

March Networks  
Command 2.7 Player  
**User Guide**

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### Part Number

36844 Rev 1.0, November 2018

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# Chapter 1

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## Welcome to the Command Player

March Networks Command™ Player is a tool that allows you to authenticate and play back recorded video evidence exported from Command Client in the proprietary Command Multimedia Evidence (.cme) file format. This proprietary file format ensures that sensitive video evidence cannot be easily shared over the Internet. Command Player can also display snapshots (single images), and notes.

To ensure that third-party investigators or law enforcement authorities can review evidence copied to external media, the Command Player can be automatically included when evidence files are exported to external media from the Command Client.

**Note:** The Command User Guides are available in English and other languages (Español, Français, Italiano) from the March Networks Partner Portal website. If you cannot access the Partner Portal, contact your March Networks representative.

## Command Player Features

The Command Player includes the following features:

- Normal, fast forward (up to 32X), and rewind (up to -32X) playback
- Zoom and pan features
- Video and image file authentication
- Timeline for quick and easy video search
- Case note display
- Lens dewarping
- Text overlay display

## Installing the Command Player (Optional)

The Command Installation DVD contains the Command Player and the associated user documentation. You can also download the Command Player from the March Networks Partner Portal website.

**Important:** You do not have to install the Command Player: there is a portable version. The portable version is a single .exe file distinguished by the term Portable in the file name:

- 64-bit operating system: MarchNetworksCommandPlayer.**Portable**.<Release\_Num>\_x64.exe
- 32-bit operating system: MarchNetworksCommandPlayer.**Portable**.<Release\_Num>\_x86.exe

You can automatically include the portable file with exported CME (Command Multimedia Evidence) files. The portable version of the Player does not require any installation, you simply double-click the file to launch the Player.

The Command Player can be installed and run on Windows 7 and later operating systems. The Command Player is not supported on Mac operating systems.

For additional information on Command Player system requirements, see the Release Notes available in PDF format from the March Networks Partner Portal website.

Additional Command Solution publications are available in PDF format from the March Networks Partner Portal website. If you cannot access the Partner Portal, contact your March Networks representative.

### To install the Command Player

- 1 Either insert the Command Player software DVD into the computer's DVD drive, or double-click to open the **.exe** file.

**Note:** Select the 64-bit or 32-bit version of the Player, depending on your operating system.

- 64-bit operating system: MarchNetworksCommandPlayer.<Release\_Num>\_x64.exe
- 32-bit operating system: MarchNetworksCommandPlayer.<Release\_Num>\_x86.exe

The **Command Player Setup** wizard appears, with the License agreement for you to read.

- 2 Select the check box to agree to the license terms and conditions.  
You must select this check box to continue.
- 3 (Optional) If you want to change the location of the install folder:
  - a Click the **Options** button.  
The **Setup Options** page appears.

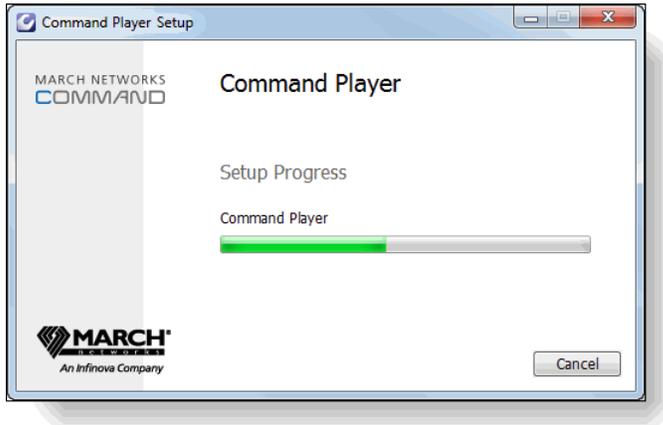


- b Click **Browse** to select a different install folder.
- c Click **OK**.

The License agreement page appears again.

- 4 Click **Install**.

The **Setup Progress** page appears, showing the status of the installation.



When the install is complete, **Setup Successful** appears.

- 5 Click **Close** to exit the Setup wizard.

You can start the installed Command Player from the Start menu or from the shortcut.



# Chapter 2

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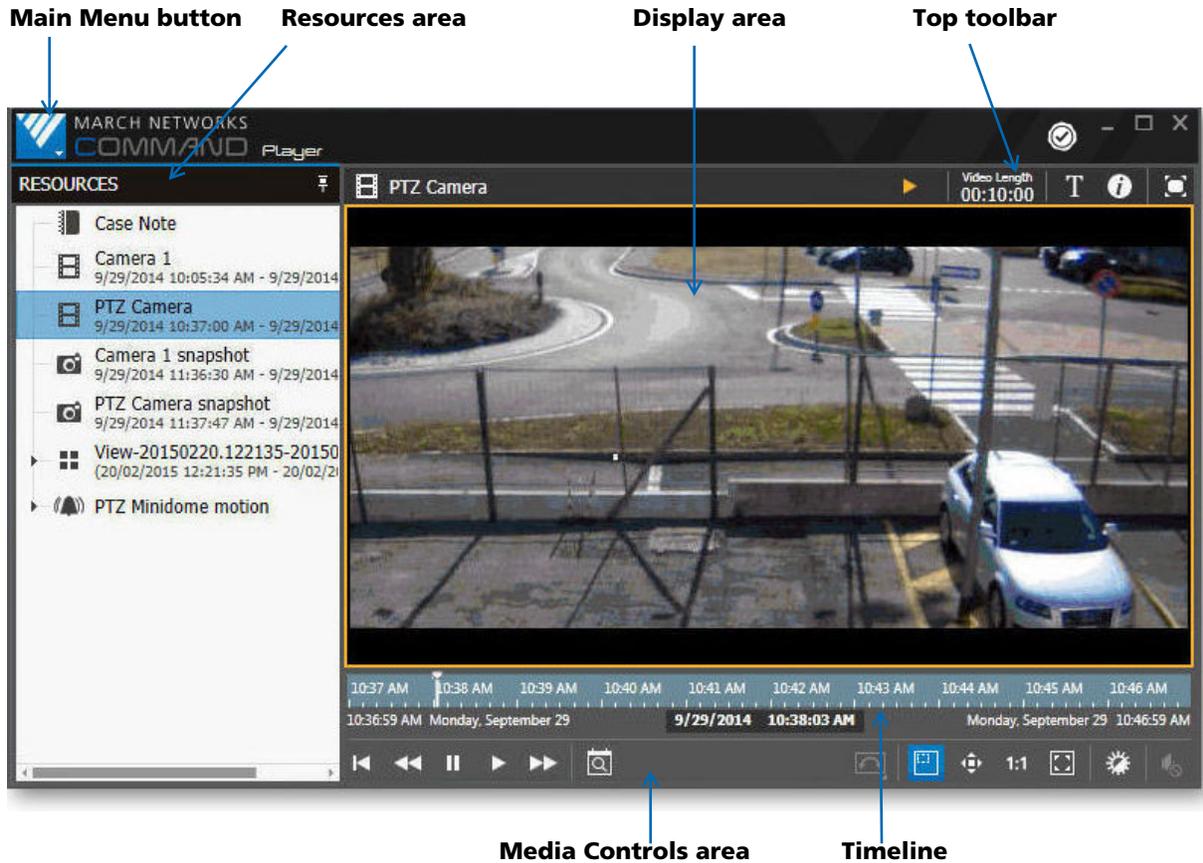
## Understanding the Command Player User Interface

This chapter gives an overview of the Command Player user interface. It contains the following topics:

- “Overview” on page 8
- “Main Menu” on page 9
- “Preferences” on page 10
- “Resources Area” on page 11
- “Top Toolbar” on page 12
- “Display Area” on page 13
- “Media Controls” on page 14

## Overview

The following illustration shows the Command Player user interface.

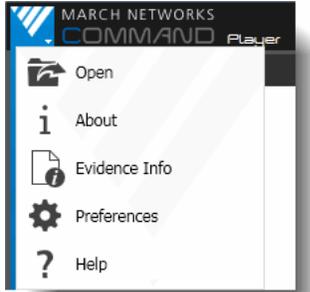


The Command Player offers an interface that consists of the following main graphical areas.

- **Main menu** — The Main Menu button is at the far left. The main menu allows you to open files, view the about information, view information on the current file, or access the help. See “Main Menu” on page 9.
- **Resources area** — The Resources area shows a list of the video, image, and note files currently available to view. See “Resources Area” on page 11
- **Top toolbar** — The Top toolbar contains a status icon, Text button, Information button, and the Full Screen button. At the upper right corner is the Authentication button. See “Top Toolbar” on page 12.
- **Display area** — Located on the right under the Top toolbar, the display area is where you view video, image, and note files. See “Display Area” on page 13.
- **Media controls area** — The media controls area contains the timeline (video files only) and control buttons for video or image files, depending on which you have open in the Player. See “Media Controls” on page 14.

## Main Menu

The **Main Menu** is available from the button on the upper-left of the Command Player screen.



The following table describes the options available from the **Main Menu**.

| Menu Item            | Description  |
|----------------------|--|
| <b>Open</b>          | Open a case file (.cme). A case file can contain video, snapshots, and/or notes. Clicking this option opens a browser window, where you can locate the case file (.cme) that you want to view.   |
| <b>About</b>         | Opens the <b>About</b> box where you can view the version information. <div data-bbox="436 957 1003 1312" data-label="Image"> </div>   |
| <b>Evidence Info</b> | Opens the <b>Evidence Info</b> box, where you can view the name of the file currently open in the Player, the user that created the file, and the server where the file came from. <div data-bbox="436 1438 912 1654" data-label="Image"> </div> |
| <b>Preferences</b>   | Opens the <b>Preferences</b> box, where you can configure video settings. For details on setting the video preferences, see the next section, “Preferences” on page 10.  |
| <b>Help</b>          | Opens the Command Player Help.   |

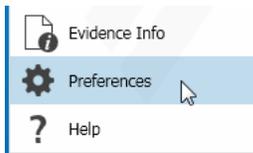
## Preferences

You can configure the settings for video display. You can set interpolation and de-interlacing methods, change the rendering format, and set preferences for video decoding.

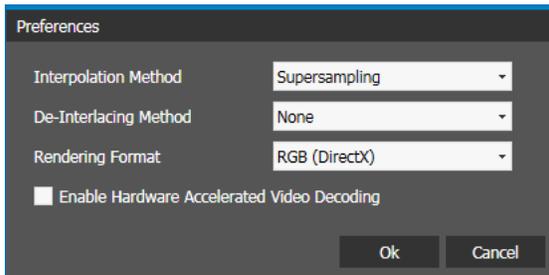
Interpolation and de-interlacing algorithms allow you to improve the quality of the video image, at the cost of an increased CPU workload.

To change the video settings

- 1 Click the button at the upper-left of Command to display the main menu.
- 2 From the main menu, select **Preferences**.



The **Preferences** box opens.



- 3 From the **Interpolation Method** list, select an interpolation algorithm method for the video channels.
- 4 From the **De-Interlacing Method** list, select a de-interlacing algorithm method for the video channels.
- 5 From the **Rendering Format** list, select a format.

The default is **RGB (DirectX)**. If you are working on a system (such as a virtual desktop environment) that does not support Direct3D (part of DirectX), you cannot view video using the default setting of RGB (DirectX).

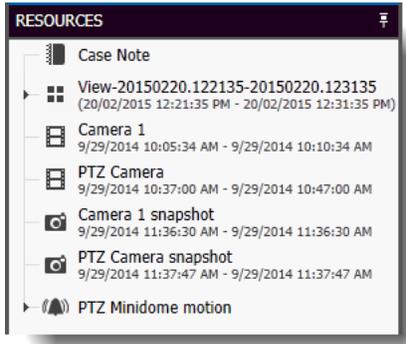
In this case, select the **Bitmap (Software)** option, and video displays normally.

- 6 Select the **Enable Hardware Accelerated Video Decoding** check box if you want to enable the graphics processing unit (GPU) to decode video, which frees the central processing unit (CPU) and saves power.
- 7 Click **OK**.

## Resources Area

The **Resources area** is a list of the resources available for you to view. This list can include multiple video files, view files (multiple videos), image files, and notes.

The list in the Resources area shows the type of resource file, the date of the file, and the time period of the file.



