

Configure LED11 Connected to Akuvox Indoor Monitor

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 Focus

LED11 is an external visual and audible indicator device that connects to Akuvox indoor monitors via RS485 interface. It is used to provide real-time status feedback such as alarm events and system disarm states through LED signals and optional buzzer alerts.

By integrating LED11 with the indoor monitor, the system can deliver enhanced visual and audio notifications for security-related events, improving situational awareness in residential or commercial environments.

This guide explains how to wire, configure, and control LED11 using both local device settings and HTTP API commands.

Before You Start

Before installing and configuring LED11, ensure the following requirements are met to guarantee stable RS485 communication and proper device operation.

Prerequisites

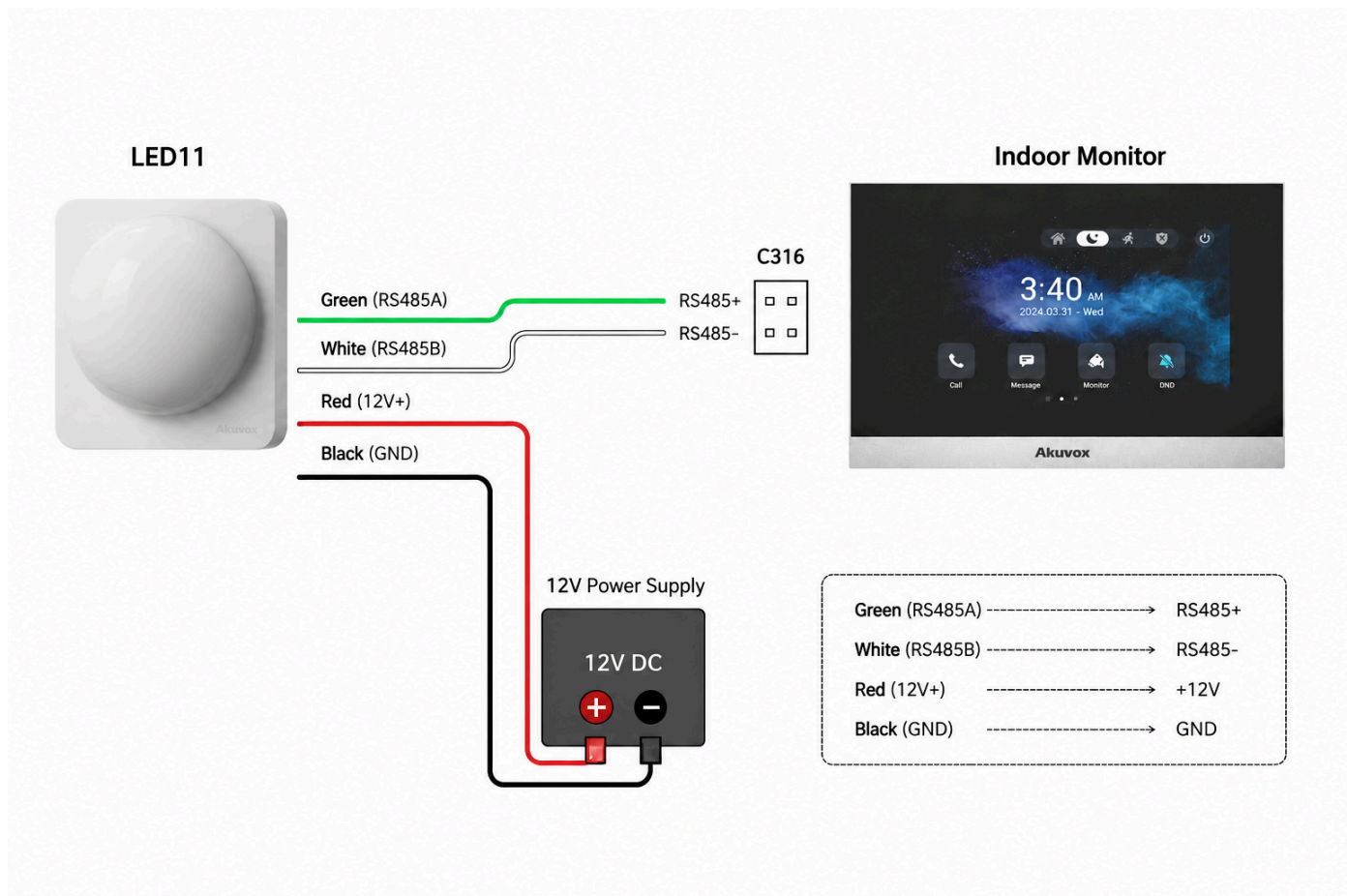
- The indoor monitor must support the LED11 external relay function via the RS485 interface.
- Device firmware must meet the minimum version listed in the compatibility table.
- A stable 12V DC power supply is required for LED11.
- RS485 wiring must follow the correct polarity (A/B) between LED11 and the indoor monitor.
- Ensure the device is powered off before wiring installation to avoid elect



Wiring



Please refer to the wiring diagram below for the correct connection.



Note

- LED11 is a low-voltage device and must only be powered by a regulated 12V DC supply.
- Do not connect LED11 directly to AC power sources.
- Ensure all wiring connections are secure before powering on the system.

Compatible Models and Minimum Firmware Version

Model	Minimum Version
C316	316.30.15.203
IT88	88.30.15.201
S562	562.30.16.144
S563	563.30.15.207



X937

937.30.15.501

This article uses C316 as an example.

Configuration

1. Navigate to the device IP in a browser. Log in with the default credentials (admin/admin) unless they have been changed.
2. Go to **Device > External Relay**.
3. Set **Type** to **LED11**.
4. Enable LED11 status for event types:
 - Alarm Triggered
 - System Disarmed
5. Configure LED behavior settings such as Light, Color, Light Mode, and Buzzer according to requirements.

