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Documentation

Pelco Video RTU Guide

Version 3.x

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Intelli-Site

Security Management Software
Pelco Video RTU Guide

PC Software RTU Interface Guide
For Windows 7 SP1, 2008 R2 SP1, XP SP3 & 2003 SP2

Version 3.x

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Table of Contents

Section 1 – Introduction

This section describes the following:

- Overview
- Technical Support Assistance

Overview

The Pelco Video RTU (Receiver/Transmitter Unit) is the Intelli-Site software representation of the Pelco Video Recorder (DVR). For purposes of this document, the term RTU is synonymous with a Pelco DVR.

Technical Support Assistance

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Technical Support

Technical support is available via Telephone, Fax or Email. Contact OSSI Technical Support 8:00 AM to 5:00 PM Central Standard time. If calling after hours, please leave a detailed voice mail message, and someone will return your call as soon as possible.

E-Mail: support@ossi-usa.com
Fax: 262-522-1872 (Attention Technical Support)
Local: 262-522-1870

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 Menu Application Bar.
- Product serial number 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?

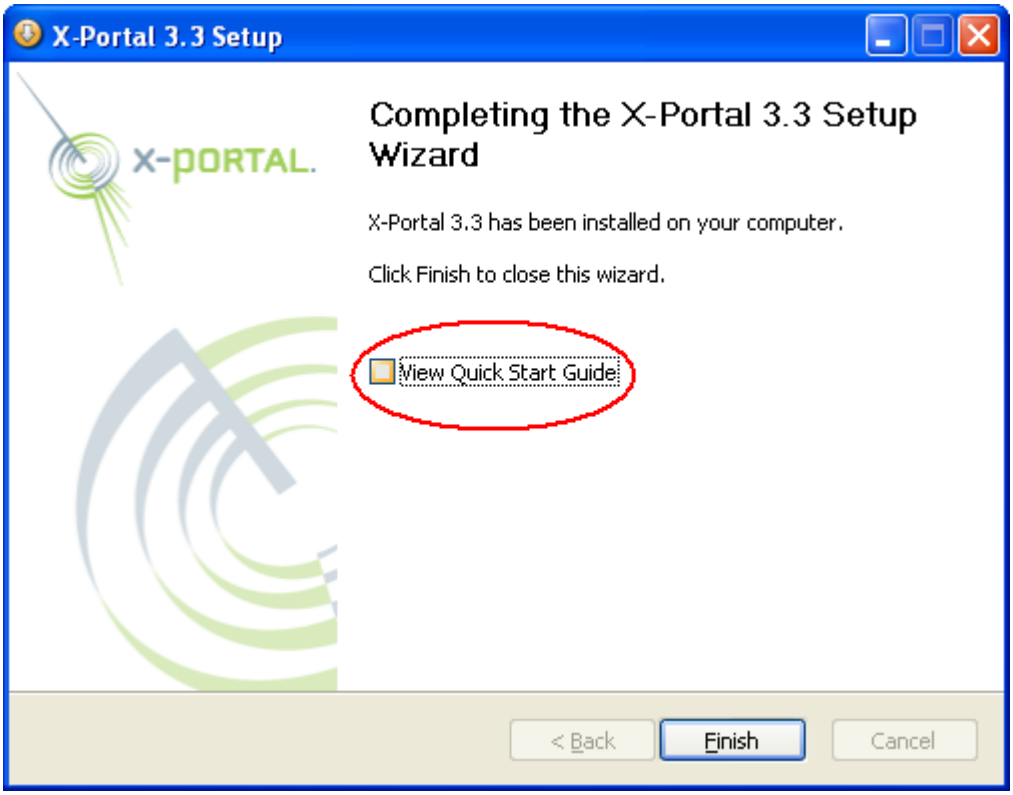
Important Note on Workstation Installation

When installing the Intelli-Site software on a remote Workstation, make sure to install the Pelco driver when prompted to install Drivers 'Yes/No' during the install. This is essential, since all video functions are Workstation based, so the Pelco files need to be on the remote Workstations as well as the server.

The Microsoft .NET Framework 2.0 SP2 should be installed either before or after installing Intelli-Site. When the Pelco driver installer starts, be sure to select leave all the default settings. Just select 'Next', 'Ok'.

If the .NET framework is not installed, you will be warned, and should install it before continuing. The .NET framework 2.0 SP2 must be installed before using the Pelco driver.

During the installation be sure to uncheck the "Run at startup" option, and at the end uncheck the "View Quick Start Guide" box:



Important Note on DX8x00 Connection

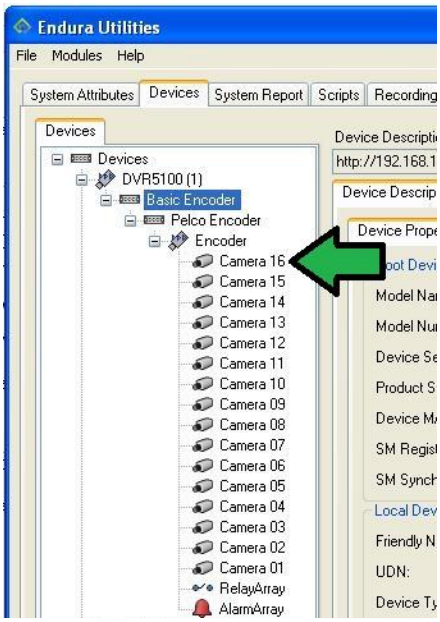
Each DX8x00 unit has a limit of 5 concurrent connections. The 6th attempt will fail and keep failing until one of the existing 5 connected Workstations has logged off.

Important Note on DX8x00 Playback

Each DX8x00 unit can only have one search/playback session running at a time. A secondary search will fail. Searches are performed in the Pelco DVR Mode.

Important Note for Endura Users

For Endura, the Camera Names under the RTU have to match their 'Friendly Name' as defined in the Endura System. These names can be found using a tool such as 'Endura Utilities', 'Remote Client' or similar. Consult the system installer for this information. (See screenshot below for example utlity showing Endura-friendly names)

