

## How to set Alarm Input & Output in IPC?

### TAGS:

Alarm info, alarm type, alarm report, third-party device, trigger alarm, trigger actions, motion detection alarm, Boolean alarm, common alarm, arming, monostable, bistable

### Answer:

- The camera can receive alarm information from a third-party device. To use this function, you need to configure the following information for alarm input first: port, alarm name, alarm type (normally open or normally closed) and alarm reporting time.
- After alarm output is triggered by a motion detection alarm, Boolean alarm, the camera can output alarm information to the third-party device if alarm output is set correctly to Normally Open or Normally Closed. The alarm output duration is configurable.

Note: Only some certain models support this function. Please see the actual model for details.

Note: This function, management page and supported alarm triggering and arming schedule may vary with models. Please see actual Web interface for details.

### Alarm Input

1. Click **Setup > Events > Common Alarm > Alarm Input**.

The screenshot shows the 'Alarm Input' configuration page. It includes the following sections:

- Select Alarm:** A dropdown menu set to 'Alarm Input 1'.
- Alarm Name:** An empty text input field.
- Alarm ID:** An empty text input field.
- Alarm Type:** A dropdown menu set to 'N.O.'.
- Alarm Input:** Radio buttons for 'On' (selected) and 'Off'.
- Trigger Actions:** A row of checkboxes for 'Alarm Output 1', 'Goto Preset' (set to '1[DOOR]'), 'Upload to FTP', 'Recording', and 'Trigger E-mail'.
- Enable Plan:** A section with 'Armed' (checked) and 'Unarmed' (unchecked) radio buttons, and an 'Edit' button.
- Plan Grid:** A 7x24 grid representing the alarm schedule. The columns are numbered 0 to 24. The rows are labeled with days of the week: Mon, Tue, Wed, Thu, Fri, Sat, and Sun. The entire grid is filled with a blue color, indicating the alarm is active throughout the week.

2. Select alarm and set the alarm name.
3. Select **N.O.** or **N.C.** according to the type of the third-party alarm input device. For example, if the third-party alarm input device is normally open, you need to select **N.O.** here, so that the camera can receive alarm information from the third-party alarm input device.
4. Set actions to be triggered by an input alarm and the plan. For the detailed steps, see the descriptions of alarm-triggered actions in *How to set Motion Detection Alarm* or *Alarm-triggered Action Index*.
5. Click **Save**.

## Alarm Output

1. Click **Setup > Events > Common Alarm > Alarm Output**.

Select Alarm: Alarm Output 1

Alarm Name:

Default Status: N.O.

Delay(s): 30

Relay Mode: Monostable

Enable Plan

Armed  Unarmed Edit

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Mon	Blue																								
Tue	Blue																								
Wed	Blue																								
Thu	Blue																								
Fri	Blue																								
Sat	Blue																								
Sun	Blue																								

2. Select the alarm and set the alarm name.
3. Set the status to **N.O.** (default setting) and set the alarm duration.
4. Set relay mode to better adapt to third-party alarm devices like alarm lights. Please select the trigger mode according to your third-party alarm device.

Item	Description
Monostable	The alarm output triggers the third-party alarm device by pulse.
Bistable	The alarm output triggers the third-party alarm device by high or low level.

5. Set actions to be triggered by an alarm and the plan. For the detailed steps, see the descriptions of alarm-triggered actions in *How to set the Motion Detection Alarm parameter* or *Alarm-triggered Action Index*.
6. Click **Save**.

Note: Strictly follow the sequence when powering on the devices to avoid damaging camera components:

1. Check that the alarm type is set to Normally Open (default setting), and that the camera and the alarm output device are powered off.
2. After completing the connection, power on the camera first and then power on the alarm output device.