



# Milesight-Troubleshooting

Compatibility between Network Optix and Milesight camera

|                |              |        |           |
|----------------|--------------|--------|-----------|
| Camera Version | XX.7.0.78-r1 | Update | 2021.8.27 |
| Camera Version | XX.8.0.1     | Update | 2022.4.19 |

## Part I HTTP Notification between Network Optix and Milesight VCA

### 1. What is Milesight VCA

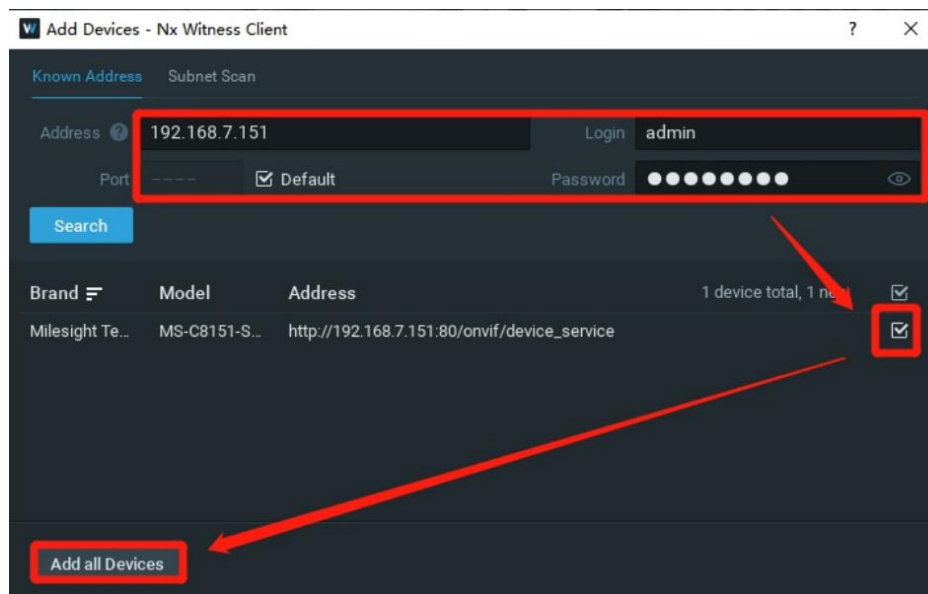
VCA is short for Video Content Analysis. Milesight VCA provides advanced, accurate smart video analysis for Milesight network cameras. It enhances the performance of network cameras through 8 detection modes which are divided into basic function and advanced function, enabling the comprehensive surveillance function and quicker response of cameras to different monitoring scenes. There are 8 detection modes of Milesight VCA as follow.



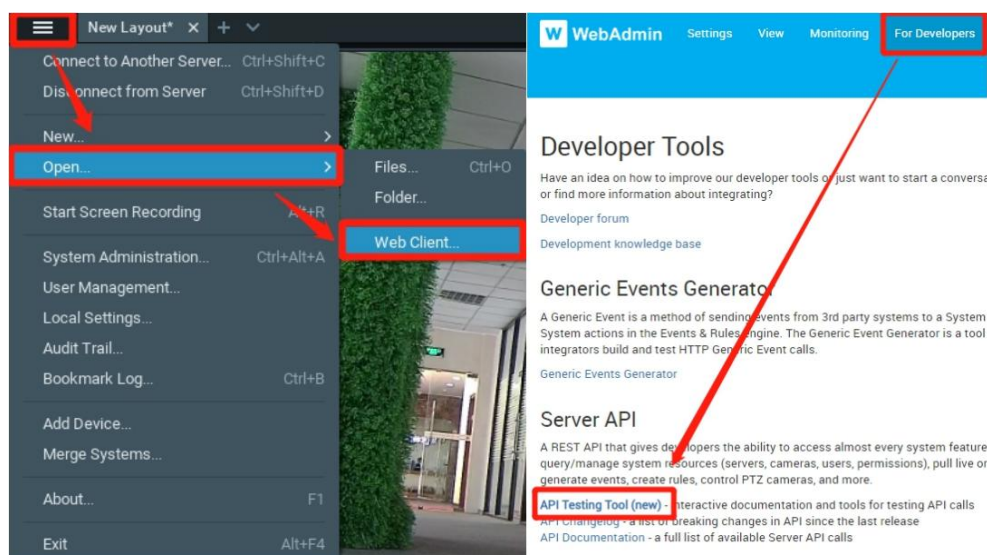
Milesight VCA can work with some third-party VMS like Network Optix by using the HTTP Notification. But how to do the settings? Here we will take Region Entrance as an example.