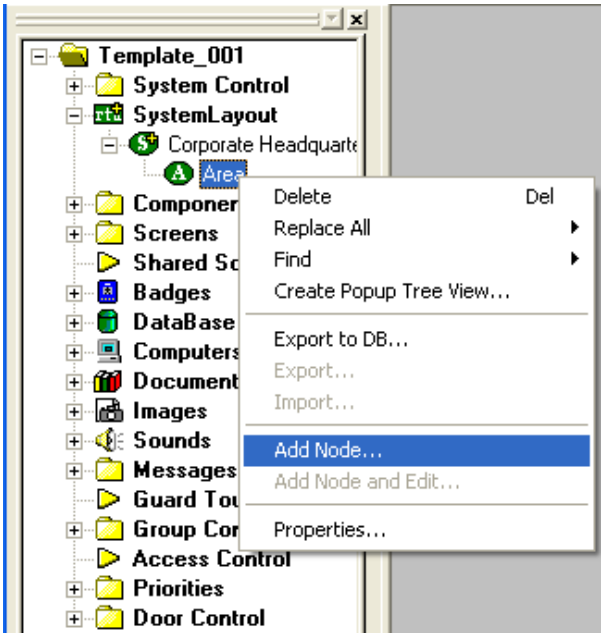


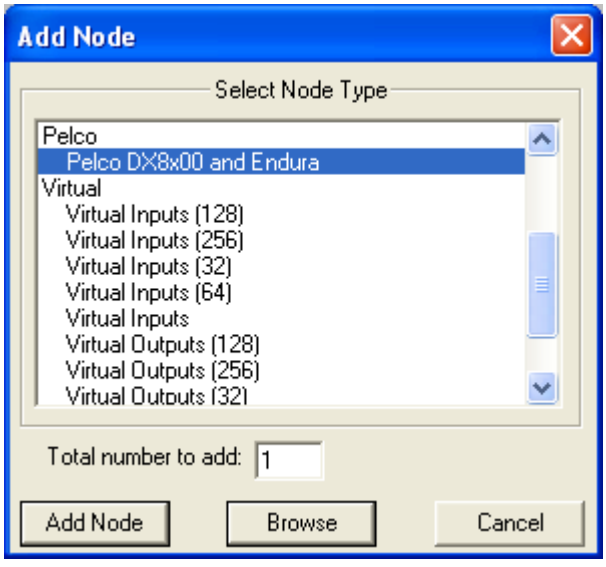
Section 1 - Pelco DVR Setup (Design Mode)

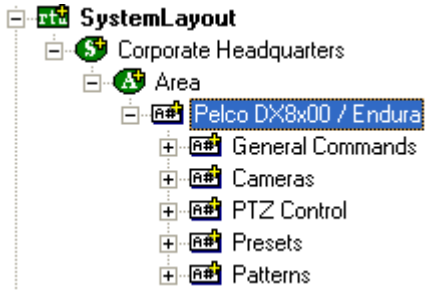
This section discusses the setup of Pelco DVRs in the project in Graphic Design mode.

Adding DVR Nodes

Select 'Add Node…' on an 'Area' node. Then select the 'Pelco DX8x00 and Endura' entry:

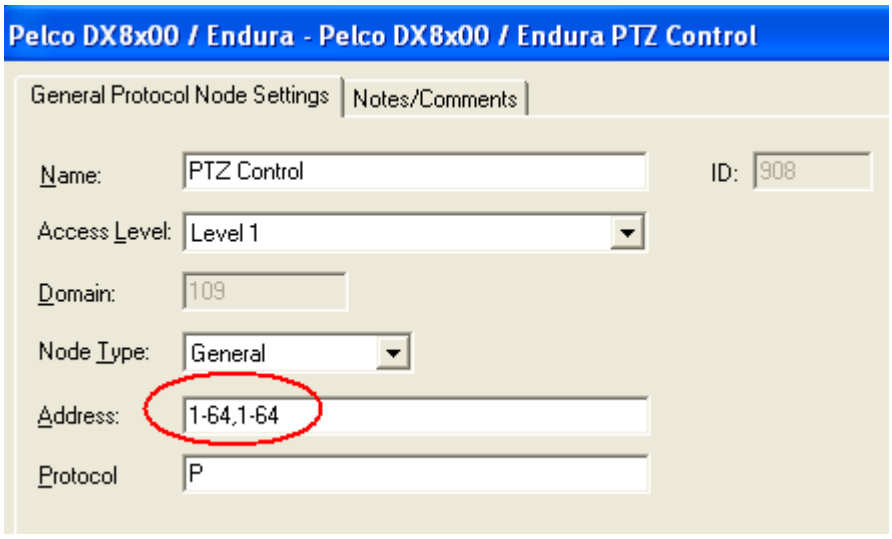






Layout of the DVR Node

1. 'General Commands'- Contains a single command, 'Disconnect'. This command is used to stop video currently displayed.
2. 'Cameras'- Contains all the cameras available for viewing from this DVR. Under each camera are 3 alarm nodes:
3. 'PTZ Control'- Contains all the Pan, Tilt, Zoom, Focus, Iris and PTZ Speed commands. In the properties of the 'PTZ Control' node, the Address field has special meaning:



These values represent the Pan and Tilt speed ranges. Modify as needed:

a. Tilt speeds- The value range on Endura systems represents degrees per second and varies based on camera type. Refer to your camera documentation for specific values. For DX8x00 systems, the value must be between 1 (slowest) and 64 (fastest).

b. Pan speeds- The value range on Endura systems represents degrees per second and varies based on camera type. Refer to your camera documentation for specific values. On version 1.2 DX8x00 systems, the value must be between 0 (slowest) and 30 (fastest). On version 2.0 DX8x00 systems, the values must be between 1 and 64.

4. 'Presets'- These nodes can be used as commands to move a controllable (PTZ) camera to preset positions.

5. 'Patterns'- These nodes can be used to run pre-configured patterns (e.g. tours) on controllable (PTZ) cameras.

NOTE: A DVR's node name may not contain an "&" (ampersand) character, in order for live video and playback to function properly.

Configuring the DVR Node

After a DVR node has been added it needs to be configured. This is accomplished by Rick-Clicking and editing the properties of the DVR node:

1. 'General Protocol Node Setting' Tab allows you to adjust the following properties:

   a. Change the name of the DVR.

   b. Select the Access Level.

