



by **Schneider** Electric

O P E R A T I O N

Digital Sentry[®] DS ControlPoint

C3674M-L (6/15)

Contents

Description	8
Installing the Software	9
DS ControlPoint Overview	10
Operation	11
Setup	11
Locking Shared Setup Options	11
Application Settings	12
Manage Systems	16
System List	18
Connecting to a System	19
Adding Custom Fields	20
Updating Your Password	21
Filtering the Systems	21
Hiding the System List	21
Showing the System List	22
Troubleshooting the Systems	22
Working with Tours	23
Create a New Tour	23
Run and Pause a Tour	24
Alarm Popup	25
Playing Back Current Alarms	25
Configuring the Alarm Page Settings	26
Enabling Beep On Alarm	27
Exporting Pop-Up Alarms	28
Digital Sentry Reports	29
Updating DS ControlPoint Software	30
Configuring Analog Outputs	31
Live	32
Full Screen	33
Quick Review	34
Manual Record	34
Snapshot	35
Camera Groups	35
Printing Images from Video Panes	35
Entering a Motion Mask for Sarix Cameras	35
Video Pane Borders	36
Removing Video from a Window	36
Manage OSD Settings	36
Image Adjustments	37
Enable On-Screen Pan/Tilt/Zoom	37
Enable Digital Zoom	37
PTZ Controls	37
Alarm Page	37
Pause Notification	37
Search	38
Live and Playback Video Search	38
Non-DS Camera Search	38
DS Camera Search	40
DS Servers and DX8100 Series Systems Scan	42
Authenticate Samples	42
Filter Samples	42
Alarm Search	43
Acknowledging Serial Alarms	43
Installing the AlarmClear Service to Monitor COM1 Port	44

Monitoring Another COM Port	44
Configuring VideoServer	44
Configuring DS ControlPoint	44
Advanced Search (DS DataPoint)	45
Thumbnail Search	46
Export	47
Exporting to a Non-CD/DVD Location	47
Exporting to a CD/DVD	48
Export a Single Image	48
PTZ Cameras	49
Enable and Disable PTZ	49
PTZ Controls	50
Camera Lens	50
Pan/Tilt Movement and Speed	51
Camera Presets	51
Pattern	52
Auxiliary	52
Preset Favorites	52
Appendixes	53
Appendix A: DS ControlPoint Feature Set for DS and DX Series Products	53
Appendix B: Using a KBD300A Keyboard with DS ControlPoint	55
Editing <i>ControlPointCache.xml</i>	55
Installing the KBD300A Keyboard	55
Controlling DS ControlPoint with the KBD300A	57
KBD300A Operating Functions	58
Appendix C: Using a KBD5000 Keyboard with DS ControlPoint	59
Installing the KBD5000	59
Controlling DS ControlPoint with the KBD5000	59
KBD5000 Features	60
KBD5000 Operating Functions	61

List of Illustrations

1	Navigation Pane for Live Page	10
2	Setup Page	11
3	General Settings Dialog Box	12
4	Bandwidth Settings Dialog Box	13
5	Throttle Assistant	13
6	Sync Settings Dialog Box	14
7	Import Complete Dialog Box	14
8	Export Settings Dialog Box	15
9	Connection Management Page	16
10	Add System Tab	16
11	System Drop-Down Menu	19
12	Edit System Tab	19
13	Add or Edit System Settings Dialog Box	20
14	Password Update Dialog Box	21
15	Filtering the System List	21
16	Diagnostics Tab	22
17	Edit Tour Page	23
18	Add Tour Item Tab	24
19	Resume Tour and Pause Tour Icons	24
20	Playing Back Current Alarms	25
21	Alarm Popup Screen	26
22	Beep On Alarm Tab	27
23	Export Pop-Up Alarms Screen	28
24	Digital Sentry Reporting Dialog Box	29
25	Selecting Existing Systems	29
26	Configuring System Report Settings Dialog Box	30
27	Create Report Dialog Box	30
28	Analog Output Screen	31
29	Live Page	32
30	Customizing Recording	34
31	Create Group Tab	35
32	On-Screen Display Settings Window	36
33	Search Tab	38
34	Non-DS Camera Search Page	39
35	Playback Bar	40
36	DS Camera Search Page	40
37	Search Using Calendar or Plus/Minus Buttons	41
38	DS Camera Search Using Start and End Time Boxes	41
39	Scanning the Network for Systems	42
40	Alarm Search	43
41	Alarm Search Screen	43
42	Advanced Search Tab	45
43	Thumbnail Search Screen	46
44	Detailed View of Thumbnail Search Screen	47
45	Non-CD/DVD Export Format	47
46	Export Formats	48
47	Live Page with PTZ-Enabled Video	49
48	PTZ-Enabled Video with PTZ Controls Tab	50
49	Lens Controls on PTZ Controls Tab	50
50	Directional Controls on PTZ Controls Tab	51
51	Preset Controls on PTZ Controls Tab	51
52	Pattern Controls on PTZ Controls Tab	52
53	Auxiliary Controls on PTZ Controls Tab	52
54	RS-422 Connections	55
55	Selecting the Device Manager	56
56	USB Serial Port (COM1) Properties Dialog Box	57
57	Advanced Settings for COM1 Dialog Box	57
58	KBD5000 Features	60

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 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.

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 1) 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. To view camera properties, right-click on the desired camera in the system tree.

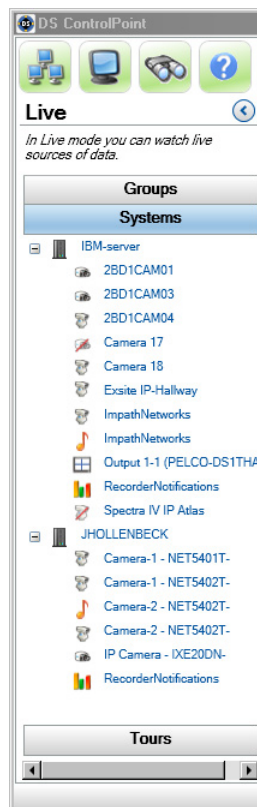



Figure 1. Navigation Pane for Live Page

Operation

SETUP

The Setup page (refer to Figure 2) 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 Digital Sentry 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.

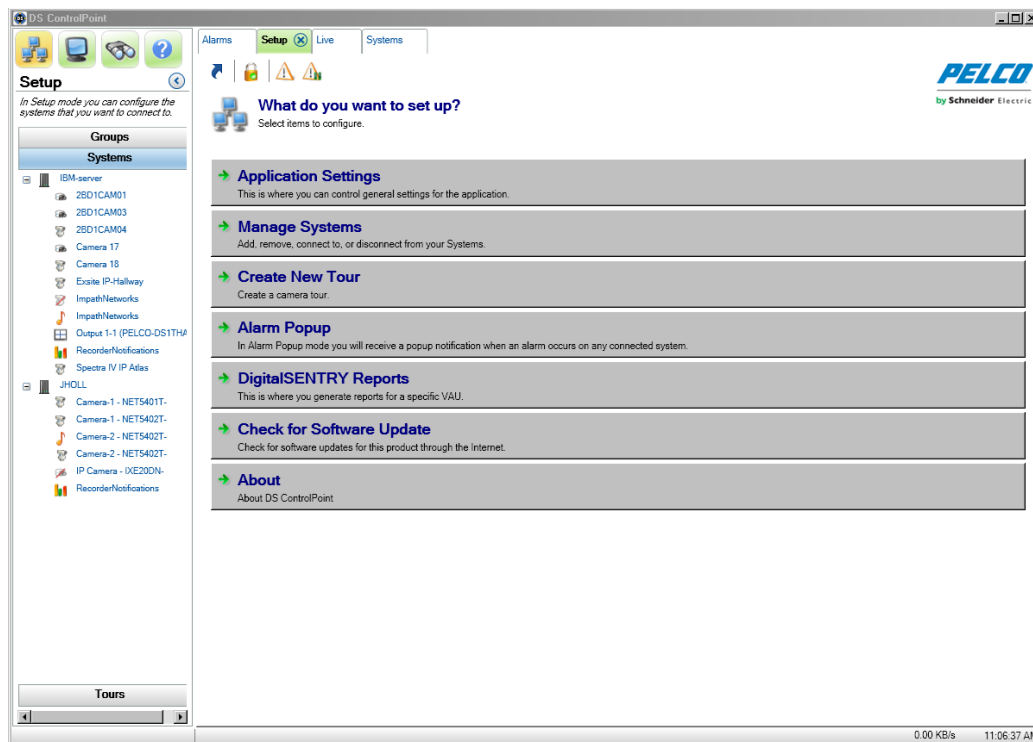


Figure 2. Setup Page

LOCKING SHARED SETUP OPTIONS

To lock setup options:

1. Click the lock icon [icon to be inserted here] beneath the options tabs. The Lock Setup Password window appears.
2. Enter and confirm your password.
3. Click OK. The Setup Protection Enabled window appears.
4. Click OK.
5. Click the lock icon and enter your password to unlock the setup options.

APPLICATION SETTINGS

When you click Application Settings in the Setup page, the Application Settings dialog box appears (refer to Figure 3). 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.

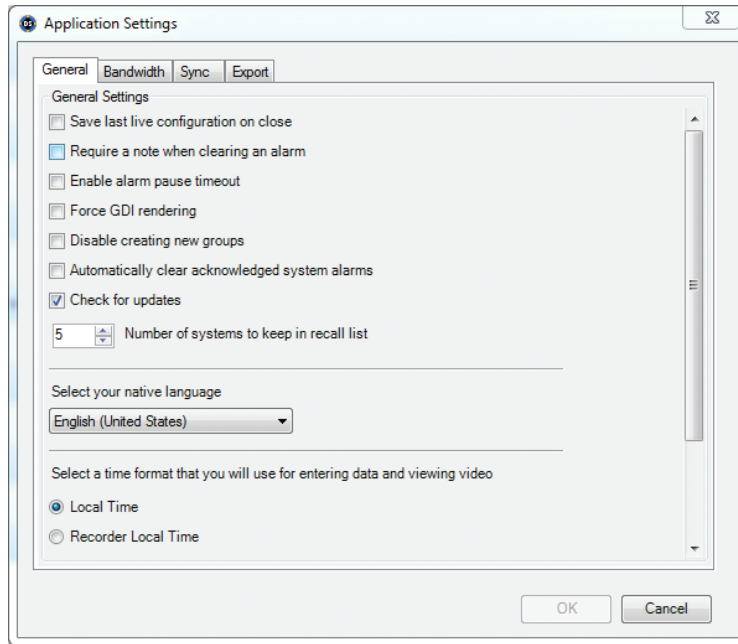


Figure 3. General Settings Dialog Box

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.
- **Remote System Settings:** This allows the administrator to limit the number of camera layouts or camera streams from DS ControlPoint.

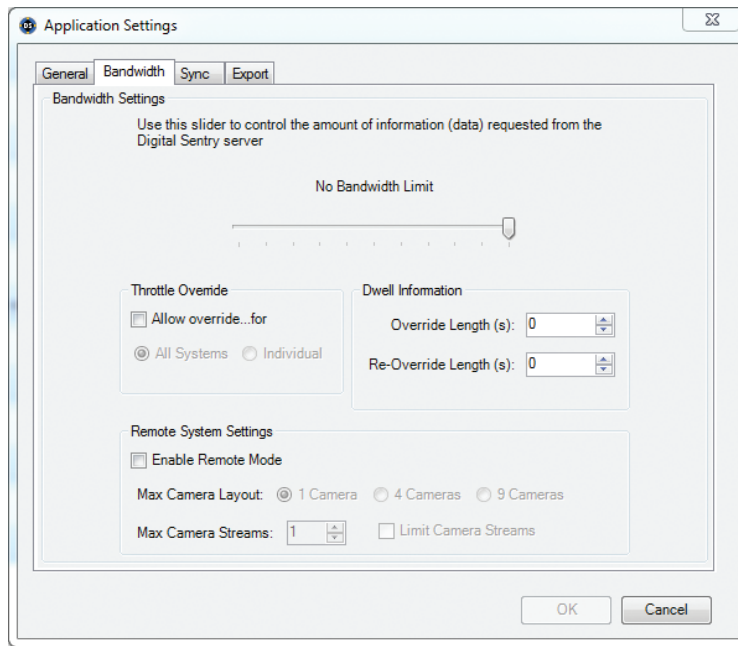


Figure 4. Bandwidth Settings Dialog Box

Once these options have been configured, you can open the ThrottleAssistant by typing “B” on the keyboard (refer to Figure 5). 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.

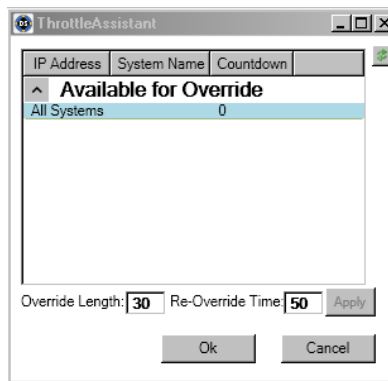


Figure 5. Throttle Assistant

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 DSAdmin 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.

