# VoIP PCB Board User Manual



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| Doc. Version | Firmware Version | Update Description | Modification Date |
|---|---|---|---|
| V1.0 | 20220127 | First released | 202202 |
| V1.5 | 20220912 | Update Web GUI | 202209 |
| V1.6 | 20221123 | Optimize MIC volume | 202211 |
| V1.7 | 20221220 | Add alarm status page in Web GUI | 202212 |
| | | | |
| | | | |



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# 1 Login

When the PCB board and computer are connected to the network successfully, enter the IP address of the PCB board in the browser (Default IP address is 192.168.1.127) and you will see the login web page.

The username and password should be filled into the login form. The default username and password are all '**admin**'.



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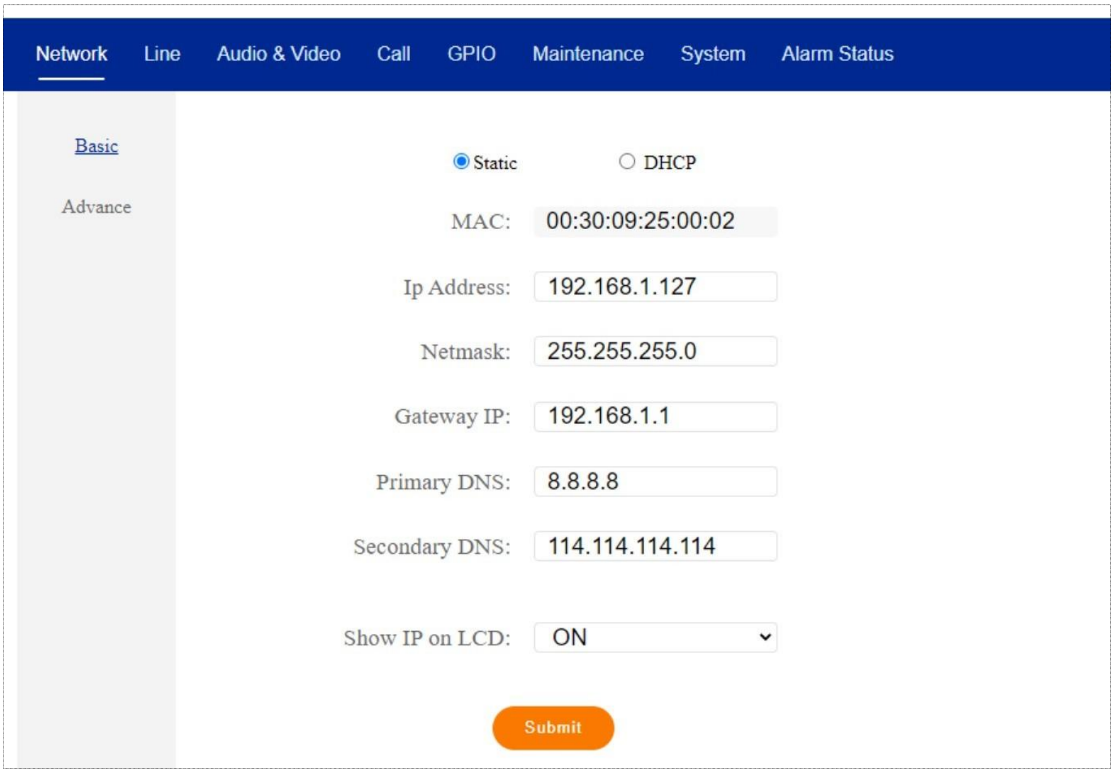
# 2 Network Settings

## 2.1 Basic settings




| | |
|---|---|
| Static DHCP | Static DHCP network mode selection |
| MAC | Local MAC address |
| Ip Address: | Static IP address of the local network |
| Netmask: | Local sub-net mask |
| Gateway IP: | Gateway IP address |
| Primary DNS: | Primary DNS server address |
| Secondary DNS: | Secondary DNS server address |
| Show IP on LCD: | Enable or disable IP address display on LCD |



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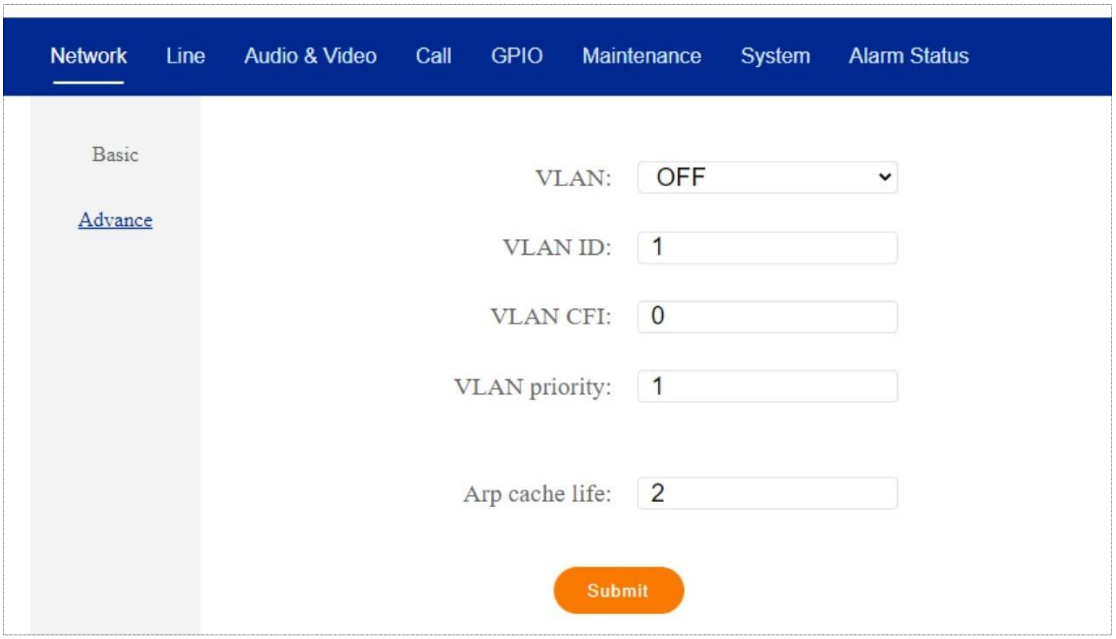
## 2.2 Advance Settings




| | |
|---|---|
| VLAN： | Enable or disable VLAN |
| VLAN ID: | VLAN ID |
| VLAN CFI: | VLAN CFI |
| VLAN priority: | VLAN priority |
| Arp cache life: | Arp cache life |



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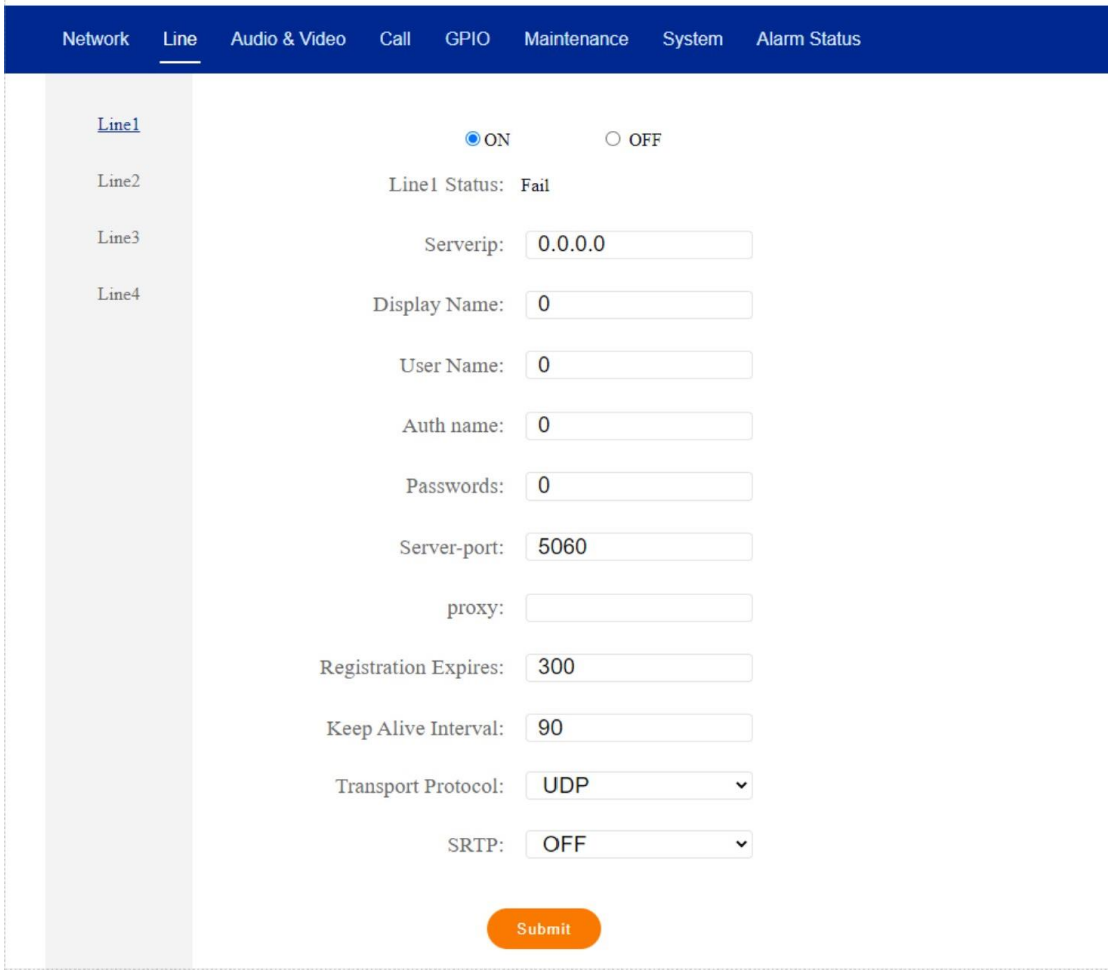
# 3 Line Settings

The SIP line configuration should be set via the WEB configuration page by entering the correct information such as phone number, authentication name/password, SIP server address, server port, etc. which are provided by the SIP server administrator. There are four lines supported.




| | |
|---|---|
| Line ON/OFF | Enable or disable the Line |
| Line Status: | SIP server connection status Fail / Registered / Not Enabled |
| Serverip: | SIP server address |
| Display Name: | The name display at the other party |
| User Name: | SIP account user name |
| Auth name: | SIP account authenticated name |
| Passwords: | SIP account password |
| Server-port: | SIP server port |
| proxy: | Proxy server address |
| Registration Expires: | Register Expires is the parameter that controls how often your client contacts the SIP server to remind it that the client is alive and confirming its current location (public IP address and listening SIP port). |



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| | |
|---|---|
| Keep Alive Interval: | Heartbeat packet cycle (second) |
| Transport Protocol: | SIP transport protocol UDP or TCP |
| SRTP: | Enable or disable SRTP |