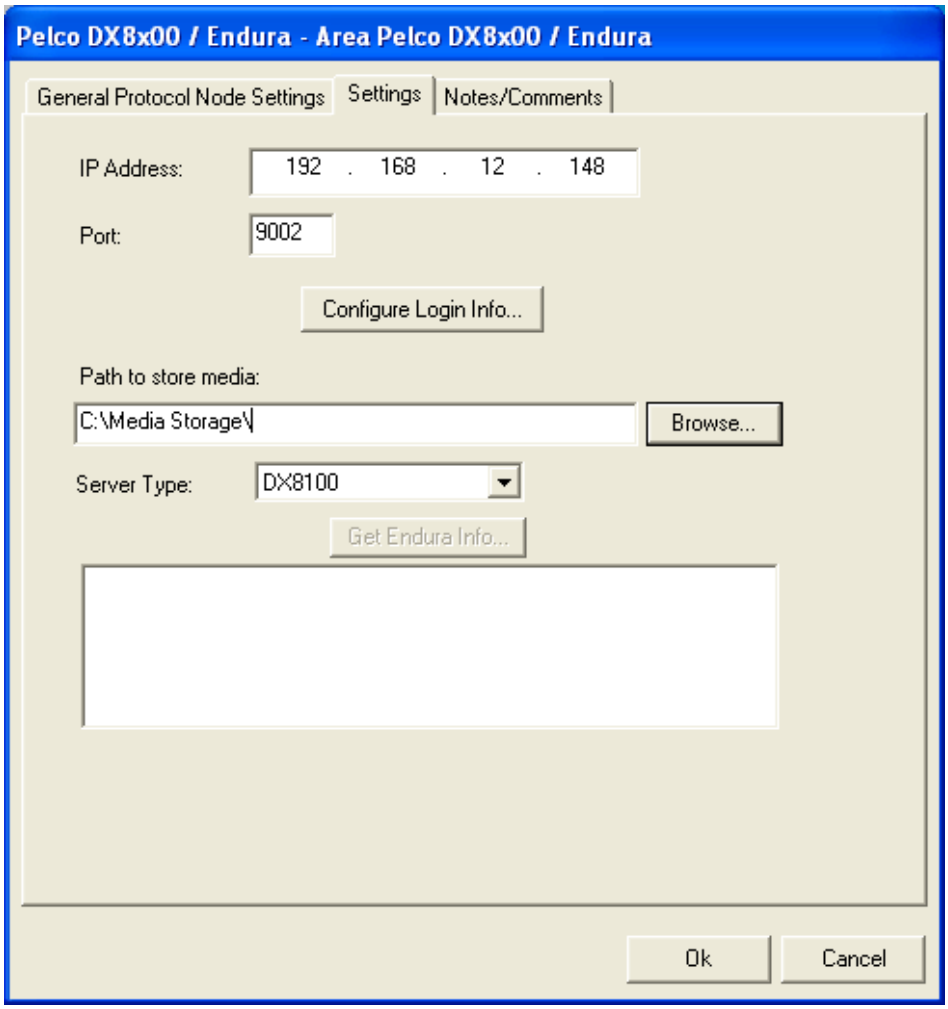
   c. The Domain is system-selected and fixed.

   d. The Node Type is General – Do not change.

e. The Address field - Do not change.

f. The Protocol field - Do not change.

2. 'Settings' Tab is where the settings for the DVR unit are specified:



a. IP Address: enter the IP address of the DVR.

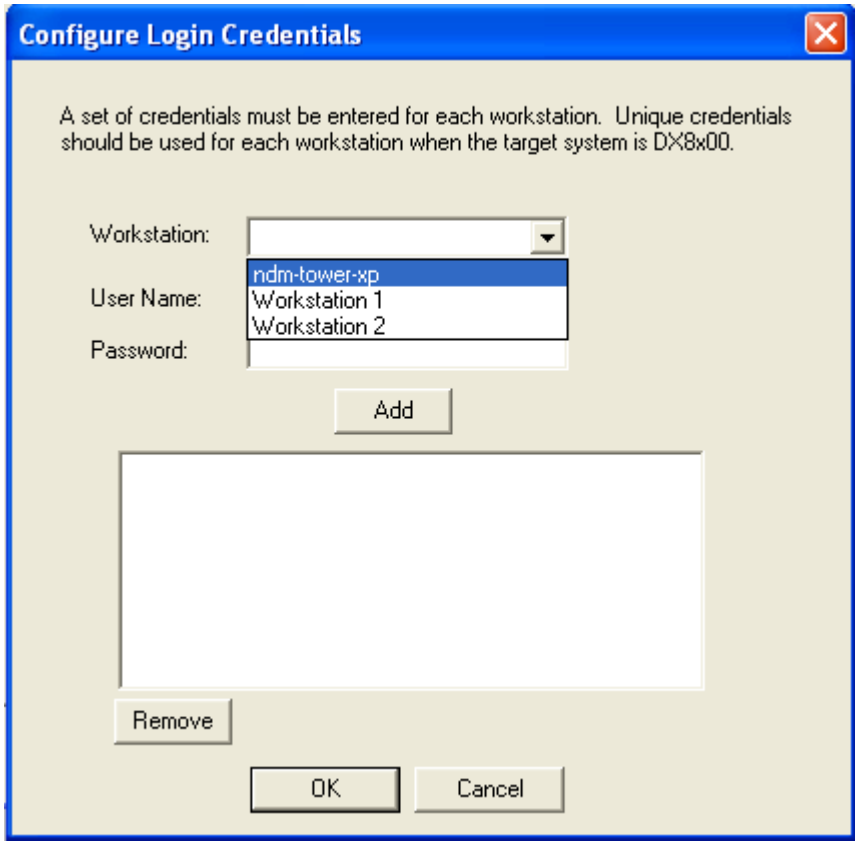
b. Port: enter the network port used

c. Path to store media- This is the folder where both snapshots and recordings taken of live and recorded video will be stored.

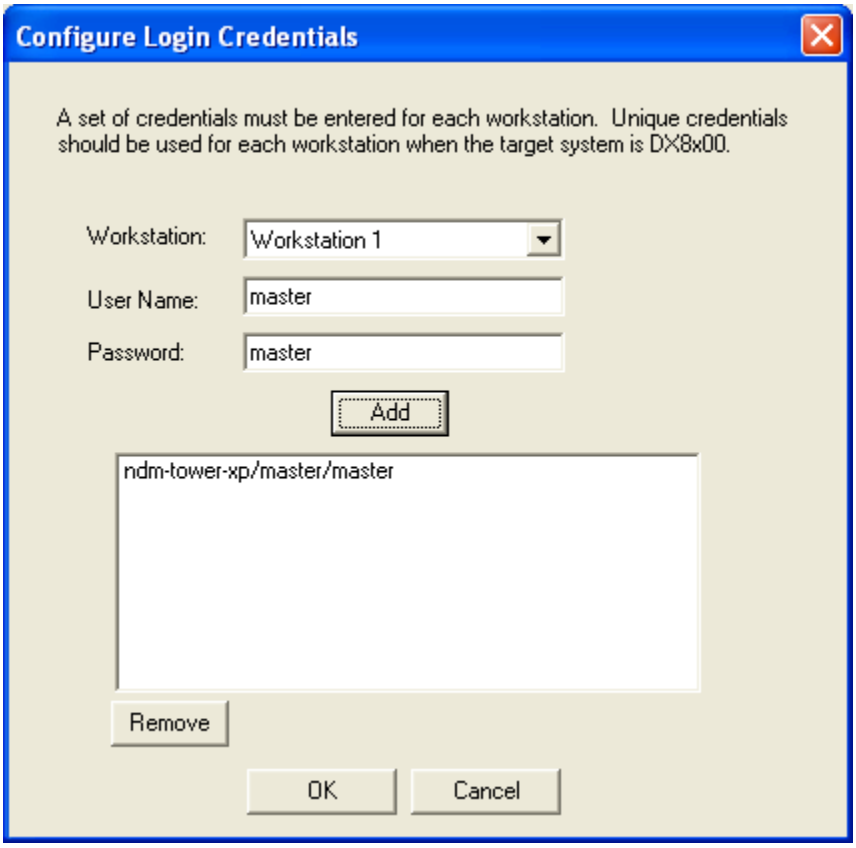
d. Server Type: select the device type; options include ‘DX8000’, ‘DX8100’ and ‘Endura’.

e. Get Endura Info: This option and the list below are enabled when the ‘Server Type’ is ‘Endura’. This button should be selected so that the system can create and store files locally (which help the Endura system identify the computer). When this button is selected, the list will box will display the text ‘"Please wait, retrieving info...". When this process is complete, the list box will display the text ‘"Info retrieval Complete.”.

f. Configure Login Info- For DX8x00 systems, a particular set of credentials can only be logged in once at a time. In other words, two users with the same login credentials cannot be logged in at the same time. For this reason, each Intelli-Site workstation must have its own login:



Select each workstation in the 'Workstation' drop-down list. For each workstation type in a user/password which has previously been setup in the target system (DX8x00 or Endura). Click the 'Add' button to save your entry:



Complete this process until all workstations have been added to the list.

