

# Visions™ Digital Video System

## 1.0 Welcome to *Visions* Digital Video System

Keri's *Visions*™ Digital Video System combines *Doors* access control with digital video technology to provide stand-alone and integrated access plus CCTV solutions. The *Visions* product is comprised of a Digital Video Recorder (DVR) and *Visions* software, together known as the *Visions* Server. *Visions* Servers are available to work with 4, 8, 16, or 32 cameras, and can process up to 240 frames per second. Keri's *Visions* Digital Video System comes in either the one box solution (with the *Visions* Server and *Doors* software operating on a single PC), or a two box solution (with the *Visions* Server on one PC and the *Visions* Client software along with *Doors* software on a second PC).

Once cameras have been configured to coincide with doors, gates, or other input points on the *Doors* access control system, subsequent *Doors*' Quick Search reports will access the *Visions* Server application to find and list any access system events with associated video clips. Video clips are then available for playback on demand in a separate window.

The following documents need to be read and followed for proper operation of the *Visions* Digital Video System. All of these documents are available online at [www.kerisys.com](http://www.kerisys.com) and on the Keri CD. The *Visions Digital Video System Quick Start Guide* (this document) has been included with your shipment.

- *Visions Server Setup and Users Guide* (P/N 01975-001)
- *Visions Client Setup and Users Guide* (P/N 01977-001)
- *Doors Users Guide* (P/N 01914-100)
- *Visions Digital Video System Quick Start Guide* (P/N 01974-001)

## 1.1 IMPORTANT NOTICES

The following important items need to be kept in mind while setting up and using the *Visions* Digital Video System.



***Doors* and the *Visions* Client cannot both be logged into the *Visions* Server at the same time.**



**Whenever the *Visions* Server setup menu is opened, all video cameras STOP recording. Once the setup menu is closed, all cameras begin recording automatically.**



**After using the *Visions* Client to modify the *Visions* Server setup, the *Visions* Server application automatically re-starts.**

## 2.0 Minimum System Requirements

### 2.1 *Visions* Server PC Specifications

CPU	Intel 2.8 Mhz Pentium4
Memory	256 MB DDR 32 x 8 (4, 8, 16 camera system) 512 MB DDR 32 x 8 (32 camera system)
Hard Drive	160 GB
CDRW	Required for archiving and backup
Operating System	Windows XP Pro with Service Pack 1 or Service Pack 2

### 2.2 *Visions* Client PC Specifications

Refer to the *Visions Client Setup and Users Guide* (P/N 01977-001) for PC specifications and compatibility.



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## 3.0 Setup *Visions* Server and Client

PCs ordered directly from Keri Systems come with all necessary software installed. Refer to the appropriate documentation for complete setup instructions.

For user-installed systems, refer to the following installation directions. Select whether a one PC system or two PC system will be used and follow the appropriate instructions:

*NOTE: Only one Visions Server may be used per Doors application.*

### 3.1 One PC System

A one PC system has the *Visions* Server and *Doors* software operating on a single PC.

1. Install the *Visions* Server software from the Keri CD-ROM.
2. Refer to the *Visions Server Setup and Users Guide* (P/N 01975-001) to configure the *Visions* Server.
3. Install the *Visions* SDK software from the Keri CD-ROM.
4. Install the *Doors* software from the Keri CD-ROM.
5. Refer to the *Doors Users Guide* (P/N 01914-100) for *Doors* configuration.
6. Refer to the following sections on how to configure *Doors* to work with *Visions*.

### 3.2 Two PC System

A two PC system has the *Visions* Server on one PC and the *Visions* Client software on a second PC. In a two PC system, the *Doors* software may be on the same PC as either the *Visions* Server or the *Visions* Client. However, *Doors* should not be installed on both the server and the client.

#### 3.2.1 *Visions* Server Setup (First PC)

1. Install *Visions* Server software from the Keri CD-ROM.
2. Refer to the *Visions Server Setup and Users Guide* (P/N 01975-001) to configure the *Visions* Server.
3. If *Doors* is to be on the Server PC, install *Doors* software from the Keri CD-ROM.
4. Refer to the *Doors Users Guide* (P/N 01914-100) for *Doors* configuration.
5. Refer to the following sections on how to configure *Doors* to work with *Visions*.

#### 3.2.2 *Visions* Client Setup (Second PC)



1. Install *Visions* Client software from the Keri CD-ROM.
2. Refer to the *Visions Client Setup and Users Guide* (P/N 01977-001) to configure the *Visions* Client.
3. Install the *Visions* SDK software from the Keri CD-ROM.
4. If *Doors* is to be on the Client PC, install *Doors* software from the Keri CD-ROM.
5. Refer to the *Doors Users Guide* (P/N 01914-100) for *Doors* configuration.
6. Refer to the following sections on how to configure *Doors* to work with *Visions*.

