Sound AI PoE Light Siren User Manual

GG-POEDC1BE-BRW
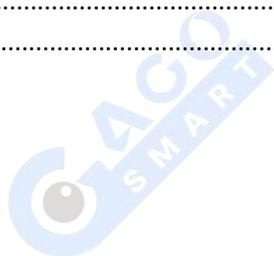
GG-POEDC1BE-BGW

Version:2025.1.0
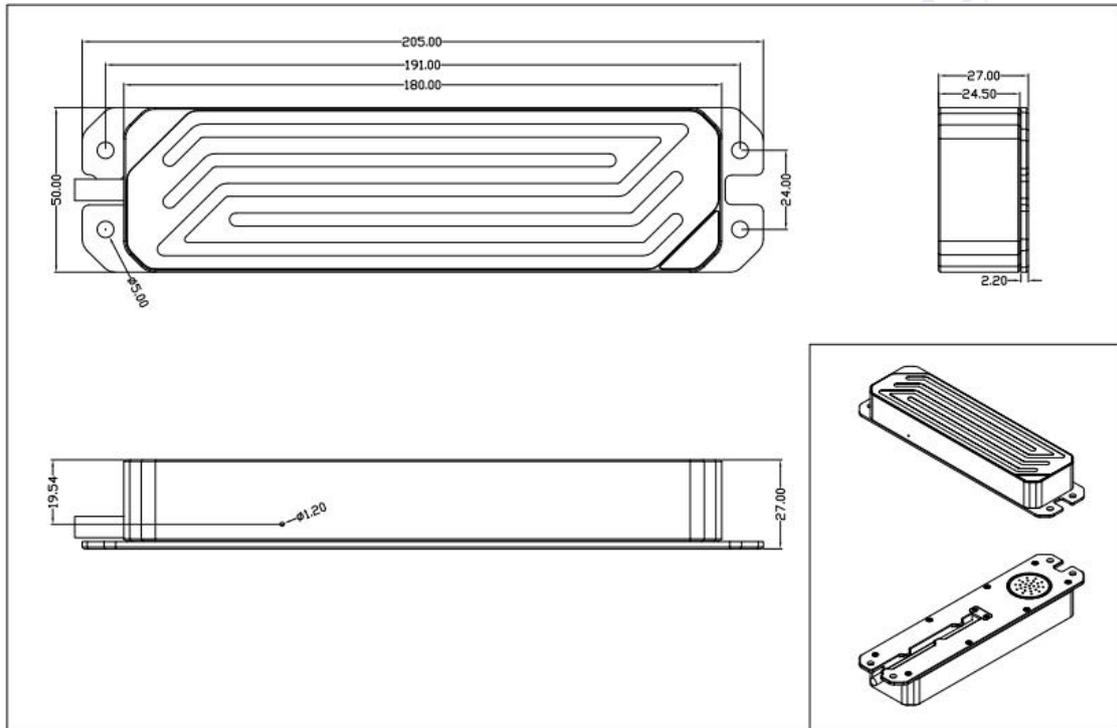
Catalog

1. Product Introduction

1.1 Product dimensions

1.2 Product/ Wiring description

No./ Name	Description
DC Connector	DC 12V, 2A
LAN	POE+
Alarm In	Match with Web Event Input GPIO Setting. Black&Pink:10 Black&Yellow:01 Black&Yellow&Pink:00
Alarm Out	*1, light green wire,high level 3.3V, 10mA
GND	*1, black wire

2. Log in web page

Device Default IP Address: 192.168.0.100
Default User Name: admin, Default PW: 111111

3. Dashboard

The dashboard displays statistical information about alarm events, including AI-Keywords alarm, AI-Sounds alarm, noise alarm, alarm input and alarm output.

4. Device Info

This page shows the basic information of the device, like MAC,IP,FW version etc. It also allows user to add additional descriptions to the device, this will help users to know where the device is exactly.

SN	110D86E586B32915
MAC	8c:1f:64:a3:64:44
IP Address	192.168.0.95
Model	SmartLight
* Name	SmartLight--1st floor
Manager	Please Enter Manager
Main Version	25.03.01.18
FW Version	25.03.01.18
App Version	25.03.01.15
Web Version	25.03.01.16
Disk Free	19M

Save

5. Network Settings

User could set the IP related parameters according to the specific requirements in this page.

If DHCP is enabled, please use IP tool to search the IP of the device.

