



**SIMPLIFY
ACCESS &
CONTROL**

**Wisenet WAVE
Wisenet WAVE NVR
Panel Guide**

Intelli-Site

Security Management Software

Wisenet WAVE

Wisenet WAVE NVR

Panel Guide

Copyright

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When calling, please be at the computer prepared to provide the following information:

- Product version number, found by selecting the  **About** button from the Intelli-Site Application Menu.
- Product License and SMA numbers used for registration.
- The type of computer being used including, operating system, processor type, speed, amount of memory, type of display, etc.
- Exact wording of any messages that appear on the screen.
- What was occurring when the problem was detected?
- What steps have been taken to reproduce the problem?
- It is highly recommended that the user execute a System Information Report and export that report to Adobe .pdf format for transmission to Intelli-Site technical support staff.

Table of Contents

Copyright	3
Trademarks	3
Technical Support Assistance	4
Table of Contents	5
Introduction	7
Installation	8
Setup.....	9
Add a Wisenet WAVE driver	9
Add a Wisenet WAVE NVR Panel.....	11
Configure the Wisenet WAVE NVR Panel.....	12
Auto Detect Cameras	14
Manually Enter Cameras	15
Import Cameras from a File	16
Enable the Wisenet WAVE driver	19
Streaming Video.....	20
Programming.....	20
Automatic Programming	20
Programming by Hand.....	25
Add Counter Value Screen Objects.....	35
Programming PTZ Presets	35
 Live View	37
 Design View	39

Wisenet WAVE NVR Panel Guide

Wisenet WAVE Driver Node	39
Wisenet WAVE NVR Panel.....	41
Wisenet WAVE NVR Node Properties.....	41
Wisenet WAVE NVR Quick Config	43
Wisenet WAVE NVR Panel Child Nodes.....	45
Table of Figures	53
Revision History	56

Wisenet WAVE NVR Panel Guide

Introduction

The Intelli-Site Wisenet WAVE NVR video integration uses the Wisenet WAVE NVR 2.6.0.13109 API. The Intelli-Site Wisenet WAVE NVR panel is the Intelli-Site software representation of a Wisenet WAVE NVR, referred to from here on out as a Wisenet WAVE NVR panel.

This guide explains using the Wisenet WAVE driver and Wisenet WAVE NVR panel with Intelli-Site.

Installation

The Wisenet WAVE driver in Intelli-Site must be installed. No external software is needed.

Note: *When Intelli-Site is installed on VMWare Workstation, it must be installed on version 12.6 or later for the Wisenet WAVE integration to stream video. The video driver in earlier versions may not work with the vlc library.*

If Intelli-Site has been installed without the Wisenet WAVE driver, run the Intelli-Site installer again and select **Modify**.

During the Intelli-Site installation or modify installation process, you are presented with the **Select the drivers you want to install** window.

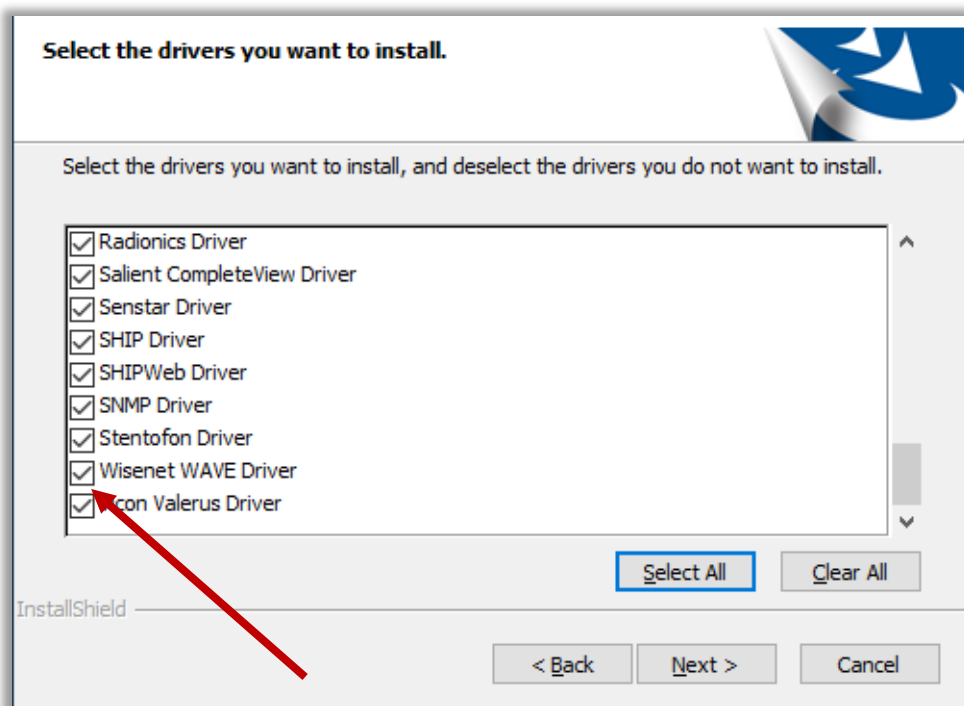
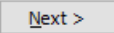


Figure 1 - Select the drivers you want to install

Ensure the **Wisenet WAVE Driver** option is checked then click  to continue with the installation or modification.

Note: *When modifying the installation, clearing a checkbox will cause that component or driver to be removed from the current installation.*

Wisenet WAVE NVR Panel Guide

Setup

The Wisenet WAVE driver and Wisenet WAVE NVR panel are best configured in  **Hardware Management View**. Before we begin though, it is a good idea to have the IP address, TCP port number, username and password for the Wisenet WAVE NVR.

Once the above information is obtained, the setup process is straight forward.

1. Add a Wisenet WAVE driver
2. Add a Wisenet WAVE NVR Panel
3. Configure the NVR Panel including adding the cameras
4. Enable the Wisenet WAVE driver

Add a Wisenet WAVE driver

Adding a Wisenet WAVE driver is simple, but important. Without it, no communication with the Wisenet WAVE NVR can occur.

Launch the Desktop Client and login.

Hardware is managed in the  **Hardware Management View**. If you are not in  **Hardware Management View**, click on  and select .

Wisenet WAVE NVR Panel Guide

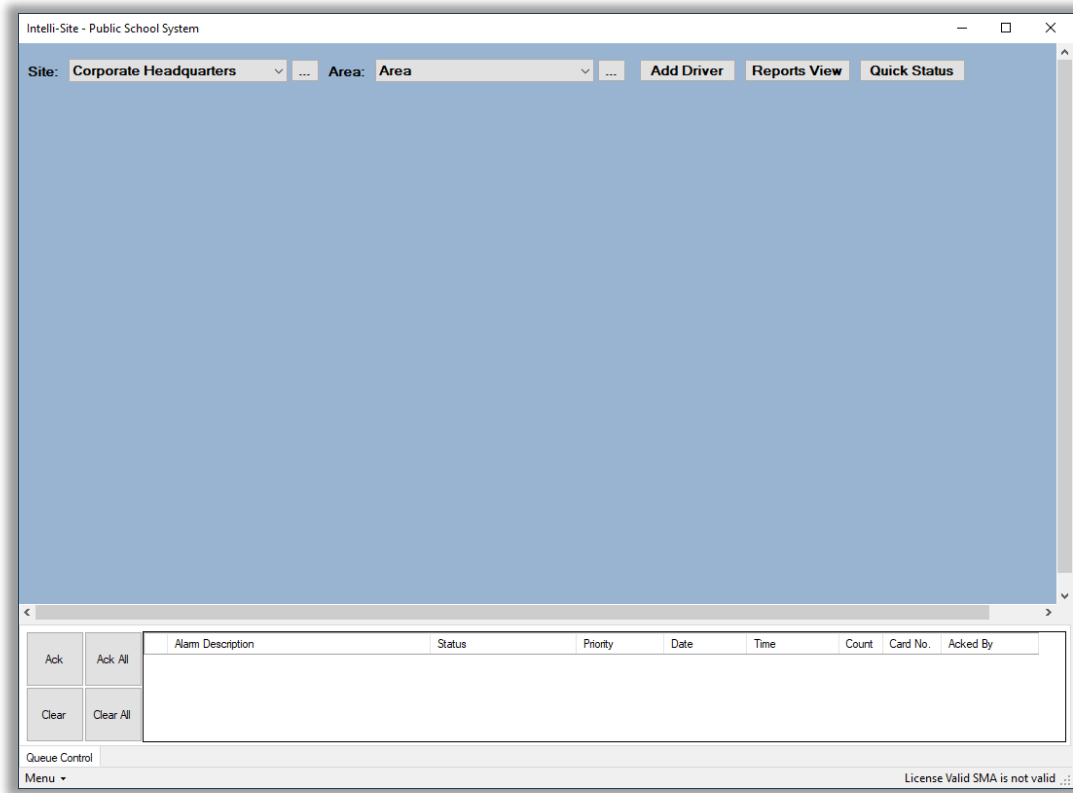


Figure 2 - Hardware Management View

To add the Wisenet WAVE driver, click **Add Driver**. The **Choose Driver Type** dialog displays.

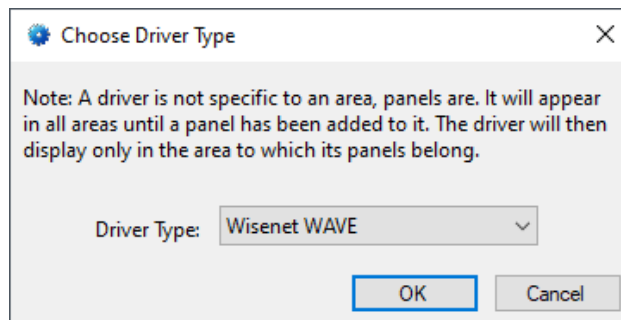


Figure 3 - Choose Driver Type Dialog

Select *Wisenet WAVE* from the **Driver Type** drop-down menu in the **Choose Driver Type** dialog then click **OK**. A new Wisenet WAVE driver icon is added to the screen and its properties dialog opens.

Wisenet WAVE NVR Panel Guide

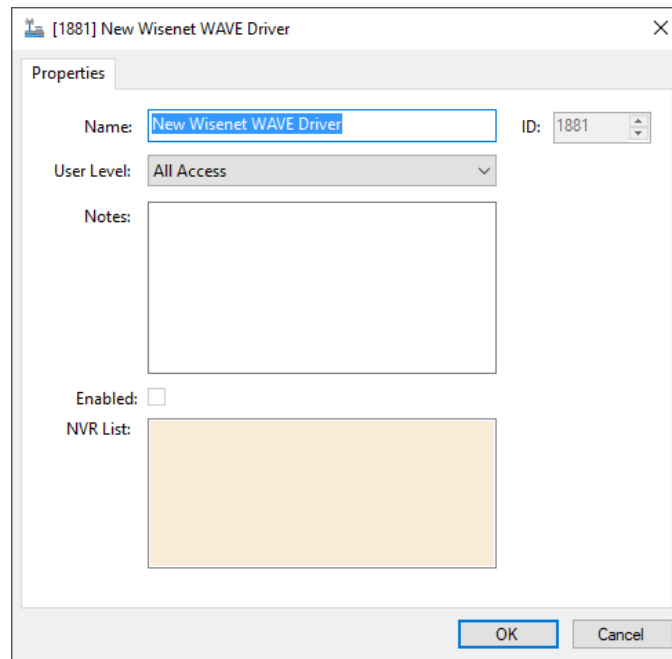


Figure 4 - Wisenet WAVE driver Properties Dialog

Change the name of the driver to something more descriptive that reflects the location and/or usage of the Wisenet WAVE NVR that this driver will control (e.g., PS101 Wisenet WAVE driver). No other fields need to be modified at this time.

Note: For an explanation of all of the driver's properties, see [Wisenet WAVE driver Node](#).

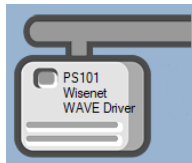


Figure 5 - Wisenet WAVE driver Icon

Now we need to add a Wisenet WAVE NVR panel to the Wisenet WAVE driver.

Add a Wisenet WAVE NVR Panel

Once a Wisenet WAVE driver has been added, it's time to add a Wisenet WAVE NVR panel to it.

Right-click on the Wisenet WAVE driver and select *Add Panel*. The **Add Panel** dialog displays.