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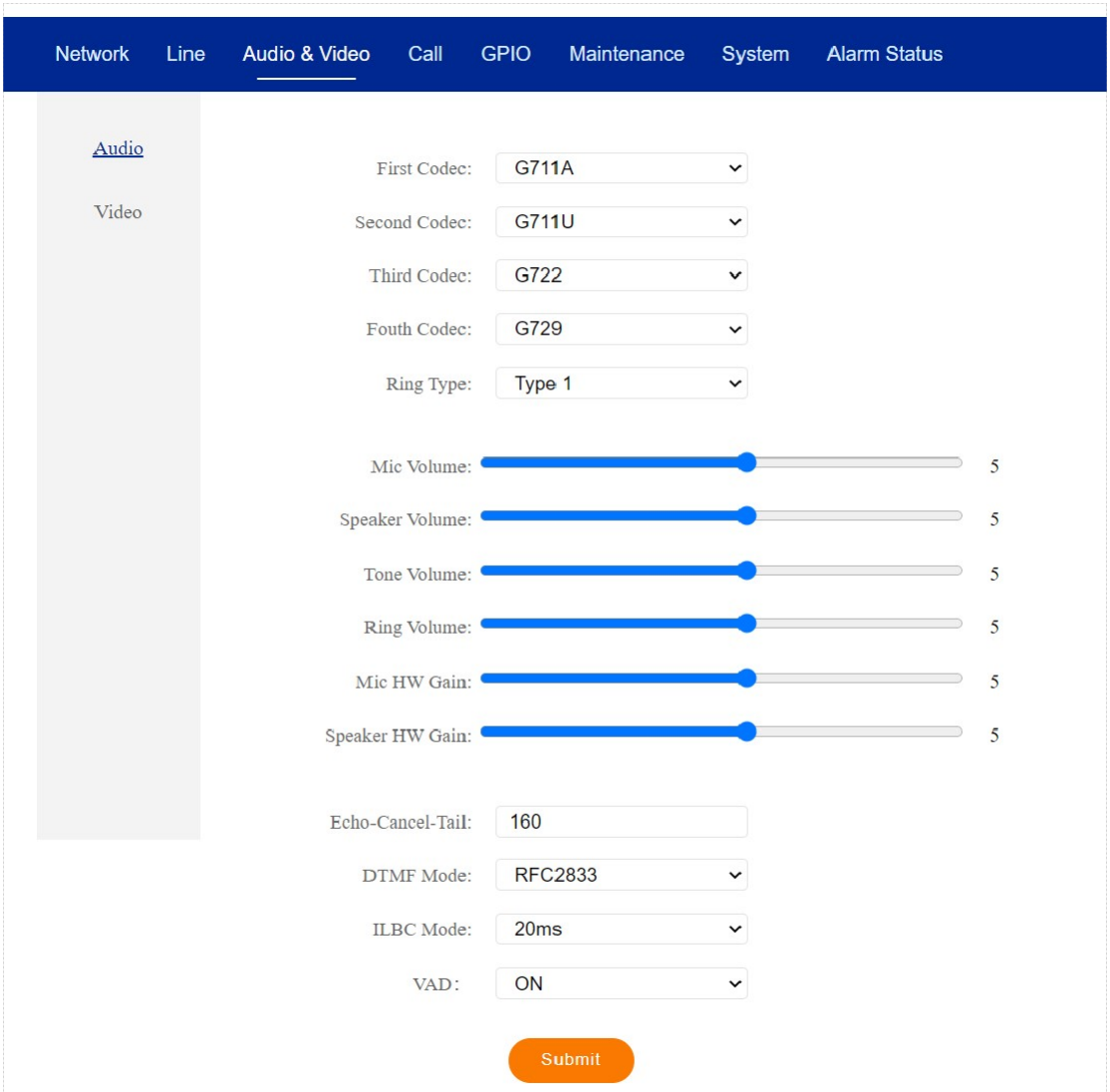
# 4 Audio& Video Settings

## 4.1 Audio Settings




| | |
|---|---|
| First Codec: | First priority speech encoding |
| Second Codec: | Second priority speech encoding |
| Third Codec: | Third priority speech encoding |
| Fourth Codec: | Fourth priority speech encoding |
| Ring Type: | Ringtones choice |
| Mic Volume: | Send volume settings (0-9) |
| Speaker volume: | Receive volume settings (0-9) |
| Tone Volume: | Prompt tone volume settings (0-9) |
| Ring Volume: | Ringtone volume settings (0-9) |
| Mic HW Gain | Adjust the gain of mic input (0-9) |
| Speaker HW Gain | Adjust the gain of speaker output (0-9) |



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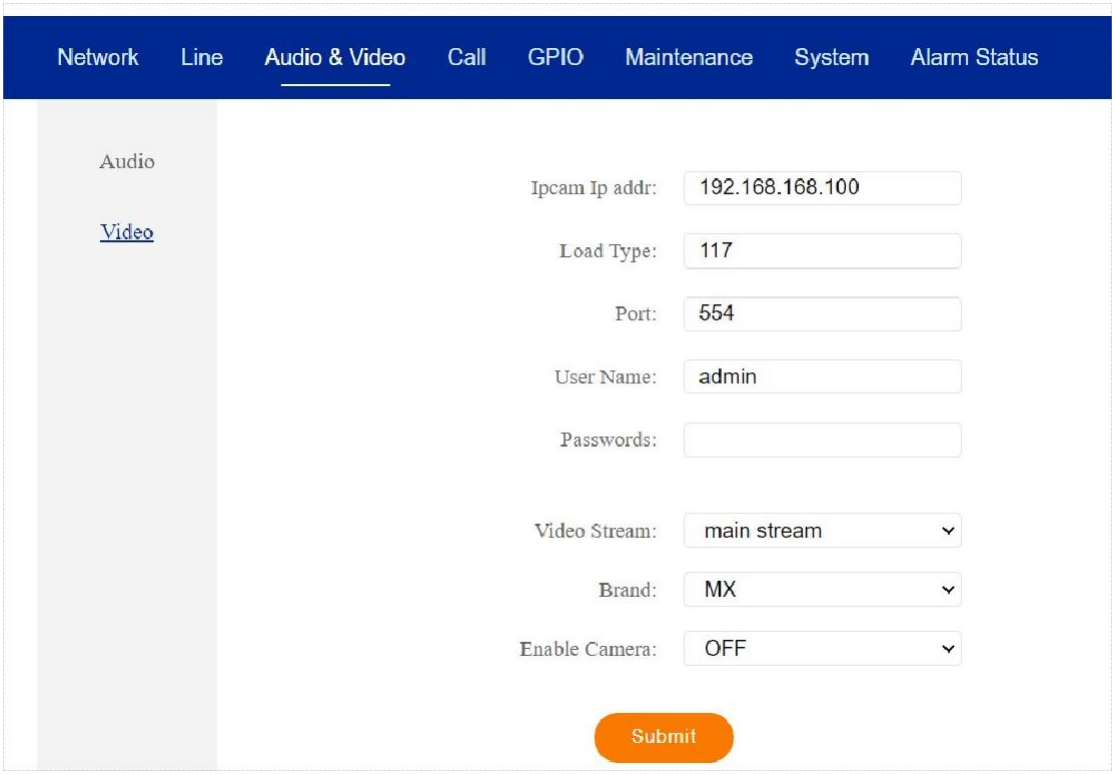
| | |
|---|---|
| Echo-Cancel-Tail(ms): | Echo cancel time set |
| DTMF Mode: | DTMF mode selection |
| VAD: | Enable VAD |

## 4.2 Video Settings




| | |
|---|---|
| IPCam IP Addr: | Camera IP Address |
| Load Type: | Multimedia Load Types |
| Port: | Camera port |
| User Name: | User Name of Camera |
| Passwords: | Passwords of Camera |
| Video Stream: | Main stream or sub stream |
| Brand: | Brand of camera |
| Enable Camera: | Enable or disable camera |



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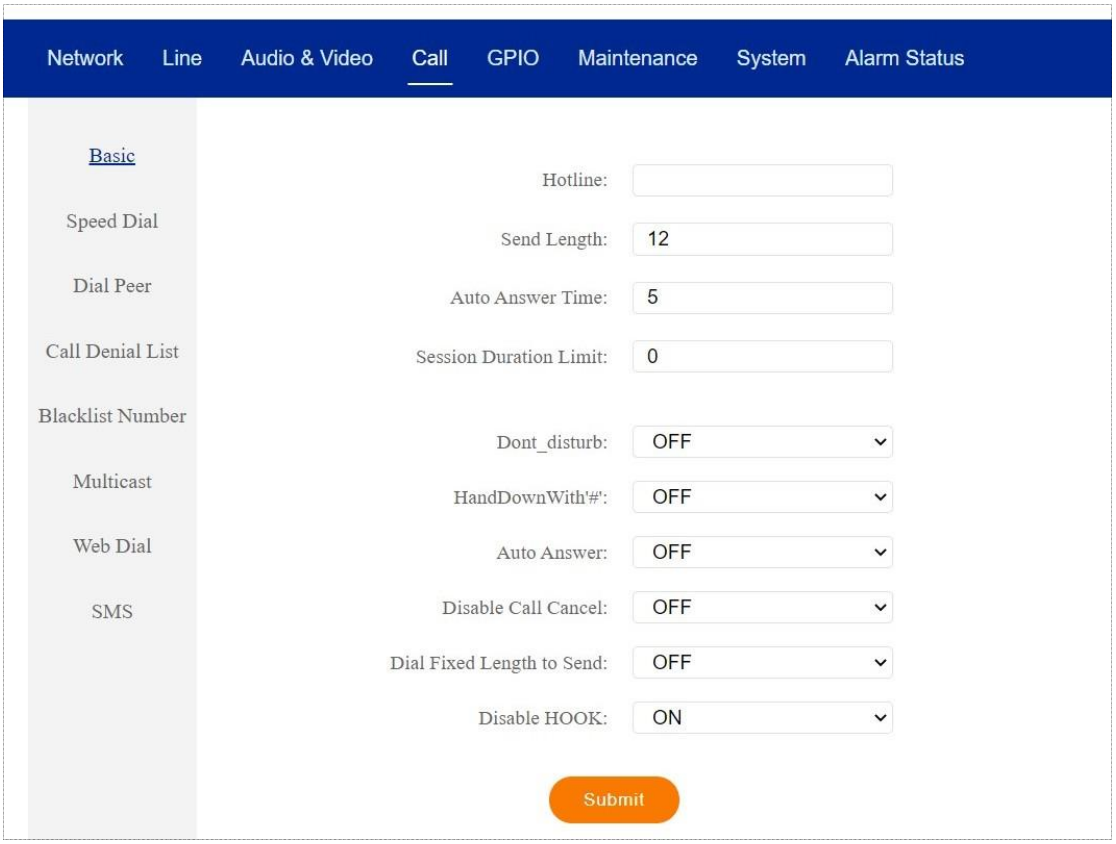
# 5 Call Settings

## 5.1 Basic Settings




| | |
|---|---|
| Hotline: | Hotline number, when you pick up handset. (You can call from an IP address like 192.168.1.100:5060) |
| Send Length: | Fixed number length |
| Auto Answer Time(s): | How many seconds after an incoming call is automatically answered. |
| Session duration limit: | Talk time limit (second, 0 for OFF) |
| Dont_disturb | Enable or disable distrub during calling |
| HandDownWith"#": | Press # Hang up |
| Auto Answer: | Enable Automatic call answering |
| Disable Call Cancel | Enable or disable call cancel |
| Dial Fixed Length to Send: | Enable fixed number length number collection |
| Disable HOOK: | Disable HOOK(No Handset) |