Enable DHCP	⬤
* IPv4 Address	192.168.0.95
* IPv4 Mask	255.255.255.0
* IPv4 Gateway	192.168.0.1
Mac Address	8c:1f:64:a3:64:44
* Preferred DNS	8.8.8.8
Alternate DNS	Please Enter Alternate DNS

Reset   Save

6. Management

In this page, user could check, add,delete and edit the user accounts to log in the device.

	No.	Username	Level ⇕	Operate
☐	1	admin	Admin	✎ 🗑
☐	2	viewer	Viewer	✎ 🗑

< > Go to 1

7. Audio Settings

This page allows user to upload and delete their own audio files of the device and also to check the default audio files.

Custom	Default

☐	No.	Filename	Time	Operate
			No Data	

< > Go to 1

Below is the limitations of the audio files.
- File format: WAV
- Maximum:10M
- Channel type: Mono
- Sampling rate:16K
- Bit rate:256KBps

Custom	Default

No.	Filename
1	warn.wav
2	StopIt.wav
3	StopFighting.wav
4	Emergency.wav
5	RestrictedArea.wav
6	YouAreMonitored.wav
7	YouAreNotAlone.wav

< > Go to 1

8. Led Settings

This page allows user to add ,delete and edit their own control modes of the led lights and also to check the default control modes of led lights.

9. System Settings

9.1 Configuration

Cruise LED Color: choose what color of LED will be triggered by the events like alarm input ports, keyword sounds, noise and screaming etc.

Cruise LED Signal: set the working mode of LED once the LED is triggered.

Alarm Volume: The speaker loudness for alarm input port triggering.

Media Volume: The speaker loudness for sound recognition triggering.

Brightness: Set the brightness of green,blue and white LED.

Working Hours: Set the working time of device.

Work Days: Select the specific working days.

Work Times: Select the working time of a day.

Enable: Enable the audio recognition function.

Threshold: Algorithm recognition accuracy. The larger this value is, the lower the sensitivity of the algorithm and the higher the recognition accuracy, but some inaccurate pronunciations will be missed.

Alarm Release Interval: The time period between the triggering of the alarm signal and its release.

Reboot: Reboot the device.

9.2 Upgrade

This page is used for FW upgrade.
Click "Upload"to scan the FW file, then click "Operate" to start.
Normally, it will take about 3 minutes. During FW upgrading, please ensure power on always.

No.	Version	File Name	Status	Username	Time	Operate
1	25.03.01.18	update-ippoe-25.03.01.18.update.bin	Not Upgraded	admin	2025-03-03 16:33:48	✈

10/page   Total 1   ‹ 1 ›   Go to 1

9.3 System Time

After the device installed, users need to set time based on its time zone, to ensure the device time is same as their system.

9.4 Function Test

The LED and audio function of device could be tested or checked here. For example, click green button, the green led will be on.

10. Action Broadcast

Here user could set the details of broadcast function. If the alarm events like alarm input triggered, keyword sounds or noise recognized   etc., are happening, the alarm events will be sent to other devices based   on the broadcast settings.

SN List: write the serious number of devices which you want to synchronize the alarm events.

IP List or **segment**: set the IP of devices which you want to synchronize the alarm events.

11. Alarm Settings

11.1 Event Input

In this web page, user could set alarm in port, AI keywords, AI sounds, noise and broadcast linkage related alarm events.

GPIO In: choose the alarm in ports you want to be triggered.

Check all: select all the available items.

AI Keywords: Enable or choose the recognizable speech trigger words, including "Help Me", "Help_911", "Emergency" etc.

AI Sounds: Enable or choose the recognizable sounds, including "Gunshot", "Glass" and "Scream" etc.

Noise: Enable and set the threshold for the noise detection.

Trigger Threshold: The trigger threshold of noise loudness. For example, if the noise is greater than 95 dB, this will trigger the noise event.

Release Threshold: if the noise is less than 90 dB, the noise event will be released.

Enable: Enabling will allow accepting broadcast linkage from other devices.

11.2 Event Output

In this web page, user could set the linkage control of event output. All the input events in "11.1" can trigger the event output of device, including alarm output port, speaker, network transmission and LED lights.

Below is an example of setting the linkage control of "Help Me" sound. Once the "Help Me" sound is detected, if the user want the device alarm out port to output high level for 2 seconds; the speaker to play "YouAreNotAlone.wav" file; the white LED to strobe 10 Sec; the device to send TCP message.

Step 1: Make sure the "Help_Me" is enabled in "11.1".

Step 2: set the parameters as below picture the click "Save" button.