### 2. How to set up the HTTP Notification between Network Optix and Milesight VCA

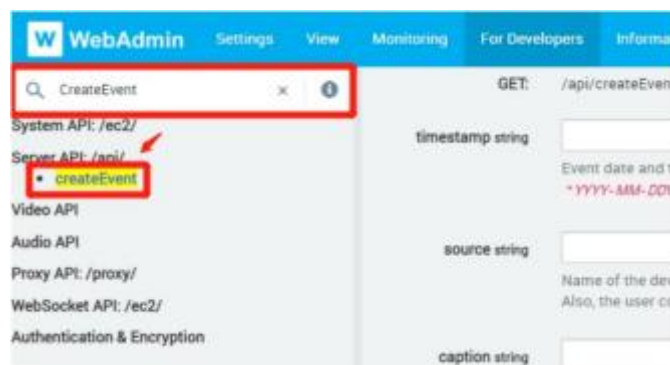
**Step 1:** Adding Milesight Camera in Nx Witness.



**Step 2:** Open Nx Witness Server Web Client, click the tag “For Developers” after logging into Web Client and then open “API Testing Tools(new)”.



Search “CreateEvent” to quickly find the API we want.



**Step 3:** The tool will automatically form Requesting URL after you fill in the content. We use three of these commonly used parameters. Fill in the information you want to send to Nx Witness when the Region Entrance is triggered.

|                    |   |
|--------------------|---|
| source string      | MS-C2961-REOPB<br>Name of the device which has triggered the event. It can be used in a filter in event rules to assign different actions to different devices. Also, the user could see this name in the notifications panel. Example: "POS terminal 5". |
| caption string     | Region Entrance<br>Short event description. It can be used in a filter in event rules to assign actions depending on this text.   |
| description string | Someone in the zone<br>Long event description. It can be used as a filter in event rules to assign actions depending on this text.  |

|             |  |
|-------------|--|
| Request URL | https://192.168.9.120:7001/api/createEvent?source=MS-C2961-REOPB&caption=Region%20Entrance&description=Someone%20in%20the%20zone |
|-------------|--|

Copy the Requesting URL.

**Step 4:** Open web page of the camera. Enable HTTP Notification in Alarm Action. Select Get in HTTP Method and choose one of the three URLs to enable. Set Trigger Interval from 0s to 900s. Paste the URL you just copied from API test tool in Nx Witness Server Web Client.

Reform the URL:

<http://192.168.7.33:7001/api/createEvent?source=MS-C2961-REOPB&caption=Region%20Entrance&description=Someone%20in%20the%20zone>

