1A	Bedside Call Unit	11:34:16	Active	
D 2	User2	1B	Bedside Call Unit	11:35:16	Active	
3	User3	1C	Bedside Call Unit	11:36:16	Complete	
ation 4	User4	1D	Bedside Call Unit	11:45:16	Complete	
5	User5	1E	Bedside Call Unit	12:00:16	Complete	
ort 6	User6	1F	Bedside Call Unit	12:13:16	Complete	
7	User7	1G	Bedside Call Unit	12:30:16	Complete	
ing 8	User8	1H	Bedside Call Unit	12:45:16	Complete	



- 3. The notification will include
- \succ the elapsed time,
- floor and room number,
- and the status on screen will appear to be 'Alarm'.

1. Press Call Button



6. Press the reset button to complete the emergency call

2. Emergency alarm to security office

4. Tap the access card and intercom to call back



7. Update records in cloud server for report and statistics

5. Immediate assistant

Wireless (Wi-Fi) Bedside Call Unit (With Voice Call Version)









Wireless Bed / Seat pad sensor

Functional Features:

- One large round button for nurse call with nurse symbol on both panel and call cord
- Contain build-in speaker on panel and microphone on both panel and call cord for patient and staff active communications
- Call unit will send out alert signal to the Cloud-based Central Control and Monitoring System for real time record
- Wi-Fi Connection to Cloud

Optional Module :

- Integration with Seat & Bed Pad Sensor **Bedside Call Unit is able to give reminder messages to elderly by voice recording to remind them stop their leaving action and stay on bed or chair.
- Integration with smoke alarm

Wireless (LoRa) Bedside Call Unit (Without Voice Call Version)

NIC



Functional Features:

- Large Call buttons for Bedside Call Unit and Emergency Call Cord
- Bedside call unit will send out alert signal to the Cloud-based Central Control and Monitoring System for real time record
- Three Colors Indication Lamp :
 - Red for call alarm
 - Green for reset alarm
 - Orange for no battery
- Can provide reset function
- LoRa Connection to Cloud

Optional Module :

- Integration with Seat & Bed Pad Sensor **Bedside Call Unit is able to give reminder messages to elderly by voice recording to remind them stop their leaving action and stay on bed or chair.
- Integration with smoke alarm

Wireless Bed / Seat pad sensor

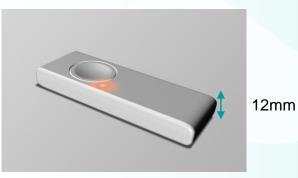
張婆婆您好呀,請不要離開 輪椅,請等<u>姑娘過來幫你</u>

Wireless Portable Emergency Call Button





29.5mm



Specification :

Specification

- Portable Model : TC-D3
- Color : White.
- Size : 29.5 x 12 x 81mm (Width x Height x Depth).
- Power: Replaceable batteries
- Buttons and Connectors : Emergency Button
- Light : Red
- Environmental Requirement
 - Operating ambient temperature : 0 to 50C
 - Relative humidity: 5% to 93% noncondensing
 - Water-proof IP68
- Certification : CE
- LoRa Connection to Cloud

Wireless (Wi-Fi / LoRa) Bedside Call Unit



NBDR - D1

NBDR - D2

Specification for Wireless Bedside Call Unit:

- Model : NBDR D1 / D2
- Color : White

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• Size and Weight :



With voice call version : 190.8 x 86 x 15mm (W x H x D), 120g approx.

Without voice call version : 88 x 88 x 16.4mm (W x H x D), 90g approx.

- Panic button size : 25mm X 25mm
- Buttons and Connectors
 - **Emergency Button**
- 3.5 mm jack for Call Cord Connection
- Light 3 Colors : Red, green and orange
- Power Replaceable batteries
- Environmental Requirement
 - Operating ambient temperature : 0 to 35C
 - Relative humidity: 5% to 93% noncondensing
 - Certification : CE
- Call and reset buttons 2-in-1
- Wi-Fi or LoRa Connection to Cloud

Wireless (LoRa) Bathroom/Toilet Call Unit





Functional Features:

Resident push the alarm for emergency Location information report to the central control office

Three Colors Indication Lamp :

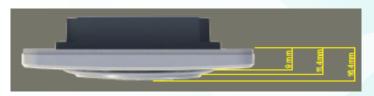
- Red for call alarm
- Green for reset alarm
- Orange for no battery

Water-proofed Can provide reset function LoRa Connection to Cloud

Wireless (LoRa) Bathroom/Toilet Call Unit







Specification :

Specification

- Model : TC-D2
- Color : White.
- Size : 88.5 x 88.5 x 16.4mm (Width x Height x Depth).
 - Power: Replaceable batteries
 - Buttons and Connectors : Emergency Button
 - Light : 3 Colors : Red, green and orange
 - Environmental Requirement
 - Operating ambient temperature : 0 to 50C
 - Relative humidity: 5% to 93% noncondensing
 - Water-proof IP65
 - Certification : CE
 - LoRa Connection to Cloud

Service Robot integration with Seat & Bed Pad Alarm



Service Robot will be alerted if the elderly tries to leave the bed or wheelchair, our service robot will be able to provide timely assistance automatically upon receiving a digital signal generated from the alarm



Seat Pad with wireless Transmitter



Video communication with caretakers



The service robot is built with telepresence function which enables users to perform video communication with caretakers or family members



Smart Talk , elderlies' buddies



Directly asks the chatbot in Cantonese for service related questions is a fast and pleasant experience. Customized smart talk service saves lots of time for caretakers.





