



CREATROL SENSOR **PRODUCT APPLICATION GUIDE**

2025

True Radar · Intelligence Understanding · All Scenario

OUR PRODUCTS LINE

Industrial



77GHz Industrial Radar









Detection Range



Currently Supported Protocols

 KNX

 tuya

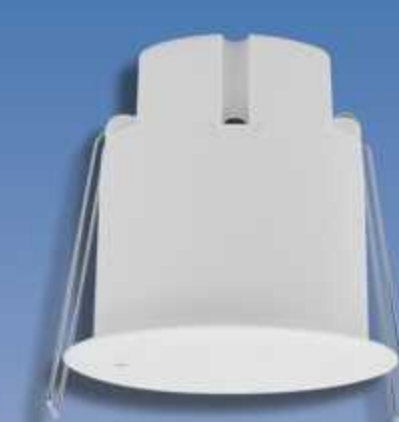
 zigbee

WiFi

Switch

RS485

Healthcare



60GHz Radar

Ø 55mm

 Fall Detection

 Leave Area

 Posture Detection

 Leave Bed

 Counting

 Respiratory and Heart rate

Detection Range



Currently Supported Protocols

 KNX

 DALI

 tuya

 zigbee

 Bluetooth

Switch

RS485

WiFi

matter

0-10V

Presence



24G MAX Radar

Ø 55mm

 Range

 Light Sensor

 Range

 Light Sensor

 Creatrol Algorithm

 Interference Resistant

 Creatrol Algorithm

 Compact Size

Detection Range



Currently Supported Protocols

 KNX

 DALI

 tuya

 zigbee

 Bluetooth

Switch

RS485

WiFi

matter

0-10V

Ranging



Ranging Radar

Ø 55mm

 Approach Departure

 Segmented Detection

 Approach Departure

 Segmented Detection

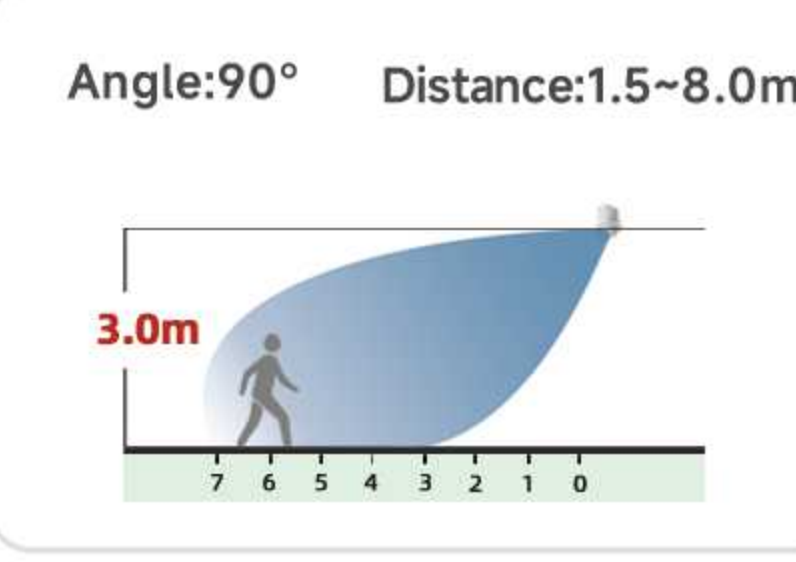
 30-700cm Ranging

 90° Angle

 0-320cm Ranging

 11° Angle

Detection Range



Currently Supported Protocols

 KNX

 DALI

 tuya

 zigbee

 Bluetooth

Switch

RS485

WiFi

matter

0-10V

Motion



High-Ceiling Radar

Ø 35mm

 2.5-12m Installation

 Ø15.0m Range

 360° Angle

 20° Angle

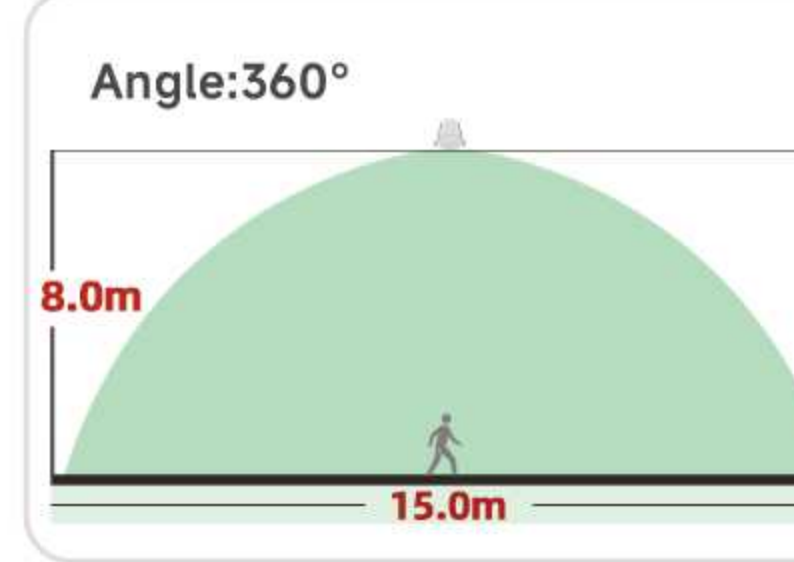
 Light Sensor

 Compact Size

 Light Sensor

 Compact Size

Detection Range



Currently Supported Protocols

 KNX

 DALI

 tuya

 zigbee

 Bluetooth

Switch

RS485

WiFi

matter

0-10V

PRODUCT MATRIX



Mini



0-10V

AC

485

REL

24GHz



Mini-24G-KNX V2



Mini-24G-KNX



Mini-24G-TY



Mini-24G-DALI



Mini-24G-10V



Mini-24G-AC



Mini-24G-485



Mini-24G-REL

ToF



Mini-ToF-KNX V2



Mini-ToF-KNX



Mini-ToF-TY



Mini-ToF-DALI



Mini-ToF-10V



Mini-ToF-AC



Mini-ToF-485



Mini-ToF-REL

High Ceiling



Mini-HCS-KNX V2



Mini-HCS-KNX



Mini-HCS-TY



Mini-HCS-DALI



Mini-HCS-10V



Mini-HCS-AC



Mini-HCS-485



Mini-HCS-REL

PIR



Mini-PIR-KNX V2



Mini-PIR-KNX



Mini-PIR-TY



Mini-PIR-DALI



Mini-PIR-10V



Mini-PIR-AC



Mini-PIR-485



Mini-PIR-REL

PIR Curtain



Mini-PIR-KNX/20 V2



Mini-PIR-KNX/20



Mini-PIR-TY/20



Mini-PIR-DALI/20



Mini-PIR-10V/20



Mini-PIR-AC/20



Mini-PIR-485/20



Mini-PIR-REL/20

R5



485

REL

AC

R1

60GHz



R5-60G-KNX



R5-60G-TY



R5-60G-485



R5-60G-REL

24GHz

485



R1-24G-485

REL



R1-24G-REL

24GHz
Max



R5-24G-KNX/PROG



R5-24G-TY/PROG



R5-24G-485



R5-24G-REL



R5-24G-AC

AC



R1-24G-AC

tuya



R1-24G-TY

24GHz



R5-24G-KNX



R5-24G-TY



R5-24G-485



R5-24G-REL



R5-24G-AC

485



R1-PIR-485

REL



R1-PIR-REL

Radar
Ranging



R5-Rang-KNX



R5-Rang-TY



R5-Rang-485



R5-Rang-REL



R5-Rang-AC

PIR

AC



R1-PIR-S1

tuya



R1-PIR-TY

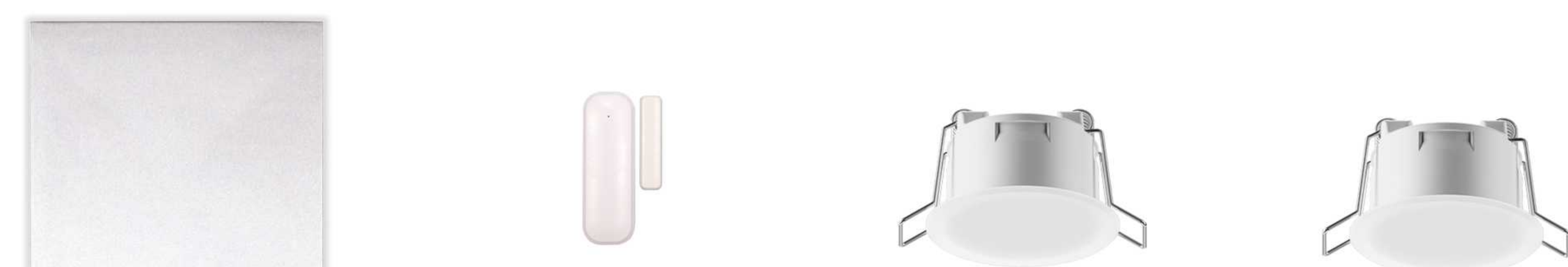
PRODUCT MATRIX



Industrial Radar



3+1 ECO Master Control Set



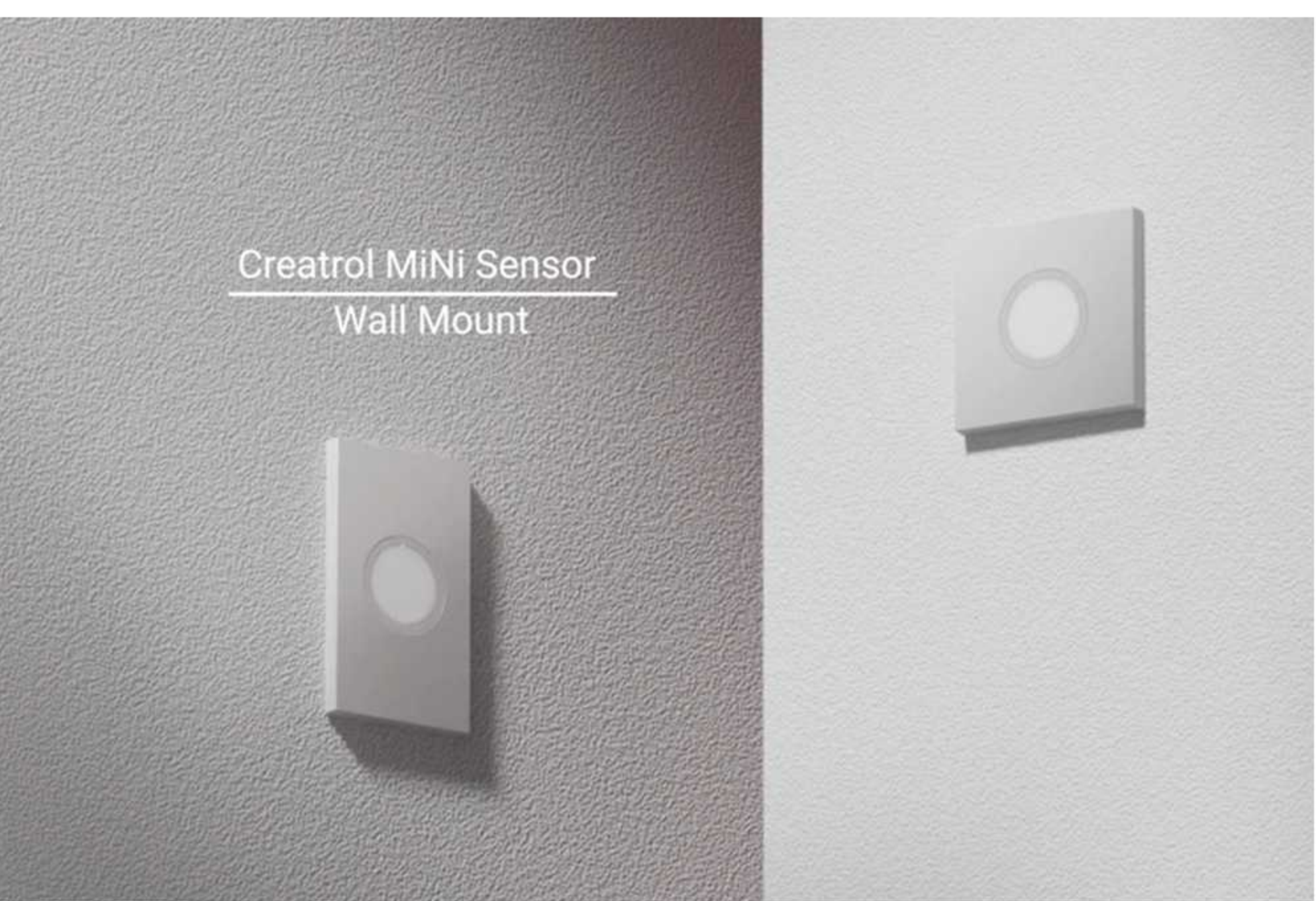
Power Supply Module Door Magnetic Sensor 24GHz Sensor 24GHz Sensor