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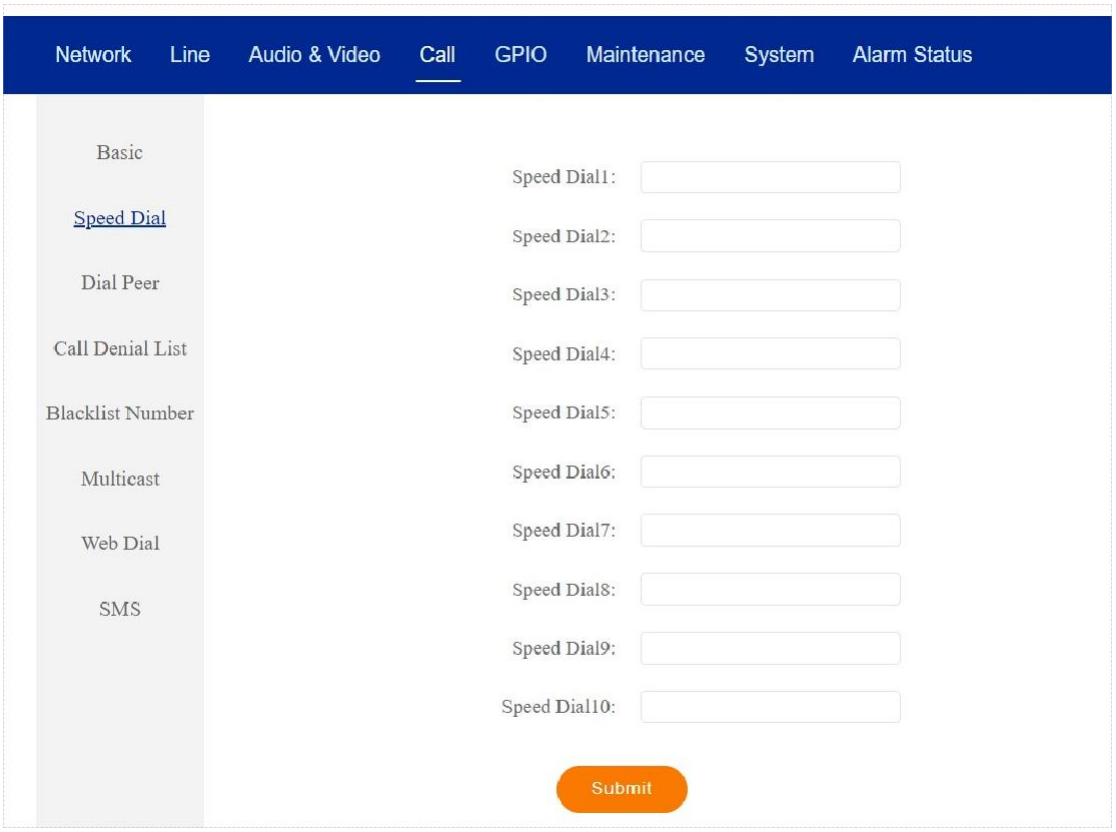
## 5.2 Speed Dial Settings




There are 10 groups of speed dial numbers supported, which can be a IP address (To support IP direct dial).



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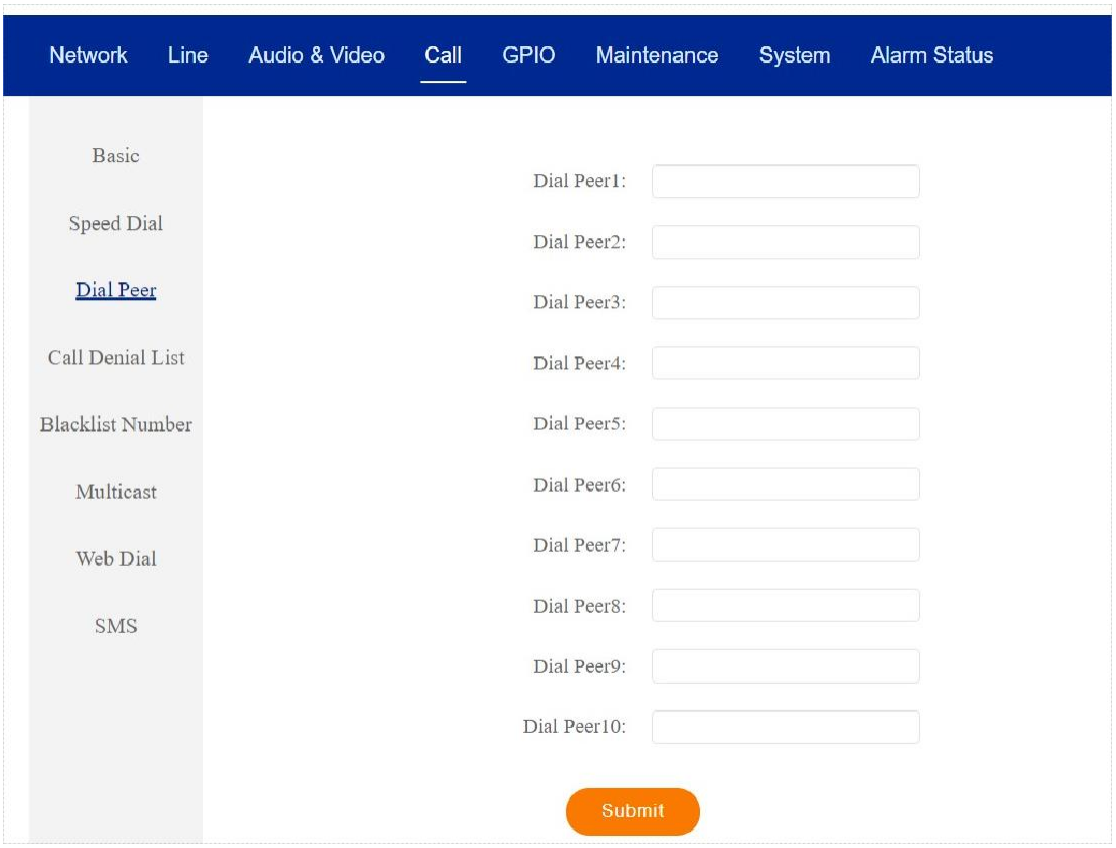
## 5.3 Dail Peer Settings




There are 10 dial number rules. The rules are listed as below:

X: Any number from 0 to 9.

D: Delete the prefix,followed by the delete length.

A: Add the prefix, followed by the add numbers.

For example, if the rule 0755XXXXXXXXD4A9 is set, the number 075512345678 is changed to 912345678.



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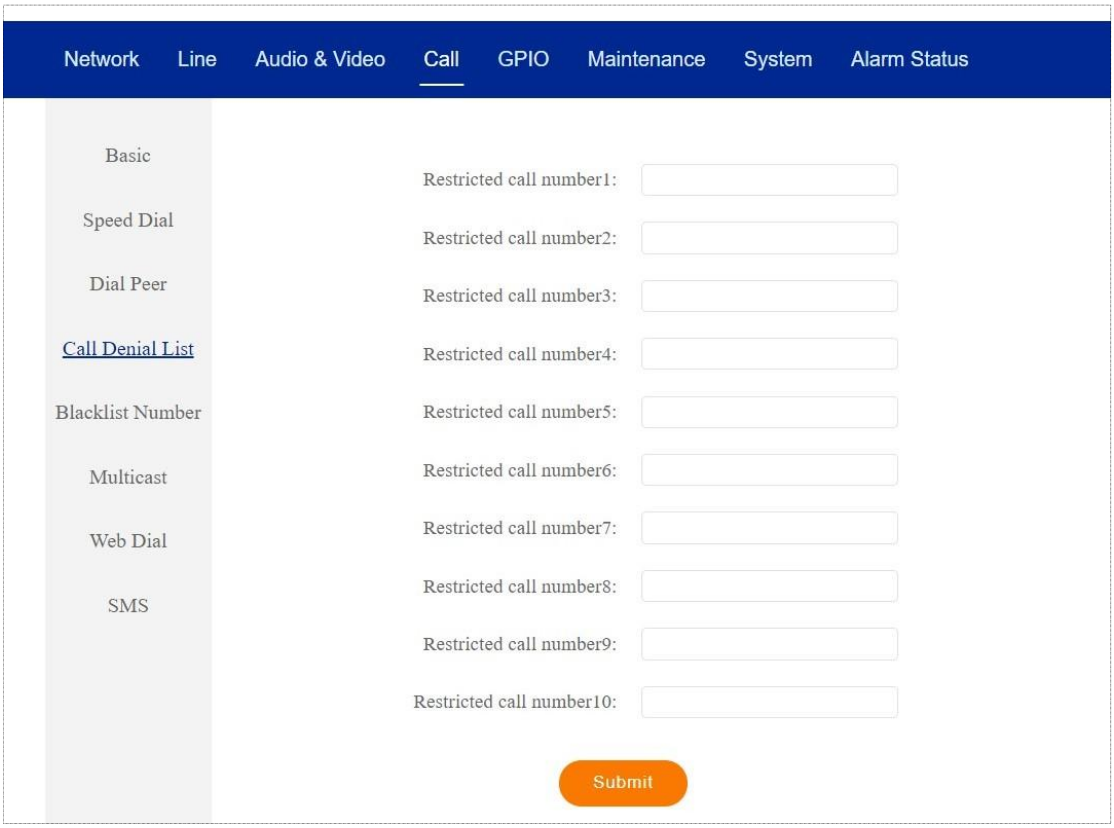
## 5.4 Call Denial List Settings




The specified number cannot be dialed out.



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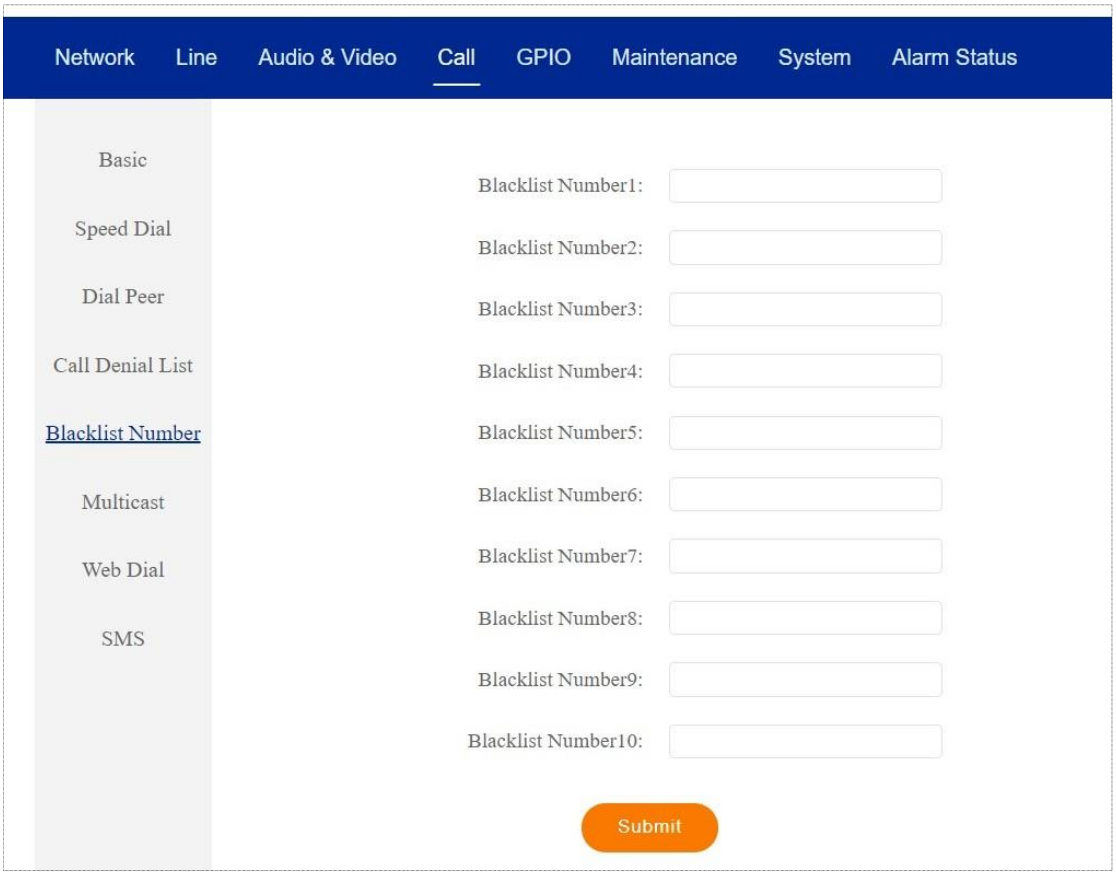
## 5.5 Blacklist Number Settings




Blacklist number. The specified number incoming call will be reject.



