PELCO

by Schneider Electric

OPERATION

Digital Sentry®
DS ControlPoint

C3674M-I (5/11)

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Description

Digital Sentry® DS ControlPoint is an intuitive graphical user interface that allows users to monitor and manage any combination of analog or IP devices through a common digital video security application.

A DS ControlPoint supported system is a video matrix solution supporting multiple monitors that allows any data output (such as transaction data from a cash register or point of sale device, alarm data from a video analytics application, or alarm notifications) to be shown in any DS ControlPoint video pane.

DS ControlPoint allows users to monitor video from Pelco DX Series digital video recorders (DVRs) and hybrid video recorders (HVRs), providing investment protection for customers with existing DX equipment who are looking to benefit from today's HD and megapixel camera offerings.

Installing the Software

The DS ControlPoint installation file can be downloaded from the following Pelco Web site: *http://www.pelco.com.*

WARNINGS:

- Do not run the DS ControlPoint software as a regular monitoring utility on a video acquisition unit (VAU), server, or combination component. Reserve a dedicated client computer for this purpose.
- Do not activate any system lock or screensaver features while running the DS ControlPoint software. These features can interfere with certain Digital Sentry processes.

The procedure for installing the DS ControlPoint software is as follows:

1. If the file was downloaded from the Web site, unzip the downloaded file.

NOTE: Be sure to record the location of the unzipped files, as you will need these files during the update procedure.

2. Launch (double-click) the "setup" file; the welcome page appears.
3. Click the Next button.
4. Click the Install button in the "Ready to Install the Program" message. When the installation is complete, a DS ControlPoint startup icon appears on the desktop and the installation program closes.
5. Click the DS ControlPoint icon 

on the desktop to launch DS ControlPoint.

   NOTES:

   - A user name and password prompt does not appear when DS ControlPoint is initially launched.
   - The Connection Management page appears for initial installations of DS ControlPoint.
   - The Live page appears for DS ControlPoint upgrades.

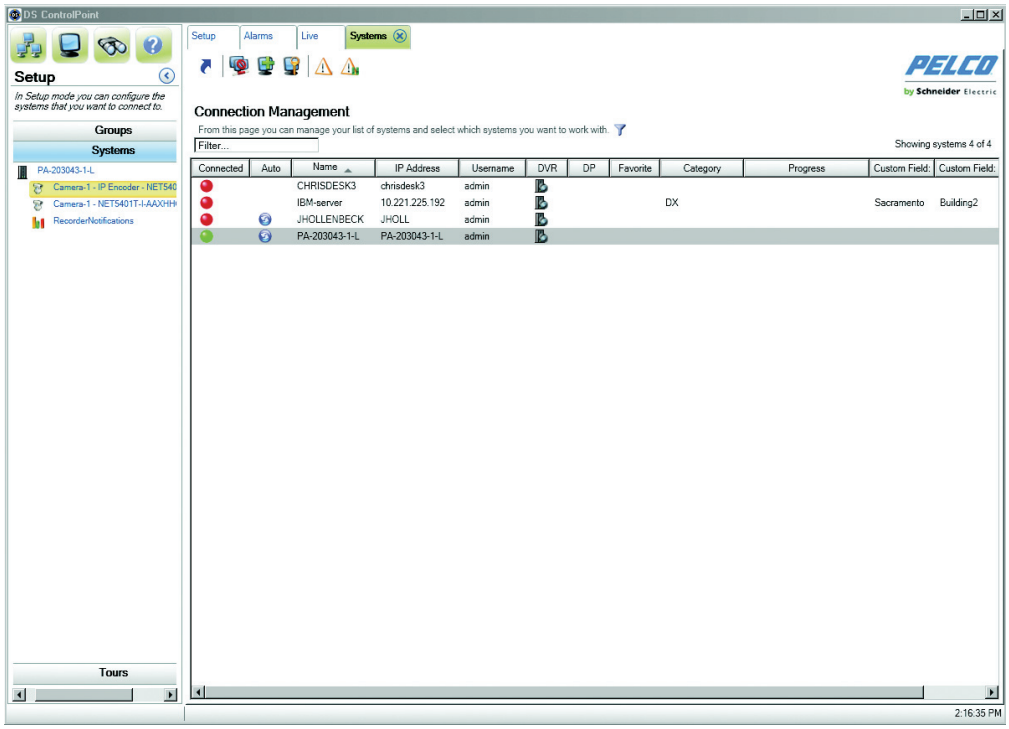


Figure 1. Connection Management Page

DS ControlPoint Overview

The DS ControlPoint client window consists of four major pages:

Setup: Allows you to manage systems and create tours.

Live: Allows you to view live video.

Search: Allows you to search for recorded video.

Help: Allows you to search for user operation instructions.

Each of these sections is accessible using the icons located in the upper-left corner of the navigation pane.

Any page can be "undocked" so that it can be viewed while simultaneously viewing other pages. This is accomplished by clicking the Undock Tab icon , or right-click the system list and select Undock Tab from the list.

The navigation pane on the left side of the DS ControlPoint window (refer to Figure 2) is always accessible except when full-screen mode is selected.

The navigation pane contains the following sections:

Groups: Contains groups of digital video management systems (DVMS).

Systems: Allows you to view all cameras and other sources associated with connected DVMS.

Tours: Allows you to create and run automated tours of camera views.

The navigation pane allows you to view camera groups, camera names, and configured tours. You can minimize the navigation pane by clicking the left arrow button; this hides the entire pane except for the four page icons. To view the entire pane again, click the right arrow button.

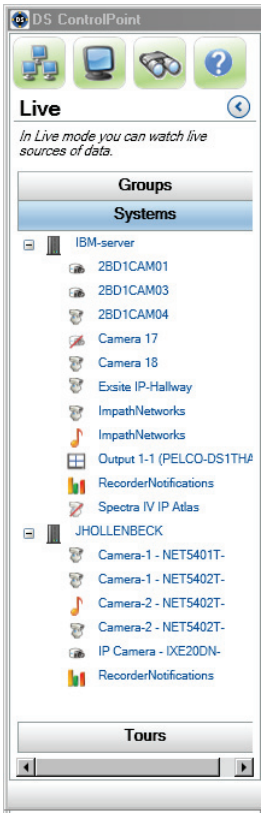


Figure 2. Navigation Pane for Live Page

Operation

SETUP

The Setup page (refer to Figure 3) contains the following options when you click the Setup icon located in the top-left corner of the window or the Setup tab.

Application Settings: Allows you to select general settings for the application.

Manage Systems: Allows you to add, remove, and connect to the DVMS and Pelco DX Series video recorders**.**

NOTE: The user logon and password for any video recorder using DS ControlPoint must be the same as the DS ControlPoint user logon and password.

Create New Tour: Allows you to create automated tours of camera views.

Alarm Popup: Allows you to receive a pop-up notification when an alarm occurs on any connected system.

Digital Sentry Reports: Allows you to view several types of reports.

Check for Software Update: Allows you to check for DS ControlPoint software updates through the Internet.

About: Displays the DS ControlPoint version number and other version information.

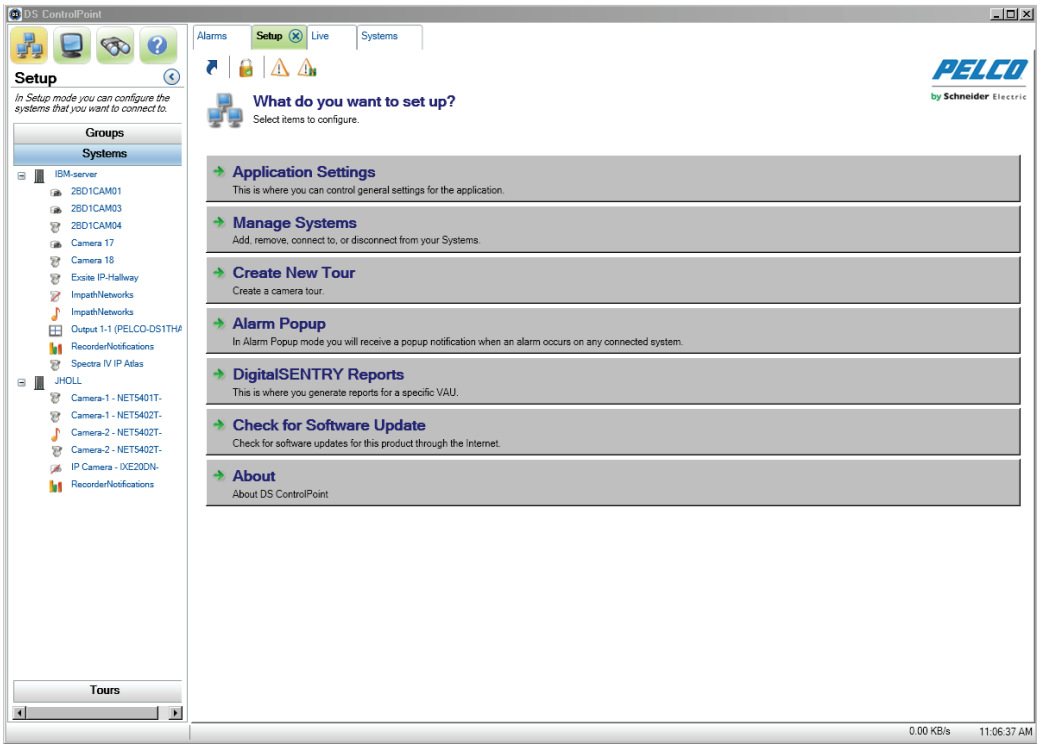


Figure 3. Setup Page

APPLICATION SETTINGS

When you click Application Settings in the Setup page, the Application Settings dialog box appears (refer to Figure 4). This dialog box allows you to control your general, bandwidth, and synchronization settings for the application.

General: Allows you to save the last live configuration when the application is closed. You can also require a note when clearing an alarm, enable an alarm pause timeout, select your native language, and select the time format to enter data and to view video.

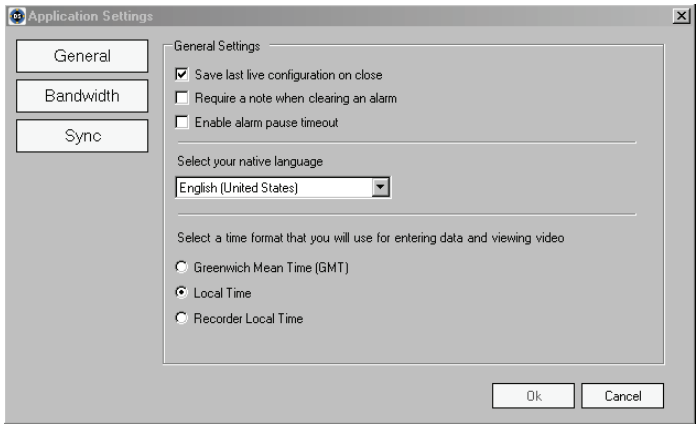


Figure 4. General Settings Dialog Box

Bandwidth: Allows you to control the amount of information (data) requested from the DVR. When a server reaches the allowed bandwidth set by the administrator, it blocks additional read attempts and moves them into a queue to be processed once bandwidth use reaches an acceptable level.

If an administrator sets a bandwidth limit, a throttle override with dwell information can be set up. This will allow users to override the current bandwidth restriction, if necessary, for a designated period of time. The following settings must be configured for the override:

- **Bandwidth Limit:** Using the slider, set the amount of information requested from the Digital Sentry server.
- **Throttle Override:** Select "Allow override...for" all systems or an individual system.
- **Dwell Information:** Set the override length of time (in seconds) for the bandwidth throttle override. Set the re-override length of time (in seconds) a user must wait before attempting another override.

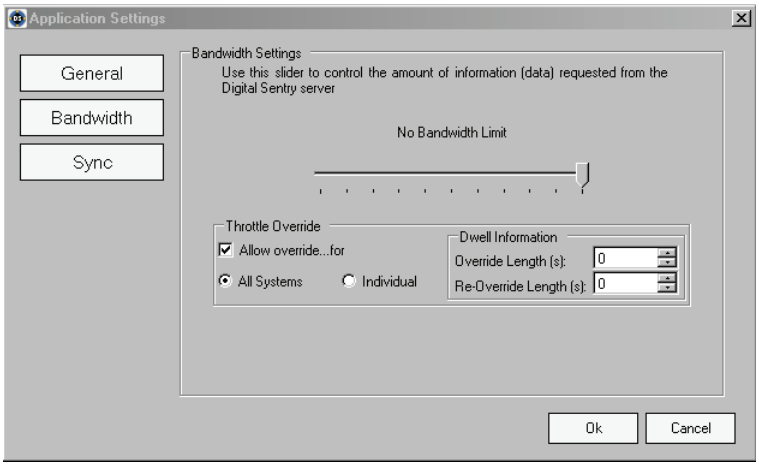


Figure 5. Bandwidth Settings Dialog Box

Once these options have been configured, you can open the ThrottleAssistant by typing "B" on the keyboard (refer to Figure 6). The settings configured in the Bandwidth Settings dialog box appear in the ThrottleAssistant dialog box.

- If Individual was selected under Throttle Override, a list of connected systems will appear under "Available for Override."
- If All Systems was selected under Throttle Override, All Systems will be the only item to appear under "Available for Override."

The Countdown will begin with the override seconds and then will count down the refresh seconds.

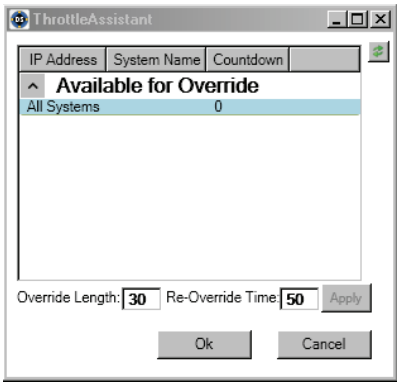


Figure 6. Throttle Assistant

NOTE: You can only set a bandwidth throttle on connected systems. If you select All Systems and one or more of those systems are not connected, you will receive a warning that the bandwidth throttle could not be overridden on the unconnected systems.

Sync: Allows you to synchronize your import and export settings, which makes it easy to share your configurations between two or more systems running DS ControlPoint. You can import existing settings from DS Admin to avoid recreating your system settings. You can also use global settings when DS ControlPoint is first started, or you can clear your current settings and reload the global settings.

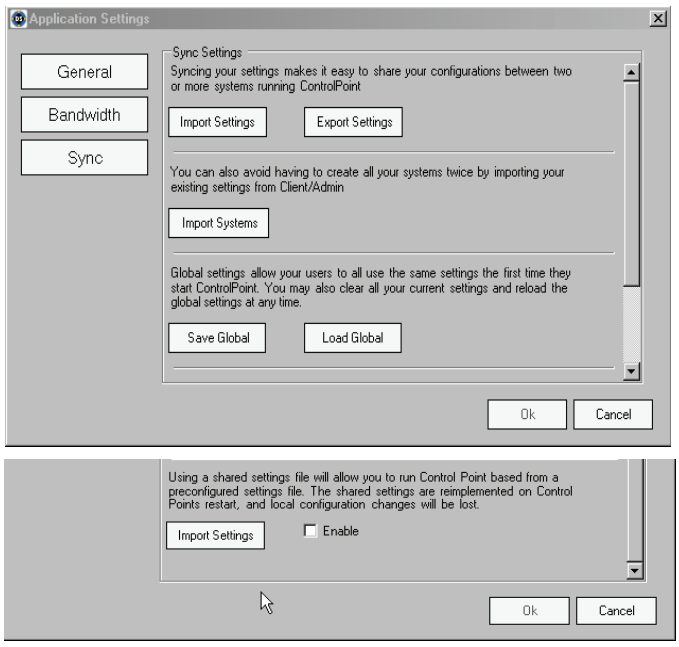


Figure 7. Sync Settings Dialog Box

To import systems:

1. Click the Application Settings tab in the Setup page. The Application Settings dialog box appears (refer to Figure 7 on page 11).
2. Click the Sync button. The Sync Settings section appears.
3. Click the Import Systems button. An Import Complete dialog box appears showing the number of systems that are imported and the number of existing systems that are ignored (refer to Figure 8).
4. Click the OK button to close the dialog box.

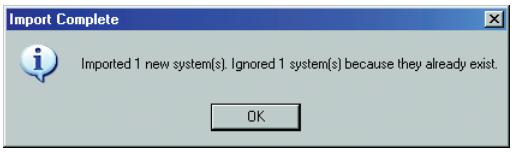


Figure 8. Import Complete Dialog Box

To change to global settings:

1. Click Application Settings in the Setup page. The Application Settings dialog box appears (refer to Figure 7 on page 11).
2. Click the Sync button. The Sync Settings page appears.
3. Choose one of the following global settings options:
   - Click the Save Global button to automatically open global settings the first time you open DS ControlPoint.
   - Click the Load Global button and restart DS ControlPoint to change from personal settings to global settings.