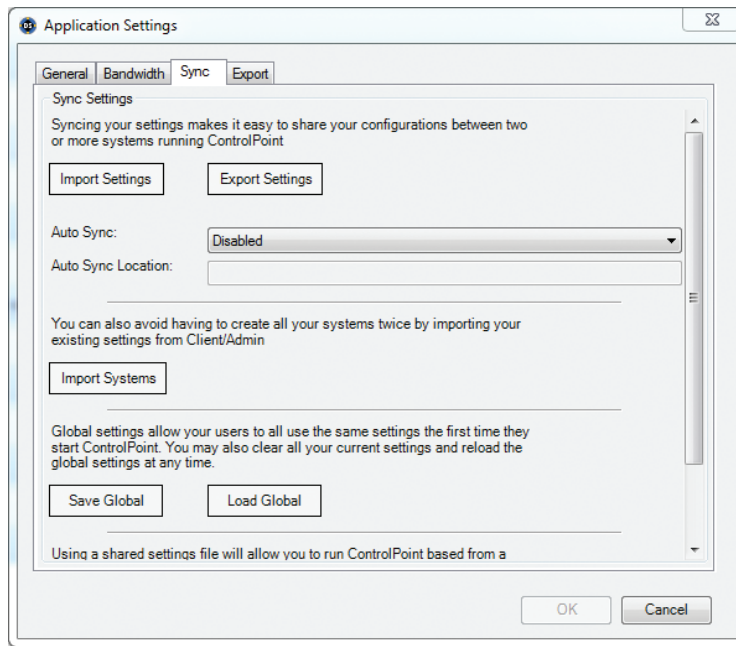


Figure 6. Sync Settings Dialog Box

Using Auto Sync: The Auto Sync function allows the CP or XML file to be enabled at the following settings:

- On Start Up of ControlPoint
- Hourly
- Daily
- Weekly
- Monthly

Using Auto Sync

1. Determine the location of the file (Ex. C:\ControlPoint Files\CPSettings.cp).
2. Configure your auto sync setting.
3. Click OK.
4. Export the CP file.
5. In order to disable the auto sync setting, delete the .cp or .xml file.

To import systems:

1. Click the Application Settings tab in the Setup page. The Application Settings dialog box appears (refer to Figure 6 on page 14).
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 7).
4. Click the OK button to close the dialog box.

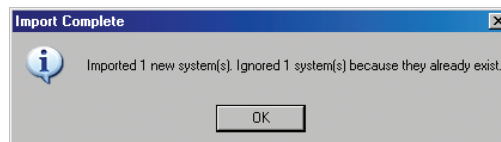


Figure 7. Import Complete Dialog Box

To change to global settings:

1. Click Application Settings in the Setup page. The Application Settings dialog box appears (refer to Figure 6 on page 14).
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 6 on page 14).
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.

Export: Allows you to save and export pop-up alarm information.

1. Click the Application Settings tab in the Setup page. The Application Settings dialog box appears (refer to Figure 6 on page 14).
2. Click the Export button. The Export section appears.

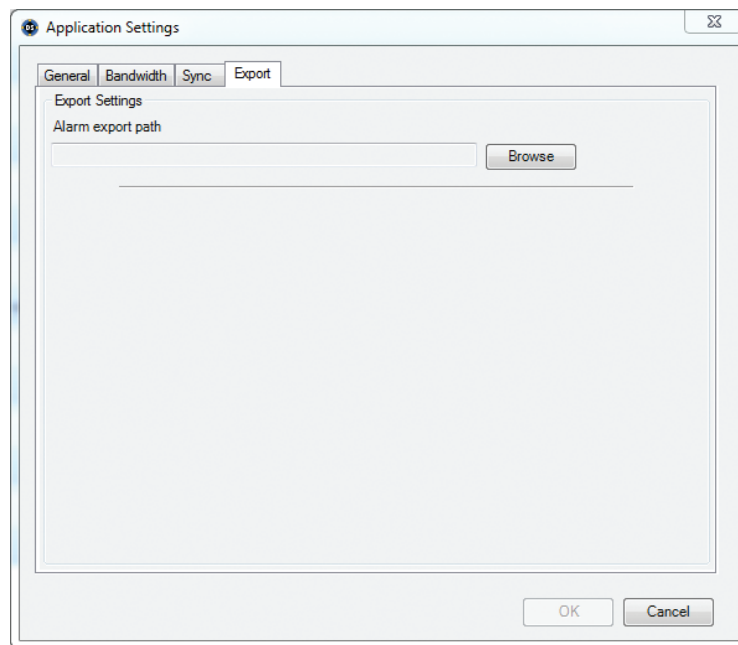


Figure 8. Export Settings Dialog Box

3. Enter the desired alarm export path in the Alarm export path window.
4. Click the OK button to export your pop-up alarm settings to the selected folder.

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.

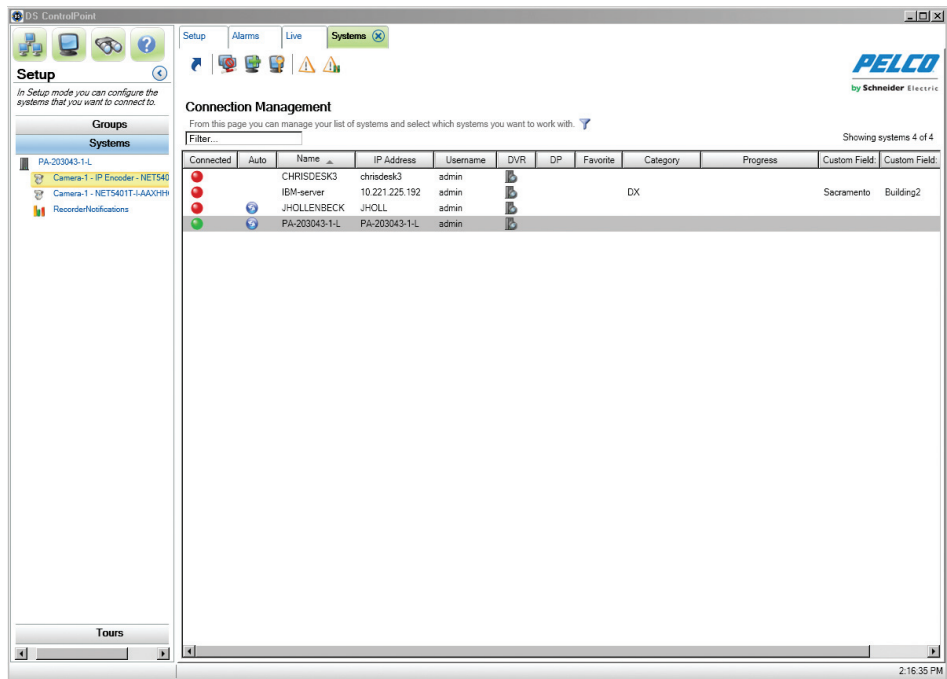



Figure 9. Connection Management Page

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, discover available systems, and recall systems that have been connected to recently.

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.

Add System

Enter settings for this new system.

Name:

Hostname or IP Address:

Recorder Port: System Type:

Category (optional):

Username:

Password:

Description (optional):

Custom Fields: Remove

☐ Auto Connect

☐ DataPoint Server

☐ Favorite

☒ Video Recorder

☐ Windows Auth

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.

To find available systems on your local network:

1. Click the Discover Systems icon, or right-click and select Discover Systems from the menu. This opens the Discover Systems tab, which allows you to find available systems on the local network.
2. Select the appropriate system from the System Type drop down menu.
3. Click the Scan Network for Systems button. Available systems will appear.
4. Select the systems you wish add.
5. Click the Add Selected Systems button.

To recall recently connected systems:

1. Click the Recall List button (icon to be added), or right-click and select Recall List from the menu. This opens the Recall List tab, which displays recently connected systems.

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 18) 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.
	Discover Systems	Display a list of all systems on the network.
	Recall List	Show systems that have been connected to recently.
	System Report	Start a system report of selected systems.

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.

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 12 on page 19). You can also right-click a disconnected system and select Edit System from the system drop-down menu.

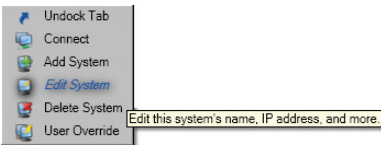


Figure 11. System Drop-Down Menu



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

Figure 12. 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 13).
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.

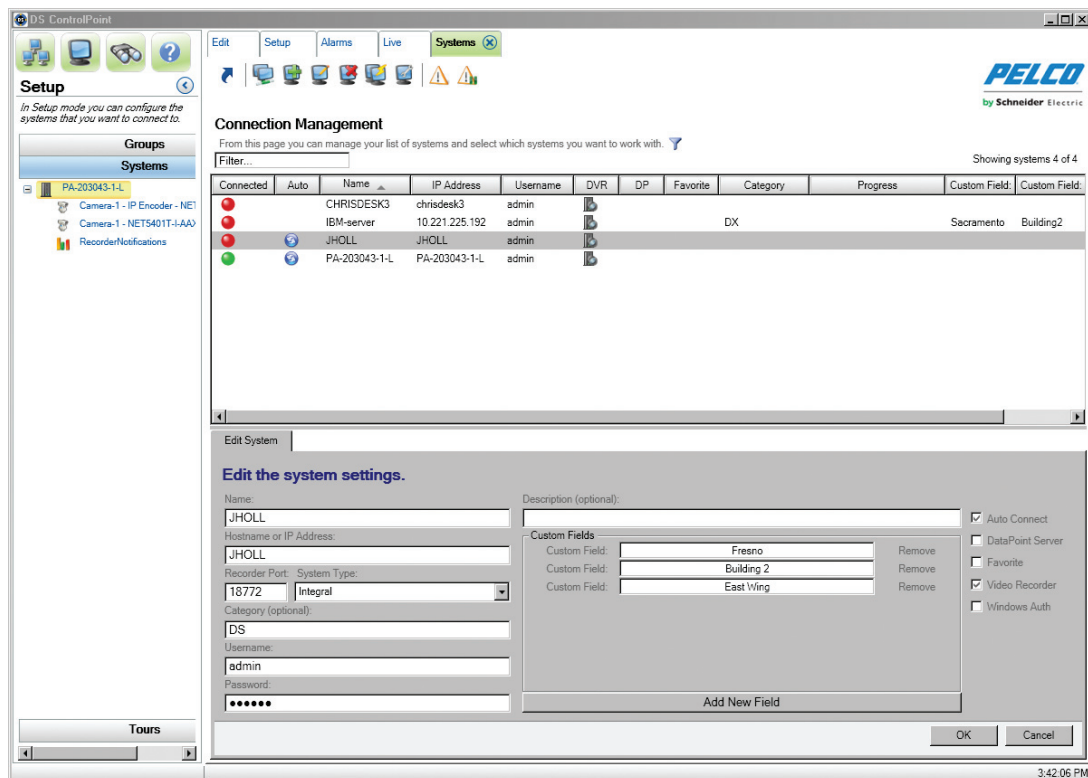



Figure 13. Add or Edit System Settings Dialog Box

UPDATING YOUR PASSWORD

1. Click the appropriate system.
2. Click the Update Password icon . The Update Password dialog box appears (refer to Figure 14 on page 21).
3. Type the old password, the new password, and then confirm the new password.
4. Click the OK button to close the dialog box.

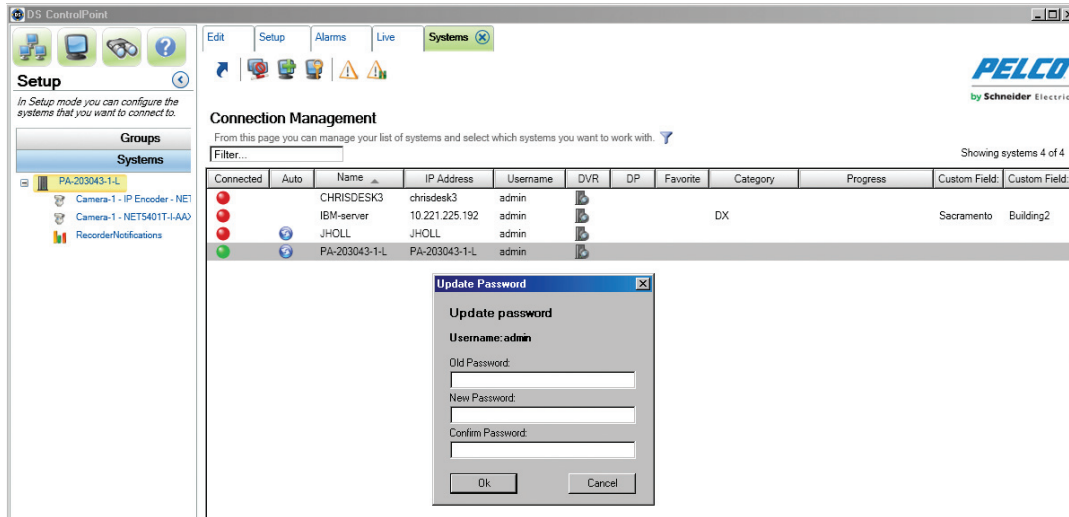


Figure 14. Password Update Dialog Box

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, IP address, or user name. For example, you can filter any system name beginning with DX.