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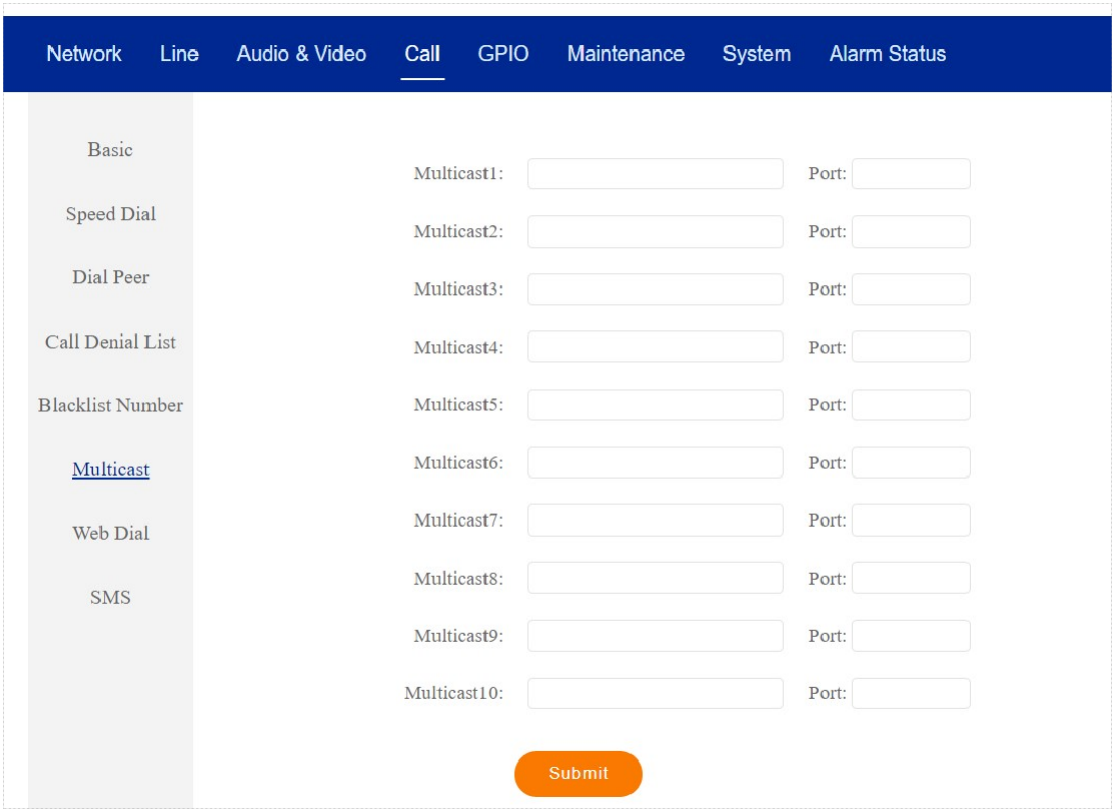
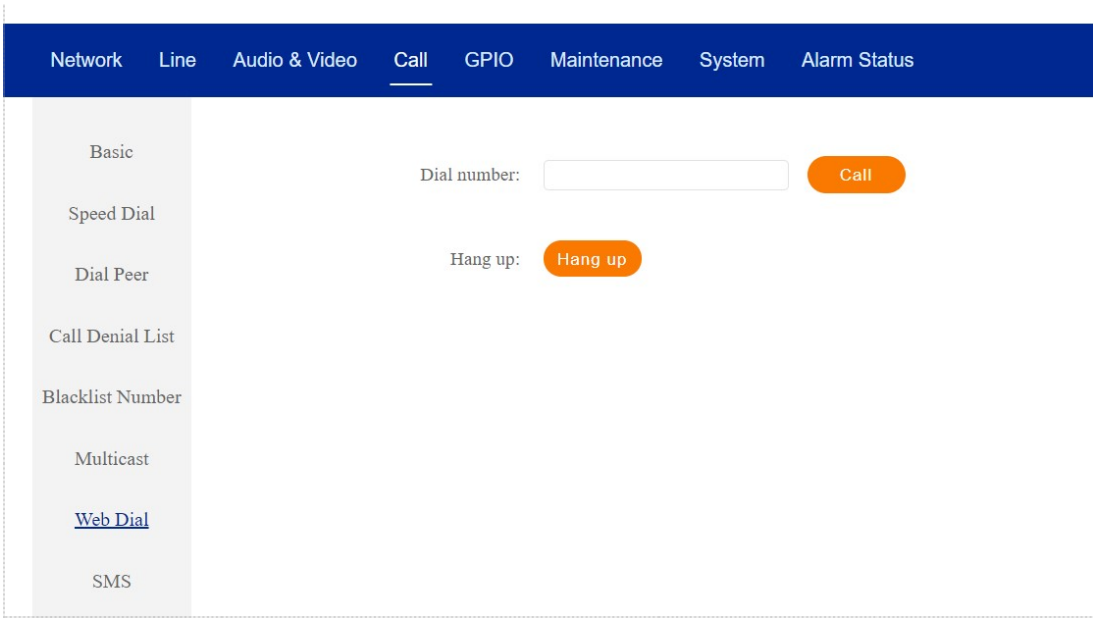
## 5.6 Multicast Settings




Multicast listening address and port. Note that the G722 speech coding is used by default.

## 5.7 Web Dial Setting



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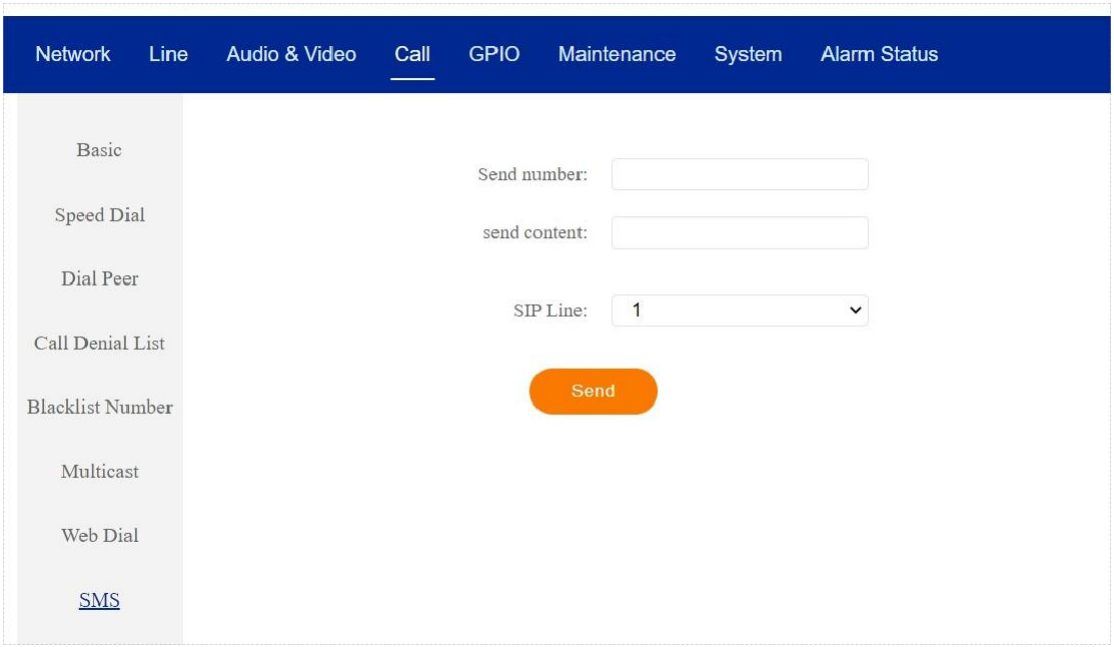
Make or hang up the call through WEB.

## 5.8 SMS Settings




Sending or receiving SMS, limited to 127 characters.



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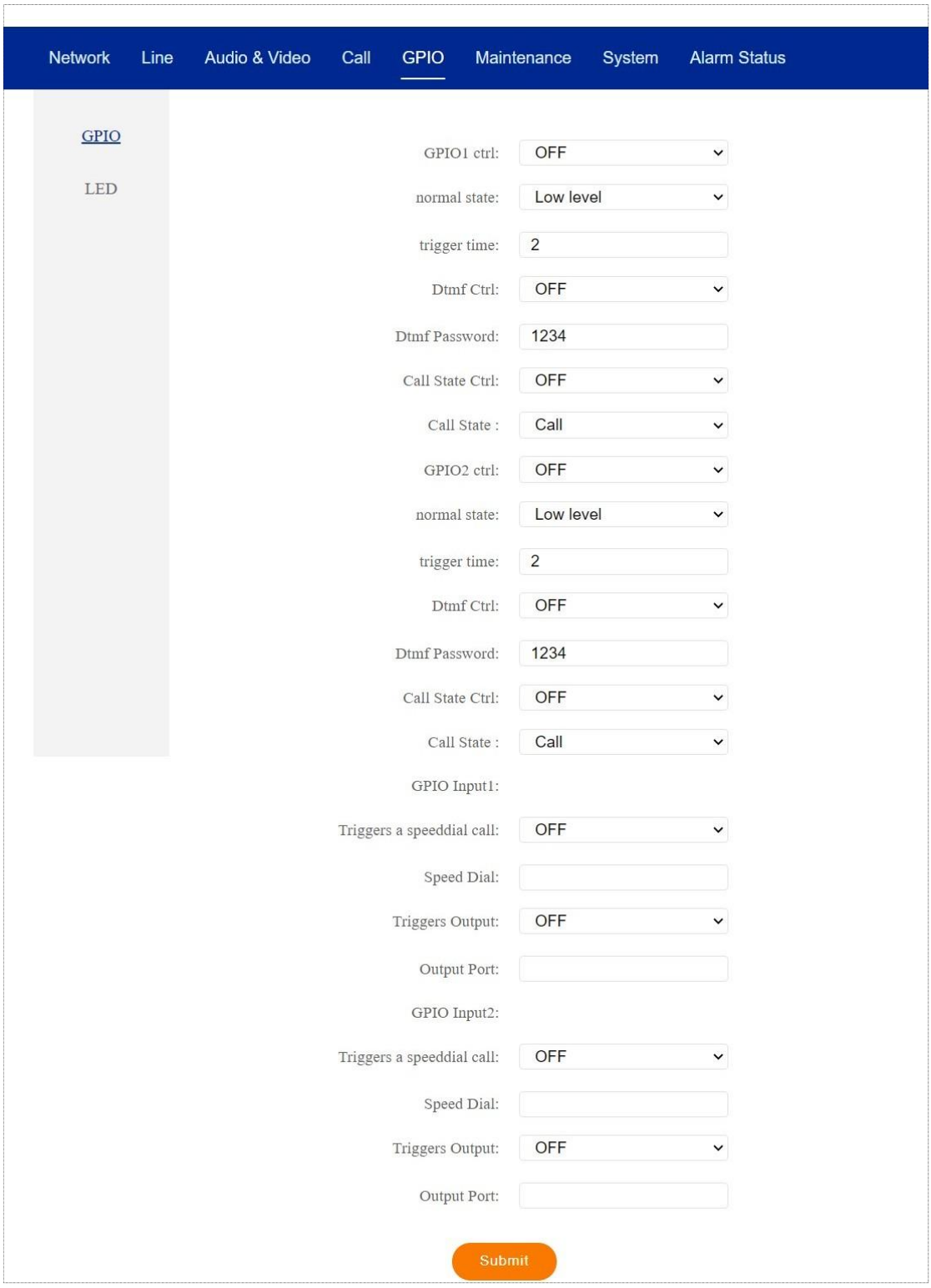
# 6 GPIO Settings