The following table describes the icons available in the **Resources** area.

| Icon  | Description  |
|---|--|
|   | Hide or expand the Resources area.<br>Click this button to hide the Resources area, so that only the title and this button appear. Click it again to expand and view the Resources area.<br>See "Hiding and Expanding the Resources area" on page 23.  |
|  | <b>Note</b><br>Click to open the note or notes in the display area.<br>See "Displaying Notes" on page 24.  |
|  | <b>View file</b><br>Click to open the view in the display area. A view is a grid with multiple video files displayed at the same time.<br><b>Note:</b> You can also expand the view in the Resources area to open each video from the view separately.<br>See "Displaying Views" on page 26. |
|  | <b>Video file</b><br>Click to open the video in the display area.<br>See "Viewing Evidence in the Command Player" on page 20.  |
|  | <b>Image file</b><br>Click to open the image in the display area.<br>See "Viewing Evidence in the Command Player" on page 20.  |
|  | <b>Alarm file</b><br>Click to expand and view the alarm detail notes and open the video in the display area.<br>See "Viewing Evidence in the Command Player" on page 20.   |

## Top Toolbar

The top toolbar is located at the top right of the Command Player. If you are viewing a video file, the following buttons appear.



If you are viewing an image file (snapshot), only the following buttons appear.



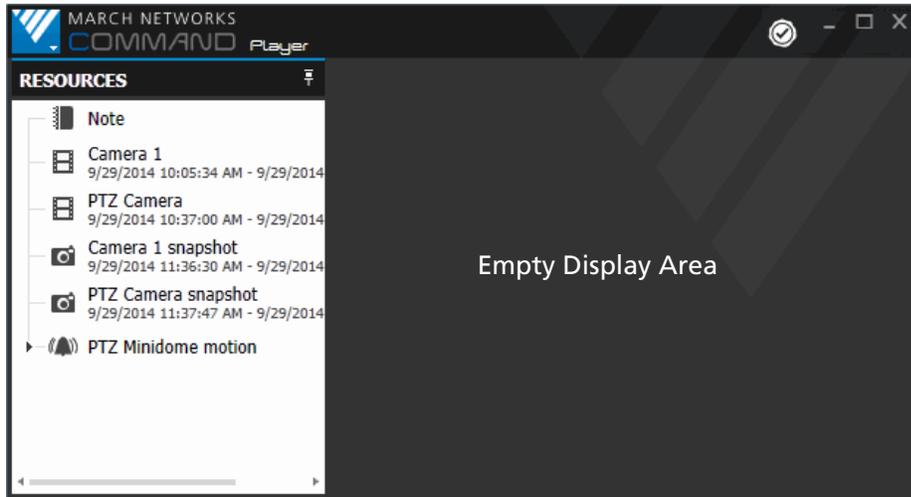
**Note:** If you are viewing a note file, only the Authentication button or icon appears.

The following table describes the buttons available on the Top toolbar.

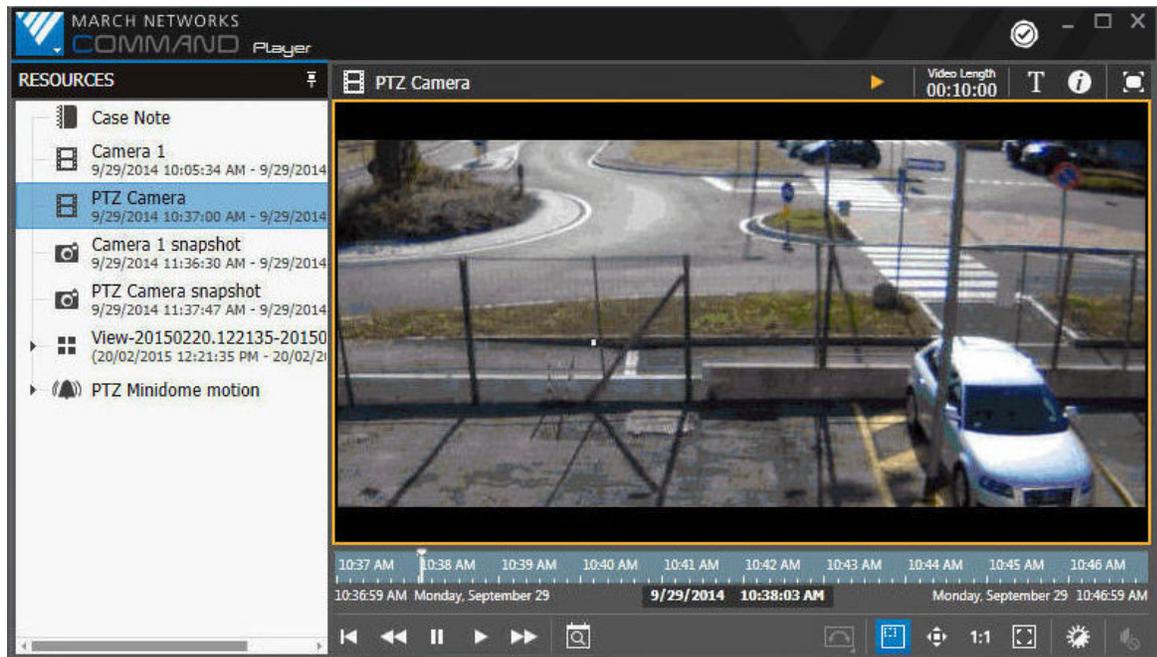
| Button | Tooltip                               | Description  |
|--------|---------------------------------------|--|
|        | <b>Authentication Button / Icon</b>   | <p>When white with a check mark, this is an Authentication button that you can click to authenticate the video or snapshot. The Player examines the file, and the button changes to one of the following authentication icons:</p> <ul style="list-style-type: none"> <li>Green with a check mark — Indicates that the file is authentic and has not been tampered with.</li> <li>Red with an X — Indicates that the file cannot be authenticated, and may have been tampered with.</li> </ul> |
|        | <b>Status Icon</b>                    | The status icon indicates the state of the video file, for example, playing, paused, fast forwarding, rewinding.   |
|        | <b>Text</b>                           | Shows text, if there is text included in the video file.   |
|        | <b>Show Video / Image Information</b> | <p>For a video file, displays the time of the video file, and the status of the file (playing, paused) below the video picture.</p> <p>For an image file, displays the name of the recording device where the image came from.</p>   |
|        | <b>Full Screen</b>                    | <p>Displays the video or image file using the entire monitor.</p> <p>When you are in full screen, the Resources list disappears.</p> <p>To return to the original size from full screen, either:</p> <ul style="list-style-type: none"> <li>Press ESC.</li> <li>Click the Full Screen button again.</li> </ul>   |

## Display Area

The **Display area** is positioned on the right under the **Top** toolbar. The appearance of the display area depends whether you have a video, view, image, alarm, or note file open in it. When nothing is open, the display area is empty.

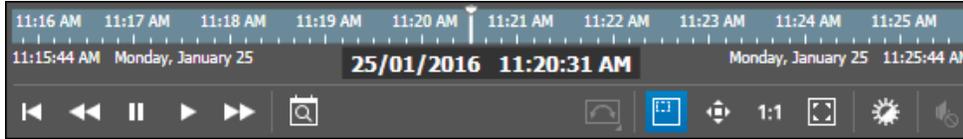


You can open single video files, video views, snapshots (image files), alarm files, and notes in the display area.



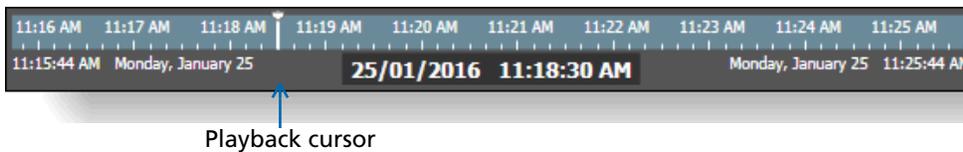
## Media Controls

The **Media Controls** area is where you manage the available media using the timeline and the media toolbar buttons.



## Timeline

The Timeline is above the media toolbar. You can use the timeline, the playback cursor, and the associated media buttons to control the video.



Playback cursor

**Note:** If you are viewing an image file or a note, the timeline does not appear.

## Media Toolbar

The media toolbar contains buttons that allow you to control the settings for video and play video.



If you are viewing an image file, only the following buttons appear.



**Note:** If you are viewing a note file, no buttons appear.

The following table describes the buttons in the media toolbar.

| Button  | Tooltip               | Description   |
|---|-----------------------|---|
|  | <b>Go To Start</b>    | Goes to the beginning of the recorded video.  |
|  | <b>Play Backwards</b> | <p>Rewinds the video.</p> <p>Click multiple times to increase the speed. The status icon above the video shows the backward speed: -1X, -2X, -4X, -8X, -16X, or -32X. </p> <p><b>Note:</b> Click the Play Forward button to decrease the speed.</p> <p>When the playback is paused, jumps to the previous frame (backward in frame-by-frame mode).</p> |

| Button  | Tooltip                    | Description   |
|---|----------------------------|---|
|    | <b>Pause</b>               | Pauses video playback.  |
|    | <b>Play</b>                | Plays the video.  |
|    | <b>Play Forward</b>        | <p>Fast forwards the video.</p> <p>Click multiple times to increase the speed. The status icon above the video shows the forward speed: 2X, 4X, 8X, 16X, or 32X. </p> <p><b>Note:</b> Click the Play Backwards button to decrease the speed.</p> <p>When the playback is paused, jumps to the following frame (forward in frame-by-frame mode).</p>  |
|    | <b>Timeline Find</b>       | <p>Opens the date/time search panel.</p> <p>See "Using the Timeline to Search a Video File" on page 30.</p>   |
|    | <b>Lens Dewarping</b>      | <p>Opens the lens dewarping menu.</p> <p>See "Dewarping Images" on page 36.</p>   |
|    | <b>Select Area To Zoom</b> | <p>Selects the area you want to zoom in.</p> <p>See "Using Digital Zoom" on page 34.</p>  |
|   | <b>Move Zoom Area</b>      | <p>Moves the zoom area. (Pan zoom.)</p> <p>See "Using Digital Zoom" on page 34.</p>   |
|  | <b>Real Image Size</b>     | <p>Refreshes the image to show the original image size.</p> <p>See "Using Digital Zoom" on page 34.</p>   |
|  | <b>Fit To Window</b>       | <p>Fits the image to the current size of the Command Player display area.</p> <p>See "Using Digital Zoom" on page 34.</p>   |
|  | <b>Video Enhancements</b>  | <p>Allows you to adjust the sharpness, brightness, and contrast of the video picture.</p> <p>See "Adjusting Sharpness, Brightness, and Contrast" on page 32.</p>  |
|  | <b>Adjust Volume</b>       | <p>Controls the audio volume, if applicable.</p> <p>If the video file contains audio, you can modify the audio volume or mute the channel by clicking the <b>Adjust Volume</b>  button on the timeline toolbar. You can use the <b>Audio</b> slider to modify the volume or click the Adjust Volume button below the slider to mute the channel.</p> <div style="display: flex; align-items: center; margin-top: 10px;">  <div style="margin-left: 10px;"> <p>Audio<br/>Slider</p> </div> </div> |

# Chapter 3

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## Viewing Video, Image, and Note Files

Command Player allows you to view video files exported from Command in the CME (Command Multimedia Evidence) file format.

This chapter describes how to access, view, and manipulate video, image, and note files.

It contains the following topics:

- “Viewing an Evidence File” on page 17
- “Authenticating Files” on page 29
- “Using the Timeline to Search a Video File” on page 30
- “Adjusting Sharpness, Brightness, and Contrast” on page 32
- “Displaying Text Overlay” on page 33
- “Using Digital Zoom” on page 34
- “Dewarping Images” on page 36

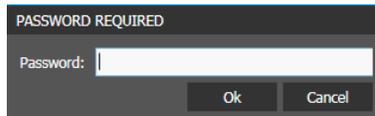
## Viewing an Evidence File

You can view an evidence file in the Command Player using the portable version or the installed version of Command Player.

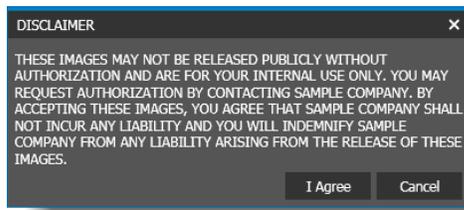
An evidence file can contain a single video, a single image, a single note, or multiple videos and/or multiple images, with or without notes.

**Note:** When you open an evidence file in Command Player, it may require a password and/or your acceptance of a disclaimer.

If the video file is encrypted, a **Password Required** dialog box appears and you must enter the password assigned to the video file before you can view it. The password is assigned to the video file when it is created.



If a **Disclaimer** dialog box appears, you must accept the terms of the disclaimer before you can view the file.