**Alarm Action**

☐ Record

☐ Snapshot

☐ External Output

☐ Play Audio

☐ Alarm to SIP Phone

☒ HTTP Notification

URL

123

Someone%20in%20the%20zone |

Enable☒

Trigger Interval

0

(0-900) s

HTTP Method

Get

User Name

admin

Password

•••••

Save

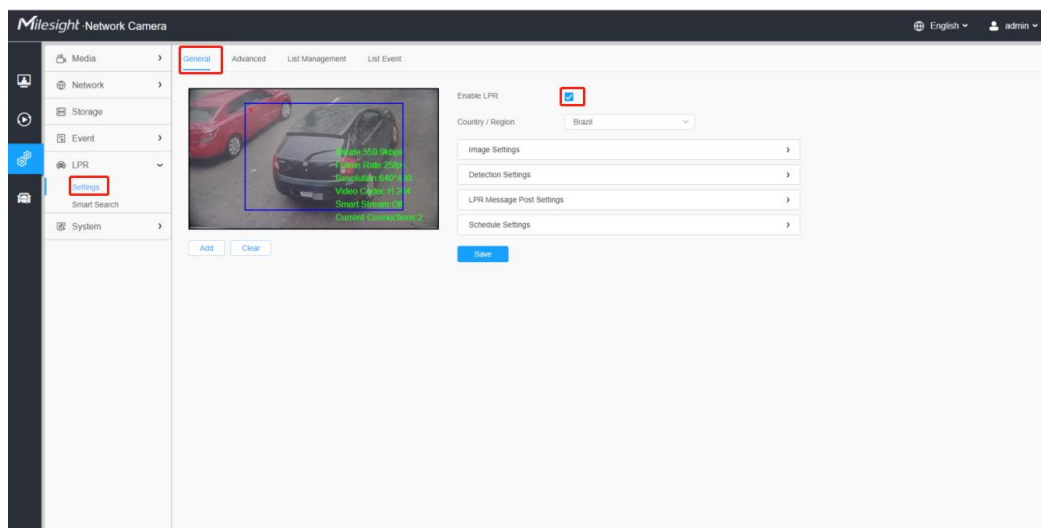
**Note:** Do not forget to finish User Name and Password (Nx Witness Server's User Name and Password) and click Save.

**Result:** Once Region Entrance is triggered, Nx Witness will show the Notification.

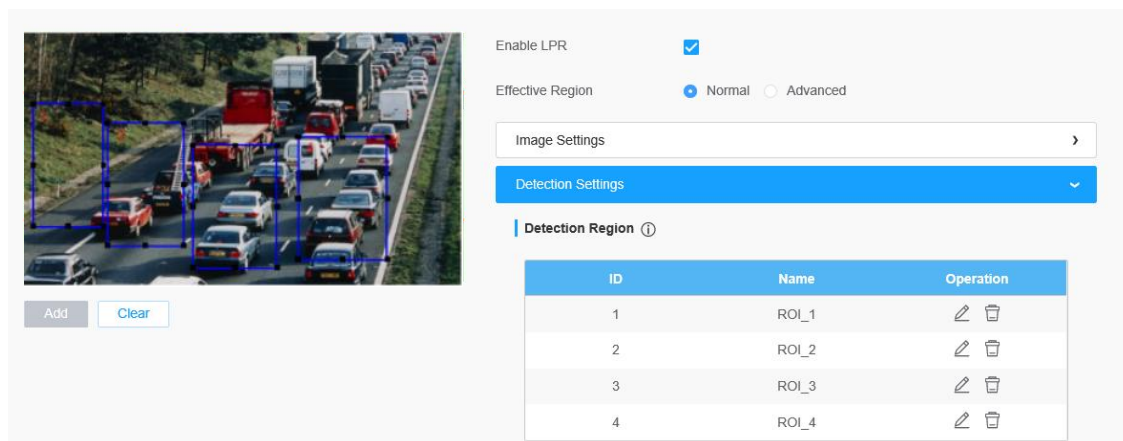


## Part II HTTP Notification between Network Optix and Milesight LPR

**Step1:** Log in webpage, and go to "LPR" → "Settings". Check the checkbox "Enable LPR", you can draw the screen to select area interested.



You can set up to 4 ROI areas by drawing the screen. If you choose **Normal Mode**, it supports configuring the LPR detection regions for the current area. If you choose **Advanced Mode** (Only for PTZ series), it supports configuring different LPR detection regions for different PTZ presets (Only support Preset 1~4 so far).



