



# Sound AI PoE Light Siren User Manual

**GG-POEDC1BE-BRW**

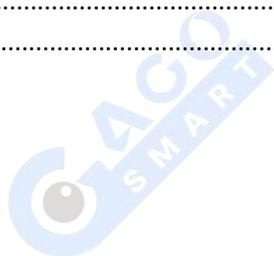
**GG-POEDC1BE-BGW**



Version:2025.1.0

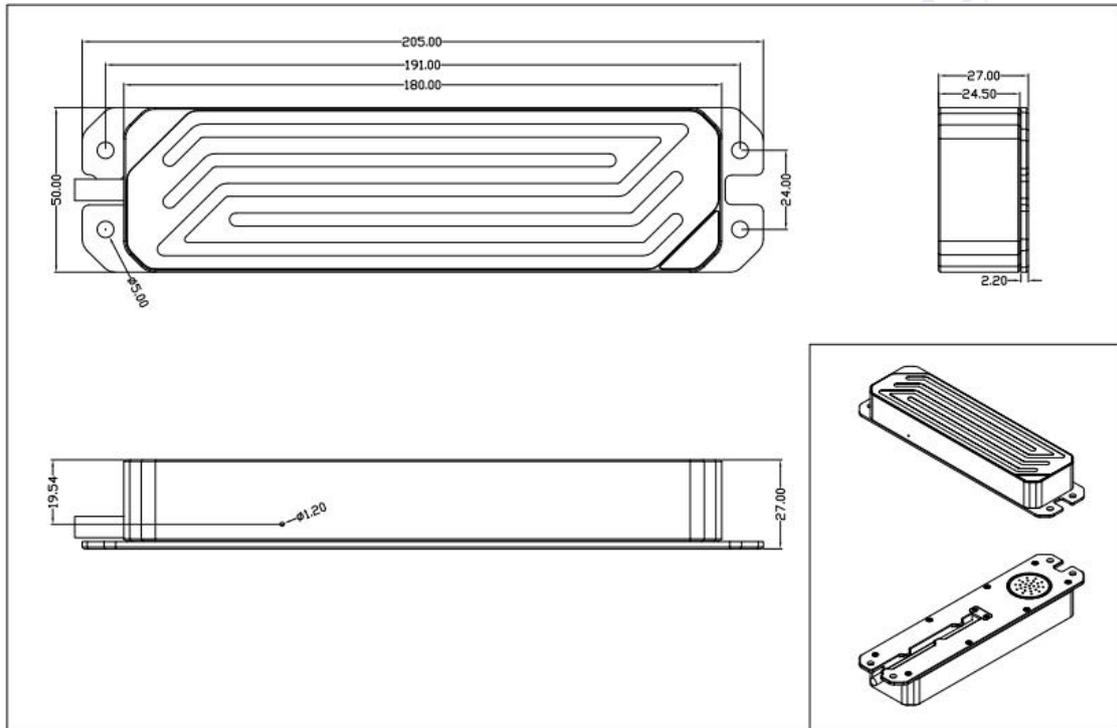
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# 1. Product Introduction

## 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	<input type="checkbox"/>
* 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.

<input type="checkbox"/>	No.	Username	Level	Operate
<input type="checkbox"/>	1	admin	Admin	
<input type="checkbox"/>	2	viewer	Viewer	

## 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.

<input type="checkbox"/>	No.	Filename	Time	Operate
No Data				

Below is the limitations of the audio files.

- File format: WAV
- Maximum: 10M
- Channel type: Mono
- Sampling rate: 16K
- Bit rate: 256KBps



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

## 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.

Custom		Default					
<div style="display: flex; justify-content: space-between; align-items: center;"> <span>↻</span> <span style="background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">+ Add</span> <span style="background-color: #007bff; color: white; padding: 2px 5px; border-radius: 3px;">✎ Edit</span> <span style="background-color: #dc3545; color: white; padding: 2px 5px; border-radius: 3px;">🗑 Delete</span> </div>							
<input type="checkbox"/>	No.	Name	Type	Total D...	Each D...	State	Operate
<input type="checkbox"/>	1	as	blink	10 (s)	2000 (ms)	Enable	✎ 🗑 ⚙
10/page		Total 1		<span>&lt;</span> <span style="background-color: #007bff; color: white; padding: 2px 5px;">1</span> <span>&gt;</span>		Go to <input type="text" value="1"/>	