Mini Install Accessories



86 Panel Frame Large Cover Ring Surface Mounted Borderless Embedded Universal Bracket

Mini Sensor Installation





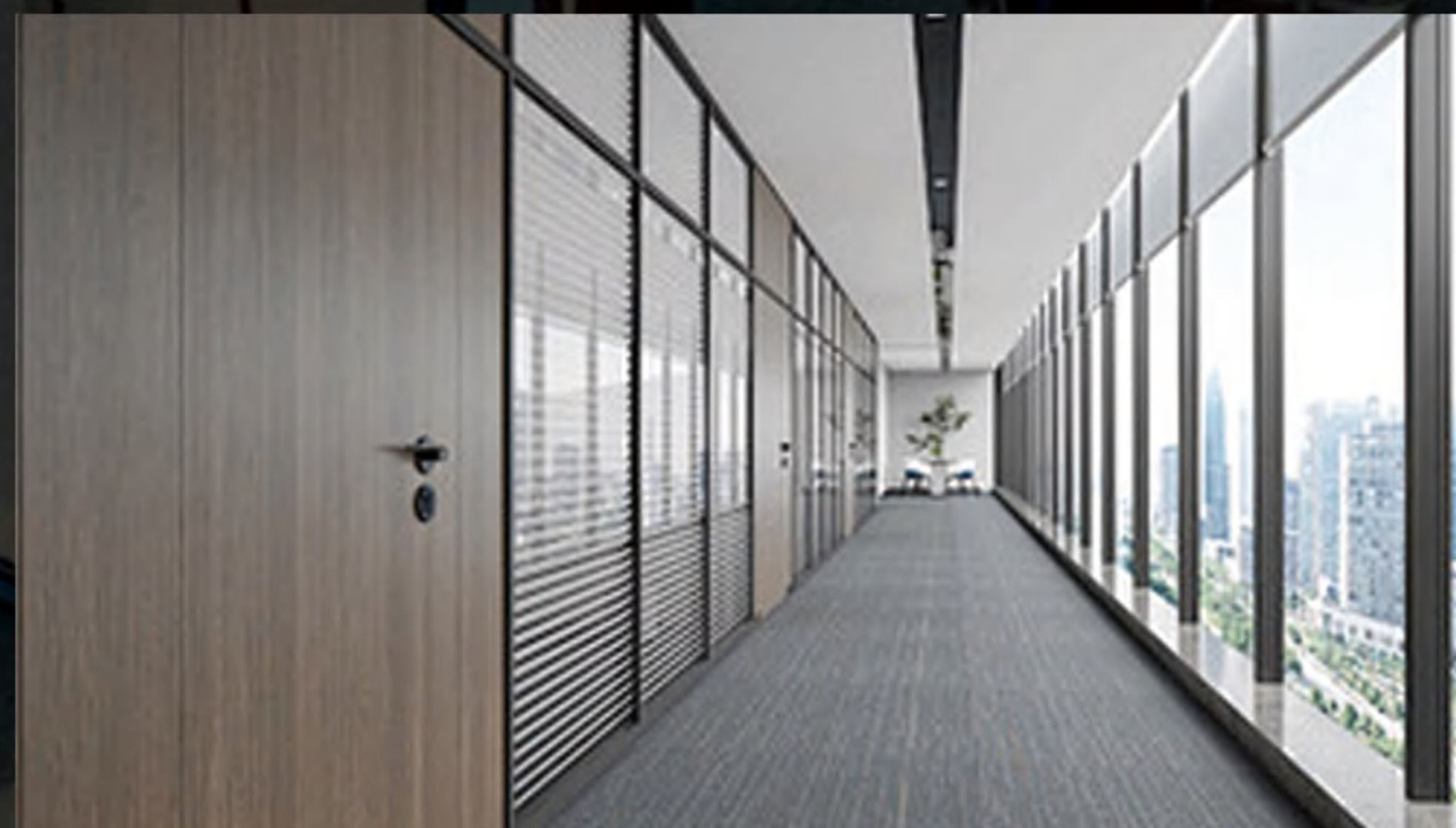
Workstation Sensing



Restroom Occupancy



Meeting Occupancy Counting



Long Corridor Sensing



Illumination Sensing



Energy Management

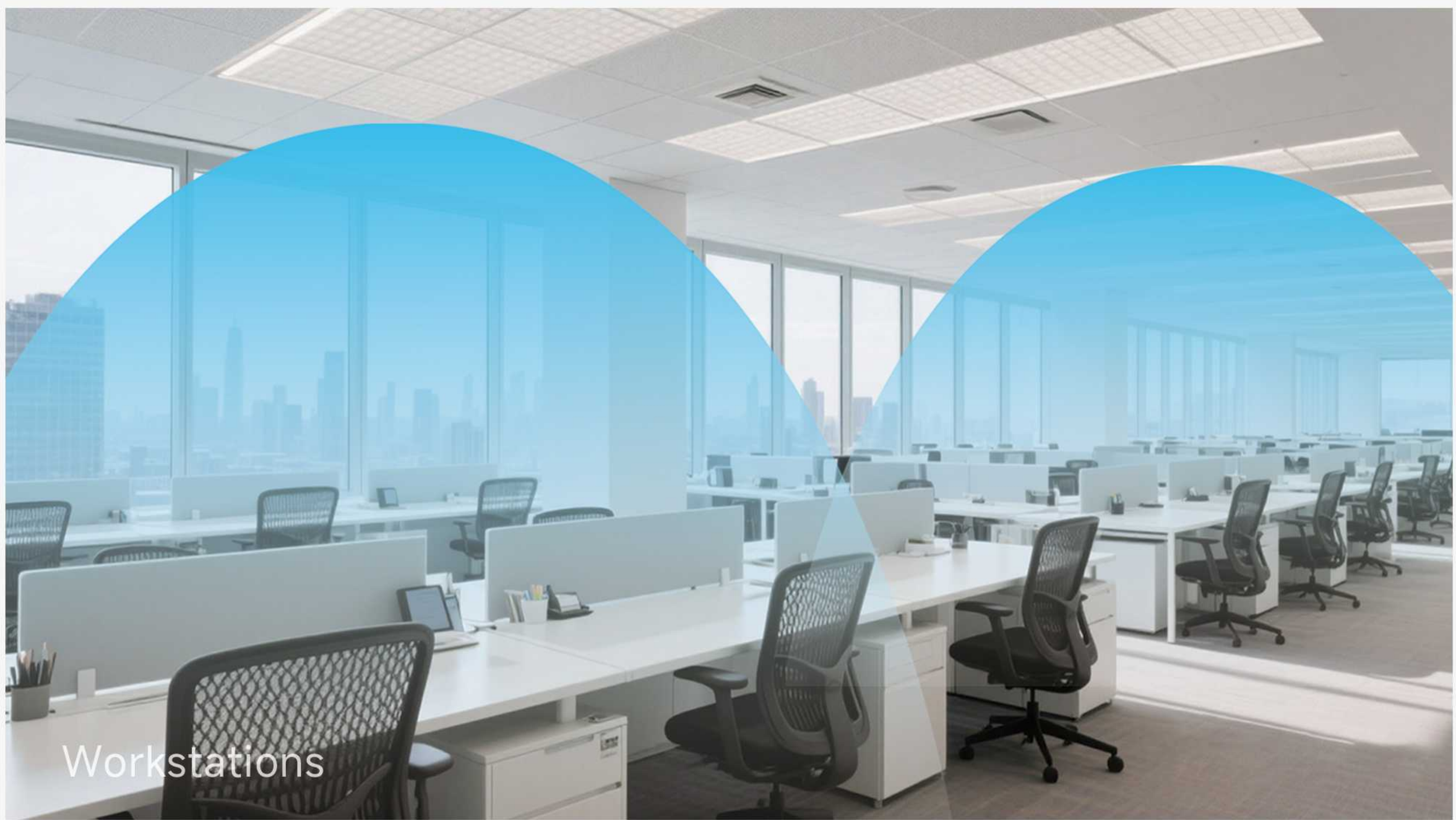
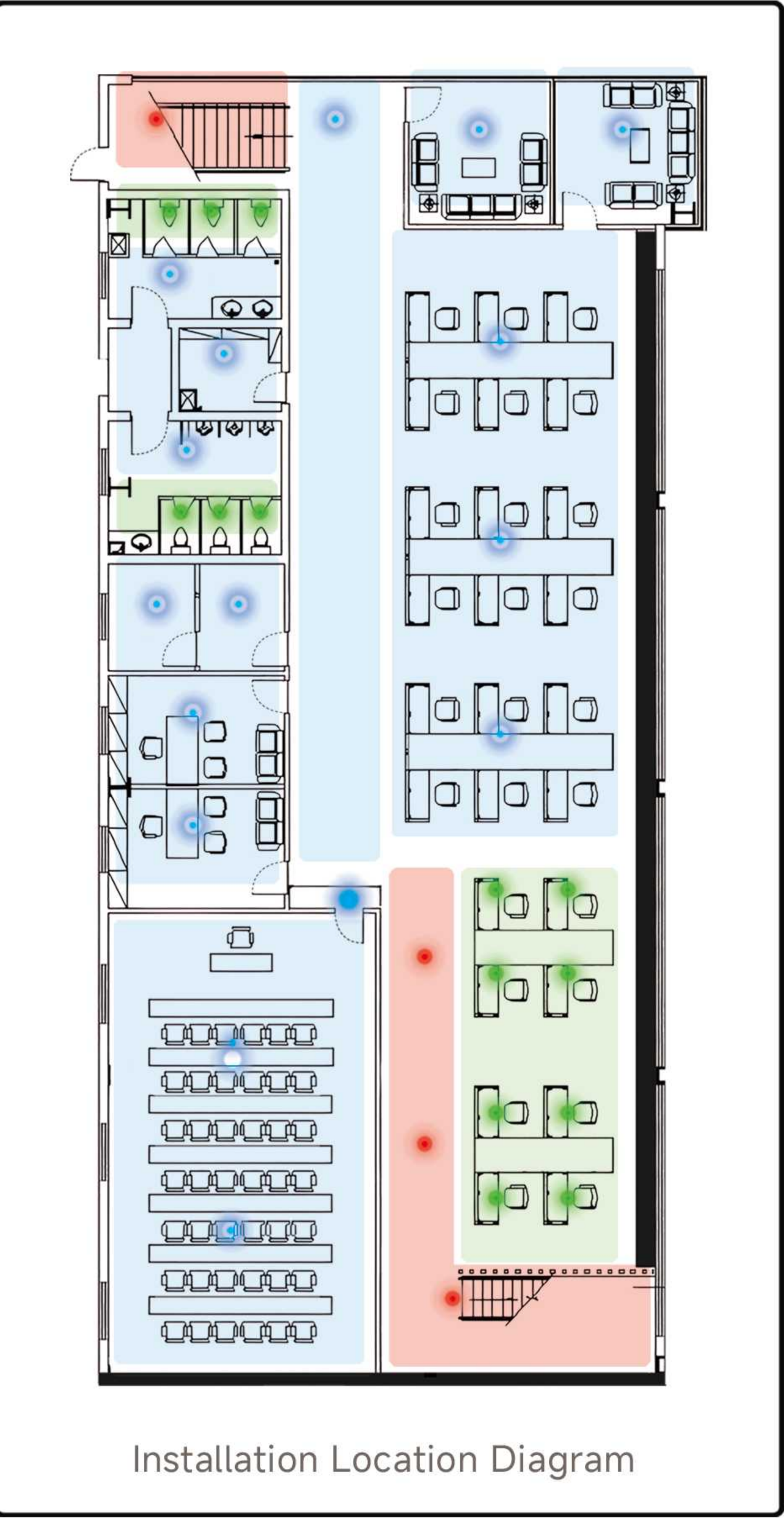
Smart Office

Office Buildings, Shared Workspaces, Corporate Campuses,
Technology Parks, Government Office Buildings...