To import settings:

1. Click Application Settings in the Setup page. The Application Settings dialog box appears (refer to Figure 7 on page 11).
2. Click the Sync button. The Sync Settings page appears.
3. Click the Import Settings button.
4. Click the Enable box.
5. Select the exported settings file.
6. Click the Open button.

MANAGE SYSTEMS

When you click Manage Systems in the Setup page, the Connection Management page appears (refer to Figure 9). This page allows you to add and connect to systems. It also displays information about the DVMS connected to the client computer.

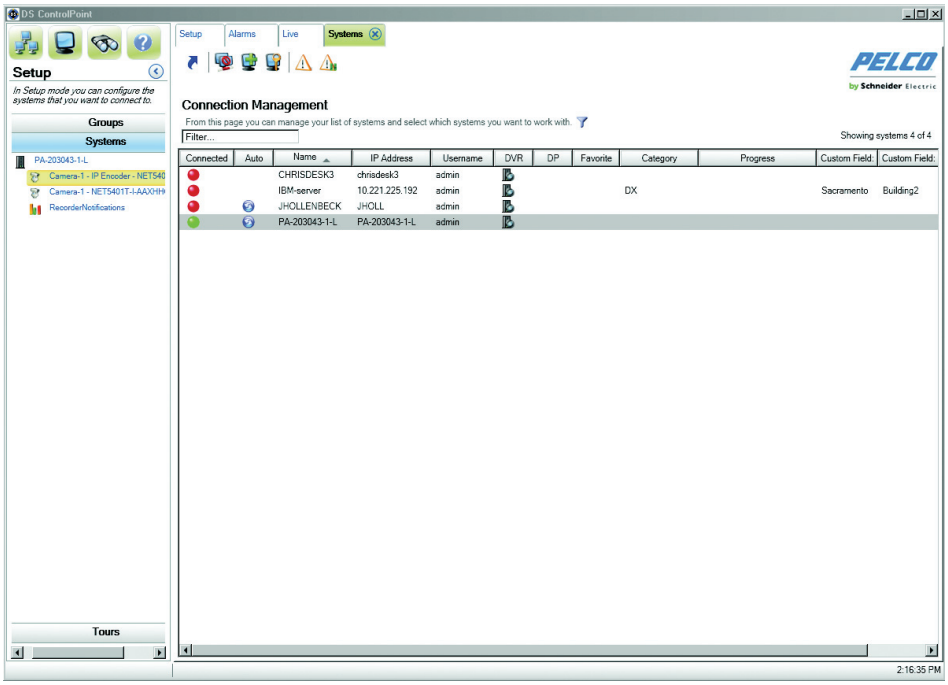


Figure 9. Connection Management Page

Numerous systems can be managed by administrators. For example, 30 guards configure their systems with different setups (that is, different buildings, cameras, and tours). As a system administrator, you can add those 30 systems to your Connection Management page and view each system as needed. This means that administrators can view live video, recorded video, and alarms remotely at any time. You can also add custom fields to each system.

To add a DVMS to the list:

1. Click the Add System button , or right-click and select Add System from the menu. This opens the Add System tab, which allows you to add systems to the system list.

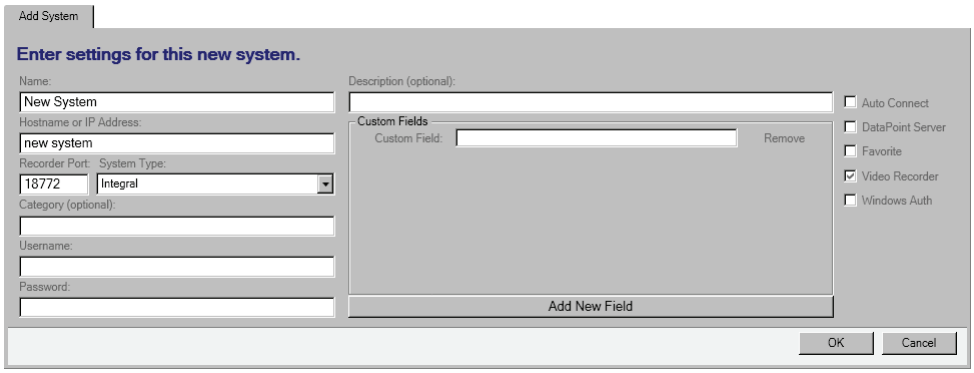


Figure 10. Add System Tab

2. On the Add System tab, type the computer name of the DVMS, a host name or IP address, the video recorder network port, the system type, and an optional category. The default video recorder network ports are as follows:
   - 18772 for DS
   - 9001 for DX4100/DX4500/DX4600/DX4700/DX4800
   - 9002 for DX8000/DX8100
3. Type the required user name and password.

   NOTE: The user name and password must be identical to the user name and password as the video recorder system to which DS ControlPoint is being connected.
4. Type an optional description of the system in the Description text box.
5. Type a custom field in the Custom Field text box. You can add additional custom fields by clicking the Add New Field button, or you can remove custom fields by clicking the Remove button located next to the Custom Field text box. These custom fields will appear as new columns for the respective system.
6. If you want to connect automatically to the system every time DS ControlPoint starts, select the Auto Connect check box.
7. If you want to identify the system as a favorite that can be sorted at the top of the system list with other favorite systems, select the Favorite check box.
8. If the system is a DVMS video recorder, select the Video Recorder check box.
9. If the system is configured for transactional data, such as video analytics, or data from other sources, such as cash registers or ATMs, select the DataPoint Server check box.
10. If you want the system to pass information to Microsoft® Windows® Active Directory, select the Windows Authentication check box.

    NOTE: Active Directory is not required for Windows authentication. It can also be authenticated with local users and groups on a DVR.
11. When configuration of the system is complete, click the OK button to add it to the list of configured systems on the Connection Management page.
12. Repeat these steps for each system.

SYSTEM LIST

The list of configured systems on the Connection Management page can be sorted by clicking any column title. The following columns are included:

Connected: Indicates whether the system is connected (green), disconnected (red), or attempting connection (yellow).

Auto: Indicates that the system is configured for automatic connection when DS ControlPoint starts.

Name: Lists the name entered for the system during configuration.

IP Address: Lists the IP address or host name entered for the system during configuration.

Username: Lists the name entered for the user during configuration.

DVR: Indicates that the system was identified as a video recorder during configuration.

DP: Indicates that the system was identified as a DataPoint Server during configuration.

Favorite: Indicates that the system was identified as a favorite system during configuration.

Category: Lists the optional category entered for the system during configuration.

Progress: Indicated the status of system connections. A progress bar appears when you are connecting to a system.

To connect to a system, click the Connect icon (refer to Table A on page 15) or right-click the system name, and then select Connect from the list.

To edit the information about a system, click the Edit System icon or right-click the system name, and then select Edit System from the list.

To delete a system from the list, click the Delete System icon or right-click the system name, and then select Delete system from the list.

Table A. System Icons

	Connect	Connect to a system.
	Add System	Add a system to the list of available systems.
	Update Password	Update the password of the logged in user.
	Edit System	Edit the system settings (system name, IP address, and so on)
	Delete System	Remove the system from your System Management list.
	User Override	Override the saved user for each system with the new credentials provided.

NOTE: The Edit System and Delete System functions are available only for systems that are not currently connected. Select Disconnect before editing or deleting a system.

CONNECTING TO A SYSTEM

You have several options to connect to a system that lacks the appropriate user name and password.

To connect using Connect:

1. Select a disconnected system in the Connection Management page.
2. Click the Connect icon  or double-click the disconnected system. The User Name and Password dialog box appears.

   NOTE: This dialog box appears only if the user name and password are not defined during system configuration.

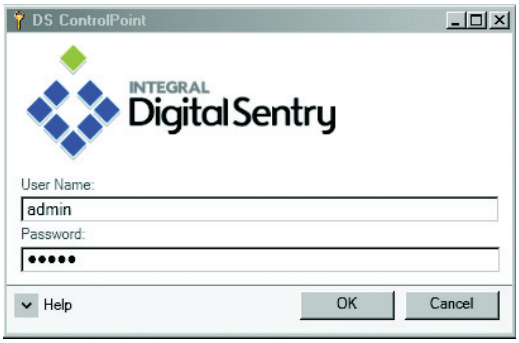


Figure 11. User Name and Password Dialog Box

3. Type the correct user name or password, or both.
4. Click the OK button. The system is connected and the red dot under the Connected column turns green.

   NOTE: To keep the system connected each time you open DS ControlPoint, select Auto Connect in the Edit System or Add System tab.

To connect using Edit System:

1. Click the Edit System icon . The Edit System tab appears (refer to Figure 13 on page 16). You can also right-click a disconnected system and select Edit System from the system drop-down menu.

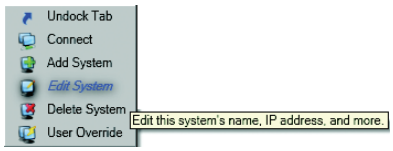


Figure 12. System Drop-Down Menu

2. Type the correct user name or password, or both.

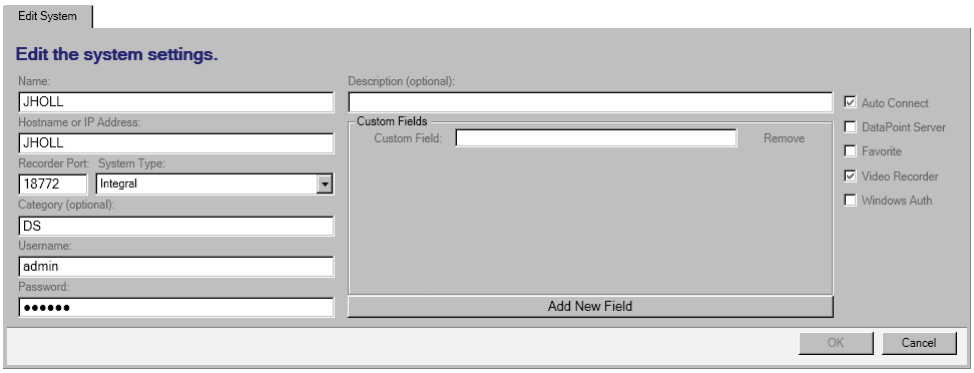


Figure 13. Edit System Tab

3. Click the OK button. The system is connected and the red dot under the Connected column turns green.

ADDING CUSTOM FIELDS

You can add custom fields for each system. For example, you might want to list a site location such as an address, a city, or a building. These custom fields will appear as columns in the Connection Management page.

1. Click the Edit System button or the Add System button. The Edit System or Add System tab appears in the Connection Management page (refer to Figure 14).
2. Type a custom field in the Custom Field text box.
3. Click the Add New Field button for each additional custom field. You can also delete a custom field by clicking the Remove button located next the Custom Field text box.
4. Click the OK button to save your settings and close the Edit System or Add System tab.

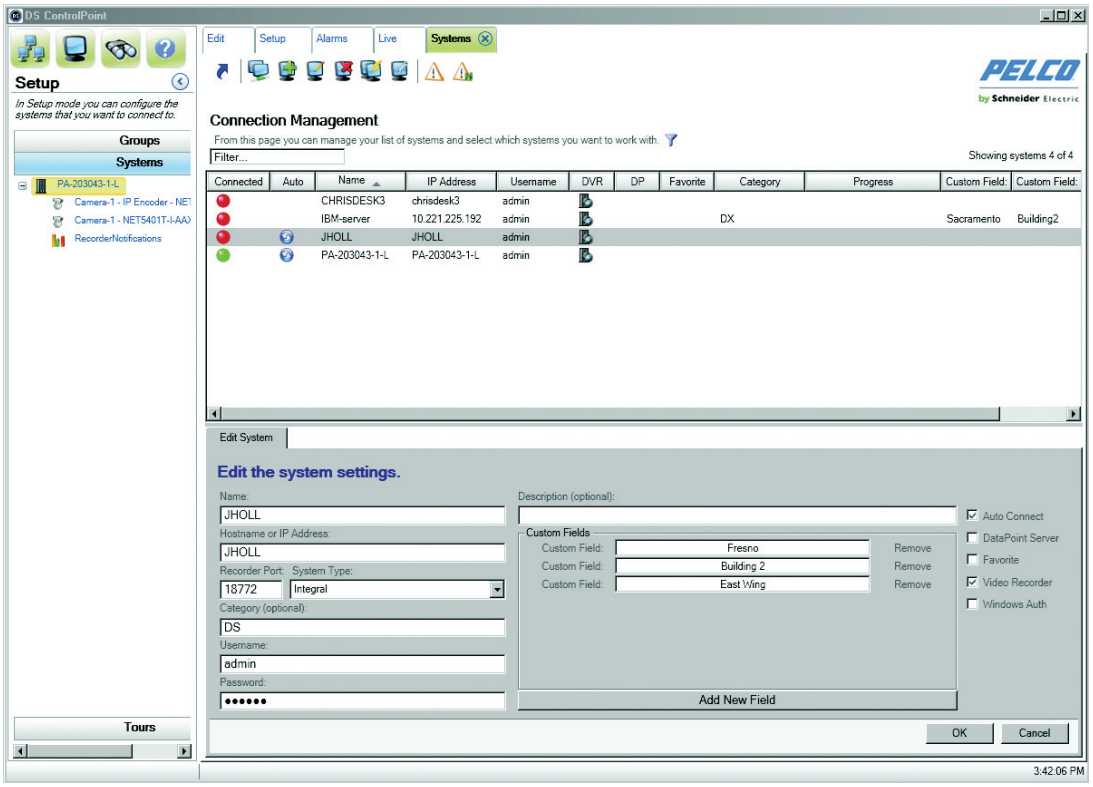


Figure 14. Add or Edit System Settings Dialog Box

UPDATING YOUR PASSWORD

1. Click the appropriate system.
2. Click the Update Password icon . The Update Password dialog box appears (refer to Figure 15 on page 18).
3. Type the old password, the new password, and then confirm the new password.
4. Click the OK button to close the dialog box.

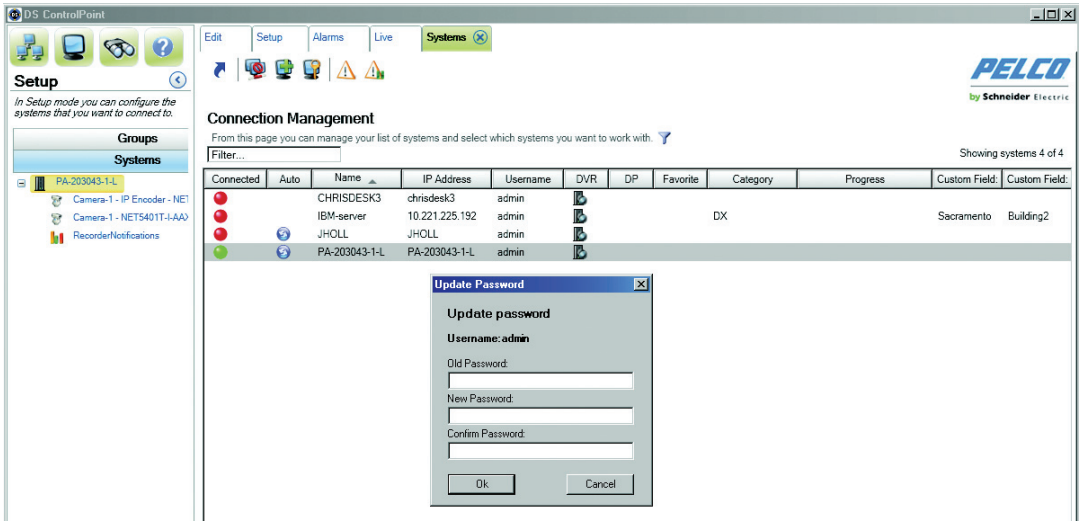


Figure 15. Password Update Dialog Box

FILTERING THE SYSTEMS

You can use a filter to show or hide systems. This is a useful tool when you have hundreds of systems to manage. You can filter the systems by name or IP address. For example, you can filter any system name beginning with DX.

HIDING THE SYSTEM LIST

1. Click the Filter icon . The Filter box opens.

   NOTE: Clicking the Filter icon opens and closes the Filter box.