HIDING THE SYSTEM LIST

1. Highlight "Filter..." in the System Filter box.
2. Type all or part of the name or IP address. Only those systems designated in the filter will appear.
3. Right-click in the System Filter box to display the available filters.
4. Click a filter to select it or to cancel the selection.

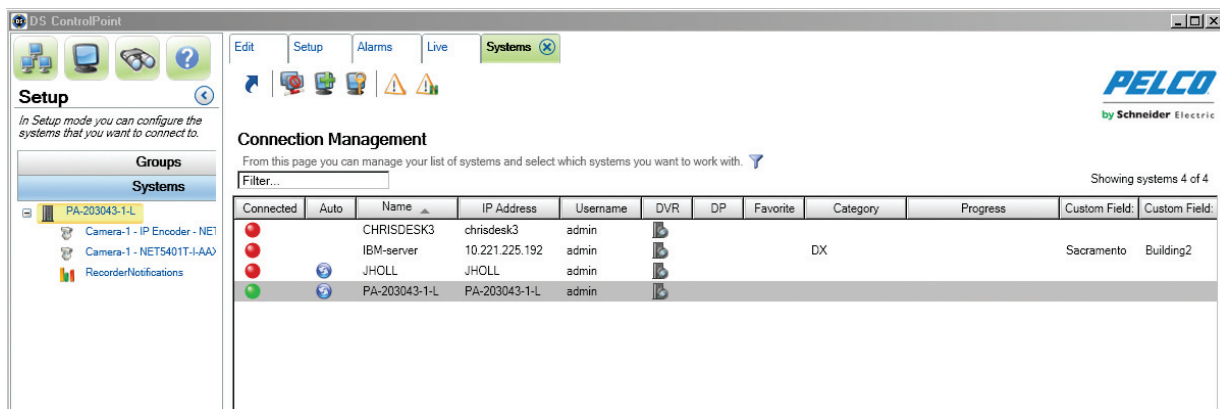



Figure 15. Filtering the System List

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 16). 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.

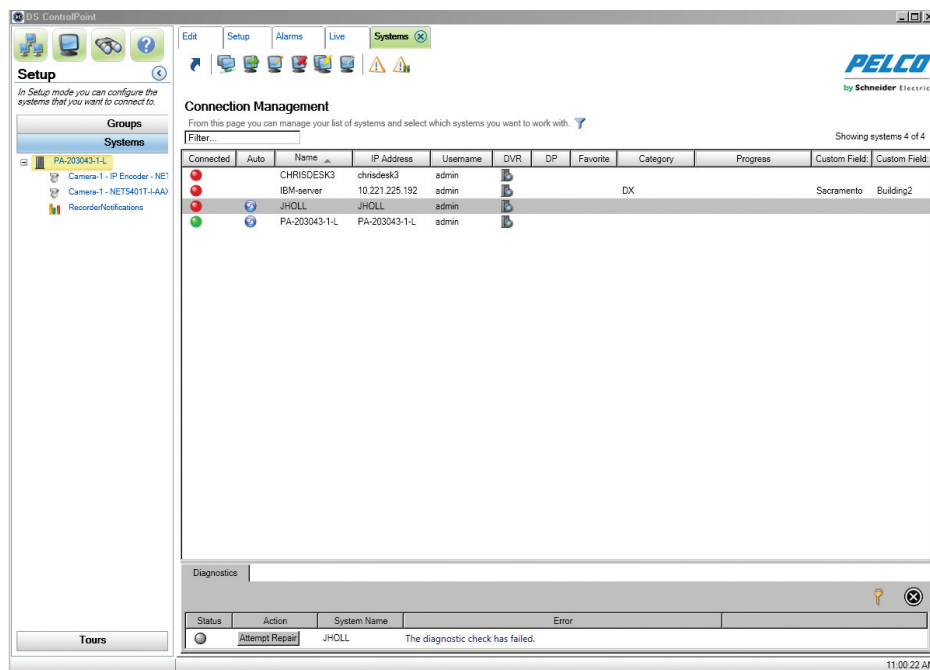


Figure 16. Diagnostics Tab

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 2 on page 11), 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.

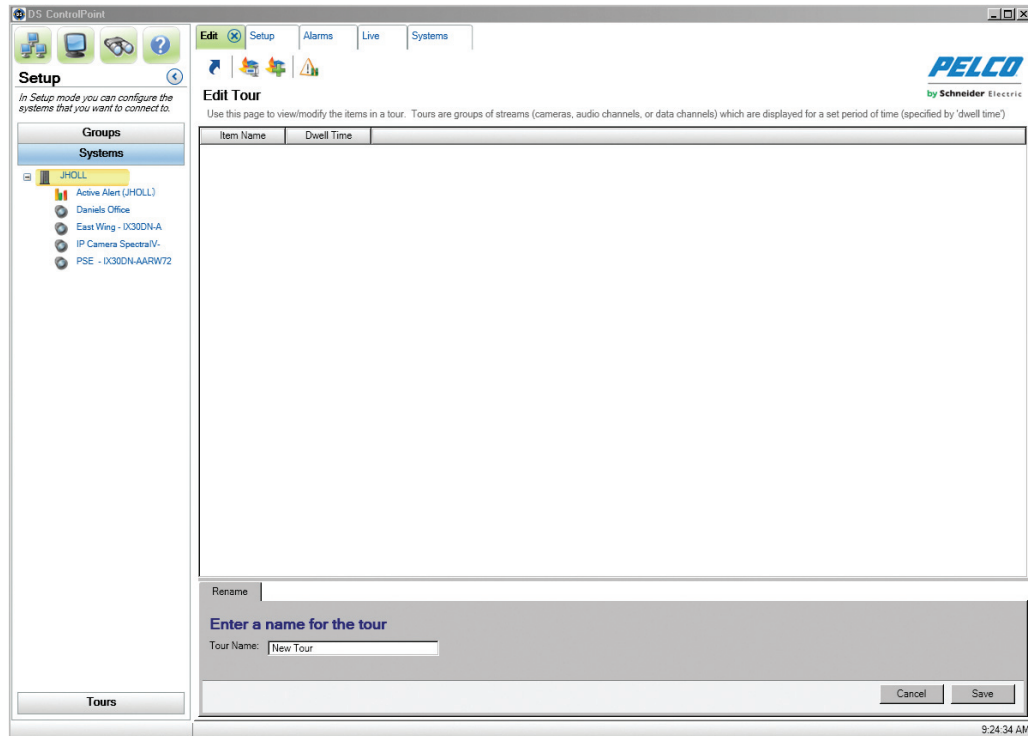


Figure 17. Edit Tour Page

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 18 on page 24).

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

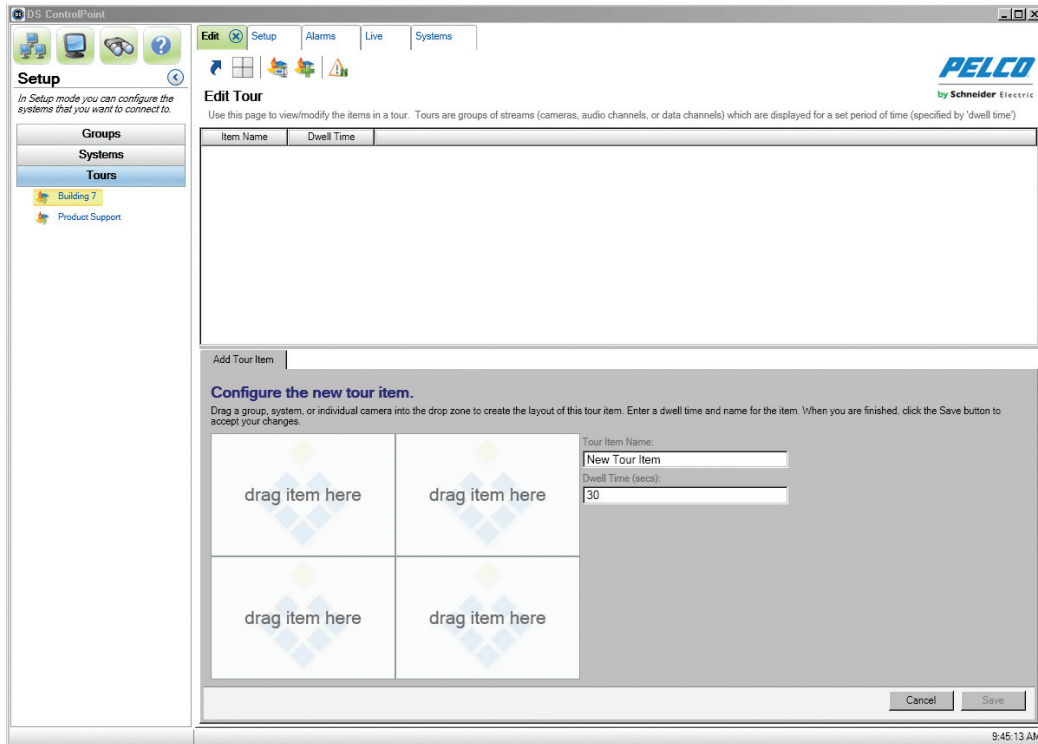


Figure 18. Add Tour Item Tab

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 19).
2. Click the Resume Tour icon. Alternatively, select the Tour tab, right-click the tour name, and select Run from the menu.



Figure 19. Resume Tour and Pause Tour Icons

ALARM POPUP

If you are assigned Alarm Activity rights in DSAdmin, 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.

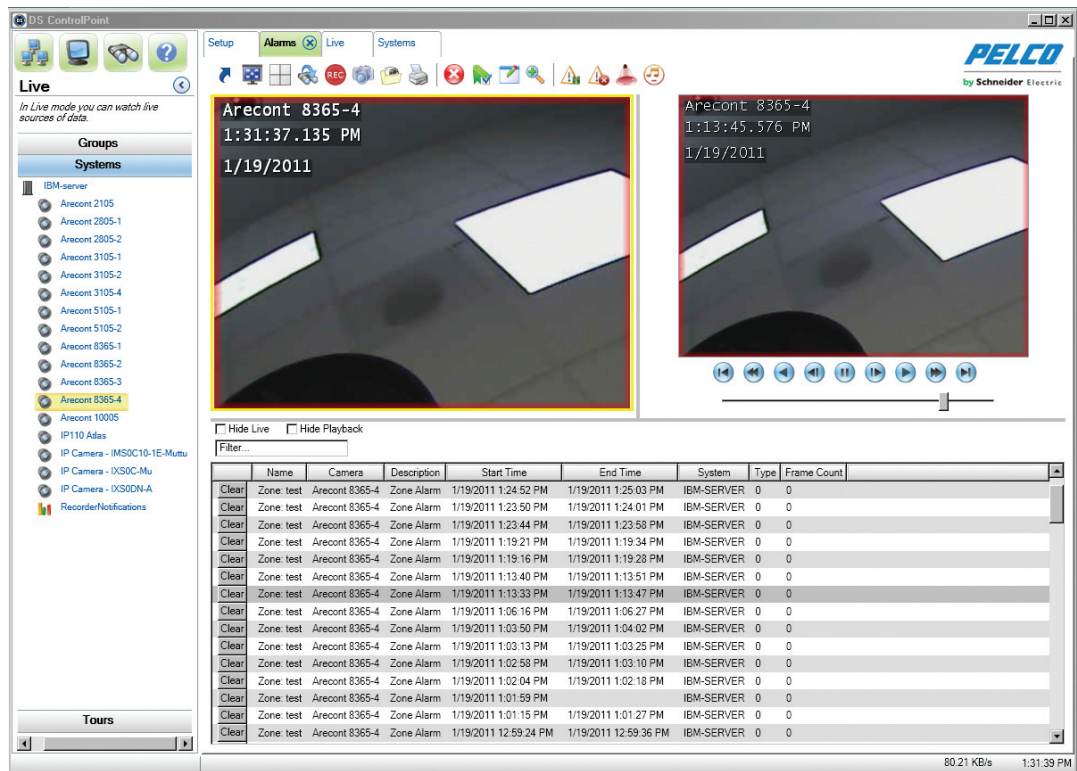


Figure 20. Playing Back Current Alarms

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.

NOTICE: For Oncam Grandeye cameras, do not use the Alarm Popup feature. Running the Oncam Grandeye cameras with alarms may cause resource issues resulting in ControlPoint unexpectedly stopping.

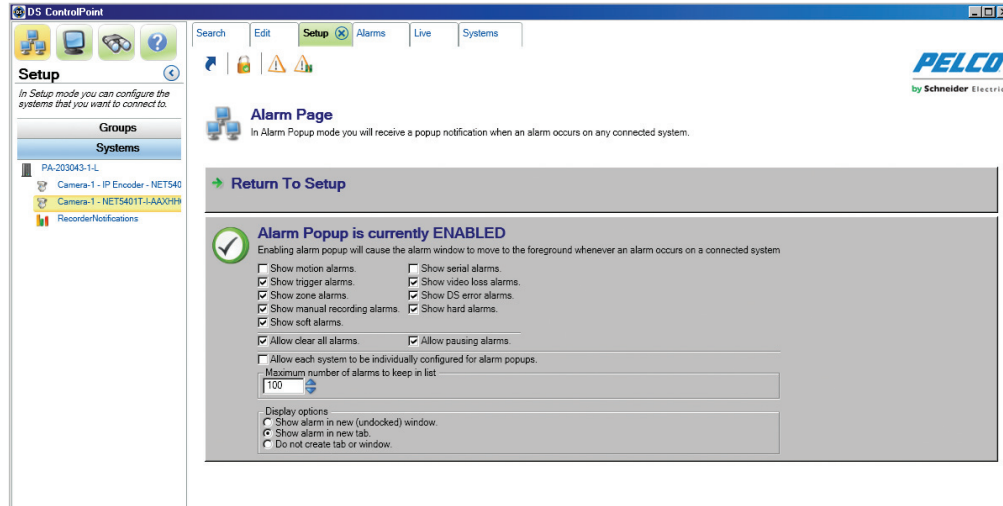



Figure 21. Alarm Popup Screen

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.