The following sections describe:

- “Opening Evidence Using the Portable Command Player” on page 17
- “Opening Evidence Using the Installed Command Player” on page 18
- “Viewing Evidence in the Command Player” on page 20
- “Displaying Notes” on page 24
- “Displaying Views” on page 26
- “Displaying Alarms” on page 28

## Opening Evidence Using the Portable Command Player

If the exported CME files are copied to an external device such as a USB stick, you can also include the Portable Command Player (a single .exe file), which allows a user to view the CME files without installing the Command Player. This is useful for users that do not have installation rights on the computer where they want to view the files, such as third-party investigators or law enforcement authorities.

### To open an evidence file using the Portable Command Player

- 1 Double-click the Command Player Portable file to open the Player.

The Player opens without files loaded.



- 2 Click the **Open**  button.
- 3 In the window that appears, browse for the CME file you want to view, select the file and click **Open**.
 

**Note:** When you open an evidence file in Command Player, it may require a password and/or your acceptance of a disclaimer:

  - If the video file is encrypted, a **Password Required** dialog box appears and you must enter the password assigned to the video file before you can view it.
  - If a **Disclaimer** dialog box appears, you must accept the terms of the disclaimer before you can view the file.
- 4 The file is loaded into the Player, where you can review it (see “Viewing Evidence in the Command Player” on page 20).

## Opening Evidence Using the Installed Command Player

After you have installed the Player, you can use it to view Command Multimedia Evidence (.cme) files. With the installed version of the Player, you can simply double-click any CME file to automatically launch the Command Player with the file loaded. You can also open the Player from the Windows Start menu or Start screen.

### To open an evidence file using the installed Command Player

- 1 Double-click the CME file you want to open.

The Command Player launches.

**Note:** When you open an evidence file in Command Player, it may require a password and/or your acceptance of a disclaimer:

- If the video file is encrypted, a **Password Required** dialog box appears and you must enter the password assigned to the video file before you can view it.
- If a **Disclaimer** dialog box appears, you must accept the terms of the disclaimer before you can view the file.

- The CME file appears in the Player.



- You can now review the file (see “Viewing Evidence in the Command Player” on page 20).

To open the installed Command Player

- Click **Start > March Networks > Command Player** .

The Player opens without files loaded.

- Click the **Open**  **Open** button.
- In the window that appears, browse for the CME file you want to view.
- Select the file and click **Open**.

**Note:** When you open an evidence file in Command Player, it may require a password and/or your acceptance of a disclaimer:

- If the video file is encrypted, a **Password Required** dialog box appears and you must enter the password assigned to the video file before you can view it.
- If a **Disclaimer** dialog box appears, you must accept the terms of the disclaimer before you can view the file.

- The file is loaded into the Player, where you can review it (see “Viewing Evidence in the Command Player” on page 20).

## Viewing Evidence in the Command Player

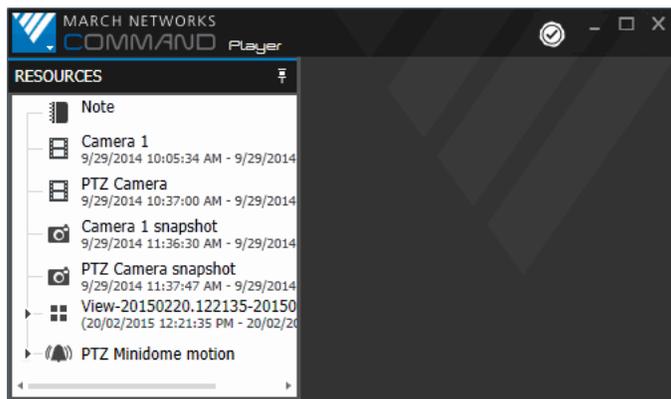
After you have opened the CME file in the Command Player (installed version or portable version), you can view the files that it contains in the display area.

### To view CME files in the Command Player

- 1 Open the Command Player using one of the methods described in the sections above (“Opening Evidence Using the Portable Command Player” on page 17 or “Opening Evidence Using the Installed Command Player” on page 18).
- 2 If there is only one media file included, the single video, image, or note file automatically opens in the display area. The Resources panel is closed at the left side.



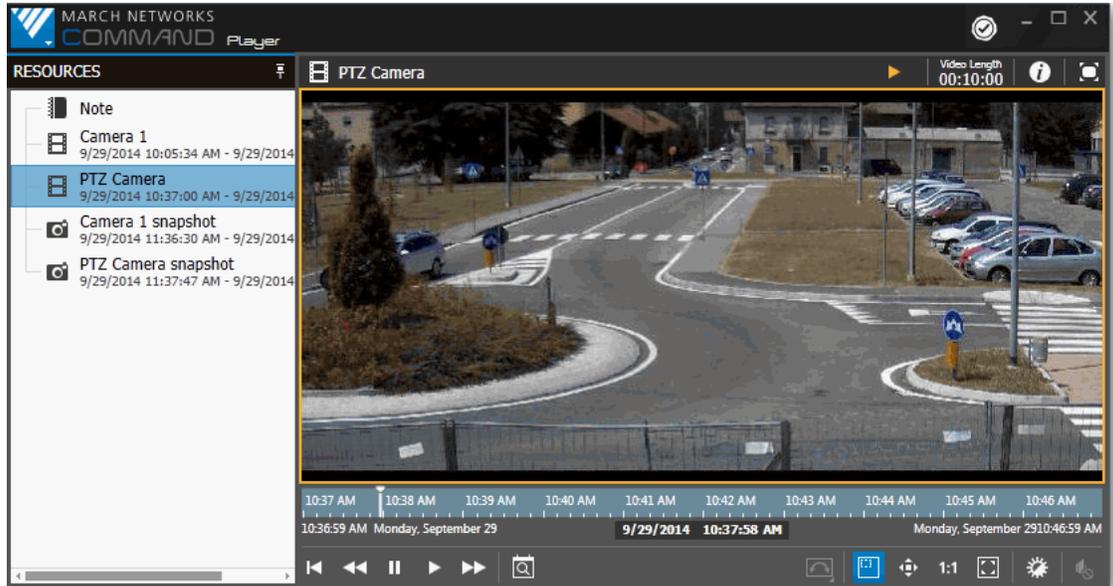
- 3 If there are multiple media files included in the CME file, the Player shows the files in the Resources list and the display area is empty.



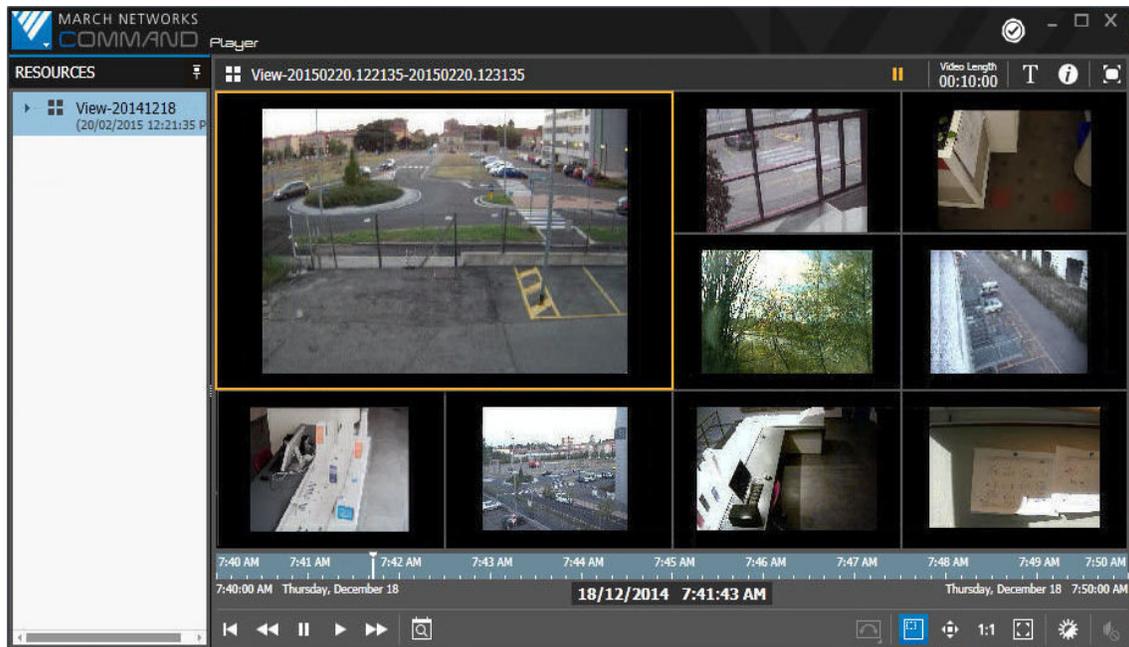
- 4 If there are multiple files, click a video  file, a view  file, an image  file, an alarm  file, or a note  file in the **Resources** list.

The video, view, image, or note file opens in the display area.

A video file opens in the display area:

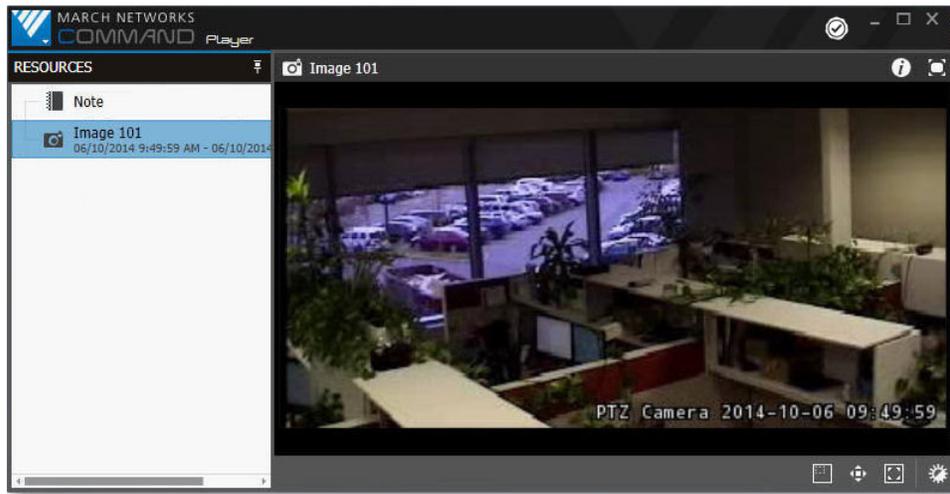


A view file opens in the display area:

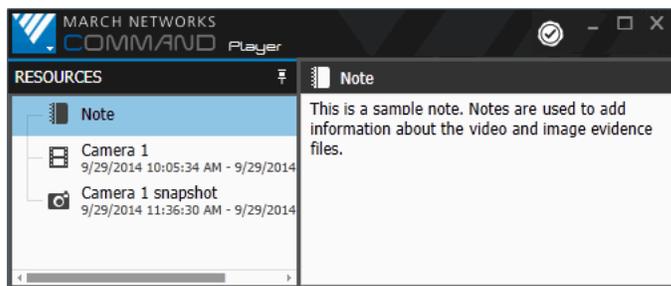


**Note:** All the videos in a view are synchronized to the same time.

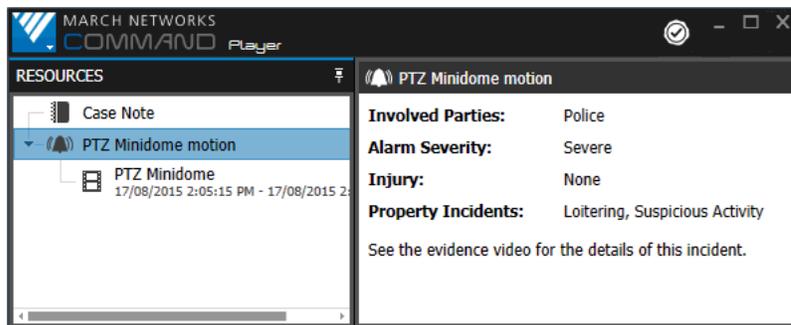
An image file opens in the display area:



A note file opens in the display area:



An alarm file opens in the display area:



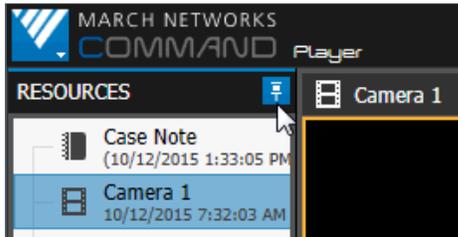
**Note:** The video files associated with the alarm also open in the display area.

