



Optera™ IMM Milestone Plug-In

C2290M-E
(1/22)

The Optera™ IMM Milestone® Plug-in enables Milestone Video Management systems to use Optera IMM Series cameras. This user manual provides basic instructions for the plug-in and functionality it conveys within Milestone XProtect. For detailed instructions, reference your Milestone User documentation.

Compatibility

The Pelco IMM Milestone Plug-In version 2.1.0.1 is compatible with:

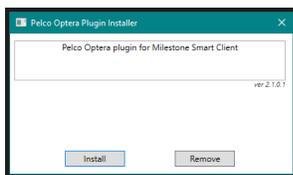
- Milestone XProtect®
 - XProtect Go is not supported
- Milestone Device Pack version 7.9

Minimum System Requirements

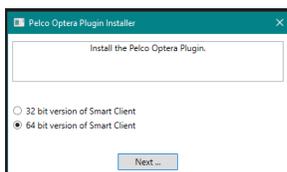
	High Resolution Disabled	High Resolution Enabled
Operating System	Windows 7 or higher	Windows 7 or higher
Video Memory	1 GB	2 GB
System Memory	4 GB	8 GB
Processor	Intel® Core™ i5 or better; 2.6 GHz	Intel Core i7 or better; 2.0 GHz

Installing the Optera IMM Milestone Plug-in

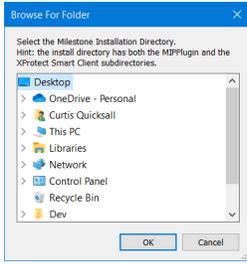
1. Download the installer file.
2. Double-click the file; if prompted, elect to run the application as an administrator.
3. Click Install.



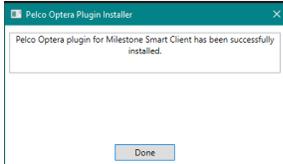
4. Select your system type (32 or 64-bit), then click Next.



5. If the Milestone directory is not automatically detected, select it from the browse window. If it is detected, you will not see this window.



6. Click Done.



Adding Optera to Milestone XProtect

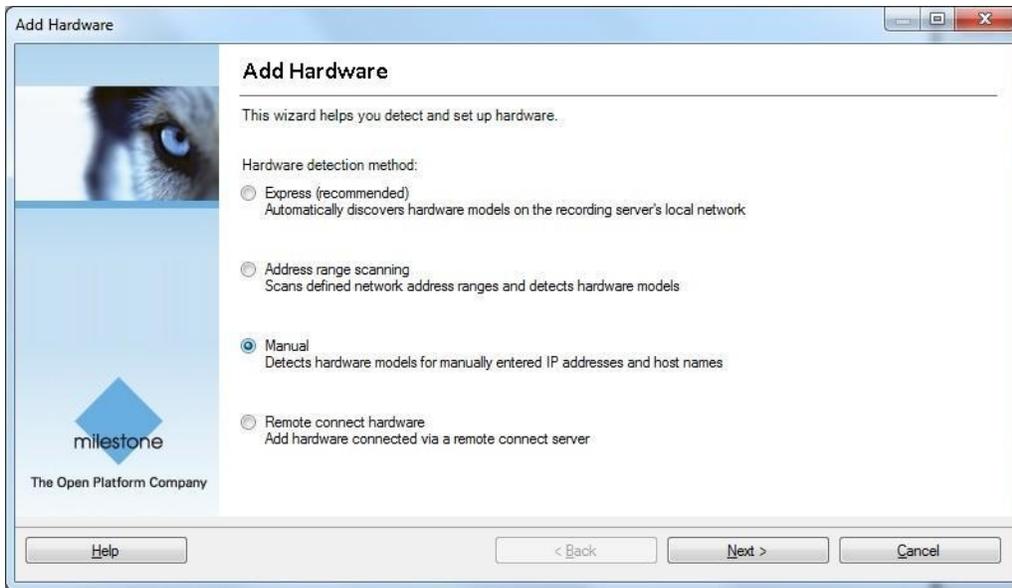
Reference the Optera Installation guide for more information about setting up the camera on your network. Ensure the Optera camera is accessible within the Milestone Server/Client network.