Enable LPR ☒


Effective Region ☒ Normal ☐ Advanced

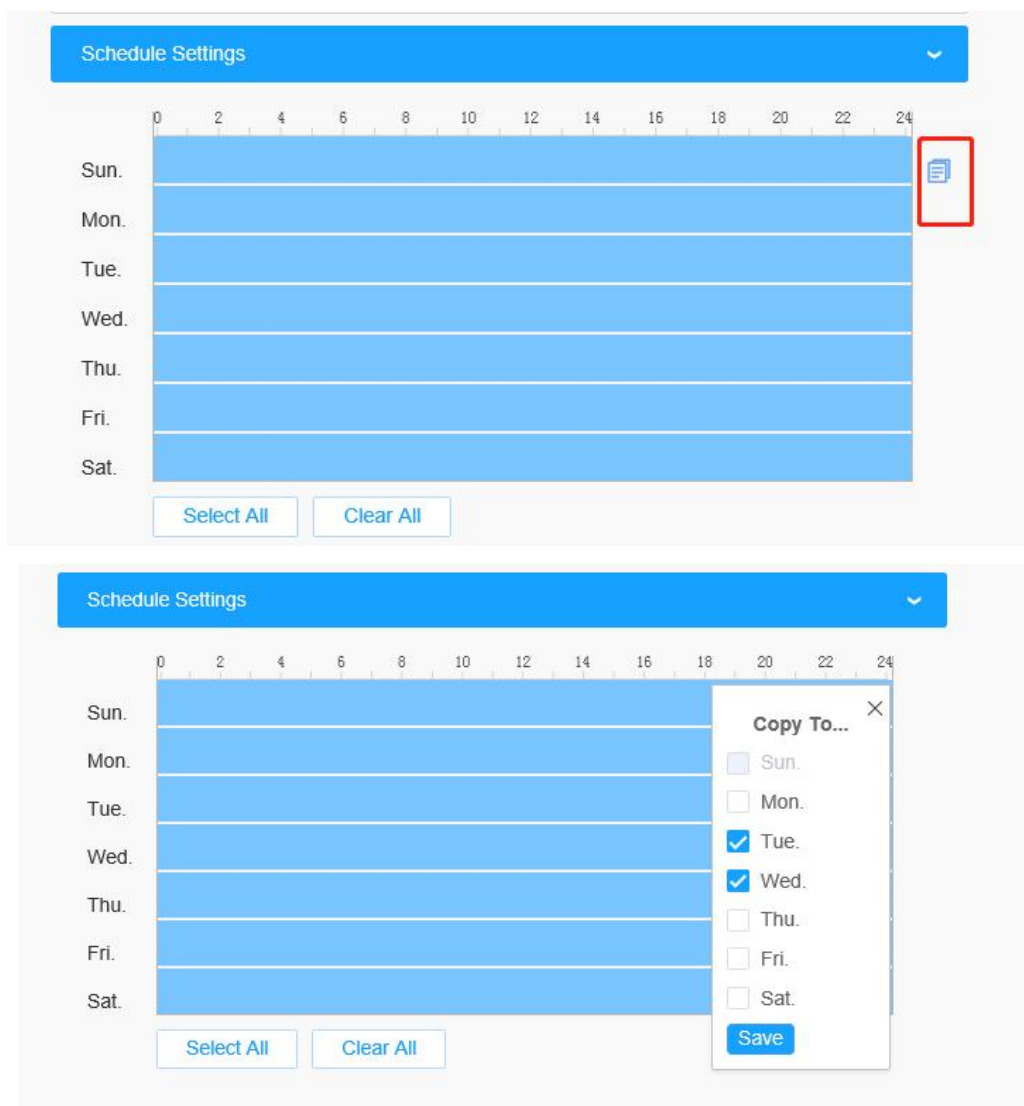
Image Settings >

Detection Settings ▾

Detection Region ⓘ

| ID | Name  | Operation |
|----|-------|-----------|
| 1  | ROI_1 |           |
| 2  | ROI_2 |           |
| 3  | ROI_3 |           |
| 4  | ROI_4 |           |

**Step2:** Schedule Settings. You can draw the schedule by clicking "  " this icon, after finishing setting. You also can copy the settings to other channels.



