



Milestone Certified Solution



**Panasonic**



**Panasonic Fisheye Camera Plugin**

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## About Panasonic Corporation

Panasonic, a global leading company in Consumer Electronics, Housing, Automotive, and B2B, welcomes its 60th anniversary in the video security market providing security products/solutions/services supported by world-high-class video image quality from professional broadcasting experience and latest sensing analytic technology from automatic driving assistance systems. Our world leading deep learning facial recognition technology triggers even when the subject is wearing sunglasses, while our smart coding dramatically reduces the bandwidth and storage cost even in outdoor and low light conditions. Panasonic is committed in delivering the freedom to feel secure, so that society can live a better life, a better world.

## About Milestone Systems

Milestone Systems is a global leader in providing open platform IP video surveillance software. Milestone has provided easy-to-use, powerful video management software in more than 200,000 installations, worldwide.

Milestone XProtect® provides open architecture products that are compatible with more IP cameras, encoders, and digital video recorders than any other manufacturer. Because Milestone provides an open platform, you can integrate today's best business solutions and expand what's possible with future innovations. Visit [www.milestonesys.com](http://www.milestonesys.com) for more.

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## **Executive Summary**

The following report contains the results of Milestone Certified Solution tests performed on the Panasonic Fisheye video dewarping XProtect Smart Client plugin integration. The tests were intended to verify that all the intended functionality of the plugin is available when the solution is successfully integrated. During this process, Milestone engineers reviewed all documentation covering the plugin solution and documented the expected functionality of the integration.

Fisheye Camera Plugin for Milestone XProtect is provided the function of dewarping from the fisheye image. This makes the user easier to monitor and operate.

- There are four dewarping styles.



## **Certified Products**

- Panasonic Fisheye Camera Plugin V1.01.01
- Milestone XProtect Corporate 2018 R2 12.2a
- Milestone XProtect Smart Client 2018 R2 12.2a

*Performance of the solution may vary if different XProtect products and/or system components not listed in the tests details are included.*

## Test Setup

Milestone XProtect Smart Client 2018 R2 installed on a desktop PC, core i7, 32GB RAM running Windows 10 Pro. See below for basic system information from Windows.

### Device specifications

#### VisionComputer

Device name	computer
Processor	Intel(R) Core(TM) i7-8700K CPU @ 3.70GHz 3.70 GHz
Installed RAM	32,0 GB
Device ID	FDD0C2C2-88DE-43D8-AECA-53C026838AC6
Product ID	00330-70000-00002-AAOEM
System type	64-bit operating system, x64-based processor
Pen and touch	No pen or touch input is available for this display

Rename this PC

### Windows specifications

Edition	Windows 10 Pro
Version	1803
Installed on	14/08/2018
OS build	17134.285

All video streams used in this test were configured at 30 frames per second (FPS). All video streams were configured to use the H.264 video codec. The image resolutions used in this test included the following:

- WV-SF448 - 1920x1080 (2M / 1080p / 4,096 Mbit/s)
- VW-X4571L – 2992x2992 (9M / 1080p / 8,192 Mbit/s)

## Features Tested Described

The list of integrated functionalities that was verified by the Milestone Certification process is listed below, all functionality will be available in a successfully installed and integrated surveillance system that utilizes XProtect and the Panasonic Dewarping plugin.

### Panasonic Dewarping Plugin Integrated Functionality with XProtect Smart Client:

- **Drag and Drop plugin view item into Smart Client Pane.**  
In the system overview pane of the XProtect Smart Client, while in Setup mode, you can drag the Panasonic Dewarping plugin into any pane in the available view.
- **Select available Panasonic cameras to display in the Plugin.**  
Click on the camera setting icon in the lower right corner of the plugin view pane and open a camera selection window with all cameras in the XProtect system available to select. The chosen camera will be displayed by the Panasonic Dewarping plugin.
- **Display Dewarped video in both live and playback modes of the Smart Client.**  
The Panasonic Dewarping plugin works to display dewarped video that is streaming live, and the fisheye video that is recorded to the XProtect Recording Server, can also be dewarped and viewed while playing back the recorded video, or even reviewing exported material.
- **Select View Types.**  
Choose from several different view formats in which to view the Panasonic dewarping video.
  - Fisheye
  - 1 Screen
  - 4 Screen
  - Panorama
  - Double Panorama
- **Select Mount Types**  
Choose between 3 different mount types, which will change the way that the digital PTZ works within the dewarped video.
  - Ceiling
  - Wall
  - Desktop

## **Conclusion**

The Panasonic Dewarping Plugin solution for integration with Milestone XProtect Smart Client is a certified solution. All the functionality listed in this document is achievable in a system installed and integrated by authorized partners of Milestone and Panasonic. Milestone and Panasonic collaborated to define the functionality that this solution brings to their customers, and using a system designed to replicate realistic surveillance installations, both parties verified that the solution indeed delivers the promised functionality. The additional functionality this solution offers for dewarping and displaying 360° video from Panasonic cameras is reliable and repeatable. Any XProtect system which could benefit from the use of Panasonic video cameras, and dewarped viewing of live and recorded video, with predefined view settings and types, could make great use of this integration from Panasonic

## **Resources**

To learn more about the products mentioned in this document visit the links below:

- Fisheye Camera Plugin for Milestone  
[https://security.panasonic.com/products/fisheye\\_for\\_milestone/](https://security.panasonic.com/products/fisheye_for_milestone/)
- Milestone XProtect® IP video management software  
<https://www.milestonesys.com/solutions/platform/video-management-software/>