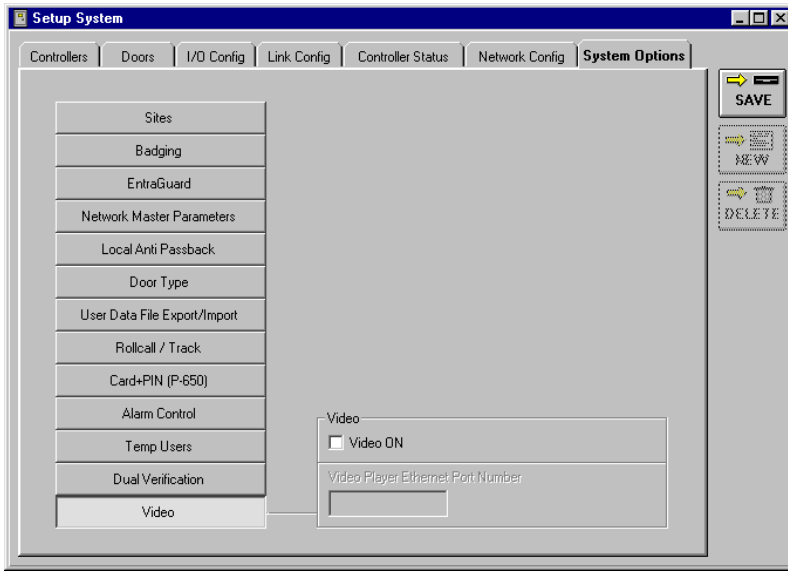


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## 4.0 Enable Video in *Doors*

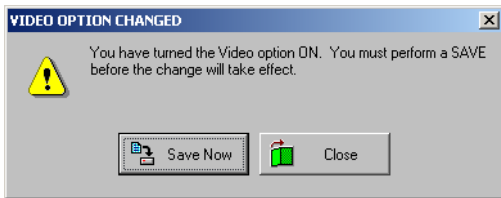
The *Doors* Video feature allows for the integration of the *Visions* Digital Video System and *Doors*. Perform the following steps to enable the feature:

1. Click on the Setup ⇒ System pull-down menu or click on the  button on the tool bar, then click on the **System Options** tab. The System Options window appears. Click on the  button to reveal the Video field (see Figure 1).

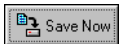


**Figure 1: System Options Tab - Video Disabled**

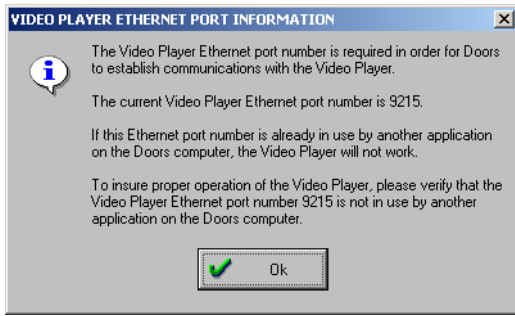
2. To enable the Video feature, click on the **Video ON** check box. A check mark appears in the box. Because the changes required to implement the Video feature make major changes to the *Doors* program and its supporting databases, a confirmation window appears (see Figure 2).



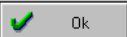
**Figure 2: Video Option Changed - ON**

3. Click on the  button and the Video feature is enabled and a Video Player Ethernet Port Information window appears (see Figure 3 on page 4).

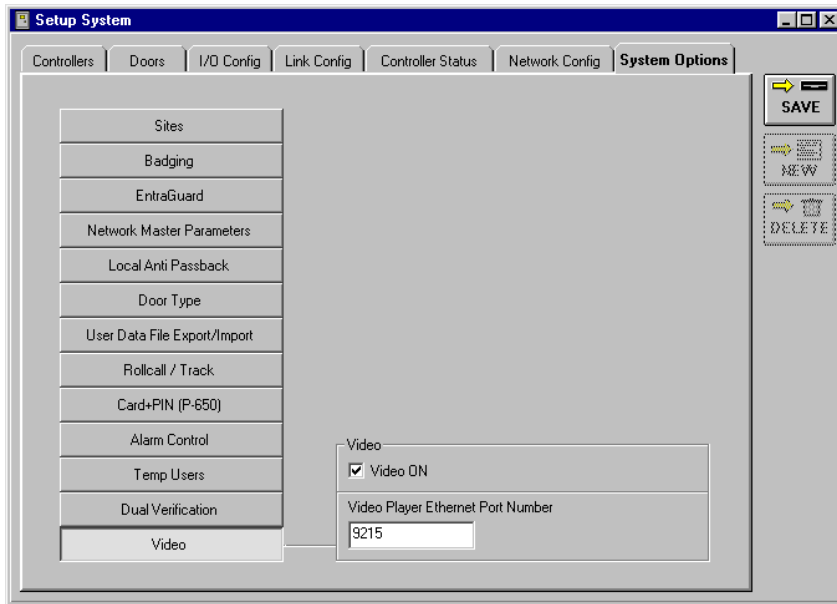
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**Figure 3: Video Player Ethernet Port Information**

