Alarm In & Out v1.0

1.1 Alarm Input connection
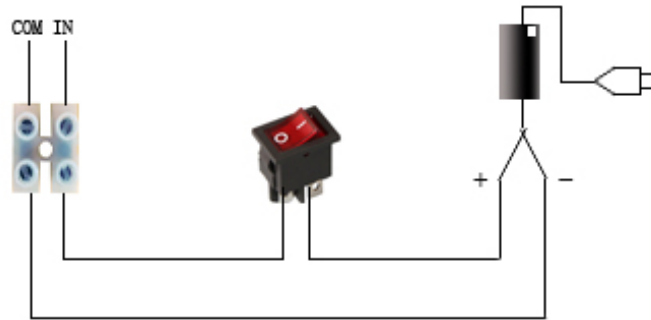
Alarms are optional for network cameras, common is just a one input and one output, PTZ cameras will have more alarm inputs.

Input Connection

Alarm input connection is shown below:

COM = Common represents a 0v or GND Level.

Figure 1-1 Alarm input connection with Voltage Level


IN = Input will contain voltage level input. Voltage range must be with DC5 – DC12V

1.2 Alarm In settings

- **Alarm In:**   Selectable Number 1 for non PTZ Cameras.
- **Name**:   NVMS software alert notification text name.
- **Valid Voltage Level:**   **High**, is normally Close (NC) when device has constant voltage.
  Alarm occurs when break normal voltage flow occurs.
  Low, is normally Open (NO) when circuit has no voltage into device.
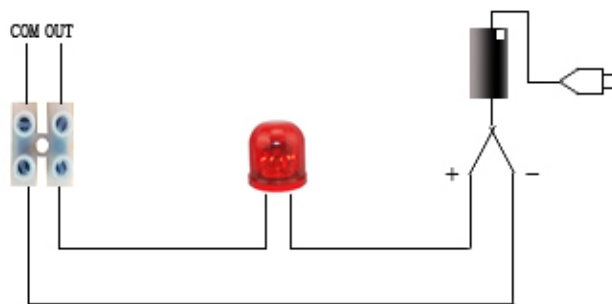 Alarm event when circuit is complete and voltage level enters device.

Web browser Alarm settings.
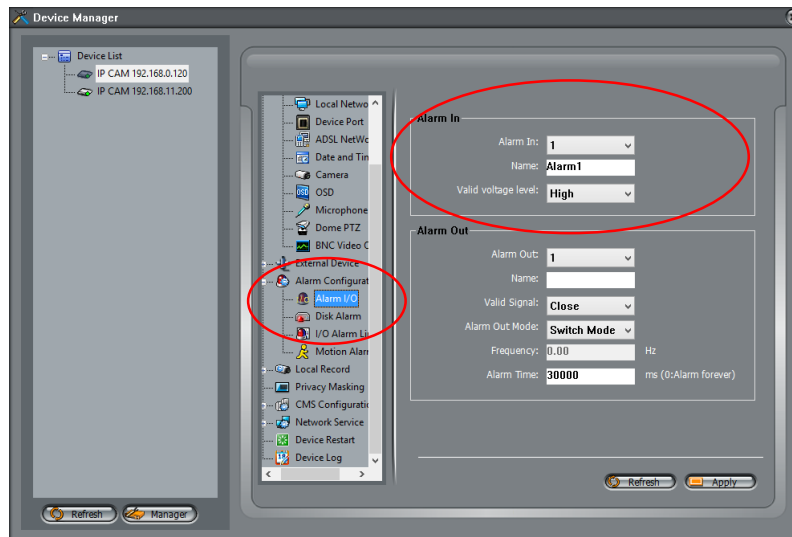
NVMS Application Alarm settings.

1.3 Alarm Output connection

Figure 1-2 Alarm output connection

If alarm output is a one/off switch (no voltage), the external power supply is needed when the camera connects to the alarm. If connected to an external DC power supply, it must be in at DC 12V voltage, with less than 300mA current flow. If connected to an external AC power supply, an external relay is needed. You cannot connect alarm output with an AC power directly to device it will damage the equipment and has the risk of electrical shock.

1.4 Alarm Out settings

In alarm configuration web:

- **Alarm Out:**   Selectable Number 1 normally only available.
- **Name**:   NVMS software event notification text name.
- **Valid Signal:**   **Open or Closed**, is represents the logic to apply to the alarm
- **Alarm Out Mode:** **Switch Mode or Pulse. (typically this only needs to be Switch Mode)**
- **Alarm Time:**   Duration of alarm output signal when triggered**.**
  - Time is in ms (milliseconds 1/1,000 of a second)
  - 1,000 = 1 second, maximum is 86400000 (one d
  - Switch is just a pure local output level applied to the alarm line.
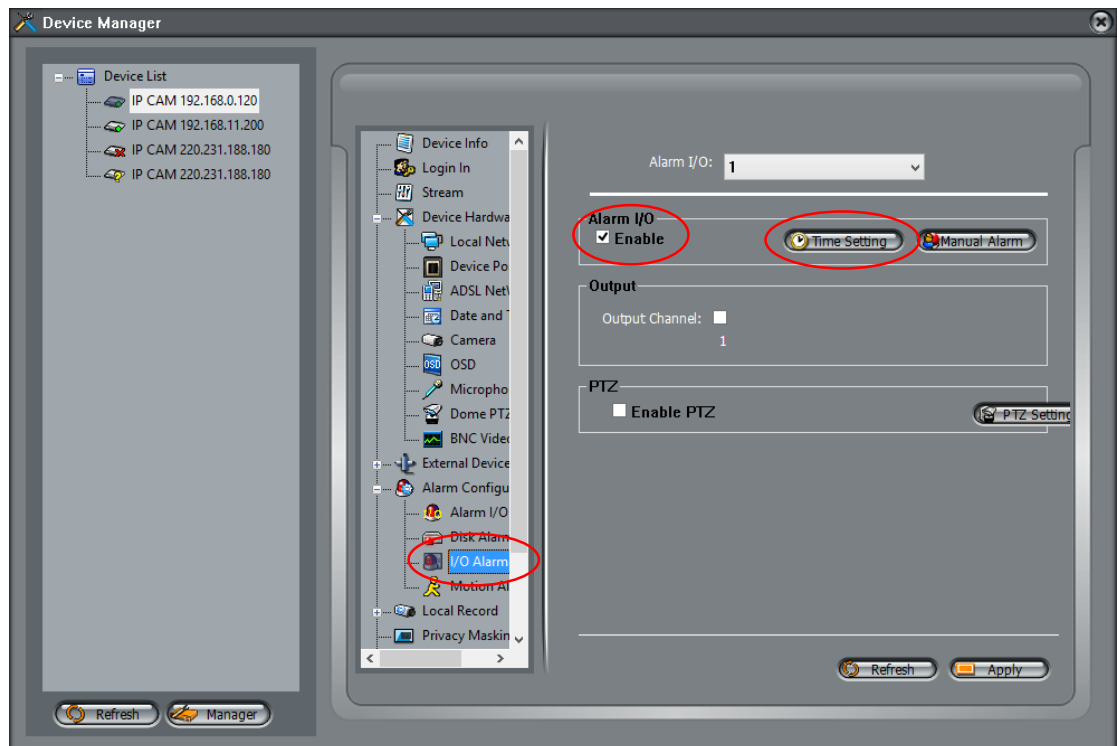 - Pule will send a pulse **Frequency** as set to the output signal.
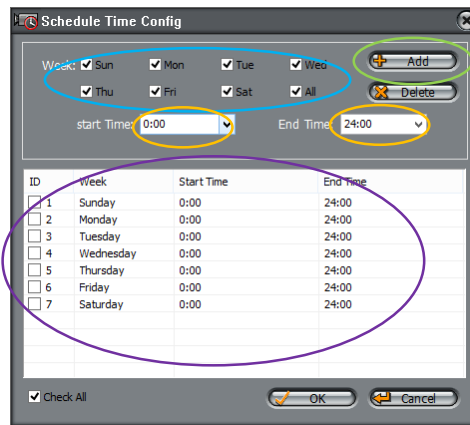
Web browser Alarm settings.
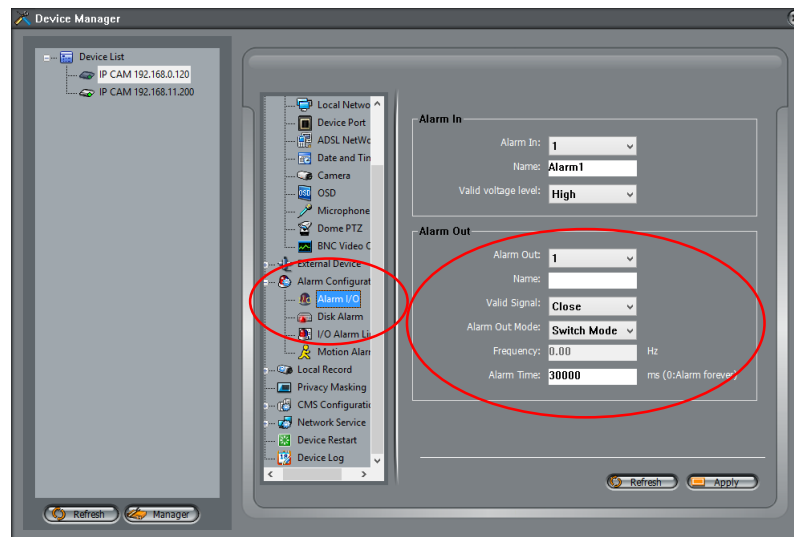
NVMS Application Alarm settings.

1.5 Alarm Schedule

Alarms are only active when the I/O alarm schedule has been enabled and set.

Time Schedule has a simple process to enable. Which lets alarms be enabled only when required. Such as out of hours etc.

Schedules at all set in same fashion with following steps:

1. **Week:** ⬯ Select week number or select **All** for 7 days.
2. **Time:** ⬯ Set the start Time and End Time: values.
3. **Add:** ⬯ Click the + Add will add this to the schedule.

Schedules: ⬯ here shows the current active schedule details, you can delete by ticking any ID number or to remove all select the **Check All** then delete as required.

Alarm notifications are shown on the NVMS application.

With a visual alarm notification, and a click even list to show alarms are happening. Alarm events are enabled by default. Inside the System Manager and **Hint Alarm** setting