Wisenet WAVE NVR Panel Guide

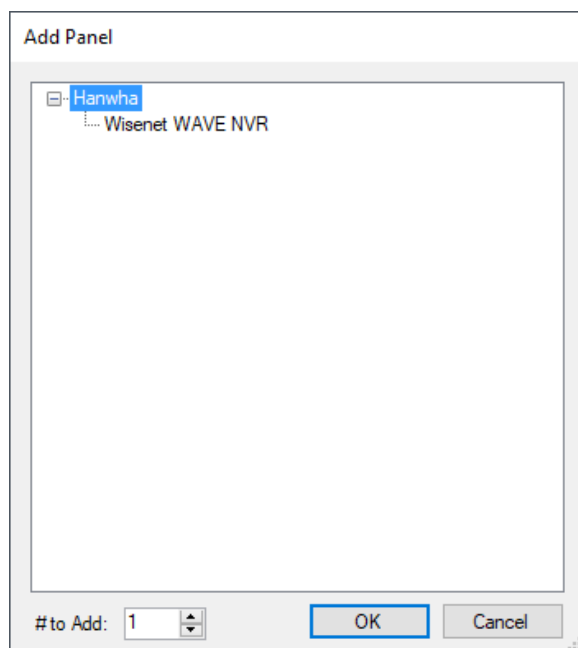


Figure 6 - Add Panel Dialog

Select *Wisenet WAVE NVR*. Change the value of **# to Add** to the number of interfaces you want to add. For the most part, one (1) is sufficient. Click **OK**. A **New Wisenet WAVE NVR** icon is added to the target Wisenet WAVE driver.

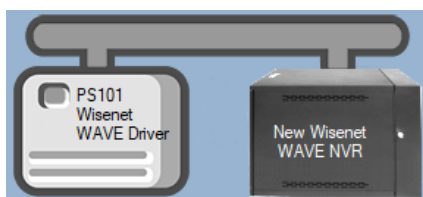


Figure 7 - Wisenet WAVE driver and a new Wisenet WAVE NVR panel

Next comes configuring the Wisenet WAVE NVR panel.

Configure the Wisenet WAVE NVR Panel

The Wisenet WAVE NVR panel is configured using the **Quick Config** dialog. It is on this dialog that the IP address, TCP port, username, and password are set, and the cameras are added. To open the **Quick Config** dialog, right-click on the Wisenet WAVE NVR icon and select *Quick Config*.

Wisenet WAVE NVR Panel Guide

Configure New Wisenet WAVE NVR

Name:

Wisenet WAVE Server Version
<none>

Connection Info

Address:

Port: 7001

Username:

Password:

Protocol: RTSP

Cameras:

Name	Camera ID	PTZ Enabled
------	-----------	-------------

Camera Settings

Connect Directly: ☐

Detected URL:

Custom URL:

Custom URL overrides the selected Detected URL.

Use Anonymous Login: ☐ Username:

Password:

Leave these blank to use the NVR's login credentials.

Figure 8 – Wisenet WAVE NVR Panel Quick Config Dialog

Change the **Name** of the panel to describe its use or location. In our example, the Wisenet WAVE NVR is located at PS101.

Set the **Address** to the panel address of the Wisenet WAVE NVR. This can be the IP address or the DNS address. Set the **Port**; 7001 is the default value for the Wisenet WAVE NVR. Fill in the **Username** and **Password**. Leave the **Protocol** field set to *RTSP*. It is there for future development. Then apply the new settings by clicking the button.

Note: The username and password are used in the URL when logging in to Wisenet WAVE VMS. This means the password cannot contain '@' or ':' since these characters are delimiters.

<http://username:password@wisenetWAVEVMS.com>

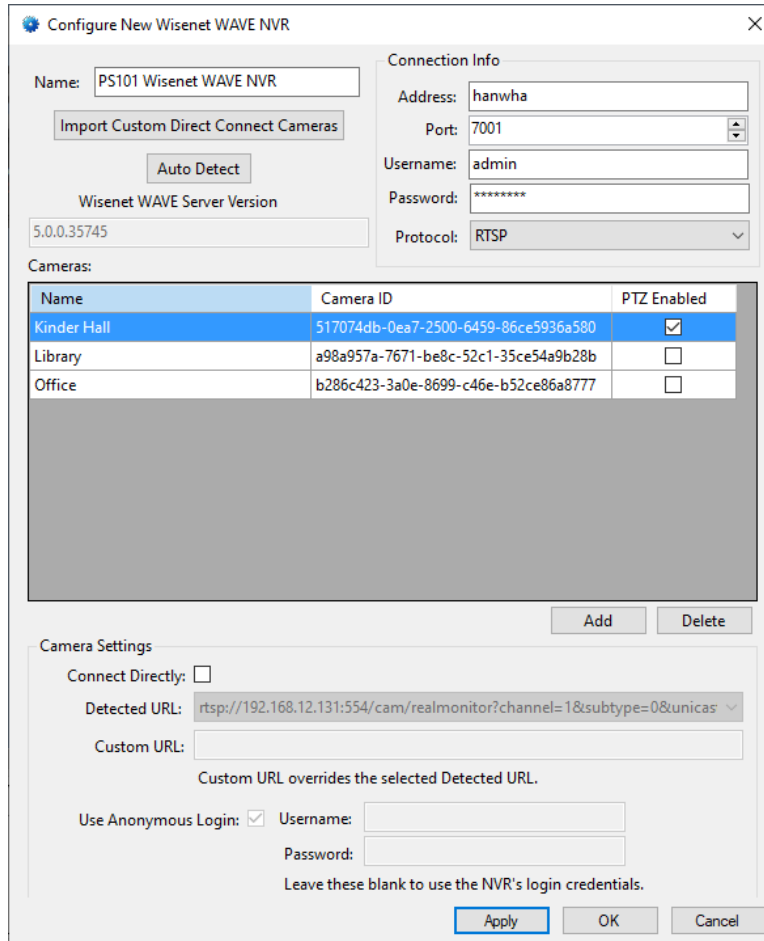
Wisenet WAVE NVR Panel Guide

Because this is the way the API logs in, we strongly suggest that you create a User on the Wisenet WAVE VMS that is only used by Intelli-Site and limit the permissions to View event log, View archive, View bookmarks, and User Input. Also select the appropriate cameras and resources.

There are three ways to add cameras. Automatically detect the cameras by querying the Wisenet WAVE NVR directly, adding an individual camera by hand, or importing cameras from a tab-delimited file.

Auto Detect Cameras

The first, and easiest way to import cameras is to use the **Auto Detect** button. Intelli-Site will query the Wisenet WAVE NVR for the list of cameras and populate the **Cameras** table.



Configure New Wisenet WAVE NVR

Name: PS101 Wisenet WAVE NVR

Import Custom Direct Connect Cameras

Auto Detect

Wisenet WAVE Server Version: 5.0.0.35745

Connection Info

Address: hanwha

Port: 7001

Username: admin

Password: *****

Protocol: RTSP

Cameras:

Name	Camera ID	PTZ Enabled
Kinder Hall	517074db-0ea7-2500-6459-86ce5936a580	☒
Library	a98a957a-7671-be8c-52c1-35ce54a9b28b	☐
Office	b286c423-3a0e-8699-c46e-b52ce86a8777	☐

Add Delete

Camera Settings

Connect Directly: ☐

Detected URL: rtsp://192.168.12.131:554/cam/realmonitor?channel=1&subtype=0&unicas

Custom URL:

Custom URL overrides the selected Detected URL.

Use Anonymous Login: ☒ Username: Password:

Leave these blank to use the NVR's login credentials.

Apply OK Cancel

Figure 9 – Quick Config after auto detecting the cameras

Wisenet WAVE NVR Panel Guide

If there are any PTZ enabled cameras attached to this NVR, the PTZ presets will also be imported.

Manually Enter Cameras

Cameras can be manually entered, one at a time. You can enter cameras that are not managed by the NVR or paths to directly connect to a camera, bypassing the NVR.

The **Camera Settings** group box contains the settings needed to directly connect to a camera instead of streaming from the Wisenet WAVE NVR. Directly connecting to a camera is not the recommended method for the majority of installations. It is not explained here but is covered in [Wisenet WAVE NVR Quick Config](#).

If for some reason Intelli-Site does not locate all of the cameras or you don't want to automatically detect them, you can add cameras by hand or import them from a tab-delimited file. If that is the case, you must know the **Camera ID** number for each camera. There are two possible IDs. The better ID is the one generated by Wisenet WAVE NVR itself which is the ID Intelli-Site displays after auto-detection. If for some really weird reason you don't have the camera ID, you can use the hardware address.

Note: The hardware address does not work if the camera is attached to a network encoder with multiple cameras.

Wisenet WAVE NVR Panel Guide

Click the **Add** button under the **Cameras** table. A new entry is added.

Name	Camera ID	PTZ Enabled
Kinder Hall	517074db-0ea7-2500-6459-86ce5936a580	☒
Library	a98a957a-7671-be8c-52c1-35ce54a9b28b	☐
Office	b286c423-3a0e-8699-c46e-b52ce86a8777	☐
New Wisenet WAVE Camera	00-00-00-00-00	☐

Figure 10 - Quick Config with a new camera added manually

In the **Name** cell, enter the camera's name. In the **Camera ID** cell, enter the camera's ID. Check the **PTZ Enabled** check box if the camera is a PTZ camera.

Repeat the process until all of the cameras are present. Click **OK** to save the settings.

Import Cameras from a File

The Wisenet WAVE NVR panel can be used to directly connect to cameras instead of streaming from the NVR itself. If there is a number of said cameras, adding them one-by-one can be cumbersome. By using the button, these cameras can be imported quickly and without error assuming the file is properly configured.

Wisenet WAVE NVR Panel Guide

The file must be a tab-delimited file. The first row of the file contains the headers. The required headers are "Name" and "IP Address or URL". The optional headers are "Username", "Password", and "PTZ Enabled".

Once your file is ready, click **Import Custom Direct Connect Cameras**. An **Add Multiple Cameras** dialog appears.

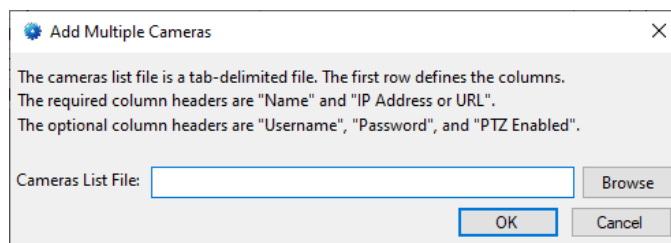


Figure 11 - Add Multiple Cameras dialog

Click the browse button and locate the cameras file. Then click **OK**.

Wisenet WAVE NVR Panel Guide

Configure PS101 Wisenet WAVE NVR

Name: PS101 Wisenet WAVE NVR

Import Custom Direct Connect

Auto Detect

Wisenet WAVE Server Version
5.0.0.35745

Connection Info

Address: hanwha

Port: 7001

Username: admin

Password: *****

Protocol: RTSP

Name	Camera ID	PTZ Enabled
Kinder Hall	517074db-0ea7-2500-6459-86ce5936a580	☒
Library	a98a957a-7671-be8c-52c1-35ce54a9b28b	☐
Office	b286c423-3a0e-8699-c46e-b52ce86a8777	☐
Axis	00000000-0000-0000-0000-000000000000	☐
Sport Performance Center	00000000-0000-0000-0000-000000000000	☐
Main Entrance	00000000-0000-0000-0000-000000000000	☐
Local Axis	00000000-0000-0000-0000-000000000000	☐

Add Delete

Camera Settings

Connect Directly: ☒

Detected URL: None Detected

Custom URL: 192.168.12.145

Custom URL overrides the selected Detected URL.

Use Anonymous Login: ☐ Username: root

Password: ****

Leave these blank to use the NVR's login credentials.

Apply OK Cancel

Figure 12 - Quick Config dialog after

When a camera is selected in the **Cameras** table, that camera's details are shown in the **Camera Settings** group box. For the newly imported cameras, **Connect Directly** is checked and **Detected URL** is *None Detected*. The rest of the fields contain the information that was imported from the file.

Wisenet WAVE NVR Panel Guide

Enable the Wisenet WAVE driver

At this point, the Wisenet WAVE NVR and the Wisenet WAVE driver are configured, but the driver is not online. A quick way to know this is that the communication indicator is grey.

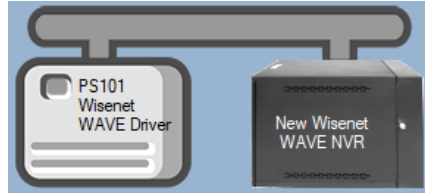


Figure 13 – Disabled Wisenet WAVE driver

Right-click on the driver to open the context menu; select *Enable Driver*. The communications indicator will change color to green when it's online.

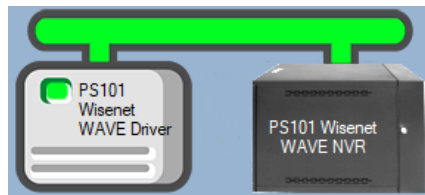


Figure 14 - Enabled Wisenet WAVE driver

Note: The Client initiates streaming connection. The Wisenet WAVE driver must be enabled, but the Driver Service is not necessary.