## Hiding and Expanding the Resources area

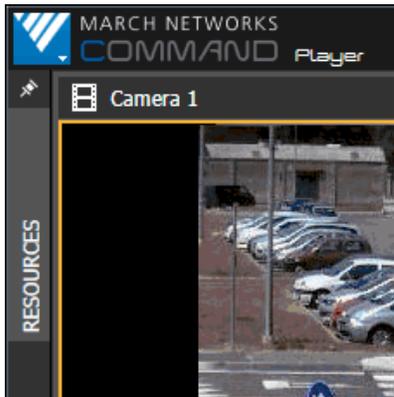
You can hide the Resources area to view more of the display area. This is especially useful if you are viewing a file with only one resource.

To hide or expand the Resources area

- 1 In Command Player, click the pin  button in the title bar of the Resources area.



The Resources area is hidden at the side of the Player, so that only the title (now vertical) and the pin button appear.

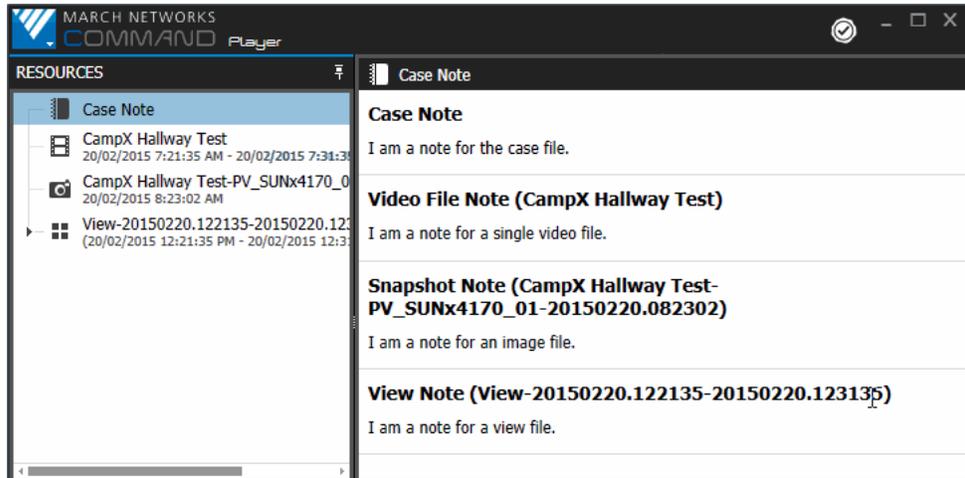


- 2 Click the pin button again to expand and view the Resources area. The Resources area is restored and shows the list of icons again.

## Displaying Notes

Multiple note files can be added to a case.

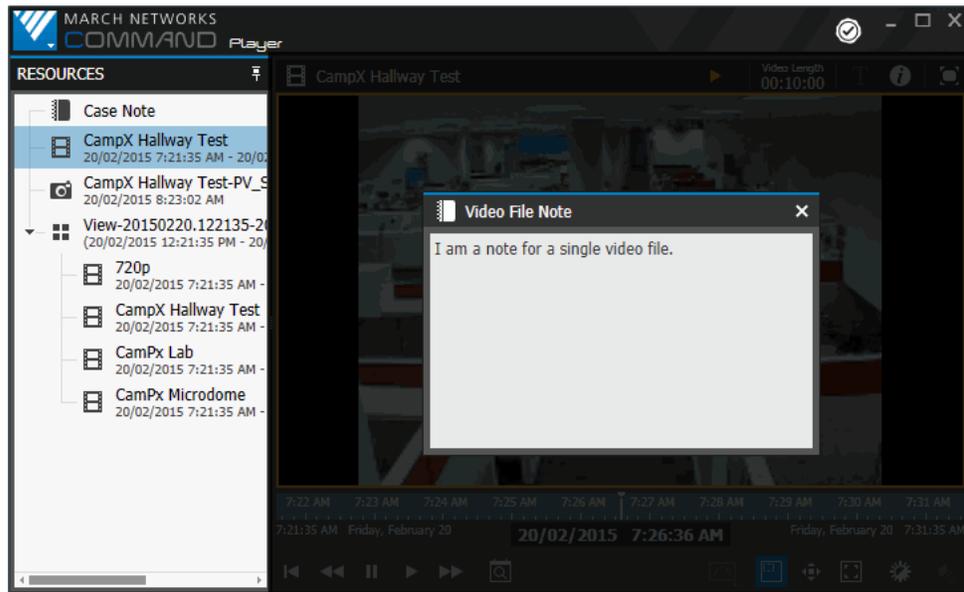
- When there are multiple notes, you can click the Note icon in Resource area and all the notes appear in the display area. The title of the note indicates which resource it is associated with.



- When you open a video, view, or snapshot in the Display area and move the mouse over the display area, a note icon appears in the upper right corner of the display area.



- Click the note icon to view the note associated to the resource.



Click the **x** in the upper right corner of the note to close it.

## Displaying Views

When you want to display a view file, you can open it in the grid format and see all the videos at once, or you can open each video included in the view separately.

When you open a view in the grid format, the videos all play synchronously. You can adjust the display of each video separately.

### Playing a view

When you are displaying the view in grid format, all the videos are time synchronous - they play, pause, and respond to the timeline together. The playback buttons control all the videos in the grid, no matter which video is selected. For example, when you click Play, all the videos in the grid play together. When you move the playback cursor on the timeline, all the videos move to the new time.



Playback buttons

### Adjusting the display of videos in a view

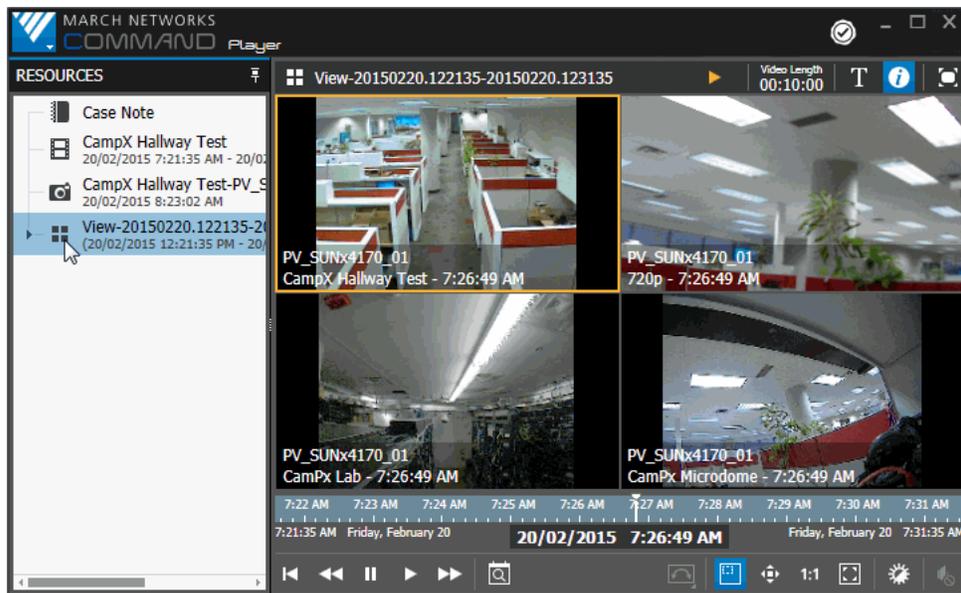
You can select a single video in the view grid when you want to use the Zoom buttons (Select Area to Zoom, Move Zoom Area, Fit to Window), the Video Enhancements button, or the Adjust Volume button. (Also the Lens Dewarping button, if applicable to the video.) The selected video in the grid is displayed with an orange border, and only the selected video responds to these buttons.



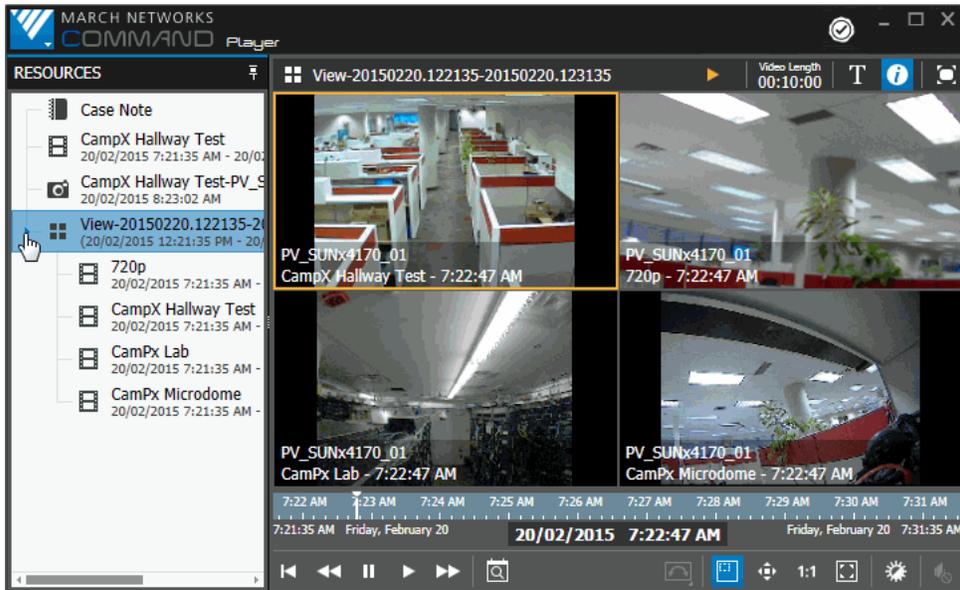
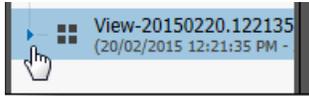
Adjust Display/Volume buttons

### To display and expand view files

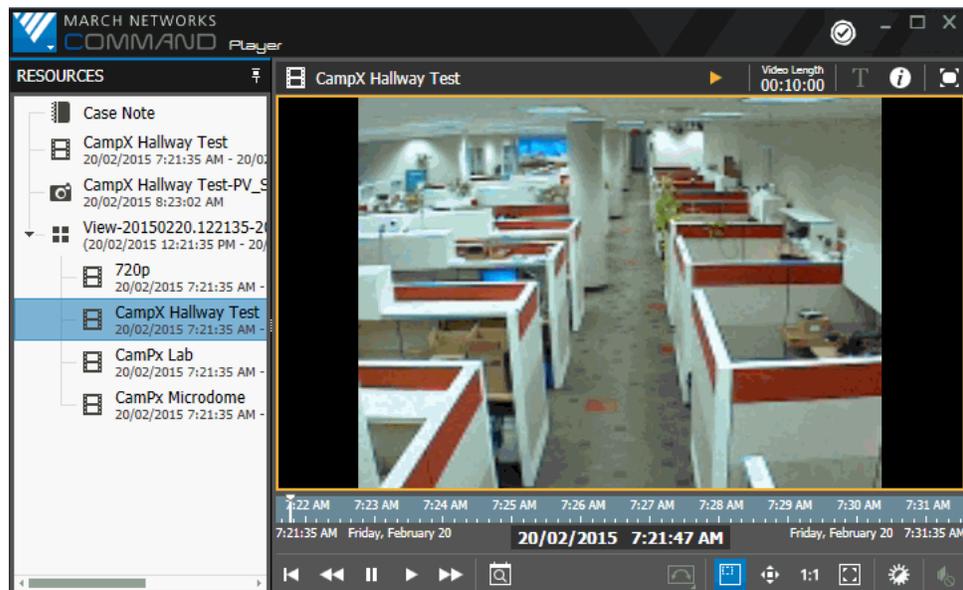
- 1 Click the View  icon in the Resources area to see the grid view.



- To expand the view, move the mouse over the arrow to the left of the View  icon. The mouse pointer changes and you can click to open the view and see the individual video files in the Resources area.



- When the view is expanded in the Resources area, you can click one of the video  icons to see the individual video in the Display area.

