PELCO

by Schneider Electric

INSTALLATION

# Digital Sentry® DS NVs




C4660M-B (5/11)

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# Installing the Digital Sentry Software

This document describes the installation, setup, and configuration of the Digital Sentry® software using the DS-NVs Setup Wizard.

**NOTE:** Refer to the DS ControlPoint Operation manual for complete information on DS ControlPoint.

## PREPARING TO INSTALL DS-NVS

1. Place the DS-NVs disc into the DVD drive of the PC. The DS-NVs Launcher dialog box appears.
2. Review the Minimum and Recommended Requirements completely before continuing.
3. Click the Install Software button.




**Figure 1.** DS-NVs Launcher Dialog Box

4. Read the details of the DS-NVs software dialog box.
5. Click the Launch Installer button.

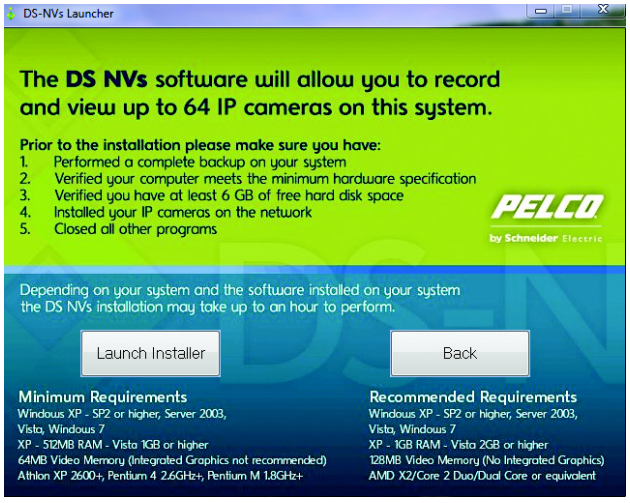



**Figure 2.** DS-NVs Software Dialog Box

6. Follow the prompts on the screen to install the application.

7. When the Custom Setup dialog box appears, select "Recording and Viewing Software" suite: Server/Video Acquisition Unit [VAU], DS Admin, and DS ControlPoint (refer to Figure 3).

   **NOTE:** If you select "Recording Software Only," recording software will be the only software installed. If you select "Remote Viewing Software Only (DS ControlPoint)," DS ControlPoint will be the only software installed.

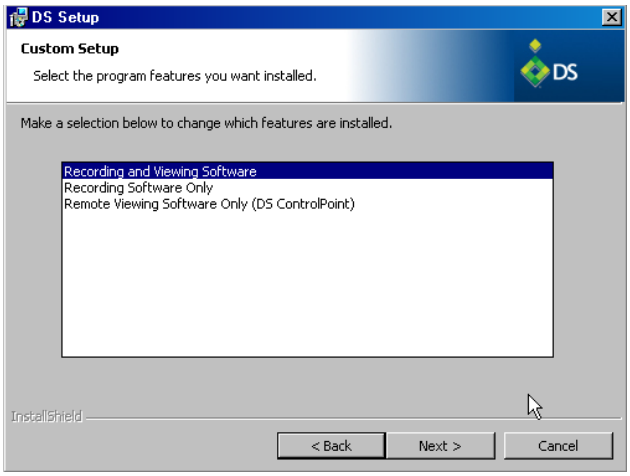



**Figure 3.** Custom Setup Dialog Box

8. Continue through the remaining installation screens, and then click the Finish button to complete the installation.

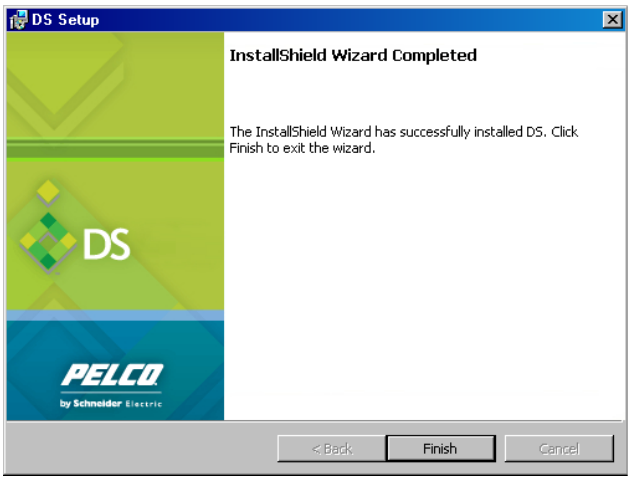



**Figure 4.** InstallShield Wizard Completed Dialog Box

# Configuring the Digital Sentry Software

Once the DS-NVs software is installed, the DS Quick Setup Wizard dialog box appears to help you configure your Digital Sentry software.

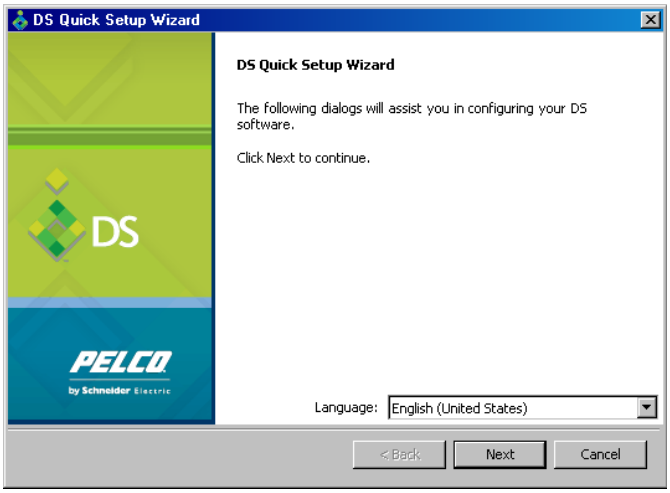



**Figure 5.** DS Quick Setup Wizard Dialog Box

When you click the Next button, the software begins configuring your PC into a VAU (standalone) recording solution. The wizard searches for an existing system. This process determines whether or not your PC is configured for a VAU.

