

Quick Reference User Manual

Camera Presets & Video Retrieval on Server

DrillVision™

A Southern Electronics Company

Hardened Video Systems for the Global Drilling Industry
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Server Logon

The Relay Server Software resides on the main system server.

To login from the server, go to the main server terminal and logon to the server.
Server and software access is defaulted to:

User Name: admin

Password: admin

Once logged in, open Internet Explorer and type:

`http://localhost/`

To login from a remote client, close or minimize the Client viewing software and open Internet Explorer and type:

`http://192.168.0.10 (or assigned IP address)`

Log into the server.

Once logged into the server, find and open the file Relay Server using the same logon credentials if needed. Once logged in, you can access the functions below. **CAUTION: *Once logged into the server be careful to only use the functions below.***

Preset Setup

The Relay Server provides the facility to create up to 16 named presets for each PTZ camera. Presets are a valuable tool for clients to move a PTZ camera to a specific position and are useful in creating automated camera tours.

To define preset positions for your PTZ cameras, while in Management mode, select the Cameras tab, click Presets under the Basic menu.

1. Using the drop down menu select the camera.
2. Using the PTZ controls and live video window provided, position the camera at the desired position, zoom, and focus level. If a compatible physical joystick is connected and the enable joystick pushbutton  is depressed, you may also use the physical joystick to position the camera. If GPS control is enabled, you may also click the GPS control to reveal the GPS control dialog and enter coordinates to position the camera.
3. Type in a name for the preset.
4. Click the Save Focus (SF) check box if you desire to save the focus level for this preset.
5. Click the Set button to save this preset. Observe that the X, Y, and Zoom fields are populated for this preset.
6. Test the preset by using the live video or PTZ controls to move the camera, then click this preset's Goto button and observe that the camera moves to the desired position and desired zoom and focus levels.
7. If the preset is not acceptable, click the Clear button and repeat the above steps.

The named presets defined should now appear in client viewing interfaces.

The screenshot displays the 'Preset Setup' interface. On the left, a camera view shows a night scene of a building with a timestamp of 17:14:41 on Nov/26/2012. Below the view is a 'Select tools' dropdown and a control panel with directional arrows, a zoom slider, and focus controls. On the right, a table lists 17 presets, each with a 'Set' and 'Clear' button. Red arrows and numbered circles (1-7) highlight specific UI elements: 1 points to the camera title, 2 to the control panel, 3 to the 'Set' button of Preset1, 4 to the 'Set' button of Preset2, 5 to the 'Clear' button of Preset2, 6 to the 'Goto' button of Preset2, and 7 to the 'Set' button of Preset7.

#	Name	SF	Set	Clear	Goto	X	Y	Zoom
0	Home				Goto	0.00	0.00	1
1	Preset1	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
2	Preset2	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
3	Preset3	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
4	Preset4	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
5	Preset5	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
6	Preset6	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
7	Preset7	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
8	Preset8	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
9	Preset9	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
10	Preset10	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
11	Preset11	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
12	Preset12	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
13	Preset13	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
14	Preset14	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
15	Preset15	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1
16	Preset16	<input type="checkbox"/>	Set	Clear	Goto	0.00	0.00	1

Panorama Setup

A panorama is another PTZ control provided by the Relay Server. For each PTZ camera in your system you can create a static image that can show the full range of view (or a fraction thereof) of your PTZ camera. Once the image is created, the Relay Server then overlays an X and Y coordinate system to provide an absolute positioning tool for the PTZ camera. The Relay Server allows you to create up to 3 named panoramas for each PTZ camera. Therefore, you can create panoramas with different zoom levels for differing navigation requirements or create multiple seasonal panoramas to provide clients accurate PTZ positioning tools regardless of the time of year.

To define panoramas for your PTZ cameras, while in Management mode, select the Cameras tab, click Panoramas under the Basic menu.

1. Define the panorama parameters
2. Create or delete the panorama
3. Updating the panorama

The panorama or panoramas for this camera should now appear on the 1-Live page while in Views mode.

Defining Panorama Parameters

To define the parameters of the panorama that will be created, while in Management mode, select the Cameras tab, click Panoramas under the Basic menu.