## 6.1 GPIO Settings




| | |
|---|---|
| GPIO Ctrl: | Enable or disable relay GPIO output control |
| Normal state: | Relay GPIO output default status |



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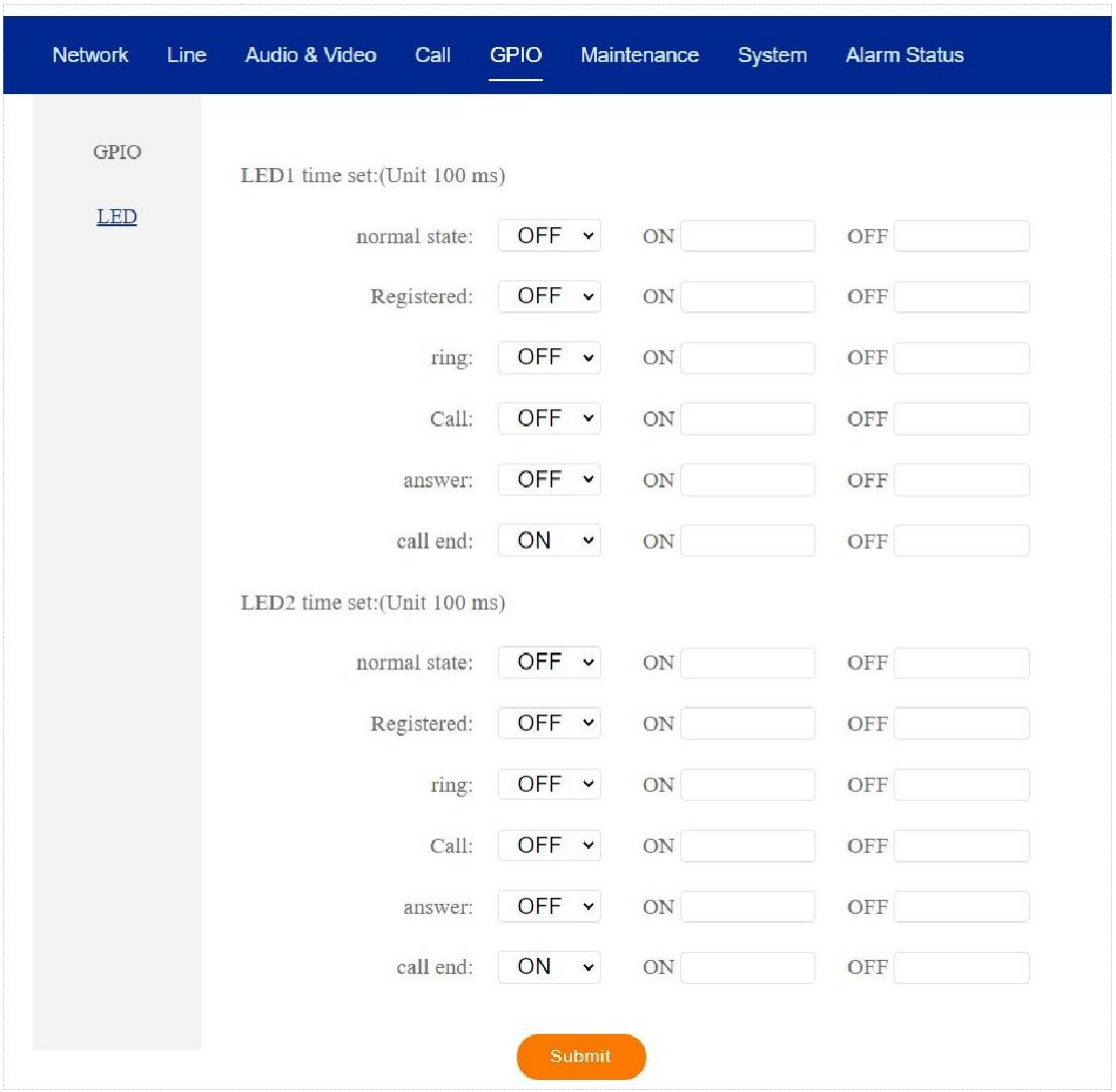
| | |
|---|---|
| Trigger Time: | Relay GPIO output controls the trigger duration |
| Dtmf Ctrl: | Enable DTMF to control the GPIO output port |
| Dtmf Password: | DTMF control password |
| Call State Ctrl: | Enable or disable call status control GPIO |
| Call state Ctrl Type: | Call status type |
| Triggers a speeddial call: | Enable or disable, speed dial is triggered if the input port detects a level change from high to low |
| Speed Dial: | Number of speed dials triggered |
| Triggers Output: | Enable or disable, if the input port detects a level change from high to low, the input port triggers |
| Output Port: | Which number of outlets to trigger |

## 6.2 Led setup page




After the corresponding event occurs, the LED state will be lit or off according to the set time of the command.



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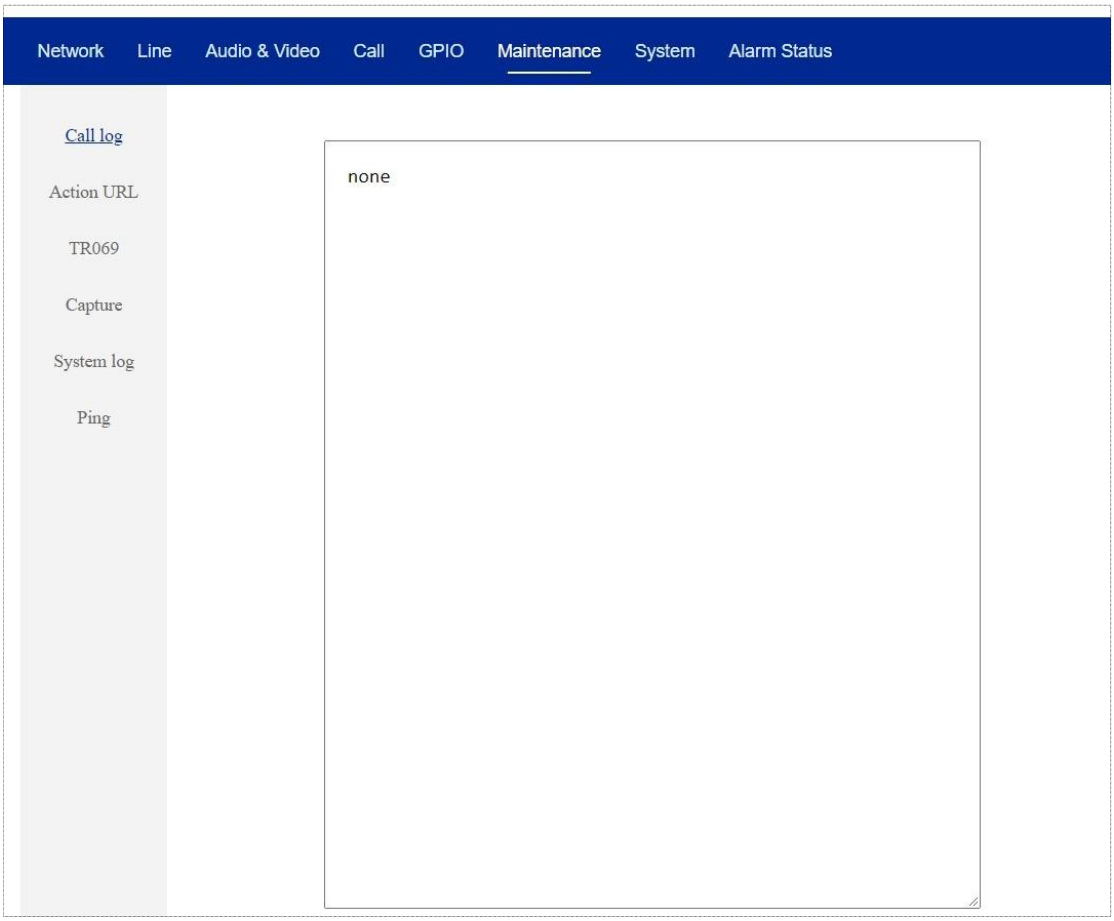
# 7 Maintenance settings

## 7.1 Call Log




A maximum of 100 records can be displayed.