2. Type all or part of the name or IP address. Only those systems designated in the filter will appear.

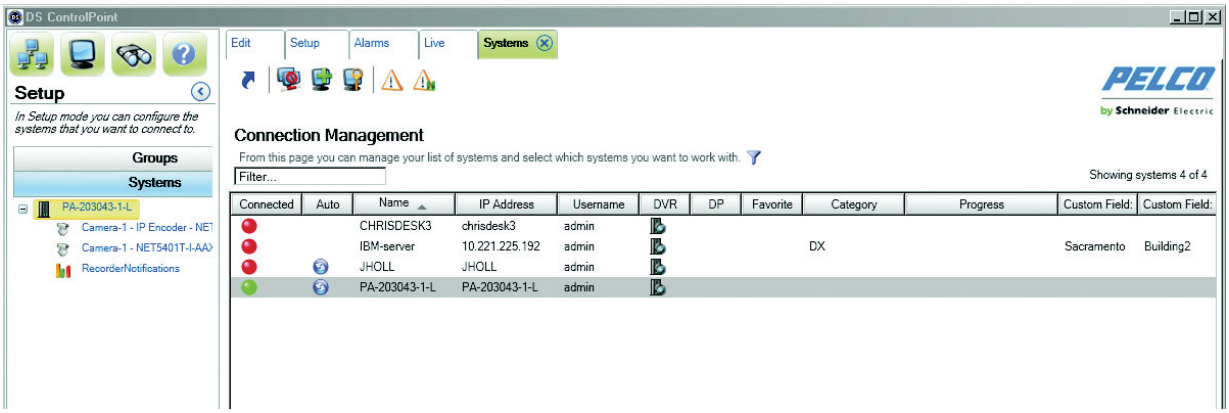


Figure 16. Filtering the System List

SHOWING THE SYSTEM LIST

1. Highlight the text in the Filter box.
2. Press Delete on your keyboard. All the systems are now visible.

TROUBLESHOOTING THE SYSTEMS

DS ControlPoint provides you with a diagnostics tool to search for network or software service issues and to reestablish network connections.

1. Right-click a system that has lost connection to the network, or highlight the system and then click the Diagnostics icon. The Diagnostics tab appears (refer to Figure 17). Both the Connected icon and the Status icon appear gray.
2. Click the Attempt Repair button. When the connection to the server is established, the Attempt Repair button changes to Repaired and the Status icon turns green.
3. Click the Connect icon  or double-click the server. The Connected icon turns green and the network connection is reestablished.
4. Click the Close button to close the Diagnostics tab.

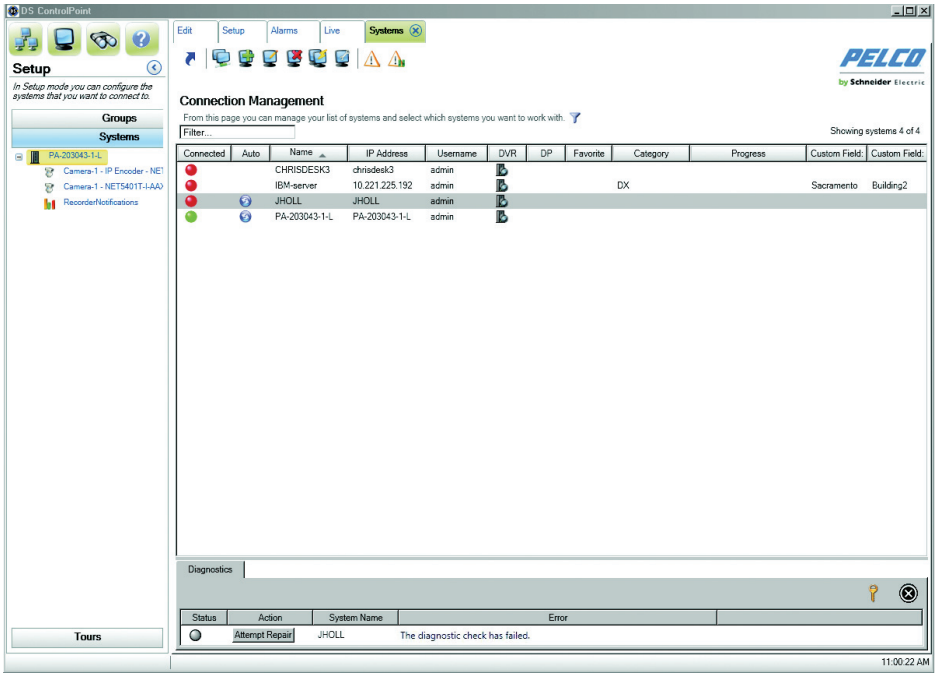


Figure 17. Diagnostics Tab

WORKING WITH TOURS

Creating tours allows you to configure different groups of cameras and sequence through those tour groups. The system cycles through the tour items based on a defined dwell time.

CREATE A NEW TOUR

To create a tour of cameras:

1. On the main Setup page (refer to Figure 3 on page 9), click Create New Tour to open the Edit Tour page. You can also right-click the Tours button on the navigation pane. The Edit Tour page allows you to configure an automated tour of cameras.

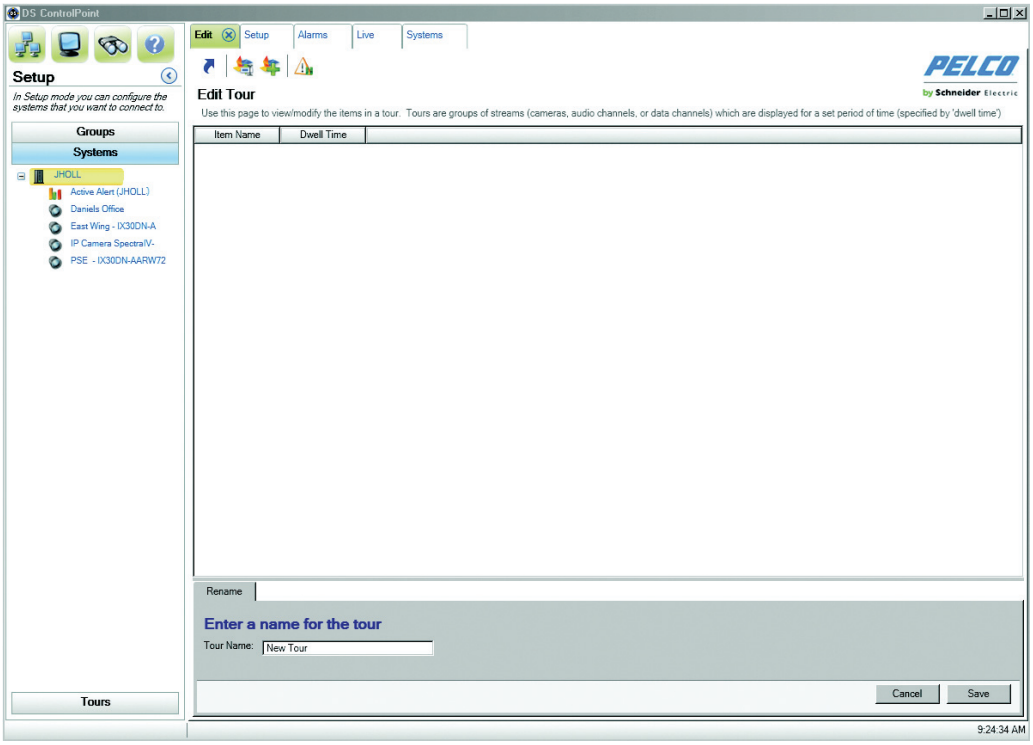


Figure 18. Edit Tour Page

2. On the Rename tab, type a name in the Tour Name text box, and then click Save.
3. Click the Tours button in the navigation pane to list all previously created tours (refer to Figure 19 on page 21).

4. Select the tour, and click the Add Tour Item icon. This opens the Add Tour Item tab.

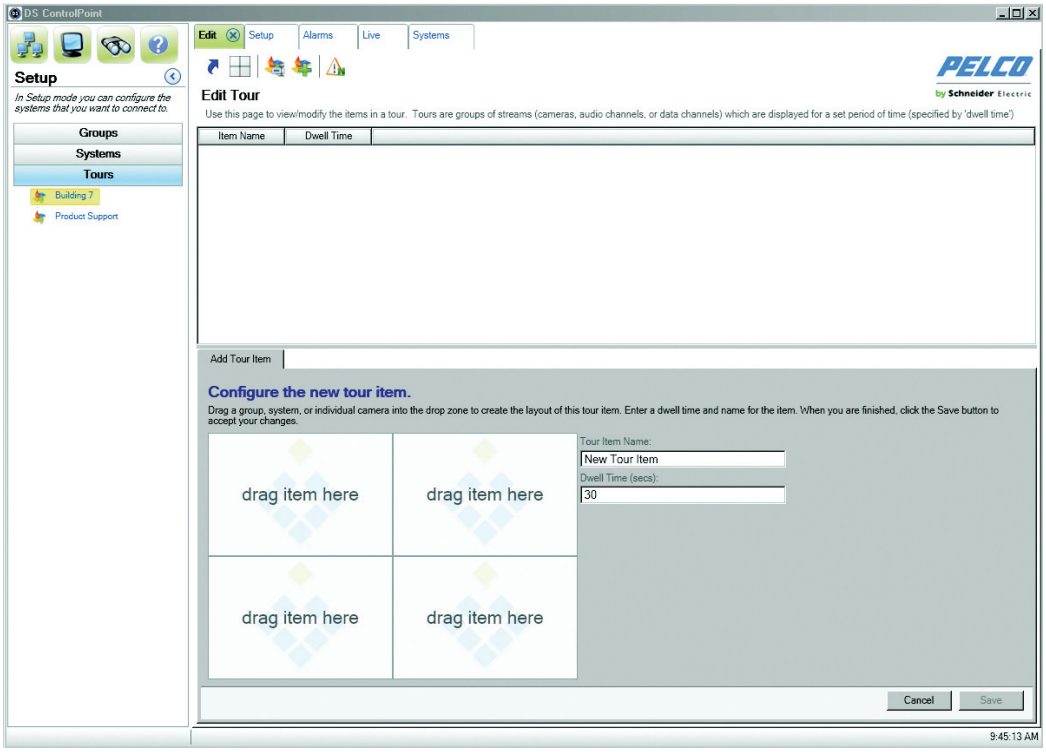


Figure 19. Add Tour Item Tab

5. Type a name for the first tour item in the Tour Item Name text box. In the Dwell Time text box, type the amount of time (in seconds) that you want the tour item to be displayed.
6. Select the Systems section of the navigation pane and expand the tree until you see the cameras and other sources that you want to include in the tour. Drag and drop the cameras or sources into the video panes on the Add Tour Item tab.
7. When the tour item is configured as desired, click the Save button.
8. To add additional tour items, click Add Tour Item and repeat steps 3 through 6.

Run and Pause a Tour

To run a tour:

1. Select the Tours section of the navigation pane.
2. Right-click the tour name and select Run from the menu.

To pause and resume a tour:

1. Click the Pause Tour icon (refer to Figure 20).
2. Click the Resume Tour icon. Alternatively, select the Tour tab, right-click the tour name, and select Run from the menu.



Figure 20. Resume Tour and Pause Tour Icons

ALARM POPUP

If you are assigned Alarm Activity rights in DS Admin, Digital Sentry immediately notifies you when an alarm event occurs. Alarms are sorted by the time they occurred in descending order (from oldest to newest).

PLAYING BACK CURRENT ALARMS

You can play back video associated with an alarm event by clicking the event notification. The alarms will populate the video screens depending on the layout. For example, if the video screen layout is 4 x 4 and 18 cameras are available, only the first 16 cameras will be displayed in the video panes. If there are three or fewer cameras in the zone associated with the alarm event, live video is displayed simultaneously with the recorded alarm event.

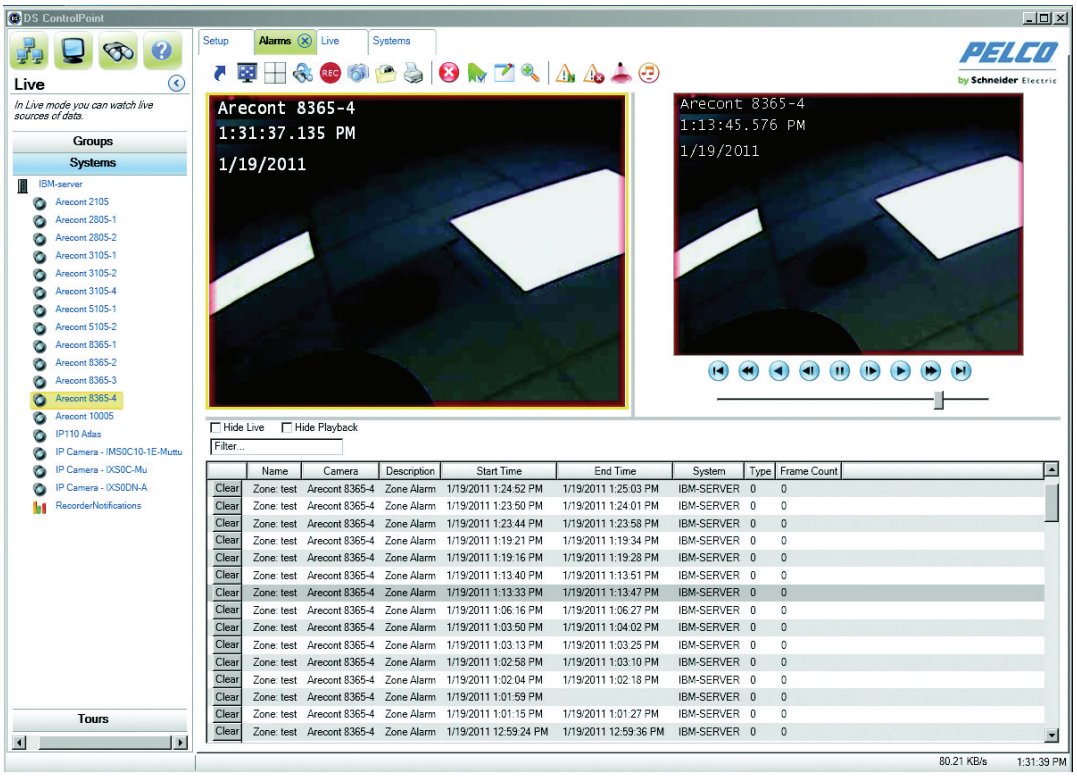


Figure 21. Playing Back Current Alarms

CONFIGURING THE ALARM PAGE SETTINGS

Alarm Popup allows you to receive a pop-up notification when an alarm occurs on any connected system. When Alarm Popup is enabled, the alarm window moves to the foreground indicating that an alarm event has occurred on a connected system.

The Alarm Popup screen allows you to select the type of alarms you want to display, such as motion and zone. You can also select the location in which you want the alarms to display, such as in an undocked window or in a new tab. Finally, you can configure each system individually for alarm pop-ups and select the number of alarms to keep in the list. Click Return to Setup to return to the Setup page.

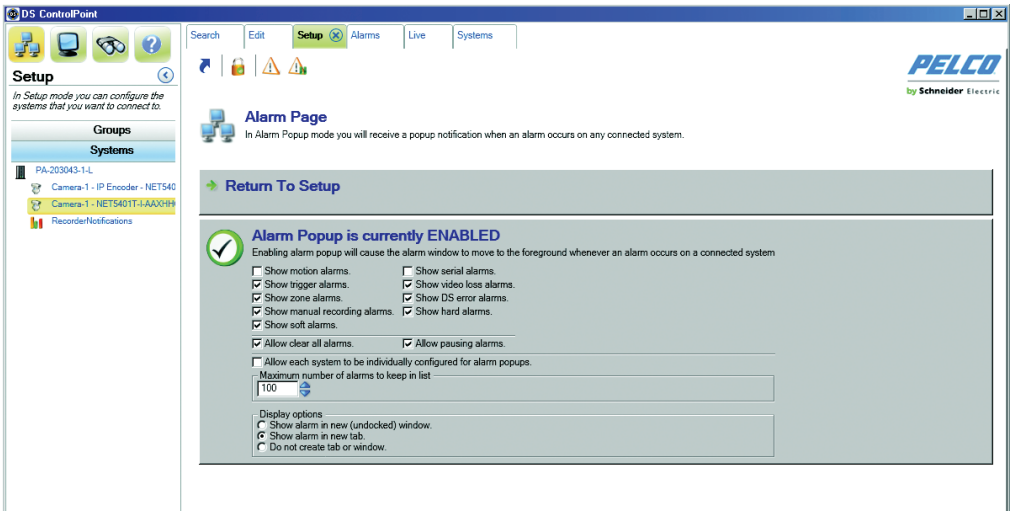


Figure 22. Alarm Popup Screen

ENABLING BEEP ON ALARM

You can configure Beep On Alarm to make an audible sound when an alarm is received. This feature is disabled by default.