Custom		Default					
<div style="display: flex; justify-content: space-between; align-items: center;"> <span>↻</span> </div>							
No.	Name	Type	Total Duration	Each Duration	State	Operate	
1	Steady 10 Sec	steady	10 (s)		Enable	⚙	
2	Steady 30 Sec	steady	30 (s)		Enable	⚙	
3	1 Sec Blink Total 10 Sec	blink	10 (s)	1000 (ms)	Enable	⚙	
4	2 Sec Blink Total 10 Sec	blink	10 (s)	2000 (ms)	Enable	⚙	
5	Strobe 10 Sec	strobe	10 (s)	50 (ms)	Enable	⚙	
<span>&lt;</span> <span>&gt;</span> Go to <input type="text" value="1"/>							

## 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.

\* Cruise LED Color

\* Cruise LED Signal

\* Alarm Volume

\* Media Volume

---

*Brightness*

\* Green Light

\* Blue Light

\* White Light

---

*Working Hours*

\* Work Days

\* Work Times  -   
*Only send alerts between the selected times*

---

*AI Info*

\* Enable

\* Threshold

\* Alarm Release Interval  (Sec)

## 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	<input type="button" value="Operate"/>

10/page Total 1    Go to

### 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.

The screenshot shows the 'System Time' configuration page. It includes an 'Enable' toggle switch that is turned on. Below it are dropdown menus for 'NTP Server' (set to 'time.windows.com'), 'Time Zone' (set to 'UTC+8'), and 'System Time' (set to '2025-03-03 15:45:59'). At the bottom, there are two buttons: 'Sync Local Time' (green) and 'Save' (blue).

### 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.

The screenshot displays three functional test panels. The 'Network' panel shows settings: DHCP: Off, Ipv4: 192.168.0.95, Mask: 255.255.255.0, Gateway: 192.168.0.1, and MAC: 8c:1f:64:a3:64:44. The 'Audio' panel has a 'Play' button (blue) and a 'Stop' button (red). The 'LED' panel has a 'Color' dropdown menu with 'Green' selected, and 'Blue' and 'White' buttons below it.

## 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.

The screenshot shows the 'Action Broadcast' configuration page. It features a toggle for '\* Full Network' (turned off). Under '\* Method', there are checkboxes for 'SN List' and 'IP List' (both checked), and an unchecked checkbox for 'IP Segment'. Below these are two text input fields: '\* SN List' with a placeholder 'Please enter 'sn' separated by line breaks' and '\* IP List' with a placeholder 'Please enter 'ip' separated by line breaks'. A 'Save' button is located at the bottom right.

# 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.

The screenshot shows the following settings:

- GPIO In:**  Check all,  GPIO\_In\_00,  GPIO\_In\_01,  GPIO\_In\_10
- AI Keywords:**  Check all,  Help\_Me,  Help\_911,  Emergency
- AI Sounds:**  Check all,  Gunshot,  Glass,  Scream
- Noise:**  Enable  
Trigger Threshold:   
Release Threshold:
- Enable:**  (Enabling will allow accepting broadcast linkage from other devices)

**Save**

**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.

The screenshot shows a configuration page for the 'Help\_Me' event. It features a list of events on the left, with 'Help\_Me' selected and expanded. The configuration options for 'Help\_Me' are as follows:

- GPIO Out:** High
- GPIO Duration:** 2000 (ms)
- Audio:** YouAreNotAlone.wav
- LED Color:** White
- LED Signal:** Strobe 10 Sec
- Network:**  Http Enable,  Tcp Enable,  Mqtt Enable
- Enable Broadcast:**  (Enable broadcasting events to other devices)

At the bottom of the configuration section, there are two buttons: 'Test' and 'Save'. Below the configuration section, there is a list of other events: 'Noise' and 'Scream', both with expandable arrows. At the very bottom of the page, there are two buttons: 'Default' and 'Save All'.

## 12. Platform Integration

When alarm happens, device can also send data or event to 3<sup>rd</sup> 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 3<sup>rd</sup> party platform alarm canceled.