Congratulations! The Wisenet WAVE NVR is integrated and ready to use in  **Video View** and in screen design for  **Live View**. Screen design occurs in  **Design View**.

Streaming Video

Video streams from the Wisenet WAVE NVR can be viewed in  **Video View** or  **Live View**.  **Video View** allows the user to stream live video as well as playback if applicable. See the Intelli-Site User's Guide for information on  **Video View**. This section explains the programming necessary to stream video in  **Live View**.

Note: *Programming is done in  **Design View**. Once programmed, it is used in  **Live View**.*

The philosophy of video streaming is that each video display screen object is expected to stream video from at least one camera. The video display contains a table that defines the cameras from which it will stream video. A counter value controls which stream to display. Therefore, a counter must be added to the project for every video display screen object.

Programming

Programming is simple. It requires a video display screen object, a counter per video display screen object, and counter values for each camera configuration the video display screen object is configured to display. Once the video display screen object is configured, additional screen objects are needed to trigger video streaming.

Intelli-Site has automated the configuration and programming for those video displays that will only display one video from one camera at a time. If for some reason, the video display must stream from two or more cameras simultaneously, you will need to program it by hand.

Automatic Programming

The following walks you through the automatic programming of the video display for streaming one camera at a time. You will:

- Add a counter to the Tree and
- Add a video display screen object and configure it.

Wisenet WAVE NVR Panel Guide

Add a Counter

Which camera or set of cameras to display is controlled by a counter and its counter values. Add the counter to the Tree by right-clicking on the area node and selecting *Add Node*. In the **Add Panel** dialog, select *Counters* then click . Expand the new **Counters** node to reveal the group node and the new counter.

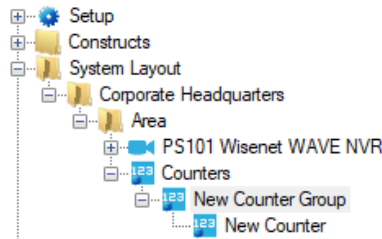
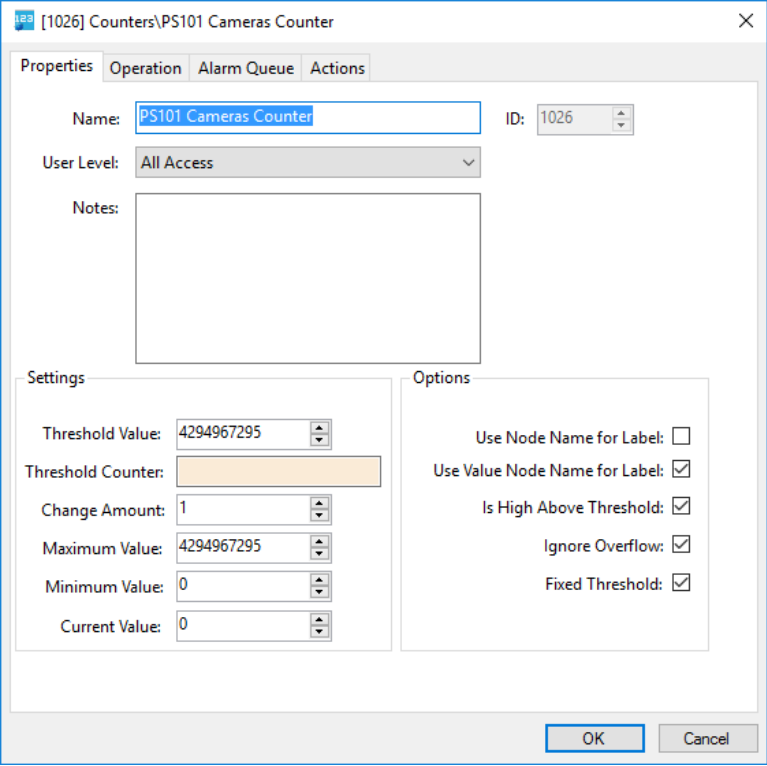


Figure 15- The expanded Counters node

We strongly suggest the names for these nodes be changed to ones that describe their purpose so that the next person that comes along doesn't have problems understanding their use. In keeping with our PS101 example, we named the group node **Video Display Counters Group**. The specific counter we named **PS101 Cameras Counter**.

Open the properties dialog for the counter, change the **Name** and check **Use Value Name for Label**. All of the other default values are fine.

Wisenet WAVE NVR Panel Guide



The image shows a software dialog box titled "[1026] Counters\PS101 Cameras Counter". It has four tabs: "Properties", "Operation", "Alarm Queue", and "Actions". The "Properties" tab is active. It contains the following fields:

- Name:** PS101 Cameras Counter
- ID:** 1026
- User Level:** All Access
- Notes:** (empty text area)

Below these are two sections:

- Settings:**
 - Threshold Value:** 4294967295
 - Threshold Counter:** (empty text box)
 - Change Amount:** 1
 - Maximum Value:** 4294967295
 - Minimum Value:** 0
 - Current Value:** 0
- Options:**
 - Use Node Name for Label:** ☐
 - Use Value Node Name for Label:** ☒
 - Is High Above Threshold:** ☒
 - Ignore Overflow:** ☒
 - Fixed Threshold:** ☒

At the bottom right are "OK" and "Cancel" buttons.

Figure 16 - Counter Properties Dialog

Add a Video Display Screen Object

The video display screen object is the workhorse of streaming video. It has the ability to display multiple streams at a time, switch between different streams, take snapshots, and even open a PTZ pad.

To add a video display to a screen, you must first be in **Design View**. Once in **Design View**, locate the **Create Video Display** tool in the **Design View** toolbar. Click on it to select it. Then use the mouse to draw the object on the screen. Place the mouse at one corner of the object, hold down the right mouse button and drag the mouse to the opposite corner then let up the button. A black quadrangle appears on the screen.

Wisenet WAVE NVR Panel Guide

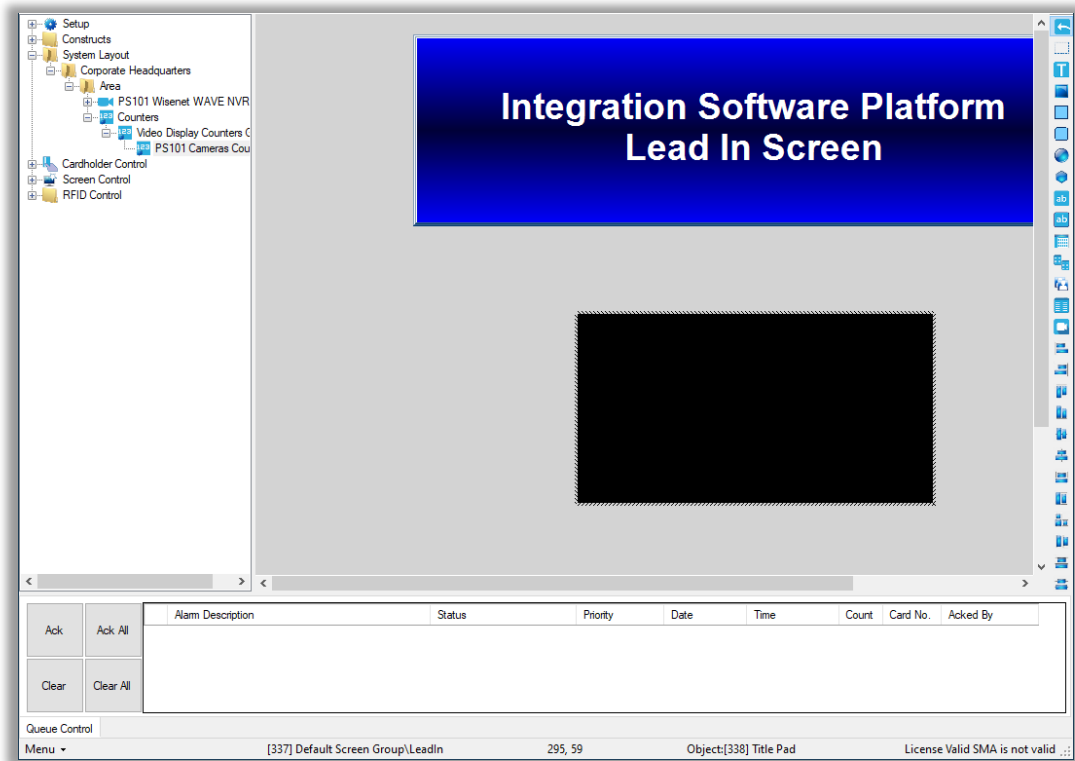


Figure 17 - Video Display Screen Object

Right-click on the video display screen object to open its properties.

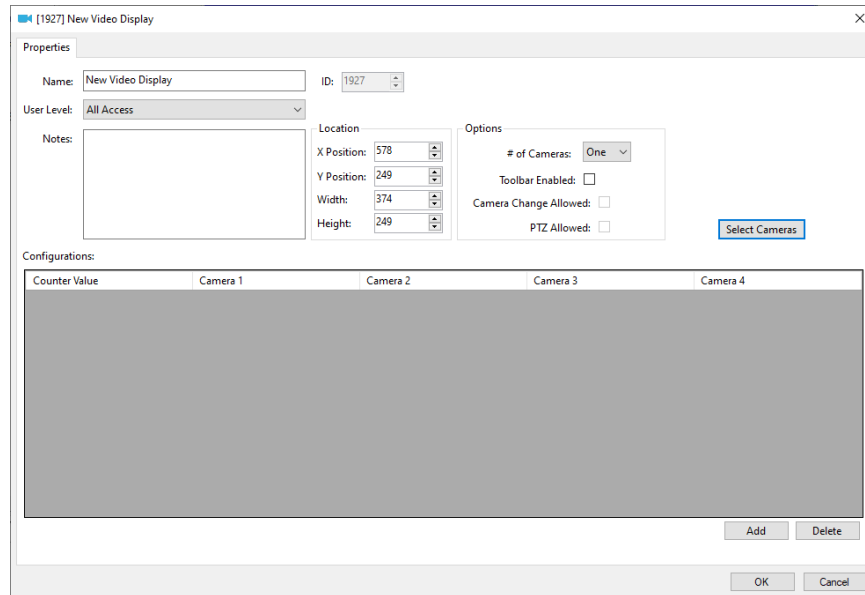


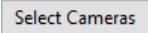
Figure 18 - Video Display Properties Dialog

Wisenet WAVE NVR Panel Guide

Change the **Name** field to describe the purpose of this video display.

The **Location** group box contains the fields associated with the location and size of the video display screen object. These are updated when the object is dragged around the screen or when it is resized.

The **Options** group box contains the fields that define the video display parameters. When **Toolbar Enabled** is checked, the toolbar for the video display will appear when the mouse hovers over it. When checked, **Camera Change Allowed** and **PTZ Allowed** are enabled. If **Camera Change Allowed** is checked, the video display toolbar will include the camera selection tool. If **PTZ Allowed** is checked the toolbar will include the PTZ pad.

The  button is only enabled when **# of Cameras** is set to *One*. This button runs the automatic configuration wizard. Click it. A **Select Cameras** dialog displays.

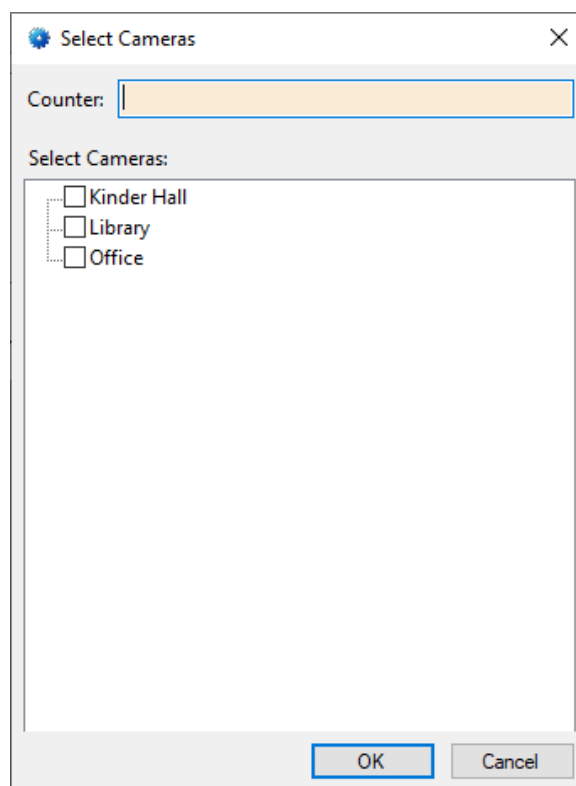


Figure 19 - Select Cameras dialog

Wisenet WAVE NVR Panel Guide

The automatic configuration wizard needs to know what counter and which cameras. Click in the **Counter** drop box and select the desired counter and check the desired cameras. Then click **OK**. Intelli-Site will add counter values to the Tree for each camera selected and add rows to the **Configurations** table. Click **OK** on the video display properties to save it.