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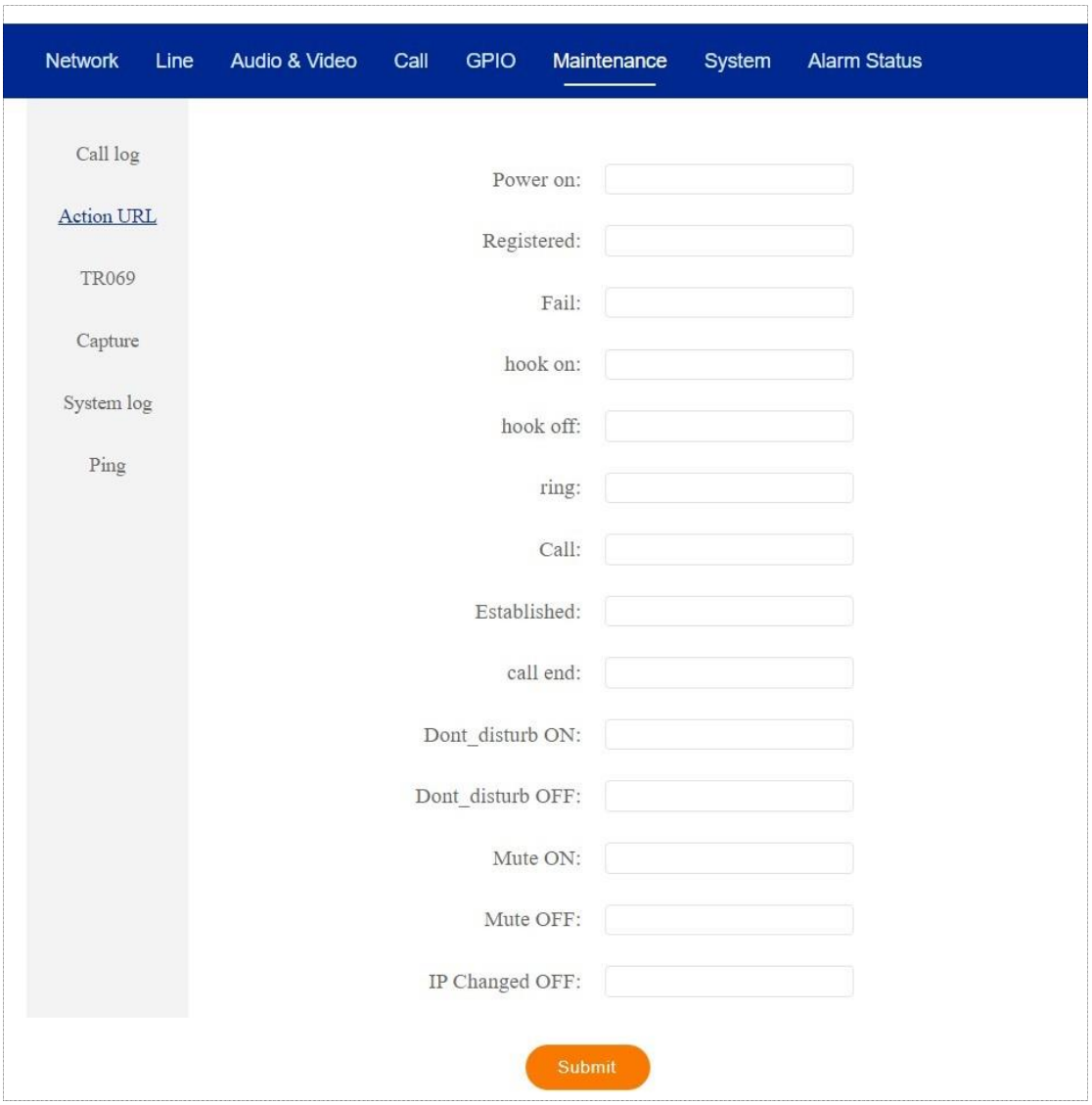
## 7.2 Action url




When the corresponding event occurs, an HTTP message for the instruction is sent to the specified address.



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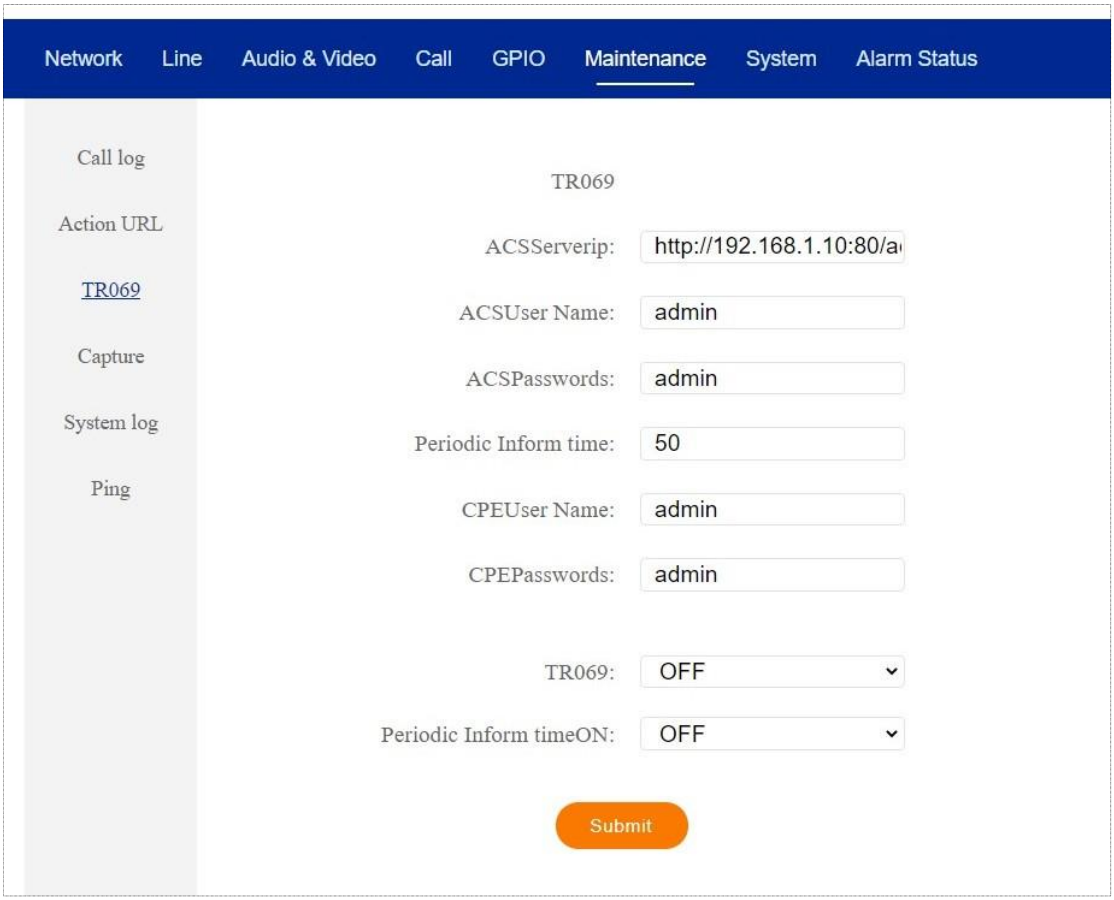
## 7.3 TR069




| | |
|---|---|
| ACS Serverip: | ACS server address |
| ACS User Name: | The ACS server authenticates the user name |
| ACS Passwords: | The ACS server authenticates the password |
| Periodic Inform time: | Periodic packet sending time |
| CPE User Name: | CPE authentication user name |
| CPE Passwords: | CPE authentication password |
| TR069: | Enable or disable TR069 |
| Periodic Inform time ON | Enable or disable Periodic packet sending |



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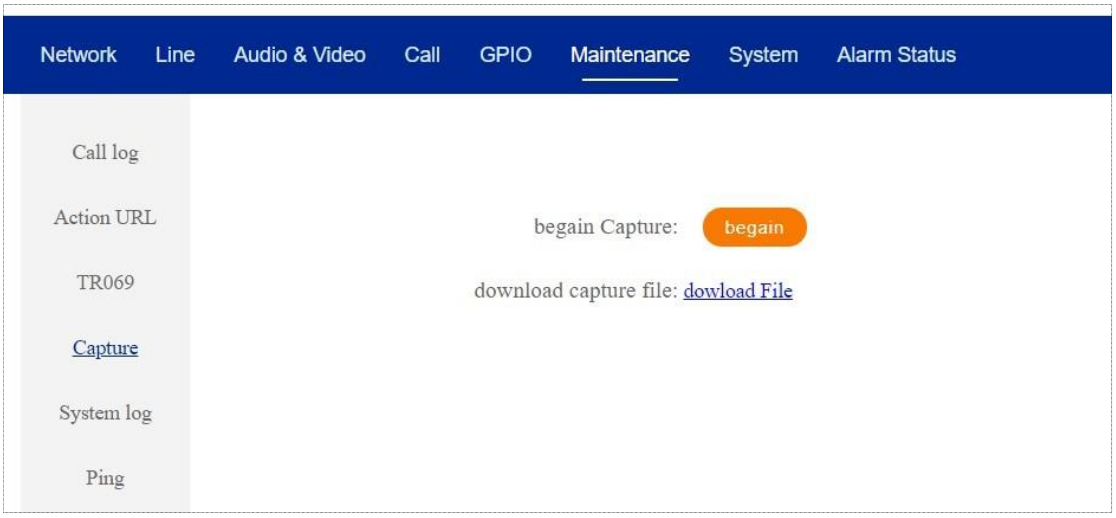
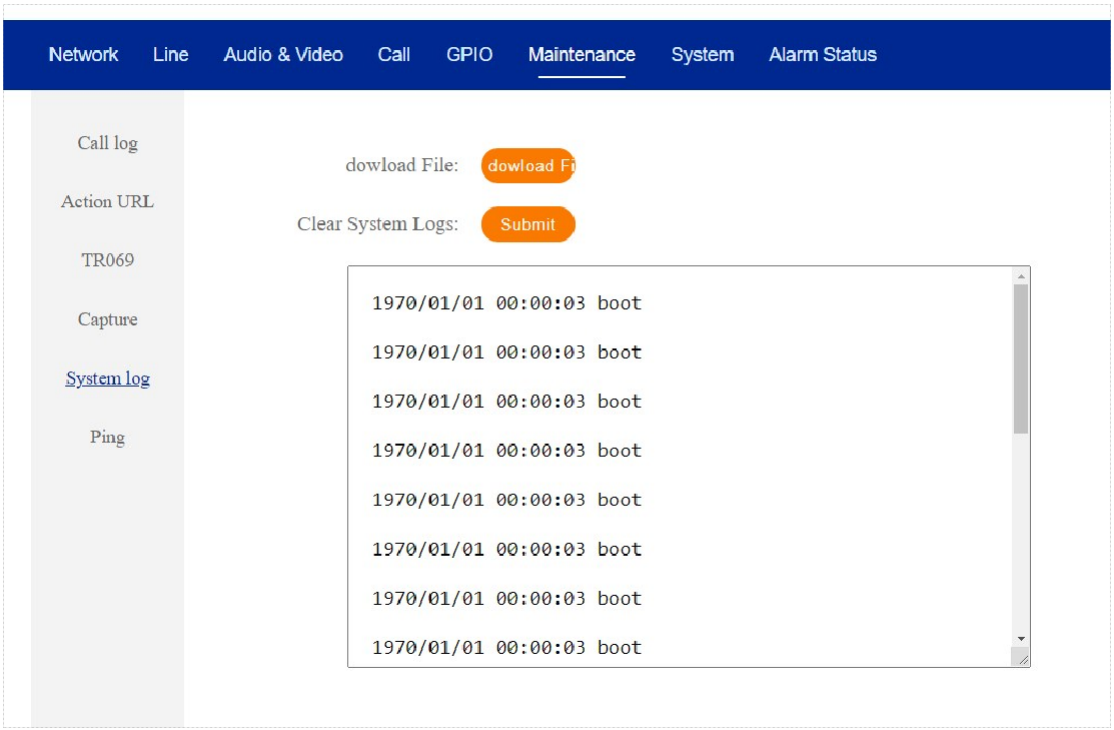
## 7.4 Capture




Analyze network packet capture.

Click the Begin button to start capturing packets, click the stop button to end capturing packets, and click Download file to download the packets to the computer for analysis.

## 7.5 System Log




WEB debugging is used to analyze problems.