4. Click on the  button.
5. The port number 9215 should now be visible inside the Video Player Ethernet Port Number box (see Figure 4).

*NOTE: It is highly unlikely that this port number is in use by another application. However, if Doors is unable to connect with the video server have the systems administrator check whether any application is using TCP port number 9215. Another port number may be assigned. Call Keri Technical Support for further details.*



**Figure 4: System Options Tab - Video Enabled with Assigned Port Number**

6. Click on the  button.
7. A number of database changes are now made within the *Doors* program to support the Video feature. When these changes are complete, the *Doors* program starts the *Visions* player.

*NOTE: A  button is added to the Windows Task Bar and the Visions CServer icon  is added to the Quick Launch area of the Task Bar.*

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## 5.0 Configure Video Server Communications



**NOTE:** During the configuration process the video server should be running. However, if Doors and the Video Server are on a single PC, **DO NOT** log into the video server while configuring Doors.

Once the Video feature has been enabled and the access control network has been updated, Doors must be configured to communicate with the video server.

1. Click on the Setup ⇒ Video pull-down menu. The Setup Video window appears (see Figure 5).

*NOTE: If Video does not show up as an option in the Setup pull-down menu, then the Video feature has not been enabled in Doors. For instructions on how to enable the Video feature, see the “Enable Video in Doors” on page 3. If Video does show up as an option in the Setup pull-down menu, but is greyed out, check operator rights. For instructions on how to grant operator rights, see the “Operator Rights” section in the Doors Users Guide (P/N 01914-100).*

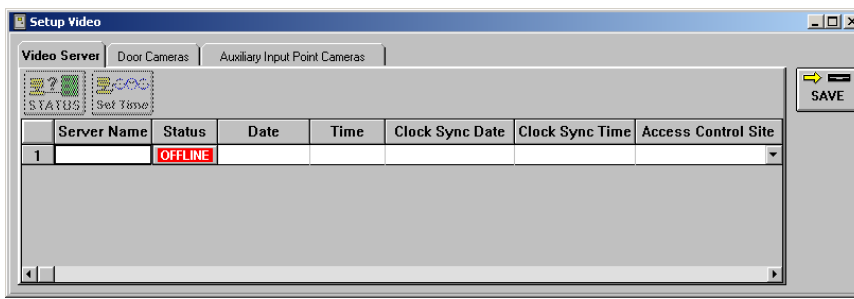


Figure 5: Video Server Tab

### 5.1 Video Server Tab

*NOTE: Some of the following fields are status only (marked by an \*) and do not need any input from the operator. Those*

*fields will remain blank until either the  or  buttons are clicked.*

#### Server Name

A descriptive text name for the video server. To assign a name to the video server, click on the “Server Name” cell and type a descriptive name for that server. The default for this field is blank.

#### Status\*

Displays the status of the Doors connection to the video server.

#### Date\*

Displays the date set on the video server PC.

#### Time\*

Displays the time set on the video server PC clock.

#### Clock Sync Date\*

Displays the date of the last sync of the access control network and the video server PC.



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**Clock Sync Time\***

Displays the time of the last sync of the access control network clock and the video server PC clock.

**Access Control Site**

Lists all access control sites available for use with the video feature. Use the pull-down menu to select the access control site to be associated with the video server.

**Server TCP/IP Address**

Enter the TCP/IP address of the video server.

**Server Ethernet Port**

Displays TCP port on which the video server listens for *Doors* connection requests. The default is set for 7128 and should not be edited.

**Server User ID**

Enter a User ID that has been set up on the video server. For details on how to set up User IDs on the video server, refer to the *Visions Server Setup and Users Guide* (P/N 01975-001). The User ID is case sensitive and may be used by one program/operator at a time. It is recommended that a *Doors*-only User ID is set up.