Optera cameras generate three video streams. Milestone recognizes each stream as an individual “camera”. You only need to add the physical Optera camera to XProtect once, but the application will recognize the Optera camera’s video streams as unique cameras.

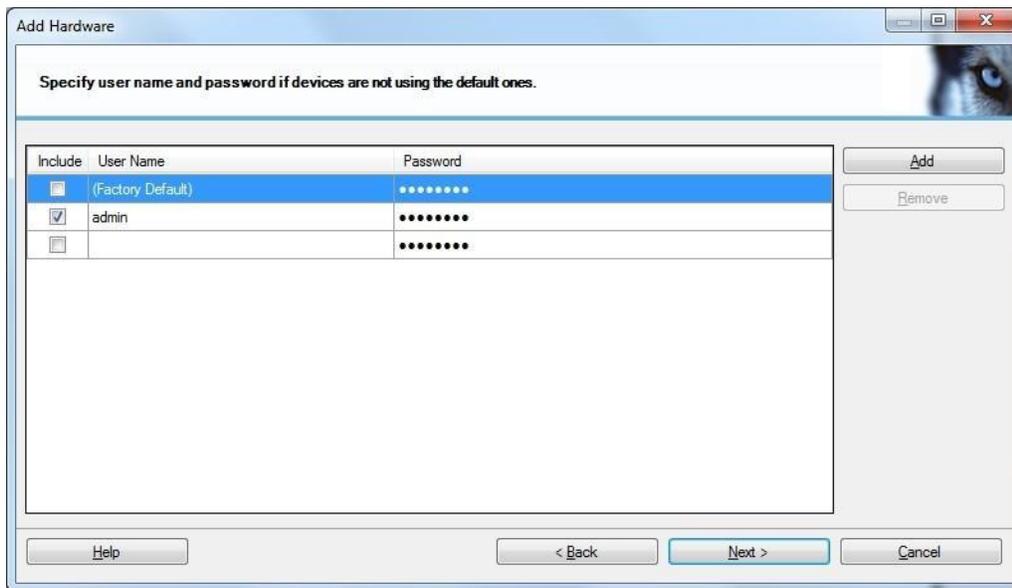
1. Open Milestone XProtect.
2. Select the Recording Server and right click to expose the menu.
3. Click Add Hardware.



4. In the Add Hardware Devices dialog, select Manual and click Next.



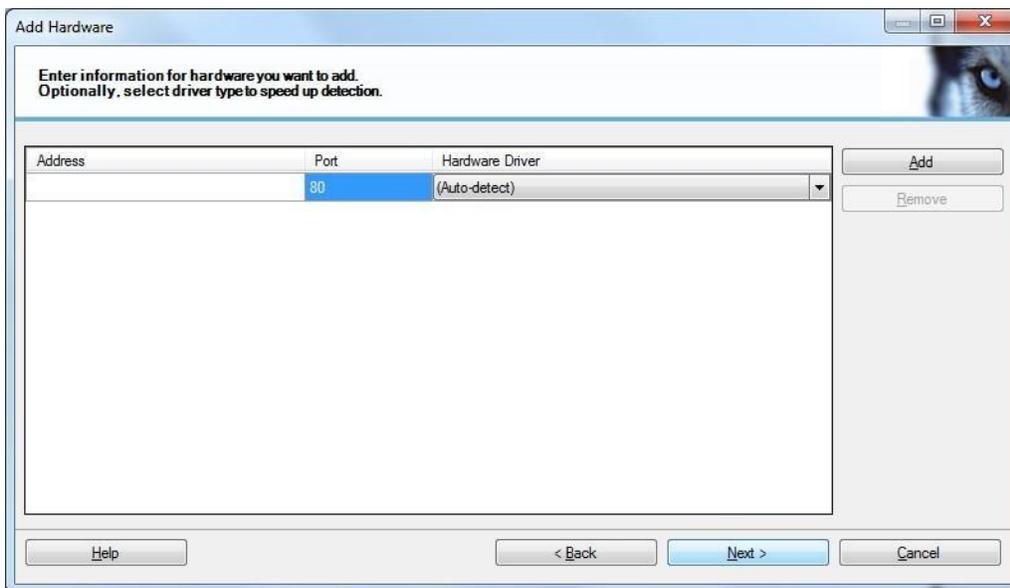
5. Click Add, and enter the user name and password for your Optera camera. Click Next.



