



# SPS-A100M

Audio Beacon / IP Speaker / Microphone / LED Combo



## Key Features

- 5 MEMS Microphones
- Two-way Audio Support Full-duplex
- 90dB Haut-parleur intégré
- AI Sound Classification Glass, Screaming, etc.
- Audio Beacon - Speaker with Max. Sound Pressure Level 90dB at 1m (3.28ft)
- Frequency Range: 144Hz ~ 20kHz
- 5 Digital Microphones with Two-Way/One-Way selectable
- Full Duplex communication with Echo Cancellation and Noise Reduction
- Sound Classification: Glass Break, Scream, Extreme Decibel Event
- Event Metadata: Sound Direction, Confidence, Audio Clip, dB level
- LED Ring (Green, Blue, Red, Pink, Sky blue, Purple)
- Initial and Post-duration action setting
- USB-C for installation app
- 2 configurable digital I/O
- PoE+
- ONVIF Profile S
- SUNAPI (HTTP API)
- Wisenet open platform
- AI Sound Classification pack included
- Secure Element with FIPS 140-3 level 3
- Indoor Rated
- Operating Temperature / Humidity: -20°C ~ +55°C (-4°F ~ +122°F) / Less than 90% RH
- Storage Temperature / Humidity: -50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH

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## Specifications

| Video                                    |             |                                                                                                                                                                                    |
|------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resolution                               |             | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360                                                                           |
| Max. Framerate                           | H.265/H.264 | 10fps                                                                                                                                                                              |
|                                          | MJPEG       | 5fps                                                                                                                                                                               |
|                                          | Others      | Static image video                                                                                                                                                                 |
| Video Out                                |             | USB: Micro USB Type C, setting true north point using Wisenet installation                                                                                                         |
| Operational                              |             |                                                                                                                                                                                    |
| Alarm Interface                          |             | 2 configurable I/O ports                                                                                                                                                           |
| Alarm Triggers                           |             | Analytics, Network disconnect, Alarm input, App event(Sound classification), Time schedule, MQTT subscription, Case tampering                                                      |
| Audio Streaming                          |             | Two-way/one-way selectable, Full duplex, Echo cancellation, Noise reduction                                                                                                        |
| Alarm Events When Alarm Trigger Occurred |             | File upload(audio): e-mail/FTP, Notification: e-mail,Alarm output, Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback(6MB,WAV), MQTT: publication,LED,Speaker |
| Audio In                                 |             | Built-in MEMS 5mics                                                                                                                                                                |
| Audio Out                                |             | Built-in speaker, Max. Sound Pressure Level 90dB at 1m(3.28ft), Frequency Range: 144Hz~20kHz                                                                                       |
| Light Type                               |             | LED Ring(Green, Blue, Red, Pink, Sky blue, Purple), for event action                                                                                                               |
| Analytics                                |             |                                                                                                                                                                                    |
| Analytics Events Based on AI Engine      |             | Sound classification                                                                                                                                                               |
| Classified Sound Type                    |             | Crashing glass, Screaming, Vehicle horn, Tire screech                                                                                                                              |
| Event Metadata                           |             | Sound type, Sound direction, Confidence, Timestamp, Best sound(audio file), dB( $\pm 10$ dB)                                                                                       |
| Sound Direction                          |             | Ceiling mounting: $\pm 15$ degrees                                                                                                                                                 |
| Network                                  |             |                                                                                                                                                                                    |
| Ethernet                                 |             | RJ-45(10/100 BASE-T)                                                                                                                                                               |
| Audio Compression                        |             | G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz, G.726: 16kbps,24kbps,32kbps,40kbps, AAC-LC: 16kHz(48kbps)                                                              |

## Network

|                                   |                    |                                                                                                                                                                                                                                                        |
|-----------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Streaming                         | Unicast            | Up to 6 users                                                                                                                                                                                                                                          |
|                                   | Multicast          | Support                                                                                                                                                                                                                                                |
|                                   | Multiple Streaming | Up to 6 profiles                                                                                                                                                                                                                                       |
| Protocol                          |                    | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT, SIP 2.0(RFC 3261 and companion RFCs) |
| Application Programming Interface | ONVIF              | S                                                                                                                                                                                                                                                      |
|                                   | Others             | SUNAPI(HTTP API), Hanwha Vision Open Platform, AI Sound Classification pack included                                                                                                                                                                   |

