Patient Real Time Location & Tracking Solution



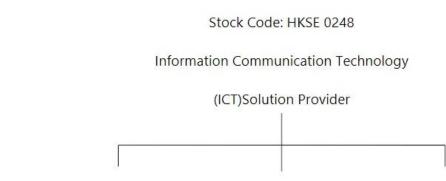
HKG: 248

Hong Kong Communications Group Structure

HKC International Holdings Limited

HKC International Holdings Limited is a major Information Communication Technology (ICT) Solution Provider in Asian Pacific region. With headquarter in Hong Kong, HKC group also owns oversea branches in Mainland China and Singapore. The Group was successfully listed in The Stock Exchange of Hong Kong Limited in 2001 named as HKC international Holdings Limited (Stock Code: 248).

The Group will endeavor to deliver its expertise in providing professional ICT solutions to its customers ranging from Intelligent Building Solutions, RFID Solutions, Health Care Solutions and Al Robotic Solutions.

















Pain point of Hong Kong Public Hospitals

Statistics:

Waiting time display is capped at 8 hours amid a large number of patients waiting for a long time are being treated in the A&E Department. Patients with minor illnesses can consider seeking alternative medical services from private clinics (as listed in Primary Care Directory or Hong Kong Doctors Homepage).



Reference Link:

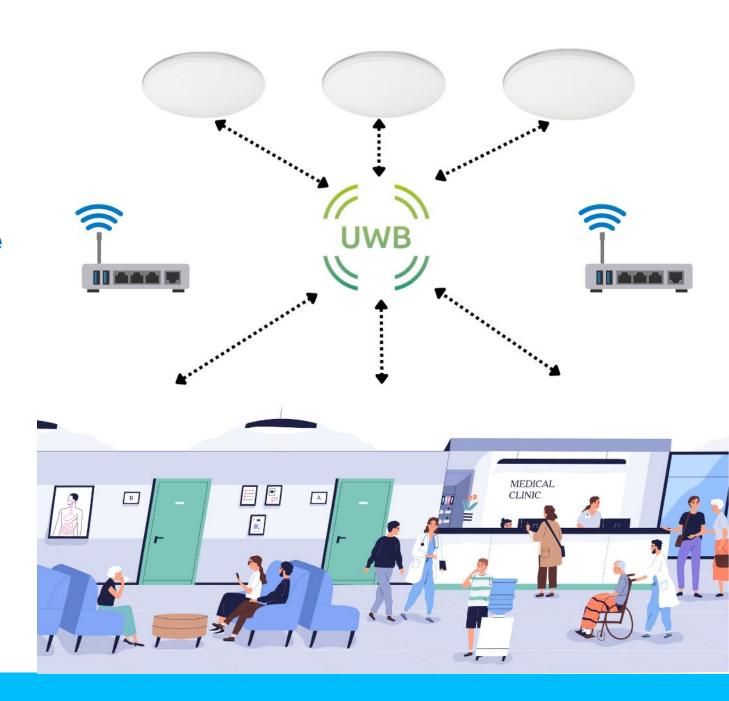
https://www.ha.org.hk/visitor/ha_visitor_index.asp?Content_ID=235504&Lang=ENG#:~:text=Waiting%20time%20display%20is%20capp ed,or%20Hong%20Kong%20Doctors%20Homepage).

HKC Solution 1

We provide UWB tracking system for the prevention of wandering incidents of patients in hospital waiting area.

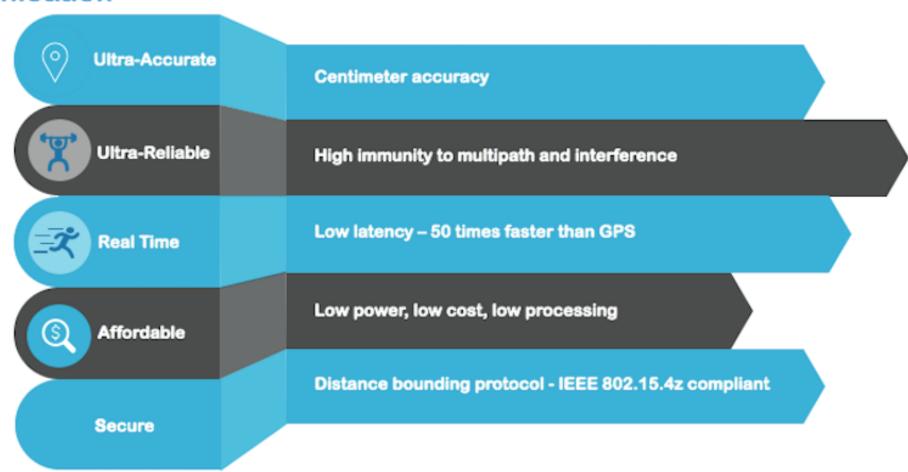
Accomplish by

- 1. UWB Tag
- 2. Instant alarm signal received by on duty hospital officials



What is Ultra Wide Band?