Saved Snapshot Retrieval

To view saved snapshots, while in Views mode, select the Snapshot tab. Set the search criteria to select the source of the desired snapshot(s) as described below:

1. Using the Camera drop down menu select the camera whose saved snapshot(s) you wish to view.
2. If you wish to limit your search to today's snapshots, click the Today button. Otherwise, proceed to steps 3 and 4.

The image shows a 'Search Criteria' form with the following fields and callouts:

- Camera:** A dropdown menu showing '3) Roof Camera'. A red circle with the number '1' points to the dropdown arrow.
- Today:** A button located below the Camera dropdown. A red circle with the number '2' points to it.
- Start Date:** A date picker showing 'Apr 19 2011'. A red circle with the number '3' points to the month dropdown.
- Start Time:** A time picker showing '12 : 00 AM'. A red circle with the number '4' points to the hour dropdown.
- End Date:** A date picker showing 'Apr 19 2011'. A red circle with the number '5' points to the month dropdown.
- End Time:** A time picker showing '11 : 59 PM'. A red circle with the number '6' points to the hour dropdown.
- Search:** A button at the bottom of the form. A red circle with the number '7' points to it.

3. Specify a date and time to start the search.
4. Specify a date and time to end the search.

5. Once the search criteria is correct, click the Search button.

If there are saved snapshots within the search criteria, they will be listed as follows:

The screenshot displays a video management interface. At the top, there are tabs for '4-live', '5-live', 'Snapshot', and 'Stored Video'. The 'Snapshot' tab is active. On the left, a video player shows a street scene with a timestamp '10:09:23 Apr/12/2011'. Above the video are navigation links: '< Prev', 'Next >', and 'Open'. Red circles with arrows point to the 'Prev' and 'Next' links (labeled 8) and the 'Open' link (labeled 9). On the right, the 'Search Criteria' section includes a dropdown for 'Camera' (set to '3) Roof Camera'), a 'Today' button, and date/time pickers for 'Start Date' (Apr 11, 2011), 'Start Time' (12:00 AM), 'End Date' (Apr 26, 2011), and 'End Time' (11:59 PM). A 'Search' button is at the bottom of this section. Below the search criteria, a table lists search results:

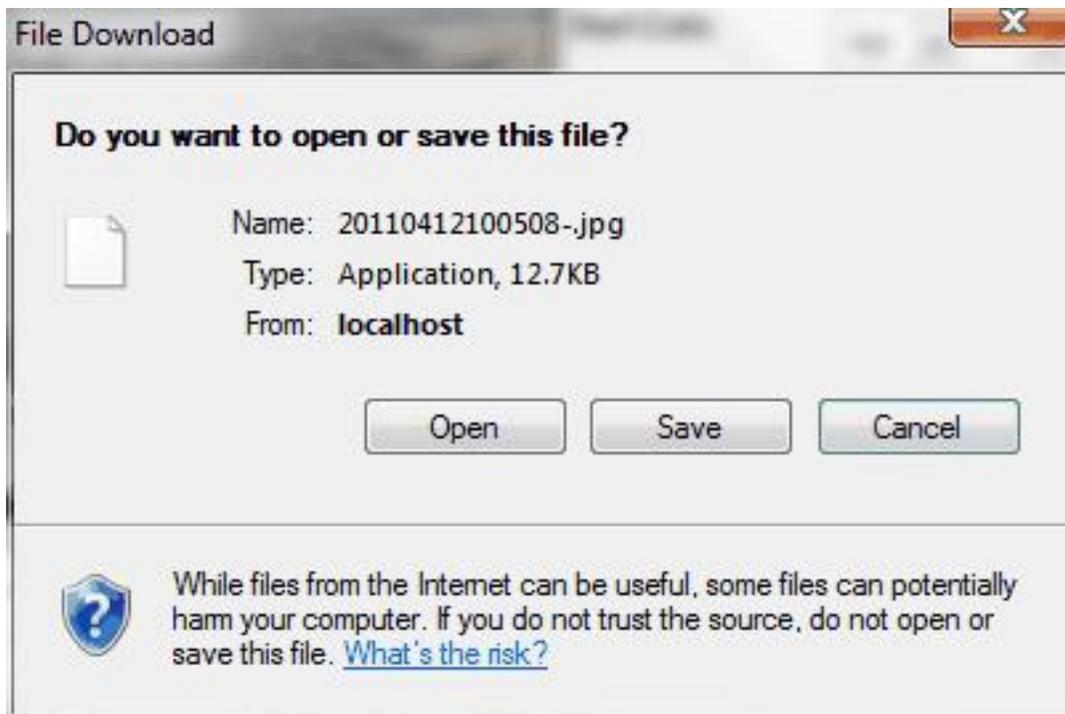
Time Saved	View	Download
04/12/2011, 10:05:08	20110412100508-.jpg	Download
04/19/2011, 17:08:55	20110419170855-.jpg	Download
04/19/2011, 17:09:02	20110419170902-.jpg	Download
04/19/2011, 17:09:10	20110419170910-.jpg	Download