Properties

Name: PS101 Video Display ID: 1337

User Level: All Access

Notes:

Location: X Position: 328 Y Position: 305 Width: 371 Height: 200

Options: # of Cameras: One Toolbar Enabled: ☐ Camera Change Allowed: ☐ PTZ Allowed: ☐ **Select Cameras**

Configurations:

Counter Value	Camera 1	Camera 2	Camera 3	Camera 4
[1338] PS101 Cameras Counter\...				
[1339] PS101 Cameras Counter\K...	[1328] PS101 Wisenet WAVE NVR...			
[1340] PS101 Cameras Counter\L...	[1330] PS101 Wisenet WAVE NVR...			
[1341] PS101 Cameras Counter\...	[1332] PS101 Wisenet WAVE NVR...			

Add **Delete** **OK** **Cancel**

Figure 20 - Video Display properties dialog after **Select Cameras**

Now go to [Add Counter Value Screen Objects](#).

Programming by Hand

The following walks you through

- Adding the counter to the Tree,
- Adding counter values to that counter, and
- Adding a video display screen object and configuring it.

The last thing that must be done is adding counter value screen objects.

Wisenet WAVE NVR Panel Guide

Add a Counter

Which camera or set of cameras to display is controlled by a counter and its counter values. Add the counter to the Tree by right-clicking on the area node and selecting *Add Node*. In the **Add Panel** dialog, select *Counters* then click . Expand the new **Counters** node to reveal the group node and the new counter.

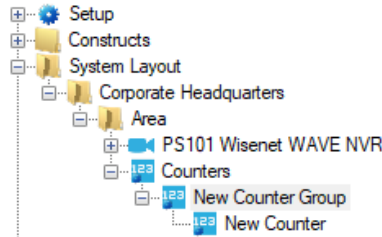
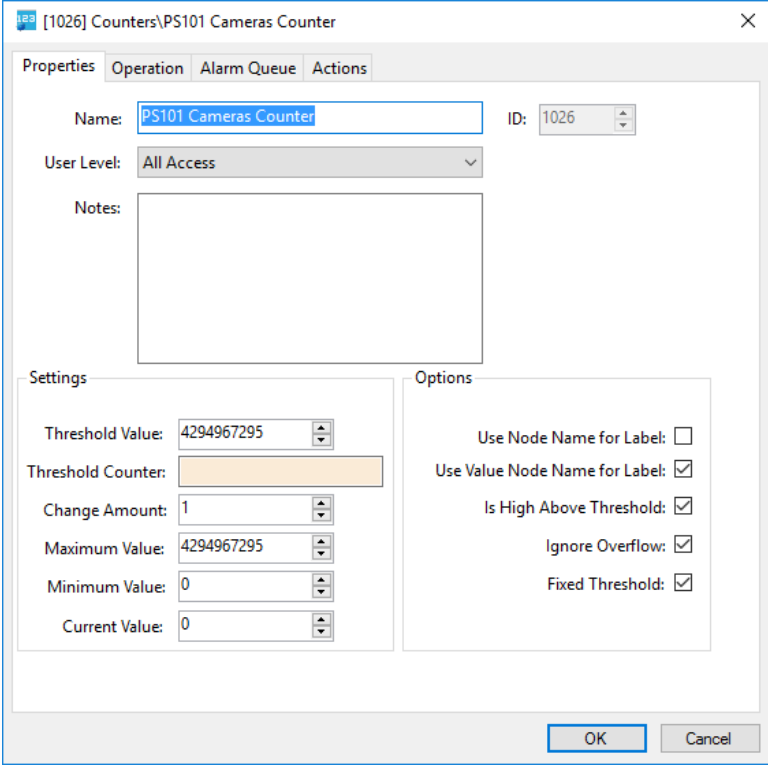


Figure 21- The expanded Counters node

We strongly suggest the names for these nodes be changed to ones that describe their purpose so that the next person that comes along doesn't have problems understanding their use. In keeping with our PS101 example, we named the group node **Video Display Counters Group**. The specific counter we named **PS101 Cameras Counter**.

Open the properties dialog for the counter, change the **Name** and check **Use Value Name for Label**. All of the other default values are fine.

Wisenet WAVE NVR Panel Guide



The image shows a software dialog box titled "[1026] Counters\PS101 Cameras Counter". It has four tabs: "Properties", "Operation", "Alarm Queue", and "Actions". The "Properties" tab is active. It contains the following fields:

- Name:** PS101 Cameras Counter
- ID:** 1026
- User Level:** All Access
- Notes:** (empty text area)
- Settings:**
 - Threshold Value:** 4294967295
 - Threshold Counter:** (empty text box)
 - Change Amount:** 1
 - Maximum Value:** 4294967295
 - Minimum Value:** 0
 - Current Value:** 0
- Options:**
 - Use Node Name for Label: ☐
 - Use Value Node Name for Label: ☒
 - Is High Above Threshold: ☒
 - Ignore Overflow: ☒
 - Fixed Threshold: ☒

At the bottom right are "OK" and "Cancel" buttons.

Figure 22 - Counter Properties Dialog

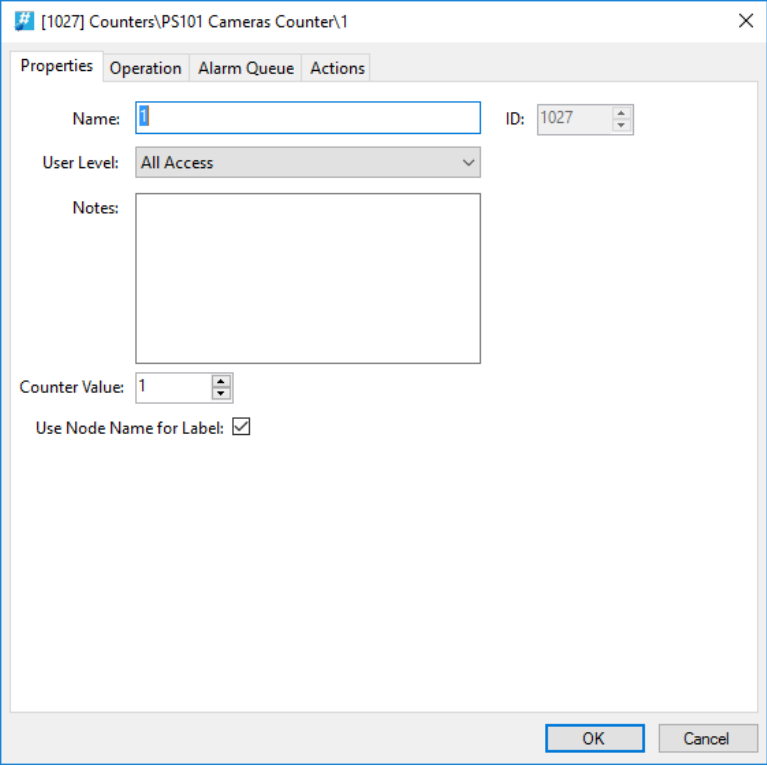
Add Counter Values

The camera configuration to display on a video display screen object is determined by the value of a counter. When the counter changes to the value for a configuration line in the video display's configuration table, that configuration of cameras will be displayed. This will become clearer in the next section. But understand it is important to have specific counter value nodes added to the Tree to control which cameras are streaming on a video display.

In our example, we want four (4) counter values for Disconnect, the Kinder Hall, Office, and Library. Disconnect is special. This is the value of the counter when no camera streams are to be displayed. We will add it singly using *Add Node and Edit*, and then add the others using *Add Multiple*...

To add the Disconnect counter value, right-click on the counter node and select *Add Node and Edit*.

Wisenet WAVE NVR Panel Guide

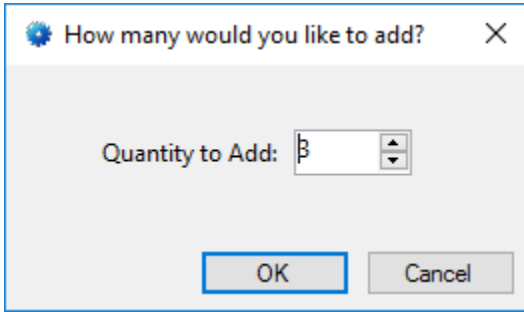


The image shows a software dialog box titled "[1027] Counters\PS101 Cameras Counter\1". It has four tabs: "Properties", "Operation", "Alarm Queue", and "Actions". The "Properties" tab is active. Inside the tab, there are several fields: "Name" with a text input containing "1", "ID" with a dropdown menu showing "1027", "User Level" with a dropdown menu showing "All Access", "Notes" with a large empty text area, "Counter Value" with a spinner box showing "1", and a checkbox labeled "Use Node Name for Label" which is checked. At the bottom right, there are "OK" and "Cancel" buttons.

Figure 23 - Counter Value Node Properties dialog

Notice that the **Name** and **Counter Value** are 1. Best practices suggest that the value for Disconnect should be zero (0). Therefore, set the **Counter Value** to zero (0). Change the **Name** to Disconnect. Also, check **Use Node Name for Label** this way the automatically created screen object for this node will be labeled Disconnect and not 0. Click the button to save the changes.

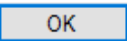
Now let's add the rest of the counter values. Right-click on the counter node and select *Add Multiple...*



The image shows a small dialog box titled "How many would you like to add?". It has a gear icon on the left and a close button (X) on the right. Inside the dialog, there is a label "Quantity to Add:" followed by a spinner box containing the number "3". At the bottom, there are "OK" and "Cancel" buttons.

Figure 24 - How many would you like to add? dialog

Wisenet WAVE NVR Panel Guide

In the **How many would you like to add?** dialog, enter desired number. In the case of the example, we want three (3) more. Click the  button.

Expand the counter node to reveal the new counter value nodes. Notice that they are named 1, 2, 3, etc.

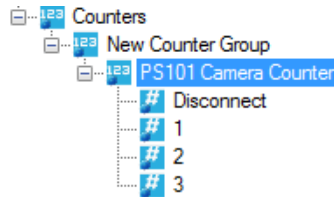


Figure 25 - The New Counter Value Nodes

The properties for each counter value should be modified so that the **Name** is easily understandable, and **Use Node Name for Label** is checked.

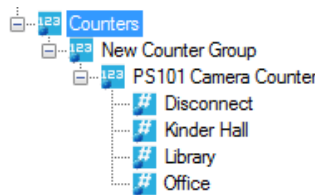


Figure 26 - The properly configured Counter Value Nodes

Now we're ready to begin the video display screen object programming.

Add a Video Display Screen Object

The video display screen object is the workhorse of streaming video. It has the ability to display multiple streams at a time, switch between different streams, take snapshots, and even open a PTZ pad.

To add a video display to a screen, you must first be in  **Design View**. Once in  **Design View**, locate the  **Create Video Display** tool in the  **Design View** toolbar. Click on it to select it. Then use the mouse to draw the object on the screen. Place the mouse at one corner of the object, hold down the right mouse button and drag the mouse to the opposite corner then let up the button. A black quadrangle appears on the screen.

Wisenet WAVE NVR Panel Guide

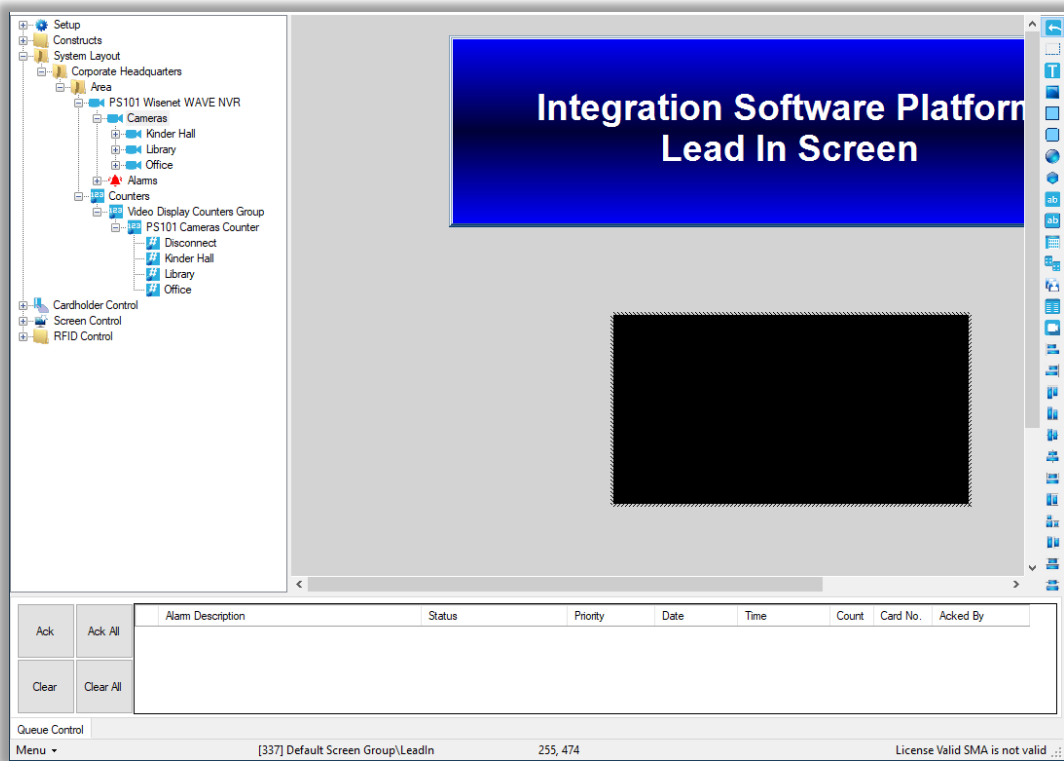


Figure 27 - Video Display Screen Object

Right-click on the video display screen object to open its properties.