Device » External Relay

External Relay ⓘ

Type: LED11 ⓘ

Mode: RS485 ⓘ

Type	Status	Light	Color	Light Mode	Buzzer
Alarm	Enabled ▼	On ▼	Red ▼	Blink ▼	Enabled ▼
Disarmed	Enabled ▼	Off ▼	Red ▼	Steady ▼	Disabled ▼

Cancel Submit

6. Click Submit.

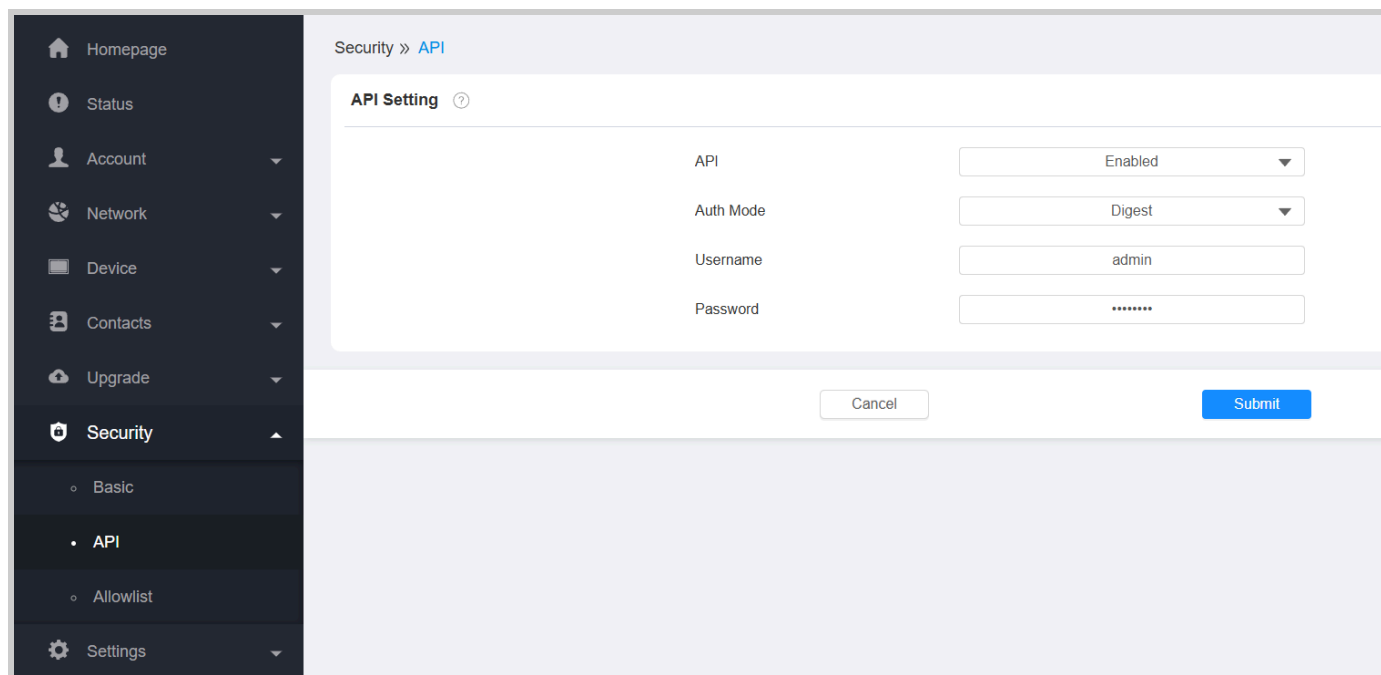


API Configuration (Remote Control)

After enabling the API feature, the indoor monitor allows external systems to trigger LED status changes and buzzer actions through HTTP requests.

1. Go to **Security > API**.

2. Enable the API feature.
3. Select the required authentication mode.
4. Set API username and password.



The screenshot shows a web interface with a dark sidebar on the left containing navigation links: Homepage, Status, Account, Network, Device, Contacts, Upgrade, Security (selected), Basic, API (selected), Allowlist, and Settings. The main content area is titled 'Security » API' and contains an 'API Setting' form. The form has four fields: 'API' (a dropdown menu set to 'Enabled'), 'Auth Mode' (a dropdown menu set to 'Digest'), 'Username' (a text input field containing 'admin'), and 'Password' (a password input field with masked characters). At the bottom of the form are 'Cancel' and 'Submit' buttons.

5. Click Submit.

API Command Example

Base URL:



A text box containing the base URL: `https://{device_ip}/api/thirdpart/led11_control`. A 'COPY' button with a clipboard icon is located in the top right corner.

Example Request:



A text box containing an example request URL: `https://192.168.31.187/api/thirdpart/led11_control?address=00000000000000000000000000000000`. A 'COPY' button with a clipboard icon is in the top right corner. A small, colorful robot icon is positioned at the bottom right of the text box.

Parameters

Parameter	Description
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device_ip	IP address of the indoor monitor
color	LED color (red, green, blue, yellow)
mode	LED mode: off, steady, blink
onMs / offMs	ON/OFF duration in milliseconds for blink mode
buzzerMode	Enable or disable the buzzer (on/off)
buzzerOnMs / buzzerOffMs	Buzzer ON/OFF duration in milliseconds



When an alarm is triggered or the system is disarmed, LED11 will respond with the configured light effect and/or buzzer sound.

Troubleshooting

- **LED11 does not respond:** Check RS485 polarity and wiring connection.
- **No LED output:** Verify LED11 is enabled in External Relay settings.
- **API command fails:** Ensure the API is enabled and authentication is correct.
- **Incorrect behavior:** Confirm the firmware version meets minimum requirements.