Schedule Settings ▾

0 2 4 6 8 10 12 14 16 18 20 22 24

Sun. Mon. Tue. Wed. Thu. Fri. Sat.

Select All Clear All

Schedule Settings ▾

0 2 4 6 8 10 12 14 16 18 20 22 24

Sun. Mon. Tue. Wed. Thu. Fri. Sat.

Select All Clear All

Copy To... X

☐ Sun. ☐ Mon. ☒ Tue. ☒ Wed. ☐ Thu. ☐ Fri. ☐ Sat.

Save

**Step3:** Detection Settings.



**Detection Region** ⓘ

| ID | Name  | Operation |
|----|-------|-----------|
| 1  | ROI_1 |           |
| 2  | ROI_2 |           |
| 3  | ROI_3 |           |
| 4  | ROI_4 |           |

Delete All

**Detection Settings**

Processing Resolution: 1280\*720

Detection Trigger: Always

Confidence Level: 4

Repeat Plate Checktime: 0 ms (0-60000)

License Plate Serial Format: [Edit](#)

Features Identification:

☒ All

☒ Plate Color
☒ Vehicle Type

☒ Vehicle Color
☒ Detection Region

☒ Direction
☒ Country / Region

**[Detection Trigger]:** If you choose “**Always**”, camera will always detect the license plate. If you choose “**Alarm input**”, camera will only detect the license plate during Alarm Input is being triggered.

**[Confidence Level]:** You can set the confidence level from 1 to 10. When the confidence level of the license plate is higher than the set confidence level, it will push the license plate image to the logs interface.

**[Repeat Plate Checktime]:** Set the time interval for repeatedly reading license plates to effectively avoid duplicate identification of parking vehicles.

**[Feature Identification]:** Check **Direction**, **Vehicle Type** or **All** to enable Features Identification, it will display the corresponding information on the logs interface.

**Step4:** Enable LPR Message Post, Select post type as **HTTP**, then input the HTTP Notification URL、User Name and Password.

- You must be carefully to put in correct **HTTP Notification URL** from API test tool in Nx Witness Server Web Client :

<https://192.168.9.120:7001/api/createEvent?source=MS-2961-X23TLPC&caption=LPR&description=Number>

( Refer to page 3 )

The screenshot shows the 'LPR Message Post Settings' window. It includes a blue header bar with the title and a dropdown arrow. Below the header, there are several configuration fields: 'Enable LPR Message Post' with a checked checkbox, 'Post Type' with radio buttons for HTTP (selected), TCP, and RTSP, 'HTTP Method' with a dropdown menu set to 'POST', 'Snapshot Type' with a dropdown menu set to 'All', 'HTTP Notification URL' with a text input field containing 'action=LPR&description=Number', 'User Name' with a text input field containing 'admin', and 'Password' with a masked text input field and an eye icon for toggling visibility.

**Step5:** After finishing the settings at camera's side, log in NX VMS and create the Event as "Generic Event", then set the Action as "Show text overlay".

The screenshot shows the 'Event Rules - Nx Witness Client' window. It features a table with columns: #, On, Event, Source, Action, Target, and Interval of Action. Two rules are listed, both for 'On Generic Event' with the action 'Show text overlay' targeting 'MS-C2961-X23TLPC'. Below the table, the 'Event' configuration section is expanded, showing 'When' set to 'Generic Event' and 'Occurs' set to 'Occurs'. The 'Action' configuration section is also expanded, showing 'Do' set to 'Show text overlay' and 'at' set to 'MS-C2961-X23TLPC'. There are checkboxes for 'Also show on source camera' and 'Display text for' (set to 5 seconds). A 'Schedule...' button is visible in the 'Event' section. At the bottom, there are 'Restore All Rules to Default', 'OK', 'Apply', and 'Cancel' buttons.