Programming Examples for Run Mode

After a DVR node has been configured in the design tree you can use elements of the DVR node for a variety of Run Mode applications. The following Section details some examples of DVR applications that can be programmed for Run Mode:

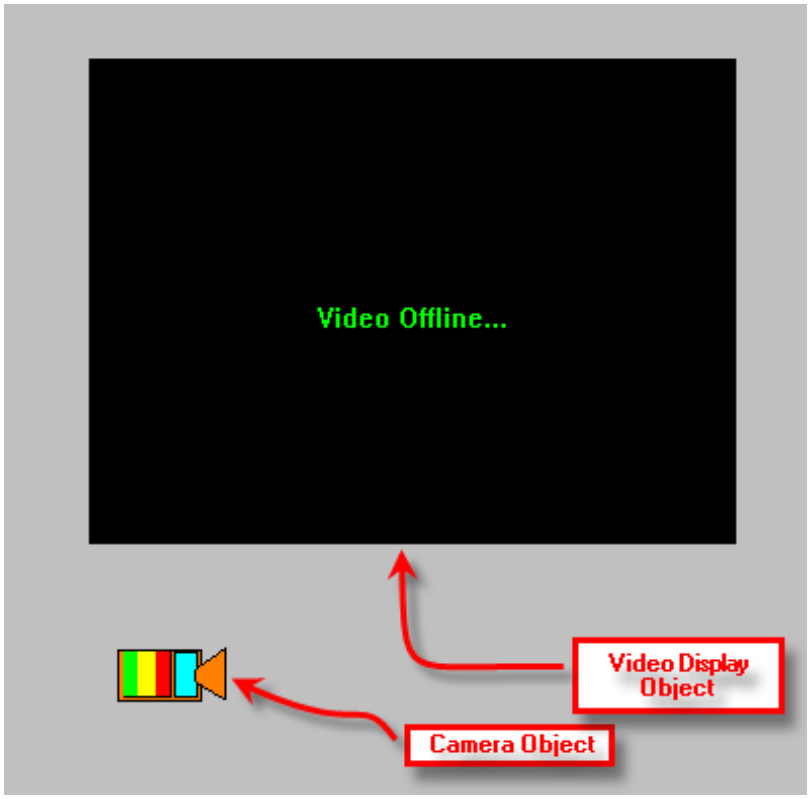
1. **Live Video Display and Control Programming Example**

   The following programming example will detail the steps necessary to create a video display object and various controls that will allow video switching on a Run Mode Screen.

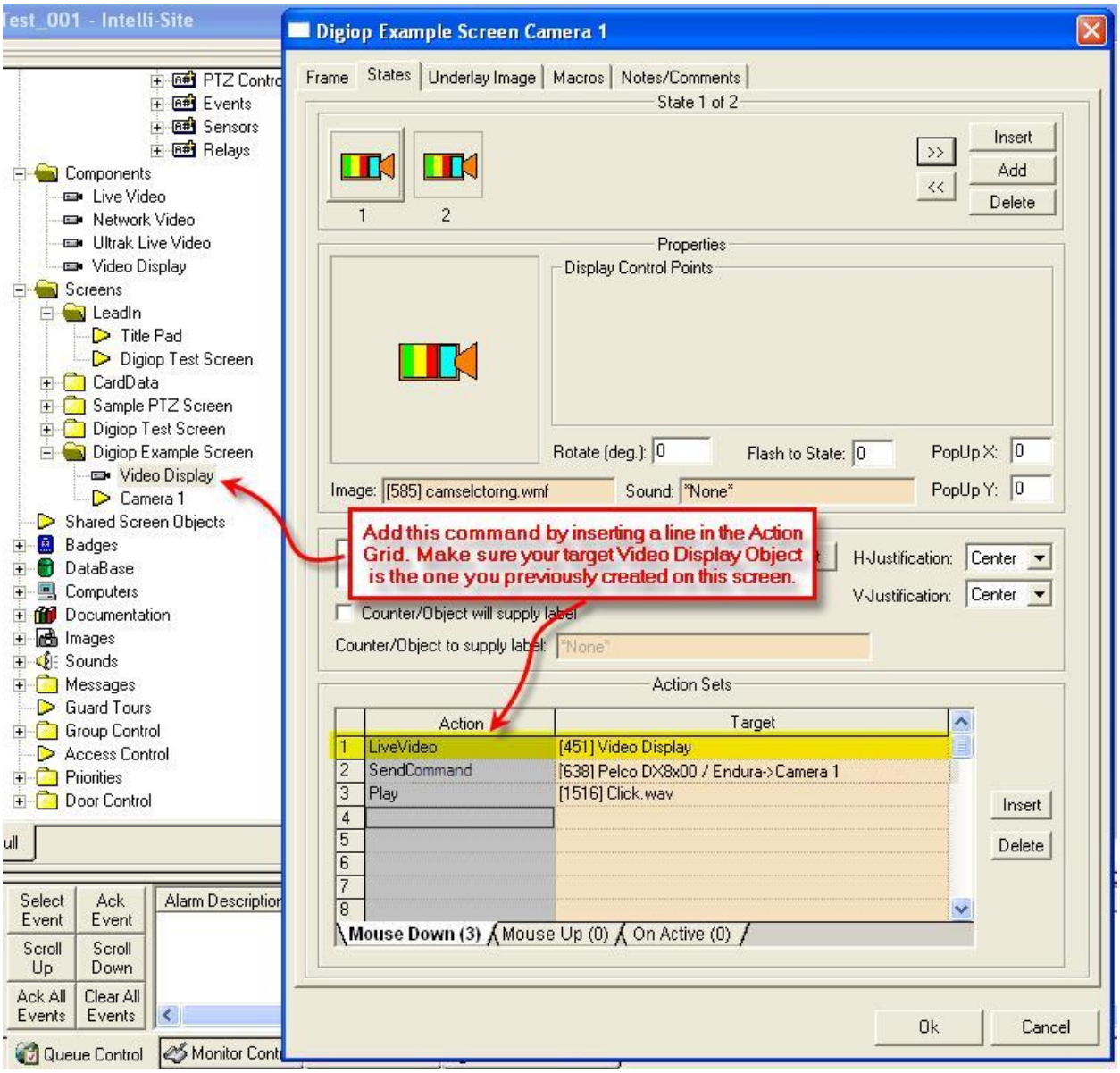
   Step 1 – In Design Mode, Drag-and-Drop a Video Display object, from the Components Node in the Tree, onto the Screen. The Video Display object is always used as the display target for Bosch video. There is no limit to the number of Video Display objects that can be on any one screen. When dropped, the Video Display Object will automatically size to 320X240 but can be resized to fit your needs.