**Server Password**

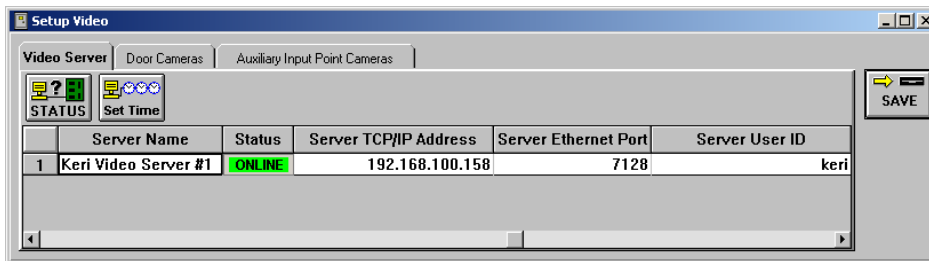
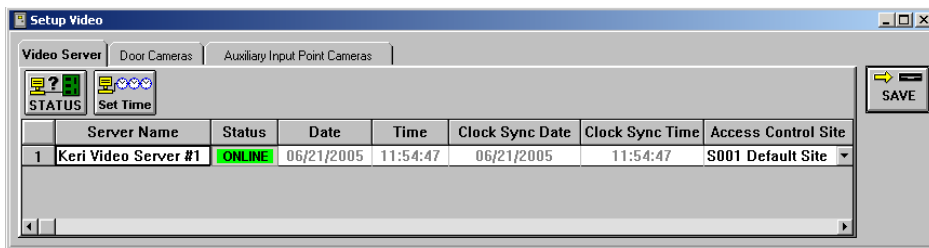
Enter the password that has been associated with the User ID entered. It must be the same as it was set up on the Video Server and is case sensitive.

**Confirm Password**

Enter the same password as in the previous field.



1. Click on the  button to save these changes. If the Video Server information is not saved before clicking any other button or exiting the Setup Video window, the data entered is lost and must be re-entered. The clock synchronization automatically starts. Follow the steps beginning in “Synchronize Clocks” on page 7.
2. Once the clocks have been synchronized, the Video Server tab should then appear similar to Figure 6.

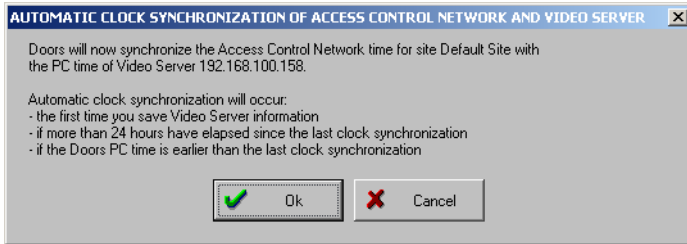


**Figure 6: Video Server Tab**

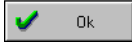
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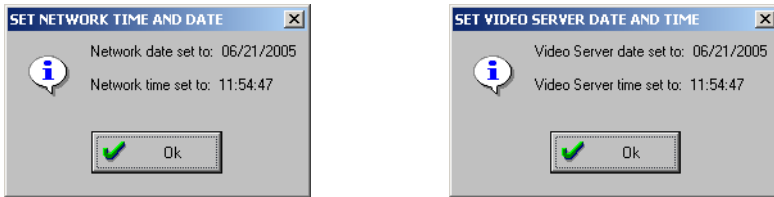
## 5.1.1 Synchronize Clocks

In order for the video clips to match up with *Doors* events, the clocks on the access control network and the video server must be synchronized. Once the Video Server information has been saved, a Clock Synchronization window will appear (see Figure 7).

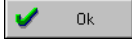


**Figure 7: Automatic Clock Synchronization**

1. Click on the  button to sync the clocks. Two confirmation windows will appear (see Figure 8).



**Figure 8: Network and Video Server Date and Time Synchronization Confirmation Windows**

2. Click on the  button for each window to synchronize the clocks.




*NOTE: The time sync will be based on the Doors PC clock and will not take into account different time zones.*



*NOTE: A synchronization reminder will appear every 24 hours, unless one of the following instances occur:*

- *If the Doors PC clock gets set to a date and time prior to the saved clock sync date and time, a reminder to sync the clocks of the access control network and the video server will appear within 60 seconds.*
- *If the Doors PC clock is set to a date and time that is 24 hours or more after the saved clock sync date and time, a reminder to sync the clocks of the access control network and the video server will appear within 60 seconds.*
- *If Doors is in Monitor mode when a clock sync needs to take place, the clock sync will occur automatically without any input from the operator. If Doors has more than one site and a site other than the one associated with the video server is being monitored (Site #2), when the sync time arrives monitor mode will be suspended. Doors will temporarily disconnect from Site #2, connect to Site #1 (the one associated with the video server) and sync the clocks. Once that has completed, Doors will disconnect from Site #1, re-connect with Site #2 and resume monitoring. All this is done without any input from the operator, however messages will appear explaining what is taking place.*