The DS Quick Setup wizard has two options for installing software and one option to add, remove, and configure IP cameras only. You can also change the Service User Password, configure SQL ports, or configure Windows Authentication in the Setup dialog box.

1. Select one of the following options for either a new installation, reinstallation, or to add/remove IP cameras.

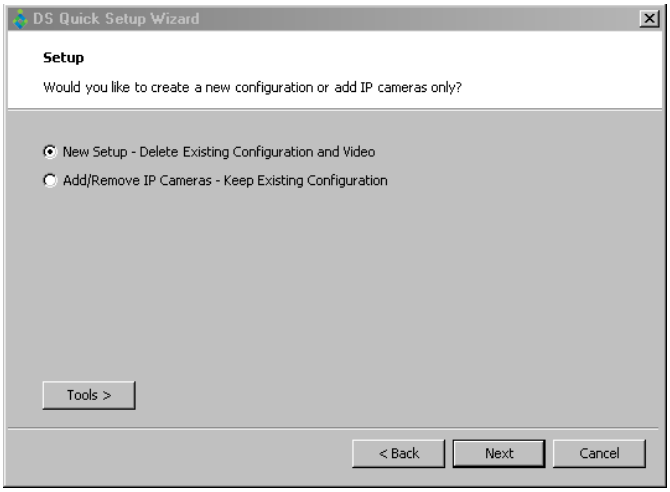



**Figure 6.** Configuring Your Setup

**NOTE:** The Setup dialog box will appear during software reinstallation or during the addition or removal of IP Cameras only.

- **Installing new software:** Click the Next button in the DS QuickSetup Wizard dialog box. The wizard takes you to the Computer Settings dialog box (refer to Figure 14 on page 10) to continue with the next step in the software installation.
- **Reinstalling the software:** Click the Next button in the DS QuickSetup Wizard dialog box. The wizard takes you to the Setup dialog box (refer to Figure 6). Select "New Setup – Delete Existing Configuration and Video." When you select this option, all existing configurations and recorded video will be deleted. When you click the Next button, the "Are you sure?" dialog box appears (refer to Figure 7 on page 7). Click the Yes button, and then click the Next button to continue with the new setup.

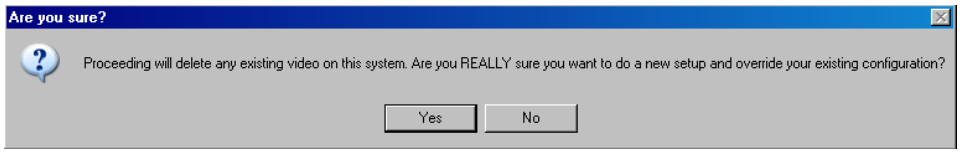



**Figure 7.** "Are you sure?" Dialog Box

- **Adding/removing (and configuring) IP cameras only:** Click the Next button in the DS QuickSetup Wizard dialog box. The wizard takes you to the Setup dialog box (refer to Figure 6 on page 6). Select Add/Remove IP Cameras – Keep Existing Configuration. If you select this option, existing configurations and recorded video will not be deleted. Click the Next button in the Setup dialog box to go to the IP Cameras dialog box.

2. *(Optional if reinstalling the software or when adding, removing, or configuring IP cameras only.)* Configure Windows Authentication (LDAP Support) the Tools button and
   a. Click the Tools button.
   b. Select Windows Authentication Setup from the tools list. The ConnectionInfo and DSI-ADConfig dialog boxes appear.

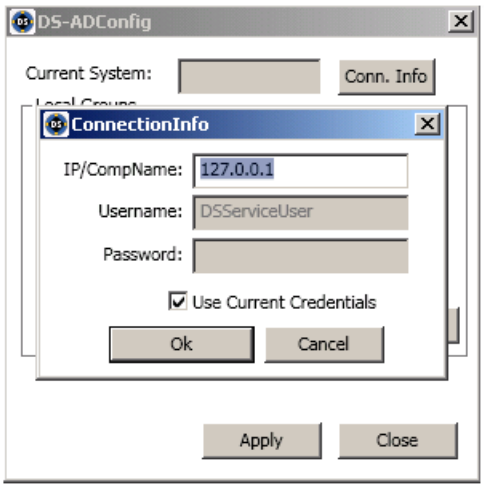



**Figure 8.** ConnectionInfo Dialog Box

   c. Click the OK button to use your current credentials. The Connection Info dialog closes and the DSI-ADConfig dialog box remains (refer to Figure 9 on page 7).

      After you click the OK button, you will be connected to the system. The DIS-ADConfig dialog box will refresh to show any groups that are already configured. It will be empty for an initial configuration.




**Figure 9.** DS-ADConfig Dialog Box

d. Click the Add button. The GroupEntry dialog box appears (refer to Figure 10 on page 8). From this dialog box, you can configure access rights and create custom group names and default groups. Refer to the DS ControlPoint Operation manual for more information on LDAP support.

e. For a new group, type a group name and description, and then select the roles for the new group or select all.