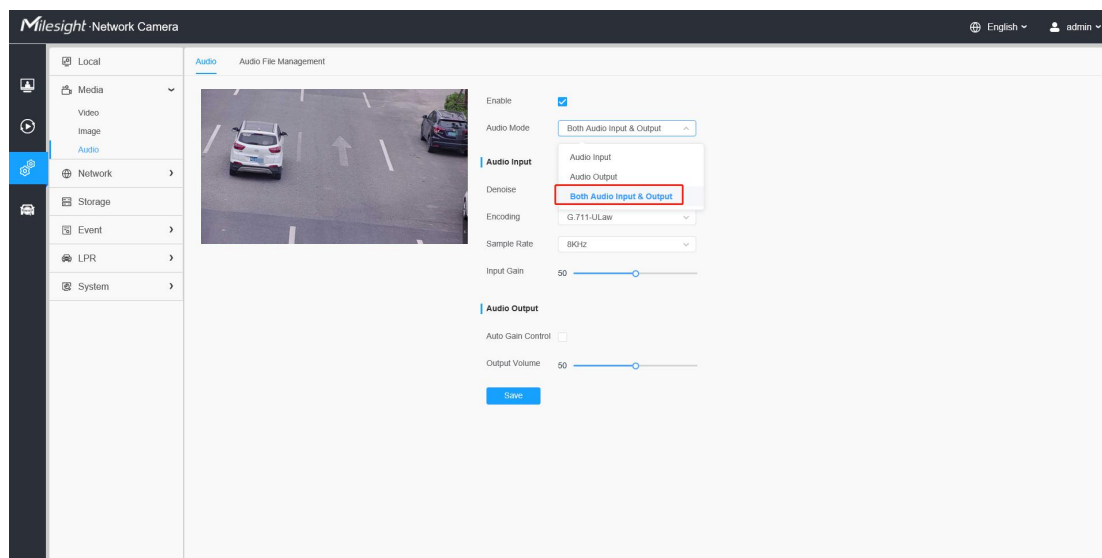
**Step6:** After setting successfully, if the license plate is detected, you will see the HTTP Notification showed as the picture as follow on the live video page in Network Optix.