A technology designed specifically to deliver micro-location and secure communication



Reset Button

SOS Emergency Button





UWB Anchors

UWB anchors emit short-duration, high-frequency pulses of radio waves that can be used to measure the time of flight (ToF) of signals between the anchors and UWB tags

HKC UWB Tag and UWB Anchors

(For Precise Positioning)

- 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

System Architecture

- Patients wear UWB tags adopting the Ultra wide-band technology
- UWB Anchors are installed on the ceiling or surrounding walls in fixed locations up to 25 meters apart. The anchors can be powered via USB or PoE (Power Over Ethernet). For example, a 10000 mAh USB battery can power the anchor for 50-60 hours or so
- At least 3 anchors are needed for a 25×25 space. The anchors synchronize their internal clock via Ethernet cable or WiFi and then listen for pings from UWB tags
- 4. Once synchronized, the "Real Time Location Server" (RTLS) will calculate the tags' position based on time difference of signal arrival at the anchors (TDoA)

***Emergency signals will immediate alert onsite hospital officials by APP if patients press the emergency call button

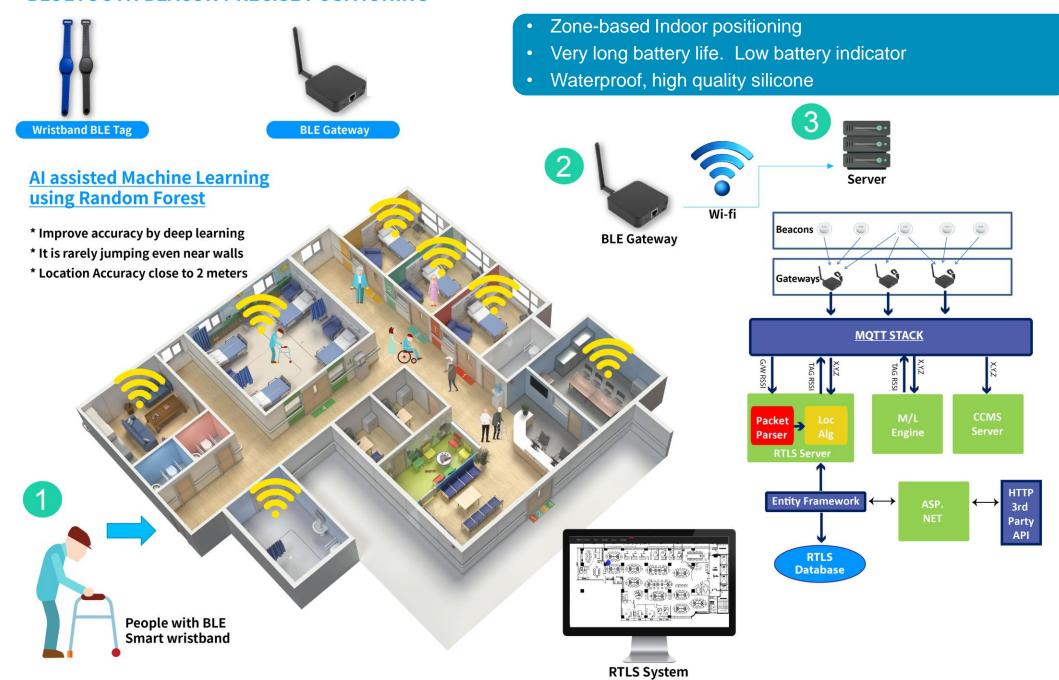


HKC Solution 2 : BLUETOOTH BEACON PRECISE POSITIONING



HKG: 248

BLUETOOTH BEACON PRECISE POSITIONING



A relief of the shortage of manpower of on site officials

Remote instant emergency alerts from PC / tablet / mobile

Easy operation by on site officials

UWB tags or wristbands are easy and fast to wear by children and elderly

We provide on site installation and professional after sales service

Benefits & Impact

The deployment of **UWB** or **Bluetooth Location Tracking Solution** will improve
the overall safety of public hospitals



Reference Cases



The Tanner Hill

The first non-subsidised quality elderly housing project in Hong Kong



Blissful Place

Project of the "lease-for-life" Senior Citizen Residences Scheme



National Cancer Centre Singapore

Real Time Location Tracking
System

Thank you!

Hong Kong Communications Co., Ltd.

Address: 14/F., Block B, Vita Tower, 29 Wong Chuk Hang Road, Hong Kong

Tel: +852 2527 8822 Fax: +852 2865 6016

Email: contact_hkcgroup@hkc.net Website: http://www.hkc.com.hk



HKG: 248