1. Click the Alarms tab. The Alarms page opens.

2. Click the Beep On Alarm icon . The Beep On Alarm tab appears.

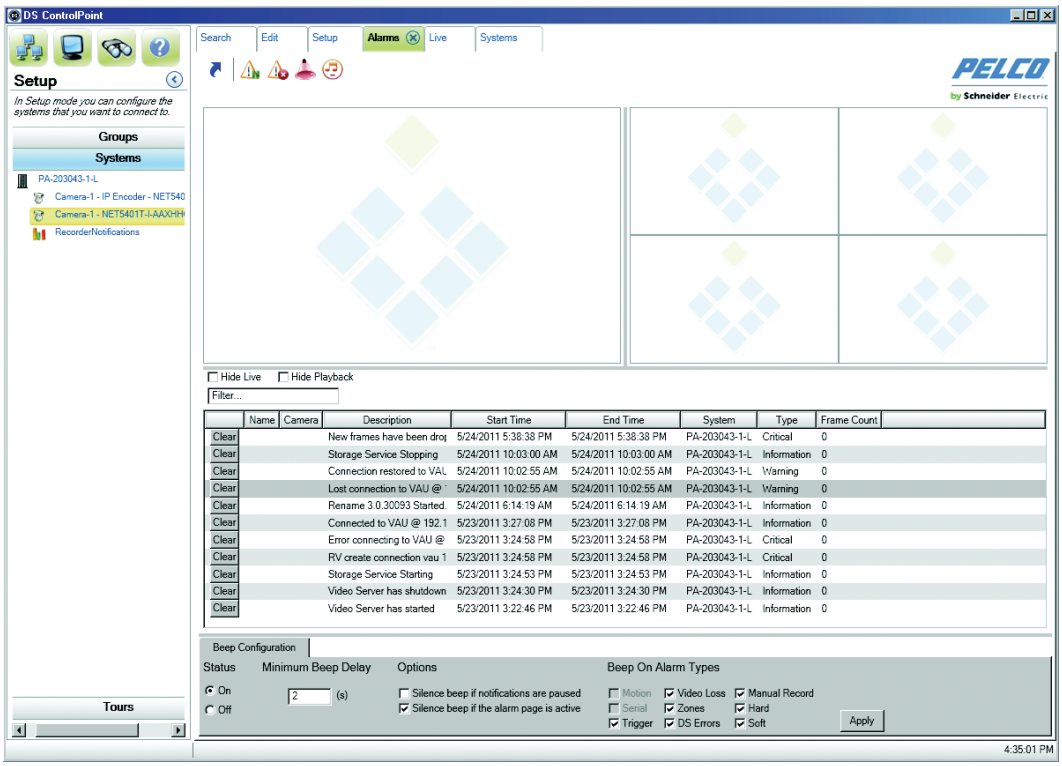


Figure 23. Beep On Alarm Tab

3. Click the On button in the Status section of the Beep On Alarm tab.

4. Choose the minimum beep delay, silence beep option, and the alarm types.

5. Click the Apply button. The Beep On Alarm status tab closes and the Beep On Alarm icon changes to enabled.

DIGITAL SENTRY REPORTS

Several types of reports can be viewed from DS ControlPoint:

Camera Usage Report: Displays recording activity (per camera and per day) in terms of the amount of disk space used for storage.

Activity Report: Displays the user or administrator activity by date/time, user name, and IP address depending on the user report selected.

Configuration Report: Displays all configuration changes for VAUs, cameras, camera groups, zones, users, and other configuration parameters.

Zone/VAU Report: Shows how zone alarms and VAUs are configured.

Reports can be viewed using a browser or they can be printed.

To generate a report:

1. Select the Digital Sentry Reports tab located on the Setup page (refer to Figure 3 on page 9). The Digital Sentry Reporting dialog box appears.

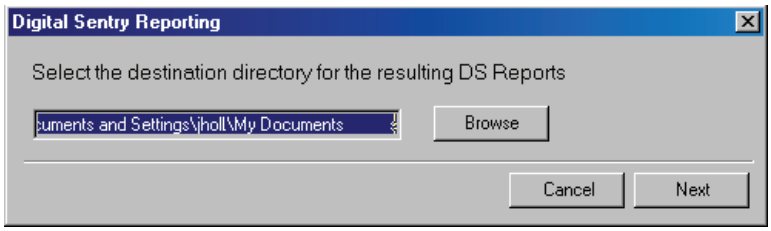


Figure 24. Digital Sentry Reporting Dialog Box

2. Click the Browse button to select the directory location for the DS report, and then click the Next button. A dialog box appears that instructs you to select the system(s) on which to run a report (refer to Figure 25).
3. Select a system(s) from the Available Systems list and click the Add button (>>) to add it to the Existing Systems list.

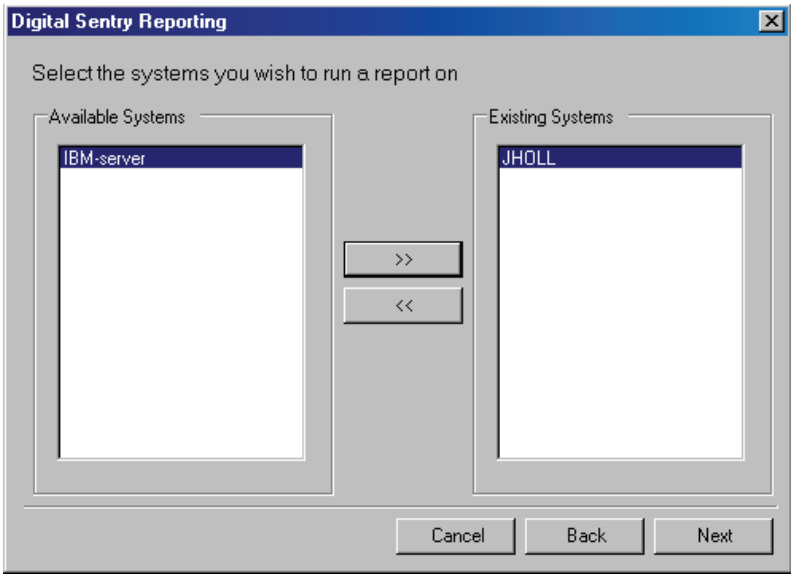


Figure 25. Selecting Existing Systems

4. Click the Next button. A dialog box appears to configure the report settings for the system.

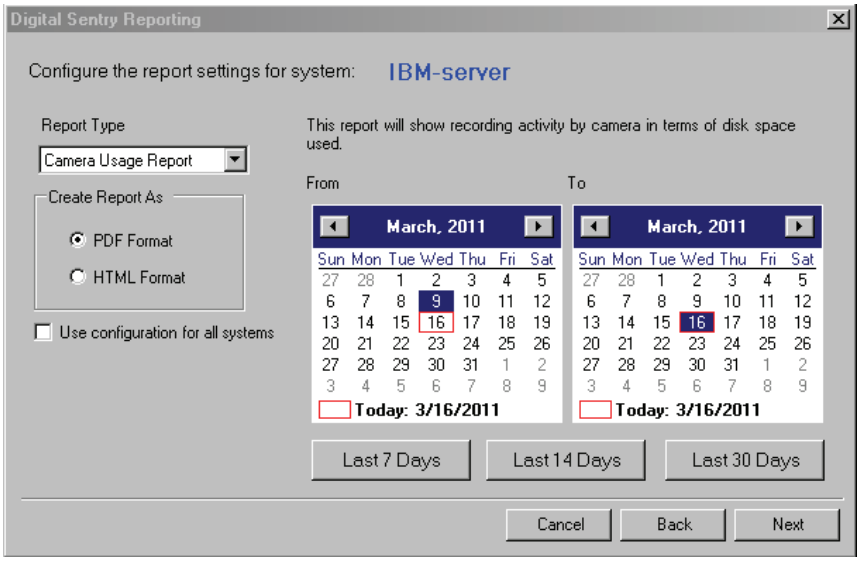


Figure 26. Configuring System Report Settings Dialog Box

5. Select a report type from the drop-down list.
6. Select the report format: PDF or HTML.
7. Select "Use configuration for all systems" if you want to reserve these settings for future reports.
8. Select the time period for the report using the From and To calendars or by selecting the Last 7 Days, Last 14 Days, or Last 30 days button.
9. Click the Next button. A dialog box appears to generate the report.

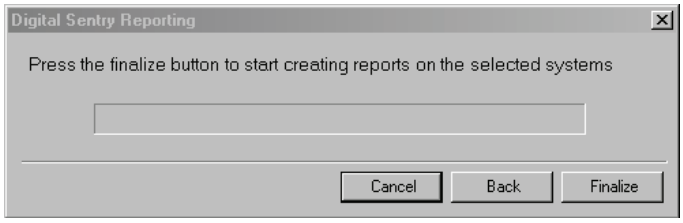


Figure 27. Create Report Dialog Box

10. Click the Finalize button. The report will appear in the directory location that you set up in step 2.
11. Click the Close button to close the Digital Sentry Reporting dialog box.

UPDATING DS CONTROLPOINT SOFTWARE

To determine if you require a DS ControlPoint software update:

1. Click the "Check for Software Update" tab in the Setup page. A "Confirm check for Software Update" dialog box appears.
2. Click the Yes button. A DS Update dialog box appears.

   NOTE: You must be connected to the Internet to perform this function.
3. Click the ControlPoint box, and then click the Next button.
4. Type the location in the Save Path box or click the Browse button for a download location, and then click the Next button.
5. Once the software download is complete, click the Finish button.
6. Open and install the downloaded DS ControlPoint software.

CONFIGURING ANALOG OUTPUTS

Analog outputs are visible in the Systems tree after connecting to a system in DS ControlPoint. Only analog cameras located on the same board and capture card as the analog output can be viewed through the output.

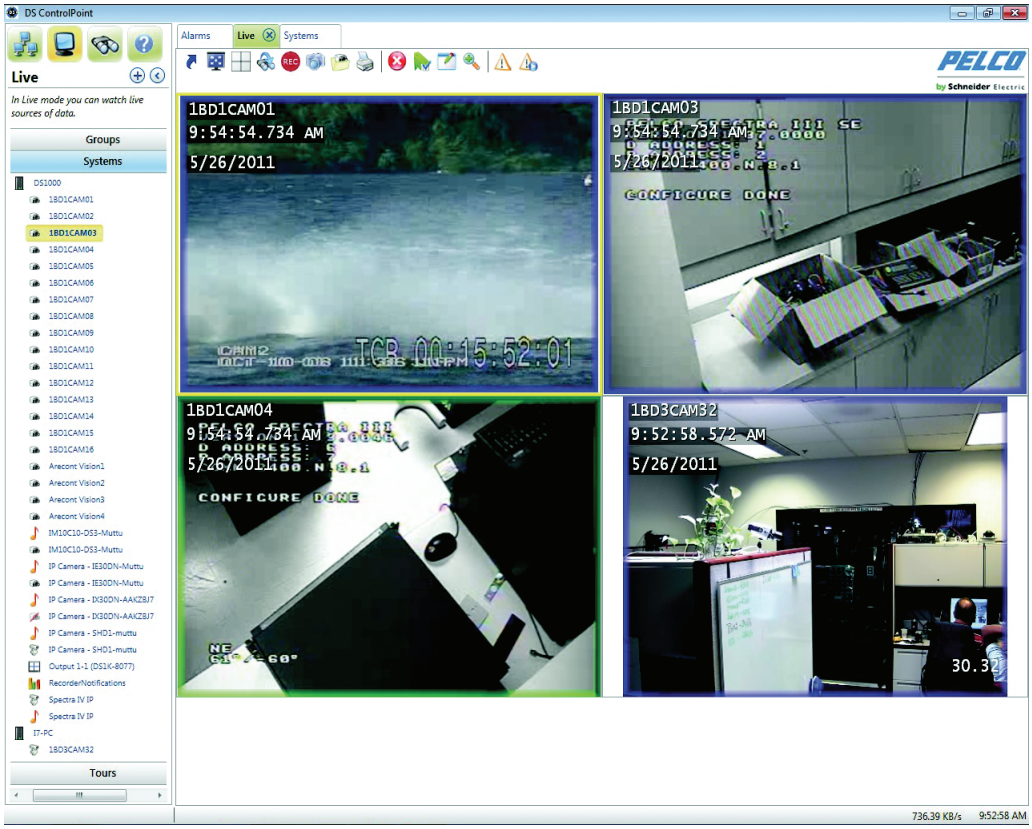


Figure 28. Analog Output Screen

To configure analog outputs in DS ControlPoint:

1. Double-click an analog output in the Systems tree to open a new analog output tab titled Mon <#>, which will connect the system to a specific monitor.
2. Drag and drop video in the video pane to automatically update the analog monitor.
3. Click one of the icons above the video pane to change layouts, remove video, or perform other actions.

NOTES:

- A system must have its analog outputs configured inside DS Admin.
- Layouts are currently restricted to 1 x 1, 2 x 2, 3 x 3, or 4 x 4 for analog outputs modified through DS ControlPoint.
- Users without the appropriate permissions will not be able to view or modify analog outputs.

Live

The Live page allows you to view live video in any of 22 configurations. To choose a configuration, click the Layout icon and select the configuration from the menu. To close the configuration menu, press the <Esc> key.

To view video or data in a video pane:

1. Select the Systems section of the navigation pane and expand the tree until you see the appropriate camera.
2. Drag and drop the camera or device name into any of the video panes (refer to Figure 29).

   NOTE: When you drag a DS DataPoint device into a video pane, a menu appears that allows you to select a data format to display. The data format options vary depending on the type of device selected.
3. Repeat these steps until video or data from all the desired cameras and devices is displayed in the video panes.

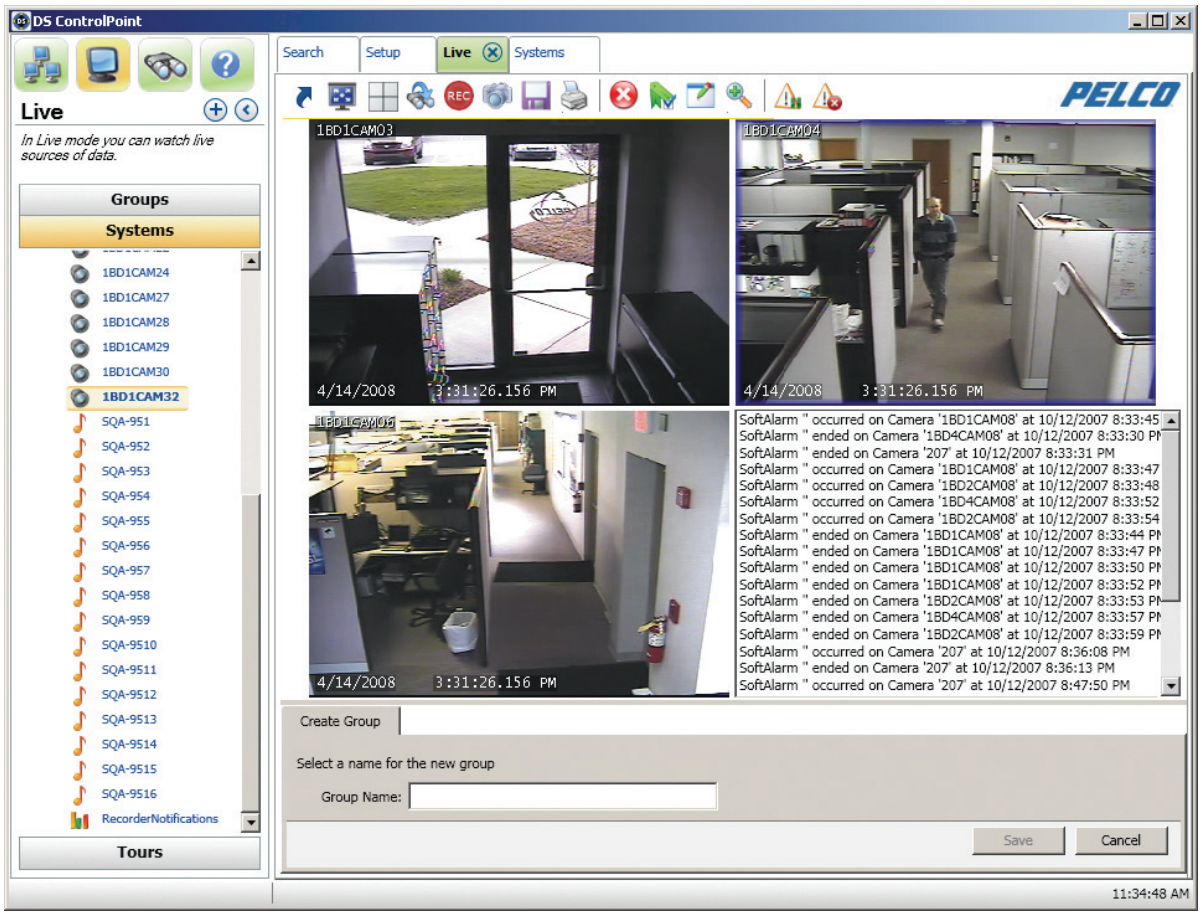


Figure 29. Live Page

NOTE: If the device placed into a video pane is a PTZ camera, refer to *PTZ Cameras* on page 41 for information on controlling the features for pan/tilt/zoom.

Clicking any one of the video panes causes all of the following Live page icons to appear.

Table B. Live Page Icons

	Full Screen	Enter full-screen mode and remove the window border.
	Layout	Select a video pane configuration.
	Quick Review	Review the last few minutes of recorded video
	Manual Record	Manually stop/start recording on a camera.
	Snapshot	Export the current still image from the selected Live/Playback video.
	Create Group	Store the selected list of displayed streams as a group.
	Print	Print an image of the current view.
	Remove	Stop viewing or listening to the selected stream.
	Manage On-Screen Display (OSD) Settings	Configure information displayed in the video pane for the selected items.
	Image Adjustments	Adjust brightness, contrast, and inverse display options.
	Enable On-Screen Pan/Tilt/Zoom	Start using on-screen pan/tilt/zoom on the selected camera **NOTE:** Appears for PTZ cameras only.
	Enable Digital Zoom	Begin using digital zoom on the selected video pane. **NOTE:** Appears for PTZ cameras only.
	PTZ Controls	Show keyboard-style pan/tilt/zoom controls. **NOTE:** Appears for PTZ cameras only.
	Alarm Page	View alarms received from connected recorders.
	Pause Notification	Overrides the current alarm display option and prevents the forced display of the alarm page.