6. Select the ONVIF driver, and click Next.

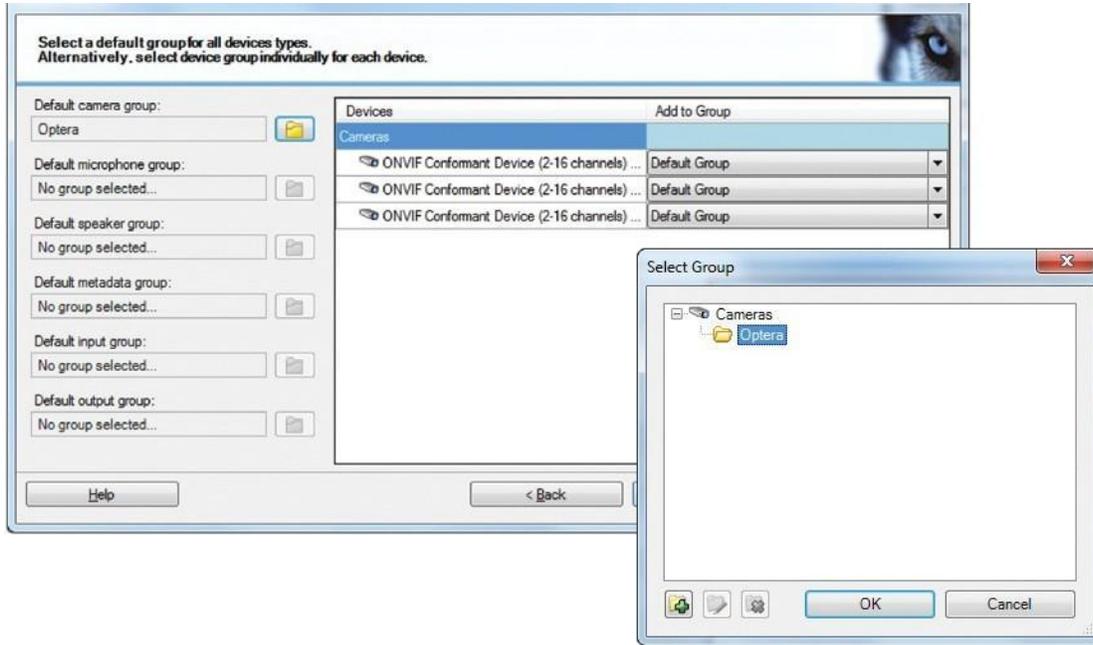


7. Enter the address and port information for your Optera camera. In the Hardware Driver field, select "ONVIF Conformant Device (2-16 channels)". Click Next.



8. Click Next when the installation process finishes.
 9. Optera populates within XProtect as multiple cameras. You will use cameras 1, 2, and 3 for Optera; disable all other cameras shown.
 10. Select the folder icon under Default camera group.
 11. In the Select Group dialog, select Optera, and click OK.
- NOTE:** You may create any name for the *Default camera group*.

12. Click Finish.



13. Confirm that your Optera device is available. The cameras appearing within XProtect correspond to Optera video streams. Camera one corresponds to the mosaic stream. If you rename an Optera video stream (recognized within XProtect as a camera), you must rename all the video streams for the physical camera and maintain the *camera_base_name <number>* scheme, to maintain stream associations. Failing to rename all streams accordingly will result in missing streams.