Enable

\* Host

\* Port

\* Trigger String  On  Off

Json

```
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

## 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 3<sup>rd</sup> party platform alarm canceled.

Enable

\* Server

\* Method

\* Content Type

\* Auth Method

\* 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

## 12.3 MQTT Settings

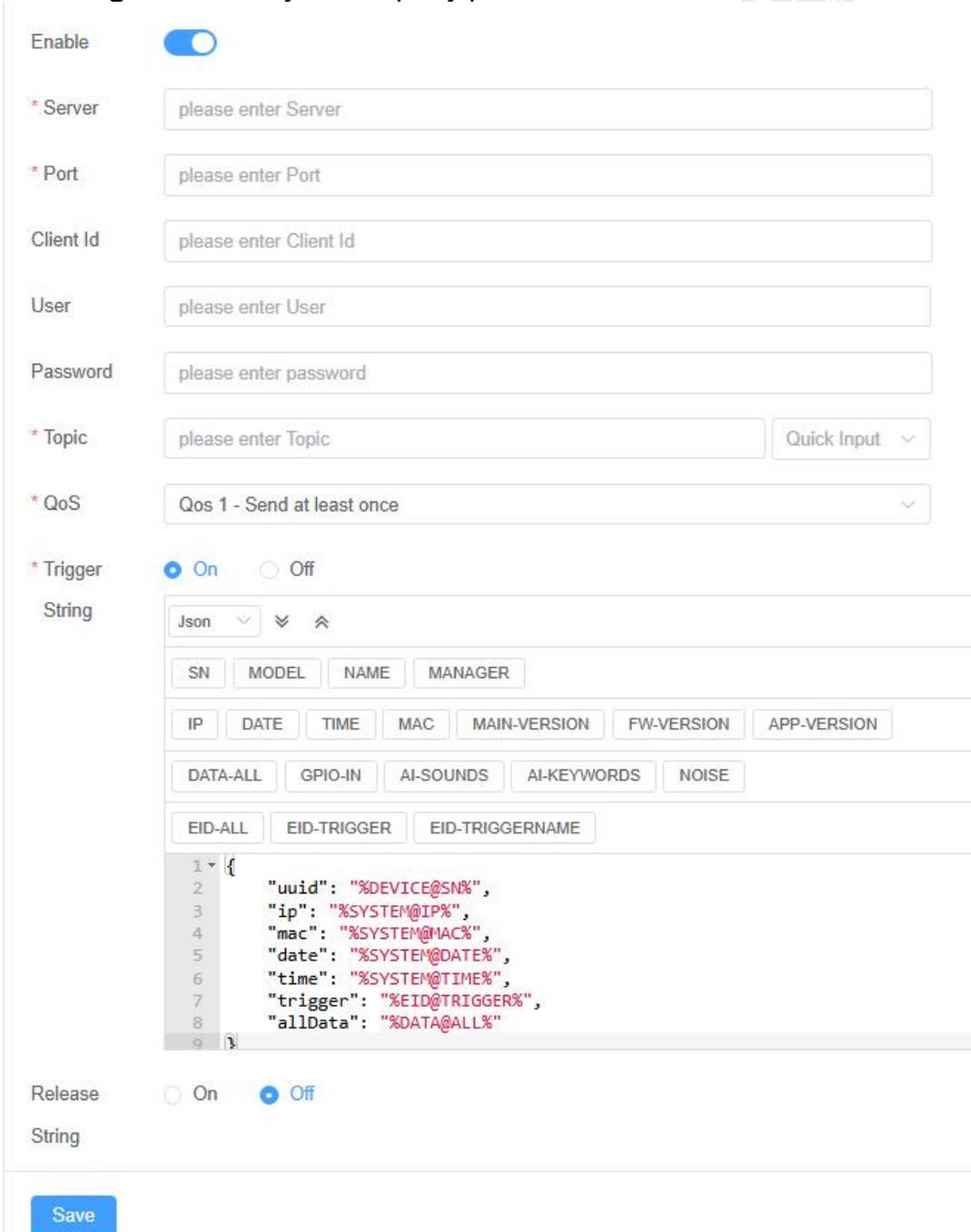
**Server, Port, Client Id, User, Password:** These should be filled based on the project.

**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 3<sup>rd</sup> party platform alarm canceled.



The form contains the following fields and options:

- Enable:** A toggle switch that is currently turned on (blue).
- \* Server:** A text input field with the placeholder "please enter Server".
- \* Port:** A text input field with the placeholder "please enter Port".
- Client Id:** A text input field with the placeholder "please enter Client Id".
- User:** A text input field with the placeholder "please enter User".
- Password:** A text input field with the placeholder "please enter password".
- \* Topic:** A text input field with the placeholder "please enter Topic" and a "Quick Input" dropdown menu.
- \* QoS:** A dropdown menu currently set to "Qos 1 - Send at least once".
- \* Trigger:** Radio buttons for "On" (selected) and "Off".
- String:** A section for defining the trigger string format, including:
  - A dropdown menu set to "Json".
  - Buttons for selecting data fields: 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, and EID-TRIGGERNAME.
  - A code editor showing a JSON object: 

```
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:** Radio buttons for "On" and "Off" (selected).
- String:** A text input field for the release string.
- Save:** A blue button at the bottom left.

## 12.4 Heartbeat

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

Enable

\* Protocol

\* Server

\* Method

\* Content Type

\* Auth Method

\* Interval

\* Message

Json

SN MODEL NAME MANAGER

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

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

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

**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