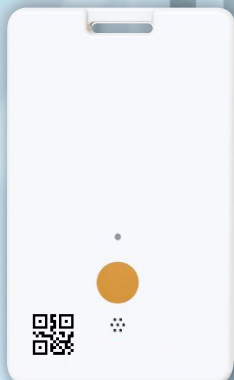


## HANATECH

Integrated Smart Social Distancing  
& Contact Tracing Solution



WAREHOUSE



CONSTRUCTION



OFFICE



SUPERMARKET



SCHOOL



PUBLIC BUILDING

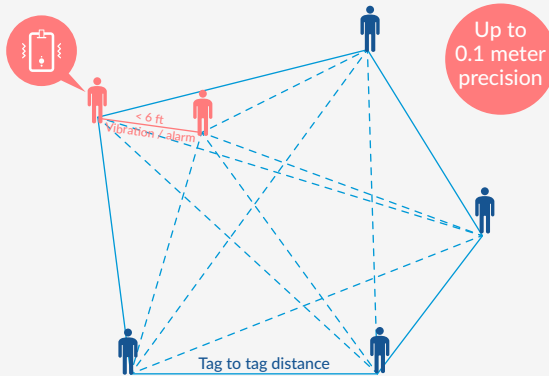


MANUFACTURING



## CONCEPT

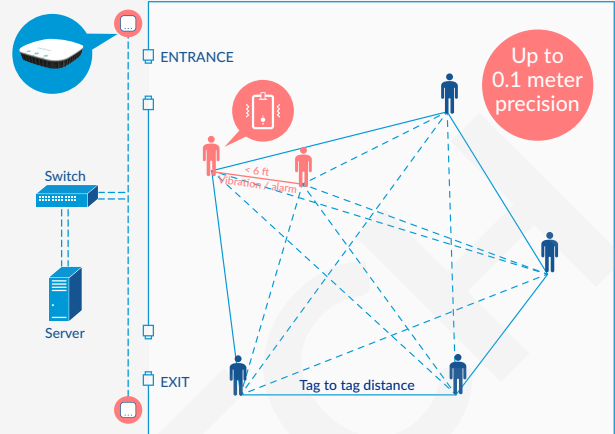
### BASIC SOLUTION



#### SOCIAL DISTANCING

- Ranging between tags, no fixed anchor needed
- Alarm / vibration / signal light triggered when intruding 6ft social safe zone
- Intruding incident information including ID / time / duration recorded in tags

### ADVANCED SOLUTION



#### CONTACT TRACING

- Only one gateway is needed at the entrance of factory or hospital
- UWB gateway receives contact record from tags when people entering or leaving the factory or hospital
- UWB gateway records the entering and leaving time, and indicates battery status
- With Hanatech value added solution, you can use one tag for multiple persons in different shifts, visitors, customers in your facility, office or plant.

## FEATURES



#### HIGH RANGING PRECISION

-/+ 0.1m precision, 10 times more accurate than Bluetooth



#### STRONG DATA PROTECTION

Data encryption. Stored on-premise / on cloud, not Tsingao's server



#### TAG-TO-TAG RANGING

No positioning / installation required for ranging, data privacy-friendly



#### EASY TO DEPLOY AND OPERATE

No installation required for social distancing; for contact tracing, Basic IT knowledge required



#### HIGH CAPACITY

Support 40 tags in small room with refresh rate of 1s



#### EFFICIENT POWER CONSUMPTION

Rechargeable battery works on average 24h\*



#### LARGE STORAGE CAPACITY

Store more than 1000 contact records in tag

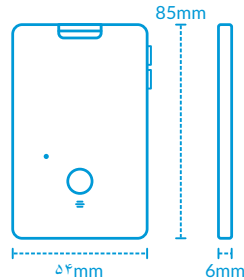
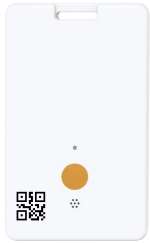


#### FLEXIBLE DATA COLLECTION

Gateway can be placed anywhere to collect data

## BASIC SOLUTION

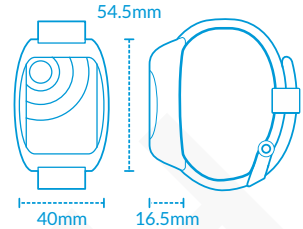
**TAG** Ranging with each other



### Ha1001-A

Radio frequency: UWB 6.1 ~ 6.9 GHz  
 Battery type: Rechargeable LI 450 mAh  
 Working hours: average charging cycle 24h\* (Micro USB)  
 Operating temperature: -10°C ~ +60°C(14°F) to (140°F)  
 Storage temperature: -20°C ~ +70°C(-4°F) to (158°F)  
 Working humidity: 10% ~ 90% non-condensing  
 Storage humidity: 5% ~ 95% non-condensing

- Buzzer
- Vibrator
- Alert light (red light blinks for signal)
- Button (Mute 10 seconds / Battery inspect)



### Ha1002-B

Radio frequency: UWB 6.1 ~ 6.9 GHz  
 Battery type: Rechargeable LI 600 mAh  
 Working hours: average charging cycle 24h\* (magnet port)  
 Operating temperature: -10°C ~ +60°C(14°F) to (140°F)  
 Storage temperature: -20°C ~ +70°C(-4°F) to (158°F)  
 Working humidity: 10% ~ 90% non-condensing  
 Storage humidity: 5% ~ 95% non-condensing  
 Waterproof rating: IP65

- Buzzer
- Vibrator
- Alert light (red light blinks for signal)
- Button (Mute 10 seconds / Battery inspect)

## ADVANCED SOLUTION

Besides social distancing, advanced solution also offers contact tracing. It is composed of basic solution (tag) plus gateway and software.

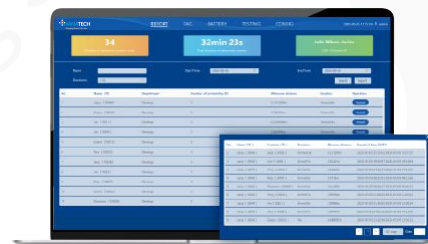
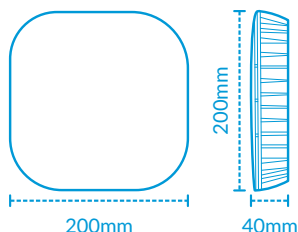
**GATEWAY** Receive contact record and config tags

**SOFTWARE** Contact recording and tracing



### Ha2001-c

Data interface: Standard Ethernet  
 Power interface: POE / DC 24V  
 Working temperature: -20 ~ 70°C



### RECORD THE CONTACTS

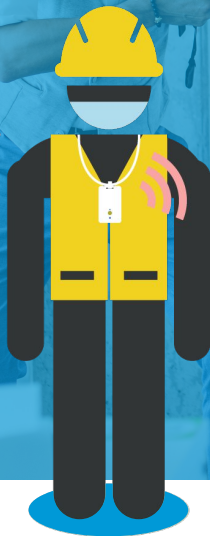
Record ID, name and time of intruding incident within 6ft.  
 Search incident in multiple ways.

### REAL TIME RANGING (TEST MODE)

Receive and display real-time distance between tags, the UWB gateway should be around tags, this is for testing mode, under working mode only ranging data less than 6ft would be recorded in tags.



# CERTIFICATIONS



0.1m Accuracy  
2M/6Ft



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