



BLE Topology Networking

Supported by HX-based Bluetooth Smart Firmware and Protocol Stack, compliant with Bluetooth v5.0 LE Standard

Product Features



Wi-Fi+BLE Dual-Mode

Dual-core microprocessor supporting 2.4 GHz Wi-Fi (IEEE 802.11b/g/n) and Bluetooth® 5 (LE)



Communication Method

Wireless Mesh Networking



Overall Dimensions

L127 × W87 × H45 mm Weight: 200g



Material

ABS
Industrial-grade IP68
Water & Dust Resistance





CODE: HK-HDSO

Hand Soap Level Sensor

The Hand Soap Level Sensor is a smart hygiene monitoring device designed to detect liquid soap levels in dispensers with high-precision capacitive sensing. Using capacitive sensing technology, it supports adaptive segmented monitoring and automatically adjusts detection intervals based on usage patterns. This ensures timely refill alerts and helps maintain consistent hygiene standards.



Product Features



Sensing Method

Capacitive Liquid Level Sensing



Liquid Deficiency Detection

- Supported
- Adaptive Liquid Level Monitoring



Features

Split Design Low Battery Alert Universal Liquid Compatibility



Detection Interval

- 5 Minutes/Cycle (Default)
- Platform Allows Custom Monitoring
- Automatically Resets Settings After Refill
- Self-Learning Function



Detection Specifications

- Adaptive Segmented Liquid Level Monitoring
- Automatically Adjusts Detection Intervals



Overall Dimensions

565 x 565 x 19mm



Communication Method

Bluetooth BLE





Dust Bin Sensor



A smart waste-level monitoring device designed to optimize cleanliness and maintenance in public and commercial restrooms. It provides real-time updates on bin fill levels, helping facility managers schedule timely waste collection and reduce overflow incidents.

Product Features



Modular Design

Supported Detachable



Detection Frequency

Configurable via cloud platform



Low battery alert

Supported



Overall Dimensions

565*565*19mm



CODE: HK-TOPD

Toilet Paper Detector

A smart sensing device combines traditional manual-pull dispensing with advanced IoT sensing technology. It enables real-time monitoring of tissue levels, allowing facility managers to manage restocking and reduce maintenance downtime proactively. Featuring high-precision laser detection, remote alerts, and data visualisation, the dispenser ensures an uninterrupted user experience while maintaining operational efficiency. Ideal for high-traffic restrooms and smart facility management systems.





Paper Dispensing Method Manual Pull



Communication Method Bluetooth BLE



Overall Dimensions 565*565*19mm



Detection Frequency 5 minutes/cycle (configurable via platform)



Detection Range ≤ 510 mm



Detection Precision (Granularity) 10mm







CODE: HK-OCSE

Occupancy Sénsor

The Occupancy Sensor is a precision detection device designed to monitor toilet cubicle usage in real time. Using active laser scanning technology, it identifies occupancy status with high accuracy and responsiveness, helping facility managers optimize cleaning schedules and reduce wait times.

Product Features



Sensing Method Active



Toilet Occupancy Response Cycle Approx. 3-4 seconds



Detection Accuracy (Granularity) 100-130mm



Communication Method **Bluetooth BLE**



Overall Dimensions 565*565*19mm



CODE: HK-PPCO

People Counter

The Intelligent Bi-Directional People Counting Sensor integrates advanced sensing technologies and backend monitoring capabilities to accurately track people entering and exiting designated areas. It is designed to address key requirements such as privacy protection, environmental adaptability, and robust data management, making it ideal for high-traffic environments like restrooms, building entrances, and public facilities.





Functionality

Tracks number of entries and exits, ideal for restroom usage monitoring



Counting Direction

Bi-directional (entry/exit)



Depth Map Resolution

120×90 pixels



Detection Technology

Video analytics with 3D machine vision and trajectory tracking algorithms



Detection Method

ITOF-based area array 3D camera module



Detection Range

0.6 - 5 meters



Frame Rate

Depth Map Output: 5fps / 10fps / 15fps (default: 15fps)

Optional:

Depth and Amplitude Data Output



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CODE: HK-ARQL

Air Quality Sensor

The Air Quality Sensor is a compact and intelligent monitoring device designed to measure key indoor air pollutants in real time. It detects CO₂, TVOC, TVOC-AQI, and formaldehyde (CH₂O) levels with high precision, helping maintain a healthy and safe restroom environment.

Product Features



Monitoring Capabilities

- PM2.5
- Humidity
- Oxygen (O₂)
- Temperature
- Ammonia (NH₃)
- Hydrogen Sulfide (H₂S)



Dimensions

85×85×50mm



Communication Method

Bluetooth Low Energy (BLE) Networking



Data Reporting Interval

Configurable via cloud platform



Temperature

Range: -40°C to +125°C

Accuracy: ±0.2°C (within 0-65°C)

Resolution: 0.01°C

Oxygen (O2)

Measurement Range: 0-30% VOL Recommended Operating

Range: 19.5-23.5% VOL

Humidity

Range: 0-100% RH Accuracy: ±2% RH

Resolution: 0.01% RH

Hydrogen Sulfide (H2S)

Range: 0-100 ppm Resolution: 0.01 ppm

Accuracy: ±1%

Ammonia (NH3)