FULL SCREEN

Clicking the Full Screen icon  enlarges the configuration window to full-screen mode; the video configuration now occupies the entire viewing field of the video monitor. To exit full-screen mode, either right-click anywhere on the page and select “Exit Full Screen” from the menu, or press the <ESC> key.

QUICK REVIEW

To view video recently recorded from the cameras displayed in the video panes, click the Quick Review icon and select the amount of video you want to view from the list. You can quickly view video recorded in several increments ranging from the last minute to the last 90 minutes.

When you select the increment, recorded video for the entire time range is played back starting from the beginning of the increment. The status bar in the bottom-right corner of the screen indicates the progress of the video. You can control playback of the recorded video using the nine buttons at the bottom of the screen; to view the function of a button, place your mouse pointer over the button. Also, click the status bar or drag the slider left or right to quickly move through the video.

To return to viewing live video, click the Live tab at the top of the window.

NOTE: For information about exporting recorded video, authenticating video, or filtering samples, refer to *Live and Playback Video Search* on page 34.

MANUAL RECORD

You can create a customized recording resolution and time frame by clicking the Manual Record icon REC. Use the following options to create your customized recording solution:

- Recording Resolution
  - Off
  - Low
  - Medium
  - High
- Recording Time
  - Never Stop
  - 1 Minute
  - 5 Minutes
  - 30 Minutes
  - 1 Hour

Selecting a low recording frame rate allows you to save recording space. Recording at a higher resolution allows you to increase the quality of the video recording. An example of a customized recording resolution might be in a college classroom. When the class begins, the recorder might be set to a high frame rate and a certain recording time. When the class ends, the frame rate and recording time would be set back to the original settings. This would result in saving space on your hard drive.

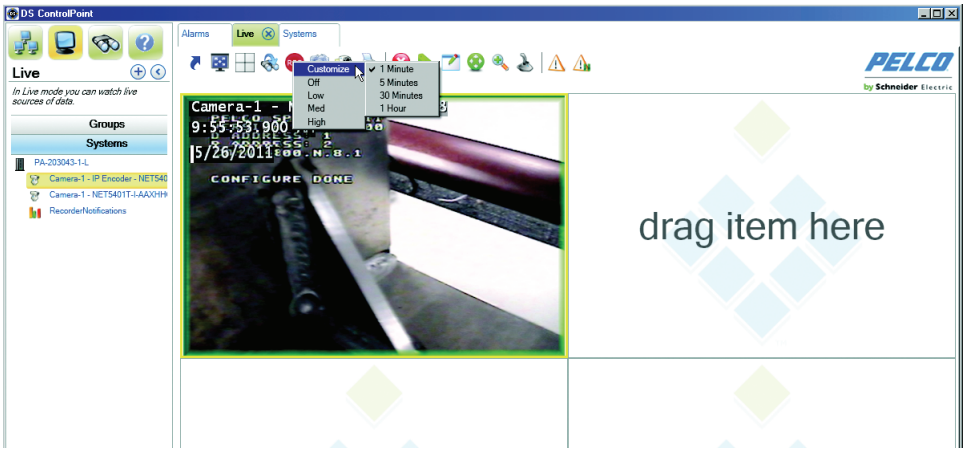


Figure 30. Customizing Recording

SNAPSHOT

To export a current still image from a selected live or playback video:

1. Click the Snapshot icon . The Snapshot Preview dialog box appears (refer to Figure 31).
2. Select a file type from drop down list: PNG (default), BMP, GIF, JPEG, and TIFF.
3. Select a file name for the snapshot.
4. Click the Save Path button to select a location to save the snapshot.
5. Click the Save button to save the snapshot to the desired location.
6. Select "Keep Open after Save?" if you want the Snapshot Preview screen to remain open.

NOTE: When you click the Refresh button, the snapshot will show the latest scene in the live or playback video.

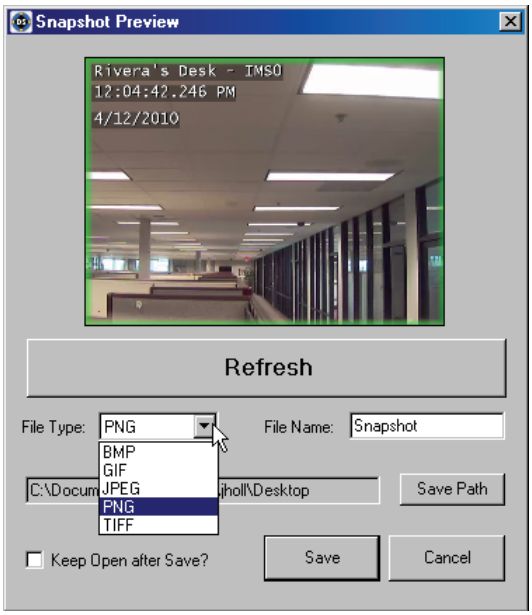


Figure 31. Snapshot Preview Dialog Box

CAMERA GROUPS

Any combination of cameras in a video pane configuration can be saved as a camera group. To save and view cameras as a camera group:

1. Drop the cameras into the video panes and click the Create Group icon . The Create Group tab allows you to save a combination of cameras in the video panes.
2. On the Create Group tab (refer to Figure 32), type a name for the group in the Group Name text box, and click the Save button. The camera group now appears in the Groups section of the navigation pane under Local Groups.
3. To view the camera group, right-click on the camera group name in the tree and select View Live from the menu. Alternatively, you can click and drag the group name into the video panes.

NOTE: Camera groups configured directly through DS Admin also appear in the Groups section of the navigation pane. They can be found in the System Groups portion of the tree.

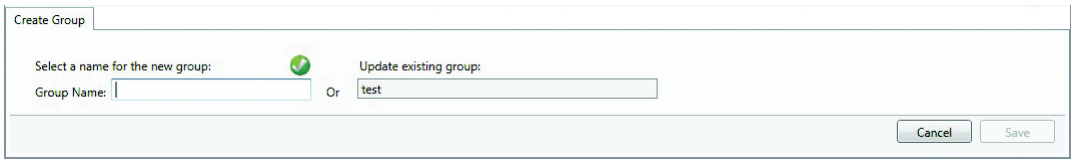


Figure 32. Create Group Tab

PRINTING IMAGES FROM VIDEO PANES

To print camera images displayed in the video panes, click the Print icon . On the Print tab, you can select options to include the OSD text (Text Overlay) and to fit the images to the paper (Best Fit). You can also preview the print job. To print the images, click the Print button.

VIDEO PANE BORDERS

Video panes displaying video that is currently being recorded are surrounded by colored borders, which indicate the current recording mode: time-lapse (green), motion (blue), or alarm (red). When you click a video pane to modify it, the window is also surrounded by a yellow border.

REMOVING VIDEO FROM A WINDOW

To stop and remove video from one of the configuration windows, click in the desired window to highlight it with a yellow border, and then click the Remove icon . You can also right-click in the desired window and select Remove from the menu.

MANAGE OSD SETTINGS

To display text in a video pane, click the Manage OSD Settings icon , or right-click the window and select Manage OSD Settings from the menu. This opens the On-Screen Display Settings window (refer to Figure 33). The On-Screen Display Settings window allows you to configure text items displayed in video panes.

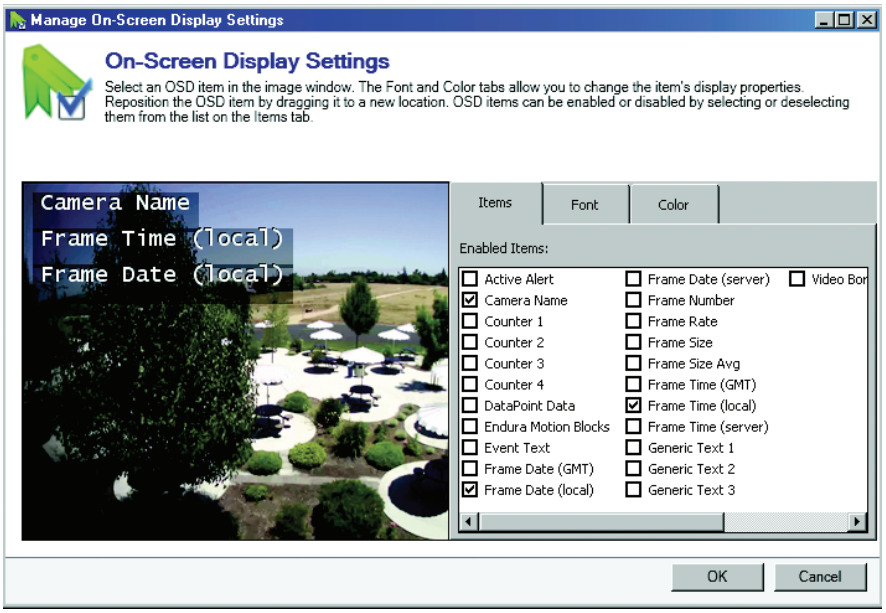


Figure 33. On-Screen Display Settings Window

NOTE: Many of the text options available on the Items tab have different functions based on their definitions on the server generating the information.

The Items tab allows you to select the text that you want to display (for example: camera names, Active Alert ellipses and counters). When you select a text item, it appears in the video pane. Click and drag the item to any location in the window.

The Font tab allows you to change the text font. Select the text item in the video pane, enter a Font Size, and choose a font from the drop-down list.

The Color tab allows you to change the text's color, shadow, and background. Select the text item and choose a color from the wheel, or move the sliders on the black-and-white bars.

IMAGE ADJUSTMENTS

To adjust the brightness and contrast of displayed video:

1. Select one or more windows that are currently displaying video.
2. Click the Image Adjustments icon , or right-click the windows and select Image Adjustments from the menu. This opens the Image Adjustments tab.
3. Using the slider, adjust the brightness and contrast of the desired video. You can also select the Inverse check box to display a negative of the video.
4. When finished, click the Apply button.

ENABLE ON-SCREEN PAN/TILT/ZOOM

The Enable On-Screen Pan/Tilt/Zoom feature  is only available on cameras that support PTZ. Click in the video screen of a camera that supports PTZ to begin using this feature.

ENABLE DIGITAL ZOOM

The Enable Digital Zoom feature allows you to zoom in and out of an area in the selected video pane (the window surrounded by a yellow border).

To zoom, perform the following steps:

1. Click the Enable Digital Zoom icon .
2. Position the mouse pointer over the area of the video you want to zoom.
3. Use the mouse wheel to zoom in and out.
4. Click the Enable Digital Zoom icon a second time to end zooming and return to the default view.

PTZ CONTROLS

Click the PTZ Controls icon  to show keyboard-style pan/tilt/zoom controls. This icon is only available for cameras that support PTZ.

ALARM PAGE

Click the Alarm Page icon  to view alarms received from connected recorders.

PAUSE NOTIFICATION

Click the Pause Notification icon  to override the current alarm display option and to prevent the forced display of the alarm page.

Search

The Search tab allows you to search for recorded video on specific cameras.

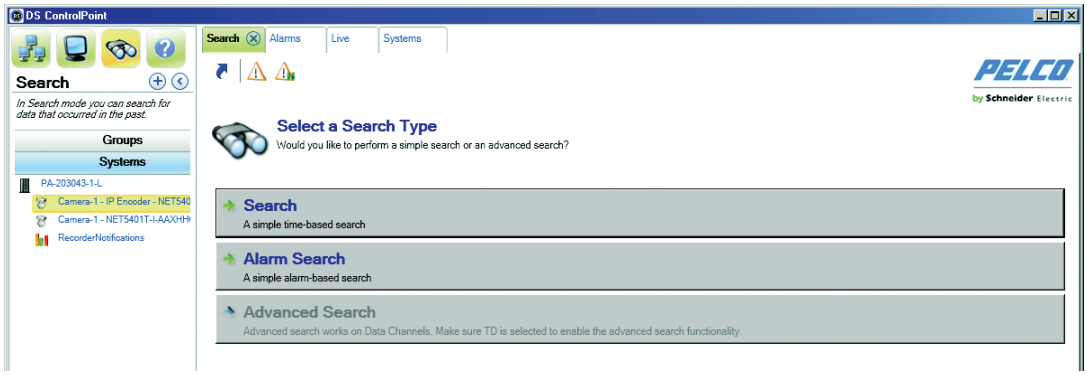


Figure 34. Search Tab

What is displayed on the Search tab depends on the camera type: either a non-DS camera or a DS camera. If the video of a non-DS camera is selected to be searched, the Search page will look similar to Figure 35.

LIVE AND PLAYBACK VIDEO SEARCH

NON-DS CAMERA SEARCH

Perform the following steps to search recorded video on a non-DS camera:

1. Click the Search icon to open the Modify Search tab.
2. Drag and drop cameras from the navigation pane into the video panes.
3. Enter the Start Time and End Time for the search, and then click the Next button.

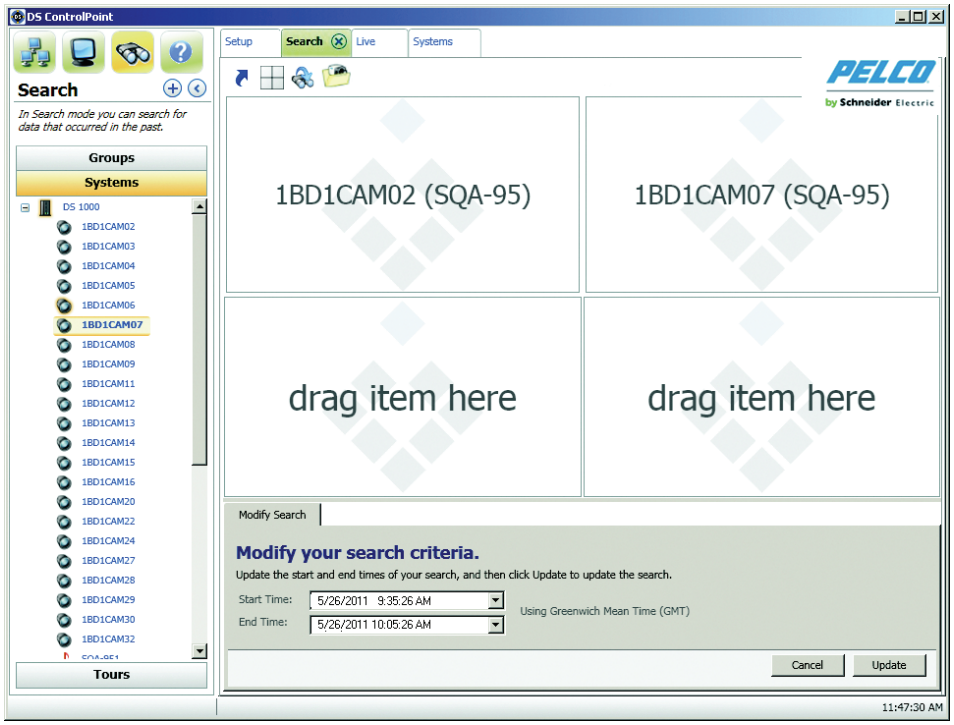


Figure 35. Non-DS Camera Search Page

Recorded video from the selected cameras and time range is played back starting from the beginning of the increment. The status bar in the bottom-right corner of the window indicates the progress of the video. You can control the video playback parameters with the Playback Bar. The Playback Bar, located at the top of the window, consists of nine buttons (refer to Figure 36). To view the function of a button, place your mouse pointer over the button. Also, click the status bar or drag the slider left or right to quickly move through the video.



Figure 36. Playback Bar

NOTE: The function of the scrubbing/playback slider is different for DS and DX products. For DS products, video continuously changes in the video frame as the slider is moved. For DX products, the video does not visibly change as the slider is moved. Once the slider has stopped moving, the video will change to match the stopping point of the slider.

DS CAMERA SEARCH

If the video of a DS camera is to be searched and a DS camera has been selected and dropped into one of the video panes, the Search page will look similar to Figure 37.

Perform the following steps to search for recorded video on a DS camera:

1. Click the Search icon  to open the Modify Search tab.
2. Drag a DS camera from the navigation pane into a video pane. The Modify Search tab changes to a graph.

   NOTE: You can double-click in a streaming video pane to change from a 2 x 2 layout to a single layout. Double-click the video pane again to return to a 2 x 2 layout.