**NOTE:** You can also change the configuration for an existing group through the GroupEntry dialog box.

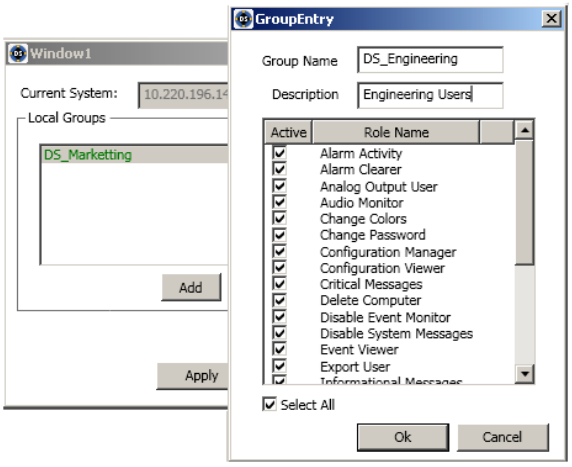



**Figure 10.** Group Entry Dialog Box

f. Once you have created or edited a group, click the OK button. A dialog box appears showing a list of the local groups.

**NOTE:** Once you have finished editing your system, you can click the "Conn. Info" button to modify your IP address and refresh the new system.




**Figure 11.** Local Groups Listed Showing Color Scheme

g. Verify the changes being made using the following color scheme as a guide:

- **Red:** Indicates an item to be removed.
- **Blue:** Indicates an item to be modified.
- **Green:** Indicates an item to be added.
- **Black:** Indicates an item to remain unchanged.

h. Click the Apply button to add the new group to the list. The DS-ADConfig dialog box closes and you are returned to the Setup dialog box (refer to Figure 6 on page 6).

3. *(Optional if reinstalling the software or when adding, removing, or configuring IP cameras only.)* Change the user service password to update your Windows user account.
   a. Click the Tools button.
   b. Select Change User Service Password from the Tools list. The Password Change Utility dialog box appears(refer to Figure 12).
   c. Type the password, and then confirm the password.
   d. Click the Update button. The Password Change Utility dialog box closes and you are returned to the Setup dialog box (refer to Figure 6 on page 6).

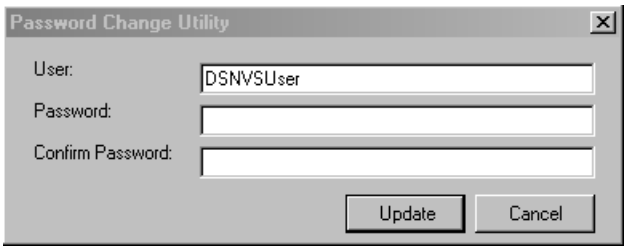



**Figure 12.** Password Change Utility Dialog Box

4. *(Optional if reinstalling the software or when adding, removing, or configuring IP cameras only.)* Configure the SQL ports.
   a. Click the Tools button.
   b. Select Configure SQL Ports from the Tools list. The Configure SQL ports dialog box appears (refer to Figure 13 on page 9).

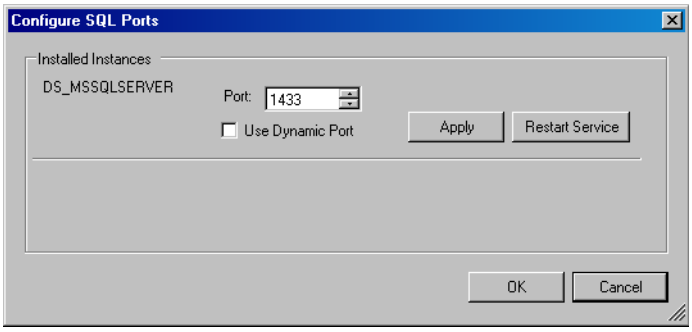



**Figure 13.** Configure SQL Ports Dialog Box

   c. Select the port you want to change from the drop-down box.
   d. Click the Apply button.
   e. Click the Restart Service button.
   f. Click the OK button. The SQL port is configured dialog box closes and you are returned to the Setup dialog box (refer to Figure 6 on page 6).

5. *(For new installations and reinstallations only.)* Configure the computer settings.
   a. Click the Next button. The Computer Settings dialog box appears (refer to Figure 14). The Computer Settings dialog box allows you to change the computer name and the IP address. By default, the system locates your Dynamic Host Configuration Protocol (DHCP) address and lists the loopback IP address
   b. Type a computer name and IP address, if necessary.

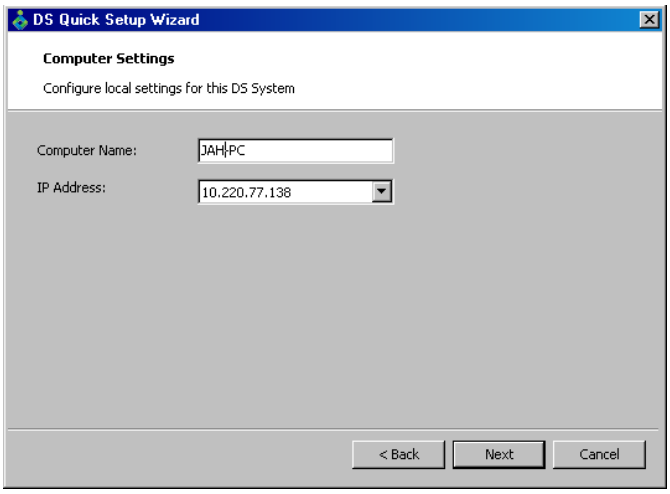



**Figure 14.** Configuring Local Settings for the DS System

6. *(For new installations and reinstallations only.)* Click the Next button. The Storage Locations dialog box appears (refer to Figure 15 on page 10).

   Storage locations represent the drives to which the video will be written. The check box for drive C is cleared by default; all other internal and external drives appear in the list and are enabled (selected) by default. To disable a drive, clear the check box for that drive.