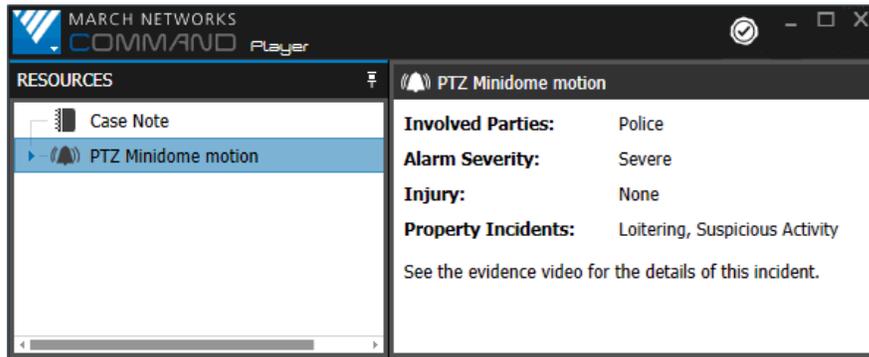


## Displaying Alarms

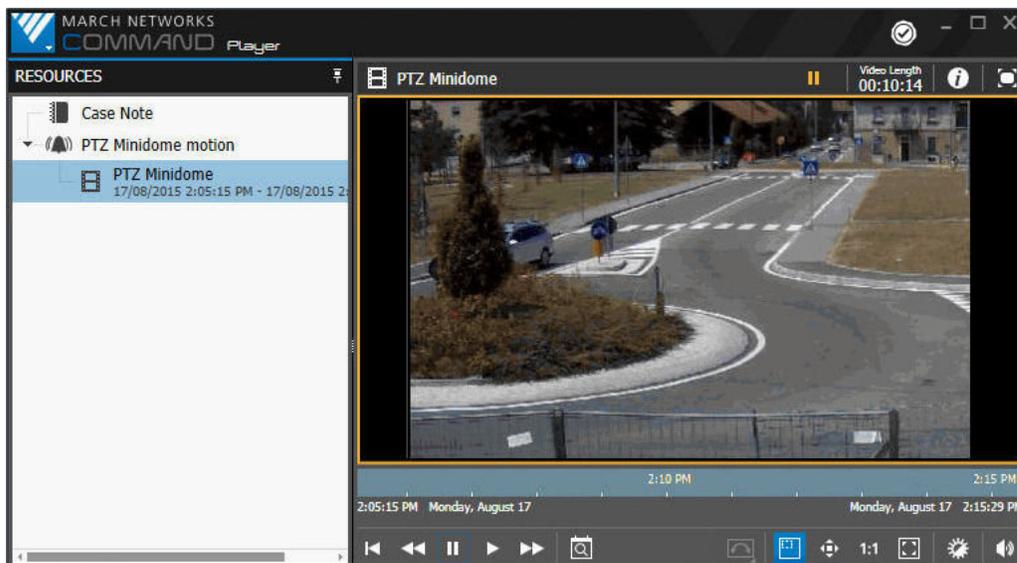
You can click on the alarm icon to view the text of the alarm details, including any notes. You can expand the alarm to view associated alarm video.

To display and expand alarm files

- 1 Click the Alarm  icon in the Resources area to see the alarm details and notes.



- 2 To expand the alarm, move the mouse over the arrow to the left of the Alarm  icon. The mouse pointer changes and you can click to open the alarm and see the alarm video files in the Resources area. Click an individual video  icon to view the alarm video in the Display area.



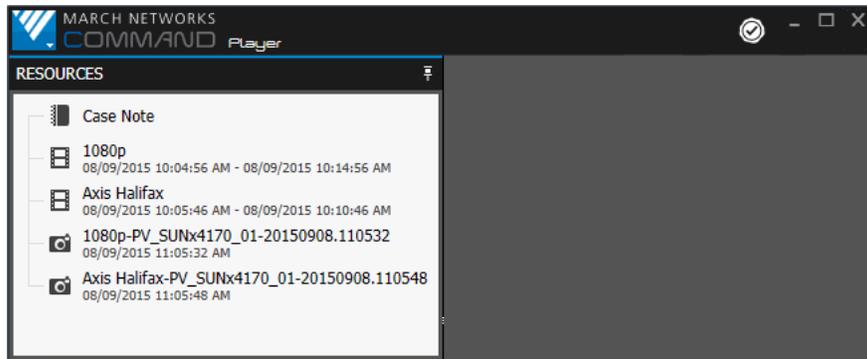
## Authenticating Files

A file exported to the CME format contains March Networks authentication. The Command Player allows you verify that the file you open is authentic and has not been tampered with.

To authenticate a file

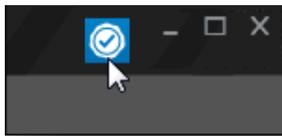
- 1 Open a CME file.

The file appears in the Command Player.



**Note:** You can authenticate any CME file, including file with single or multiple snapshots, videos, and views. You do not have to open anything in the display area.

- 2 Click the **Authentication**  button.



The Player checks the entire CME file and displays either:

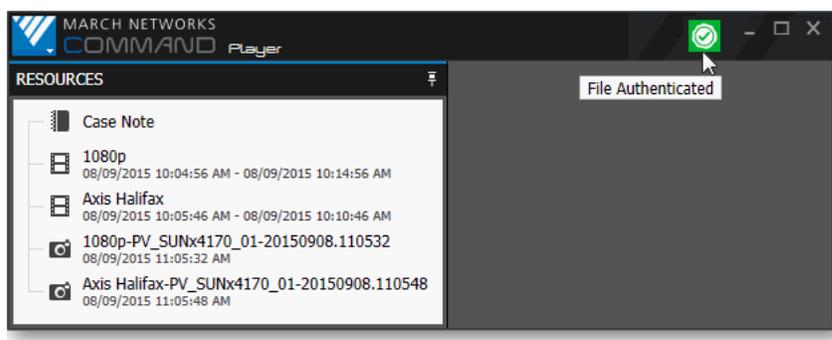


A green check mark icon, indicating that the file is verified authentic.



A red X icon, indicating that the file cannot be authenticated, and may have been tampered with.

The following graphic shows the Command Player with the **File Authenticated** icon.



## Using the Timeline to Search a Video File

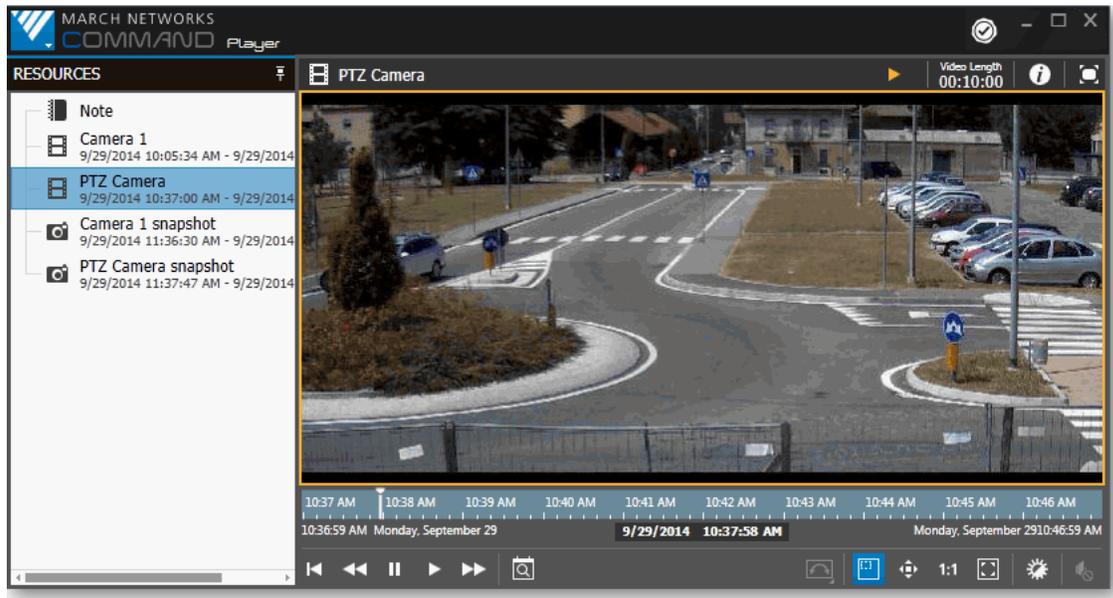
You can select the starting point for video playback by clicking on the timeline. The timeline cursor moves to the point on the timeline where you click, and the video playback starts from that point. The timeline cursor moves along the timeline as the video plays. You can also click and drag the timeline cursor. By using the timeline, you can easily locate the video you want in a few clicks.

You can also use the Timeline Find feature to pinpoint an exact date and time.

To use the Timeline Find feature to search video

- 1 Open a video file in the Command Player.

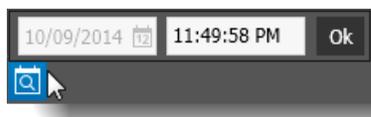
**Note:** You can also open a View file and use the Timeline Find feature to search the video in a grid view.



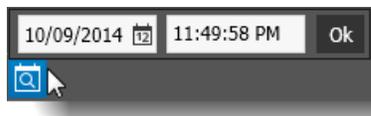
- 2 Click the **Timeline Find**  button.

The search fields appear.

If the video in the file you are searching occurred during one day, the date field is unavailable and you can only select the time. If the video spans multiple days, you can select the date as well as the time.

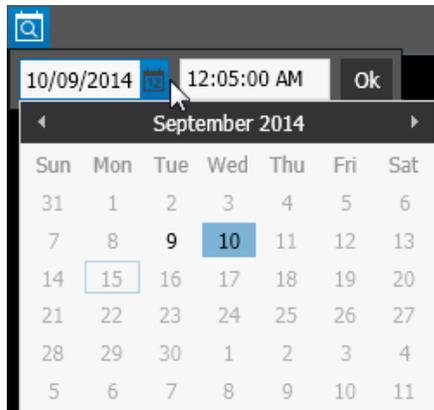


Search fields for video from one day (Date field unavailable)



Search fields for video from multiple days

- If you are selecting a date, you can click the calendar icon beside the date to launch a calendar. Use the calendar to select the date that you want. Only valid dates for the current video are available to select.



- Enter the time that you want to search for in the time field.

**Tip:** To change the AM to PM (or PM to AM), position the mouse cursor next to the AM or PM and use the up and down arrow keys on your keyboard to switch from one to the other.

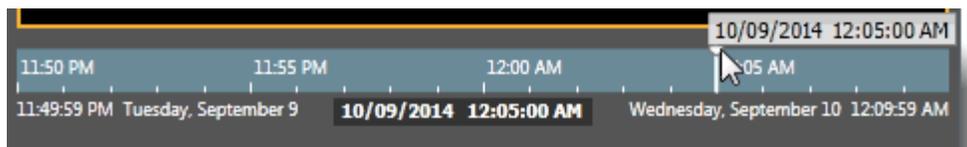


- Click **OK**.

The video file jumps to the time and date that you set. The playback cursor shows the point on the timeline.



**Tip:** You can move your mouse over the playback cursor to view the exact date and time.



## Adjusting Sharpness, Brightness, and Contrast

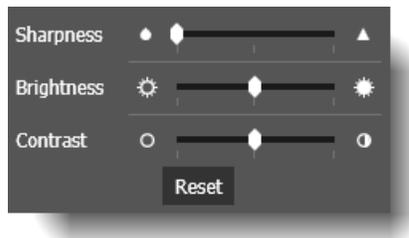
Command Player allows you to instantly adjust the sharpness, brightness, and contrast of the video or image file.

**Note:** Changes to these settings are not permanent. When you switch to a different video or image file, the sharpness, brightness, and contrast return to their default values.

To adjust the settings

- 1 With a video or image file open, click the **Enhancements**  button.

The **Enhancements** menu appears.



- 2 Move the sliders for delicate modifications to the image **Sharpness**, **Brightness**, and **Contrast** levels.

The modifications are instantly applied to the video or image.

- 3 Click outside the Enhancements menu to close it.

**Tip:** To reset sharpness, brightness, and contrast to the default values, click the **Reset** button. (When you close the video or image file, the effects are automatically reset to their default values.)

## Displaying Text Overlay

Command Player allows you to display superimposed text if it exists in the video or image file.



If text overlay exists in an image file it is displayed and you cannot remove it.

If text overlay exists in a video file, you can choose whether to show or hide it. Text is hidden by default.