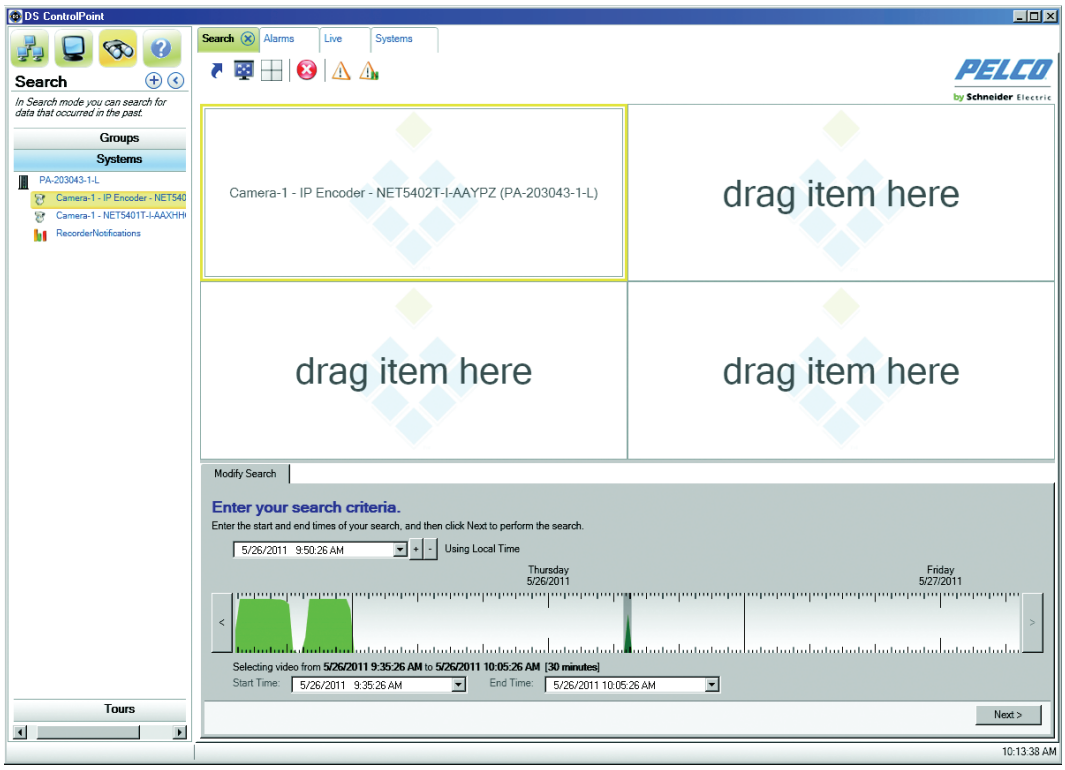


Figure 37. DS Camera Search Page

The search grid for DS cameras (refer to Figure 38 on page 36) is a representation of video frames. A maximum of 400,000 video frames can be represented by the grid. Use the mouse pointer to select a range of grid marks, which will indicate (by gray highlight) the range of video frames to be searched.

There are four colors for the peaks and ridges within the search grid, and each color represents one of the following video states:

Red: Alarm video

Blue: Motion video

Yellow: Event video

Green: All other video

Use the following methods to enter your search criteria:

- Use the mouse wheel or the Plus (+) and Minus (–) buttons located in the Modify Search tab to zoom in and out the graph.
- Click the arrows located on the left and right sides of the graph to cycle through the time range of the video frames (refer to Figure 38).
- Click the date and time drop-down calendar to adjust the date and time of the search.

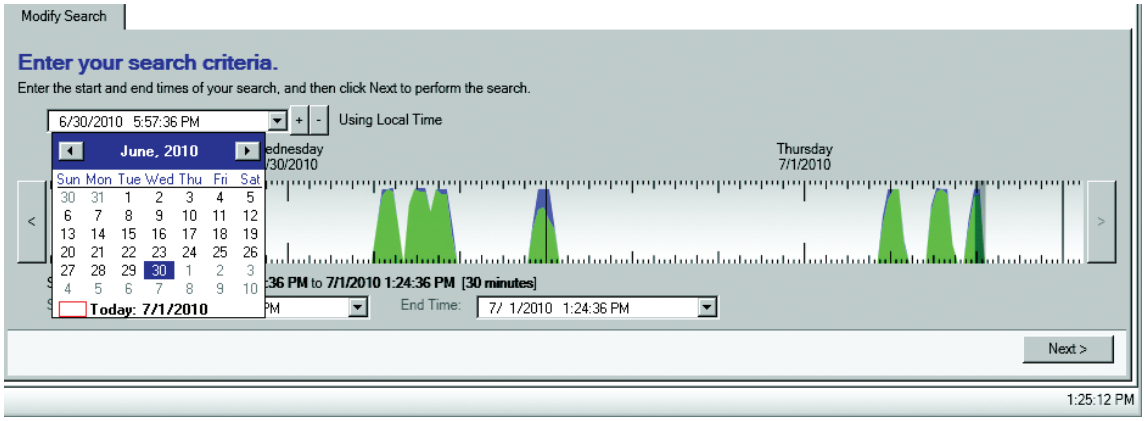


Figure 38. Search Using Calendar or Plus/Minus Buttons

- You can also click the Start Time and End Time drop down calendars below the graph to adjust the date for the search. The time can also be adjusted by highlighting and typing in the desired start and end time.

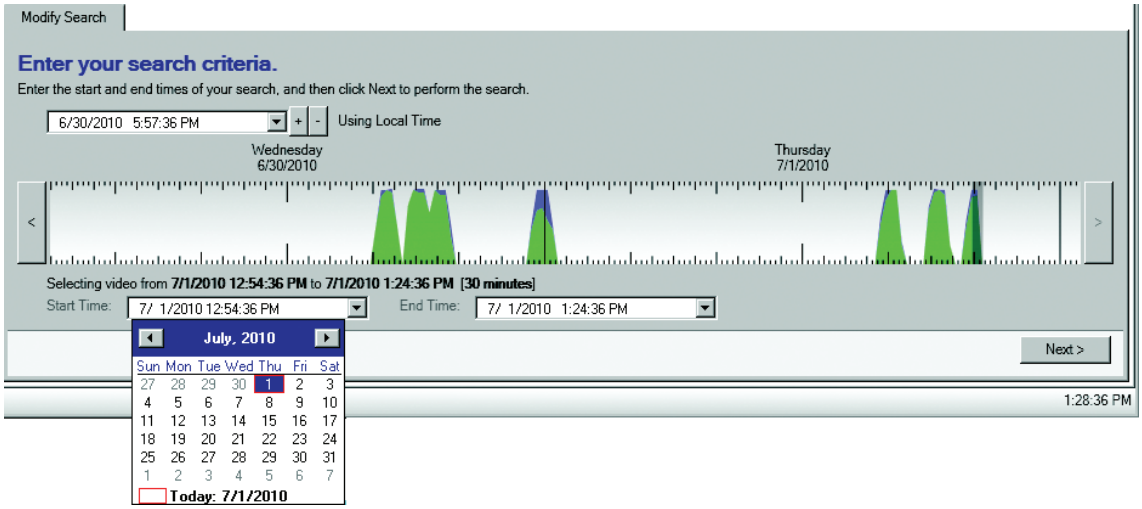


Figure 39. DS Camera Search Using Start and End Time Boxes

AUTHENTICATE SAMPLES

To verify that the video displayed has not been corrupted, click the Authenticate Samples icon . A progress bar indicates how much time is required to complete the authentication. To end the process before it is complete, click the Cancel button.

FILTER SAMPLES

To search for video that displays only motion or alarm, click the Filter Samples icon , select Motion or Alarm, and then click the OK button.

ALARM SEARCH

The Alarm Search page allows you to perform simple alarm-based searches.

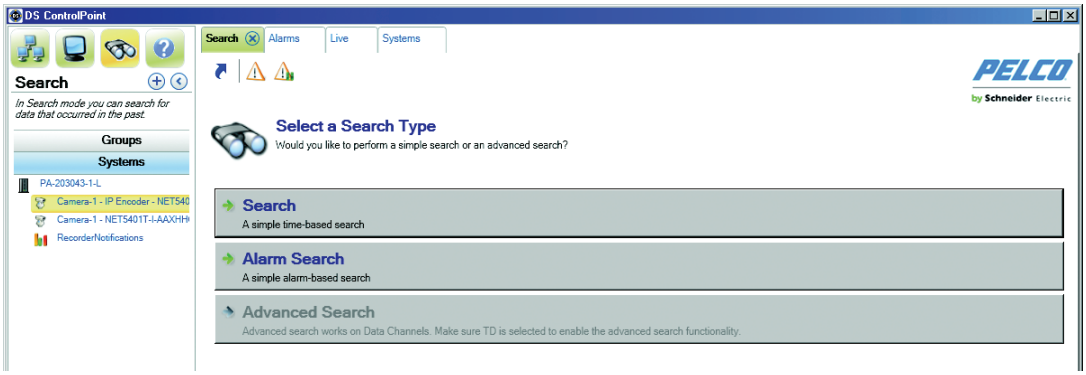


Figure 40. Alarm Search

To search for alarm-based events:

1. Select the Search icon, and then click Alarm Search. A Search Options screen appears (refer to Figure 41).
2. Set the alarm duration by selecting the date and time from the From and To lists.
3. Type a description in the Event Description box.
4. Click the Show Alarms button. A list of event alarms appears for the specified time frame.

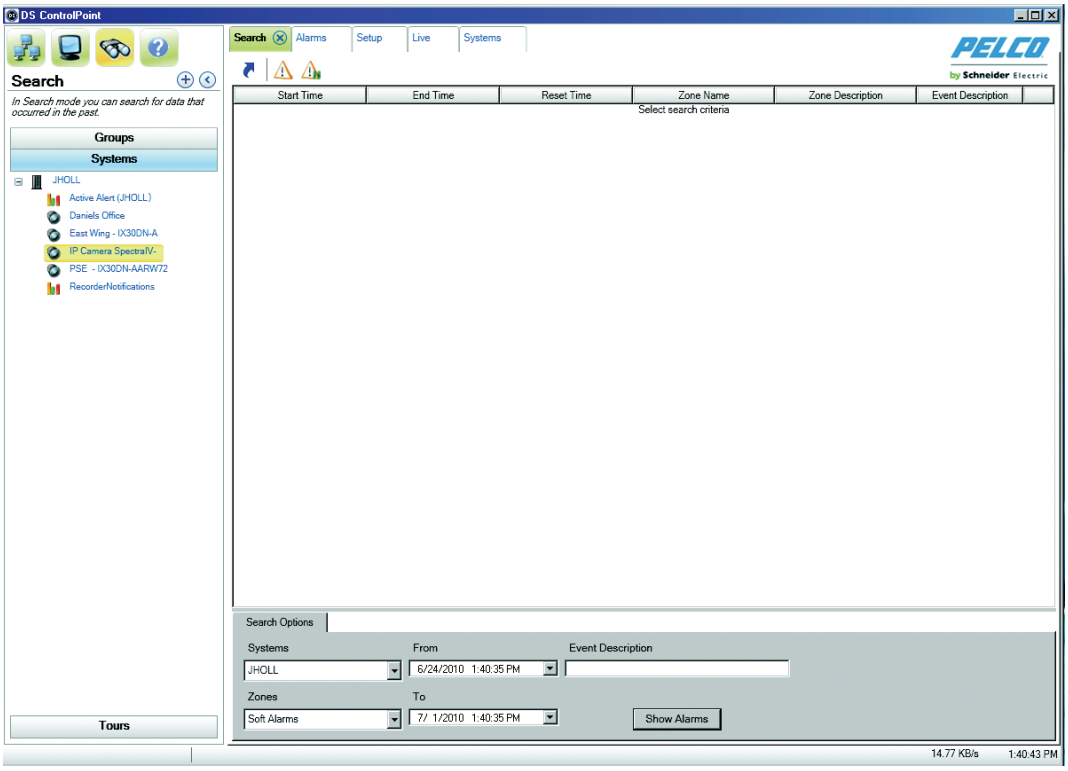


Figure 41. Alarm Search Screen

5. Click the "X" on the Search tab to close the Alarm Search screen and return to the Setup page.

ADVANCED SEARCH (DS DataPoint)

DS DataPoint is an application integrated with DS ControlPoint that allows you to receive and analyze transactional data (TD), such as video analytics, and information from devices, such as cash registers and ATMs.

NOTE: To use DS DataPoint, you must be connected to a DVMS with DS DataPoint software installed. When you add the system using DS ControlPoint, you must select the DS DataPoint Server check box (refer to Figure 10 on page 13). All systems identified as DS DataPoint Servers contain a DS DataPoint icon in the DP column of the Connection Management page.

To run an advanced search, complete the following steps:

1. Click the Search icon, and then click the Advanced Search button. This opens the Advanced Search Setup window (refer to Figure 42). The Advanced Search tab allows you to search for data and video from integrated devices or video analytics events.
2. Drag a data channel from the navigation pane into the output window. This opens a tab related to the type of data channel selected:
   - For Active Alert searches, enter a time/date range, event time, event type, and camera name. Enter a severity range, whether you want alarmed events, an object type, and zone information.
   - For Fastlane scale searches, enter a time/date range, and then select a series of occurrences. To do this, click the Any option beside each desired parameter and select a transaction. Then click the equal sign (=) and select an operator. Click the Add button to add parameters, or click the Or button to add separate occurrences.
   - For iOmniscient searches, enter a time/date range, event time, event type, and camera name. Then enter alarmed events, count range, side of area, and direction.
3. Click the Next button.

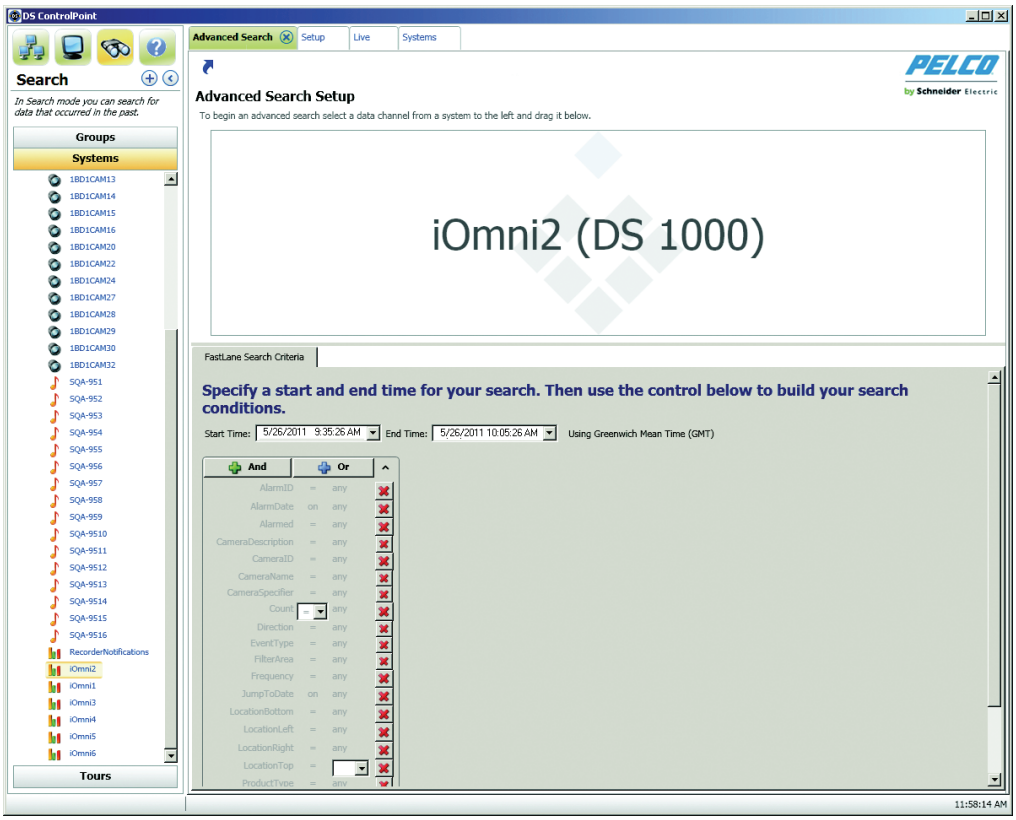


Figure 42. Advanced Search Tab

A results window opens, which contains a list of events that meet the search criteria. To view video of the event (if applicable), click the View Associated Video icon, or right-click the result and select View Associated Video from the menu.

NOTE: The options available in the drop-down menus vary widely depending on your device configuration. For information about configuring devices, refer to the manufacturer's documentation.

EXPORT

DS ControlPoint allows you to export both recorded video and individual captured images to the client computer's hard drive or other connected media.

Table C. Search Page Icons

	Modify Search
	Export
	Authenticate Samples
	Print
	Filter Samples

EXPORTING TO A NON-CD/DVD LOCATION

To export video included from a search result to a location on your hard drive (non-CD/DVD), complete the following steps:

1. Click the Export icon (refer to Table C).
2. On the Export tab, select Video and click the Next button.
3. Select XPA (if not selected) and click the Next button.

