

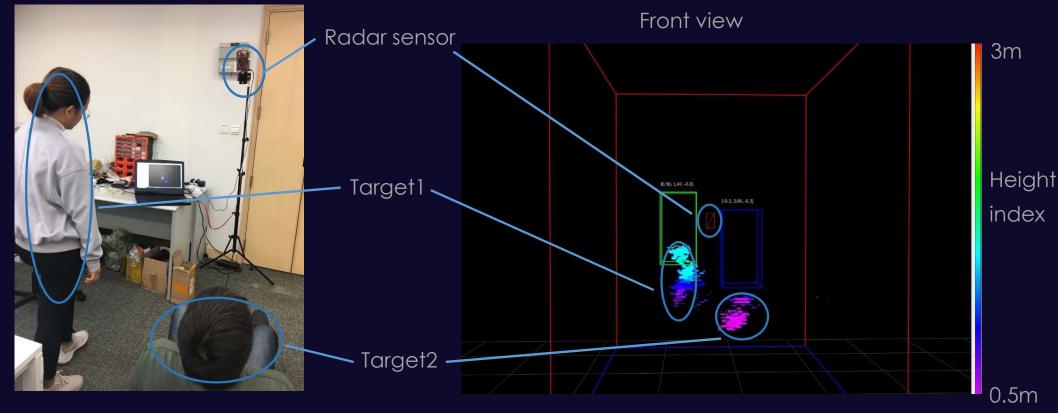






Core Technology

Position tracking - 3D object motion tracking device without images









Core Technology

Position tracking - 3D object motion tracking device without images



- 3D position tracking
- Stay time counting
- Social distancing

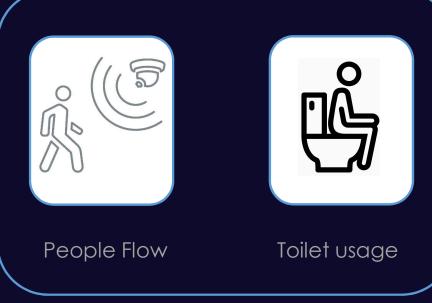








We develop 24/77GHz motion tracking algorithms and products. Products are focused on human body movement



24GHz radar/Object Detection



77GHz radar/Motion Tracking



Use case (1)





People Flow Management



HKSTP



Sino Plaza

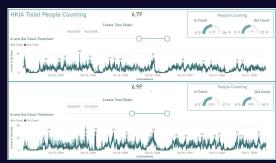
Description

- Building in/out flow management
- HKIA toilet usage versus flight schedule
- Lecture room/meeting room usage

Working scenario







- Hong Kong Science Park
- Sino Plaza
- HKIA (PoC)



Accident Detection





Disabled toilet @ Mount Pavilia



Toilet @ CIC office



Description

- toilet surveillance monitoring abnormal motion
- Fall down accident/ Long stay without motions can be detected
- Head to head fighting

Working scenario

- Disabled toilet/nursery room
- Hotel room
- Elderly center









Bed Exit Monitoring System



Define Bed Zone/Exit Zone

Motion Checking at night time

Alert for bed exit more than 30min









Accident Alert System



Define Detection Zone

Motion Checking at night time







Motion tracking module spec

	Module Details
Dimension	160 x 100 x 56mm
Supply	220V, 3A
Temperature range	0 - 85 deg
Frequency Band	60 – 64 GHz
TX/RX	3TX / 4RX
Components	 60GHz radar transceiver system Baseband analog unit Power control system Edge computing system for motion tracking algorithm
Sensor Algorithm	 User position tracking algorithm User predefined motion monitoring User behavior analysis
Response Time	100ms/frame
Field Of View	120 deg x-axis 120 deg y-axis
Coverage range	0.5m – 8m



Module snapshot



In house testing snap





Real deployment snapshot







Thank you

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