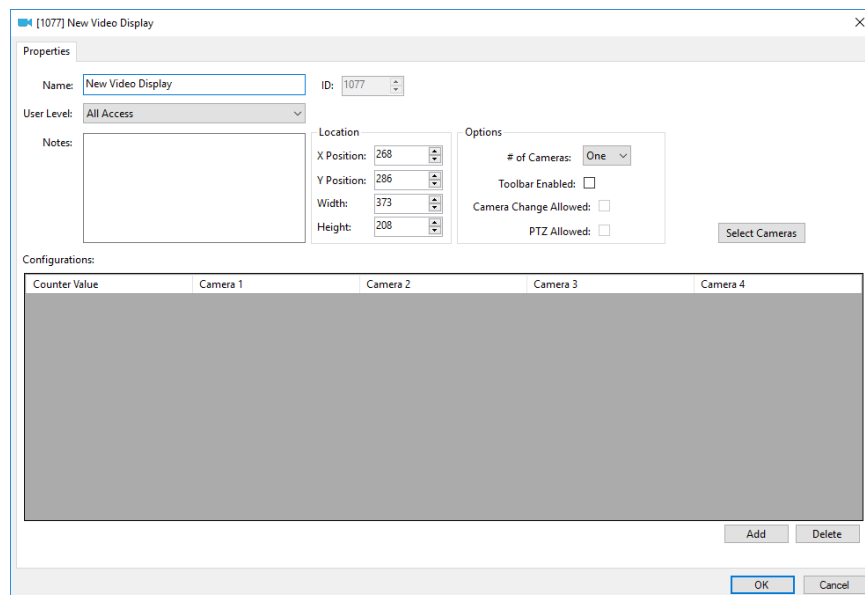


Figure 28 - Video Display Properties Dialog

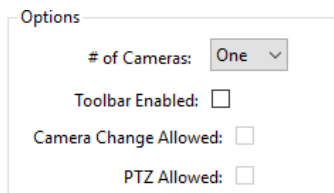
Wisenet WAVE NVR Panel Guide

Change the **Name** field to describe the purpose of this video display.

The **Location** group box contains the fields associated with the location and size of the video display screen object. These are updated when the object is dragged around the screen or when it is resized.

Options Group Properties

Take a look at the **Options** group box.



Options

of Cameras: One ▾

Toolbar Enabled: ☐

Camera Change Allowed: ☐

PTZ Allowed: ☐

of Cameras – drop-down menu; the number of video streams to display at one time, possible values are *One*, *Two*, or *Four*; Intelli-Site will divide the display screen into the number of cameras selected

If *Two* cameras is selected, Intelli-Site will divide the video display screen object into two video displays. The longer dimension, height or width, determines if the two displays are side by side or top and bottom. If the height is the longer dimension, the Camera 1 will be on top and Camera 2 will be on bottom. If the width is longer, then Camera 1 will be on the left and Camera 2 on the right.

When *Four* is selected, the video display screen into four video displays. Camera 1 is the top left display, Camera 2 is the top right display, Camera 3 is the bottom left display, and Camera 4 is bottom right display.

Toolbar Enabled – When checked, the toolbar for the video display will appear when the mouse hovers over it; the two fields below it are enabled as well

Camera Change Allowed – Enabled when **Toolbar Enabled** is checked; when checked, the user will be able to change the displayed cameras using the camera configuration drop-down menu in the toolbar

Wisenet WAVE NVR Panel Guide

PTZ Allowed – Enabled when **Toolbar Enabled** is checked; when checked, the user will be able to open the PTZ pad in the toolbar if the camera is a PTZ enabled camera

Configurations Table

The **Configurations** table contains the definitions of desired camera configurations.

Configurations:

Counter Value	Camera 1	Camera 2	Camera 3	Camera 4
---------------	----------	----------	----------	----------

Figure 29 - Configurations Table

Notice there are four columns for cameras. These camera columns correspond to the **# of Cameras** field in the **Options** group box. If *One* is selected, only the cameras in the **Camera 1** column will display. If *Two* is selected, then columns **Camera 1** and **Camera 2** are displayed. And of course, if *Four* is selected, then all four camera columns display.

Each line of the table links a counter value to a camera arrangement. When the counter is set to the specified counter value, the video display screen object will display the corresponding camera arrangement. Therefore, to display no video, a line with no cameras will be needed.

Use to add a line to the **Configurations** table. Use to delete the highlighted line of the table.

Returning to our example, we want to display Kinder Hall, the Office, the Cafeteria, and the Library. We are only going to display them one at a time which means we need a line for each camera and a line for no cameras for a total of five (5) lines. Use to add a line to the **Configurations** table. Click in the **Counter Value** cell of the new line. The **Select Tree Item** dialog appears with all of the counter values in the Tree.

Wisenet WAVE NVR Panel Guide

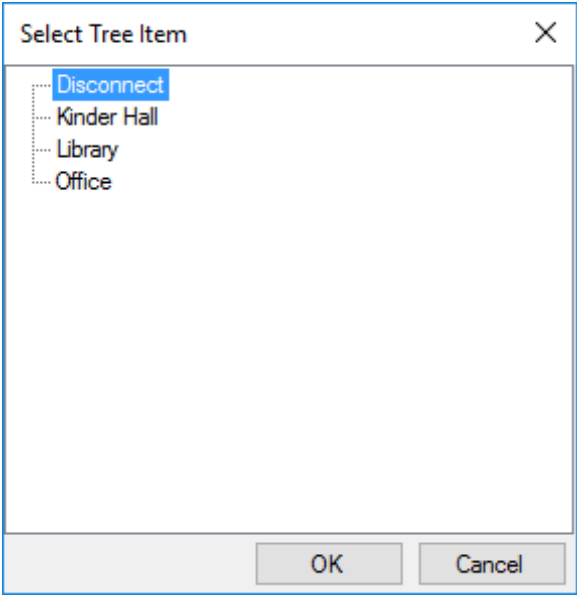
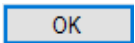


Figure 30 - Select Tree Item dialog for Counter Values

These are the counter values that we added in [Add Counter Values](#). Select the counter value that you want to use for the no cameras configuration. We called that one **Disconnect**. Click .

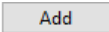
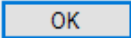
Configurations:

Counter Value	Camera 1	Camera 2	Camera 3	Camera 4
[1338] PS101 Cameras Counter\...				

[1338] PS101 Cameras Counter\Disconnect

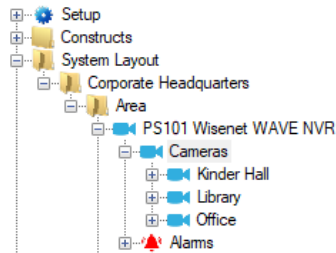
AddDelete

Figure 31 – Configurations Table with the Disconnect definition

Click  again. Click in the **Counter Value** cell of the new line. The **Select Tree Item** dialog appears with all of the counter values in the Tree. Select the counter value that you want to use for the next camera configuration then click . Drag and drop the corresponding camera into the **Camera 1** cell.

Wisenet WAVE NVR Panel Guide

Note: The camera nodes are located in the Project Node Tree by expanding the Wisenet WAVE NVR node and its Cameras child node.



Configurations:

Counter Value	Camera 1	Camera 2	Camera 3	Camera 4
[1338] PS101 Cameras Counter\...				
[1339] PS101 Cameras Counter\K...	[1328] PS101 Wisenet WAVE NVR...			
	[1328] PS101 Wisenet WAVE NVR\Kinder Hall			

Figure 32 - Configurations Table with Two Lines

Repeat until there are definitions for each of the camera configurations in the **Configurations** table.

Configurations:

Counter Value	Camera 1	Camera 2	Camera 3	Camera 4
[1338] PS101 Cameras Counter\...				
[1339] PS101 Cameras Counter\K...	[1328] PS101 Wisenet WAVE NVR...			
[1340] PS101 Cameras Counter\L...	[1330] PS101 Wisenet WAVE NVR...			
[1341] PS101 Cameras Counter\...	[1332] PS101 Wisenet WAVE NVR...			

Figure 33 - Example Configurations Table

Make sure to click  to save the changes made to the video display screen object.

Wisenet WAVE NVR Panel Guide

The last thing that must be done is adding counter value screen objects.

Add Counter Value Screen Objects

The last thing needed is screen objects to select the desired camera's video stream to display. Drag and drop the counter values to the screen to make counter value screen objects.

Note: *After the first counter value screen object has the desired look, you might want to use Replicate to create the rest of the screen objects. See the Intelli-Site User's Guide.*

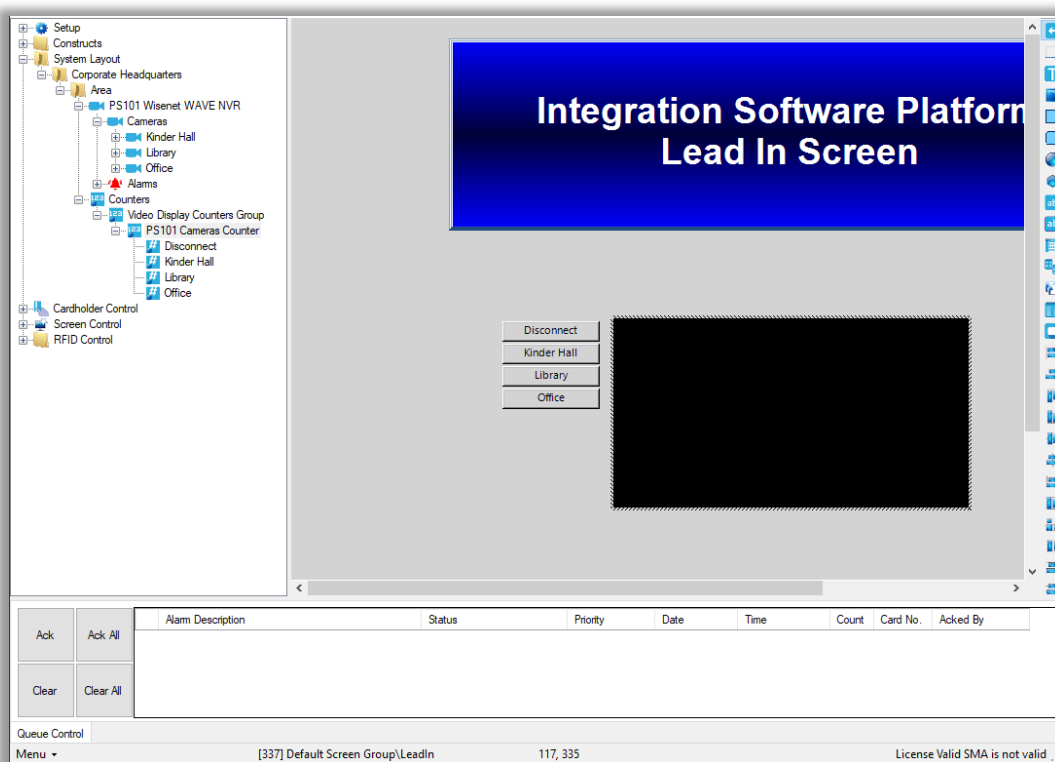


Figure 34 - Design View fully programmed

Programming PTZ Presets

When a camera is a PTZ enabled camera with presets in Wisenet WAVE, those presets are imported during Auto Detect. They can be found in the Tree as child nodes of the camera.