Smart Office

Energy Efficiency and Productivity Enhancement,
Where Efficiency Meets Comfort

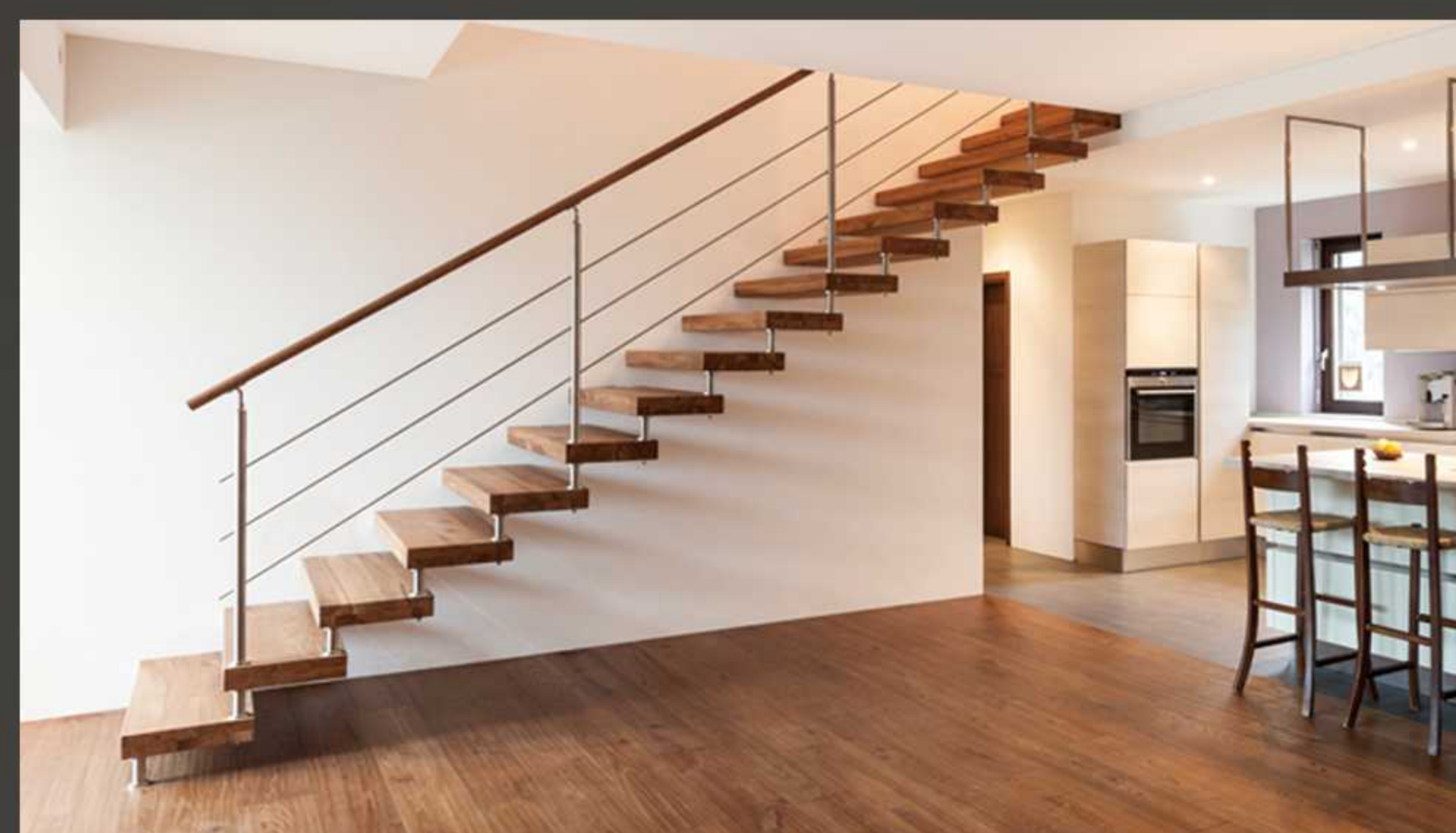
- Meeting Rooms - 【60GHz Count Radar】
- Office Spaces - 【24GHz Presence Radar】
- Workstations - 【ToF Ranging Sensor】
- Hallways/Stairwells - 【PIR Sensor】
- Long Corridors - 【60GHz Ranging Radar】



Smart Home



Presence Detection



High-Ceilinged Spaces



Entryway Automation



Night Activity Monitoring



Home Security



Bathroom Fall Detection

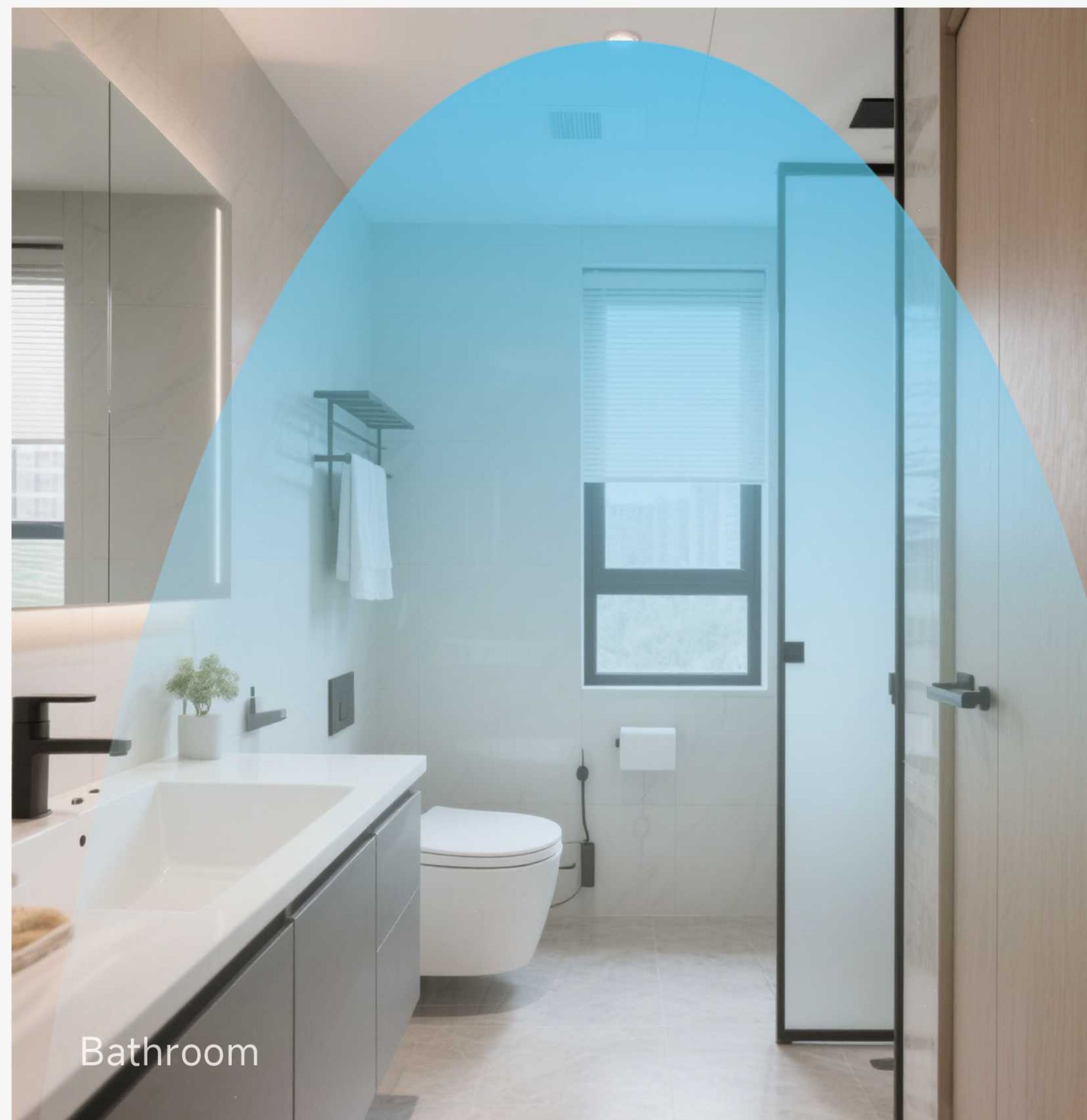
Smart Home

Flat Apartments, Villas, Loft Apartments, Finished Residences...