12. Platform Integration

When alarm happens,device can also send data or event to 3rd party platform to remind. The device support TCP, HTTP and MQTT communication protocols.

12.1 TCP Settings

Host, Port: Type the host and port based on specific project.
Trigger String: when alarm happens, send alarm information to platform;
Release String: it is to notify the 3rd party platform alarm canceled.

Enable

* Host   please enter Host

* Port   please enter Port

* Trigger String   ● On   ○ Off

Json ∨   ≫ ≪

SN   MODEL   NAME   MANAGER

IP   DATE   TIME   MAC   MAIN-VERSION   FW-VERSION   APP-VERSION

DATA-ALL   GPIO-IN   AI-SOUNDS   AI-KEYWORDS   NOISE

EID-ALL   EID-TRIGGER   EID-TRIGGERNAME

```
1 ▾ {
2       "uuid": "%DEVICE@SN%",
3       "ip": "%SYSTEM@IP%",
4       "mac": "%SYSTEM@MAC%",
5       "date": "%SYSTEM@DATE%",
6       "time": "%SYSTEM@TIME%",
7       "trigger": "%EID@TRIGGER%",
8       "allData": "%DATA@ALL%"
9   }
```

Release String   ○ On   ● Off

Save

12.2 HTTP Settings

Server: HTTP server.
Method: "POST" and "GET" modes could be selectable.
Content Type: Json is support。
Auth Method: "None", "Private Key Value Pairs", "Bearer Auth" and "Basic Auth" are supported.
Trigger String: when alarm happens, send alarm information to platform;
Release String: it is to notify the 3rd party platform alarm canceled.

Enable	⬤
* Server	please enter Server
* Method	POST ⌄
* Content Type	application/json ⌄
* Auth Method	None ⌄
* Trigger String	⬤ On ○ Off

Json ⌄ ⌄ ⌃

SN	MODEL	NAME	MANAGER

IP	DATE	TIME	MAC	MAIN-VERSION	FW-VERSION	APP-VERSION

DATA-ALL	GPIO-IN	AI-SOUNDS	AI-KEYWORDS	NOISE

EID-ALL	EID-TRIGGER	EID-TRIGGERNAME

```
1  {
2      "uuid": "%DEVICE@SN%",
3      "ip": "%SYSTEM@IP%",
4      "mac": "%SYSTEM@MAC%",
5      "date": "%SYSTEM@DATE%",
6      "time": "%SYSTEM@TIME%",
7      "trigger": "%EID@TRIGGER%",
8      "allData": "%DATA@ALL%"
9  }
```