Patient Room Door Sign

- Show patient names and bed location
- Alert visitor restriction, allergies or medical precautions to clinicians and visitors
- Patient care team information
- Easy to read
- Easy installation
- · Long battery life. Information always on, even during power outage
- No light pollution to disturb patients



Patient Care Sign

- Connect wirelessly to HER and EMR system for real-time update
- Show patient alerts: visitor restrictions, allergies, medical precautions
- Medical conditions
- Medications prescribed and schedule
- Optional nurse call button and response time stamp

9:41 an z. :	O'differin lig: 200
≓ 20	。 8 ●陳美兒
康就:	2084.新美展
康勤:	208B陳美門
床就:	203C張小瓶
床愁:	203D 梁風鳴
床实	203E 李惠珍
康弘:	203F 郭月連



Vital Sign Monitoring

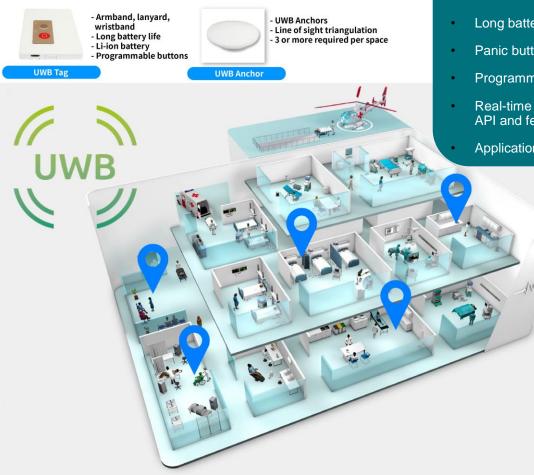




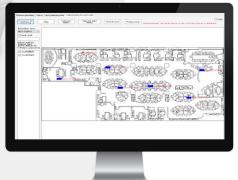
- Cloud-based service analytics
- Health-data Collection System which can be integrated with personal electronic health records.
- For health profession remote and long-term monitoring
- Abnormal data alert to caretakers



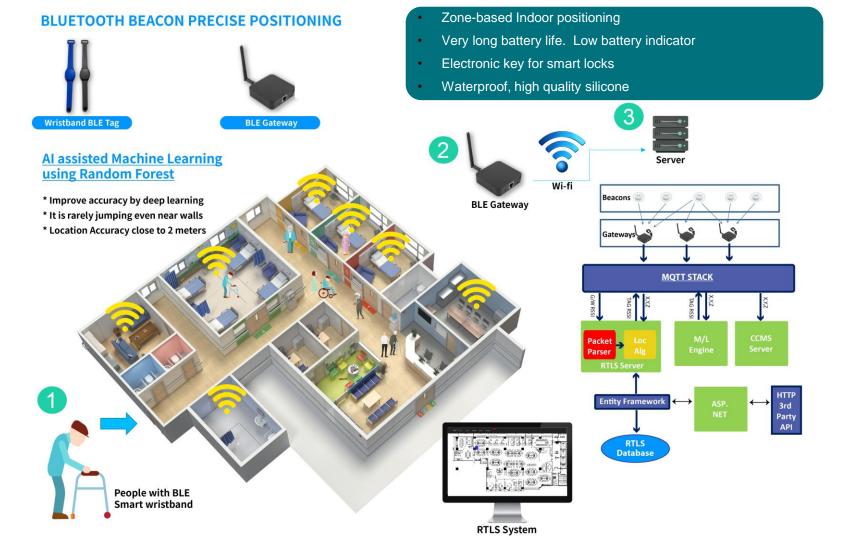
UWB PRECISE POSITIONING Locate patient and device with accuracy of centimeter level



- High precision to centimeter level Ultra Wideband (UWB)
- 3 Anchors for accurate triangulation of position
- Long battery life. Adjustable update frequency
- Panic button built into the tag
- Programming input buttons for advance application
- Real-time Location System (RTLS) Server with powerful API and features
- Applications include contact tracing, alarm location



Real time location system



Fall Detection Sensor

Motion detection sensor is one of an intelligent smart washroom management equipment. It can prevent accidents caused by accidental faint in toilet compartment. If dynamic sensors are installed in each toilet compartment, once it detected the user does not move in the toilet for more than 10 minutes, the sensor will automatically notify the management staff and issue an abnormal alarm, so that the administrator can call the ambulance for immediate rescue.



✓ Easy to use

- Easy installation
- ✓ Battery powered
- ✓ 10 mins (adjustable) for abnormal alarm
- ✓ Siren can be connected
- ✓ Mobile APP/web base alarm system (optional)
- Low-power LoRaWAN remote network connection (optional)
- Connect door contact sensor (optional)





Smart Elderly Exercising Mirror

- Exercise at home prevents disease
- Lower risk of falls
- Improve mental health and well-being
- Strengthen social ties
- Smart Mirror application provide instruction videos and AI body tracking





IoT Wireless (LoRa) cloud based healthcare solution

A subscription base service provided by HKC for elderly homes

Why Choose Us?



User Friendly. No specialized training required



RELIABILITY Years of experience and valued customers



CONNECTIVITY

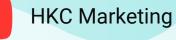
LoRa wireless technology offers reliable coverage of larger size residential buildings

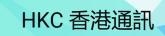


Integrated all-in one smart healthcare devices



THANKS!







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