Wisenet WAVE NVR Panel Guide

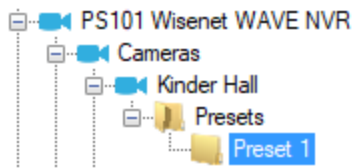
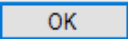
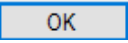


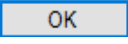
Figure 35 - Camera Presets nodes

When the preset node is the target of a *SendCommand*, the Wisenet WAVE driver sends the preset request to the Wisenet WAVE NVR. This command can be in any action grid that allows a *SendCommand*. Let's program a button to send the preset to the Wisenet WAVE NVR.

The button needs three commands. The first command is to set the live video object. The second is the preset command. And the third is the warm fuzzy so the user has feedback that the button was pressed.

Add a button to the screen using the  *Create Button* tool. Open the properties of this new button and switch to the **States** tab. In the action grid, click on the first cell in the **Action** column. The **Actions** dialog opens. Locate the *LiveVideo* command in the **Video** group. Click on it then click . Then drag and drop the video display screen object node from the Project Tree into the **Target** cell. To find this node in the Tree, expand **Screen Control->Screens** and its child nodes until you find the desired video display screen object.

Now, click on the **Action** cell of the second row of the action grid. In the lower right side of the **Actions** dialog is the **Panel** group of actions. Click on *SendCommand* then click . Then drag and drop the preset node in the **Target** cell.

And last but not least, add a third line to play a sound so the user gets feedback to know the button was clicked. A label would also be nice. Click  to save the programming.

Wisenet WAVE NVR Panel Guide

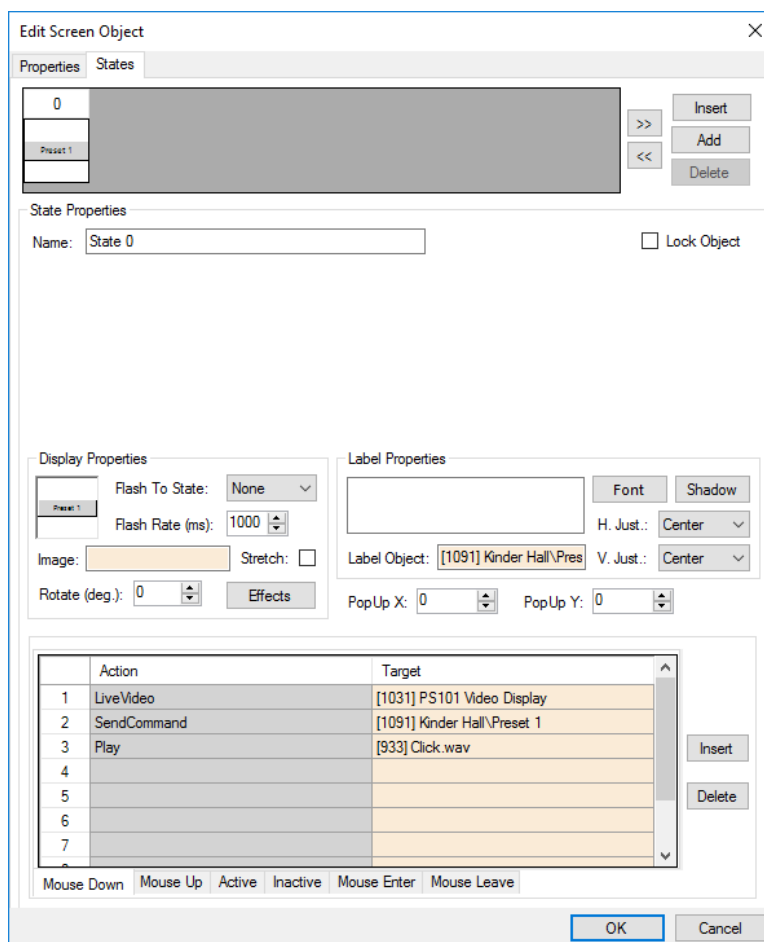


Figure 36 - Programming using Preset node

Now, in  **Live View**, when this button is clicked, the camera will be sent to the **Kinder Hall\Preset 1** preset.

Note: This same programming works if the Target of the SendCommand is a camera node. The video display will begin streaming from the camera node.

Live View

Now that everything is programmed, switch to  **Live View**.

Note: The Wisenet WAVE driver must be enabled for video to display. See [Enable the Wisenet WAVE driver](#).

Click on the button to display the desired video stream.

Wisenet WAVE NVR Panel Guide

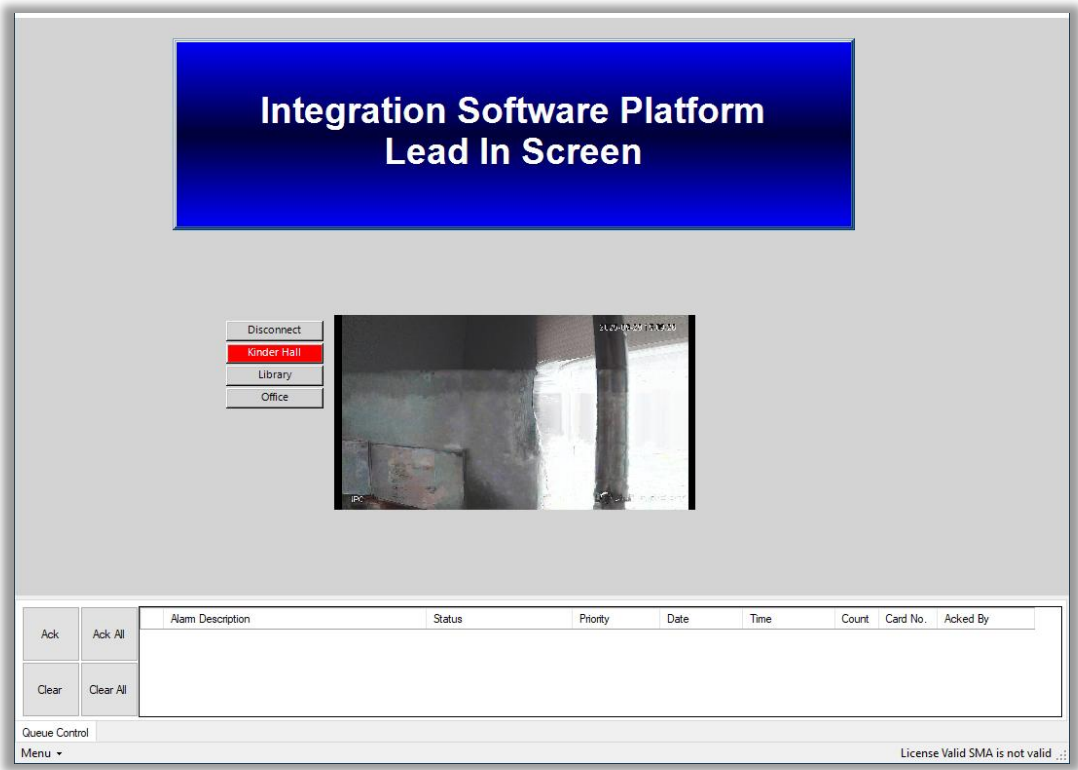


Figure 37 - Live View displaying video from Office

Wisenet WAVE NVR Panel Guide

Design View

 **Design View** is the home of the Project Node Tree and the place where screens and screen objects are programmed. The following sections explain:

- The Wisenet WAVE driver node properties,
- The Wisenet WAVE NVR node properties, and
- The programming needed to stream video in  **Live View**

Wisenet WAVE Driver Node

The Wisenet WAVE driver node is found by expanding **Setup->Computer Setup->Drivers**.

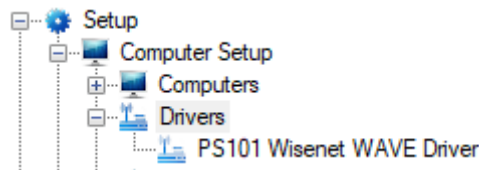
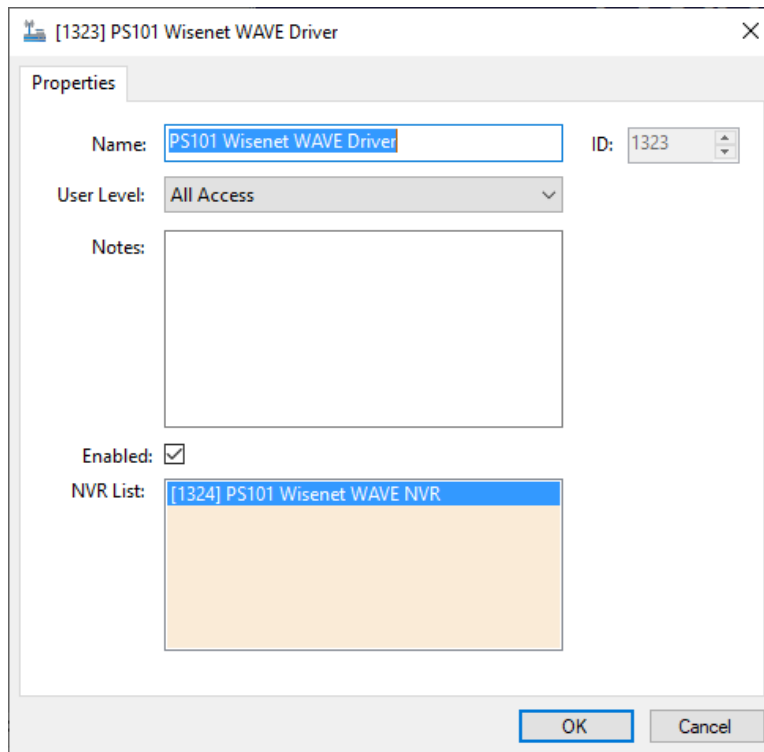


Figure 38 - Wisenet WAVE driver node in the Project Node Tree

Right-click on the Wisenet WAVE driver node and select *Properties* to open the properties dialog.

Wisenet WAVE NVR Panel Guide



The screenshot shows a Windows-style dialog box titled "[1323] PS101 Wisenet WAVE Driver". It has a "Properties" tab. Inside, there are several controls: a "Name:" label followed by a text box containing "PS101 Wisenet WAVE Driver"; an "ID:" label followed by a numeric spinner box set to "1323"; a "User Level:" label followed by a dropdown menu showing "All Access"; a "Notes:" label followed by a large empty text area; an "Enabled:" label followed by a checked checkbox; and an "NVR List:" label followed by a list box containing one item, "[1324] PS101 Wisenet WAVE NVR". At the bottom right are "OK" and "Cancel" buttons.

Figure 39 - Wisenet WAVE driver properties dialog

Name – edit box; the name for the node; the name doesn't have to be unique

ID – numeric (disabled); the unique identifier of this node; generated by Intelli-Site

User Level – drop-down menu (default: All Access); the User Level a user must possess to open the properties for this node

Notes – multiline edit box; any notes the user may have for the node

Enabled – check box; when checked the driver is enabled

NVR List- drop box; the Wisenet WAVE NVR nodes attached to this driver

Wisenet WAVE NVR Panel Guide

Wisenet WAVE NVR Panel

The Wisenet WAVE NVR panel node is found by expanding **System Layout** then the Site and Area to which the Wisenet WAVE NVR panel was added in  **Hardware Management View**. In the example below, the panel was added to the site **Corporate Headquarters** and the area **Area**.

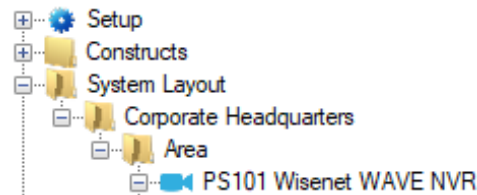


Figure 40 - The Wisenet WAVE NVR panel node in the Project Node Tree

The Wisenet WAVE NVR node is the root node for the panel. The following sections will explain:

- The properties of the Wisenet WAVE NVR node
- The configuration of the Wisenet WAVE NVR panel (a.k.a. the **Quick Config** dialog)
- The child nodes of the Wisenet WAVE NVR panel

Wisenet WAVE NVR Node Properties

Right-click on the Wisenet WAVE NVR node to open the properties. These fields are not accessible through the **Quick Config** dialog except for **Address**. They correspond to those features that aren't necessarily related to the configuration of the Wisenet WAVE NVR, but are related to how Intelli-Site handles the node.

Wisenet WAVE NVR Panel Guide

The screenshot shows a software window titled "[1324] PS101 Wisenet WAVE NVR". Inside, there's a "Properties" tab. The "Name" field is a text box containing "PS101 Wisenet WAVE NVR". The "ID" field is a spin box showing "1324". The "User Level" is a drop-down menu set to "All Access". Below it is a large empty text area for "Notes". Further down, there's a "Virtual" checkbox which is unchecked, followed by a "Virtual Point" text box. Below that is a disabled text box for "Wisenet WAVE Server Version" showing "5.0.0.35745". The "Default IP Camera Source Type" is a drop-down menu set to "Default". At the bottom right are "OK" and "Cancel" buttons.