   **NOTE:** If you are using an external drive, it is recommended that the device be 5 GB or greater.

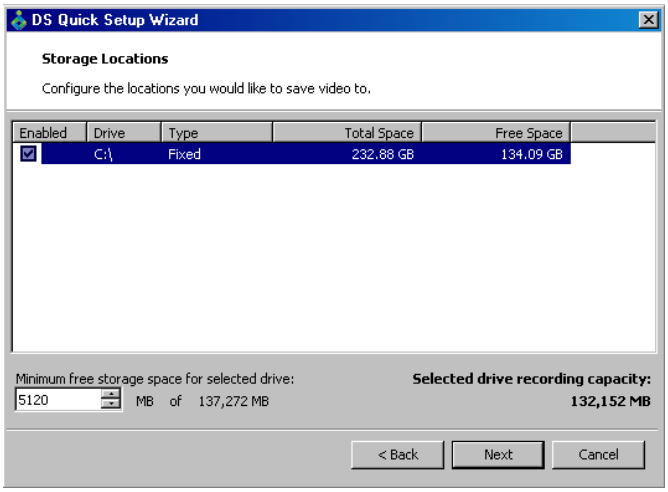



**Figure 15.** Configuring Storage Locations

7. Click the Next button. The IP Cameras dialog box appears (refer to Figure 16).

**NOTE:** When any IP camera is selected, an MJPEG stream appears in the upper-right area of the IP Cameras dialog box.

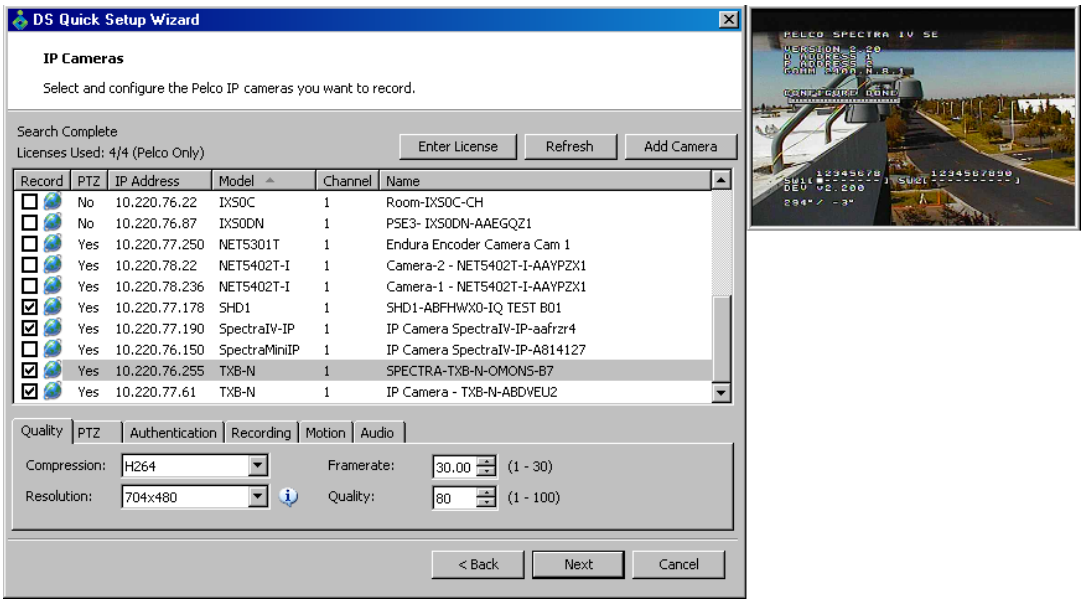



**Figure 16.** IP Cameras Dialog Box

DS-NVs software is free and includes four Pelco IP camera licenses per server. Additional camera licenses can be purchased for Pelco and third-party cameras.

The IP Cameras dialog box contains the following cameras tabs (refer to Figure 17 on page 11):

- **Enter License:** This tab provides a direct location to enter an IP camera license.
- **Refresh:** After an IP camera license is entered, this tab allows you to initialize the license to connect additional cameras.

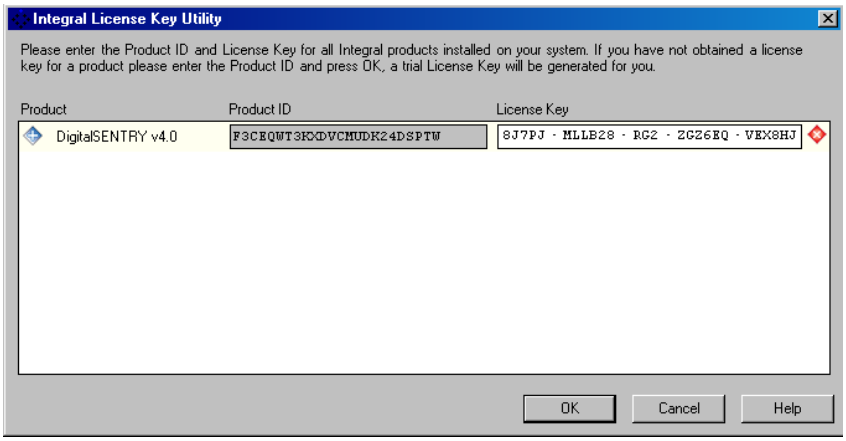



**Figure 17.** Entering Product ID and License Keys

- **Add Camera:** This tab allows you to find and add an IP camera manually.

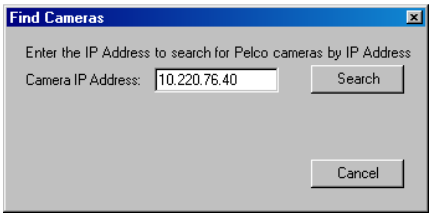



**Figure 18.** Manually Adding IP Cameras

8. After you have entered and initialized the IP camera license, click the Record check box to select the IP cameras you want to configure and record.
9. Configure the IP camera settings:
   - **Quality:** This tab allows you to change the camera quality settings. When the camera utility locates the stream, the quality setting for that camera records at the highest compression, resolution, and frame rate.