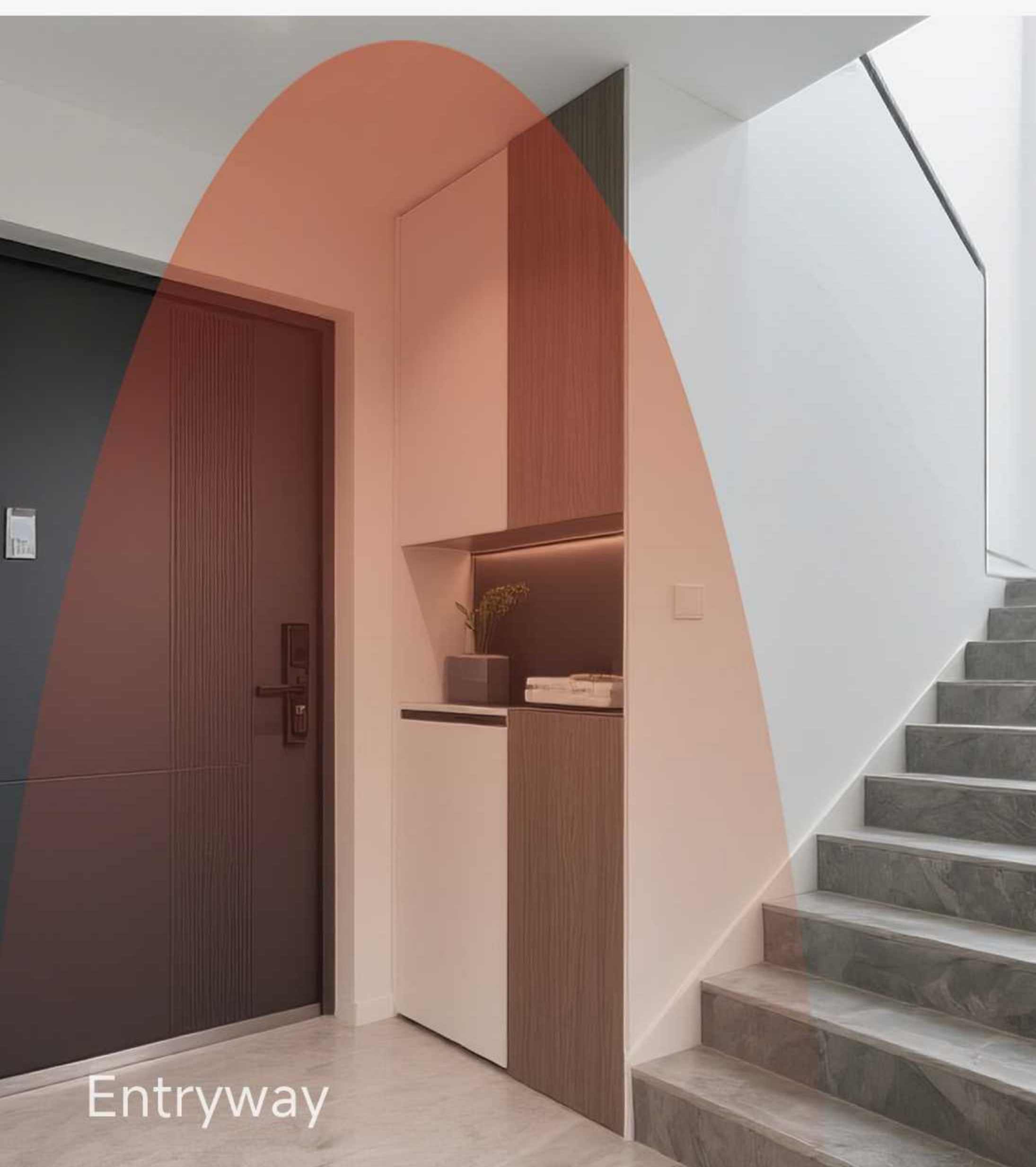




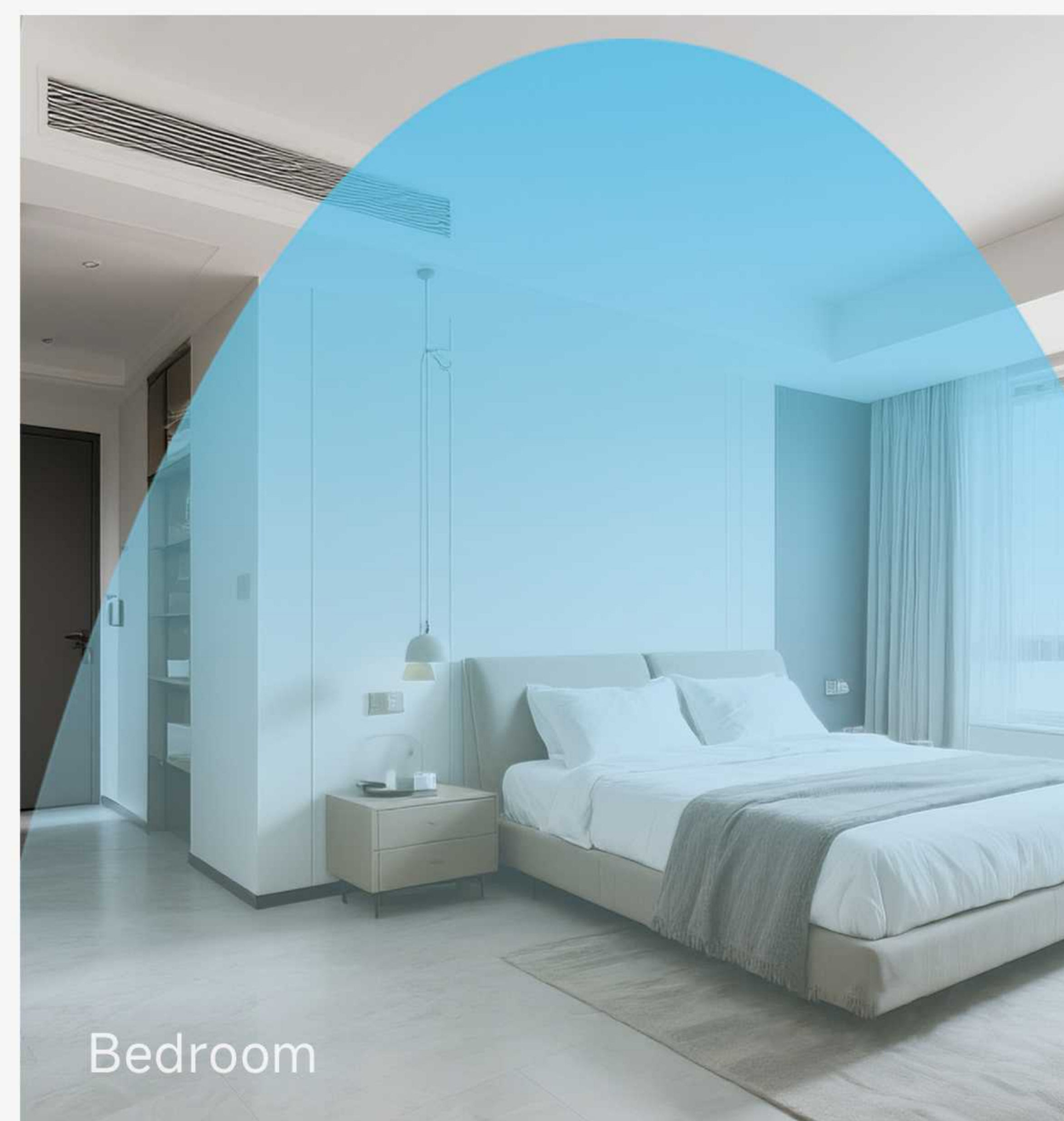
Living Room



Bathroom



Entryway



Bedroom

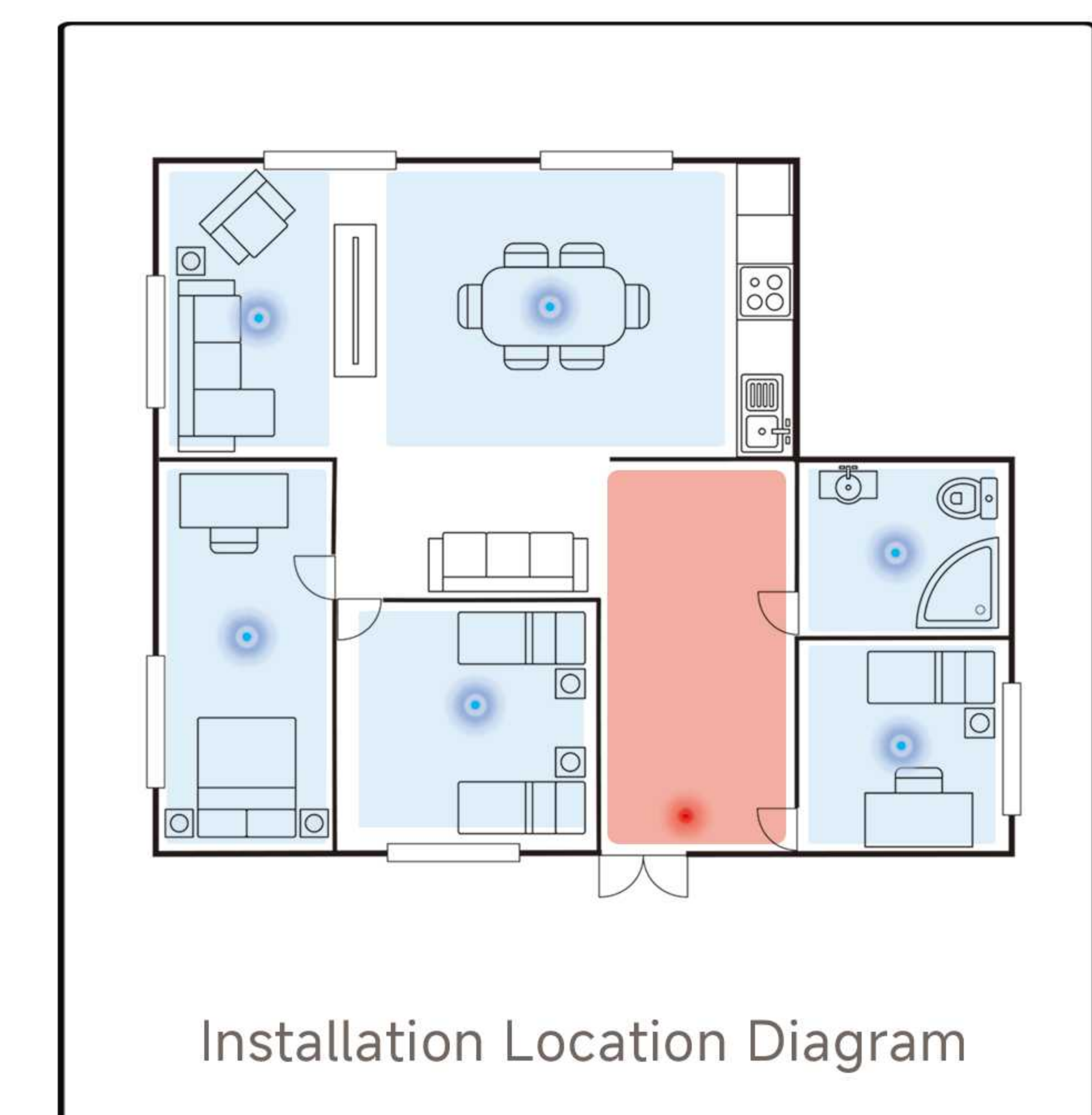


Study

Smart Home

Making Your Home 「Understand」 Your Breath

- Bedroom/Bathroom - 【60GHz AI-Enhanced Radar】
- Entryway/Stairwell - 【PIR Sensor】
- Living Room/Study - 【24GHz Presence Radar】