Figure 41 - Wisenet WAVE NVR node properties dialog

Name – edit box; the name for the node; the name doesn't have to be unique

ID – numeric (disabled); the unique identifier of this node; generated by Intelli-Site

User Level – drop-down menu (default: All Access); the User Level a user must possess to open the properties for this node

Notes – multiline edit box; any notes the user may have for the node

Virtual – check box; when checked the panel is virtualized, allowing the driver to be brought online without having the physical panel available

Virtual Point – drop box; this I/O Point will be set when the panel is virtualized, clear when it is not

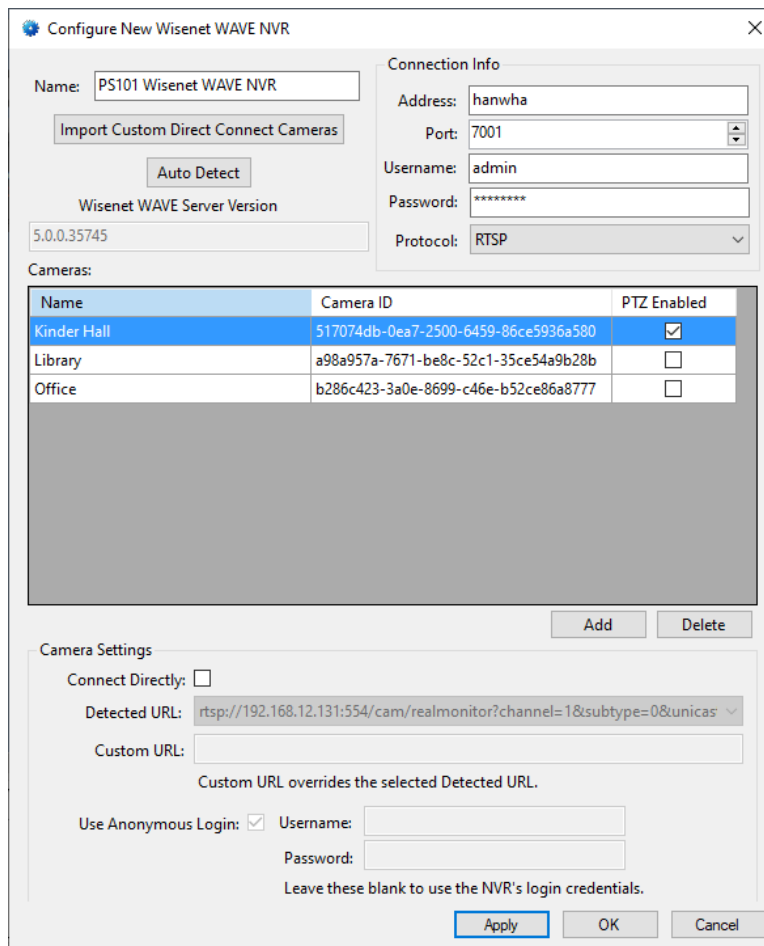
Wisenet WAVE Server Version – text box (disabled); the version of the Wisenet WAVE server discovered after auto detect

Wisenet WAVE NVR Panel Guide

Default IP Camera Source Type – drop-down menu (default: Default); the camera source type to use as the default if one is not specified; change only at the suggestion of the manager of the Wisenet server itself

Wisenet WAVE NVR Quick Config

The **Quick Config** dialog is accessible either in  **Hardware Management View** or in  **Design View**. To open the **Quick Config** dialog, right-click on the Wisenet WAVE NVR panel node and select *Quick Config*.



The dialog box is titled "Configure New Wisenet WAVE NVR". It contains several sections:

- Name:** A text box containing "PS101 Wisenet WAVE NVR".
- Import Custom Direct Connect Cameras:** A button.
- Auto Detect:** A button.
- Wisenet WAVE Server Version:** A text box containing "5.0.0.35745".
- Connection Info:** A section with fields for Address ("hanwha"), Port ("7001"), Username ("admin"), Password ("*****"), and Protocol ("RTSP").
- Cameras:** A table with columns "Name", "Camera ID", and "PTZ Enabled".

Name	Camera ID	PTZ Enabled
Kinder Hall	517074db-0ea7-2500-6459-86ce5936a580	☒
Library	a98a957a-7671-be8c-52c1-35ce54a9b28b	☐
Office	b286c423-3a0e-8699-c46e-b52ce86a8777	☐
- Camera Settings:** A section with a "Connect Directly:" checkbox, a "Detected URL:" dropdown menu (showing "rtsp://192.168.12.131:554/cam/realmonitor?channel=1&subtype=0&unicas"), a "Custom URL:" text box, and a note "Custom URL overrides the selected Detected URL.".
- Use Anonymous Login:** A checkbox that is checked, followed by "Username:" and "Password:" text boxes.
- Buttons:** "Add", "Delete", "Apply", "OK", and "Cancel".

Figure 42 - Wisenet WAVE NVR panel Quick Config dialog

Name – edit box; the name of the Wisenet WAVE NVR panel; updating this field will change the name of the node; **Changes to this field are reflected on the Properties dialog.**

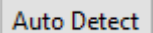
Address – edit box; the address of the Wisenet WAVE NVR panel, it can be the IP Address or the DNS name

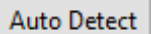
Wisenet WAVE NVR Panel Guide

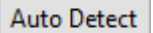
Port – numeric (default 7001); the TCP port of the Wisenet WAVE NVR; Wisenet WAVE NVR uses 7001 as its default value, but it is configurable

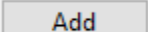
Username and **Password** – edit box; the login credentials of the Wisenet WAVE NVR

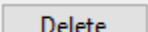
 - button; used to import cameras from a tab-delimited file; The first row of the file contains the headers. The required headers are "Name" and "IP Address or URL". The optional headers are "Username", "Password", and "PTZ Enabled".

 - button; used to find the cameras of the Wisenet WAVE NVR panel

Wisenet WAVE NVR Server Version – edit box (disabled); displays the version of the Wisenet WAVE NVR server; blank until an  is completed

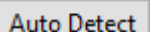
Cameras – table; the cameras of the Wisenet WAVE NVR panel; lists the name, camera ID, and if PTZ is enabled; only the name and camera ID can be determined using ; PTZ Enabled must be set by hand

 - button; add a new line to the **Cameras** table above the button

 - button; delete the highlighted camera line from the table above the button

Camera Settings group box – contains the settings for the selected camera in the **Cameras** table

Connect Directly – check box; when checked, the software will connect directly with the camera using the specified URL

Detected URL – drop-down menu; the list of streaming URLs discovered during ; the selected URL is used if there is no **Custom URL** specified

Wisenet WAVE NVR Panel Guide

Custom URL – edit box; a user-specified URL; when this field is not blank, it will override the selected URL in the **Detected URL** field

Use Anonymous Login – checkbox; when checked, the camera allows anonymous connections; therefore, the software will connect without supplying credentials; when clear, the software will use the specified credentials

Username – edit box; the username to use when logging in to the camera; if blank, the software uses the **Username** in the **Connection Info** group box

Password – edit box; the password to use when logging in to the camera; if blank, the software uses the **Password** in the **Connection Info** group box

Note: *These settings allow the user to connect to any camera that supports RTSP streaming. This camera does not need to be managed by the Wisenet WAVE NVR Server. Add the camera by hand, check Connect Directly and supply the Custom URL. As a rule of thumb, if the custom URL works in VLCPlayer, it will work in the software.*

Wisenet WAVE NVR Panel Child Nodes

Each Wisenet WAVE NVR panel node has two child nodes: **Cameras** and **Alarms**.

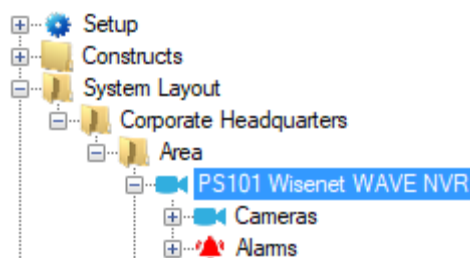


Figure 43 - Wisenet WAVE NVR panel child nodes

The cameras listed in the **Cameras** table in the **Quick Config** dialog are stored in the Project Node Tree as nodes under the **Cameras** node. The **Alarms** node contains the alarm points for the panel. At this time, there is only one alarm point: **Panel Status**.

Wisenet WAVE NVR Panel Guide

Camera Node

The camera node defines the pertinent information about the camera. Expanding the camera node reveals the **Presets** node.

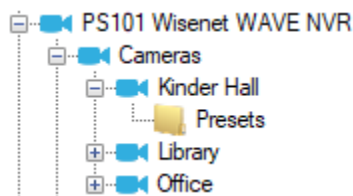


Figure 44 – Wisenet WAVE NVR Camera node and its child node

Camera Node Properties

Under the **Cameras** node are the camera nodes. The information about each camera is stored here.

Properties

Name: ID:

User Level:

Notes:

Camera ID:

PTZ Enabled: ☒ Source Type:

Connect Directly: ☐

Connection Settings

Detected URL:

Custom URL:

Custom URL overrides the selected Detected URL.

Use Anonymous Login: ☒

Username:

Password:

Leave these blank to use the NVR's login credentials.

OK Cancel

Figure 45 - Camera node Properties dialog

Wisenet WAVE NVR Panel Guide

In addition to the standard properties of **Name**, **ID**, **User Level**, and **Notes**, the following fields are present.

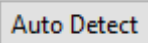
Camera ID – edit box; the ID of the camera

PTZ Enabled – check box; check this box when the camera is a PTZ camera

Source Type – drop-down menu (default : Default) ; the video encoding source type of the video streamed from this camera

Connect Directly – check box; when checked, the software will connect directly with the camera using the specified URL; when checked the **Connections Settings** fields will enable

Connection Settings group box – contains the settings to directly connect to the camera

Detected URL – drop-down menu; the list of streaming URLs discovered during ; the selected URL is used if there is no **Custom URL** specified

Custom URL – edit box; a user-specified URL; when this field is not blank, it will override the selected URL in the **Detected URL** field

Use Anonymous Login – checkbox; when checked, the camera allows anonymous connections; therefore, the software will connect without supplying credentials; when clear, the software will use the specified credentials

Username – edit box; the username to use when logging in to the camera; if blank, the software uses the **Username** in the **Connection Info** group box

Password – edit box; the password to use when logging in to the camera; if blank, the software uses the **Password** in the **Connection Info** group box

Note: *These settings allow the user to connect to any camera that supports RTSP streaming. This camera does not need to be managed by the Wisenet WAVE NVR Server. Add the camera by hand, check Connect Directly and supply the Custom URL. As a rule of thumb, if the custom URL works in VLCPlayer, it will work in the software.*

Wisenet WAVE NVR Panel Guide

Presets

Every camera has a **Presets** child node. It is only applicable to PTZ cameras because only PTZ cameras have preset positions. Intelli-Site loads all of the presets from Wisenet WAVE NVR if there are any defined and adds them as preset nodes. These nodes will then be used in  **Video View** to set the camera to the specified preset. It can also be used in  **Live View** to do the same thing.

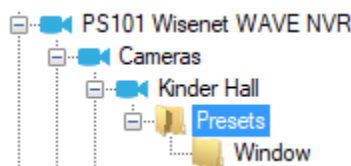


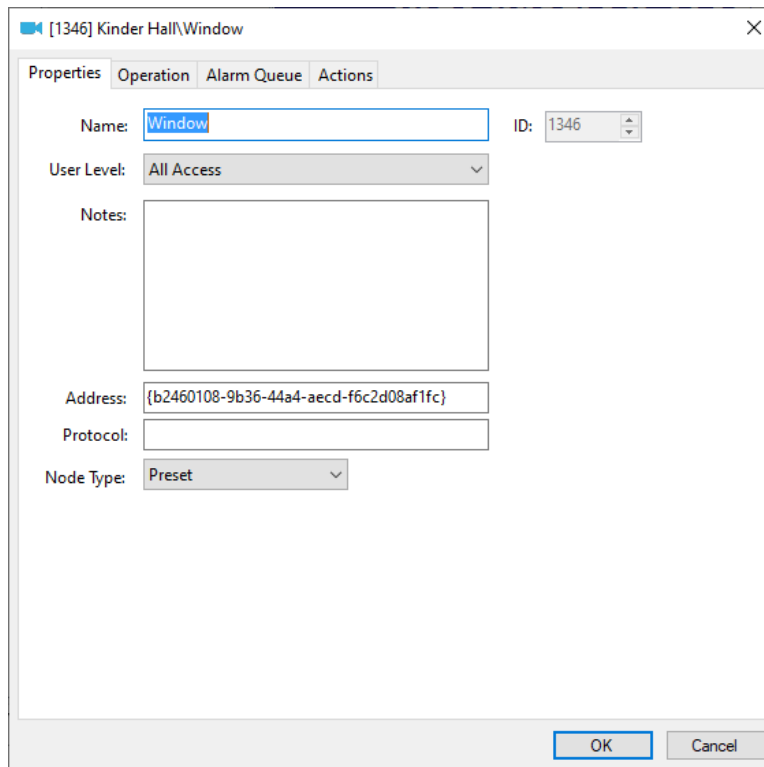
Figure 46 - Presets for the Kinder Hall camera

Presets are used in  **Video View** and  **Live View**.  **Video View** is simple and straight forward; whereas,  **Live View** requires some programming in  **Design View**.