3. To synchronize the clocks on demand, click on the  button and repeat steps 1 and 2.

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## 5.2 Door Cameras Tab

Once the Video Server is set up, Cameras need to be assigned to specific physical doors. To assign door cameras, from the Setup ⇒ Video window, click on the Door Cameras Tab. The Door Cameras window appears (see Figure 9).

*NOTE: Before beginning this section, assign camera names on the video server first. Once a camera has been assigned a name and assigned to specific doors, changing the camera name will require a new camera/door mapping.*

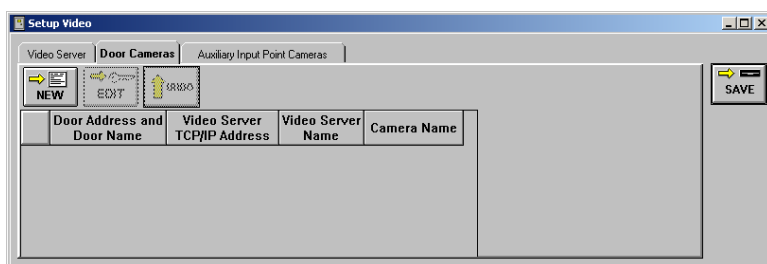


Figure 9: Door Cameras Tab

1. Click on the  button. A new blank row appears.

### Door Address and Door Name

From the pull-down list, select the physical door to be assigned a camera.

### Video Server TCP/IP Address

The TCP/IP address of the video server is automatically entered.






### Video Server Name

The Video Server Name that was entered during the Setup Video Server process appears here.

### Camera Name

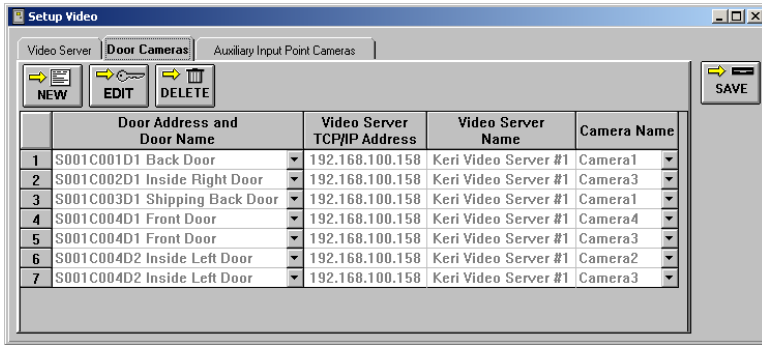
From the pull-down list, select the camera to be assigned to the door in the first column.

*NOTE: More than one camera may be assigned to each door and more than one door may be assigned to each camera. It is all dependent on where the cameras are pointed.*

2. Click on the  button to save each row. Repeat the process for as many cameras/door combinations there are. If the information is not saved before clicking any other button or exiting the Setup Video window, the data entered is lost and must be re-entered.
  - To make changes to a row that has already been saved, click on the row that needs changed and then click on the  button. Make the necessary changes and click on the  button.
  - To remove a row before it has been saved, click on the row to be removed and then click on the  button.
  - To remove a row after it has been saved, click on the row to be removed and then click on the  button.

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3. The finished window may appear similar to Figure 10.



**Figure 10: Door Cameras Tab with Doors and Cameras Assigned**

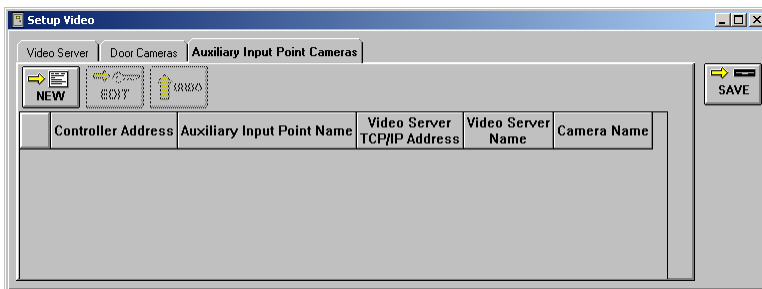


**NOTE:** If a camera name has been changed, **DO NOT** delete the Door Camera Tab setup. Add a new row for the new camera name. If the old camera setup is deleted, Doors will not be able to find any video-related events that took place prior to the camera name change.