Range: 0–100 ppm Resolution: 0.01 ppm

Accuracy: ±1%







Ammonia (NH3)
Detection Range
0-100ppm



Humidity Range



Temperature Range -40°C to 125°C



Data Reading Frequency

Platform-configurable monitoring interval



Overall Dimensions

85*85*50mm



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Product Features



Hydrogen Sulfide (H2S) **Detection Range** 0-100ppm



Humidity Range 0-100%RH



Temperature Range -40°C to 125°C



Data Reading Frequency Platform-configurable

monitoring interval



Overall Dimensions 85*85*50mm







Technical Features

Low battery reporting Adaptive capacitive sensing



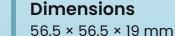
Functionality

- Water accumulation detection
- Low power consumption
- High detection accuracy
- Fully sealed design
- Waterproof capability



Detection Method

Capacitive sensing Frequency Range: 1 MHz - 40 MHz





Communication Method

Bluetooth BLE Mesh Networking



Material

Flame-retardant ABS housing





Function
Contactless and proactive attendance tracking



User Data Fields

- Name
- Position
- Job Role
- Service Area
- Service Hours
- Contact Information
- Etc.



Communication Method

Bluetooth BLE Mesh Networking



Power Supply

3.7V 650mAh Lithium-Ion Battery





Air Refresher Diffuser

The Air Refresher Diffuser is a smart scent control device designed to enhance restroom environments with automated fragrance dispersion. Interoperable with air quality sensors, it enables precision mist output based on real-time air condition data, ensuring a consistently fresh and pleasant atmosphere.

Product Features



Coverage Area

Up to 200 m²



Essential Oil Capacity

150 ml



Power Supply

DC 5V / 1A

3 × AA batteries

3.7V Lithium Battery (optional)



Material

PP / POM



Dimensions

195 mm × 140 mm

Weight: 350 g





CODE: HK-SOSB-V

SOS Emergency Alert Device

The Smart SOS Emergency Alert Device is an emergency assistance system that enables rapid response through one-touch activation and voice recognition. It supports voice broadcast through a built-in speaker and connects to a data center for coordinated response, enhancing user safety.

Product Features



Activation Methods

Voice recognition (supports Chinese and English)
Physical push-button trigger



Communication Methods

Wireless Mesh networking Wi-Fi LoRa with self-organizing network support



BLE Mesh Networking

Based on HX Bluetooth firmware and protocol stack Complies with Bluetooth v5.0 LE standard



Alert Broadcast

Voice alerts via built-in speaker Linkage with data center systems



Operating Temperature

20°C to +105°C



Dimensions

126 × 80 × 37 mm



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Product Features

Powerful Odor Removal

This device combines both active and passive deodorization technologies, achieving an odor removal rate of over 90% in a 30 m³ space within just one hour.

Highly Effective Sterilization

With a power consumption of only 20W, it is energy-efficient and cost-effective. Only the plant fragrance cartridge and medium-efficiency filter need replacement every three months; other parts require only periodic cleaning.

Five-Stage Air Purification

Equipped with five layers of purification:

- Medium-efficiency particulate filtration
- High-energy ion deodorization
- Active oxygen ion deodorization
- Plasma catalytic purification
- Plant-based liquid deodorization

Highly Effective Sterilization

Utilizing advanced ion sterilization technology, it delivers a sterilization rate of over 95% in a 30 m³ space in one hour.

Easy to Use and Maintain

Designed for wall-mounted installation, it saves space and is easy to operate with a one-touch start. The purification unit features a modular, drawer-style structure for quick cleaning and maintenance.

Six Advanced Core Technologies

Incorporates six cutting-edge technologies to ensure superior deodorization and sterilization:

- High-energy ion deodorization
- Ion sterilization
- Active oxygen ion deodorization
- Plasma catalytic purification
- Plant-based liquid odor neutralization





CODE: HK-INFP

Interactive Feedback Panel



The Interactive Feedback Panel is a user-friendly device designed for places like public restrooms to gather feedback, and report issues, helping facility managers improve maintenance. The panel also plays promotional videos or images. It's built to work reliably in various lighting and temperature conditions, and with internet connectivity and remote update options, it offers flexibility and convenience for content management.

Product Features



Functions

Supports custom functions:

- Collects user feedback through satisfaction surveys
- Plays advertisements in video or image format
- Allows for customized fault reporting functionality



Dimensions

225W × 172H × 26D mm Weight: 850g



- Mounting
 Wall-mounted.
- VESA 75mm / 100mm
- Recommended height: 150 cm



Environmental Durability

- Anti-light Interference:
 Operates reliably under direct sunlight, incandescent, and fluorescent lighting
- Surface Hardness:
 - Chemically tempered explosion-proof glass
 - Mohs hardness level 6
- Operating Temperature: -10°C to +60°C
- Operating Humidity: 0% 90% RH (non-condensing)



Software & Media Features

- Pre-installed feedback application
- Advertisement support for MP4 / JPG / PNG formats
- Data upload protocol: HTTP POST
- Custom UI services available at additional cost

Display Specifications

- Type:
 - LED LCD (a-Si TFT-LCD with WLED backlight)
 - Grade A
- Size:
 - 10.1 inches (Aspect Ratio: 16:10)
- Active Display Area:
 - 220.51 mm (W) × 139.51 mm (H)
- Resolution: 1280 × 800
- Brightness: 400 cd/m²
- Viewing Angle:
 - Ultra-wide 89° (Left/Right/Up/Down)
 - Contrast Ratio ≥10
- Touch Technology:
 - Projected Capacitive Touchscreen
- Touch Points:
 - 10-point multi-touch

(supports gestures like pinch-to-zoom)



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