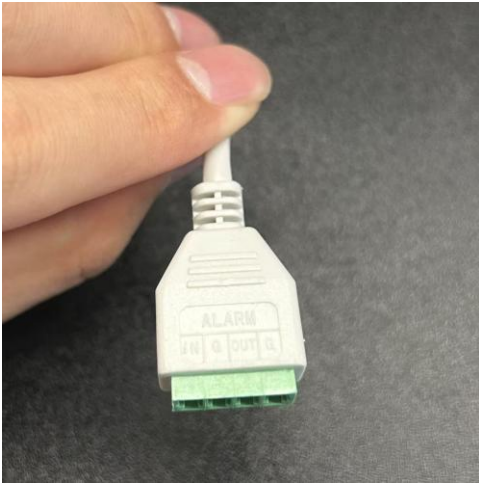

How to use Alarm in and Alarm Out

ALARM IN

When an external device, like a sensor, detects any event, it can trigger an action on the camera or NVR, like sending email, recording, sending snapshots to FTP, etc.

Here, taking the camera as an example, the logic on the NVR is the same.

Please read carefully and use the correct port (different products may have different alarm terminals; please refer to the real product).

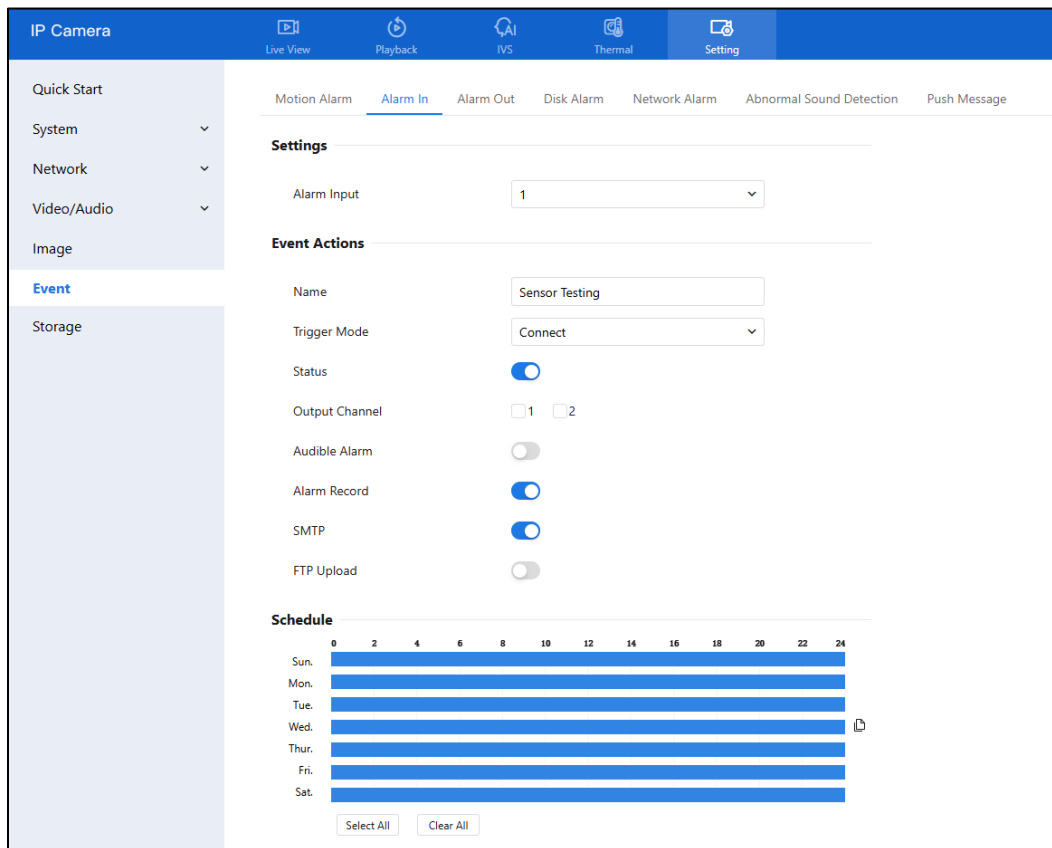


(G means common ground)

How to connect the alarm input?



Go to [Setting](#) > [Event](#) > [Alarm in](#).



- **Alarm input** – Some devices may have multiple physical alarm-in ports. Select the correct channel first.
- **Name** – Name an alarm input source.
- **Trigger Mode**
 - Connect – When the alarm-in connects with the common ground terminal, it will trigger the action on camera.
 - Disconnect – When the alarm-in disconnects with the common ground terminal, it will trigger the action on camera.
- **Status** – Enable or Disable alarm-in function.
- **Output Channel** – Camera will trigger another external device, like a strobe or siren on alarm output ports.
- **Audible Alarm** – Camera will display the selected audios by built-in or external speaker.
- **Alarm Record** – Camera will record the video to the SD card.
- **SMTP** – Camera will send an email with a snapshot (Email strategy should be set by going to [Setting](#) > [Network](#) > [Advanced Settings](#) > [SMTP](#) in advance).
- **FTP Upload** – Camera will send a screenshot to the FTP server (FTP strategy should be set by going to [Setting](#) > [Network](#) > [Advanced Settings](#) > [FTP](#) in advance).
- **Schedule** – Set a time schedule for alarm-in.