## 5.3 Auxiliary Input Point Cameras

For those using auxiliary inputs in *Doors*, cameras may be assigned to begin filming when specific inputs occur. To assign cameras to specific auxiliary inputs start from the Setup ⇒ Video window. Click on the Auxiliary Input Point Cameras Tab and the window appears (see Figure 11).

**NOTE:** Before beginning this section, assign camera names on the video server first. Once a camera has been assigned a name and assigned to specific inputs, changing the camera name will require a new camera/input mapping.



**Figure 11: Auxiliary Input Point Cameras Window**

1. Click on the  button. A new blank row appears.

### Controller Address

From the pull-down list, select the controller to be assigned a camera. Only controllers with a satellite board (SB-293 or SB-593) will be available for use.



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## Auxiliary Input Point Name

From the pull-down list, select the input point to be assigned a camera.

## Video Server TCP/IP Address

The TCP/IP address of the video server is automatically entered.






## Video Server Name

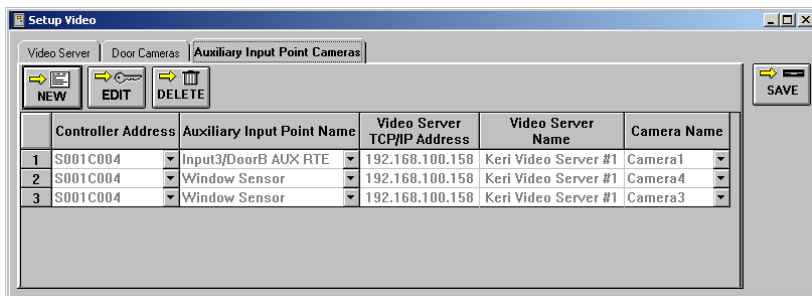
The Video Server Name that was entered during the Setup Video Server process appears here.

## Camera Name

From the pull-down list, select the camera to be assigned to the input point in the second column.

*NOTE: More than one camera may be assigned to each input point and more than one input point may be assigned to each camera. It is all dependent on where the cameras are pointed.*

2. Click on the  button to save each row. Repeat the process for as many cameras/input point combinations there are. If the information is not saved before clicking any other button or exiting the Setup Video window, the data entered is lost and must be re-entered.
  - To make changes to a row that has already been saved, click on the row that needs changed and then click on the  button. Make the necessary changes and click on the  button.
  - To remove a row before it has been saved, click on the row to be removed and then click on the  button.
  - To remove a row after it has been saved, click on the row to be removed and then click on the  button.
3. The finished window may appear similar to Figure 12.



**Figure 12: Auxiliary Input Point and Cameras Assigned**



*NOTE: If a camera name has been changed, DO NOT delete the Auxiliary Input Point Camera Tab setup. Add a new row for the new camera name. If the old camera setup is deleted, Doors will not be able to find any video-related events that took place prior to the camera name change.*

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## 6.0 Search and Playback of Video Related Events

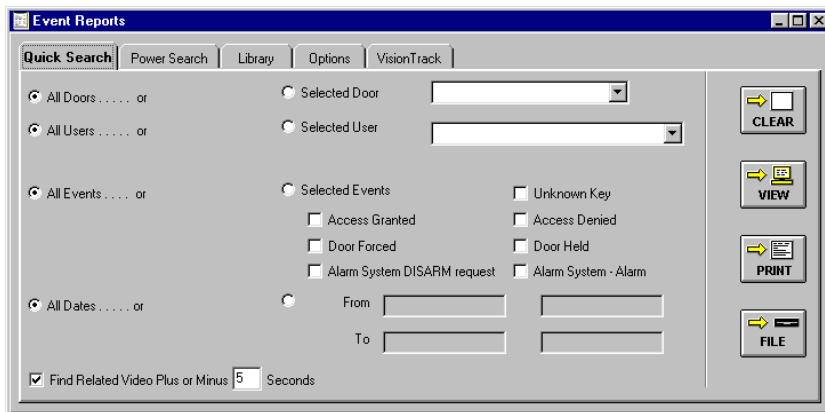


*NOTE: For best performance during the search and playback related events, DO NOT log into the Video Server.*

### 6.1 Search For Video-Related Events Using Quick Search

*NOTE: Before searching for video-related events, make sure all events have been collected from the controllers.*

1. To locate an event with any associated video clips, click on the Reports ⇒ Searchable Events pull-down menu option. The Event Reports window appears (see Figure 13).