Red circles with arrows point to the 'View' link for the second row (labeled 6) and the 'Download' link for the same row (labeled 7). The table header indicates '4 item(s) Time: 4/11/2011 12:00:0 AM - 4/26/2011 11:59:0 PM Camera: Roof Camera'.

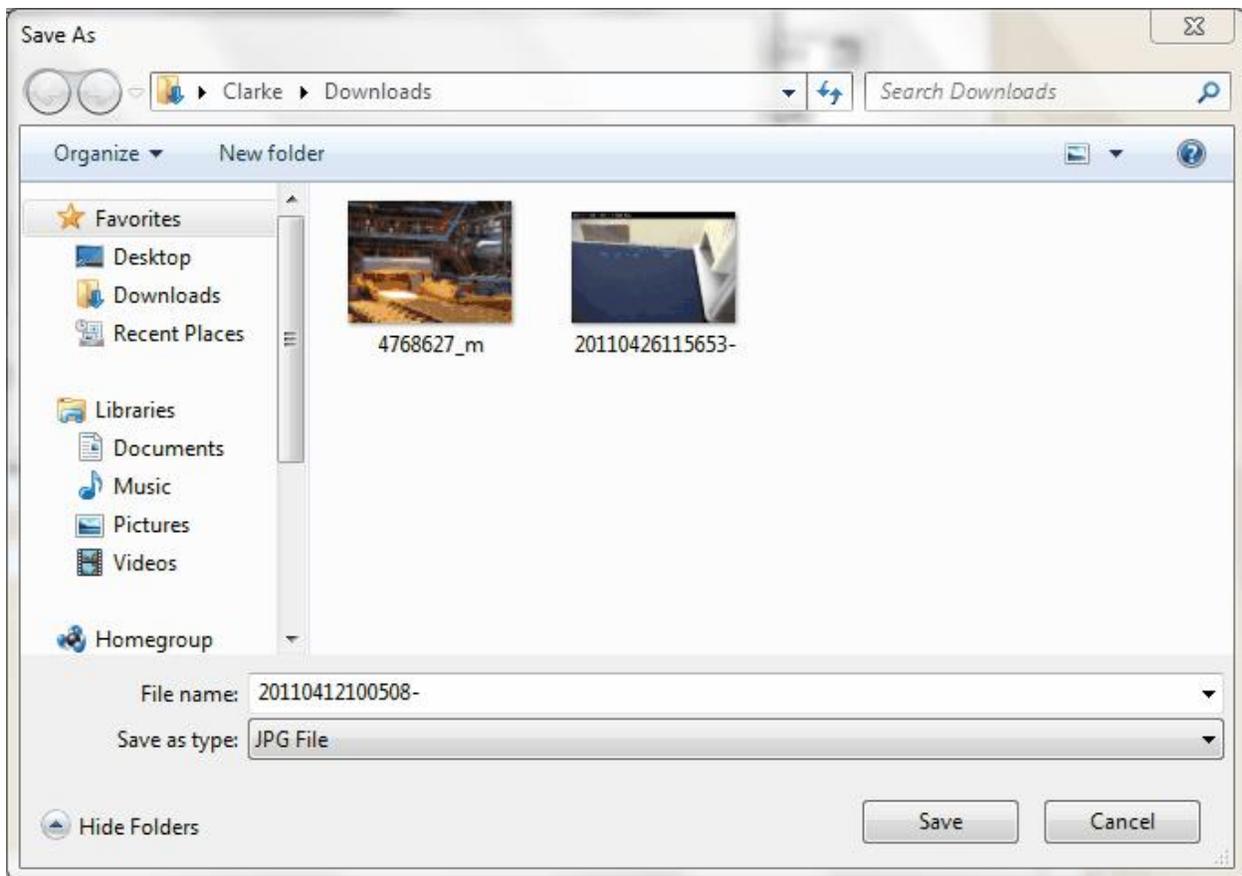
6. To view a snapshot, click on the link in the View column.