## Security

|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| OS / Firmware Protect  | Encrypted firmware, Secure boot, Signed firmware                        |
| User authentication    | Digest authentication, Prevent brute-force attack                       |
| Network authentication | IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)                      |
| Secure Communication   | SRTP, HTTPS, WSS(WebSocket Secure)                                      |
| Access Control         | IP-based access control                                                 |
| Data Protect           | Encryption credentials, Encrypt compress for live recording file export |
| Audit                  | Access / System / Event Log management                                  |
| Device ID              | Device certificate(Hanwha Vision Root CA)                               |
| Secure Storage         | Secure element                                                          |
| Security Certificate   | Secure element(FIPS 140-3 level3, CC EAL6+)                             |

## General

|        |       |       |
|--------|-------|-------|
| Memory | RAM   | 4GB   |
|        | Flash | 512MB |

## Environmental & Electrical

|                     |             |                           |
|---------------------|-------------|---------------------------|
| Operating Condition | Temperature | -20°C~+55°C(-4°F~+122°F)  |
|                     | Humidity    | 0~90% RH(non-condensing)  |
| Storage Condition   | Temperature | -50°C~+60°C(-58°F~+140°F) |
|                     | Humidity    | 0~90% RH(non-condensing)  |
| Input Voltage       |             | PoE+(IEEE802.3at, Class4) |
| Power Consumption   | PoE         | Max 18.5W, typical 8.2W   |

## Mechanical

|                    |                                                |
|--------------------|------------------------------------------------|
| Color              | White                                          |
| Material           | Plastic, Aluminum                              |
| RAL Code           | RAL9003                                        |
| Product Dimensions | 215.1(W)x135.1(D)x52.8(H)mm(8.47"x5.32"x2.08") |

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**Mechanical**

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Product Weight          | 973g(2.15 lb)                                      |
| Compatible Conduit Hole | Support conduit compatibility via optional adaptor |
| Compatible Gang Box     | Single, Double, 4" Octagon, Square                 |

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**Certifications & Standards**

|             |                                                                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC         | FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, VCCI CISPR 32 Class A, RCM AS/NZS CISPR 32 Class A |
| Safety      | UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC/EN 62471                                                                                                                         |
| Environment | IEC/EN 63000                                                                                                                                                                |

# SPS-A100M

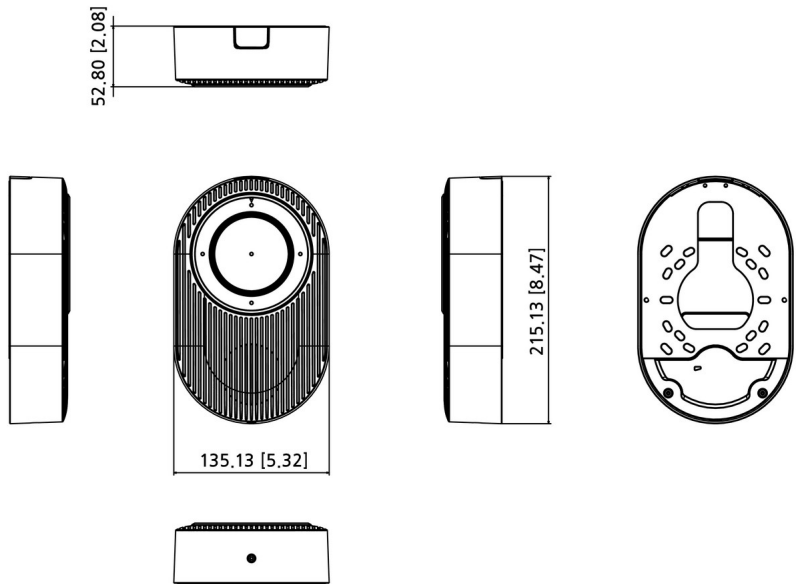
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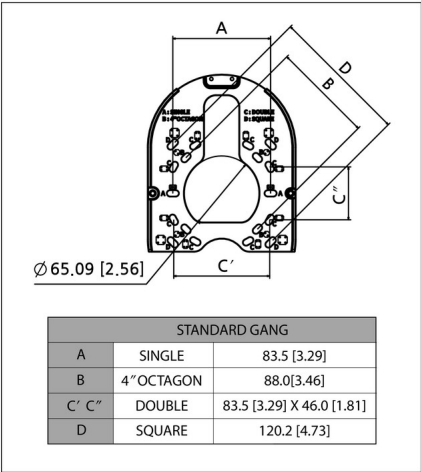
## CAD

Unit: mm [inch]

### SPS-A100M AI Sound Detector



Reference image



|               |           |
|---------------|-----------|
| Revision      | V1.1      |
| Revision Date | 25/02/27  |
| Paper Size    | A0        |
| Unit          | mm [inch] |
| Scale         | 1 : 1     |

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## Compatible Devices

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SBP-060BA



SBP-215HMW