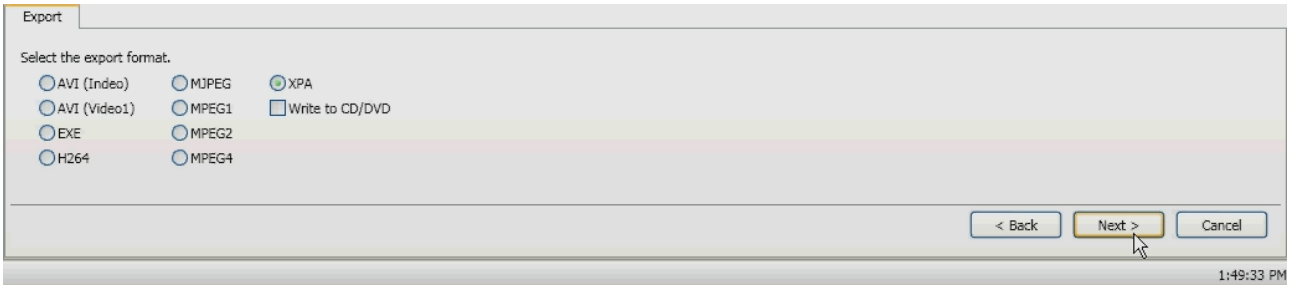


Figure 43. Non-CD/DVD Export Format

4. Click the Browse button to select the name and location for the export file, and then click the Next button.
5. Select the streams to export. In this tab, you can select Select All or Clear All, and then click the Next button.
6. Use the status bar slider to select the beginning of the search result that you want to export, and then click the Next button.
7. Use the status bar slider to select the end of the search result that you want to export, and then click the Next button.

The export begins and the status bar shows the progress of the export. Once the export is completed, the search option screen will reappear.

EXPORTING TO A CD/DVD

NOTE: Before exporting to a CD/DVD, make sure you install the Microsoft® Windows® Feature Pack for Storage 1.0, which includes Image Mastering API version 2.0 (IMAPI2). To install the feature pack, go to TechTip.

To export video included from a search result to a CD/DVD, complete the following steps:

1. Click the Export icon (refer to Figure 44).
2. On the Export tab, select Video and click the Next button.
3. Select the export format and click the Next button. You can select AVI (Indeo), AVI (Video1), EXE (self-extracting executable), H264, MJPEG, MPEG1, MPEG2, MPEG4, or XPA.

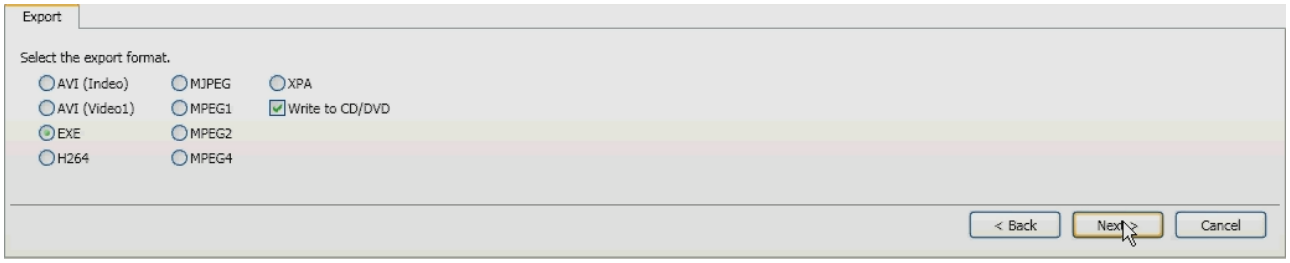


Figure 44. Export Formats

4. Select "Write to CD/DVD," and click the Next button.
5. Click the Browse button to select the name and location for the export file, and then click the Next button.
6. Select the streams to export. In this tab, you can select Select All or Clear All, and then click the Next button.
7. Use the status bar slider to select the beginning of the search result that you want to export, and then click the Next button.
8. Use the status bar slider to select the end of the search result that you want to export, and then click the Next button.

NOTE: If there is no CD or DVD in the disc drive, a message will appear asking if you would like to retry writing to the CD/DVD.

The export begins and the status bar shows the progress of the export. Once the export is completed, the search option screen will reappear.

EXPORT A SINGLE IMAGE

1. Click the Export icon.
2. Select Image and click the Next button.
3. Use the status bar slider to display the image.
4. Select Include Video Text Overlay and Best Fit, if desired.
5. Click the OK button to display the Save As window.
6. Type a file name, select the location where you want to save the file, and click the Save button.

PTZ Cameras

DS ControlPoint provides features for pan/tilt/zoom (PTZ) cameras that allow you to control and configure PTZ-enabled cameras (by way of presets) through the viewing area.

NOTE: To control PTZ functions on Digital Sentry systems when connected through DS ControlPoint, you must be assigned the Configuration Manager permission. This permission must be assigned using DS Admin. For more information, refer to the Integral Digital Sentry Operation/ Configuration manual.

To view video or data from a PTZ camera in a video pane:

1. From the Live page, click the Layout icon  and select the configuration from the menu. To close the configuration menu, press the <Esc> key.
2. Select the Systems section of the navigation pane, and expand the tree until you see the appropriate PTZ-enabled camera.
3. Drag the camera to a video pane. The PTZ icons appear with the displayed video.

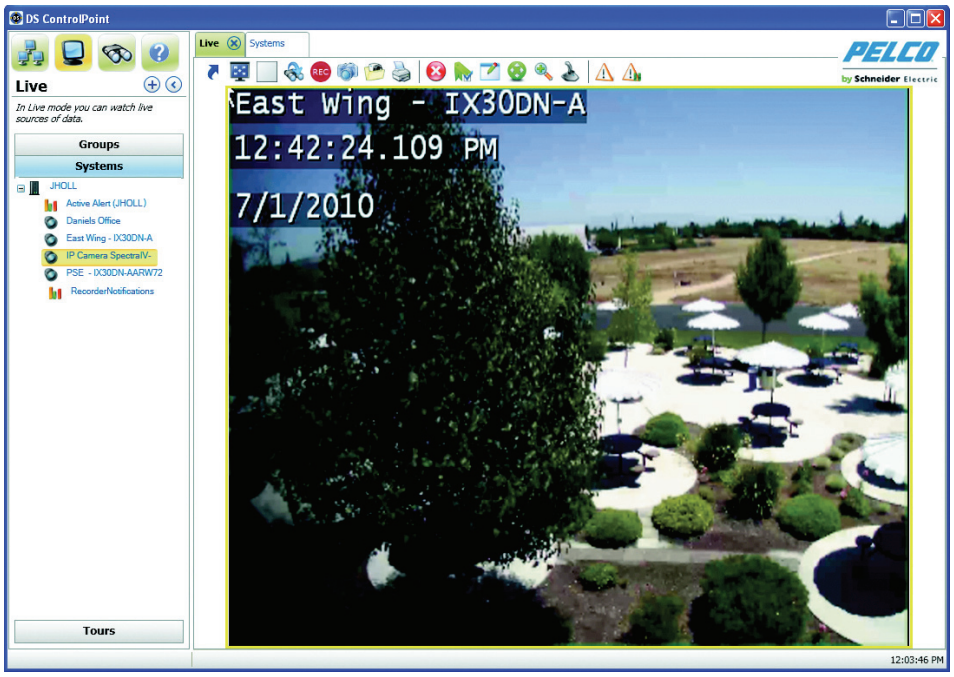


Figure 45. Live Page with PTZ-Enabled Video

4. If necessary, repeat these steps until video or data from all desired PTZ-enabled cameras are displayed in the video panes.

ENABLE AND DISABLE PTZ

The Enable PTZ feature allows you to use your mouse to control the pan, tilt, and zoom functionality of a PTZ camera. To enable PTZ, perform the following steps:

1. Click the Enable PTZ icon . The icon turns red.
2. Position the mouse pointer on the video, and then click and hold the left mouse button until the pointer changes to an arrow. Move the mouse to pan and tilt the camera, which changes the view as the camera moves.
3. To zoom the camera, move the mouse pointer until it changes to a spyglass. Then click and hold the mouse button to zoom in (+ spyglass) and out (– spyglass).
4. To disable PTZ, click the red PTZ icon .

PTZ CONTROLS

Click the PTZ Controls icon  to display the PTZ Control tab below the PTZ video frame (refer to Figure 46). The PTZ Controls tab provides tools for more precise control of the PTZ-enabled cameras that are currently displaying video.

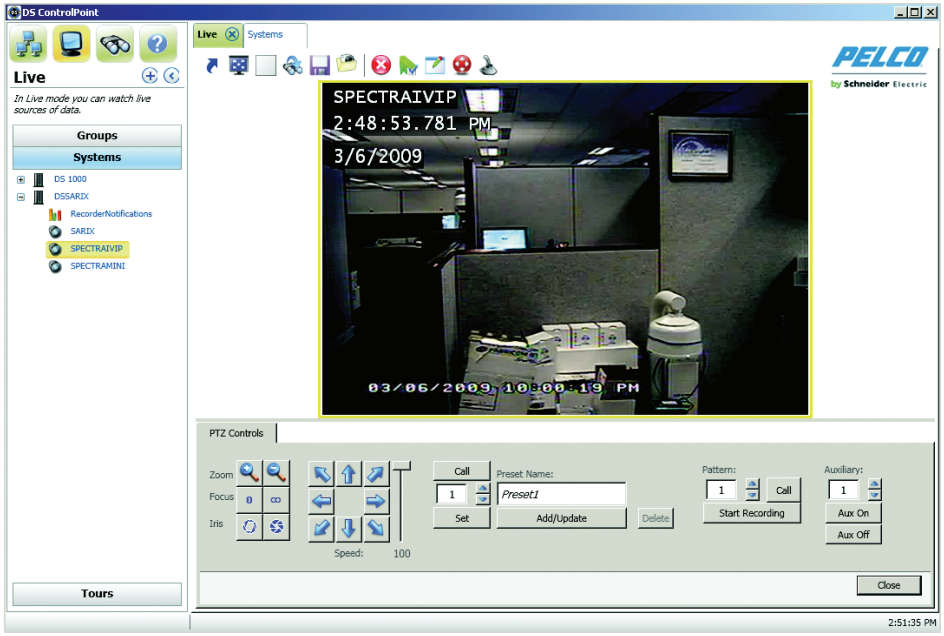


Figure 46. PTZ-Enabled Video with PTZ Controls Tab

CAMERA LENS

Lens controls adjust the zoom, focus, and iris of PTZ-enabled cameras.



Figure 47. Lens Controls on PTZ Controls Tab

To control the zoom, focus, and iris:

Zoom: Click the plus (+) and minus (–) buttons to zoom in and zoom out of the currently displayed video frame (if the camera has zoom capability).

Focus: Click the Focus buttons to adjust the sharpness of the currently displayed video frame.

Iris: Click the Iris buttons to adjust the opening of the camera iris, which increases or decreases the brightness and contrast of the displayed video.

PAN/TILT MOVEMENT AND SPEED

Pan/tilt movement and speed can be adjusted using the directional buttons and slider.



Figure 48. Directional Controls on PTZ Controls Tab

To adjust the pan/tilt:

1. Click a directional button to move the camera in the direction indicated by the arrow.
2. Click the middle button to center the camera.
3. Click and hold the middle button to control the camera direction (similar to joystick control).
4. Move the speed adjustment slider up and down to increase or decrease the pan/tilt speed.

   NOTE: PTZ speed cannot be adjusted when cameras are connected to a DX4100, DX4500, or DX4600 unit.

CAMERA PRESETS

Preset controls configure the camera view to predesignated viewing areas. Once configured, the camera instantly moves to the predesignated view with a click of a button (refer to Figure 49). Preset control features are as follows:

Call: Click this button to move the camera to the predesignated view, as displayed in the Preset Name box.

Up/Down Arrows: Click this button to scroll through the preset numbers. If a number has already been assigned to a name, the name appears in the Preset Name box.

Set: Click this button to save the preset name and number to a view.

Preset Names: Click this button to configure a name to a specified number for a desired view. If a name has already been assigned to a number, the name appears in this box.

Add/Update: Click this button to change configured preset information: camera view, preset name, and number.



Figure 49. Preset Controls on PTZ Controls Tab

To configure and call up camera presets:

1. Use the directional buttons to move the camera to the view you want to save as a preset.
2. Type a name for the preset (for example: Preset 1) in the Preset Names box.
3. Use the up and down arrows to display the desired number for the Preset Name.
4. Click the Set button to save the preset name and number to the desired view.
5. Click the Call button to move the camera to the predesignated view.

PATTERN

Patterns allow you to run a PTZ camera through an automated tour of camera presets.

To configure a pattern:

1. Click the up and down arrows to display the desired number for the Pattern.
2. Click the Start Recording button (refer to Figure 50).
3. Call each of the presets that you want to include in the pattern, as described in *Camera Presets* on page 44.

   NOTE: You can also pan, tilt, and zoom using the PTZ controls.
4. Click the Stop Recording button.
5. Click the Call button to run the pattern.



Figure 50. Pattern Controls on PTZ Controls Tab

AUXILIARY

The Aux On and Aux Off buttons (refer to Figure 51) allow you to control auxiliary functions of a PTZ camera, such as alarms and wipers.

To control auxiliary functions:

1. Click the up and down arrows to display the auxiliary number. The function controlled by each auxiliary number varies by camera; refer to the camera's documentation for details.
2. To activate the auxiliary function, click Aux On.
3. To deactivate the auxiliary function, click Aux Off.



Figure 51. Auxiliary Controls on PTZ Controls Tab

PRESET FAVORITES

Click the Preset Favorites icon to display a list of the saved Preset Names and their corresponding numbers. Click the icon a second time to close the window.

Appendixes

APPENDIX A: DS CONTROLPOINT FEATURE SET FOR DS AND DX SERIES PRODUCTS

Table D. Supported Feature Set *(1 of 2)*

SUPPORTED FEATURE SET	DS	DX8000/DX8100	DX4700/DX4800	DX4500/DX4600	DX4100
Connections					
Log on to single system	•	•	•	•	•
Log on to multiple systems	•	•	•	•	•
Get camera names	•	•	•	•	•
Same-user login from multiple clients	•	—	—	—	—
Live					
Single and multiple cameras	•	•	•	•	•
View OSD items (camera name, time, and so forth)	•	•	•	•	•
PTZ	•	•	•	• (Speed setting does not apply)	• (Speed setting does not apply)
Digital zoom	•	•	•	•	•
Motion borders	•	•	•	•	•
Alarm borders	•	•	•	•	•
Manual record borders	•	•	•	•	•
Continuous record borders	•	•	•	•	•
Audio playback	•	—	—	—	—
Support server local time	•	•	•	•	•
Support GMT time	•	•	•	•	•
Support client time	•	•	•	•	•
Groups					
Local groups	•	•	•	•	•
System groups	•	—	—	—	—
Tours					
Tours	•	•	•	•	•
Search					
Audio playback	•	—	—	—	—
Multiple search tabs	•	—	—	—	—
Motion borders	•	—	—	—	—
Alarm borders	•	—	—	—	—
Manual record borders	•	—	—	—	—
Continuous record borders	•	—	—	—	—
Authentication	•	—	—	—	—
Included samples filter	•	—	—	—	—
Smart search	•	—	—	—	—

Table D. Supported Feature Set *(2 of 2)*

SUPPORTED FEATURE SET	DS	DX8000/DX8100	DX4700/DX4800	DX4500/DX4600	DX4100
View OSD items (camera name, time, and so forth)	•	•	•	•	•
Quick review	•	•	•	•	•
Digital zoom	•	•	•	•	•
Play every frame	•				
Multispeed playback	•	8X maximum	8X maximum	6X maximum	6X maximum
Support server local time	•	•	•	•	•
Support GMT time	•	•	•	•	•
Support client time	•	•	•	•	•
Presearch grid	•	—	—	—	—
Export					
Native compression support	•	•	•	•	•
Audio playback	•	—	—	—	—
Standalone Media playback	•	•	•	•	•
AVI EXE XPA	•	•	•	•	•
Miscellaneous					
Simultaneous live and search tabs	•	•	•	•	•
KBD300A	•	•	•	•	•
KDB5000	•	—	—	—	•
Popup on alarm	•	•	•	•	•
DSConneX					
Manual recording	•	•	•	—	—
Recorder events	•	—	—	—	—

APPENDIX B: USING A KBD300A KEYBOARD WITH DS CONTROLPOINT

Pelco's KBD300A keyboards can be used to control certain functions of the DS ControlPoint software. To use a KBD300A with DS ControlPoint, your hardware and software must meet the following minimum requirements:

- KBD300A version 5.7 or later
- DS ControlPoint version 6.7.1.99 or later
- KBDKIT with power supply
- PV140 RS-422 to RS-232 converter
- Available serial port (COM1) on the computer running DS ControlPoint

INSTALLING THE KBD300A KEYBOARD

The KBD300A keyboard is wired directly to a maximum of 16 receivers. You can communicate using Pelco P or Pelco D protocol. Direct Mode installation/operation is not the same as CM6700 mode or CM6800 mode installation/operation.