     **NOTE:** The quality settings shown are meant to reflect what the software supports and not necessarily what the camera supports.

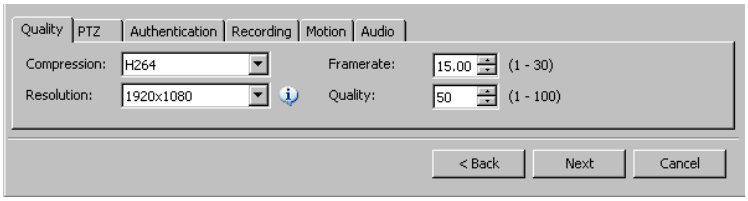



**Figure 19.** Quality Tab

   - **PTZ:** This tab enables a PTZ operation through any Spectra® Series camera and an Endura® encoder. Select Coaxitron® (15 bit), Extended Coaxitron (32 bit), Protocol D, or Protocol P as the control mode. You must select the camera address for a 2-wire communication.

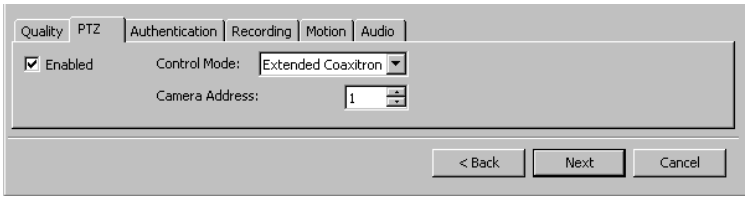



**Figure 20.** PTZ Tab

   - **Authentication:** This tab authenticates an IP camera that requires user credentials. When you click the Validate button, the credentials for the IP camera are verified. If you click the "Apply to all" button, these settings are applied to all cameras. If you click the Unmask check box, the password appears in the Password box.

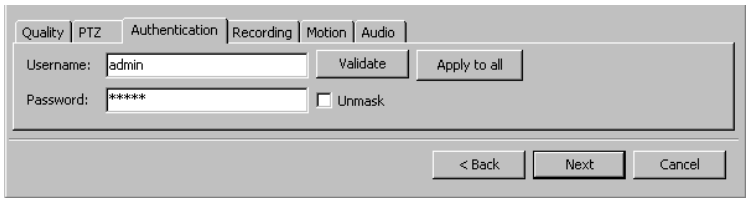



**Figure 21.** Authentication Tab

- **Recording:** This tab allows you to change the default recording mode to either Motion Recording or Continuous Recording. When you select "Apply to all," this setting is applied to all cameras.

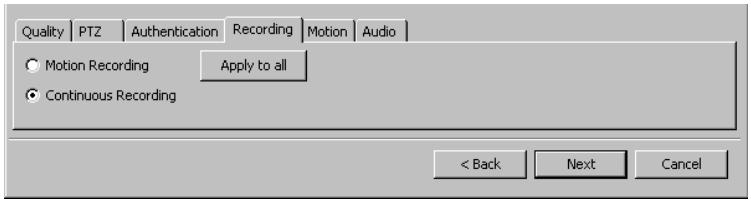



**Figure 22.** Recording Tab

- **Motion:** This tab allows you to configure the settings for motion detection.




**Figure 23.** Motion Tab

This Motion tab contains the following motion detection settings:

**NOTE:** Setting the motion sensitivity to a lower value means that small changes in the image will trigger a motion alarm. The higher the motion sensitivity value, the larger the change in scene characteristics will be required to trigger the alarm.

- **In-Camera (Recommended):** Enables camera software motion detection.
- **Server side (CPU Intensive):** Enables server side software motion detection.
- **Motion Sensitivity:** Sets the percentage of change in pixels required for that portion of the image to be considered changed. The sensitivity value is expressed as a percentage times 100. For example, a value of 100 indicates a 1 percent change and a value of 5000 indicates a 50 percent change. A brightness change from black to white would indicate a value of 10,000 or 100 percent. This comparison is performed for all of the pixels in each image.

  **NOTE:** Setting the motion sensitivity to a lower value means that small changes in the image will trigger a motion alarm. The higher the motion sensitivity value, the larger the change in scene characteristics will be required to trigger the alarm.
- **Motion Area:** Sets the percentage that an image must change, when compared to the reference image, to trigger motion recording. For example, a value of 10 percent means that one-tenth of the pixels in the image must change for motion to be detected.

  **NOTE:** The value set for the motion area equals the percentage of the unmasked area that will trigger motion. Larger areas mean larger objects.

- **Audio:** This tab allows you to enable audio recording on cameras that support audio. Leave the port set to zero to allow the software to automatically select the port.

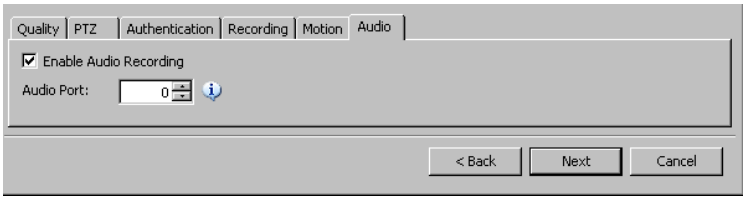



**Figure 24.** Audio Tab

10. Click the Next button. The Confirm Configuration dialog box appears (refer to Figure 25).

    The Confirm Configuration dialog box shows you the changes that occurred to new or existing configurations. If necessary, click the Back button to change these settings.