   Step 2 – Drag-and-Drop a Camera from the Change Cameras subnode of the DVR onto the tree. This will automatically create a camera screen object. Use the Default settings when prompted by the wizard.

At this point your screen should look something like this:



Step 3 - In order to send the video, called by the Camera object, to the Video Display object created in Step 1, you will have to modify the properties of the Camera Object by adding a LiveVideo command before the SendCommand for the Camera as follows:



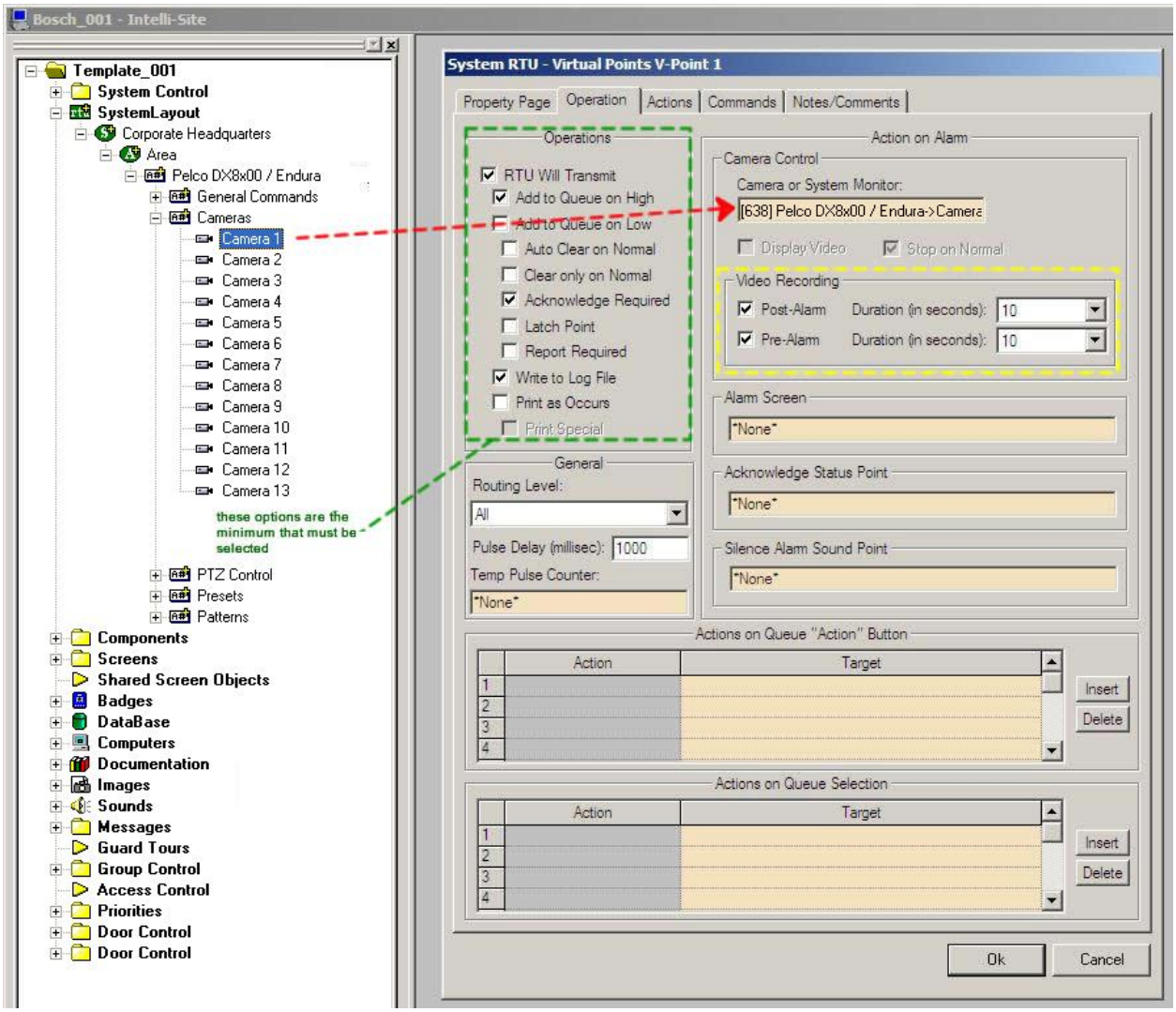
Note: If a camera is PTZ capable, clicking on a region in the video display object will move the camera

2. Alarm-Related DVR Video-On-Demand Programming Example

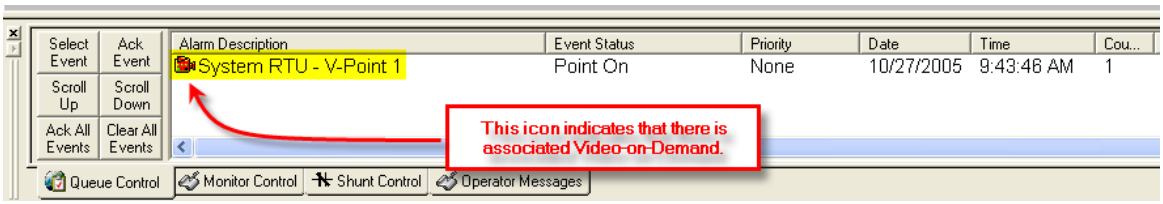
The following example will detail the steps necessary to program an alarm-point relationship to a Camera object for Video-on-Demand functionality.

When an alarm point is activated, pre-and post-alarm recorded video is "tagged" for automated recall during alarm acknowledgement.