14. Close Milestone XProtect Professional Management.

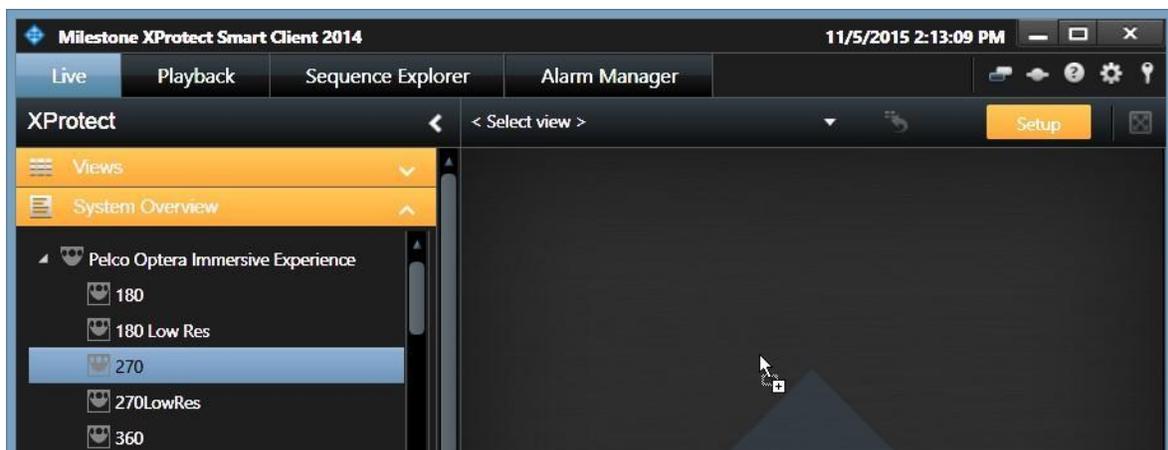
Using Optera through XProtect Smart Client

Reference the Milestone XProtect Smart Client User manual for complete user instructions. The following instructions are based upon XProtect Corporate.

Each Optera video stream (recognized as a camera within XProtect) senses motion individually. The application shows motion when at least one camera in the group senses motion. When the individual streams are set to the default, "record on motion", each stream will record individually when it senses motion. The recording indicator appears when at least one stream is recording.

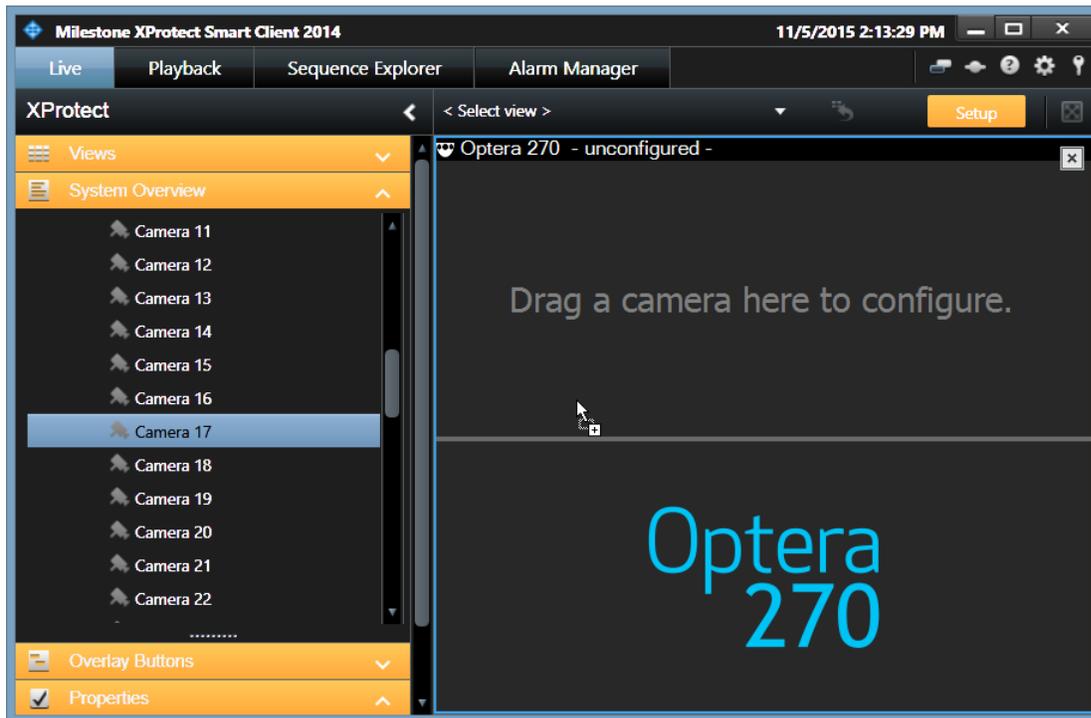
Notice: XProtect discards metadata from the Optera video streams, preventing the application from fully synchronizing video; a temporal misalignment may become apparent as an object passes across boundaries between streams; you cannot fix this using the camera's Alignment function. However, if a stationary object breaks across camera sensors, you can use the camera's Alignment tool through the Optera web interface to correct the issue.