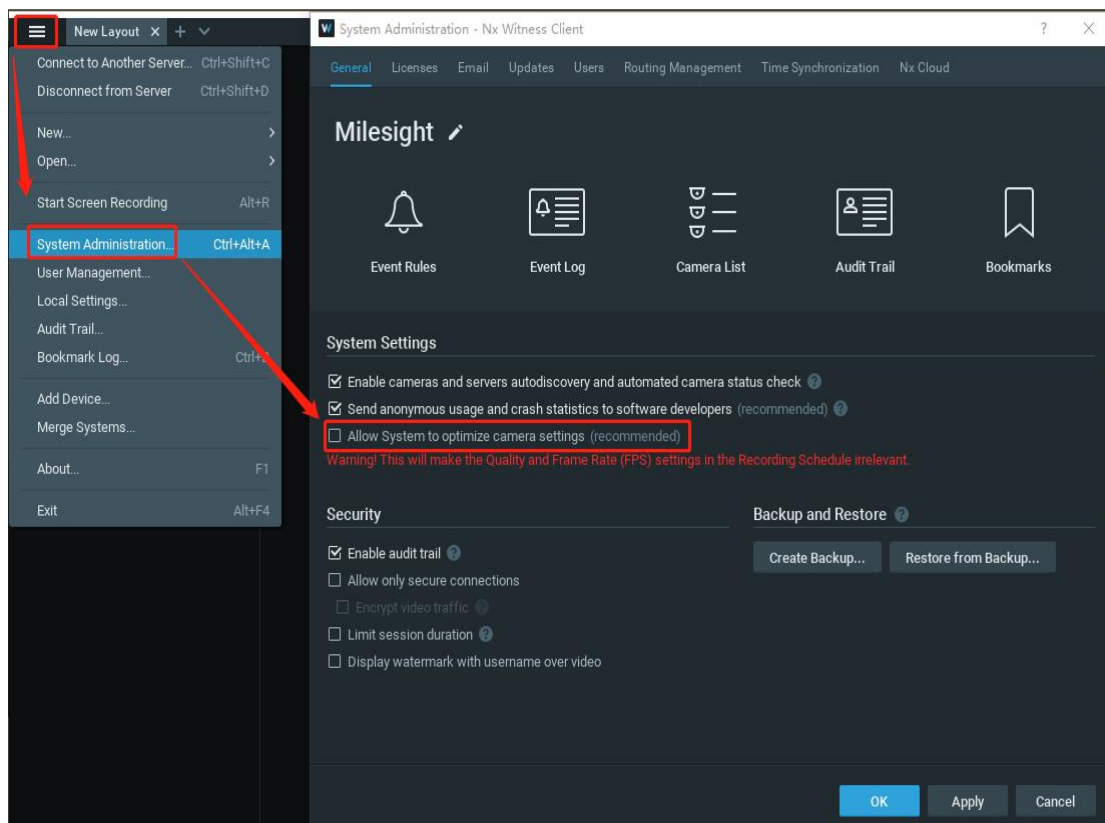


## Part III ONVIF two-way audio

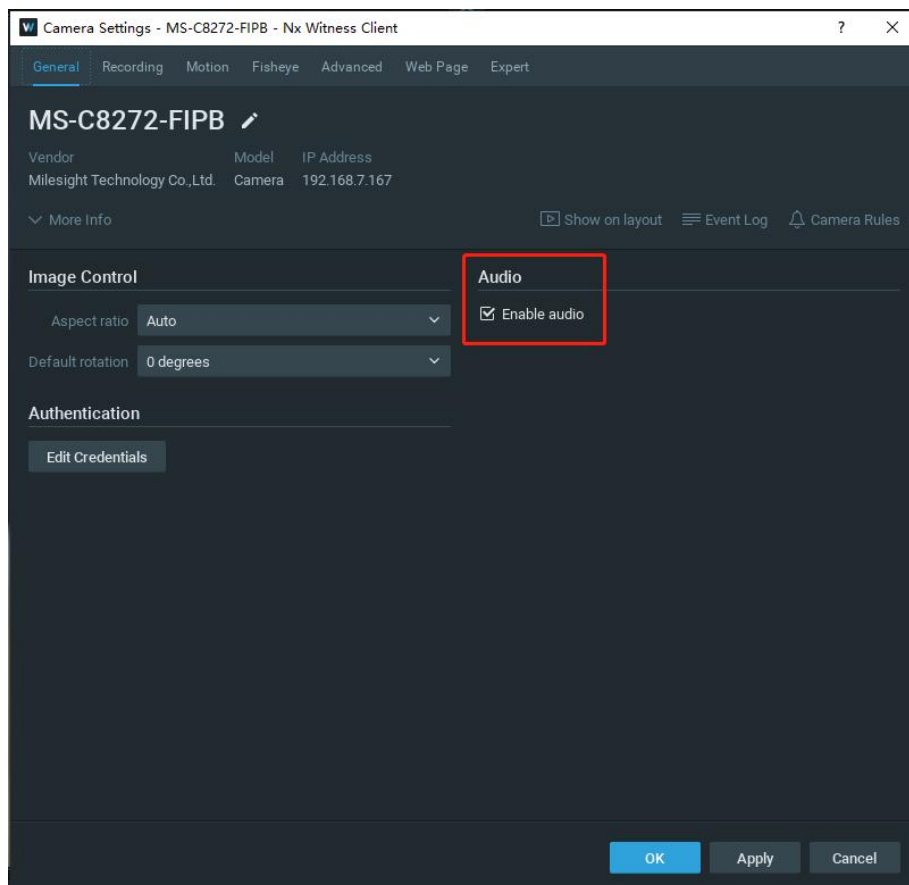
**Step1:** Enable both audio input and output on camera web.



**Step2:** Before adding camera, need to cancel "Allow System to optimize camera settings" firstly.



**Step3:** Enable audio when adding camera to Network Optix.



**Step4:** Hold down the button in the lower right corner of the live view to speak.



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