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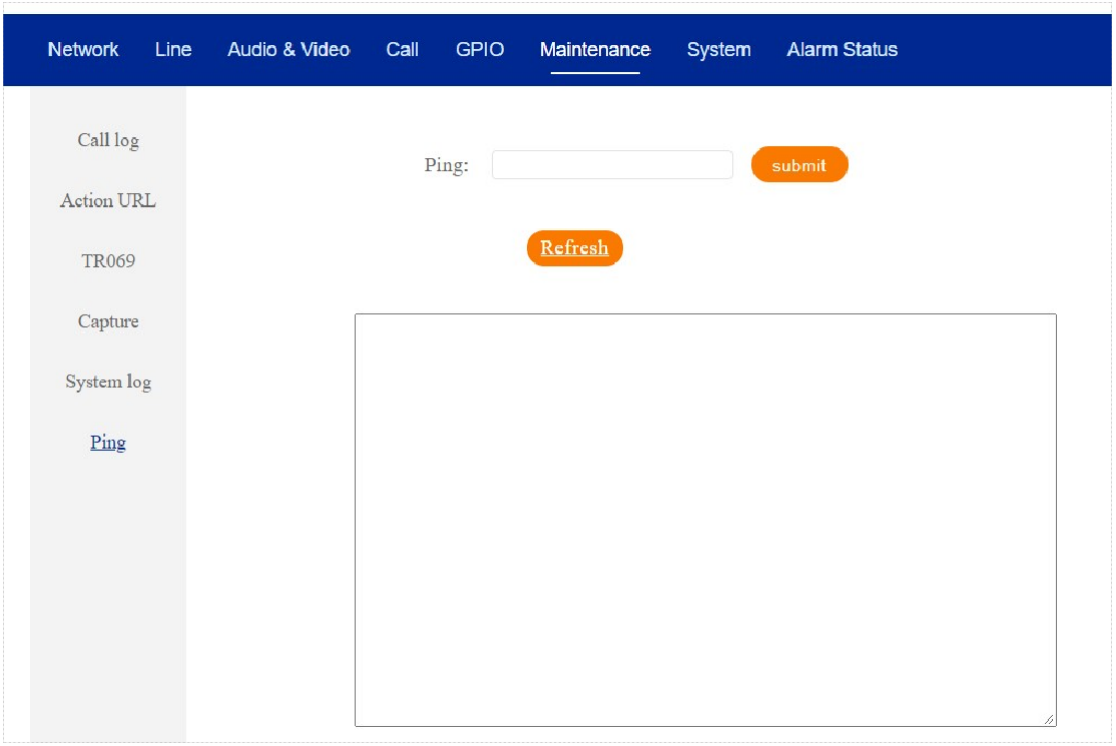
## 7.6 Ping




Assist in analyzing network problems.



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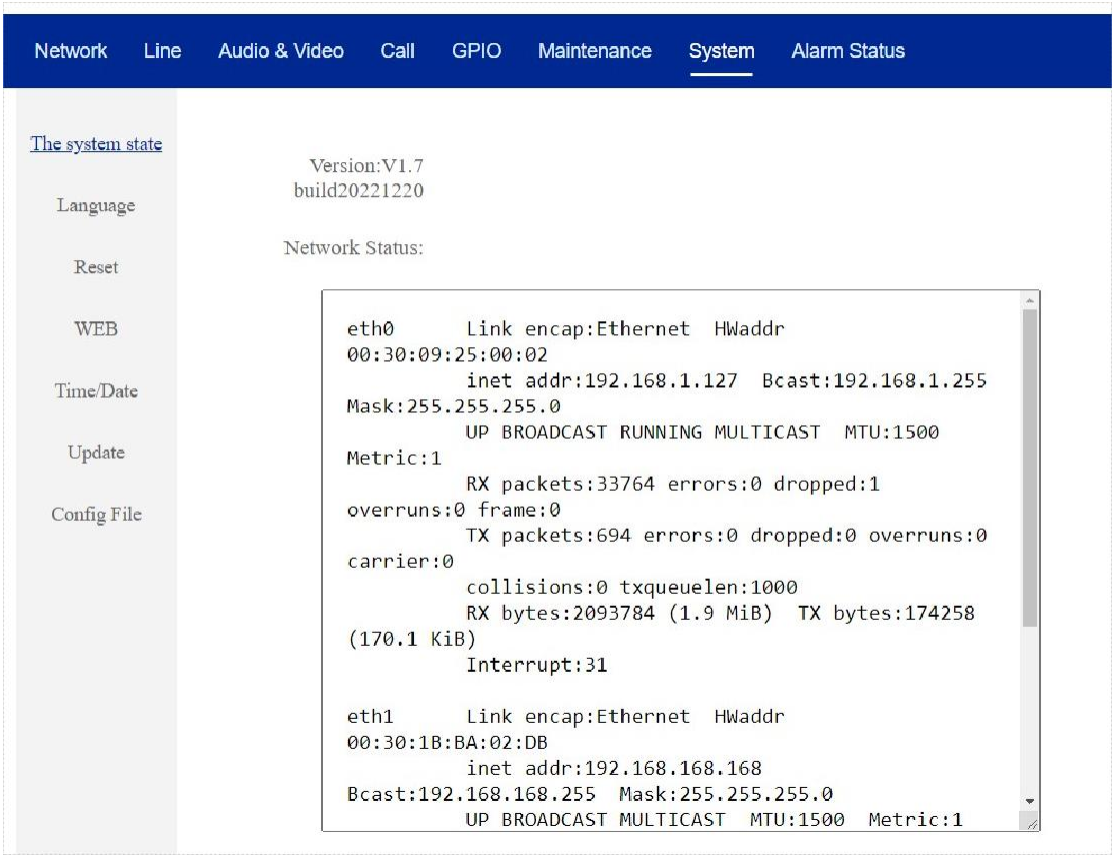
# 8 System Settings

## 8.1 System State



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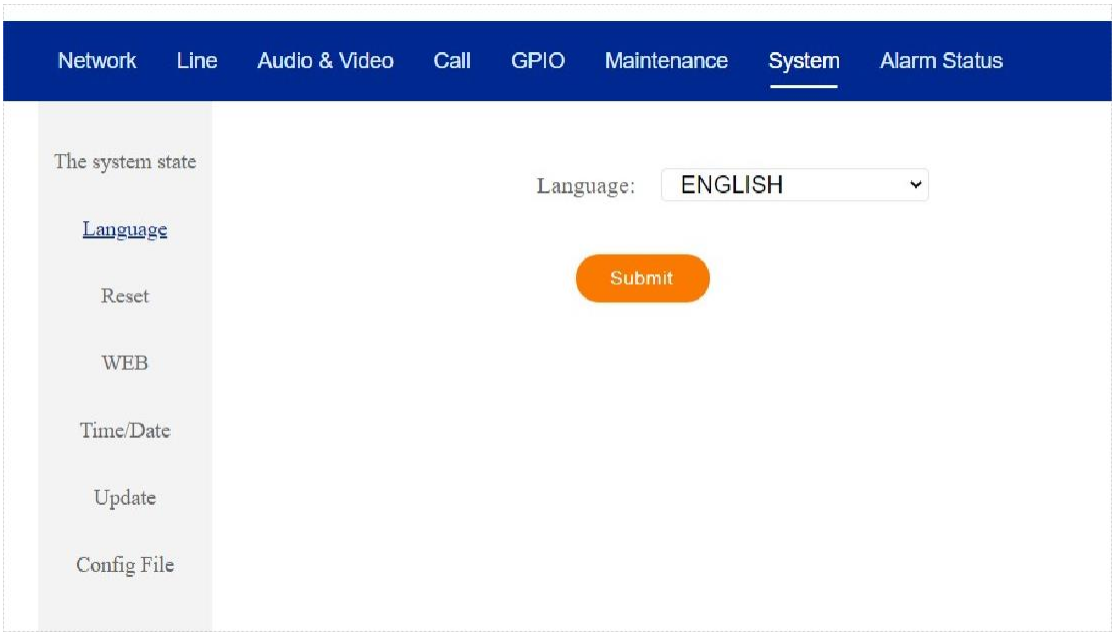
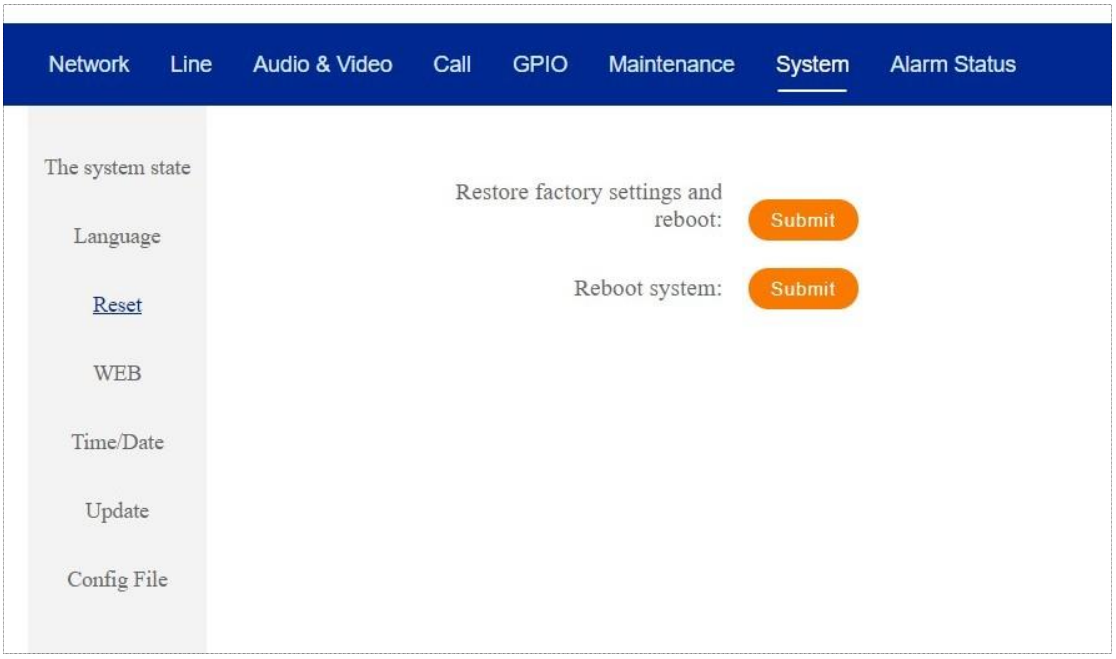
## 8.2 Language Settings




## 8.3 Reset Settings



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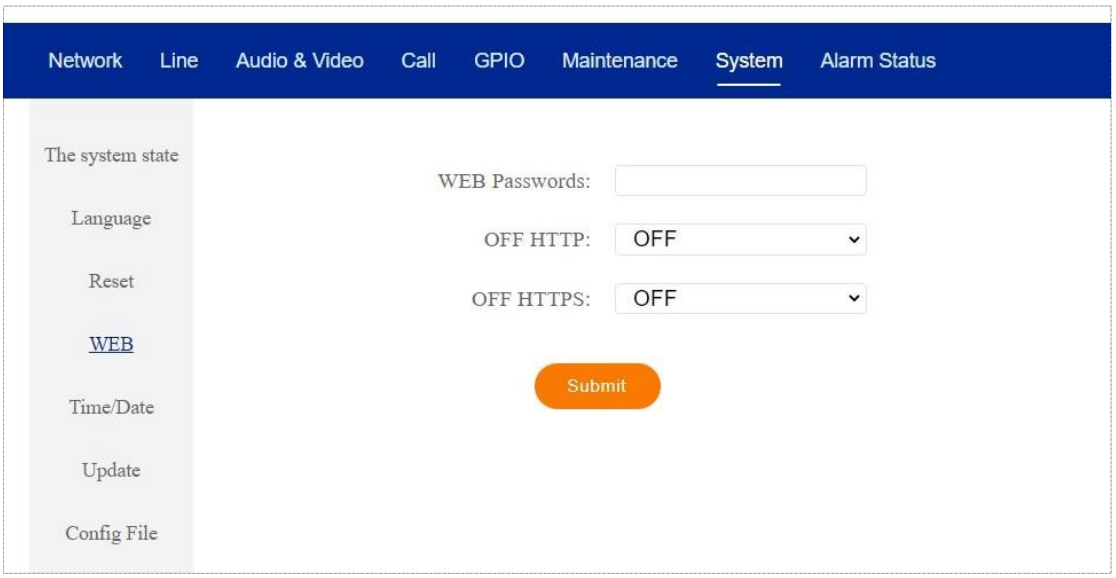
## 8.4 Web Settings




WEB login password. The default password is “admin”.