1. Open XProtect Smart Client.
2. Click Setup . The Pelco Optera Immersive Experience appears under System Overview.
3. Select the camera type from the System Overview menu, and drag the camera into the Select View window.



- Expand the cameras in the Server menu, and drag the first Optera camera (mosaic) into the view.

Note: Selecting the wrong camera may result in an undesirable image. For example, the wrong camera shows a solid red stream.



- Click Setup to exit. After exiting Setup, the panoramic and immersive views display.

Note: Drag the window splitter to contract and expand each window as desired.

Virtual PTZ Control

When a user accesses an Optera IMM Series camera, there are two video views within the same XProtect view, one over the other. The two video views include the panoramic view (top) and the full resolution immersive view (bottom).

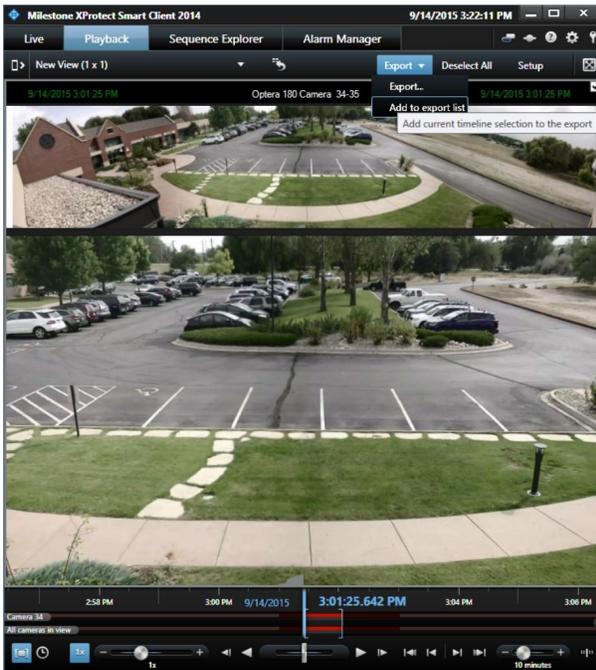
Only the immersive view allows you to PTZ in the different areas of the scene. The panoramic view is intended to give you situational awareness at a glance. You can double-click in the panoramic view to center in the immersive view on an area of interest. The Optera plug-in allows you to control the pan/tilt/zoom (PTZ) using a mouse.

Exporting Recorded Video

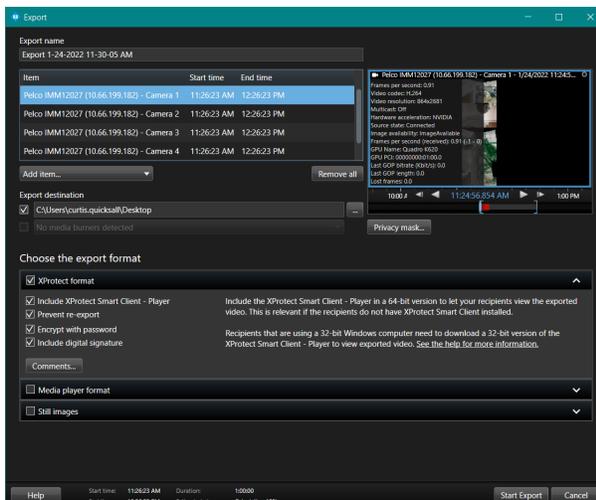
You can export recorded video in multiple formats. The plug-in stores and uses your settings the next time you export video. Exporting with the XProtect format provides the panoramic and immersive viewing pair. Other export formats deliver the Milestone native view providing individual Optera camera streams in place of the paired views.