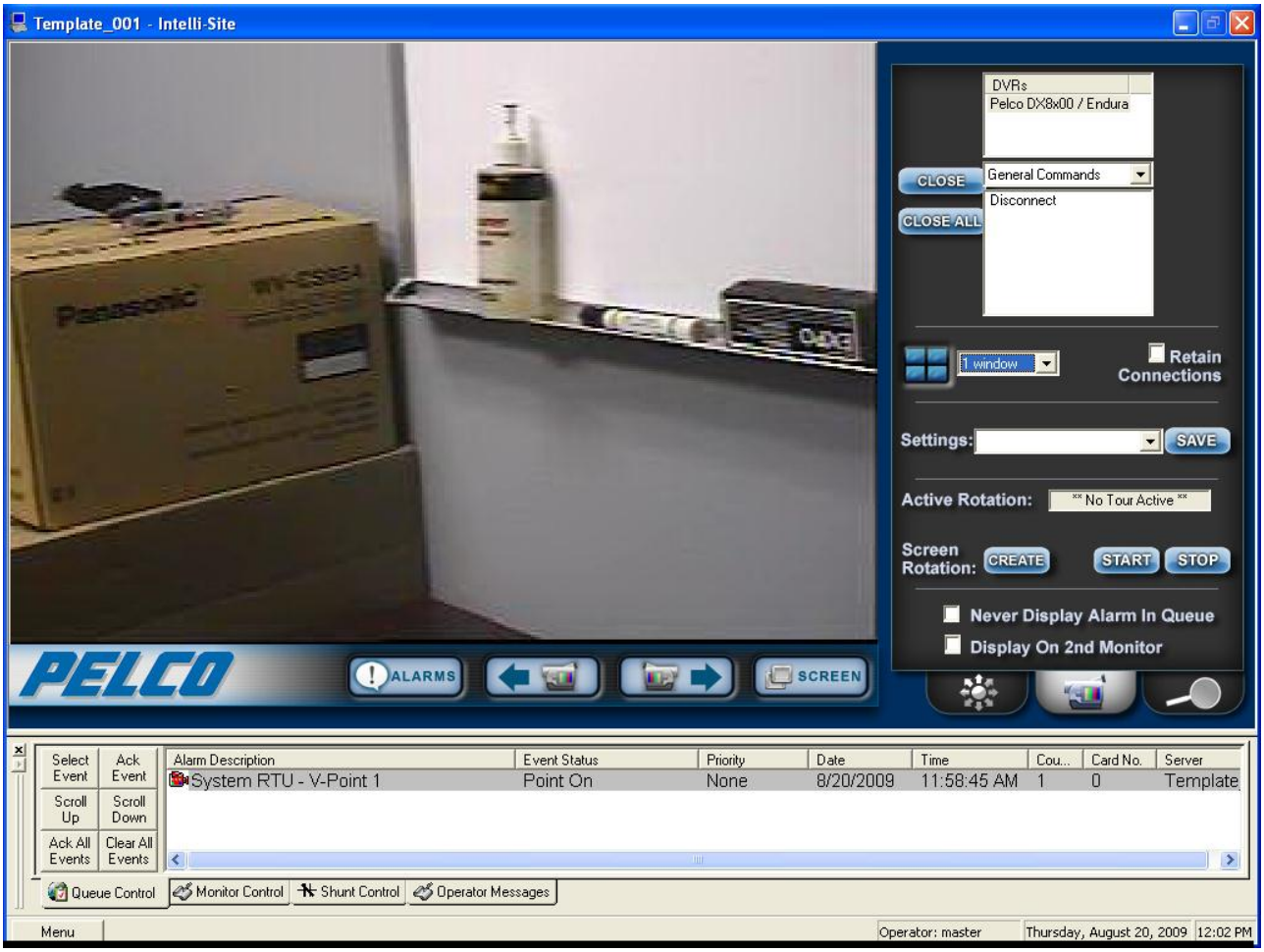
Step 1 – Using any I/O point in the tree (in this case we are using a Virtual Point) you can set the properties of the I/O point to enable pre- or post-alarm recording (or both) as shown below:



Step 2 – Upon I/O point activation the alarm will appear in the Queue with a video-associated icon as shown below:



Step 3 – Double-Left-Click on the icon will automatically switch to the Pelco DVR Mode and replay the pre-and-post alarm video from the associated channel:

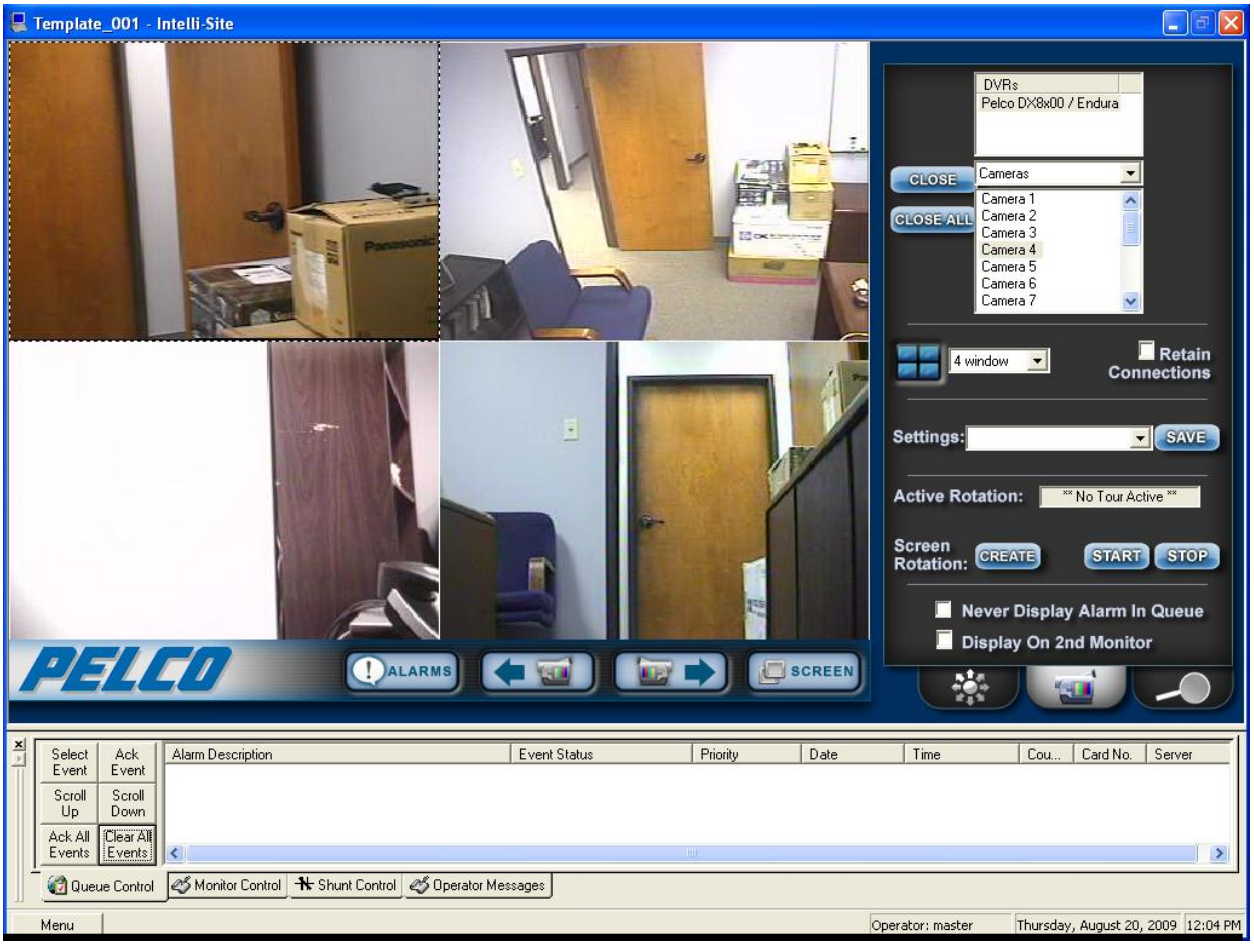


Section 2 –Pelco DVR Mode

This section discusses the use of the Pelco DVR Multi View Mode.