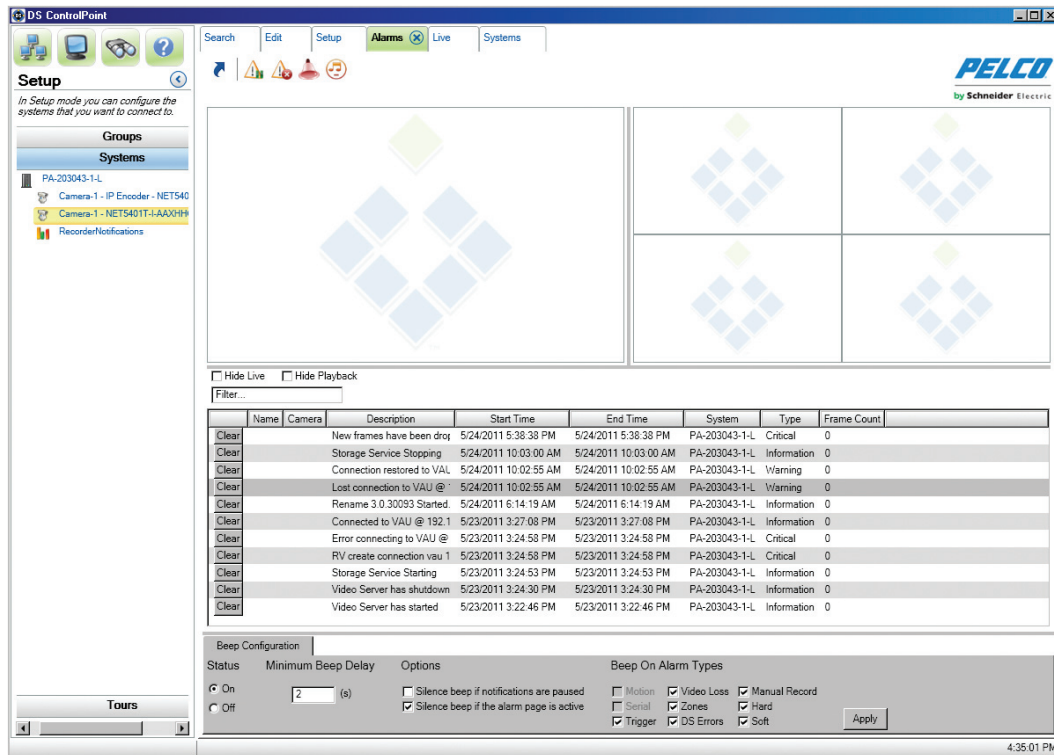


Figure 22. Beep On Alarm Tab

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.

EXPORTING POP-UP ALARMS

You can save and export pop-up alarm information.

1. Click the Application Settings tab. The Application Settings screen opens.

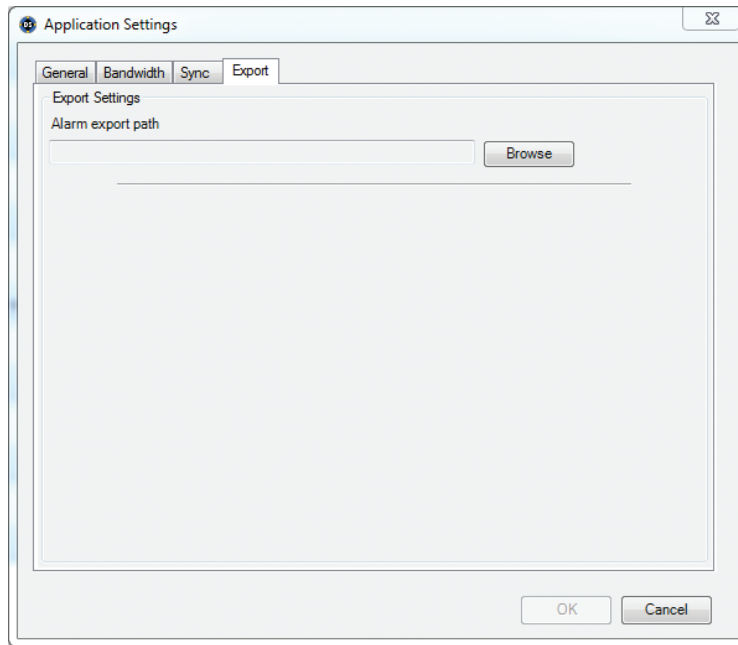


Figure 23. Export Pop-Up Alarms Screen

2. Click the Export button.
3. Enter the destination to which you want the pop-up alarms report sent in the Alarm export path field.
4. Click the OK button.
5. Go to the destination you've selected to view the Pop-up Alarm Export Report.

NOTE: Once a destination has been entered in the Alarm export path field, it cannot be deleted from that field in the Application Settings screen.

Deleting an Export Destination

1. Click the Browse button to the right of the Alarm export path. The Save As screen appears.
2. Delete the information in the File name field.
3. Click the Save button, then close the Save As screen.

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, object, IP address, activity type, or description, and identifies the DS machine name.

Zone Report: Shows how zone alarms are configured.

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

Snap Shot Report: Shows only a camera snap shot and the camera name, in HTML format.

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 2 on page 11). The Digital Sentry Reporting dialog box appears.

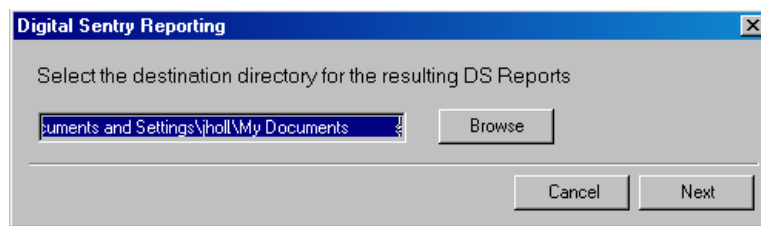


Figure 24. Digital Sentry Reporting Dialog Box

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.

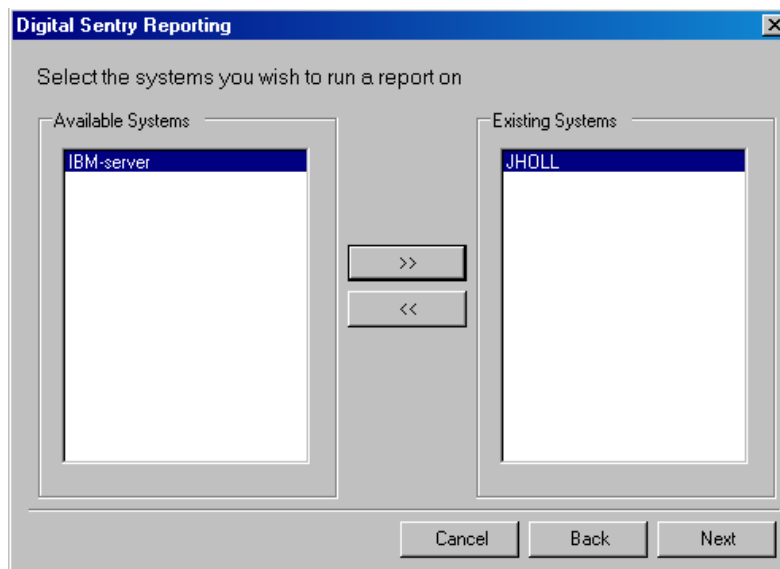


Figure 25. Selecting Existing Systems

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

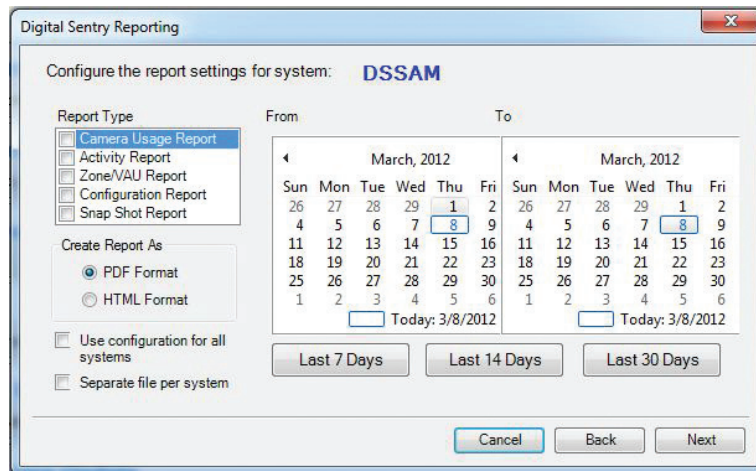


Figure 26. Configuring System Report Settings Dialog Box

- Select the report type(s) from the drop-down list.
- Select the report format: PDF or HTML.
- Select "Use configuration for all systems" if you want to reserve these settings for future reports.
- Select "Separate file per system" if you want multiple reports to be generated as separate files instead of being consolidated into one.
- 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.
- Click the Next button. A dialog box appears to generate the report.

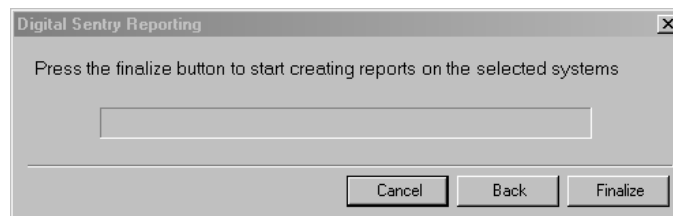


Figure 27. Create Report Dialog Box

- Click the Finalize button. The report will appear in the directory location that you set up in step 2.
- 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:

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

NOTE: You must be connected to the Internet to perform this function.

- Click the ControlPoint box, and then click the Next button.
- Type the location in the Save Path box or click the Browse button for a download location, and then click the Next button.
- Once the software download is complete, click the Finish button.
- 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.

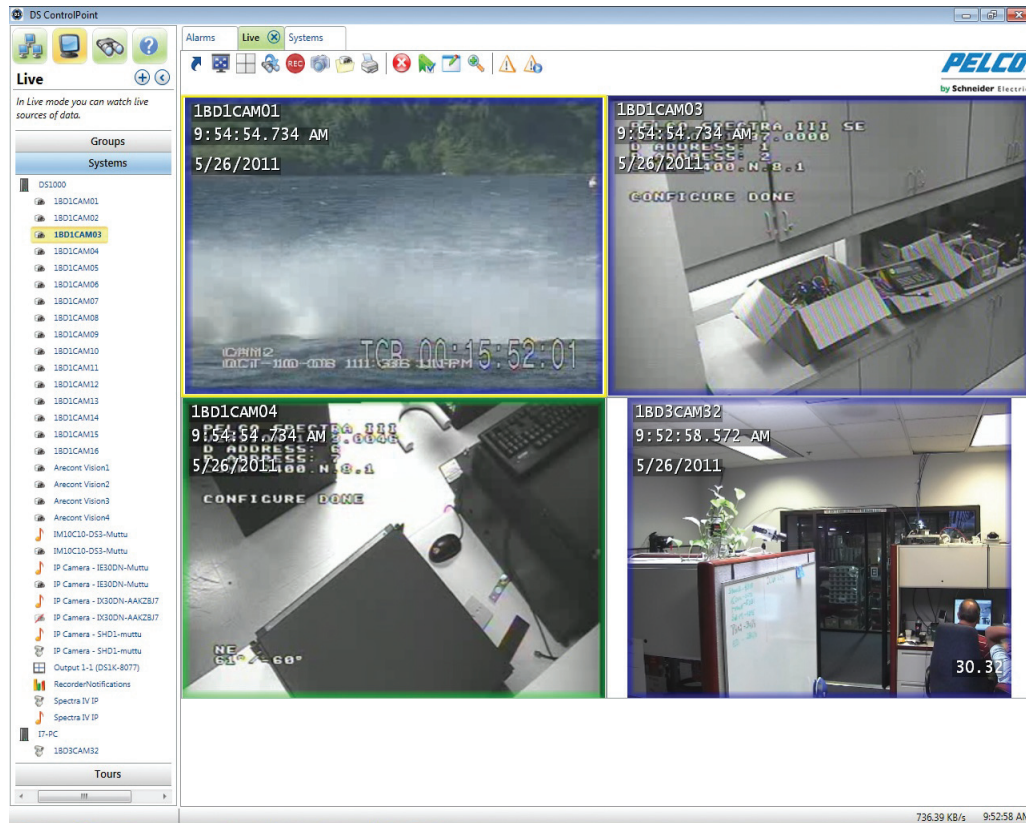


Figure 28. Analog Output Screen


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 DSAdmin.
- 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.
2. Right-click on a system to expand the tree until you see the appropriate camera.
3. 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.