You must explicitly export all of the Optera camera's video streams containing recorded video to view a complete event. When viewing an export from an Optera camera, for which streams are missing (presumably because they did not record video during the time you specified when generating the export), the missing streams will appear red.

1. Click Time Selection Mode () from the Playback tab to select the start and end of the video you want to export. Adjust the slider to select the timeline desired.
2. Select the camera pane and then select the camera view check box (located on the right side of the title bar).
3. Click Export and select "Add to export list." If exporting low resolution video, required for 32-bit installations, skip to step 6.



4. For Full Resolution views, select additional camera streams to complete your export, and select the camera view check box. Click "Add to export list."
5. Click Export. Review your video, additional streams and set the Export Name, Destination, and Format.



- Click Start Export.

Notice: Attempting to export a camera stream for which there is no recorded video will cause the stream to display red since no video is present.

- When the export process is complete, you can view your exported video by running SmartClient_Player.exe.

PLAYING BACK VIDEO

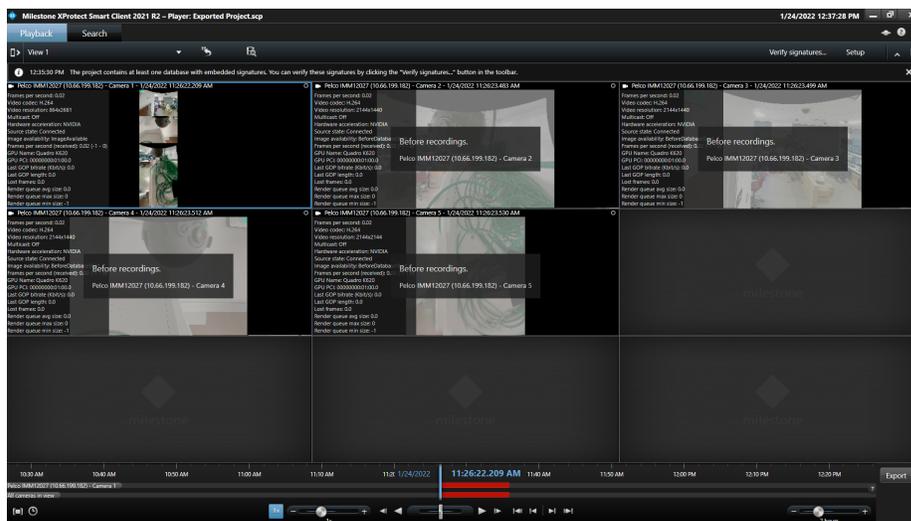
By default, Optera cameras record based on motion activity. Each stream for a single physical Optera camera records separately. When playing back video, gray areas indicate times for which the system holds no recorded video. The window title bar provides you with the camera streams in use. Click the title bar to step to the next camera stream in the recording.

The timeline functions for the camera stream selected. Because (by default), XProtect only records the individual stream that senses motion, different streams from the same Optera camera will show different recording periods on the timeline. Switch between the Optera streams to better understand the full scope of an event seen by Optera.