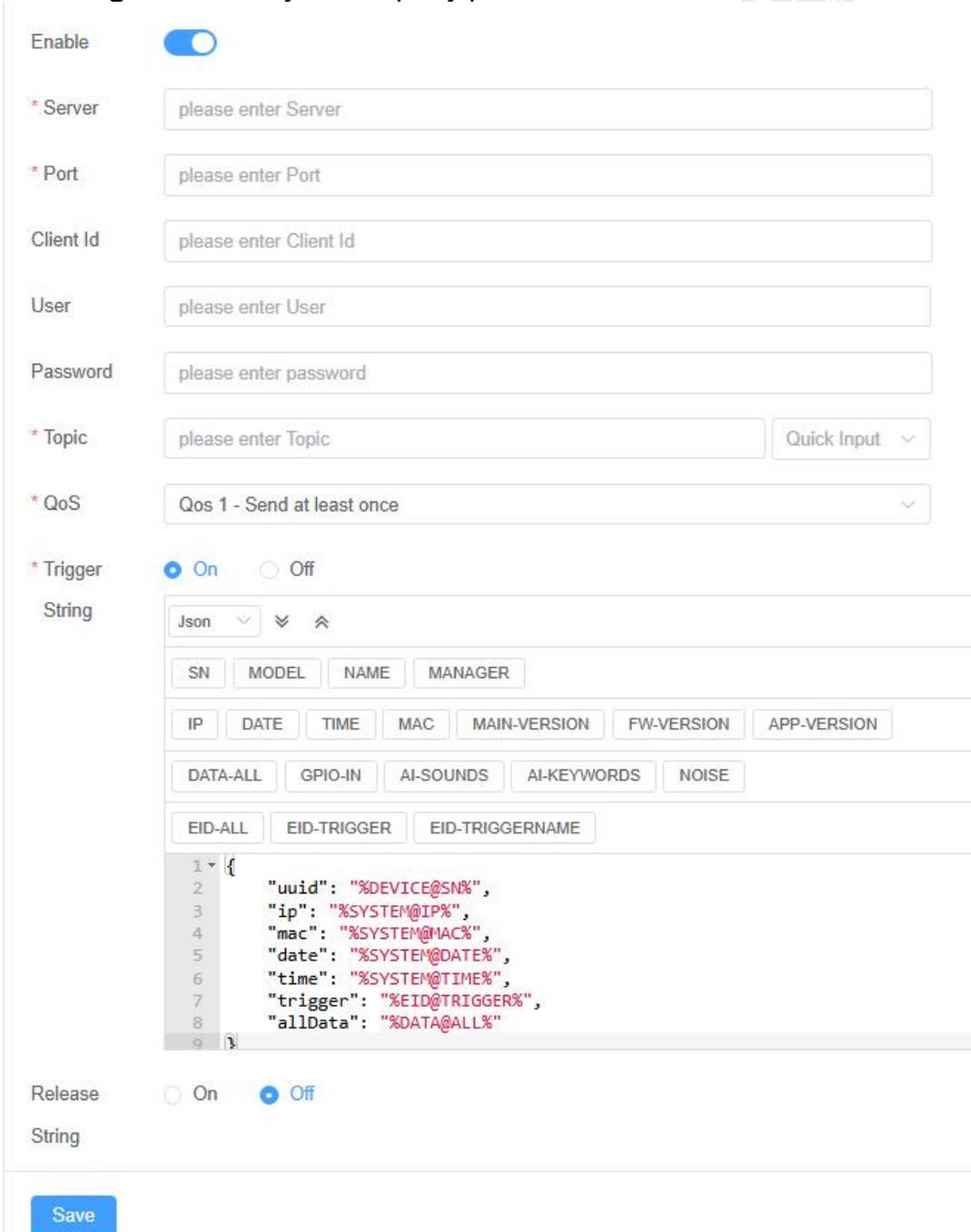| Release String	○ On ⬤ Off

Save

12.3 MQQT Settings

Server, Port, Client Id,User,Password: These should be filled based on the project.
Topic: "MAC" and "SN" are supported.
QoS: Three modes are supported, including Qos 0- Send at most once,Qos 1 - Send at least once and Qos 2 - Exactly once.
Trigger String: when alarm happens, send alarm information to platform;
Release String: it is to notify the 3rd party platform alarm canceled.

12.4 Heartbeat

Heartbeat function is used to let the platform check whether the device is online or offline.

Protocol: HTTP, TCP and MQTT are supported.
Server: Server address.
Method: "POST" and "GET" modes are selectable.
Content Type: JSON is supported.
Auth Method: "None", "Private Key Value Pairs", "Bearer Auth" and "Basic Auth" are supported.
Interval: Includes "Second", "minutes" and "Hours" three different time levels to select.
Message: Support "JSON" and "Text".

13. History

In this page, users can have data logs and also event records. And all the data or records can be download as a report.

13.1 Data Log

No.	Gpio In	AI Keywords	AI Sounds	Noise	Date	Time
1	gpio11			86	2025-03-03	16:00:20
2	gpio11			86	2025-03-03	16:00:19
3	gpio11			87	2025-03-03	16:00:18
4	gpio11			87	2025-03-03	16:00:17
5	gpio11			77	2025-03-03	16:00:16
6	gpio11			81	2025-03-03	16:00:15
7	gpio11			86	2025-03-03	16:00:13
8	gpio11			90	2025-03-03	16:00:12
9	gpio11			86	2025-03-03	16:00:11
10	gpio11			72	2025-03-03	16:00:10

10/page Total 3480 ‹ 1 2 3 4 5 6 ... 348 › Go to 1

13.2 Event Log

No.	Event Name	Type	Value	Date	Time
1	Emergency	release	-	2025-03-03	11:22:20
2	Help_Me	release	-	2025-03-03	11:21:47
3	Emergency	trigger	emergency	2025-03-03	11:21:20
4	Help_Me	trigger	help_me	2025-03-03	11:20:47
5	Emergency	release	-	2025-03-03	11:20:38
6	Help_Me	trigger	help_me	2025-03-03	11:20:32
7	Help_Me	release	-	2025-03-03	11:20:02
8	Emergency	trigger	emergency	2025-03-03	11:19:38
9	Help_Me	trigger	help_me	2025-03-03	11:19:01
10	Help_Me	trigger	help_me	2025-03-03	11:18:30

‹ › Go to 1