



HTTP Remote Alarm Interface

Documentation

Overview

This interface allows remote triggering of device alarm functions, including LED control, sound output, relay control, and optional broadcasting to other devices.

Basic Information

- **Server API:** `http://<DeviceIP>/api/public/index.php/command/alarm`
 - Replace `<DeviceIP>` with the actual device IP

(e.g., `http://192.168.0.100/api/public/index.php/command/alarm`)
- **Method:** POST
- **Content-Type:** application/json
- **Encoding:** UTF-8
- **Authentication:** Basic Auth

Request Parameters (JSON)

Main Parameters

Parameter	Type	Required	Description
<code>led</code>	object	No	LED control settings

Parameter	Type	Required	Description
<code>sound</code>	object	No	Sound control settings
<code>gpio_out</code>	object	No	Relay control settings
<code>broadcast_switch</code>	string	No	Broadcast to other devices: "1"=yes, "0"=no

LED Control (`led` object)

Parameter	Type	Required	Description	Valid Values
<code>color</code>	array	Yes	LED color combination	There are two color schemes based on different hardware: 1. Red, blue, white series: ["red", "blue", "white"] and any combination of 1-3 colors 2. Green blue white series: ["green", "blue", "white"] and any combination of 1-3 colors
<code>type</code>	string	Yes	LED flashing pattern	"steady", "blink", "strobe", "off"
<code>total_duration</code>	string	Yes	Total duration (ms)	Numeric string; "0" represents permanent; When the type is "off", this field is invalid
<code>each_duration</code>	string	No	Cycle duration (ms)	Only required for "blink" or "strobe"

Sound Control (`sound` object)

Parameter	Type	Required	Description	Valid Values
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Parameter	Type	Required	Description	Valid Values
type	string	Yes	Audio type	"default", "custom"
name	string	Yes	Audio file name	Must match files in Audio Settings

Relay Control (`gpio_out` object)

Parameter	Type	Required	Description	Valid Values
type	string	Yes	Output level	"high", "low"
duration	string	Yes	Duration (ms)	String between 20-2000 or 0; "0" represents permanent; This field is only valid when type="high"

Request Example json

```
{
  "led": {
    "color": ["red", "blue", "white"],
    "type": "blink",
    "total_duration": "10000",
    "each_duration": "1000"
  },
  "sound": {
    "type": "default",
    "name": "StopIt.wav"
  },
  "gpio_out": {
    "type": "high",
```



```
        "duration": "200"
    },
    "broadcast_switch": "0"
}
```

Response Parameters

Parameter	Type	Description
code	number	"1" for success, other values for failure
msg	string	Error description (empty if success)

Response Examples json

Success:

```
{
  "code": 1,
  "msg": ""
}
```

Failure:

```
{
  "code": 401,
  "msg": "Unauthorized"
}
```

Usage Notes

1. Basic Auth authentication is required (use device username/password)



2. Omit parameter objects for functions not needed (e.g., omit `led` if not controlling LEDs)
3. Must include at least one control parameter from `led`, `sound`, and `gpio_out`
4. All numeric parameters must be passed as strings (e.g., `"total_duration": "10000"`)
5. Audio files must use supported filenames from the system