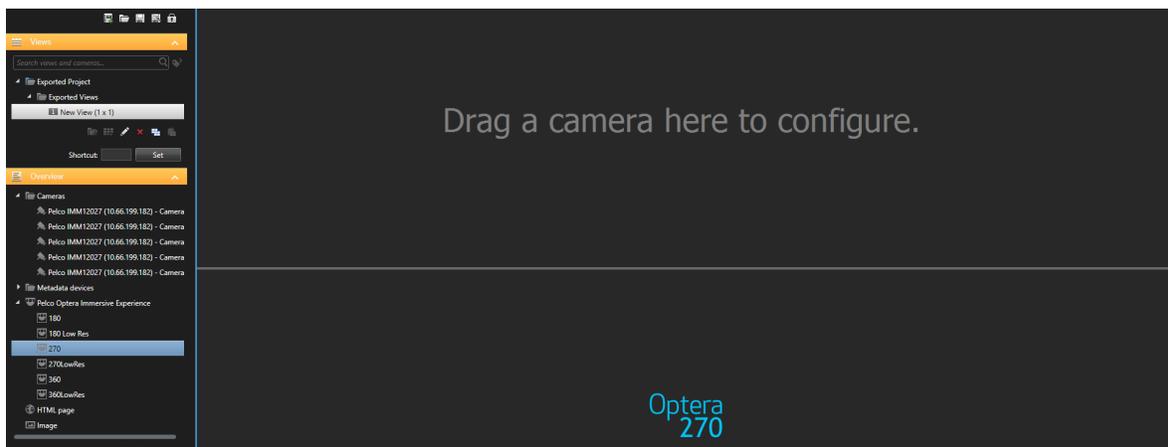
XProtect discards metadata from the Optera video streams, preventing the application from fully synchronizing video; differences in synchronization may become apparent as an object passes across boundaries between streams.

Notice: If you select a date and time without video, the camera will display the last frame of the previous recording and will resume playback when you select a date and time with recorded video.

- Open the exported project file.

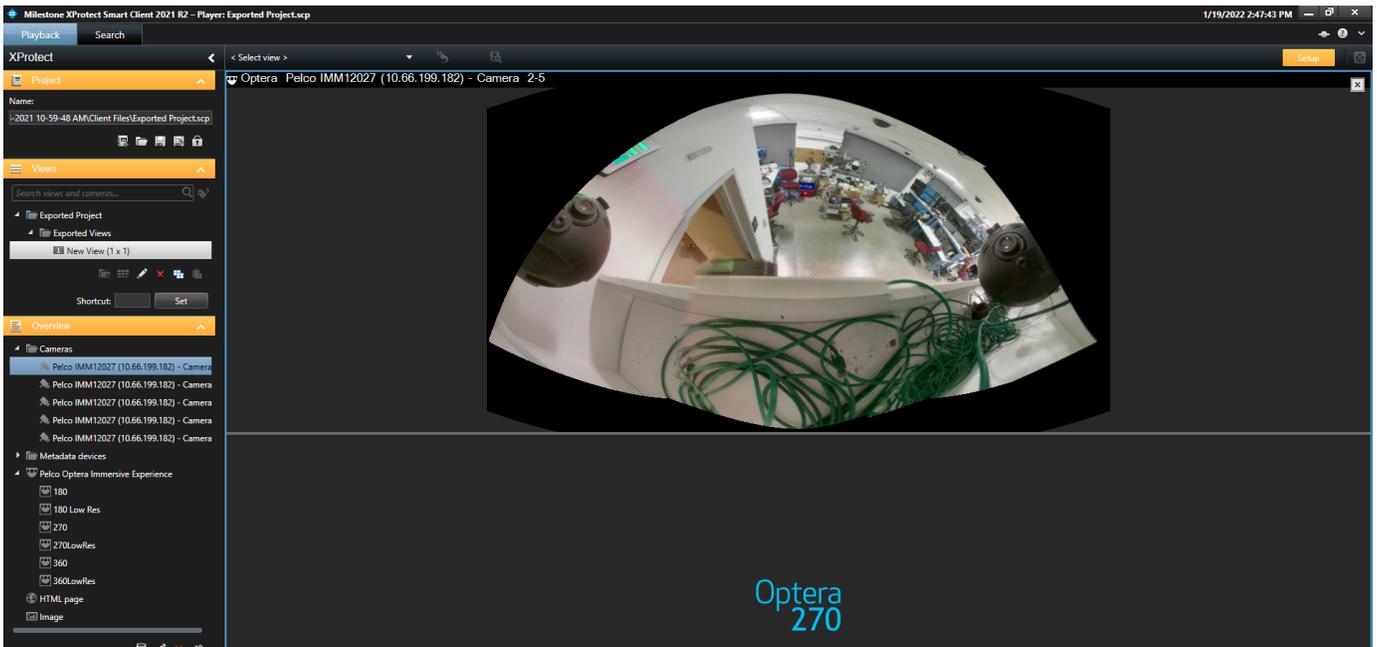


- Click Setup . The Pelco Optera Immersive Experience appears under System Overview.
- Under Views, set your layout.
- Select the camera type from the System Overview menu, and drag the camera into the Select View window.