Card-free Power Activation



Bathroom Fall Detection



Room Occupancy Counting



Energy Management



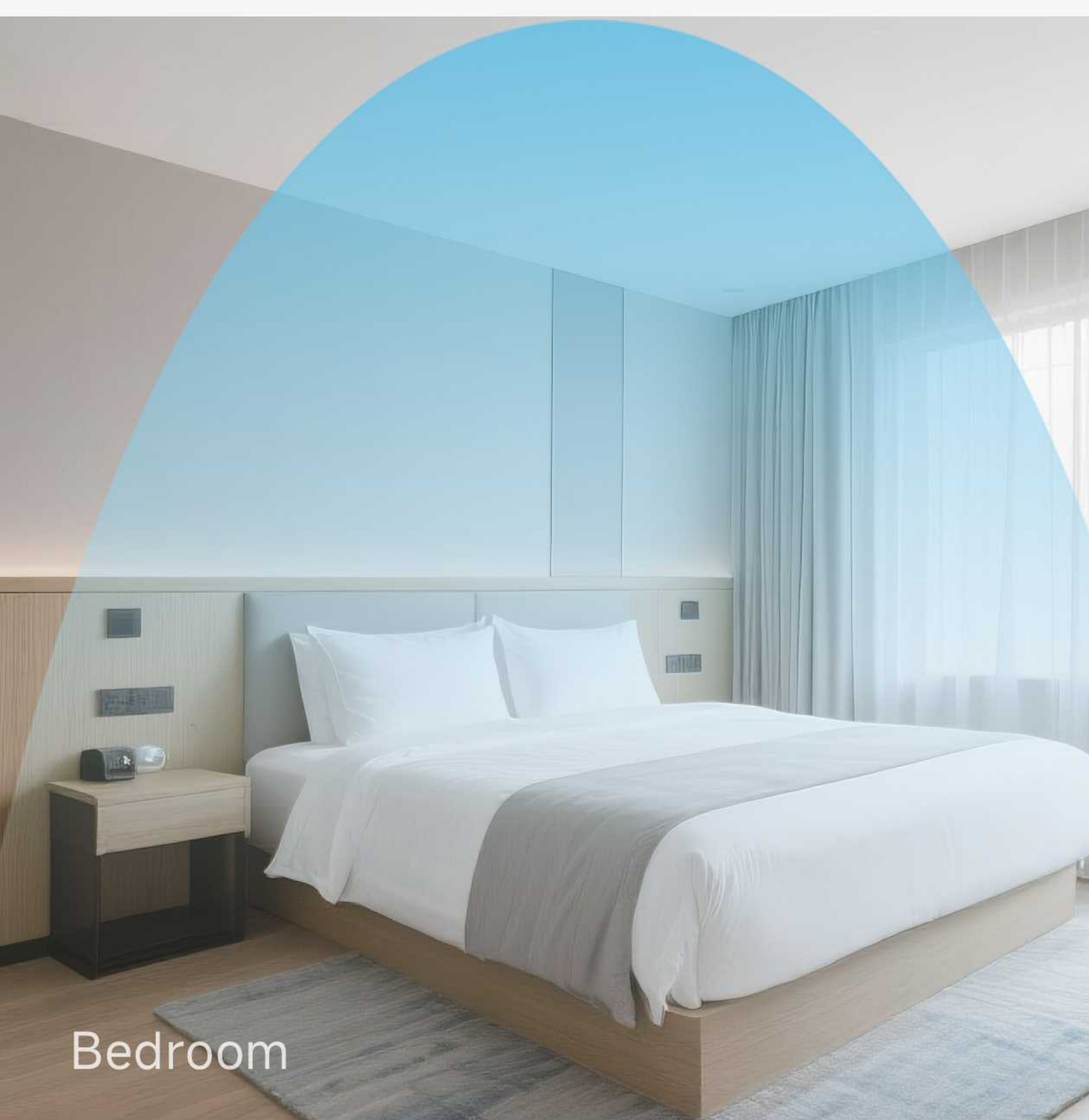
Public Area Lighting



Privacy Security

Smart Hotel

Star-rated Hotels, Business Chain Hotels,
Resorts, Boutique B&Bs, Serviced Apartments...



Bedroom



Entryway



Bathroom

Smart Hotel

Precise Sensing, Cost Reduction and Energy Conservation

- Guest Rooms - **【3+1 ECO Master Control Set】**
- Hallways/Stairwells - **【PIR Sensor】**
- Optional Configurations
 - **【60GHz AI-Enhanced Radar】**
 - **【60GHz Count Radar】**



Installation Location Diagram

Smart Lighting



Dynamic Dimming



Interactive Lighting



Illumination Sensing



Restroom Occupancy



High-Bay Lighting



Parking Detection

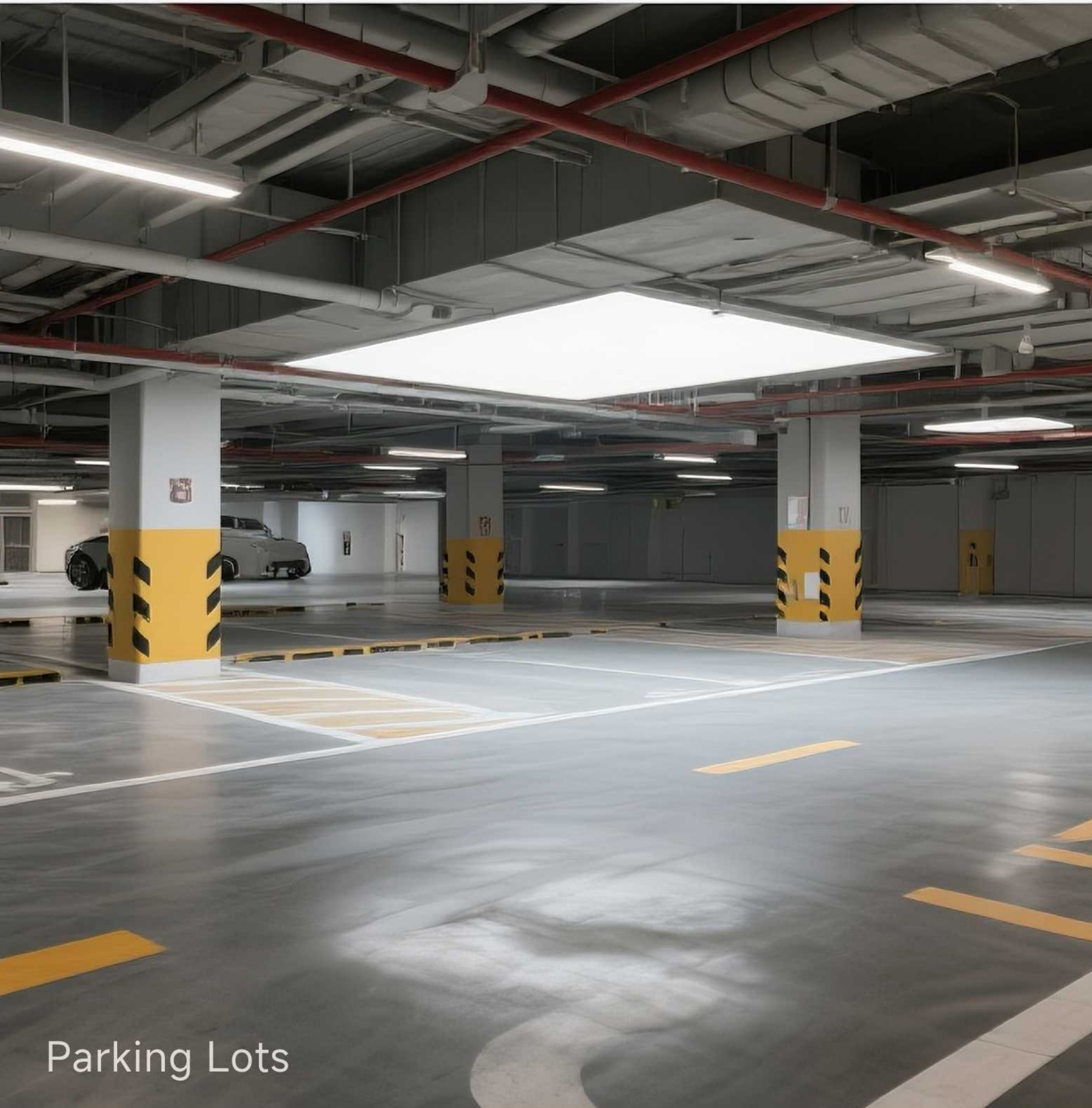
Commercial Lighting

Shopping Malls, Commercial Complexes, Flagship Stores,
Art Exhibitions, Auto Showrooms...