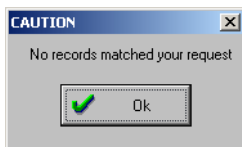
**Figure 13: Quick Search Event Reports Window**

2. Choose the events to be located. For more information on using the Quick Search Reports window, see the [Doors Users Guide](#) (P/N 01914-100).
3. Verify there is a check mark in the “Find Related Video Plus or Minus 5 Seconds” check box. The default is set for 5 seconds before and after an event takes place, however this may be changed for up to 999 seconds before and after an event.


*NOTE: If the check box is greyed out then the video feature has not been enabled (see “Enable Video in Doors” on page 3).*



4. Once all search criteria has been selected, click on the  button.
5. *Doors* will connect to the video server and search for events that match the search criteria.
6. If there was no data that meets the search criteria, an empty report warning window appears (see Figure 14).



**Figure 14: No Records Matched the Request Window**

7. Click on the  button and modify the search criteria in the Quick Search window.



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8. If the search was successful, a spreadsheet window appears (see Figure 15).

	Date	Time	Video Found	Door Name	User / Card	Aux Input / Link	Message	Timezone	Operator
1	06/17/2005	11:01:12					Host comm failed		
2	06/17/2005	11:02:57					Operator logged on		Keri
3	06/17/2005	11:03:30					Net connect made		Keri
4	06/17/2005	11:03:30					Operator requested collect		Keri
5	06/17/2005	11:03:32					Monitor started		Keri
6	06/17/2005	11:05:38	2 ITEMS	Front Door	Adams J.		Access Granted		
7	06/17/2005	11:05:40	2 ITEMS	Front Door			Door opened		
8	06/17/2005	11:05:43	2 ITEMS	Front Door			Door closed		
9	06/17/2005	11:05:49	2 ITEMS	Inside Left Door	Adams J.		Access Granted		
10	06/17/2005	11:05:51	2 ITEMS	Inside Left Door			Door opened		
11	06/17/2005	11:05:53	1 ITEM	Inside Left Door			Door closed		
12	06/17/2005	11:26:38	1 ITEM	Back Door	Lincoln A.		Access Granted		

Figure 15: Event Report Print to Screen with Video Events Window

## 6.2 Search For Video-Related Events Using VisionTrack

*NOTE: Before searching for video-related events, make sure all events have been collected from the controllers.*

- To locate an event with any associated video clips using VisionTrack, click on the  button, or the Reports => Searchable Events pull-down menu option. The Event Reports window appears (see Figure 13).

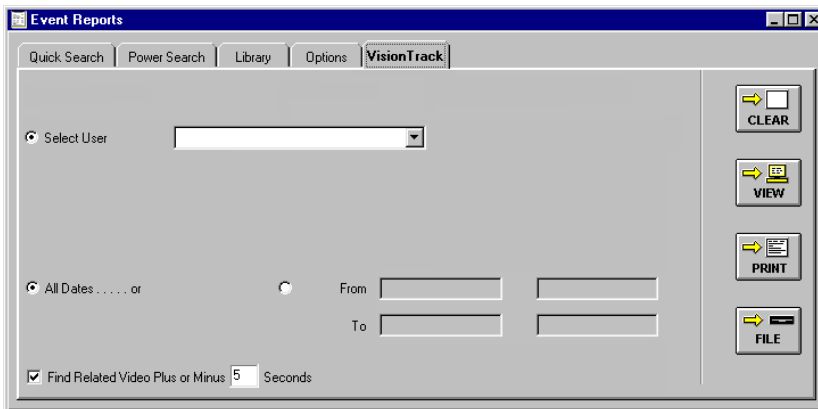



Figure 16: Quick Search Event Reports Window

- Verify there is a check mark in the “Find Related Video Plus or Minus 5 Seconds” check box. The default is set for 5 seconds before and after an event takes place, however this may be changed for up to 999 seconds before and after an event.


*NOTE: If the check box is greyed out then the video feature has not been enabled (see “Enable Video in Doors” on page 3).*

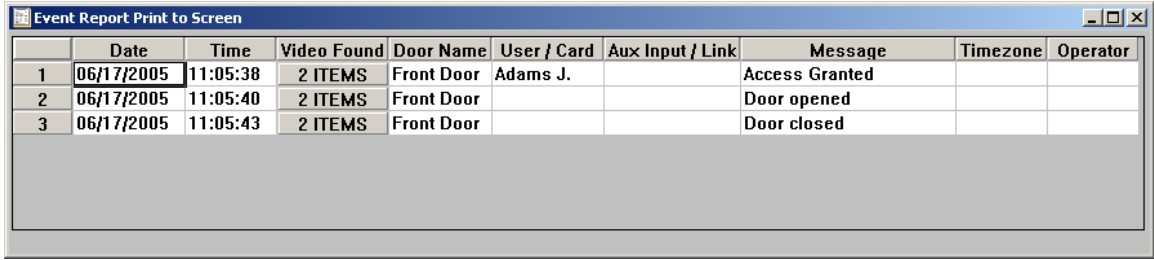
- Select the User and Dates to be searched, then click on the  button.
- Doors will connect to the video server and search for events that match the search criteria.
- If there was no data that meets the search criteria, an empty report warning window appears (see Figure 17).