7. To save the snapshot to another folder or open it with another program, click on the corresponding Download link. You will be presented with the following dialog:

a. Click on the Open button to open the JPEG file with the default program specified for this file type.



b. Click on the Save button to save the JPEG to another folder. You will be presented with the following dialog to specify a destination for this JPEG file.



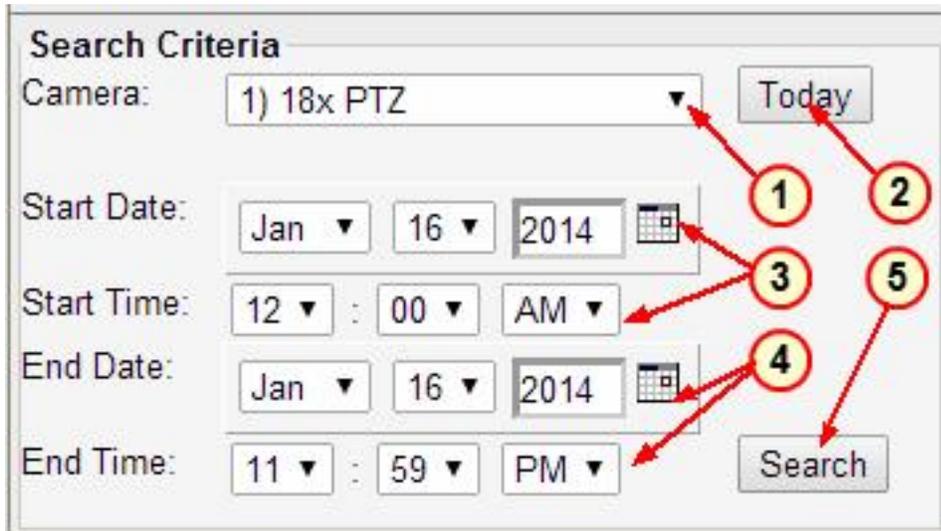
Change the filename if necessary, browse your network, and specify a drive and folder destination. Then click the Save button to save the file.

8. Use the Next or Prev links to view adjacent snapshots in the list.

9. Click the Open link to view the snapshot in a separate window.

Saved Video Retrieval

To view saved video, while in Views mode, select the Stored Video tab. Set the search criteria to select the source of the desired snapshot(s) as described below:



The image shows a 'Search Criteria' dialog box with the following fields and buttons:

- Camera: 1) 18x PTZ (dropdown menu)
- Today (button)
- Start Date: Jan (dropdown), 16 (dropdown), 2014 (text input), calendar icon
- Start Time: 12 (dropdown), : 00 (dropdown), AM (dropdown)
- End Date: Jan (dropdown), 16 (dropdown), 2014 (text input), calendar icon
- End Time: 11 (dropdown), : 59 (dropdown), PM (dropdown)
- Search (button)

Numbered callouts (1-5) with red arrows point to the following elements:

- 1: Camera dropdown menu
- 2: Today button
- 3: Start Date dropdowns
- 4: End Date dropdowns
- 5: Search button

1. Using the Camera drop down menu select the camera whose saved video(s) you wish to view.
2. If you wish to limit your search to today's video clips, click the Today button. Otherwise, proceed to steps 3 and 4.
3. Specify a date and time to start the search.
4. Specify a date and time to end the search.
5. Once the search criteria is correct, click the Search button.

If there are saved video clips within the search criteria, they will be listed as follows:

The screenshot shows a video management interface. At the top, there are navigation links: < Prev. | Next >. The main area displays a list of 184 items. The list has columns for Time Saved, Size, View, Download, and checkboxes for AVI and MP4. A search criteria panel is located at the bottom left, with fields for Camera (11) Demo HD 18x PTZ, Start Date (Jan 6, 2016), Start Time (12:00 AM), End Date (Jan 6, 2016), and End Time (11:59 PM). A Search button is also present. Red circles with numbers 6 through 12 are overlaid on the interface, pointing to specific elements: 6 points to the View column, 7 to the View AVI link, 8 to the navigation links, 9 to the AVI checkbox, 10 to the AVI checkbox of a specific row, 11 to the MP4 checkbox, and 12 to the MP4 checkbox of a specific row.