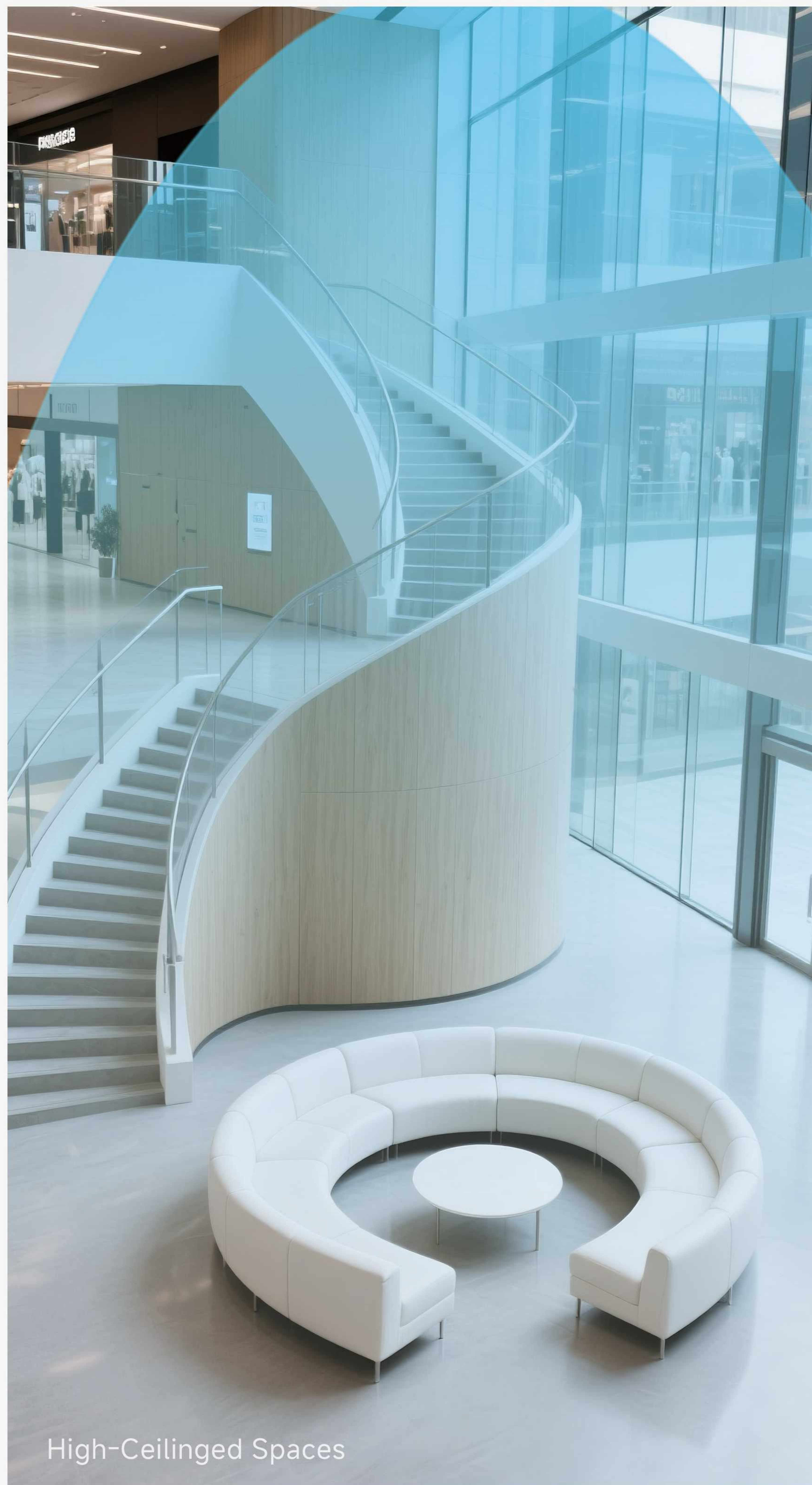




Art Galleries



Parking Lots

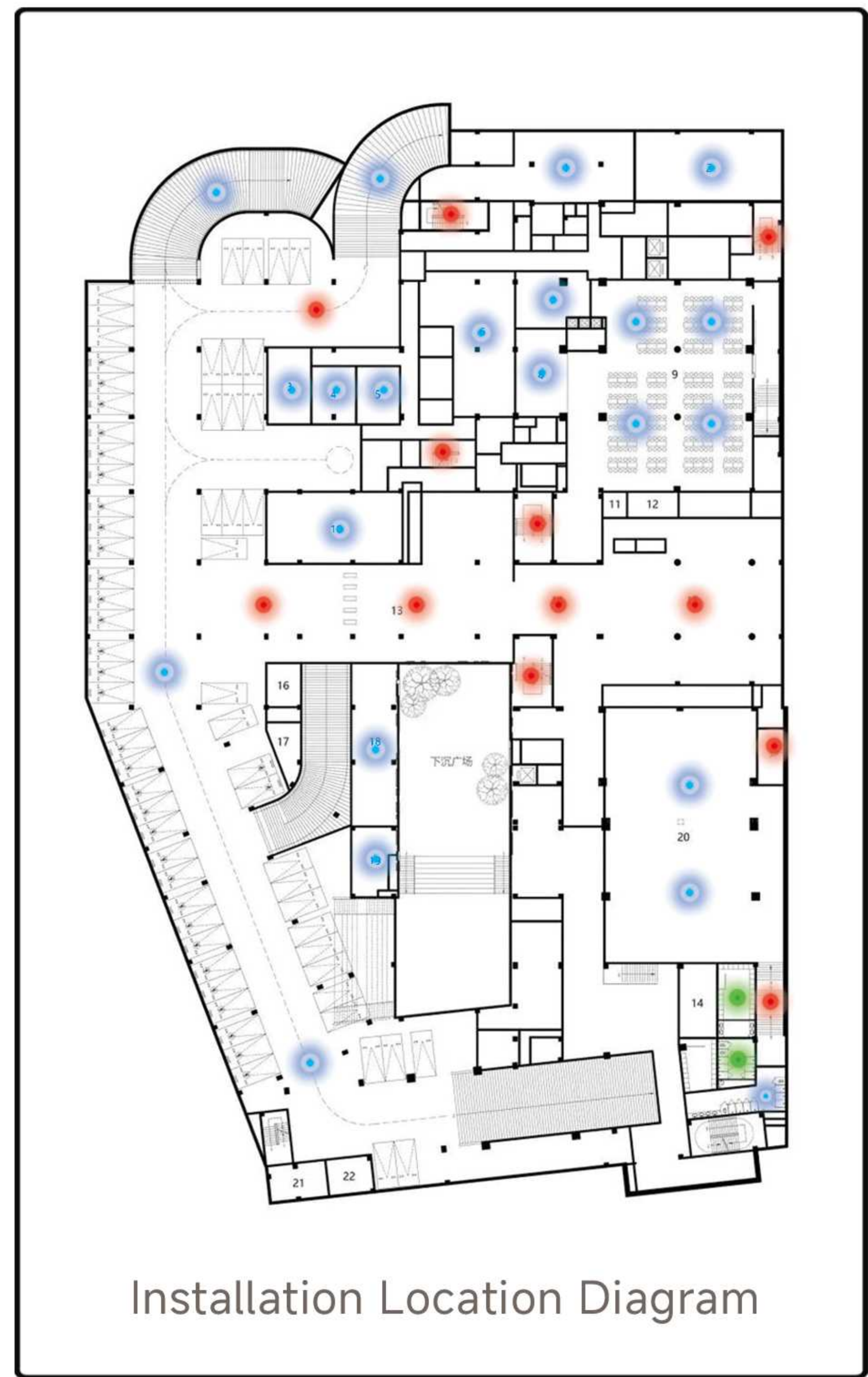


High-Ceilinged Spaces

Commercial Lighting

Accurate Detection, Precise Light Control

- Public Restrooms - 【ToF Ranging Sensor】
- Stairwells/Parking Lots - 【PIR Sensor】
- Rest Areas/Workrooms - 【24GHz Presence Radar】
- High-Ceilinged Spaces - 【High-Ceiling Radar】



Installation Location Diagram



Fall Monitoring



Area Departure Detection



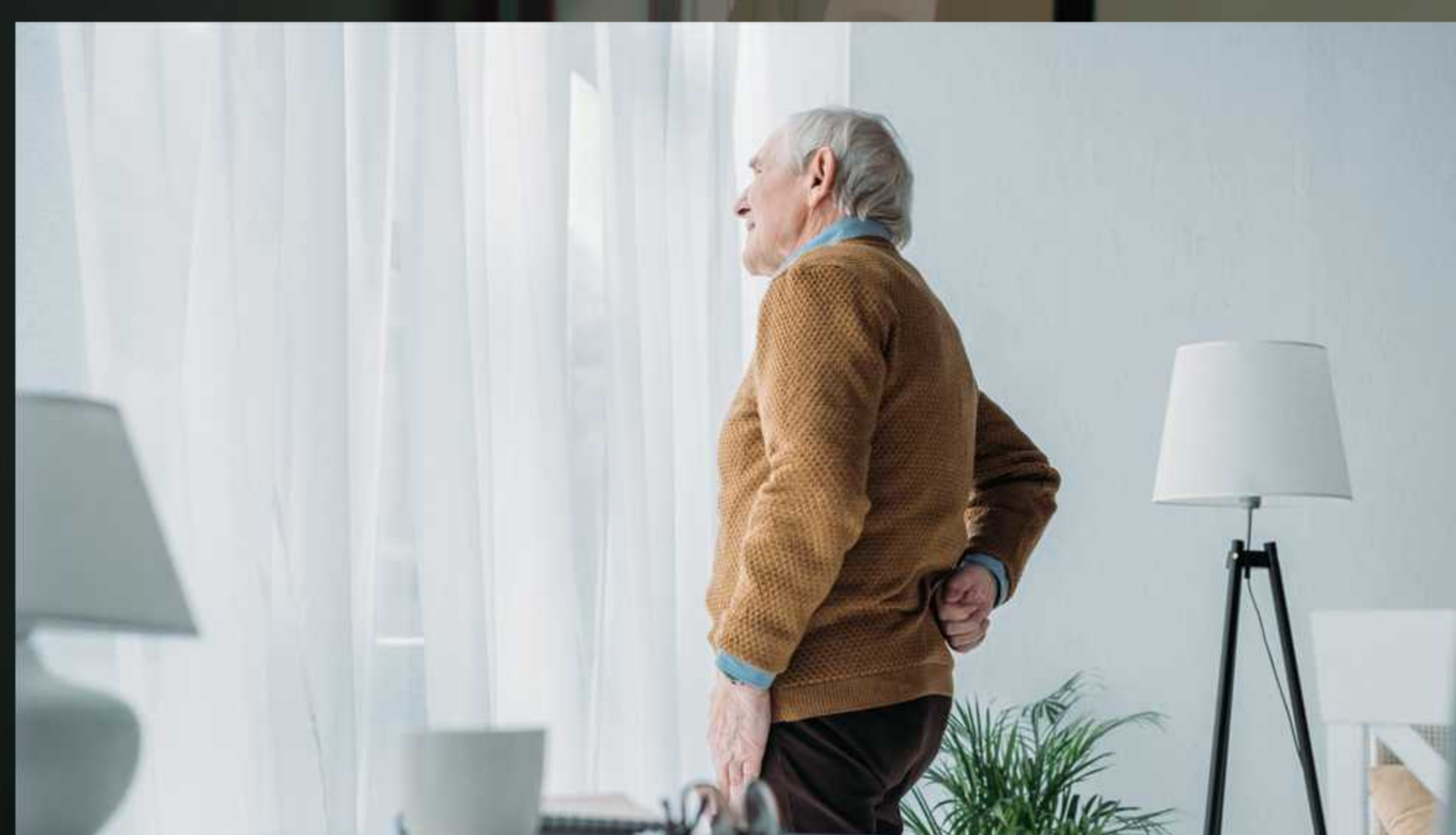
Night-time Activity Sensing



Bed Exit and Return Detection



Abnormal Loitering Detection



Posture Detection

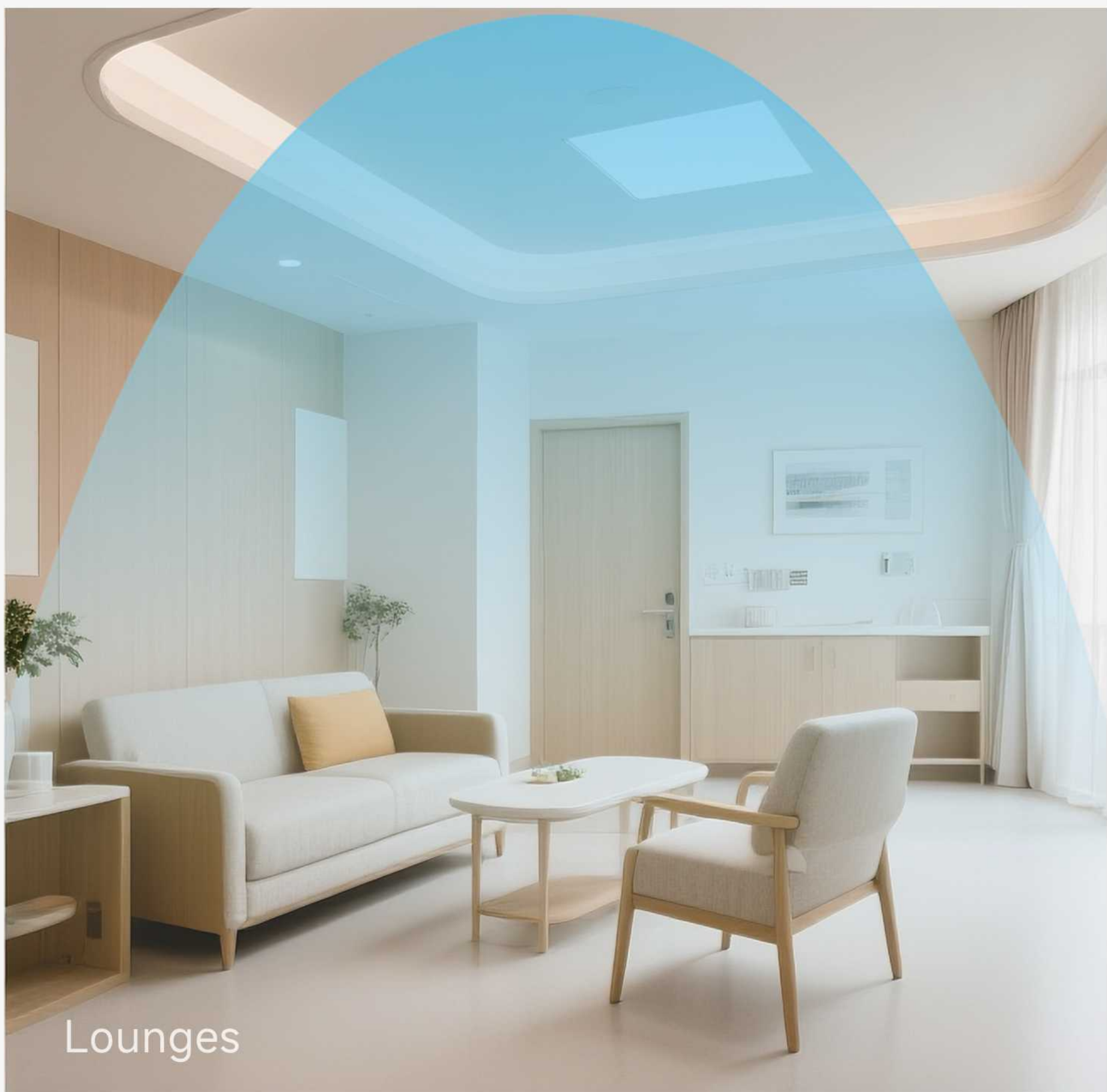
Smart Elderly Care

Residences, Nursing Homes, Senior Communities,
Care Facilities, Senior Universities...