Using the DVR Mode

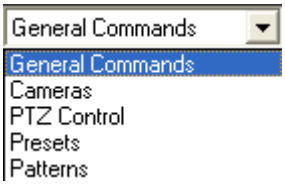
Click on the  icon on the Application Menu bar in order to switch to the DVR Mode.



1. General Settings Tab  allows you to set display, control, and camera tour parameters.

a. DVRs – This window will list all of the DVR nodes in the Design Mode tree. You can display all available channels for a specific DVR by Dragging and Dropping the selected DVR on to the Video Display Area.

b. Commands Combo Box – select commands to be applied to specific display areas in the categories of General Commands, Change Camera Commands, and Camera PTZ Commands. First Select the command desired, then Drag-and-Drop the command on to the specific camera view in the Video Display Area.



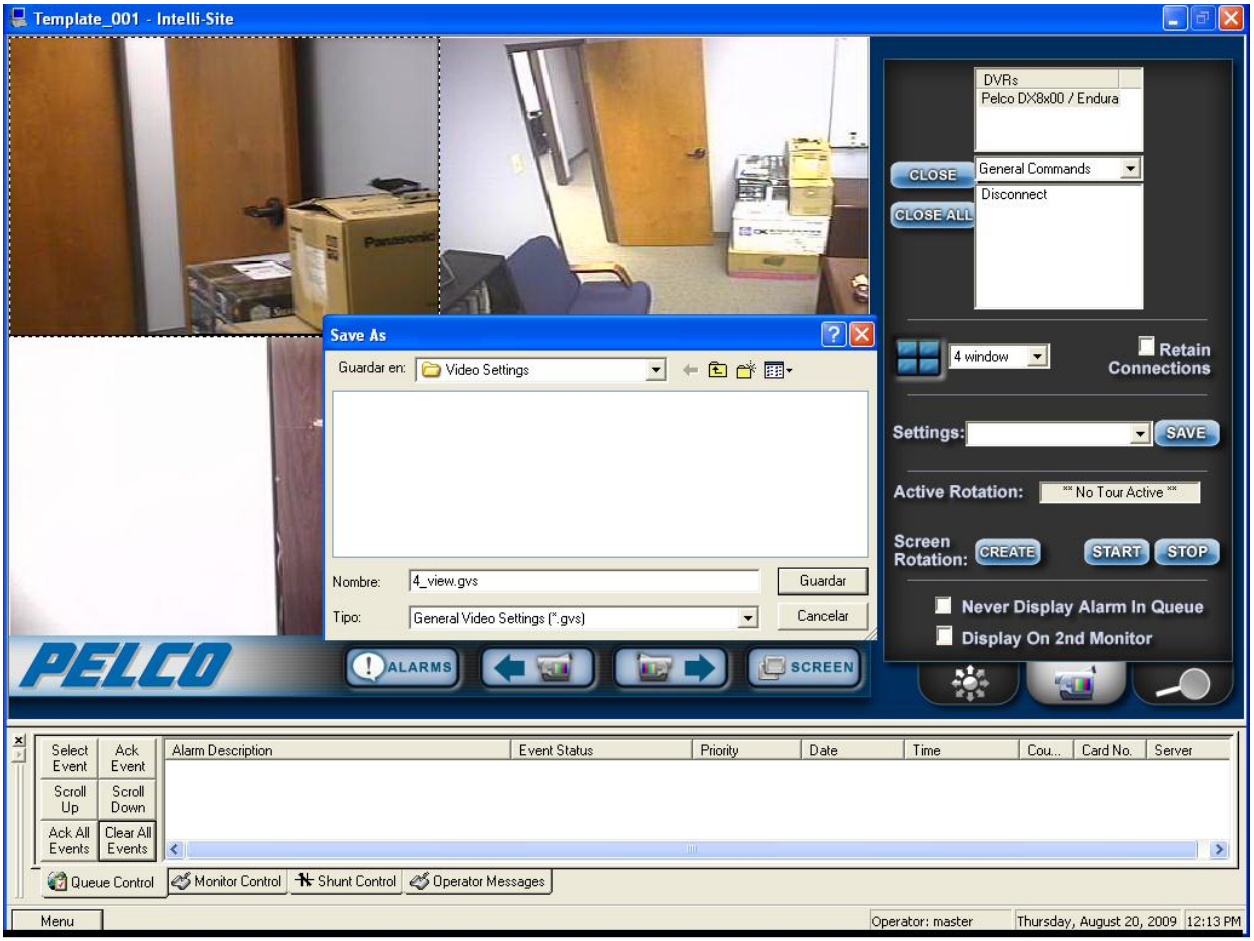
To switch cameras, select the 'Cameras' item in the listbox. Then, either double-click or drag-and-drop the camera item onto the video display area (on the left).

c. Screen Division – The Screen Division window allows you to select the number, and layout, of video display windows in the Video Display Area.

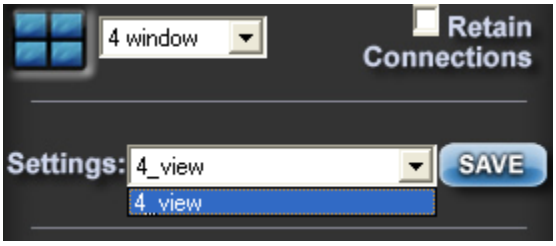
   i. Screen Division Combo Box – allows you to select from 1, 4, 8, 9, 10, 13, 16, 25 or 36 windows for the Video Display Area.

   ii. Retain Connections – checking this box will retain currently-connected video channels when you switch from one division settings to another.

iii. Settings Save – allows you to set up a custom display and save the settings for the custom setup for later recall. An application example of this feature would be to create a display that shows specific video channels from a number of different DVRs that are located in different buildings in the network – say; all lobby cameras from ten-different buildings.