4. Repeat these steps until video or data from all the desired cameras and devices is displayed in the video panes.

NOTE: Multiple cameras may be selected by pressing CTRL+Select or Shift+Select using the keyboard.

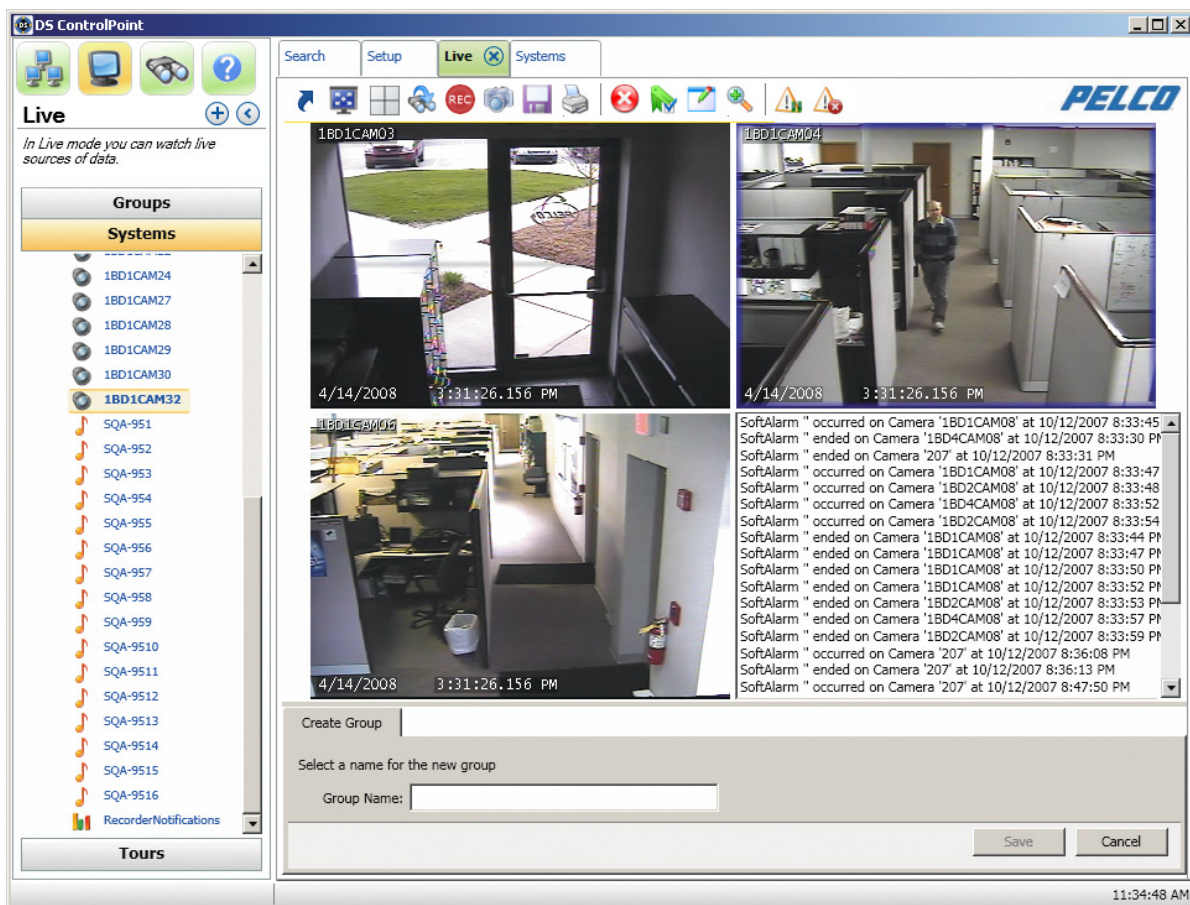

















Figure 29. Live Page


NOTE: If the device placed into a video pane is a PTZ camera, refer to *PTZ Cameras* on page 49 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 38.

MANUAL RECORD

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

- Recording Resolution
 - Off
 - Low
 - Medium
 - High
- Recording Time
 - 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.

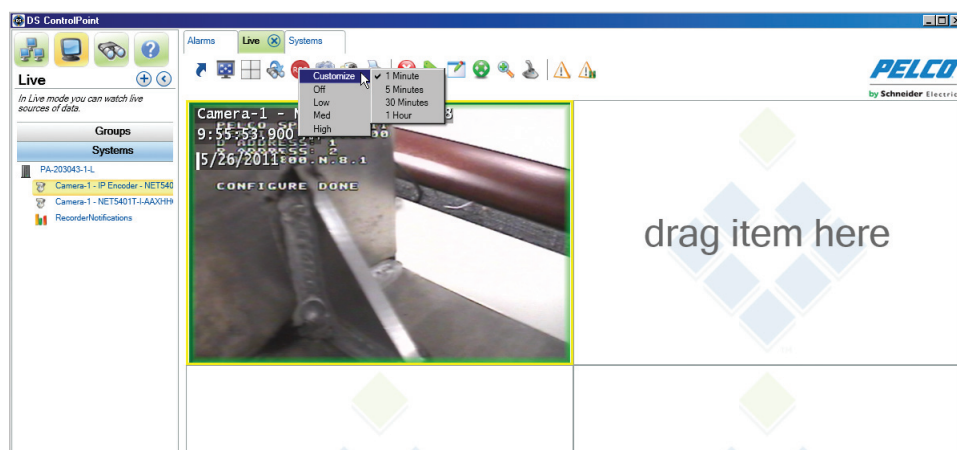



Figure 30. Customizing Recording

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.
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. Select "Keep Open after Save?" if you want the Snapshot Preview screen to remain open.
6. Select "Add note?" if you want to add a note to the snapshot.
7. Click the Save button to save the snapshot to the desired location.

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

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 31), 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.

NOTES:

- Camera groups configured directly through DSAdmin also appear in the Groups section of the navigation pane. They can be found in the System Groups portion of the tree.
- Camera properties and the ability to pause and unpause notifications are also accessible when you right-click on a camera in the camera tree.

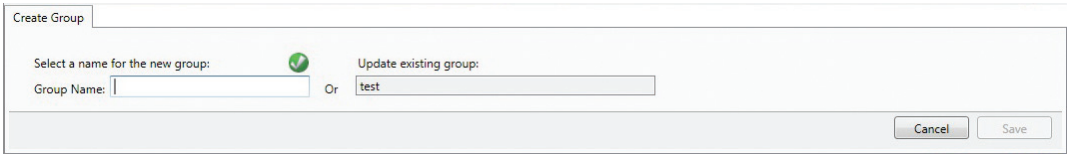


Figure 31. Create Group Tab

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.

ENTERING A MOTION MASK FOR SARIX CAMERAS

Motion masking is available for Sarix cameras.


1. Right-click in the image.
2. Select the Configure Motion Settings option. The Configure Motion Settings page appears.
3. Click and drag in the image to select the area to be masked.
4. Click the Save button, then the Close button.

NOTE: The system requires 15 minutes to recognize the motion masking setting.


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), alarm (red), or motion (purple). 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 32). The On-Screen Display Settings window allows you to configure text items displayed in video panes.

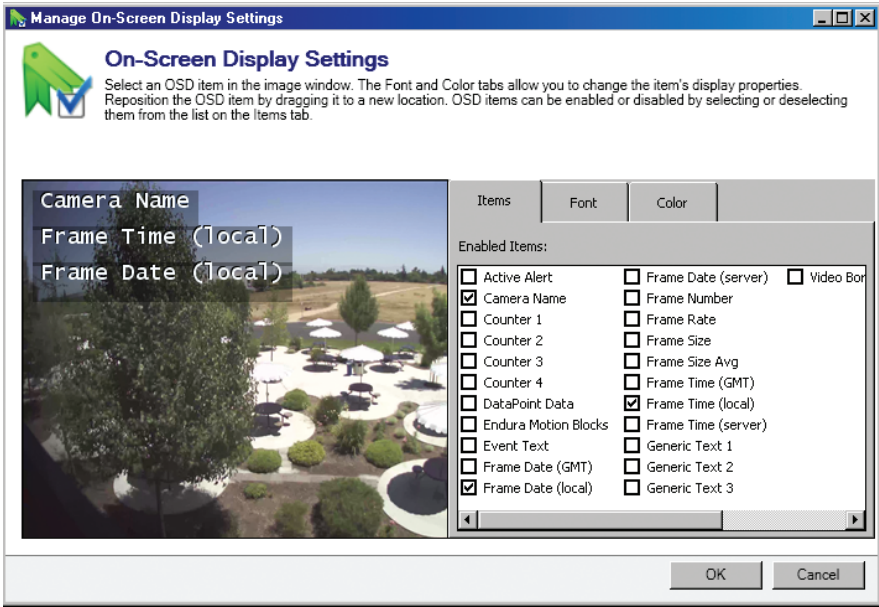


Figure 32. On-Screen Display Settings Window

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.

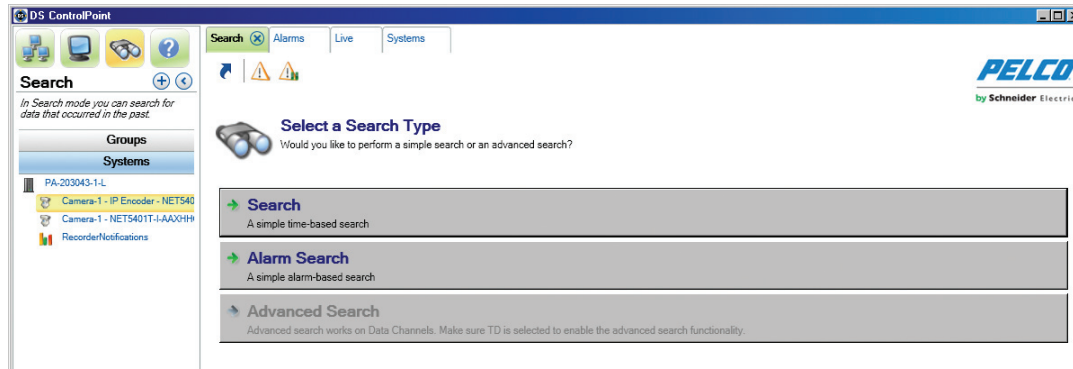


Figure 33. Search Tab

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 34.

WARNING: Video search requests may utilize large amounts of memory resulting in degraded and unpredictable system behavior. Pelco recommends using a single search tab, and carefully selecting the smallest number of cameras and shortest timeline when using ControlPoint.

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.

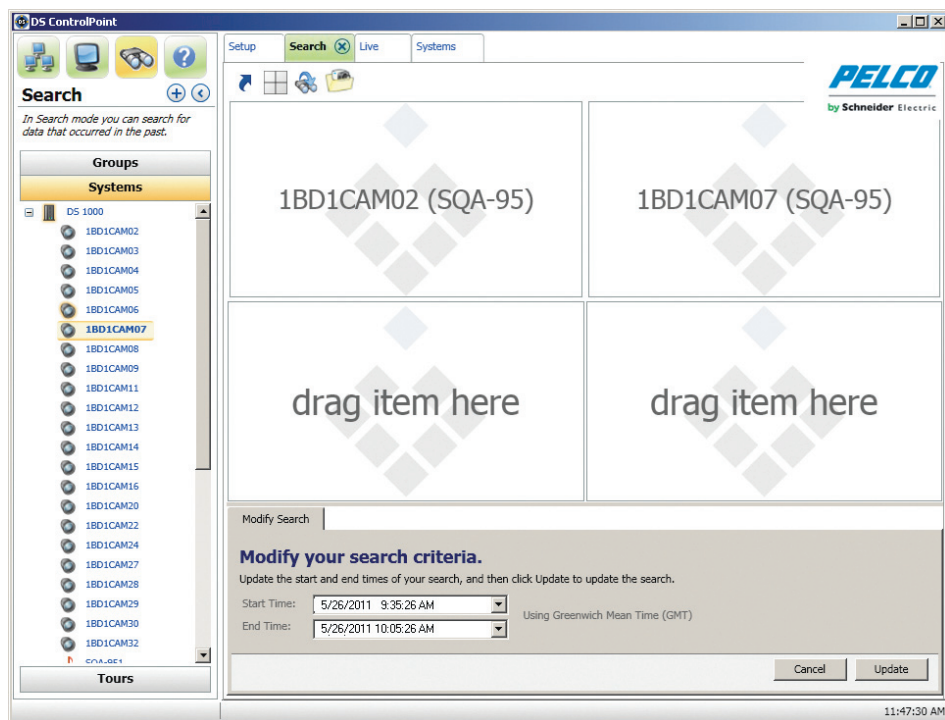


Figure 34. Non-DS Camera Search Page

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 35). 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 35. 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 36.

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.