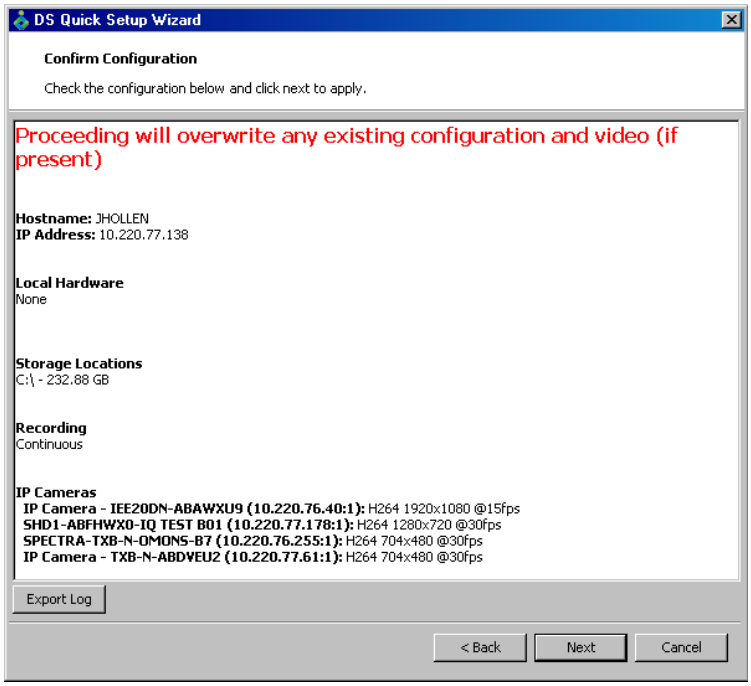



**Figure 25.** Confirm Configuration Dialog Box

11. Click the Next button when all of the desired settings are correct. The Apply Configuration dialog box appears (refer to Figure 26).

    The Setup Wizard begins configuration, which allows the configuration process to flow through settings from the DS-NVs installation. Each process appears in the Apply Configuration dialog box as it occurs. When completed, the Configuration Completed Successfully message appears as the last entry in the list.

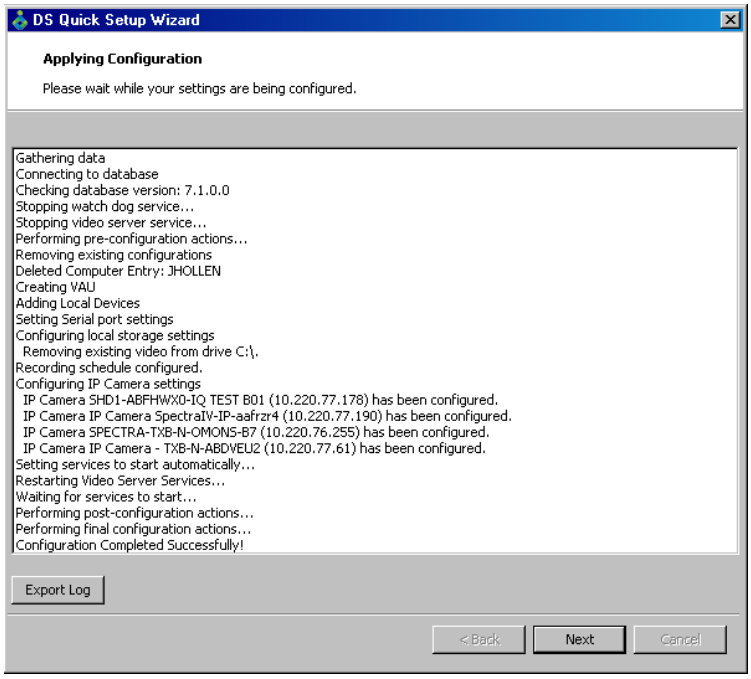



**Figure 26.** Apply Configuration Dialog Box

12. Click the Next button. The “Completing the DS Quick Setup Wizard” dialog box appears.

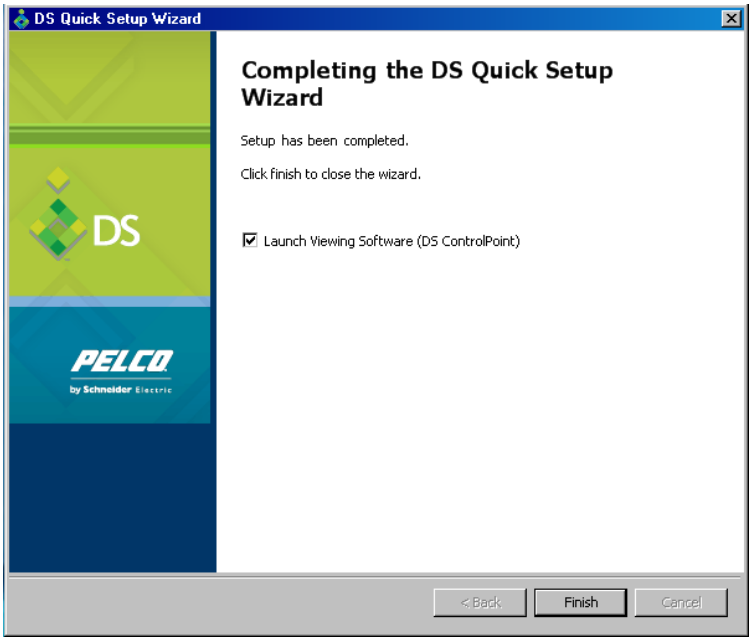



**Figure 27.** Completing the DS Quick Setup Wizard Dialog Box

13. Click Finish to launch DS ControlPoint (refer to Figure 28 on page 15).

    When you click the Finish button, a splash screen appears stating that the software is initializing. When DS ControlPoint launches, you are logged on and connected to the system automatically.