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Figure 17: No Records Matched the Request Window

- 6. Click on the  button and modify the search criteria in the Quick Search window.
- 7. If the search was successful, a spreadsheet window appears (see Figure 18).



	Date	Time	Video Found	Door Name	User / Card	Aux Input / Link	Message	Timezone	Operator
1	06/17/2005	11:05:38	2 ITEMS	Front Door	Adams J.		Access Granted		
2	06/17/2005	11:05:40	2 ITEMS	Front Door			Door opened		
3	06/17/2005	11:05:43	2 ITEMS	Front Door			Door closed		

Figure 18: Event Report Print to Screen with Video Events Window



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## 6.3 Playback of Video Related Events

1. Continuing on from Figure 15, locate the event for which video events need to be viewed. The Video Found column will show how many video clips match the request. If the field is blank, then there were no video clips that matched the search.
2. Click on the **2 ITEMS** button. The Playback window appears with all related camera events available (see Figure 19).

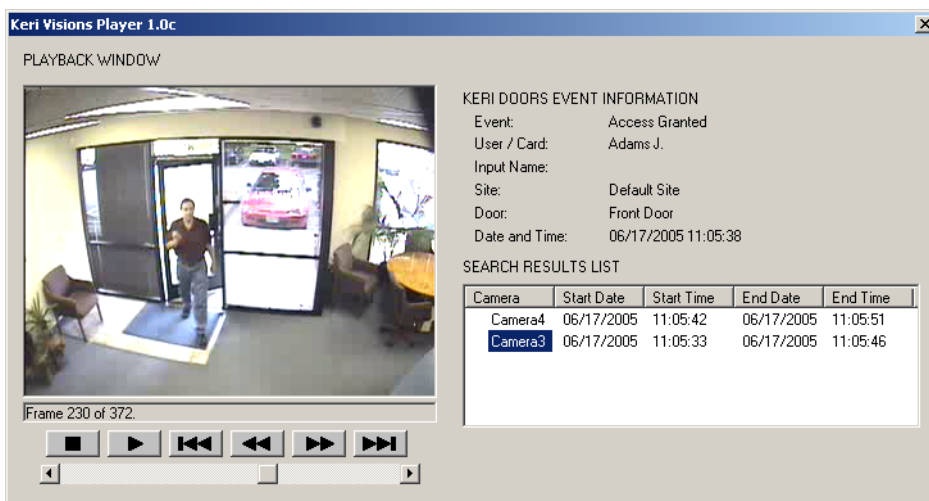









Figure 19: Playback Video Window

3. Select from the available related video cameras the one to be viewed and click on the  button.



 Stop Video	 Play Video
 Rewind Video to Beginning	 Rewind Video (1 frame at a time)
 Forward Video (1 frame at a time)	 Forward Video to End

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## 7.0 Archiving Video Clips

Archiving of video clips must be performed separately from archiving Doors events. For more information on how to archive video clips refer to the *Visions Server Setup and Users Guide* (P/N 01975-001).

## 8.0 Disable Video

- To disable Video, click on the Setup ⇒ System pull-down menu or click on the  button on the tool bar, then click on the **System Options** tab. The System Options window appears. Click on the  button to reveal the Video field (see Figure 4 on page 4).
- Click in the **Video ON** check box. The check mark that was there disappears and the following window appears (see Figure 20).

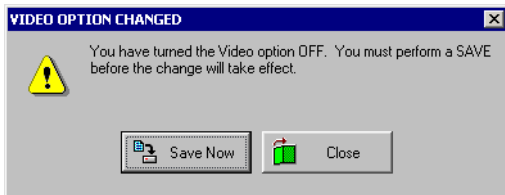
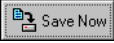



Figure 20: Video Option Changed - OFF

- Click the  button. A “Saved Configuration” window flashes on the screen.
- Click on the  button to save these changes. If the Video changes are not saved before clicking any other button or exiting the System Options window, the data entered is lost and must be re-entered.

End of document.