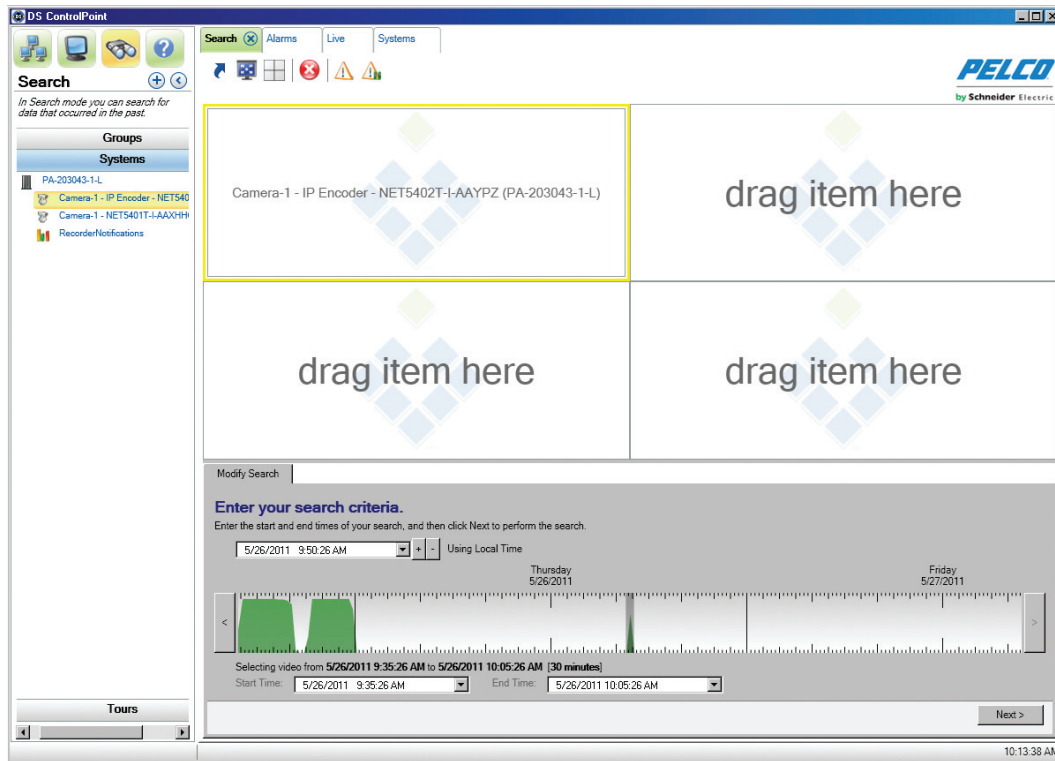


Figure 36. DS Camera Search Page

The search grid for DS cameras (refer to Figure 37 on page 41) 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 37).
- Click the date and time drop-down calendar to adjust the date and time of the search.

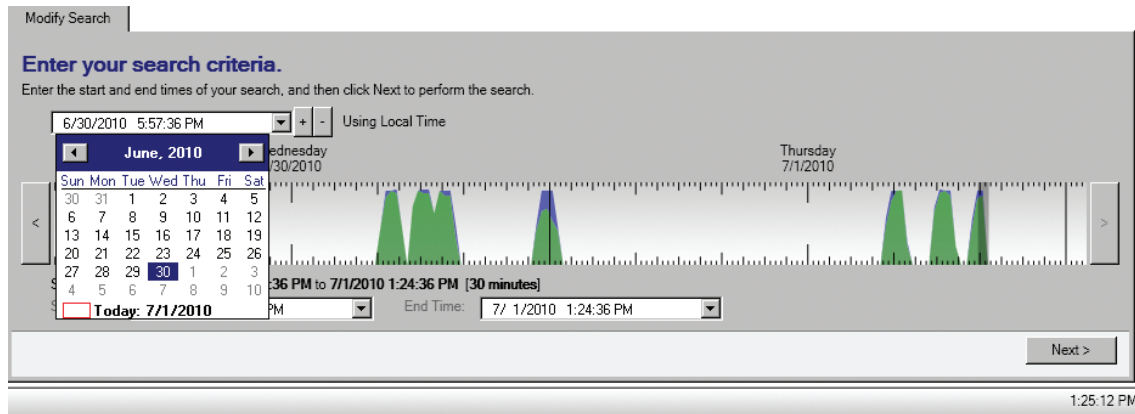


Figure 37. Search Using Calendar or Plus/Minus Buttons

- 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.

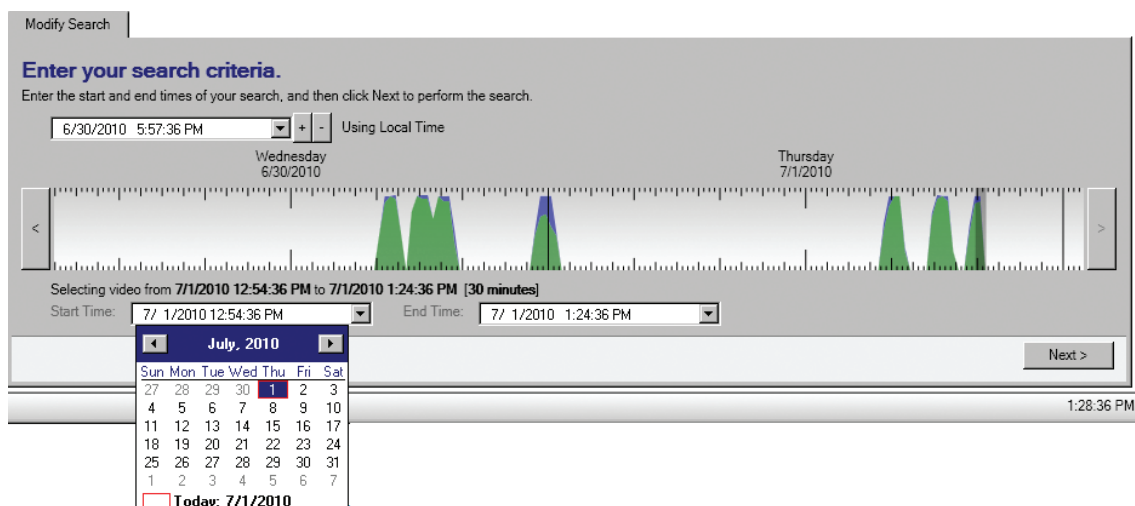


Figure 38. DS Camera Search Using Start and End Time Boxes

DS SERVERS AND DX8100 SERIES SYSTEMS SCAN

You can scan for DS servers and DX8100 series systems.

1. Click the Systems tab. The Connection Management page appears.
2. Right-click the Systems tab, then select the Discover System option from the drop-down menu. The Discover Systems tab appears.
3. Click the Scan Network for Systems button. All available systems will display.

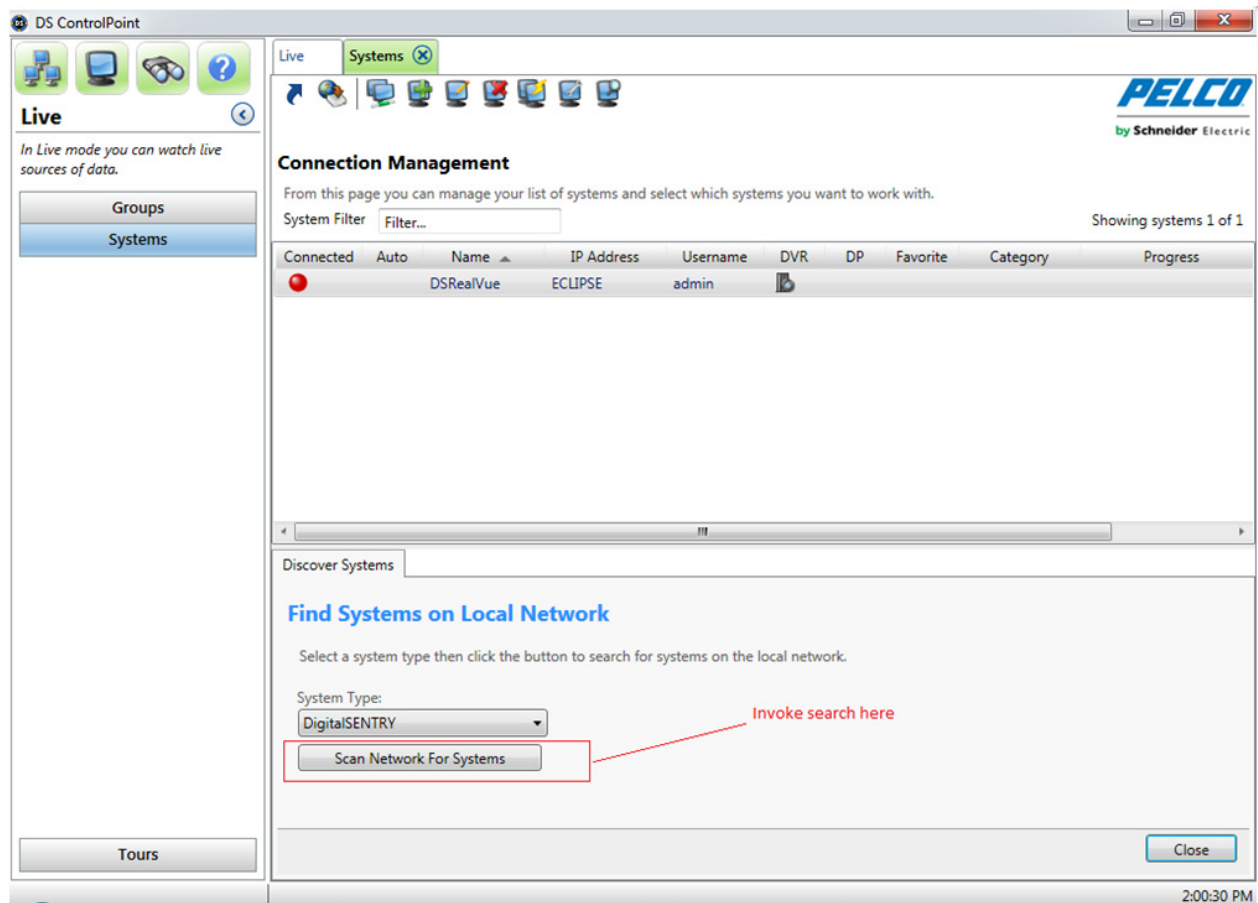



Figure 39. Scanning the Network for Systems

4. Select the system(s) you want to add to your systems list, then click the Close button.

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.

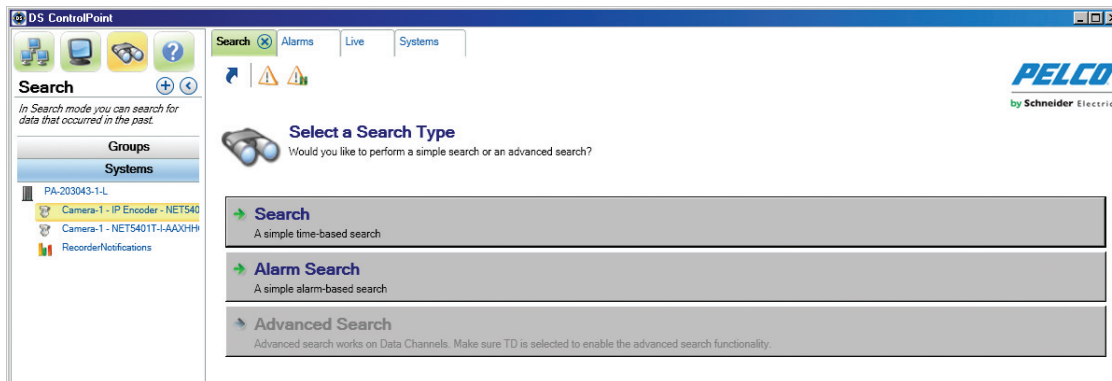


Figure 40. Alarm Search

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.

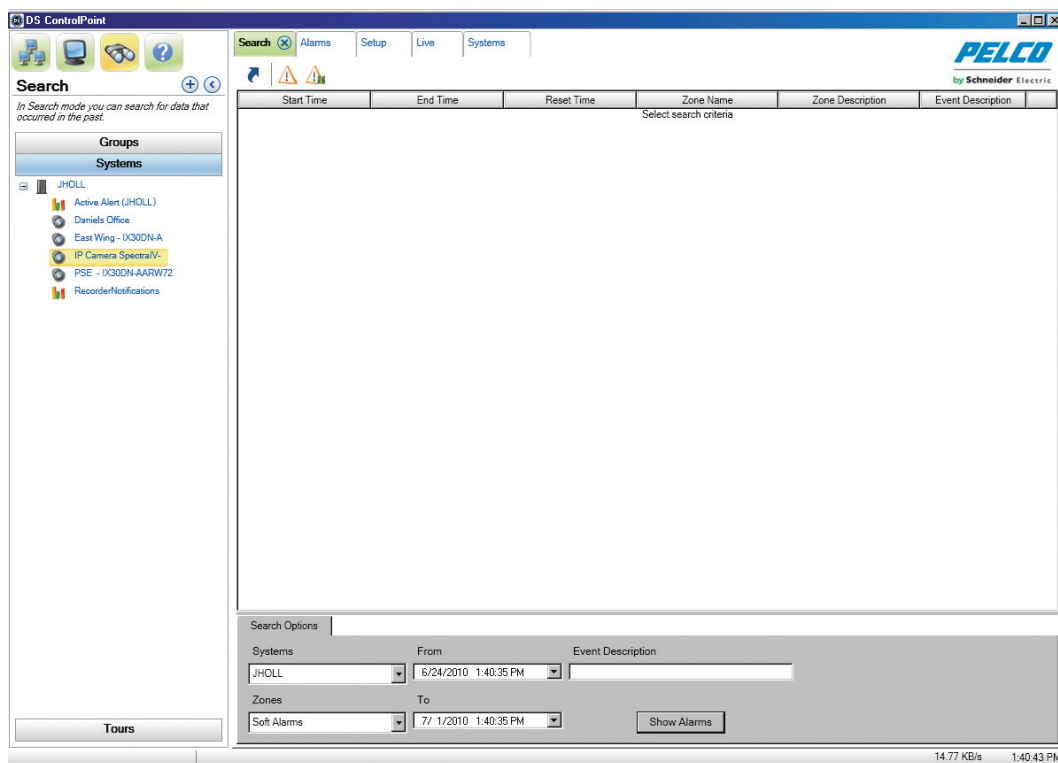


Figure 41. Alarm Search Screen

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

ACKNOWLEDGING SERIAL ALARMS

All alarms are acknowledged in Digital Sentry when an acknowledge ASCII string is sent from the access control system. If the Pelco ASCII command set is used, the acknowledge string is an iA command. The AlarmClear service must be installed.