NOTE: A remote keyboard wiring kit (KBDKIT or KBDKIT-X) is required to use the keyboard in Direct Mode. The KBDKIT consists of two RJ-45 wall blocks and a 120 VAC to 12 VAC transformer. The KBDKIT-X is for 230 VAC. Only one wall block is required for this application.

Use one of the following setup options to install the KBD300A keyboard.

Setup Option 1: RS-422 Connections

To connect the KBD300A and PV140 converter to the computer running DS ControlPoint:

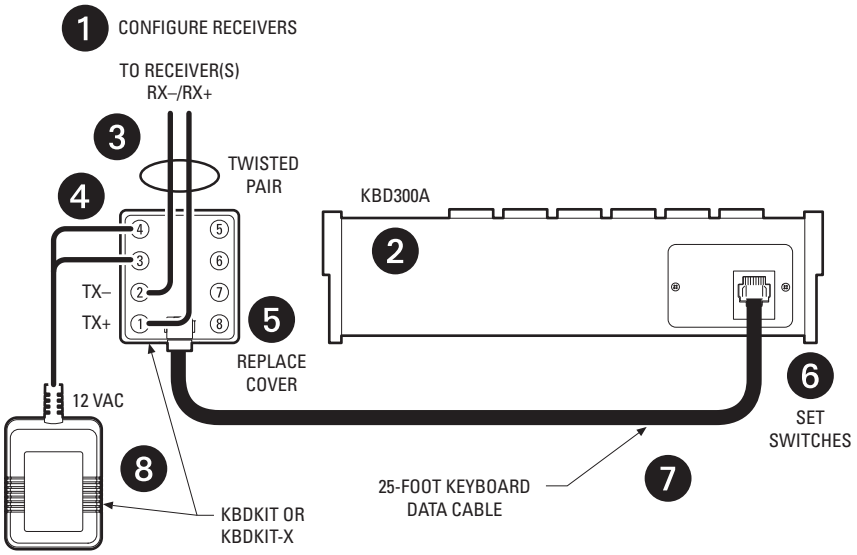


Figure 52. RS-422 Connections

1. Make sure all receivers are configured to communicate using either Pelco P or Pelco D protocol, and ensure that each receiver has a unique address. Refer to your receiver manual for switch settings.
2. Decide on a suitable location for the keyboard and wall block. The keyboard must be within 7.6 meters (25 feet) of the wall block. The wall block must be within 1.8 meters (6 feet) of the nearest suitable electrical outlet.
3. Remove the cover from the KBDKIT or KBDKIT-X wall block.
4. Connect the transmission wires from the receiver (Spectra® or Esprit® system) to the wall block.
   a. Connect RX+ from the receiver/driver to TX+ (terminal 1) on the wall block.
   b. Connect RX– from the receiver/driver to TX– (terminal 2) on the wall block.

   NOTE: Communication to the keyboards is RS-422. The maximum cable distance for RS-422 communication over a 24-gauge wire is 1,219 meters (4,000 feet). It is recommended that you use shielded twisted pair cable that meets or exceeds the basic requirements for EIA RS-422 applications.

5. At the wall block, wire the transformer to pins 3 and 4. Polarity is not important.
6. Replace the cover on the wall block. A double-sided sticky pad is provided to mount the wall block. Secure the wall block to a suitable surface.
7. Set the keyboard DIP switches to the Pelco D or Pelco P protocol. For DIP switch settings, refer to the KBD300A Operation manual.
8. Connect the keyboard data cable.
9. Connect the KBDKIT or KBDKIT-X transformer to a suitable outlet. The LED display shows number 1, which is the default camera number.
10. Test for proper operation (refer to the programming and operation sections of the KBD300A Universal Keyboard Installation/Operation manual).

Setup Option 2: Using the USB Adapter

1. Select the Device Manager under Computer Management.

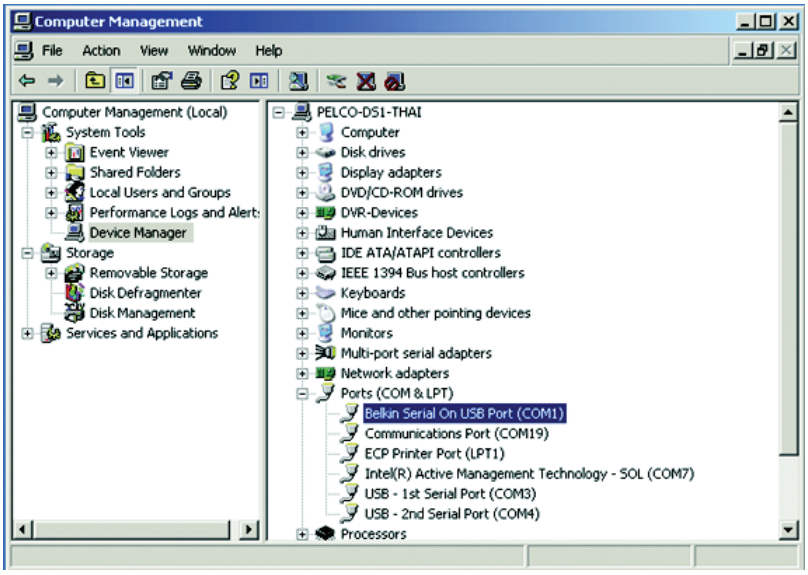


Figure 53. Selecting the Device Manager

2. Right-click USB Serial Port, and then select Properties. The USB Serial Port (COM1) Properties dialog box appears (refer to Figure 54).

   NOTE: The USB brand name should appear in the Ports list if it is installed correctly. Refer to the USB manufacturer for driver compatibility with Microsoft® Windows®.

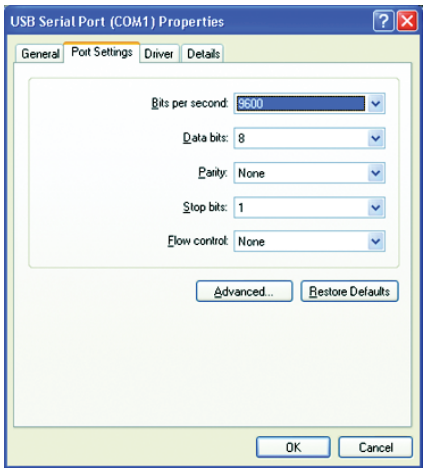


Figure 54. USB Serial Port (COM1) Properties Dialog Box

3. Configure the port settings, and then click the Advanced button. The "Advanced Settings for the COM1" dialog box appears.

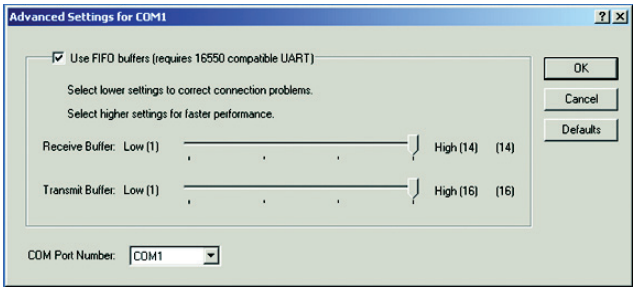


Figure 55. Advanced Settings for COM1 Dialog Box

4. Change the COM Port Number for the USB port to COM1, and then click the OK button.
5. Click the OK button in the USB Serial Port (COM1) Properties dialog box to complete the steps.

NOTES:

- Set the KBD300A dip switches #7 and #8 to ON for ASCII Mode.
- Set the port settings to the following:
  - Baud: 9600
  - 8 data bits
  - Odd parity
  - 1 stop bit

CONTROLLING DS CONTROLPOINT WITH THE KBD300A

DS ControlPoint automatically detects the KBD300A on startup. To use the KBD300A to control DS ControlPoint functionality:

1. Open DS ControlPoint.
2. Connect to a system.
3. Select Live view.

KBD300A OPERATING FUNCTIONS

The following DS ControlPoint functions can be controlled using the KBD300A:

Table E. KBD300A and DS ControlPoint Functions

Keyboard Function	Corresponding DS Controlpoint Function
SHIFT+ZOOM	Full-screen mode
SHIFT+F2/OFF	View video in a 1 x 1 configuration
SHIFT+F3/MOM	View video in a 2 x 2 configuration
SHIFT+AUX ON	View video in a 3 x 3 configuration
SHIFT+AUX OFF	View video in a 4 x 4 configuration
ACK	Enter PTZ mode
ACK+joystick	Control pan, tilt, and zoom in a selected video pane
NEAR and FAR	Focus control
OPEN and CLOSE	Iris control
Keypad and PRESET	Call camera preset
CAM	Enter video pane navigation mode
CAM+joystick	Navigate video panes
MON	Associate a selected camera to a selected video pane
MON+keypad	Associate a camera to a specific video pane (numbered left to right, top to bottom)
1 + hold PRESET	Programs a preset 1
1 + PRESET	Calls up preset 1
1 + hold PATTERN	Programs a pattern 1
1 + PATTERN	Calls up pattern 1
NEXT	Calls up the next camera
PREV	Calls up the previous camera

APPENDIX C: USING A KBD5000 KEYBOARD WITH DS CONTROLPOINT

Pelco's KBD5000 keyboard can be used to control certain functions of the DS ControlPoint software. The KBD5000 is configured with three control modules that are installed in receptacles on the keyboard base. Refer to the KBD5000 Operation manual for detailed information.

NOTES:

- You must install DS ControlPoint version 7.0.41 or later.
- Windows virtually assigns a COM port so no Windows configuration is required.
- If required, contact Pelco Product Support (1-800-289-9100) to download the latest version of DS ControlPoint.

The following three modules are included with the KBD5000 base:

- A variable speed, vector-solving joystick with keys for lens, iris, and focus control. The barrel-type joystick provides precise pan and tilt control of fixed speed and variable speed positioning systems. Twisting the joystick zooms the lens in and out.
- A jog dial and shuttle ring for playback and menu navigation. The jog/shuttle contains four illuminated function keys. The color of each key corresponds to the color of its icon displayed on the monitors linked to the user interface. This intuitive color-coded design lets users navigate the on-screen menus without looking down to read keyboard text labels.
- A keypad for camera and monitor control. Keys can be used to select cameras and monitors and the number of cameras to view.

INSTALLING THE KBD5000

1. Attach the USB Type B-to-Type A cable from the USB connector on the rear of the KBD5000 to the USB connector on the computer.
2. Connect the power supply cord to the rear of the keyboard, and tighten the connector barrel.
3. Connect the other end of the power cord to a power supply. When power is applied, lights on the module illuminate.

CONTROLLING DS CONTROLPOINT WITH THE KBD5000

DS ControlPoint automatically detects the KBD5000 on startup. To use the KBD5000 to control DS ControlPoint functionality:

1. Open DS ControlPoint by clicking the DS ControlPoint icon on your desktop or by locating the software in the Start menu.
2. Connect to a system in the Setup page.
3. Click the Live tab.

NOTE: If your sites are not autoconnect, you will need to use your mouse to connect to your sites.

KBD5000 FEATURES

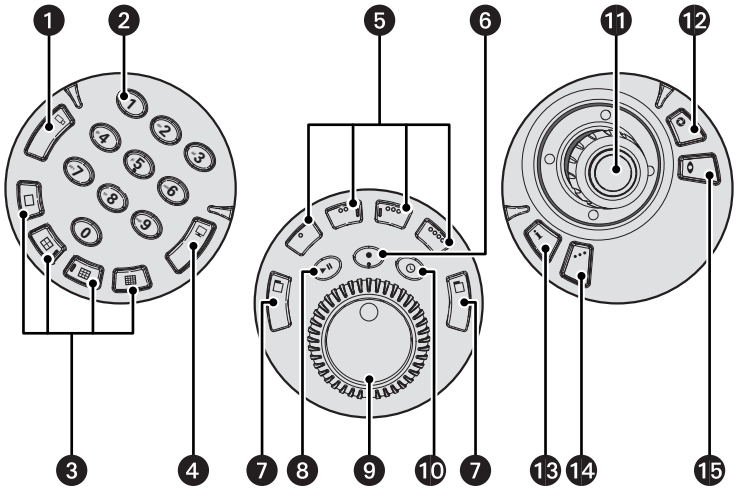


Figure 56. KBD5000 Features

1. Camera Selection
2. Keypad (numbers 0 to 9)
3. Multiple View
4. Monitor Selection
5. Dyn1 and Dyn2: Configures and calls patterns
   Dyn 3 and Dyn4: Configures and calls presets
6. Quick Review
7. Next/Previous Cameras
8. Play/Pause Video
9. Jog/Shuttle
10. Live Playback Mode
11. Joystick with Trigger
12. Iris (Open/Close)
13. Help
14. Aux (Auxiliary): Not used with DS ControlPoint
15. Focus (Near/Far)

KBD500 OPERATING FUNCTIONS

The KBD5000 keyboard performs best in live and playback modes.

Table F. KBD5000 Menu Operations *(1 of 2)*

Joystick Module	
Key	**Description**
	**Joystick:** Used in conjunction with the Iris and Focus buttons.
	**Joystick trigger:** Activates and exits PTZ mode.
	**Iris button:** Changes the light settings. In PTZ mode, press the Iris button, and then turn the joystick left or right to adjust the iris.
	**Focus button:** **Adjust the focus:** In PTZ mode, press the Focus button, and then turn the joystick left or right to adjust the focus. **Zoom In/Out:** In PTZ mode, turn the joystick left or right without the Iris/Focus key illuminated.
	**Help button:** Displays or hides the KBD5000 online Help.
	**Alphanumeric keypad:** In PTZ mode, the entered number can be a pattern or preset. In navigation mode, the entered number can be a camera, monitor, channel, time, or volume.
	**Camera selection button:** Calls up the Select Camera dialog box with a list of cameras.
	**Multiple view buttons:** Changes the currently selected video pane to one of the following screen layouts: 1 x 1, 2 x 2, 3 x 3, and 4 x 4 layouts. All other layouts must be configured with the mouse.
Jog/Shuttle Module	
Key	**Description**
	**Next/previous camera buttons:** Press the right or left menu buttons to cycle to the next or previous camera.
	**Shuttle (outer ring):** Turn the shuttle to the left to rewind video at a variable speed. Turn the shuttle to the right to forward video at a variable speed.
	**Jog (inner dial):** Turn the Jog left to step the video back. Turn the Jog right to step the video forward.
	**Dyn1 and Dyn2:** Configures and calls patterns. 1. Enter PTZ mode (Jsel). 2. Press a number, and then press Dyn1 (green). 3. Move the joystick to create the pattern. 4. Press the same number, and then press Dyn2 (red) to save and start the pattern. When a pattern is saved, you can call it up by pressing a number, and then pressing Dyn2.
	**Dyn3 and Dyn4:** Configures and calls patterns. 1. Enter PTZ mode (Jsel). 2. Navigate to your preset destination. 3. Press a number, and then press Dyn3 (green) to save the preset. When a preset is saved, you can call it up by pressing a number, and then pressing Dyn4 (red).
	**Play/pause video button:** Plays or pauses recorded video. Press the Play/Pause button to play a recorded video. Press the Play/Pause button again to pause recorded video.

Table F. KBD5000 Menu Operations *(2 of 2)*

Joystick Module	
Key	**Description**
	**Quick review:** • Searches for all the current live streams for the last 60 seconds. • Guides you to the Search tab. • Removes a stream. Move to the stream and then press 0 (zero) and the CAM button.
	**Live Mode:** Enters Live mode and guides you to the Live tab.
	**CAM/MON (camera/monitor):** 1. From Live mode, press the Camera button. 2. Highlight a camera. 3. Press the MON button to display the stream. 4. Press 0 (zero) plus CAM to remove the camera.

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
C3674M	10/08	Original version.
C3674M-A	3/09	Added Appendix B. Also added patterns and auxiliary sections to *PTZ Controls*.
C3674M-B	11/09	Added Language Settings, Time Format, Alarm Popup, Bandwidth Control, and Digital Sentry Reports information. Also revised the Export section of Table B.
C3674M-C	2/10	Revised document to ensure that all final changes are included. The -B version may not reflect current information.
C3674M-D	3/10	Added new Recording and Exporting features. Updated the supported feature set table.
C3674M-E	5/10	Added new Alarm Search section, Alarm Popup options, and Snapshot section.
C3674M-F	7/10	Modified the Setup page to combine the general settings under the Application Settings tab. Also added a new Configuring Analog Outputs section.
C3674M-G	10/10	Added an Import Systems feature in Application Settings. Added information on managing numerous systems by the administrator in Connecting to a System. Added a Windows Authentication tab to the Add Systems tab. Modified information under Alarm Popup. Added new features to Digital Sentry Reporting. Updated the Live Page icons table. Modified the Supported Features table for PTZ.
C3674M-H	1/11	Added instructions on creating and listing custom fields in the Connection Management page. Also modified the General and Sync settings in the Application Settings dialog box, added a Troubleshooting section, and modified Appendix A.
C3674M-I	5/11	Added new features to Application Settings. Updated the Create Group icon. Added KBD5000 to the Appendix. Updated screen shots with the new Pelco logo.

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