Time Saved	Size	View	Download		AVI	MP4
01/06/2016, 10:20:35	2,097 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:22:17	2,457 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:24:01	2,331 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:25:45	2,137 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:27:29	2,153 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:29:09	2,153 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:30:38	321 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:30:53	2,130 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:32:37	2,150 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:34:17	2,180 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:35:57	2,404 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:37:41	2,509 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:39:21	2,762 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:41:05	2,194 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:42:45	2,347 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:44:29	2,062 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:46:09	2,563 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:47:53	2,563 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:49:33	2,276 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:51:17	2,111 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
01/06/2016, 10:53:01	2,504 KB	View AVI	Download	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. To view a video, click on the view link in the View column. Use the playback controls to review the video clip:



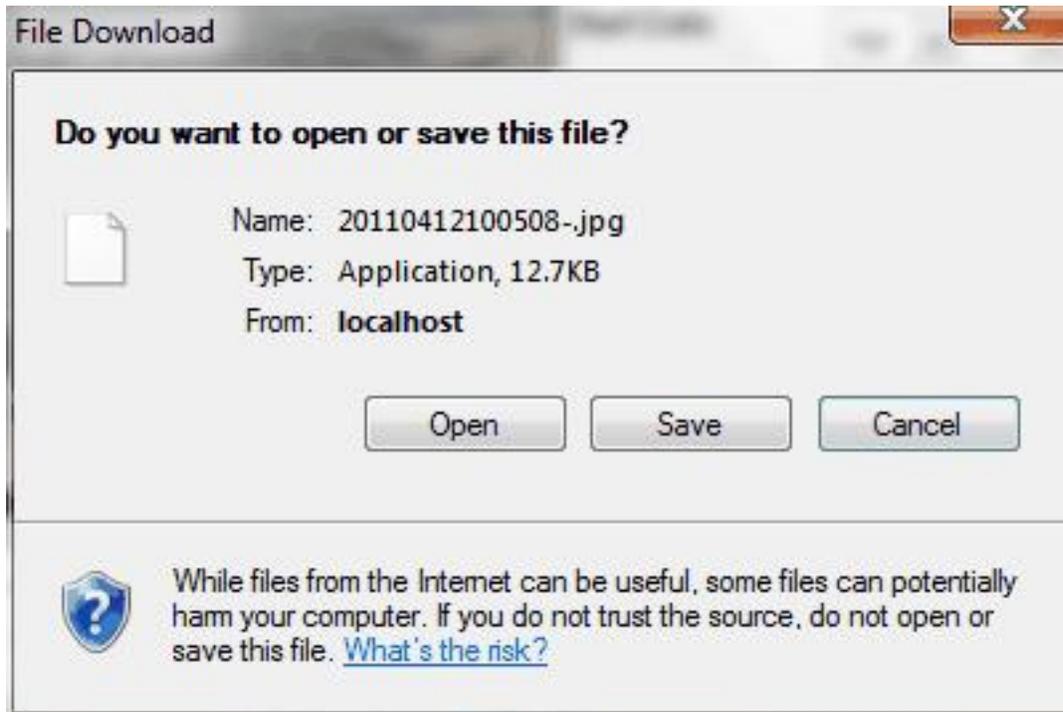
Reverse video 1 frame

Reverse video at high speed Reverse video at normal speed Reverse video at slow speed Pause playback

Forward video at slow speed Forward video at normal speed Forward video at high speed Forward video 1 frame



7. To save the video clip to another folder or open it with another program, click on the corresponding Download link. You will be presented with the following dialog:



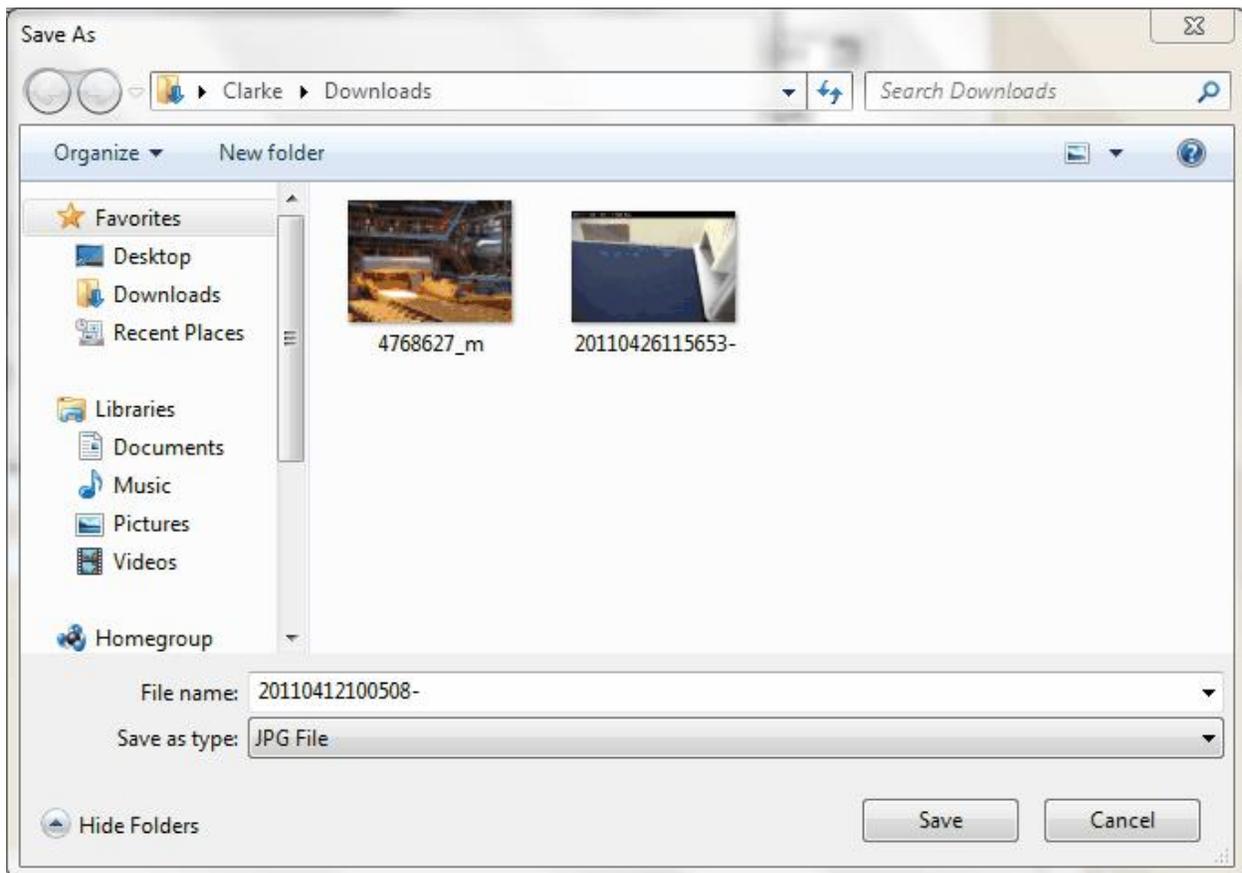
- Click on the Open button to open the JPV file with the default program specified for this file type. NOTE: If you see a Find button instead of an Open button, this means you have not associated the JPV file you are trying to open to the appropriate program. the only external program you can associate to JPV files is the IVC utility JPVerify. Once that association is made, you will prompted to open the file.
- Click on the Save button to save the video clip to another folder. You will be presented with the following dialog to specify a destination for this video file.

Change the filename, if desired, browse your network, and specify a drive and folder destination. Then click the Save button to save the file.

8. Use the Next or Prev links to view adjacent video clips in the list.

9. Click this check box to select all JPV files listed.

10. To convert JPV file to AVI, click the corresponding checkbox, or select all checkbox, and then click the AVI button. The Relay Server will convert the file and then display it in the file list. 11. Click this checkbox to select all AVI files listed.



12. To convert the AVI file to MP4, click the corresponding checkbox, or the select all checkbox, and then click the MP4 button. The Relay Server will convert the file and then display it in the file list.