    **NOTE:** When the installation is complete, a DS ControlPoint startup icon appears on your desktop.

14. Click the plus sign (+) next to your system name to expand the camera list.

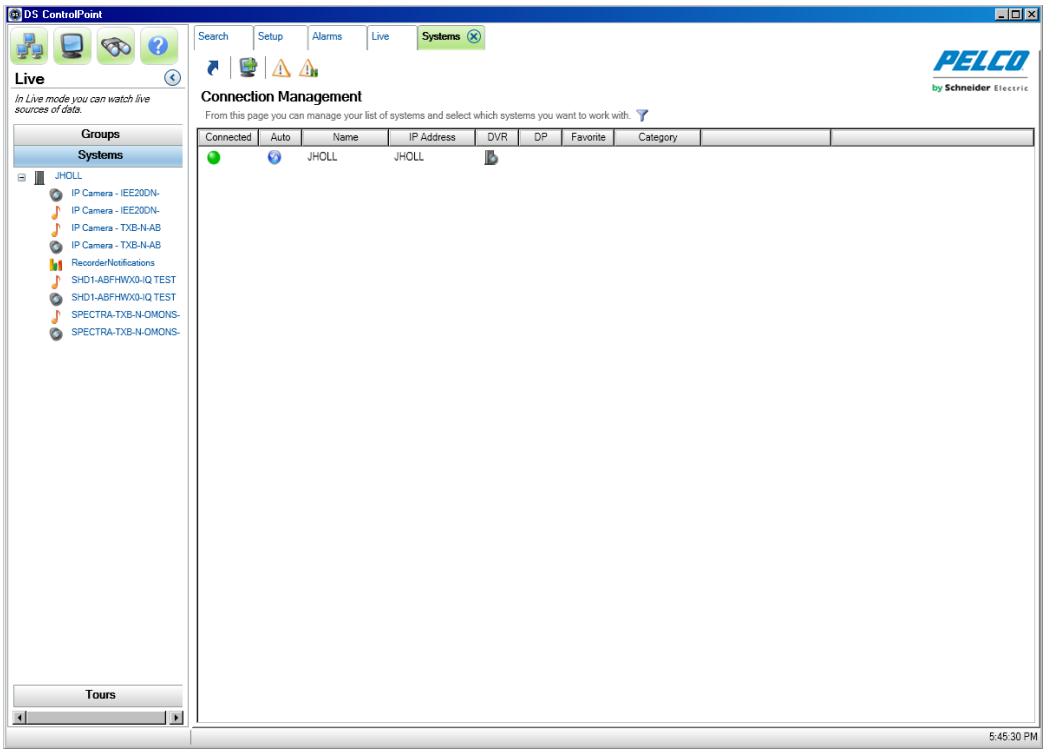



**Figure 28.** DS ControlPoint Connection Management Screen

15. Click the Live icon to view live video.
16. Select the Systems section of the navigation pane and expand the tree until you see the appropriate camera.
17. Drag the camera or device into any of the video panes.