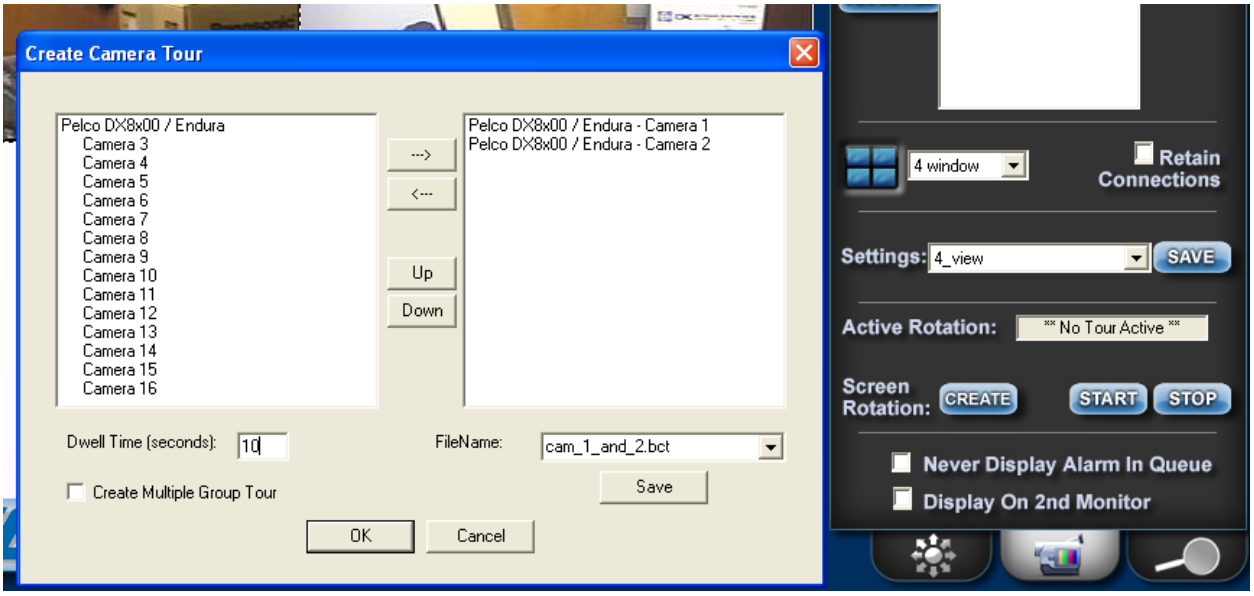
Once these settings are saved they can be instantly retrieved from the Settings Combo-Box.



d. Active Rotation (Video Tours) – This feature allows you to create and run sequential video tours consisting of any number of cameras or even groups of tours consisting of groups of camera groups.

   i. Create a Camera Tour – Select the 

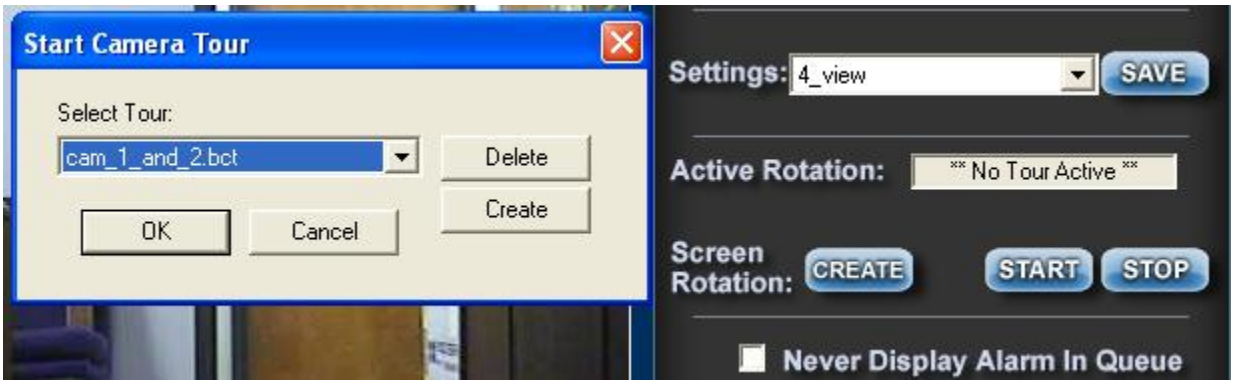
button to open the Create Camera Tour dialog. All available cameras will be listed in the left window. Simply use the Add or Delete arrows to add the desired cameras to your tour list in the right window. Next enter a Dwell Time – this is the amount of time a camera will display before switching to the next in the list. Finally, enter a FileName and Select the Save Button. Select the OK Button when finished.



ii. Create a Group Tour – Select the Create Multiple Tour Group checkbox. When selected, the left window will display all tours previously saved. Simply select the tours you wish to include in the Multiple Group Tour, give it a filename, and hit the Save Button.

iii. Running a Tour or Multiple Tour Group – Start the tour with the Start Button 

and the Start Camera Tour dialog will open. Select the tour you wish to run from the Combo-Box. To stop the tour, select the Stop Button. 



e. Additional settings – Select the Never Display Alarm Queue if you do not wish to see DVR-originated alarms in the alarm queue. Select Display on 2nd Monitor if you wish to display the DVR Mode on the 2nd Monitor in a dual-monitor workstation.

2. PTZ Camera Control Tab  – Allows you to control PTZ functionality for a specific, PTZ-equipped camera.

   a. Pan/Tilt arrows-  Clicking and holding the left-mouse button on an arrow will move the camera in the corresponding direction. Releasing the mouse button will stop the movement.

b. PTZ Speed Increase  and Decrease.  This adjusts the speed for pan and tilt commands.

c. Presets- To move a camera to a preset position, select the preset in the 'PRESETS' combobox. Select 'SET' to create the preset and 'CLEAR' to delete the preset.

d. Patterns- Select a Pattern from the combobox to invoke it. Select the record  button to start recording the Pattern and select the stop  button to complete the recording.

3. Playback Tab  - Allows you to playback recorded video and audio.

a. 'Current DVR'- This control displays the current DVR to be used for search and playback of recorded video.

b. 'Camera'- Select the camera against which recorded video is to be searched.

c. Begin Time/End Time- Select the time range around which to view recorded video.

d. 'Search'- Select this button to begin the retrieval and display of recorded video.

e. 'Snapshot'-  Selecting this button will save the current frame of video to a JPG format file in the folder specified in the 'Path to store media' option on the DVR RTU node. For DX8x00 systems, this option is only available during playback.

f. 'Record'-  Select this button to record to an AVI file in the folder specified in the 'Path to store media' option on the DVR RTU node. The '# of Frames' field must contain a value which is used to determine the length of the saved video clip. For DX8x00 systems, this option is only available during playback.

g. 'Media Folder'-  Select this button to open a Windows Explorer window displaying the media folder (with saved images and video clips).

h. Playback buttons (from left to right): Rewind, step 1 frame back, stop, play, pause, step 1 frame forward and fast forward.

Using the Multi View Mode (Video Display Area)

The main window (Video Display Area) of multi view consists of a viewing area and four control buttons.

If you double-click on any of the individual video display views, the view will expand to full size. To return, simply double-click on the full-size view.

Main Video Controls

 **Previous Camera**: Allows user to scroll backwards through available channels.

 **Next Camera**: Allows user to scroll forward through available channels.

Full Screen: This feature will expand the multi channel view to full screen. Just hit 'Escape' key to return.

Alarm Events: This feature brings up a dialog that can be used to search for alarm events that are associated with cameras.