INSTALLING THE ALARMCLEAR SERVICE TO MONITOR COM1 PORT

1. Go to the Files directory.
2. Copy all of the files into a permanent location (from which the service will run).
3. Run the *alarmclear.cmd* to execute the *alarmclearbystring.sql* against the database.
4. Run the *alarmautoClear.cmd* to install the AlarmClear service.

NOTES:

- You must be logged on with administrator permissions to perform this installation.
 - If there is an error, edit the *alarmautoClear.cmd* file and verify that the path to *installutil.exe* is valid.
 - The user name is ".\DSServiceUser" and the password is the DSServiceUser's password.
5. Go to the Services tab and start the DigitalSentry Serial Alarm Clear Service.
 6. If running x64 then run *AlarmAutoClear64.reg*, otherwise run the 32 version.

MONITORING ANOTHER COM PORT

1. Stop the DigitalSentry Serial Alarm Clear Service.
2. Open regedit, and then go to *HKEY_LOCAL_MACHINE\Software\Integral Technologies, Inc.\DigitalSentry\AlarmAutoClear*.
3. Change the options to the port to be monitored.
4. Restart the service.

CONFIGURING VIDEOSERVER

1. Open DSAdmin.
2. Add a Zone. The name must be a two-digit number (for example, 20).
3. Click the Serial Input tab for the zone, and then add the text. (for example, 20Ea).
4. Save the zone.
5. Click the VAU.
6. Click the Serial Ports tab.
7. Add a COM port to the "Assigned COM ports" list. You must use a different COM port than the one assigned to the AlarmClear service.
8. Click Interface Type, and then select Monitor.
9. If necessary, select the check box to ensure that it is active.
10. Open the Alarm Text tab and add a line item (for example, 20Ea).
11. Restart the VideoServer.

CONFIGURING DS CONTROLPOINT


1. From the Setup menu, select Application Settings, and then select General.
2. Select "Automatically clear acknowledged system alarms."
3. Click "Save."

NOTES:

- When an ASCII string of "XXEa" comes in (for example, on COM1), the zone alarm is triggered through VideoServer.
- When an ASCII string of "XXIa" comes in (for example, on COM2), the service will intercept this command and clear the alarm in the database.
- When CP recognizes that the alarm being displayed has been cleared, it will remove the item from the alarm 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 16). 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.

NOTE: To view Sarix analytic alarms with continuous recording, click the Enable Analytics box on the General tab in DSAdmin for the desired camera.

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 iOmniSearch 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.

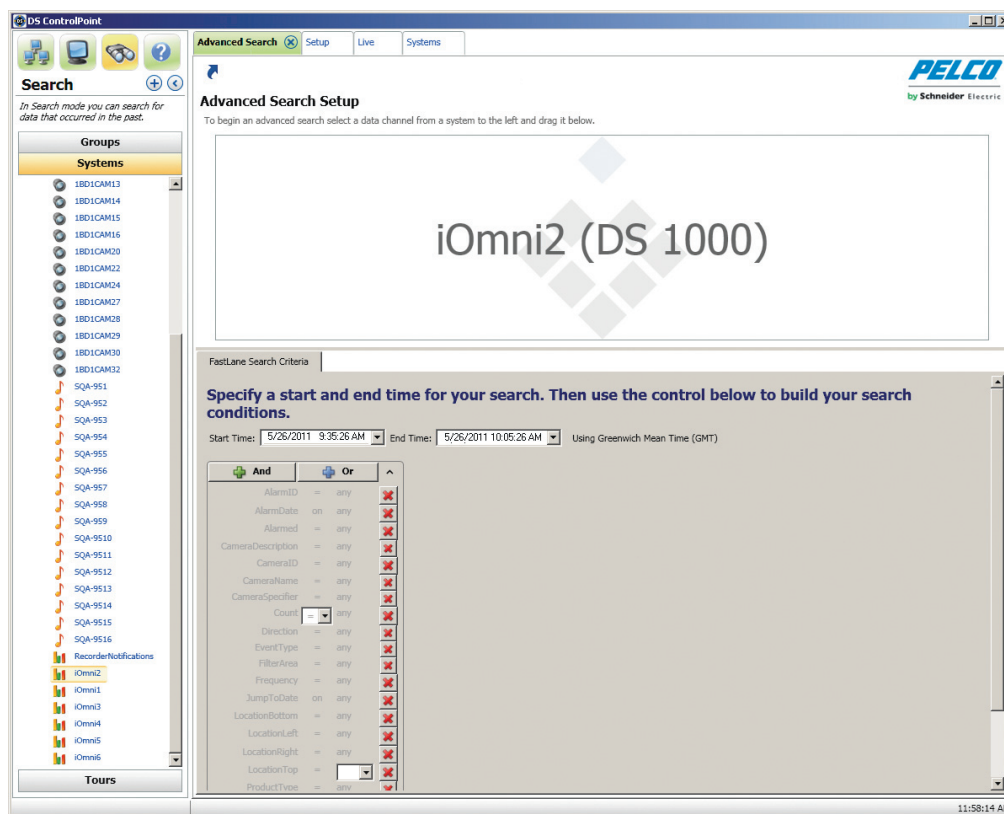


Figure 42. Advanced Search Tab

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.

THUMBNAIL SEARCH

The system has been upgraded to allow thumbnail screens to be displayed below the graph in the Search tab. These thumbnails represent the same time line as represented in the graph. Moving the graph updates the thumbnails according to the time line of the graph.

1. Open the Search tab and select Advanced Search.
2. Drag a DS camera to a search pane to display the thumbnails.

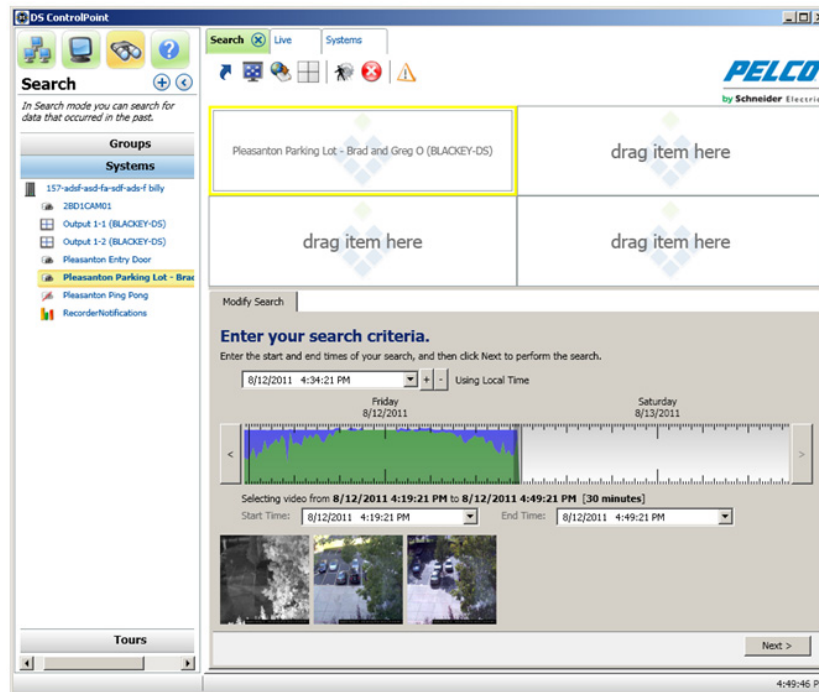


Figure 43. Thumbnail Search Screen

3. Drag and select a time line range for the desired search.
4. Place your pointer over any thumbnail to display the timestamp of that thumbnail.

NOTE: For increased granularity of the thumbnails, you can select a smaller time line.

Thumbnail search works with continuous- or motion-based recording. Thumbnails are generated based on the time span of the selected time line divided by the number of thumbnails that can be displayed (depending on your screen resolution). The first i-frame for each divided section appears as a thumbnail. For example, if your search window displays six thumbnails, the search results window will display the first i-frame for each of the six sections of the time line. The thumbnail display correlates with the selected area on the color range bar.

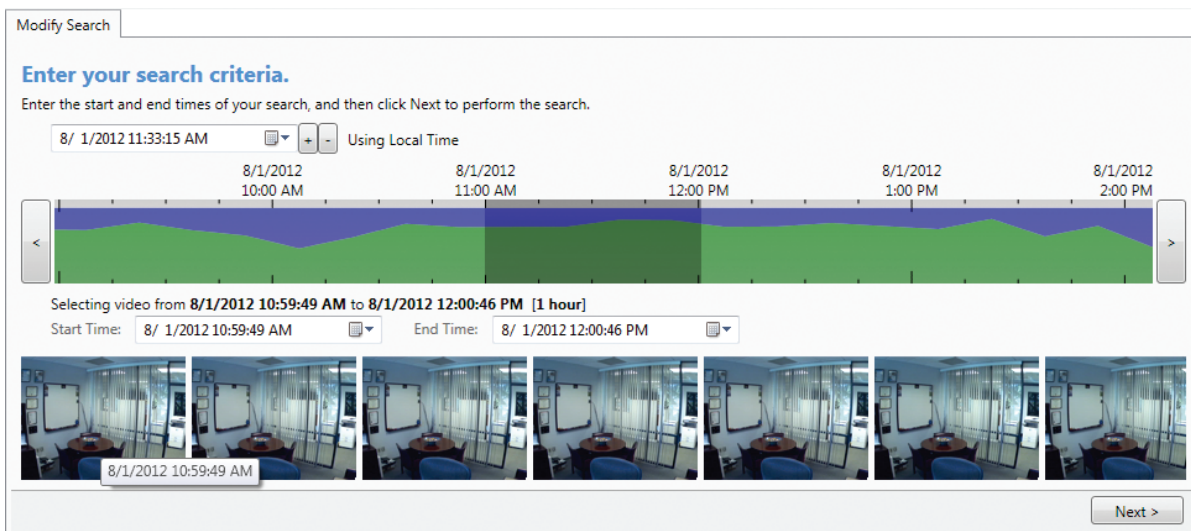


Figure 44. Detailed View of Thumbnail Search Screen

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.

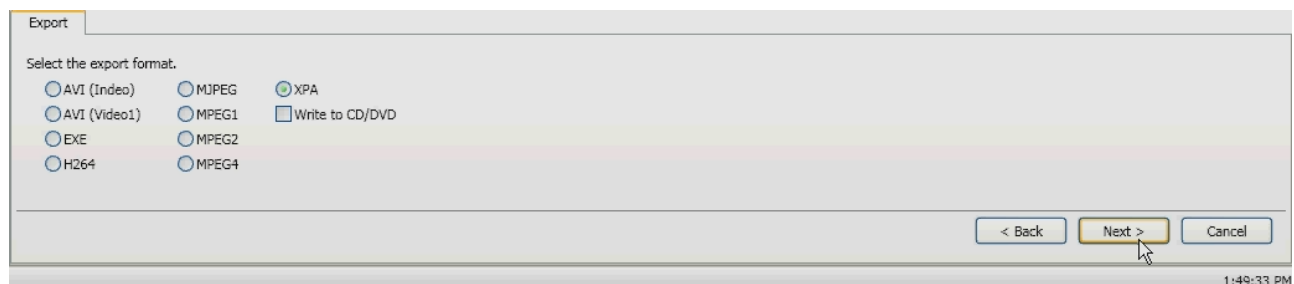


Figure 45. Non-CD/DVD Export Format

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.

NOTE: When connected to a DX product, the AVI export format does not function.

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 46).
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.