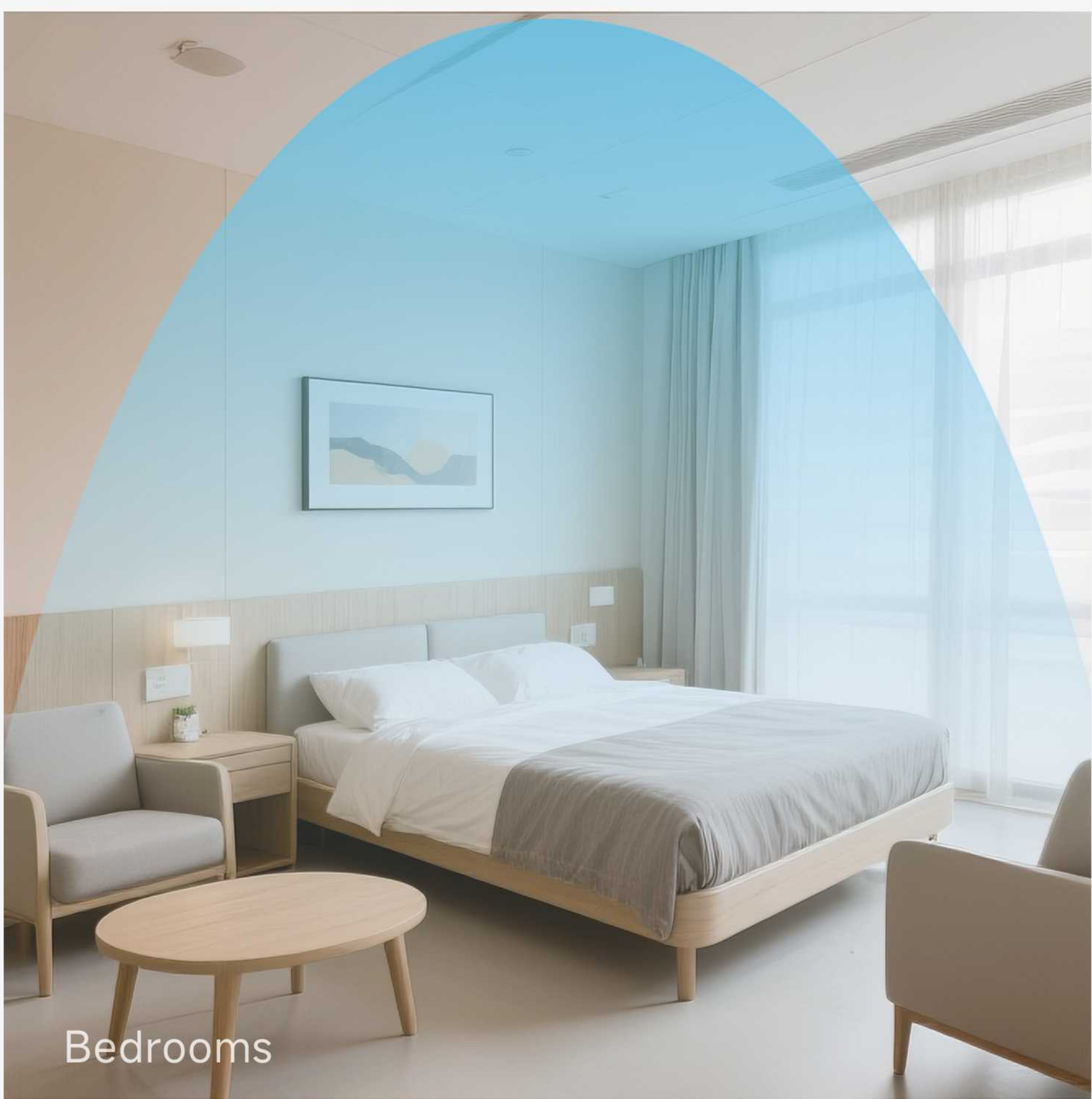
Bathrooms



Lounges



Lounges

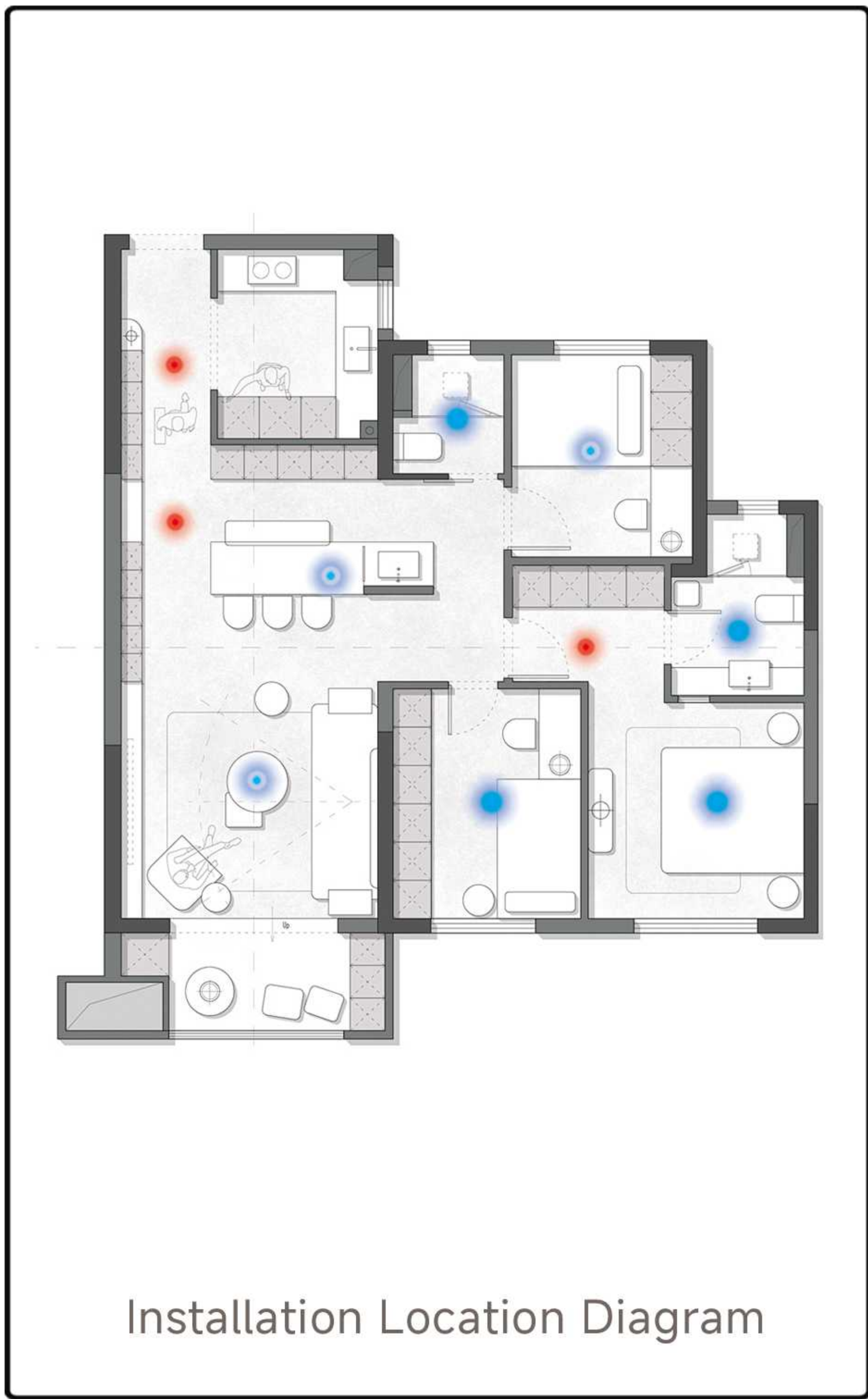


Bedrooms

Smart Elderly Care

Care Hidden in Unseen Protection

- Bedroom/Bathroom - 【60GHz AI-Enhanced Radar】
- Hallways/Stairwells - 【PIR Sensor】
- Rest Areas/Workrooms - 【24GHz Presence Radar】