### To show text overlay

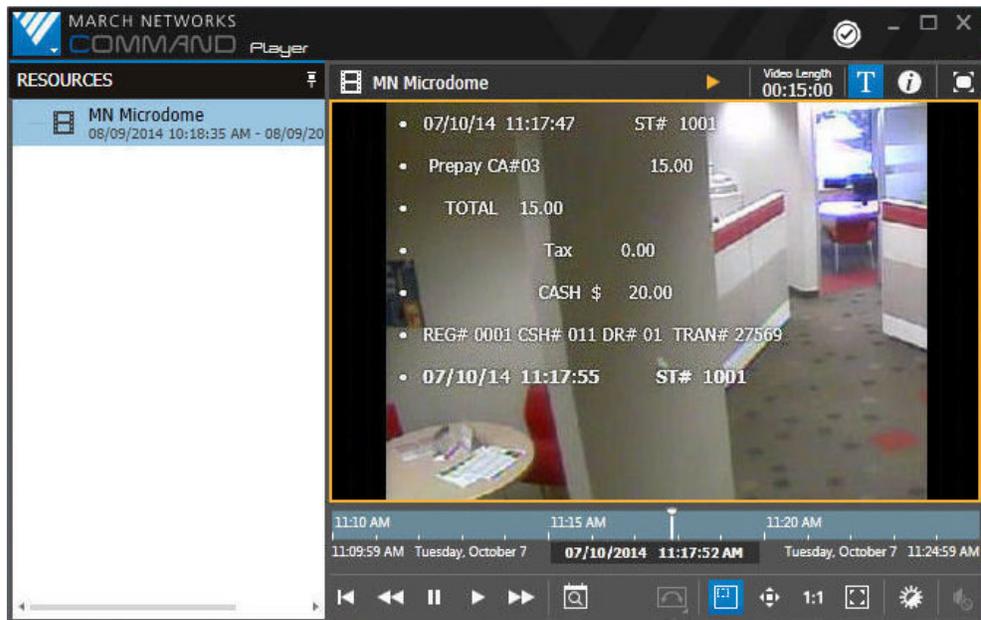
- 1 Open a CME video file that contains text overlay.

The video is displayed without the text.

- 2 To show the text, click the **Show Text Information**  button.

The **Show Text Information** button changes to the selected state , and the text is displayed over the video image.

Click the button again to hide the text.



## Using Digital Zoom

You can use Command Player's built-in digital zooming capabilities to zoom in on an object within the video or image file.

**WARNING:** Zooming in digitally results in a loss of video definition.

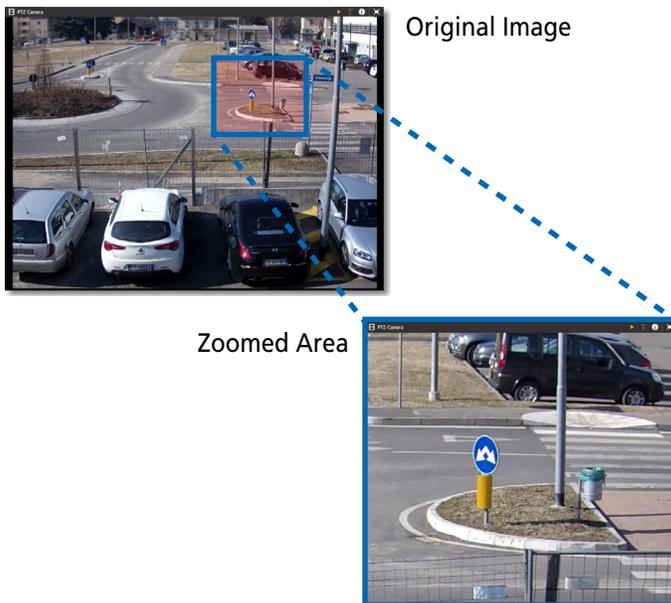
### Zooming in or out on a Video or Image file

Use the zoom feature to move to a close-up shot of an object in the video or image file, and to move back out of the close-up.

#### To zoom in or out

- 1 Click the **Select Area To Zoom**  button.
- 2 To select the area you want to zoom in on, click and drag.

Command Player zooms to the selected area.



- 3 To zoom in and out, roll the mouse wheel up and down.

**Note:** To show the whole video or image in the display area again without zoom, either roll the mouse wheel down until the image is not zoomed, or click the **Fit to Window**  button.

### Moving in the Zoom Area

When a video or image file is zoomed using the **Select Area To Zoom** button, you can move the area of interest to focus on the precise part of the image that you want to view.

#### To move in the zoom area

- 1 Click the **Move Zoom Area**  button.

- 2 Hold the left mouse button down on the image.  
The cursor changes to indicate that you can move the zoom area.



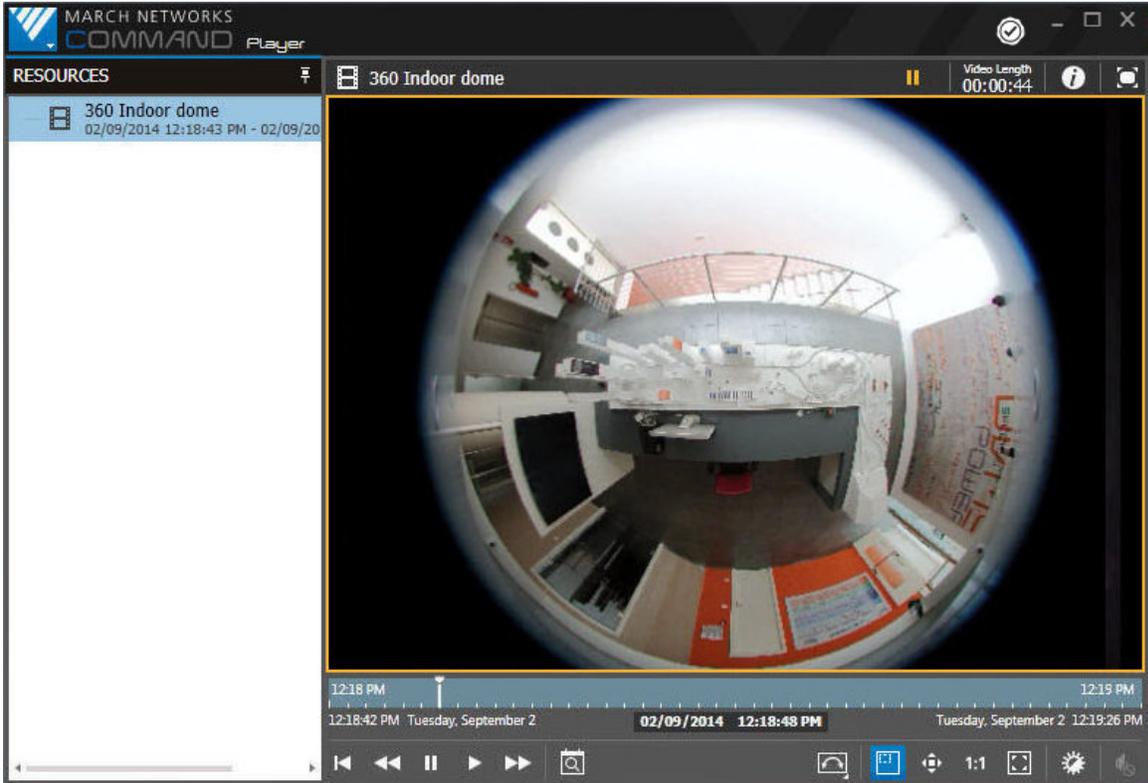
- 3 Move the mouse to navigate within the zoomed image. The pointer changes again to an arrow indicating the direction of movement, and the image or video file shows the new area as you move across it.



**Note:** To show the whole video or image in the display area again without zoom, either roll the mouse wheel down until the image is not zoomed, click the **Real Image Size**  button, or click the **Fit to Window**  button.

## Dewarping Images

Certain panoramic cameras with special lenses support 360° views. When you view the images from these cameras, they have a distorted appearance (often referred to as a *fisheye view*). To view the images without this distortion, you must use lens dewarping.

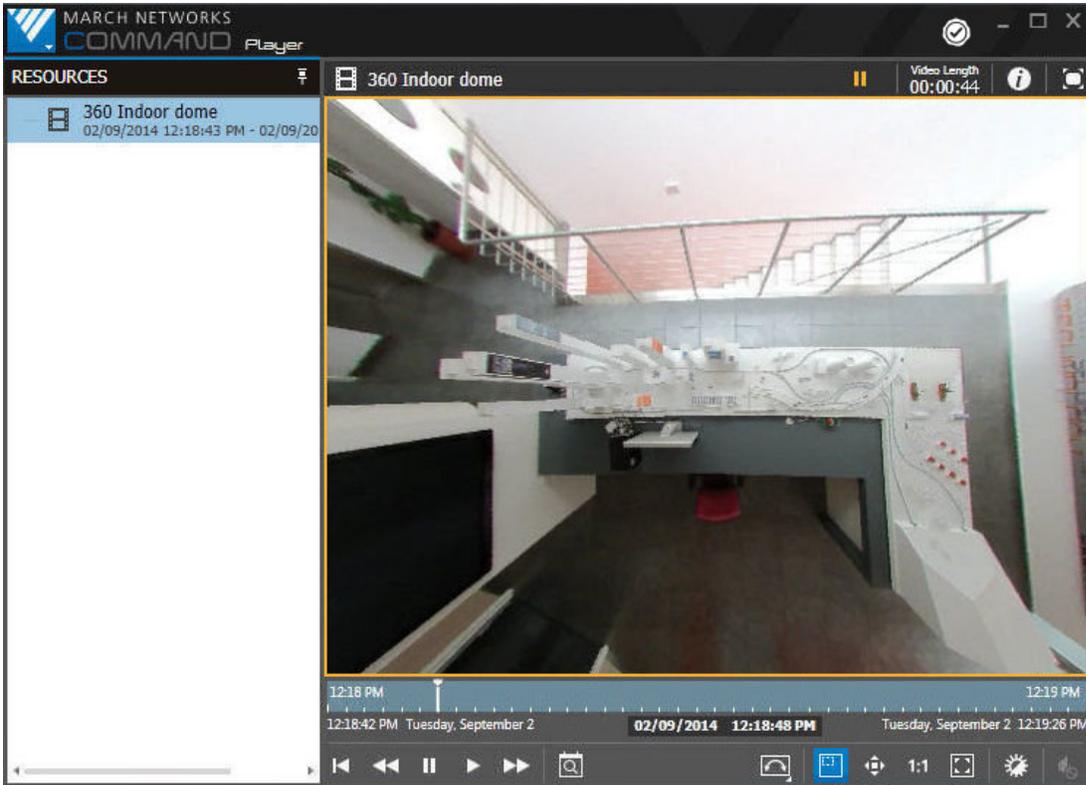


Depending on the camera you are using and the mounting position of the camera, you can dewarp the image using **Virtual PTZ**, **Perimeter View**, or **Split Perimeter View**:

- The **Virtual PTZ** option dewarps the image and allows you to navigate around the entire 360° image by emulating PTZ controls and applying digital zoom.
- The **Perimeter View** option dewarps the original fisheye view into a single 360° view for a ground or ceiling mounted camera or into a single 180° view for a wall mounted camera.
- The **Perimeter Split View** option dewarps the original fisheye view into two 180° views (the 360° view divided into two views) for a ground or ceiling mounted camera. This option is not available for a wall mounted camera.

## Dewarping using Virtual PTZ

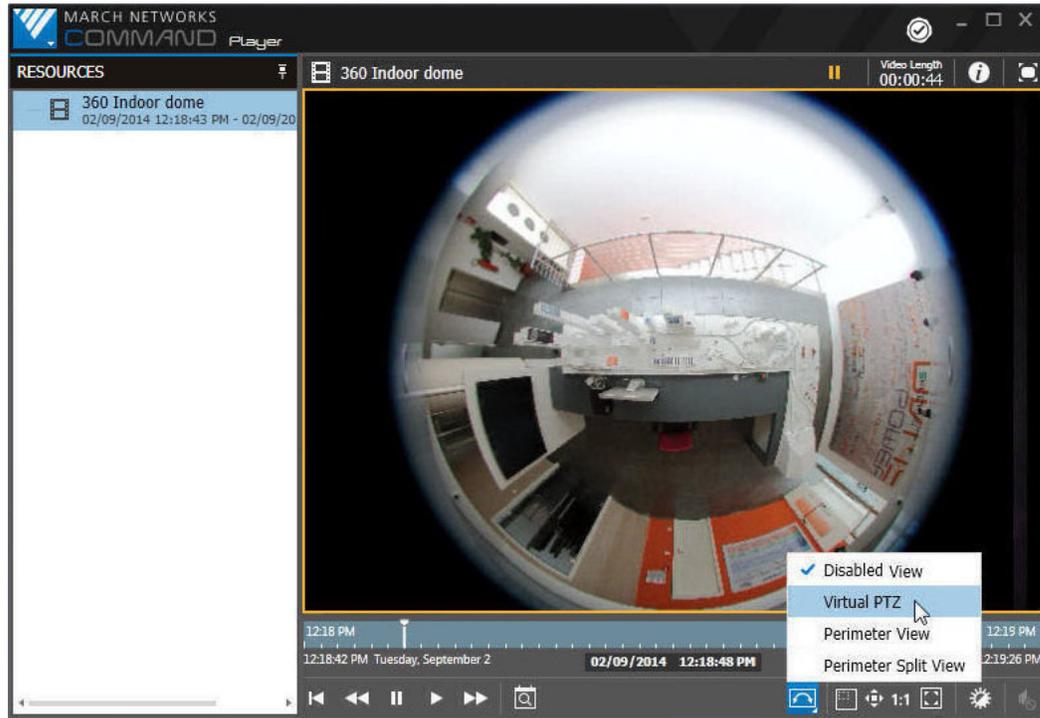
When you select Virtual PTZ, the image is dewarped to emulate a PTZ camera view, and you can navigate in the image using the digital zoom controls.



