



Pelco Sarix/Spectra Camera Integration App-note

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1. Introduction

This document explains the process of setting up a Pelco Sarix/Spectra Series camera to be used with the CathesisVision software.

In most cases, CathesisVision handles all integrated camera setups from within the CathesisVision interface, and the camera does not require a specific setup document. However, the setup process for the Pelco Sarix/Spectra cameras as listed below, necessitates additional configuration from the Pelco web interface.

1.1 Requirements

- CathesisVision 2015 and later

1.2 Supported Cameras

This integration will support the following cameras.

Camera Type	Camera Model
	IP3701
	IP110
	Spectra IV IP
	Spectra Mini IP
Box	IX Series
	IXE Series
	IXP Series
Bullet	IBP Series
Dome	IDE Series
	ID Series
Ruggedized	IE Series
	IEE Series
Mini	IM Series
	IME Series
	IMP Series
PTZ	Spectra H.264
	Spectra HD 720 / 1080
	ExSite IP
	Spectra Pro IP
Integrated PTZ	Esprit HD
	Esprit SE IP
Thermal	TI3
	TI6
	Esprit TI3
	Esprit TI6

A NOTE ON CAMERA CHANNELS

The CathesisVision software packages have **limits on camera channels**. A multi-sensor camera is physically a single device (camera) but it **requires a camera channel for each one of the internal cameras**. The same applies to an encoder: a 16-channel encoder will account for 16 camera channels on the CathesisVision software, even though it is a single device. Even when a camera or device only uses a single IP license, the camera channel limit will still apply.

USEFUL LINKS

To view **tutorial videos** on CathesisVision setup, visit <https://cathesisvideo.com/resources/videos>

Find answers to Cathesis **Frequently Asked Questions**: <https://cathesis.crisp.help/en/?1557129162258>

2. Video Setup

There are two aspects to this setup. First the user will need to setup the camera in the camera's own web interface. Second, the user will need to add the camera to CathesisVision via the CathesisVision encoder addition process.

2.1 Pelco Web Interface Setup

In order to set up the video feeds on the camera, navigate to its web interface. This is done by opening your web browser and entering the IP address of the camera in the search bar. Once logged into the camera do the following:

1. Go to the **Video Configuration** tab, in the web interface. (Hover your mouse over A/V Streams tab, and select Video Configuration from the dropdown menu.)
2. Clear *both* of the stream settings.
3. Then do the following on the one stream, and then on the other.

Note: These are not required settings, but do work best with this setup.)

- a. Set **Compression Standard** to H.264. (This is the only compression standard supported by this integration.)
 - b. Set **Resolution** to highest setting in list.
 - c. Set **Image Rate** to highest in list.
 - d. Set **bit rates** as required.
 - e. Ensure that **Profile** is baseline.
 - f. Ensure that **GOP** Structure is IP.
4. Ensure that this is repeated for **both streams**.
 5. Click Save.

Note: If you are using a pre-5043 version of CathesisVision, you will need to reboot the DVR for the changes to take effect.

2.1.1 PTZ Setup of Spectra HD on the DSS

- From "System Setup", choose **Ports** and set the encoder as a 'PTZ Camera'.
- From "System Setup", go to the **Camera** and select a PTZ type.

2.2 CathesisVision Setup

- Select 'Pelco Sarix/Spectra HD' as encoder type.
- Configure username and password in '**Connection Tab**' if required.
- Add the IP and other info. (The default is admin/admin)
- In 'Video' tab:
 - Setup Channel 1: Select whether to allow live on this stream.
 - Setup Channel 2: Select whether to allow live on this stream.
- Configure **I/O Tab** if motion detection is required.
 - Trigger messages are constructed of the zone name (if present), and the uppercase characters of the analytic function:

<Zone Name>:<Analytic Event>

e.g. If we enable Adaptive Motion and set the Zone name to "Zone 1" the message trigger will be:

"Zone 1:AM"

○ If the analytic function does not specify a zone name when set up on the camera, omit <Zone Name>. The message trigger for Sabotage Detection will be:

"SB"

○ If the message trigger is set to "STARTMOTION", all message triggers from the camera will trigger the event.

Important Note: Streams that are not set to H.264 **will be** ignored.

3. Conclusion

This camera setup document was designed to deal specifically with this camera integration. For further information about the CathesisVision software, consult the main manual (<http://cathesisvideo.com/>).

For support, email support@cat.co.za.