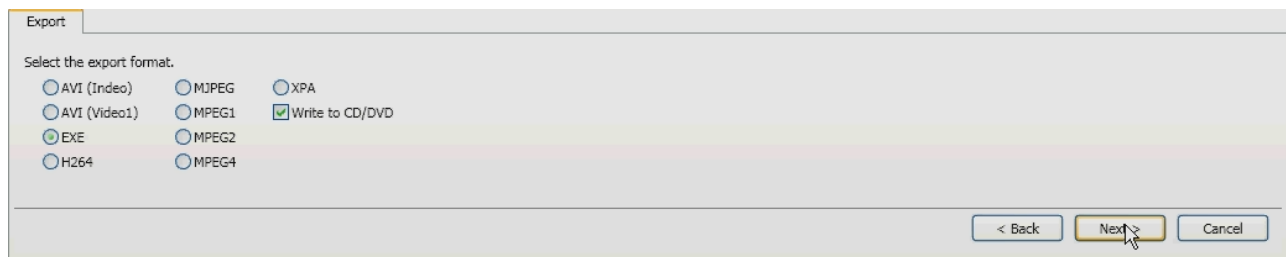


Figure 46. Export Formats

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 DSAdmin. 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 47. 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 48). The PTZ Controls tab provides tools for more precise control of the PTZ-enabled cameras that are currently displaying video.

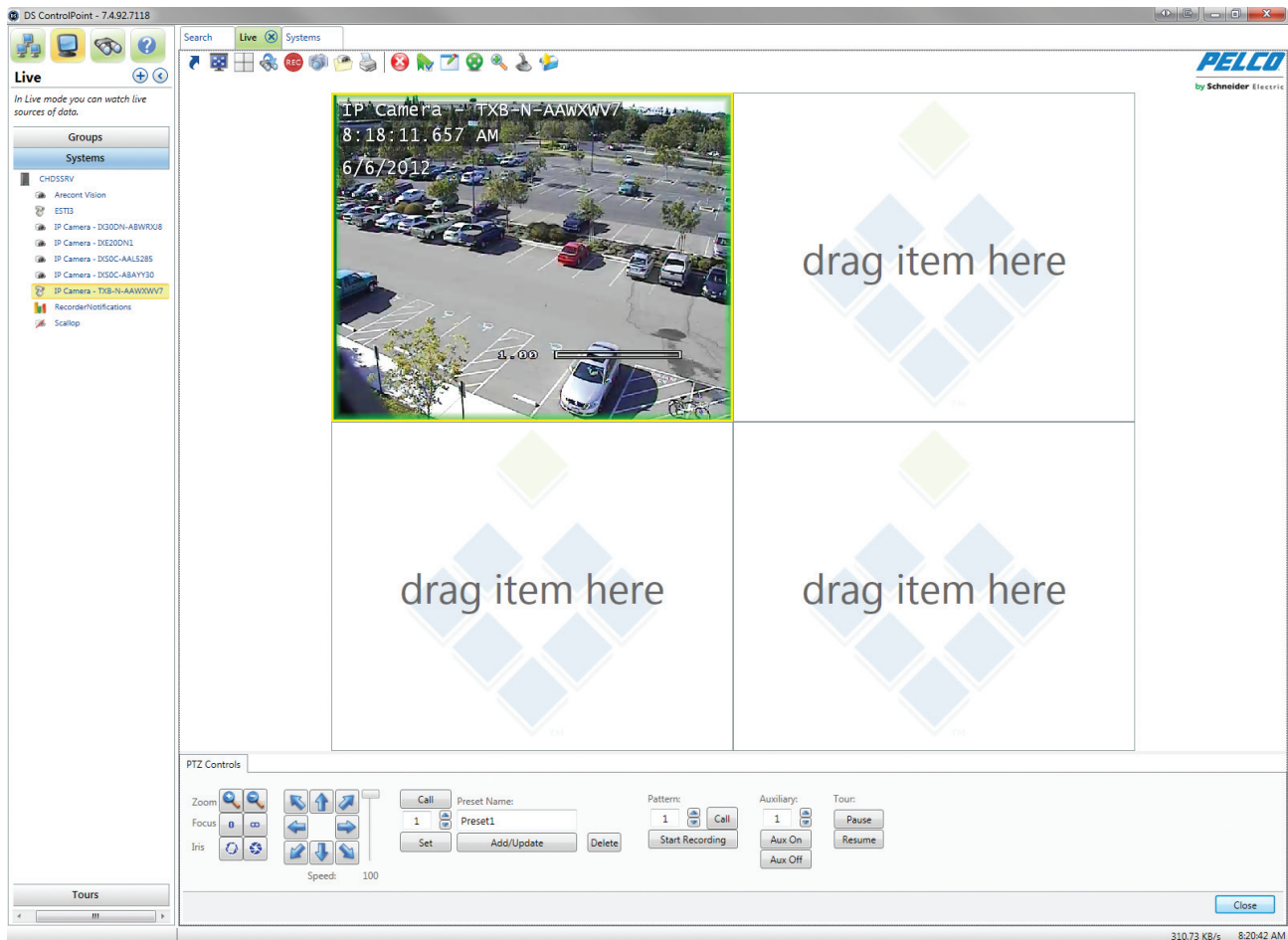


Figure 48. PTZ-Enabled Video with PTZ Controls Tab

CAMERA LENS

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

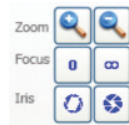


Figure 49. Lens Controls on PTZ Controls Tab

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.

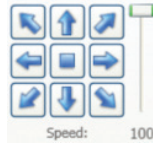


Figure 50. Directional Controls on PTZ Controls Tab

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 51). 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.

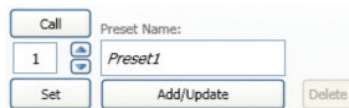


Figure 51. Preset Controls on PTZ Controls Tab

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 52).
3. Call each of the presets that you want to include in the pattern, as described in *Camera Presets* on page 51.

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 52. Pattern Controls on PTZ Controls Tab

AUXILIARY

The Aux On and Aux Off buttons (refer to Figure 53) 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.

NOTE: The PTZ tour has Pause/Resume functionality.



Figure 53. 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

The Belkin converter that is supplied with the KBD300USBKIT does not contain a Microsoft® Windows® driver, and should not be used to automatically connect to any DS ControlPoint installation unless the *ControlPointCache.xml* file has been edited, or unless a PV140 RS-422 to RS-232 interface converter and power supply is connected to COM1 on a compatible PC, laptop, or server.

EDITING *CONTROLPOINTCACHE.XML*

1. Open the *ControlPointCache.xml* file located in the %appdata% directory on the PC to which DSControlPoint has been installed.
2. Change "COM1" in the <KBDSerialPort>COM1</KBDSerialPort> string to the port the USB connection will be on.

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:

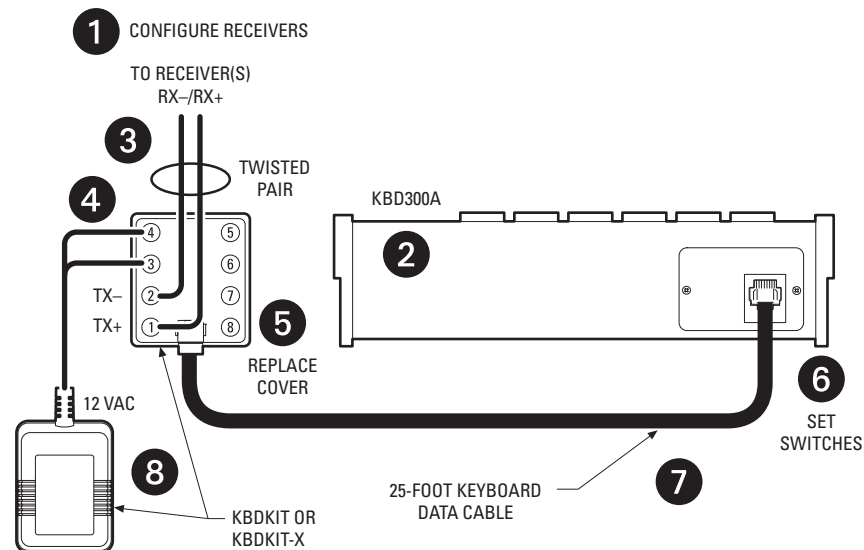


Figure 54. RS-422 Connections

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.

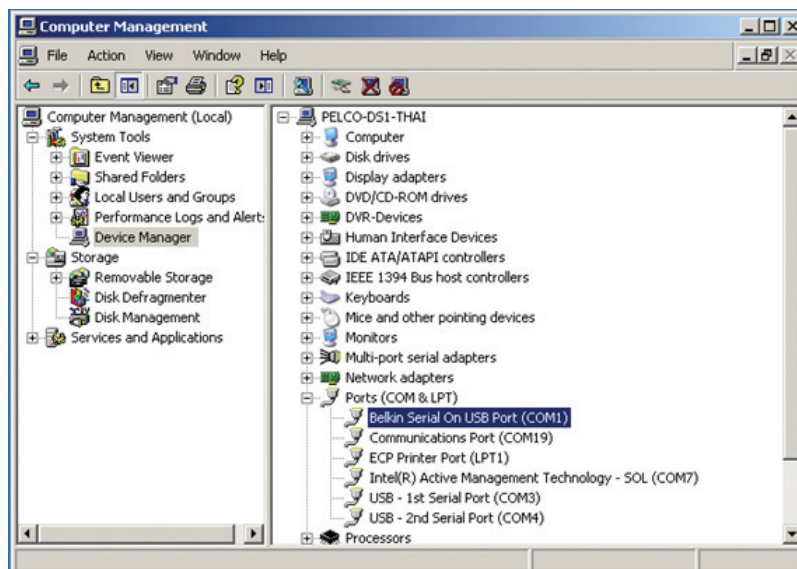


Figure 55. Selecting the Device Manager

2. Right-click USB Serial Port, and then select Properties. The USB Serial Port (COM1) Properties dialog box appears (refer to Figure 56).

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®.

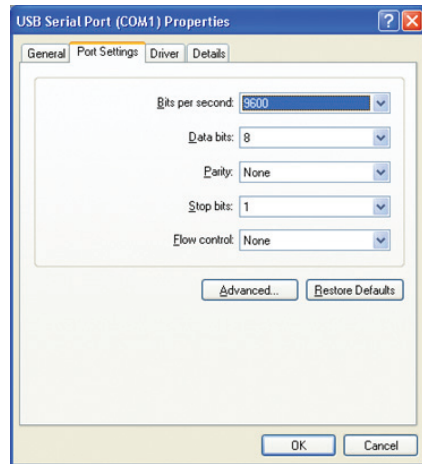


Figure 56. USB Serial Port (COM1) Properties Dialog Box

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

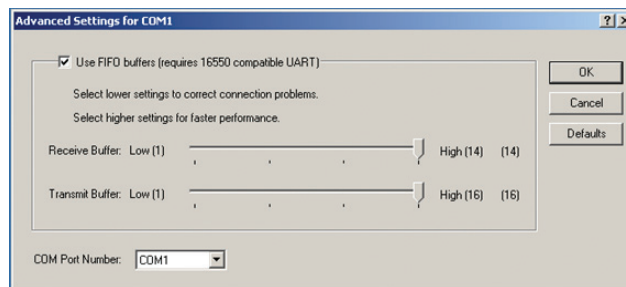


Figure 57. Advanced Settings for COM1 Dialog Box

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

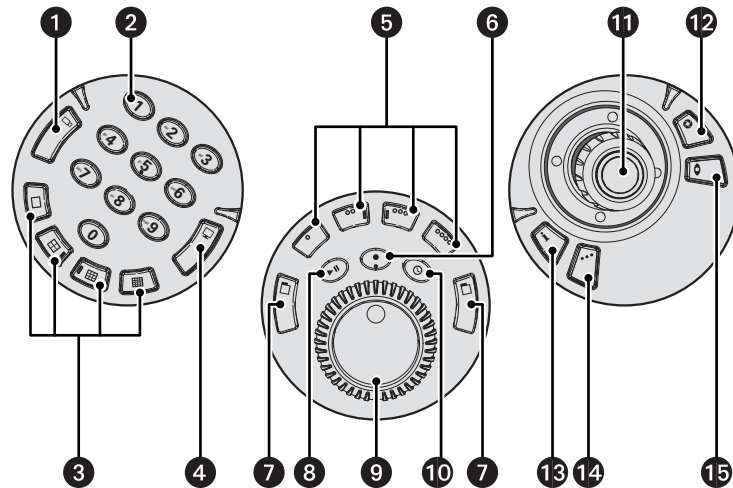


Figure 58. KBD5000 Features

- ❶ Camera Selection
- ❷ Keypad (numbers 0 to 9)
- ❸ Multiple View
- ❹ Monitor Selection
- ❺ Dyn1 and Dyn2: Configures and calls patterns
Dyn3 and Dyn4: Configures and calls presets
- ❻ Quick Review
- ❼ Next/Previous Cameras
- ❽ Play/Pause Video
- ❾ Jog/Shuttle
- ❿ Live Playback Mode
- ⓫ Joystick with Trigger
- ⓬ Iris (Open/Close)
- ⓭ Help
- ⓮ Aux (Auxiliary): Not used with DS ControlPoint
- ⓯ Focus (Near/Far)

KBD5000 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: <ul style="list-style-type: none"> • 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): <ol style="list-style-type: none"> 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.

WARRANTY STATEMENT

For information about Pelco's product warranty and thereto related information, refer to www.pelco.com/warranty.



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 <i>PTZ Controls</i> .
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.
C3674M-J	8/12	Added new features throughout, based on the 7.3.54 release. Updated Warranty.
C3674M-K	3/14	Added warning statement to the Search section.
C3674M-L	6/15	Added notice about ONCAM camera alarm settings and removed the Never Stop setting.

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