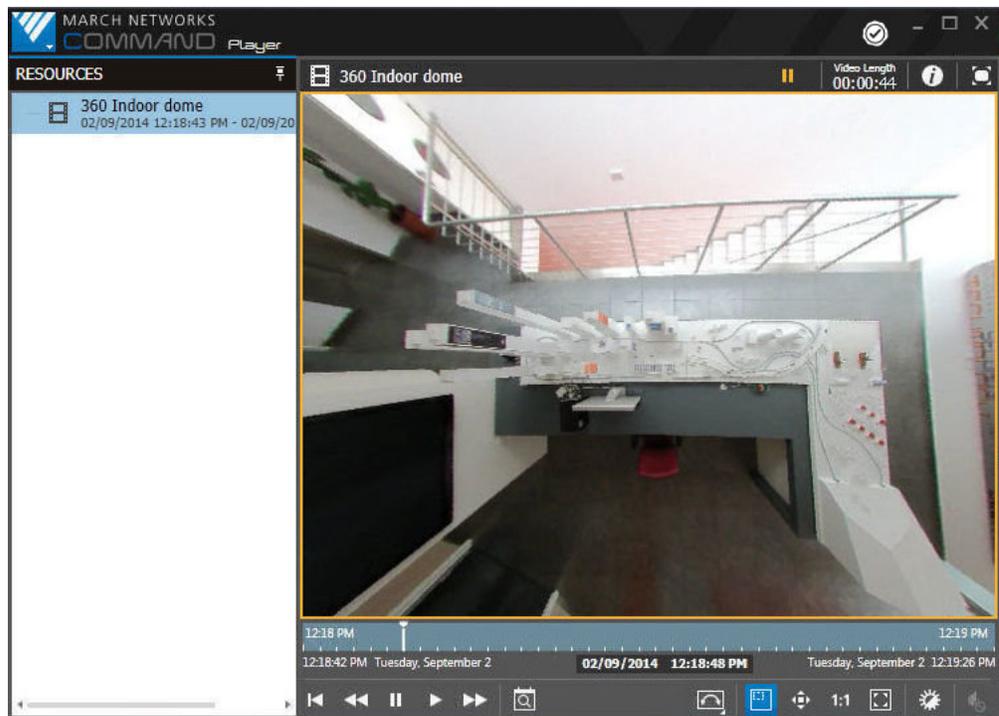
To dewarp an image using the Virtual PTZ option

- 1 Open a video file from a camera that supports Virtual PTZ. The video initially appears in the default fisheye format.

- 2 Click the **Lens Dewarping**  button and select **Virtual PTZ**.

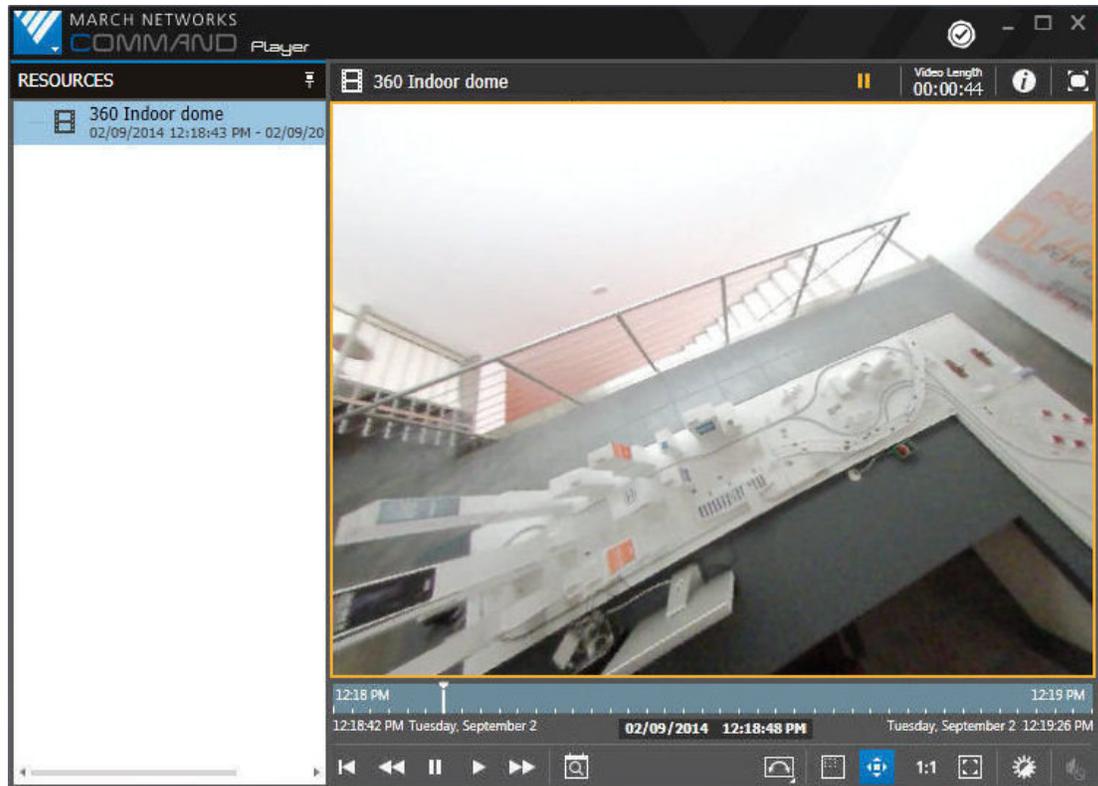


The image automatically zooms to display the center.



- 3 You can adjust the area of interest by doing one of the following:
- Click the **Move Zoom Area** button , hold the left mouse button down on the image, and move the mouse to navigate within the image. Press the SHIFT button to toggle to the **Select Area To Zoom** mode .
  - Hold the left mouse button down on the image, press the SHIFT button and move the mouse to navigate within the image.
  - Click once on the image to center the image again.

The mouse moves the image's field of view, similar to a PTZ camera.



- 4 To zoom in and out, do one of the following:
- Scroll the mouse wheel up and down.
  - Click the **Select Area To Zoom** button , click and drag to select the area you want to zoom in on.

The image zooms to the selected area.

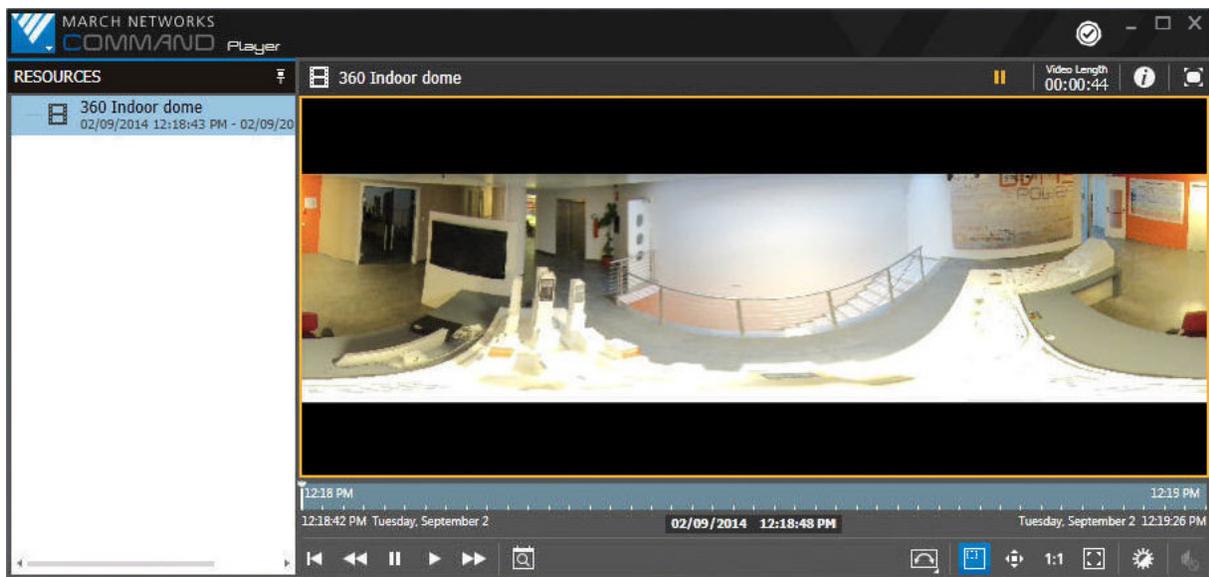
## Dewarping using Perimeter or Perimeter Split View

Certain panoramic cameras support perimeter views. When you select the perimeter option, the video image changes from the circular *fisheye* view to a more traditional rectangular image. The rectangular image is either one 180° view, two 180° views, or one 360° view, depending on where the camera is mounted.

If the camera is mounted vertically, with the lens pointing up or down (for example, mounted on the ground or the ceiling), you can choose the perimeter view option, which shows one full 360° view around the camera, or the split perimeter view option, which divides the 360° view, and shows two 180° views.

If the camera is mounted horizontally, with the lens pointing to the side (for example, on a wall), there is only one perimeter option, which shows one 180° view.

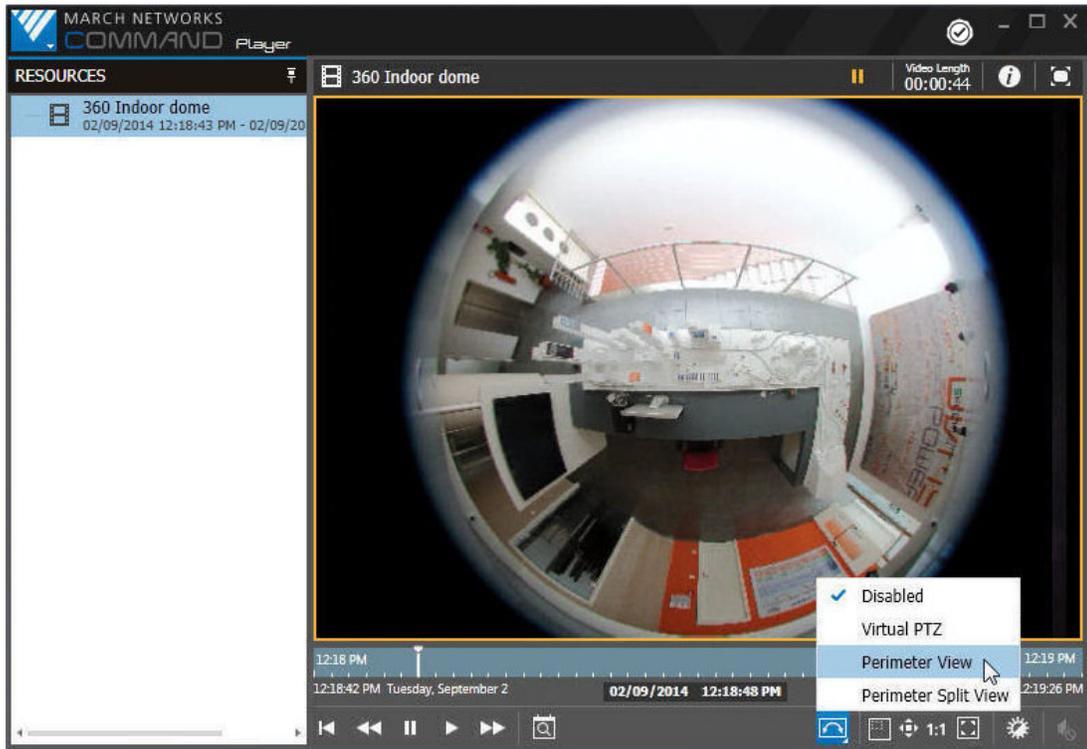
Perimeter view from a ceiling mounted camera:



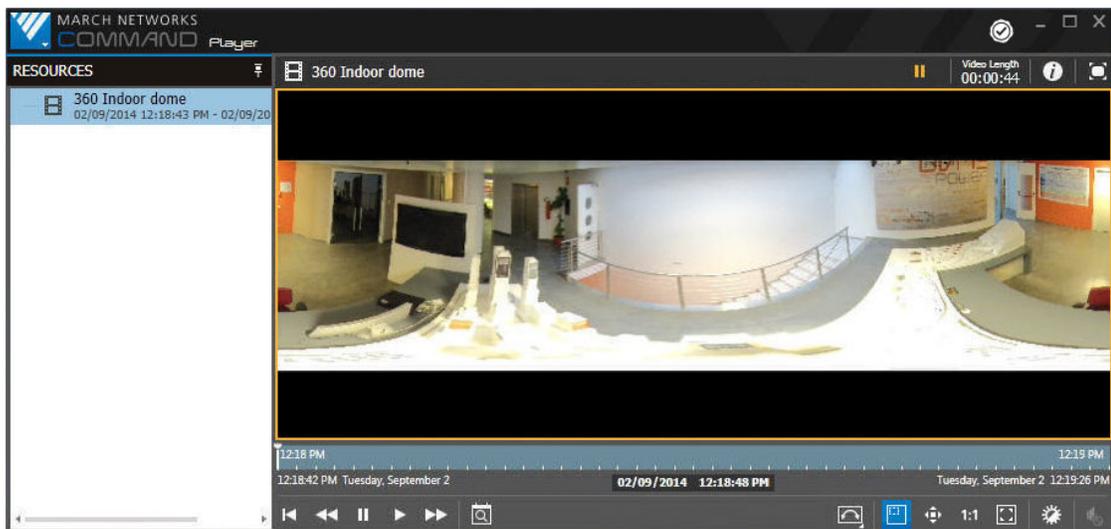
To dewarp an image from a ceiling or ground mounted camera using Perimeter View or Perimeter Split View

- 1 Open a video file from a camera that supports perimeter views. The video initially appears in the default fisheye format.
- 2 Click the **Lens Dewarping**  button and select either:

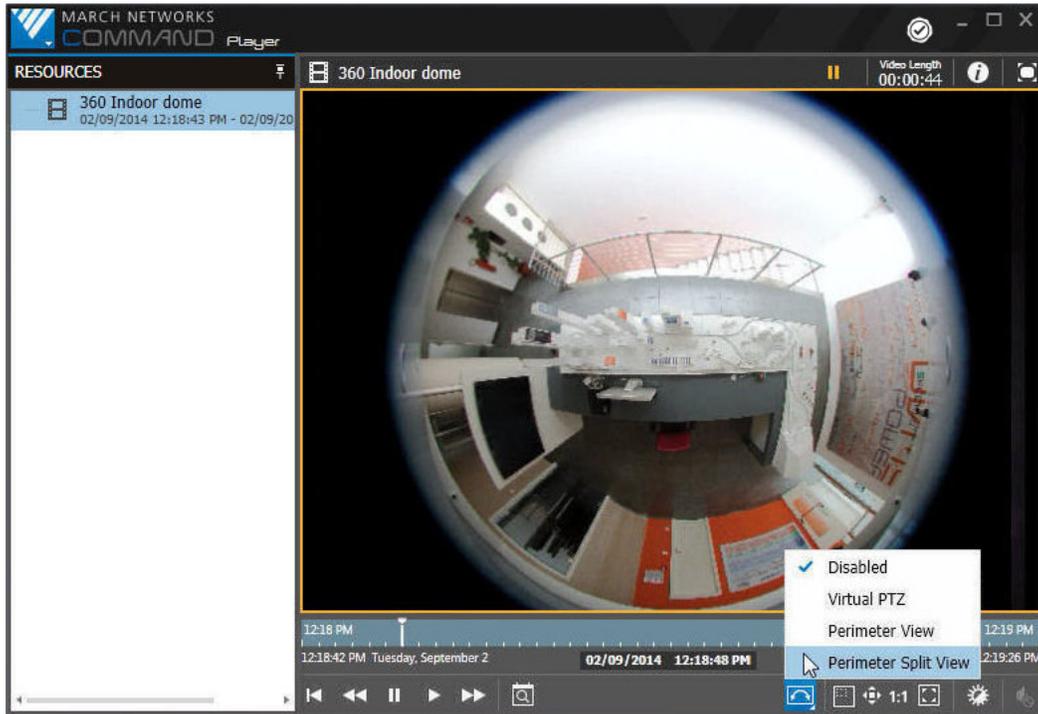
- **Perimeter View**



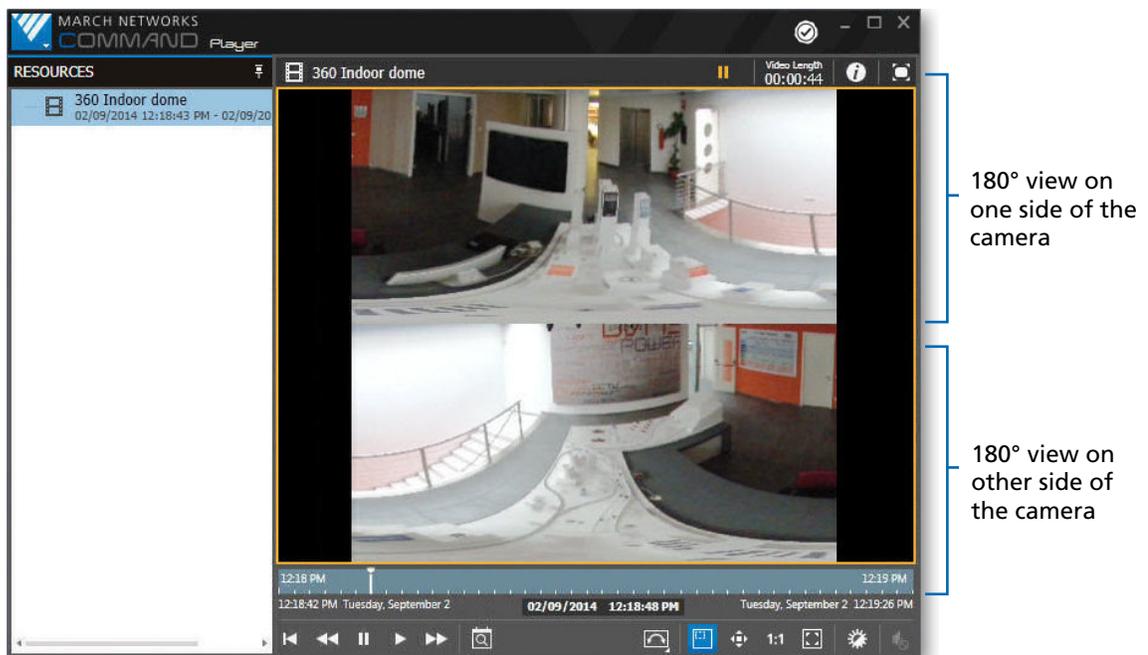
The Command Player shows the entire 360° view around the camera.



- **Perimeter Split View**

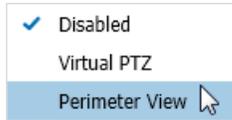


The Command Player shows two 180° views, that together form the entire 360° view around the camera.

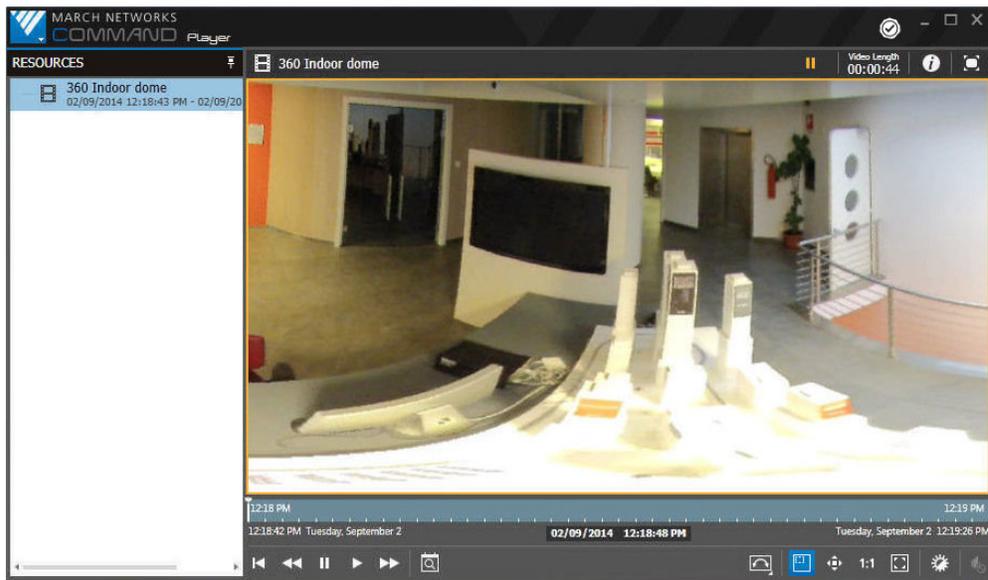


### To dewarp an image from a wall mounted camera using Perimeter View

- 1 Open a video file from a wall-mounted camera that supports perimeter views. The video initially appears in the default fisheye format.
- 2 Click the **Lens Dewarping**  button and select **Perimeter View**.



**Note:** Perimeter Split View is not an available option for a wall mounted camera. The Command Player shows the 180° view in front of the camera.



180° view  
in front of  
the camera

# Glossary

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## Command Client

An interface that allows users to review and export recorded video evidence, and to view video from cameras connected to recording devices. The Command Client is the source of the evidence files you view in Command Player (videos, images, and notes).

## Dewarping

Certain panoramic PTZ cameras with special lenses support 360° views. When you view the video or images from these cameras, they have a distorted appearance (often referred to as a *fisheye* view). To view the images without this distortion, you must use lens dewarping.

The dewarping options offered by Command Player include Virtual PTZ, Perimeter View, and Split Perimeter View.

## Perimeter View and Split Perimeter View

Perimeter View is a dewarping feature that turns the original fisheye view into a single 360° view for a ground or ceiling mounted camera or into a single 180° view for a wall mounted camera.

The Perimeter Split View is a dewarping feature that turns the original fisheye view into two 180° views (the 360° view divided into two views) for a ground or ceiling mounted camera. This option is not available for a wall mounted camera.

## Playback Cursor

A graphical tool on the video evidence timeline. You can move this tool back and forth on the timeline to quickly view different points in the video.

## Resources Area

Located on the left of the Command Player interface, under the main menu button, the resources area lists the available evidence for you to view: the video, image, and note files.

### Text Overlay

Text that has been superimposed over an image file or a video file.

### Timeline

A visual representation of the time in a video evidence file. The timeline shows the date and time of a video from the beginning of the recording to the end. It includes a playback cursor, which you can move along the timeline to view different points in the video.

### View

A grid with multiple video files displayed at the same time.

### Virtual PTZ

Virtual Pan, Tilt, Zoom. A PTZ camera is a closed-circuit television camera with remote directional and zoom control. Virtual PTZ is a dewarping feature that emulates a PTZ camera view, and allows you to navigate in the image using the digital zoom controls.

### Zoom

The zoom feature allows you to move to a close-up shot of an object in the video or image file, to move the view of the zoomed area, and to move back out of the close-up.

## Company Overview

March Networks®, an independent subsidiary of Infinova®, is a leading provider of intelligent IP video solutions. For more than a decade, the company has helped some of the world's largest commercial and government organizations transition from traditional CCTV to advanced surveillance technologies used for security, loss prevention, risk mitigation, and operational efficiency. Its highly scalable and easy to use Command™ video management platform enables rapid system deployment and complete system control. It is complemented by the company's portfolio of high-definition IP cameras, encoders, video analytics and hybrid recorders, as well as outstanding professional and managed services. March Networks systems are delivered through an extensive distribution and partner network in more than 50 countries. For more information, please visit [www.marchnetworks.com](http://www.marchnetworks.com).

## Our Commitment to a Green Tomorrow

March Networks takes pride in its commitment to social responsibility and environmental sustainability. Our employees, suppliers and valued partners are passionate about designing environmentally friendly solutions for our customers and minimizing the company's carbon footprint.

We embrace environmental sustainability as part of our overall strategy and business values with multiple initiatives to ensure that we do our part to create a cleaner, healthier environment for future generations. The steps we have taken affect all aspects of our organization and involve our senior management team, employees, suppliers, partners and customers.

Visit the March Networks website for more information about our company and our commitment to social responsibility and environmental sustainability.

## Customer Support and Assistance

### North America

Telephone – 1 613 591 1441  
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### APAC

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Email – [techsupport@marchnetworks.com](mailto:techsupport@marchnetworks.com)