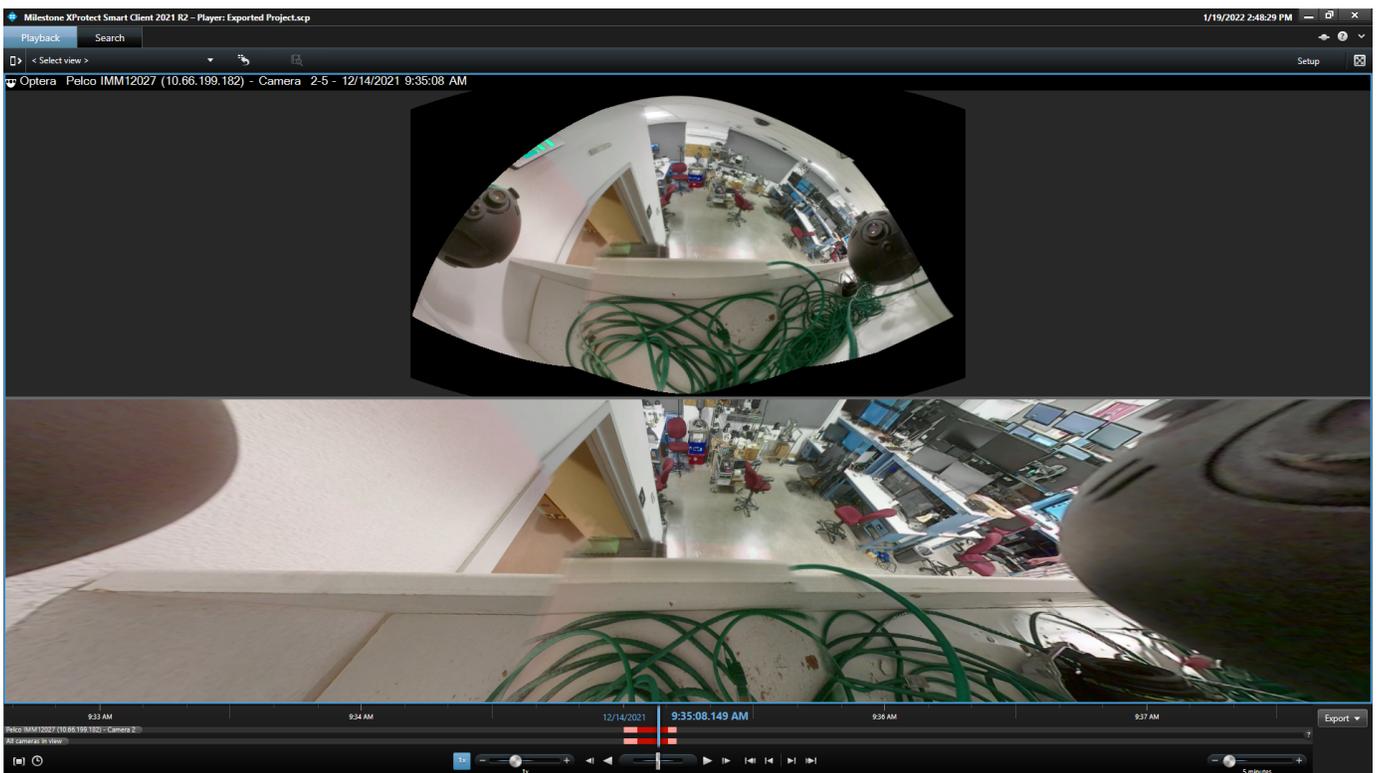


5. Expand the cameras in the Server menu, and drag the first Optera camera (mosaic) into the view.

Note: Selecting the wrong camera may result in an undesirable image. For example, the wrong camera shows a solid red stream.



6. Click Setup to exit. After exiting Setup, the panoramic and immersive views display.



Note: When playing back exported video, camera streams without recorded video appear red.



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