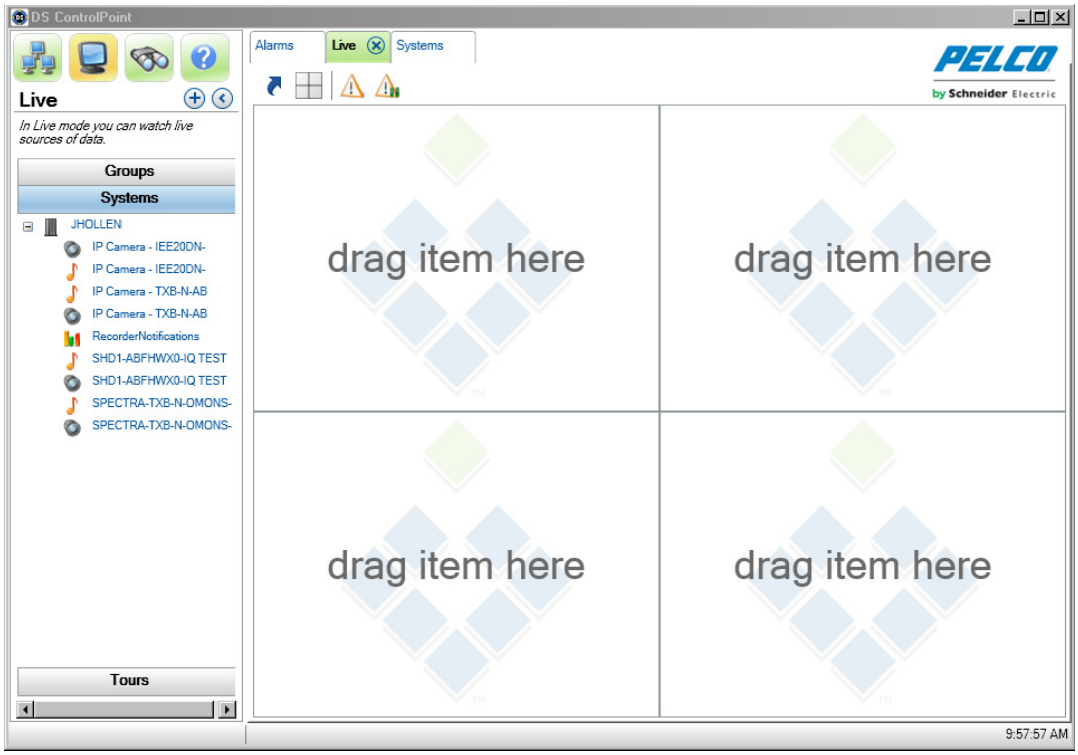



**Figure 29.** Live Screen

18. Repeat steps 14 and 15 until video or data from all the desired cameras and devices is displayed in the video panes.

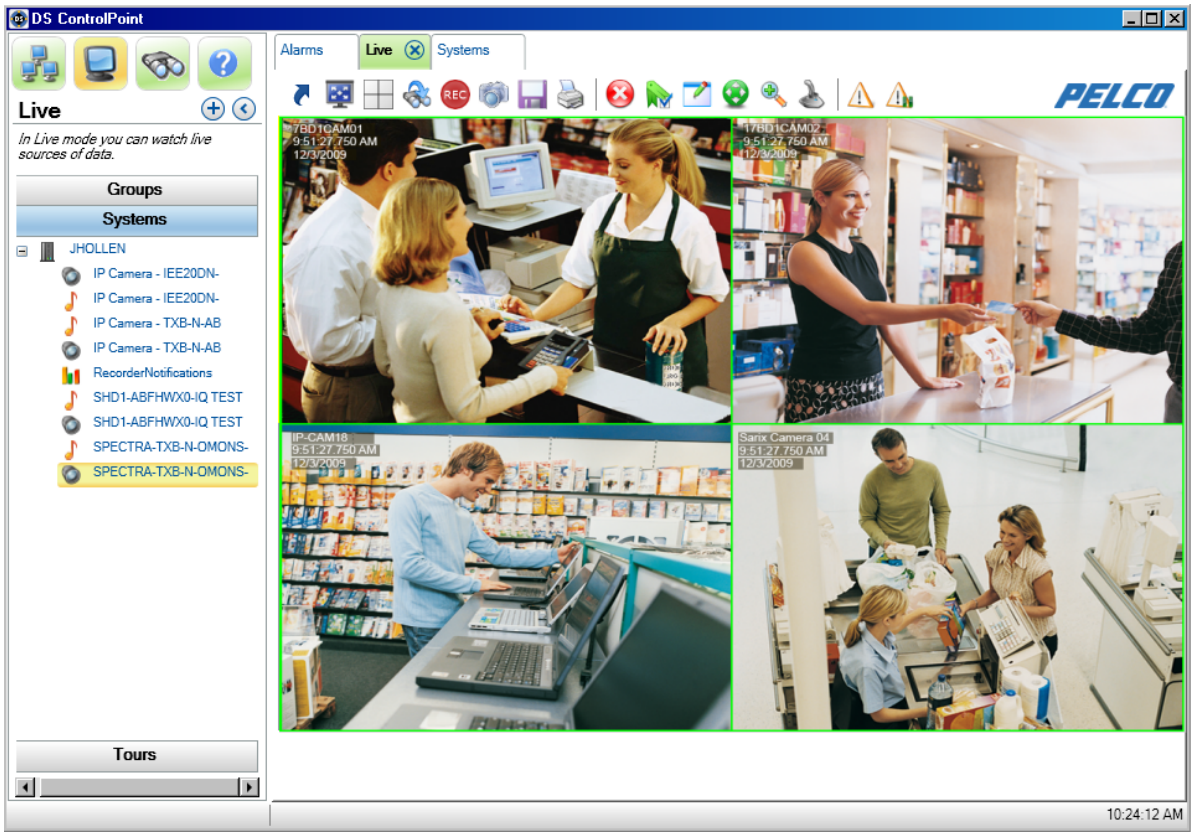



**Figure 30.** Dragging Cameras into Video Panes

The installation is now complete and the software is ready for use.

## PRODUCT WARRANTY AND RETURN INFORMATION

### WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years:
  - Fiber optic products
  - Unshielded Twisted Pair (UTP) transmission products
  - CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models
- Three years:
  - Fixed network cameras and network dome cameras with Sarix® technology
  - Sarix thermal imaging products (TI and ESTI Series)
  - Fixed camera models (CCC1390H Series, C10DN Series, C10CH Series, and IP3701H Series)
  - EH1500 Series enclosures
  - Spectra® IV products (including Spectra IV IP)
  - Spectra HD dome products
  - Camclosure® Series (IS, ICS, IP) integrated camera systems
  - DX Series video recorders (except DX9000 Series which is covered for a period of one year), DVR5100 Series digital video recorders, Digital Sentry® Series hardware products, DVX Series digital video recorders, and NVR300 Series network video recorders
  - Endura® Series distributed network-based video products
  - Genex® Series products (multiplexers, server, and keyboard)
  - PMCL200/300/400 Series LCD monitors
  - PMCL5xxF Series and PMCL5xxNB Series LCD monitors
- Two years:
  - Standard varifocal, fixed focal, and motorized zoom lenses
  - DF5/DF8 Series fixed dome products
  - Legacy® Series integrated positioning systems
  - Spectra III™, Spectra Mini, Spectra Mini IP, Esprit®, ExSite®, ExSite IP, and PS20 scanners, including when used in continuous motion applications
  - Esprit Ti and TI2500 Series thermal imaging products
  - Esprit and WW5700 Series window wiper (excluding wiper blades)
  - CM6700/CM6800/CM9700 Series matrix
  - Digital Light Processing (DLP®) displays (except lamp and color wheel). The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Six months:
  - All pan and tilts, scanners, or preset lenses used in continuous motion applications (preset scan, tour, and auto scan modes)

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to a Pelco designated location. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental, or consequential damages (including loss of use, loss of profit, and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, sales order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product that does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

### RETURNS

To expedite parts returned for repair or credit, please call Pelco at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair) and designated return location.

All merchandise returned for credit may be subject to a 20 percent restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid.

Revised 5-6-11

Green The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

### REVISION HISTORY

| Manual # | Date | Comments |
|---|---|---|
| C4660M | 2/10 | Original version. |
| C4660M-A | 10/10 | Updated the software installation and configuration instructions. Also updated the corresponding graphics. |
| C4660M-B | 5/11 | Updated the windows authentication, user service password, and SQL server tools information. Replaced screens with the updated Pelco logo. |

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