Enabled or disabled the HTTP or HTTPS service.

**Warning:** If you close them all, you will not be able to access the WEB Settings page.(In this case, to restore the HTTP or HTTPS function, perform the following operations: Press * to power on the device.)



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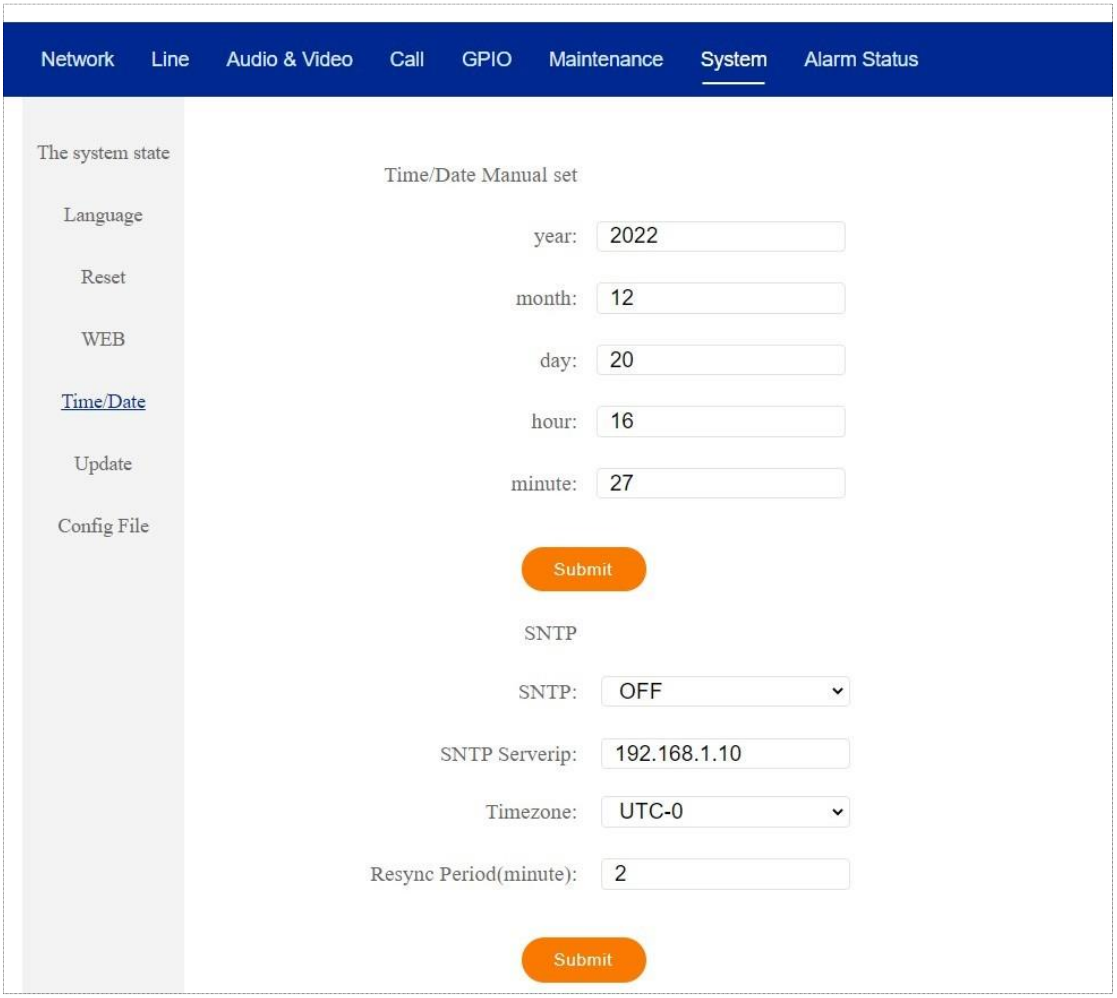
## 8.5 Time/Date Settings




You can manually set the date and time on this page.

| | |
|---|---|
| SNTP: | Enable or disable SNTP |
| SNTP Serverip: | IP address of the SNTP server |
| Timezone: | Time zone |
| Resync Period(minute): | Time correction period |

Automatically obtain network time on SNTP server.



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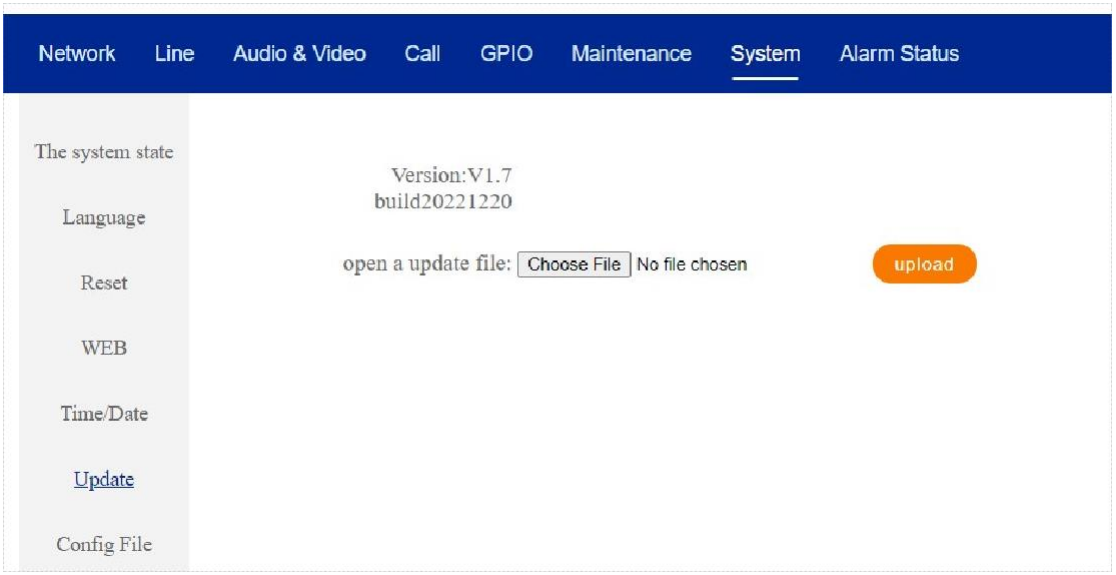
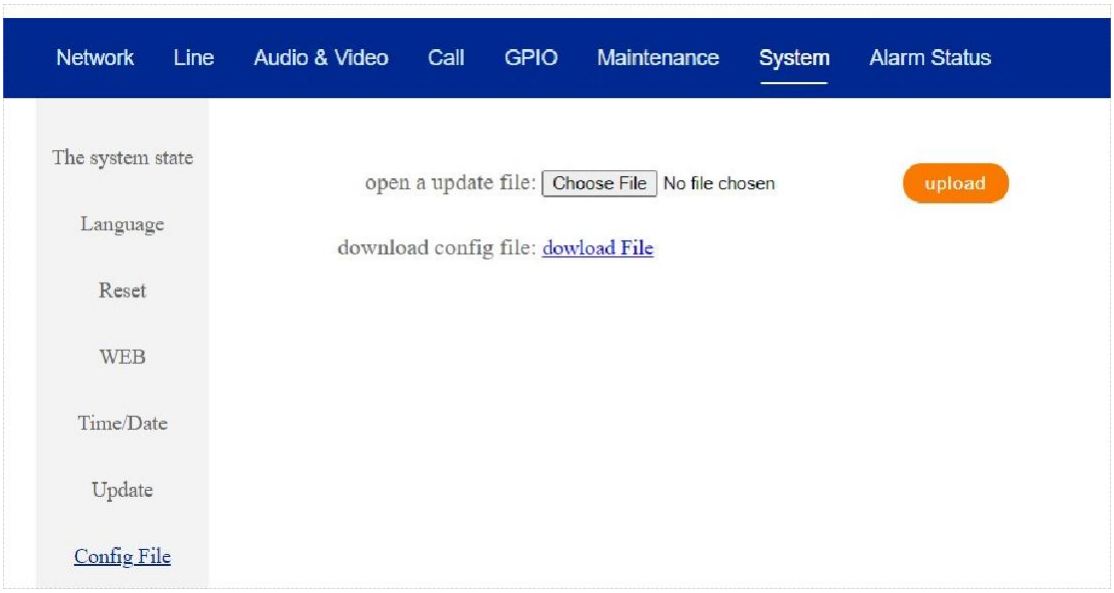
## 8.6 Upgrade




This is where you can load the firmware you want to upload. The upgrade takes about 1 minute and will restart automatically after the upgrade is complete.

**Note** that the name of the firmware upgrade must be “voipfirmware.bin”.Otherwise, the system will not be upgraded.

## 8.7 Config File




You can download the current configuration file and upload the updated configuration file after modification.



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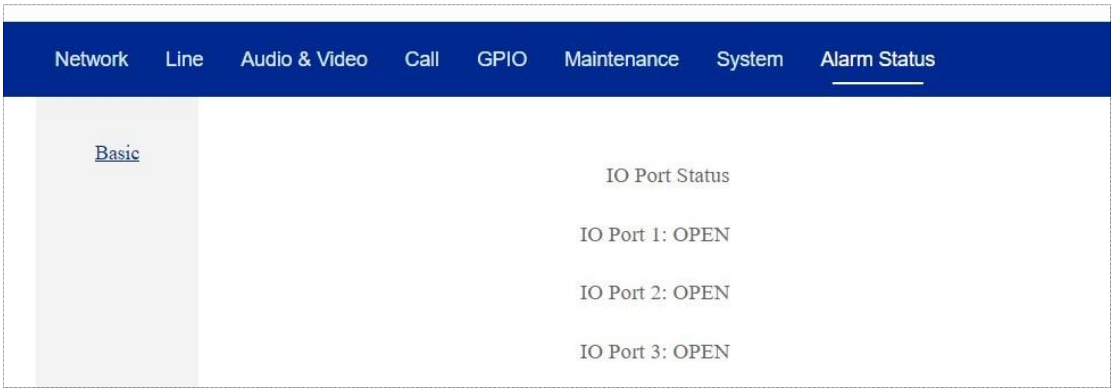
# 9 Alarm Status



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