Preset Node Properties

Each Preset node is a GenProto node. A GenProto node is an I/O Point with additional fields that can be used generically; hence, the name GenProto, generic protocol node.

Wisenet WAVE NVR Panel Guide



The image shows a software dialog box titled "[1346] Kinder Hall\Window". It has four tabs: "Properties" (selected), "Operation", "Alarm Queue", and "Actions". The "Properties" tab contains the following fields:

- Name:** A text box containing the word "Window".
- ID:** A numeric spinner box set to "1346".
- User Level:** A dropdown menu currently showing "All Access".
- Notes:** A large, empty text area.
- Address:** A text box containing the hexadecimal string "{b2460108-9b36-44a4-aecd-f6c2d08af1fc}".
- Protocol:** An empty text box.
- Node Type:** A dropdown menu currently showing "Preset".

At the bottom right of the dialog are "OK" and "Cancel" buttons.

Figure 47 - Preset node properties dialog

The fields that define the specific preset are the **Address** and **Node Type** fields. The value for **Node Type** defines this node as a preset node. The **Address** is the address of the camera as defined by Wisenet WAVE. Do not modify these fields. Doing so will render them useless. Intelli-Site loads the presets automatically.

For more detailed information on the GenProto node, see the Intelli-Site User's Guide.

Using Presets in Video View

For  **Video View**, select the target camera. Hover over the camera in the **Select Camera** drop-down menu to open the side menus. This will reveal the presets. Click on the desired preset to send the command to the camera.

Wisenet WAVE NVR Panel Guide

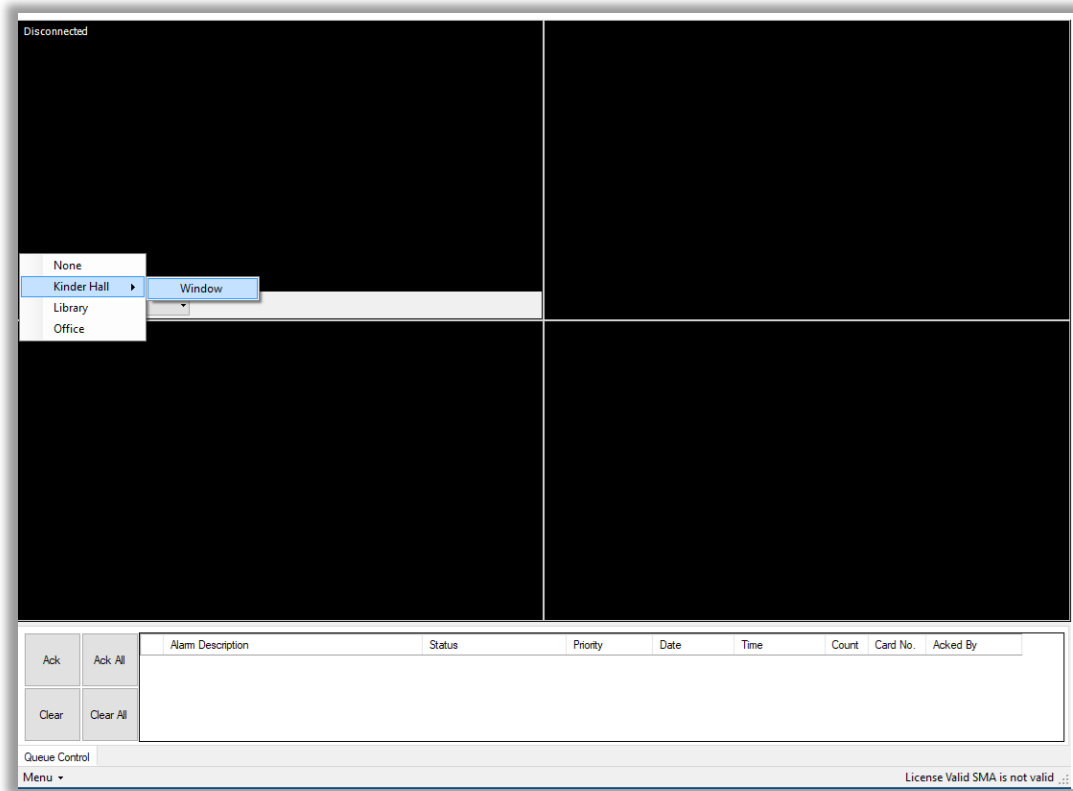


Figure 48 - Example Camera Presets in Video View

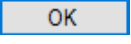
Using Presets in Live View

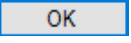
To use a preset in **Live View** requires a bit of programming in **Design View**. When the preset node is the target of a *SendCommand*, the Wisenet WAVE driver sends the preset request to the Wisenet WAVE NVR. This command can be in any action grid that allows a *SendCommand*. To illustrate, let's program a button.

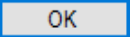
First, a video display screen object must be added to the Project. This may seem like a redundant statement because why wouldn't there be a video display? The user is most likely viewing the video stream when there is a need to send the camera to a preset. In fact, the video display object was probably added using the [Programming](#) section from [Streaming Video](#). This video display screen object is used in the programming of the button.

The button needs three commands. The first command is to set the live video object. The second is the preset command. And the third is the warm fuzzy so the user has feedback that the button was pressed.

Wisenet WAVE NVR Panel Guide

Add a button to the screen using the  *Create Button* tool. Open the properties of this new button and switch to the **States** tab. In the action grid, click on the first cell in the **Action** column. The **Actions** dialog opens. Locate the *LiveVideo* command in the **Video** group. Click on it then click . Then drag and drop the video display screen object node from the Project Tree into the **Target** cell. To find this node in the Tree, expand **Screen Control->Screens** and its child nodes until you find the desired video display screen object.

Now, click on the **Action** cell of the second row of the action grid. In the lower right side of the **Actions** dialog is the **Panel** group of actions. Click on *SendCommand* then click . Then drag and drop the preset node in the **Target** cell.

And last but not least, add a third line to play a sound so the user gets feedback to know the button was clicked. A label would also be nice. Click  to save the programming.

Wisenet WAVE NVR Panel Guide

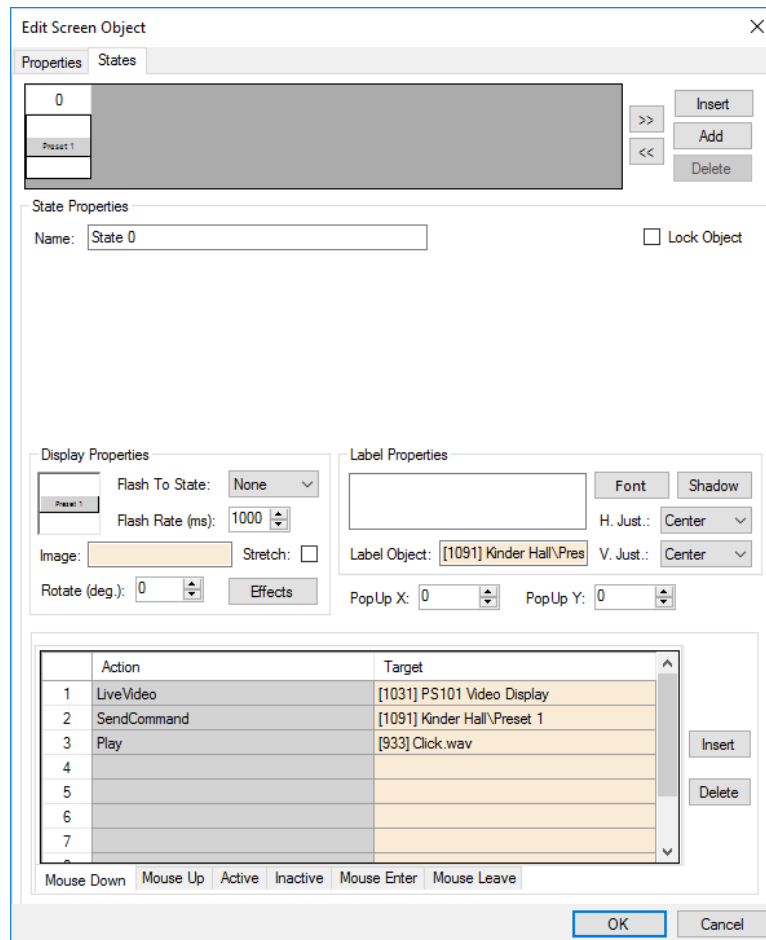


Figure 49 - Programming using Preset node

Now, in  **Live View**, when this button is clicked, the camera will be sent to the **Kinder Hall\Preset 1** preset.

Alarms

At this time the **Alarms** node is a placeholder for future growth. No alarms are reported by Intelli-Site because the Wisenet WAVE NVR implementation does not maintain a connection to the panel, nor does it receive any alarms or events from it.

The alarms for the Wisenet WAVE NVR are located under the **Alarms** node. There is only one, **Panel Status**. This point is high when the panel is offline (assuming the driver is online and the panel is not virtualized). The point is low when the panel is online. Like the other points of the Wisenet WAVE NVR panel, this point is a GenProto node.

Table of Figures

Figure 1 - Select the drivers you want to install	8
Figure 2 -  Hardware Management View	10
Figure 3 - Choose Driver Type Dialog	10
Figure 4 - Wisenet WAVE driver Properties Dialog	11
Figure 5 - Wisenet WAVE driver Icon.....	11
Figure 6 - Add Panel Dialog.....	12
Figure 7 - Wisenet WAVE driver and a new Wisenet WAVE NVR panel	12
Figure 8 - Wisenet WAVE NVR Panel Quick Config Dialog.....	13
Figure 9 - Quick Config after auto detecting the cameras	14
Figure 10 - Quick Config with a new camera added manually	16
Figure 11 - Add Multiple Cameras dialog.....	17
Figure 12 - Quick Config dialog after 	18
Figure 13 - Disabled Wisenet WAVE driver.....	19
Figure 14 - Enabled Wisenet WAVE driver	19
Figure 15- The expanded Counters node	21
Figure 16 - Counter Properties Dialog.....	22
Figure 17 - Video Display Screen Object	23
Figure 18 - Video Display Properties Dialog	23
Figure 19 - Select Cameras dialog	24
Figure 20 - Video Display properties dialog after 	25
Figure 21- The expanded Counters node	26
Figure 22 - Counter Properties Dialog	27

Wisenet WAVE NVR Panel Guide

Figure 23 - Counter Value Node Properties dialog	28
Figure 24 - How many would you like to add? dialog	28
Figure 25 - The New Counter Value Nodes	29
Figure 26 - The properly configured Counter Value Nodes.....	29
Figure 27 - Video Display Screen Object.....	30
Figure 28 - Video Display Properties Dialog	30
Figure 29 - Configurations Table.....	32
Figure 30 - Select Tree Item dialog for Counter Values.....	33
Figure 31 - Configurations Table with the Disconnect definition.....	33
Figure 32 - Configurations Table with Two Lines	34
Figure 33 - Example Configurations Table.....	34
Figure 34 -  Design View fully programmed	35
Figure 35 - Camera Presets nodes	36
Figure 36 - Programming using Preset node.....	37
Figure 37 -  Live View displaying video from Office.....	38
Figure 38 - Wisenet WAVE driver node in the Project Node Tree	39
Figure 39 - Wisenet WAVE driver properties dialog	40
Figure 40 - The Wisenet WAVE NVR panel node in the Project Node Tree	41
Figure 41 - Wisenet WAVE NVR node properties dialog	42
Figure 42 - Wisenet WAVE NVR panel Quick Config dialog.....	43
Figure 43 - Wisenet WAVE NVR panel child nodes	45
Figure 44 - Wisenet WAVE NVR Camera node and its child node	46
Figure 45 - Camera node Properties dialog	46

Wisenet WAVE NVR Panel Guide

Figure 46 - Presets for the Kinder Hall camera	48
Figure 47 - Preset node properties dialog	49
Figure 48 - Example Camera Presets in  Video View	50
Figure 49 - Programming using Preset node.....	52

Revision History

2025-09-29 Initial Creation

2025-11-05 Missing images for some brands