Installation Location Diagram



Classroom Management



Energy-Efficient Lighting



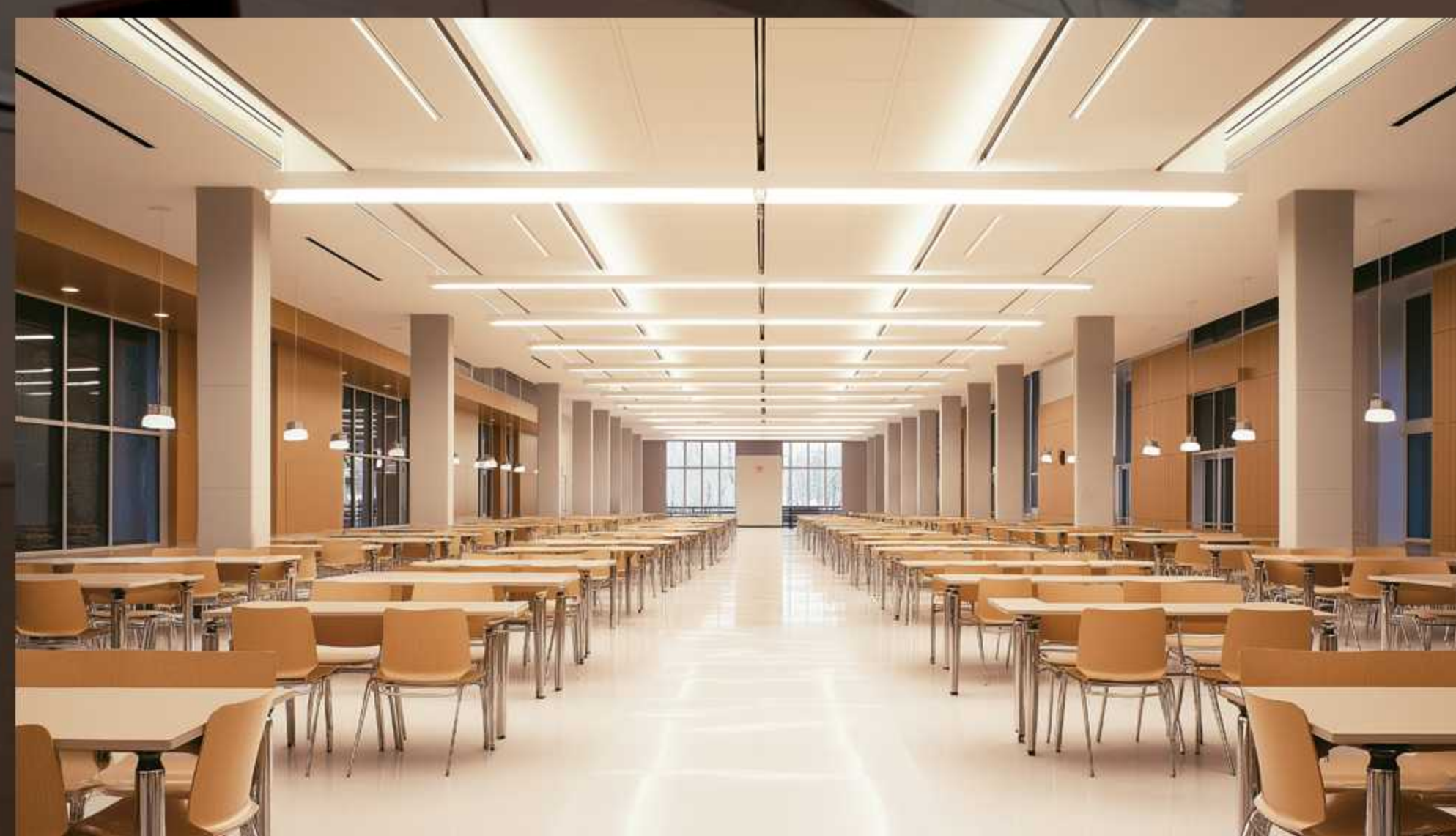
High-Bay Lighting



Libraries



Corridor Lighting



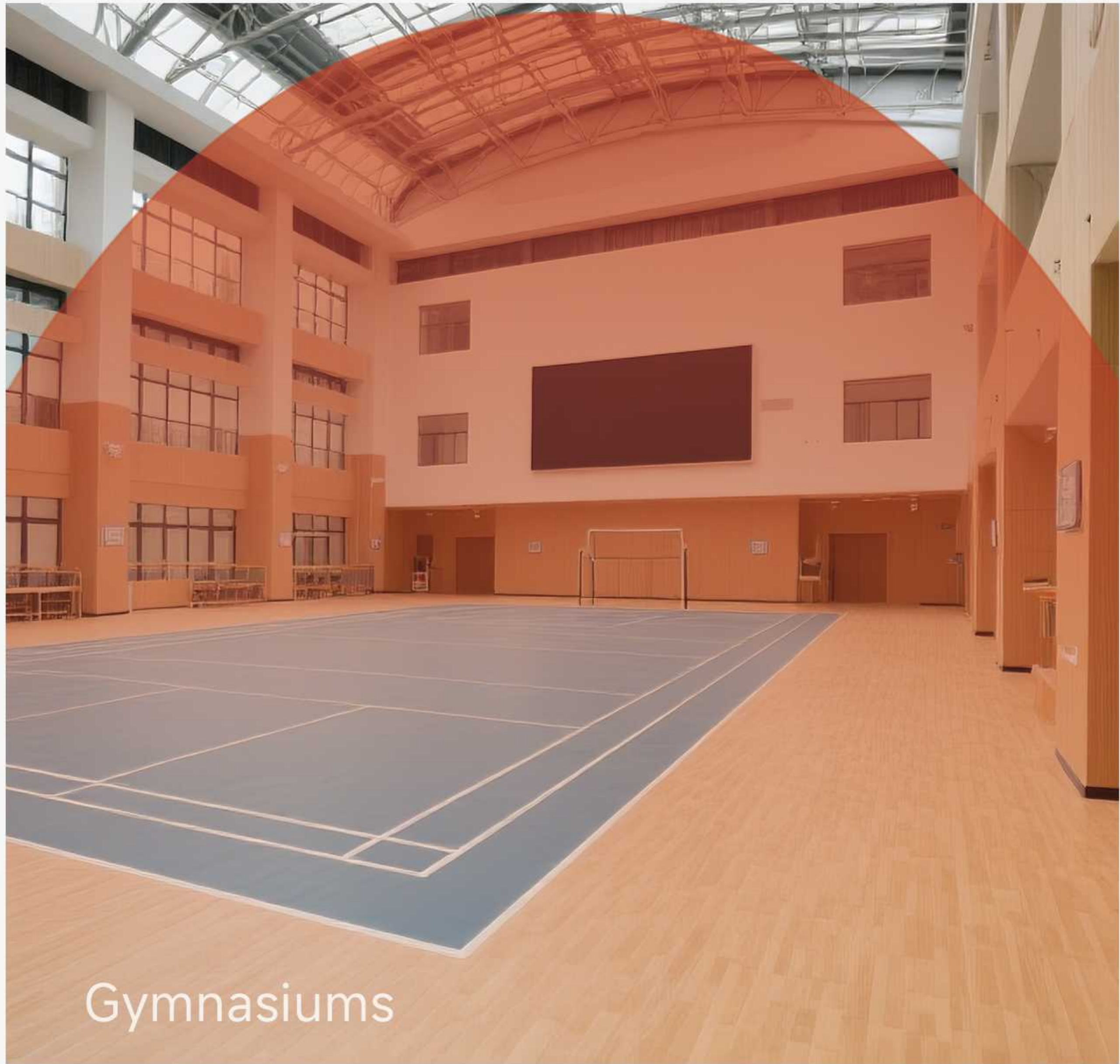
Cafeteria Lighting

Smart Campus

Kindergartens, Primary/Middle/Universities, Vocational Training Centers,
International Schools, Special Education Schools...



Lecture Halls



Gymnasiums

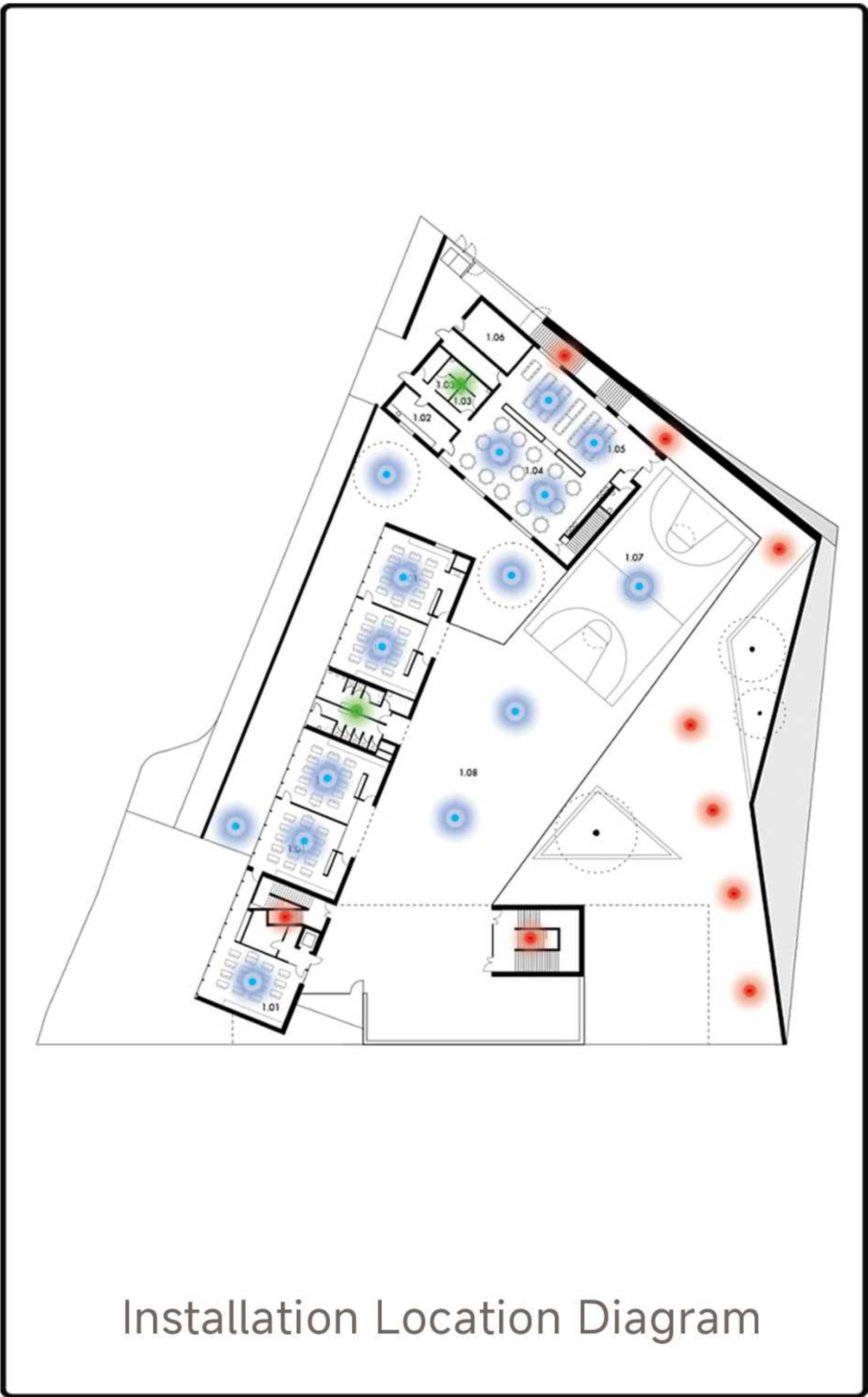


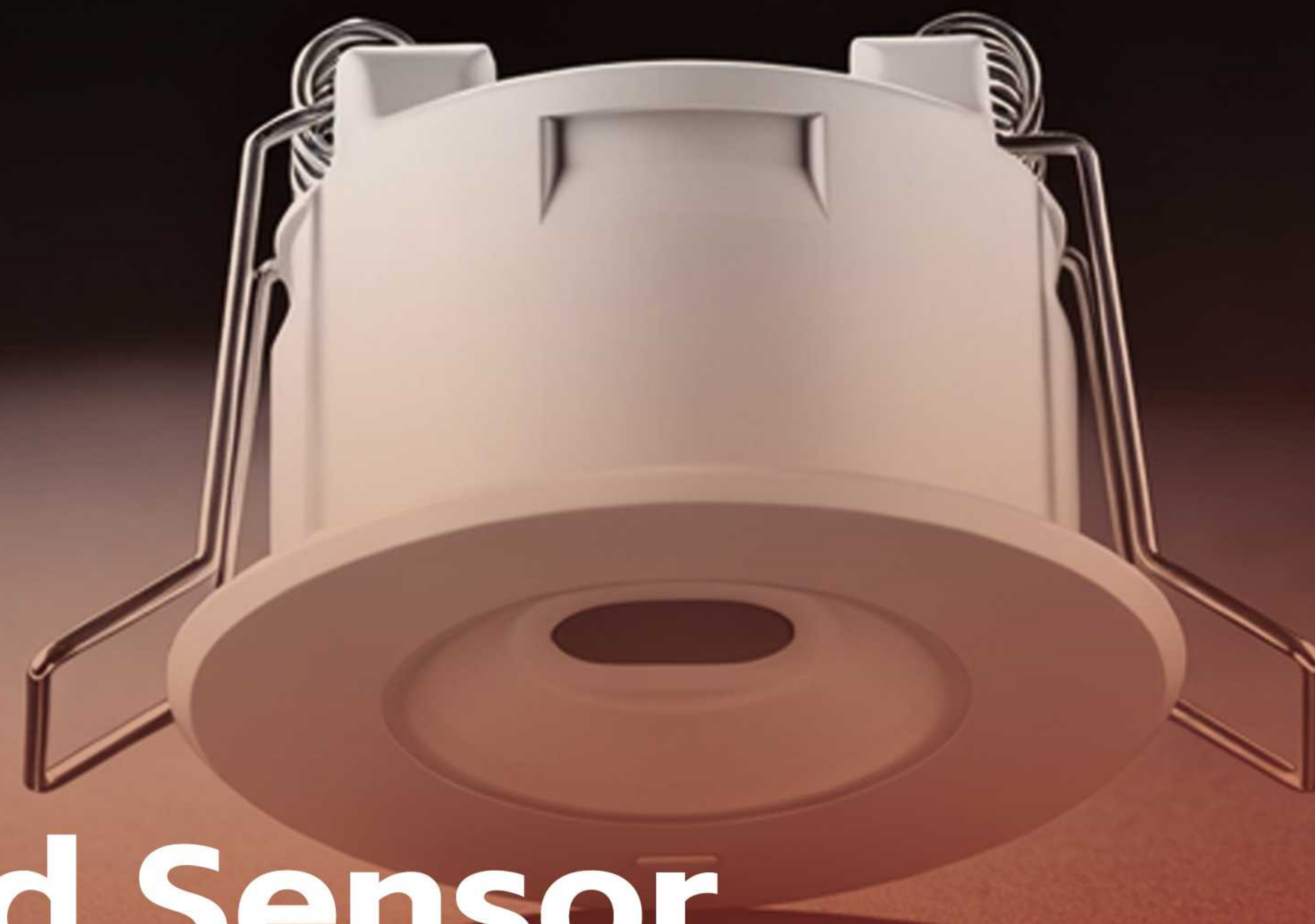
Corridors

Smart Campus

Accurate Detection, Precise Light Control

- Workstations/Restrooms - 【ToF Ranging Sensor】
- Classrooms/Libraries - 【24G Presence Radar】
- Hallways/Stairwells - 【PIR Sensor】
- Gymnasiums/Dance Studios - 【High-Ceiling Radar】





Human-Centered Sensor, Seamless Intelligence, Trust the Creatrol Sensor!

True Radar · Intelligence Understanding · All Scenario

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Contact us for a sample with demo price now!



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