ALARM OUT

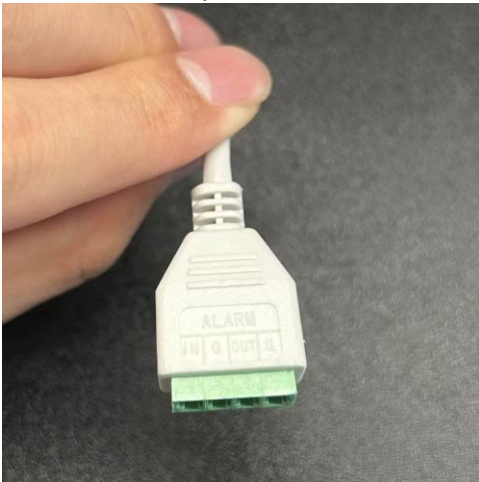
When the camera detects any events, it will trigger an external device, like a strobe or siren on alarm output.

Please note that the alarm out of the IP camera and NVR are dry contact, except for pinhole cameras. Dry contact means that the user should give a power supply to the external device. The pinhole camera is a wet contact that can output 3.3V voltage.

For dry contact use, the external power supply is recommended to be no more than 12VDC 0.5A.

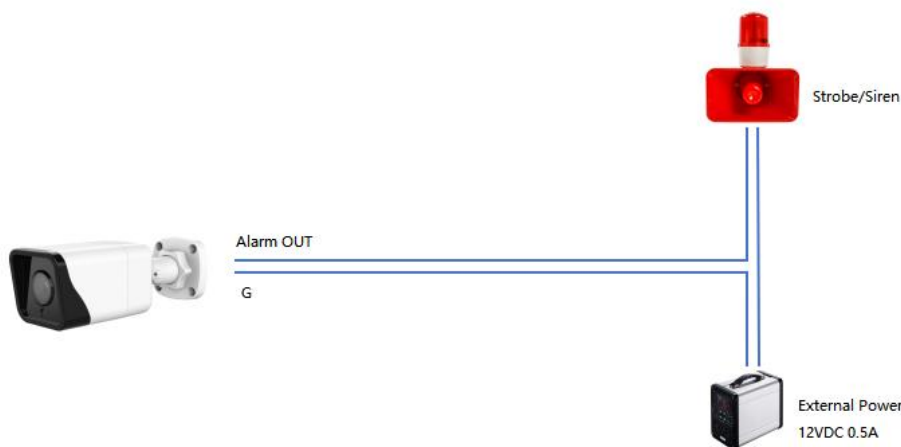
Here, taking the camera as an example, the logic on the NVR is the same.

Please read carefully and use the correct port (different products may have different alarm terminals; please refer to the real product).



(G means common ground)

How to connect an alarm output (dry contact use)?



Go to [Setting](#) > [Event](#) > [Alarm out](#).

The screenshot shows the 'Alarm Out' configuration page in the IP Camera web interface. The page is titled 'IP Camera' and has a navigation bar with 'Live View', 'Playback', 'IVS', 'Thermal', and 'Setting'. The 'Setting' tab is active. The left sidebar shows 'Quick Start', 'System', 'Network', 'Video/Audio', 'Image', 'Event', and 'Storage'. The main content area is titled 'Alarm Out' and has sub-tabs for 'Motion Alarm', 'Alarm In', 'Alarm Out', 'Disk Alarm', 'Network Alarm', 'Abnormal Sound Detection', and 'Push Message'. The 'Alarm Out' sub-tab is selected. The page is divided into sections: 'Settings' with 'Alarm Output' set to '1'; 'Event Actions' with fields for 'Name', 'Valid Signal' (set to 'Close'), 'Alarm Output Mode' (set to 'Switch Mode'), 'Follow Source' (disabled), and 'Alarm Time(ms)(0:Continuous)' set to '0'; 'Schedule' with 'Timing Alarm Output' disabled; and 'Manual Control' with 'Start' and 'Stop' buttons. An 'Apply' button is at the bottom.

- **Alarm output** – Some devices may have multiple physical alarm-out ports. Select the correct channel first.
- **Name** – Name an alarm output.
- **Valid Signal**
 - Close – When the camera detects any event, the camera alarm-out will connect with the common ground terminal. The circuit will form a loop and the external device will start working.
 - Disconnect – When the camera detects any event, the camera alarm-out will disconnect with the common ground terminal. The circuit will be disconnected, and the external device will stop working.
- **Alarm Output Mode**
 - Switch Mode – Either connect or disconnect status during alarm time.
 - Pulse Mode – Connect and disconnect will alternate at a certain frequency.
- **Follow Source**
 - Enable – The signal will last until the event stops.
 - Disable – The signal will last according to a set time period.
- **Schedule**
 - Timing Alarm Output
 - *Enable* – The camera will trigger output according to a time schedule rather than detecting an event.
 - *Disable* – The camera will only trigger output by detecting an event.
 - Manual Control
 - *Start* – Manually start a trigger to output.
 - *Stop* – Manually stop the trigger to output.