Operation Instruction

DIGITAL VIDEO RECORDER

CS4 (4-Channel) CS8 (8-Channel)





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Copy Button

Pressing the COPY button allows you to copy video clips.

Esc Button

During menu setup, pressing the ESC button closes the current menu or setup dialog box.

Play/Stop Button

Pressing the PLAY/STOP button enters the playback mode, and pressing the button again exits the playback mode. When entering the playback mode, video is paused. Pressing th⊛ (Play/Pause) button plays back video at regular speed. The screen displays **II** when the DVR is in the Pause mode and the screen displays **▶** when the DVR is playing back video.

Camera Buttons

Pressing the individual camera buttons will cause the selected camera to display full screen. Buttons 1 to-9 are also used to enter passwords.

Arrow Buttons

These buttons are used to navigate through menus and GUI. You can also use them to change numbers by highlighting a number in the menu and using **Up** and Down arrow buttons to increase or decrease the number's value.

When in the PIP display format, pressing theUp and Down arrow buttons moves the position of the small screen counter-clockwise and clockwise, and pressing theft and Right buttons changes the PIP screen size.

In the playback mode, pressing the d button plays video backward at high speed. Pressing the button again toggles the playback speed from d, ddd and dddd, and the screen displays d, ddd at high speed. Pressing the button again toggles the playback speed from, but and button again toggles the playback speed from, but and button, and the screen display, but and button again toggles the playback speed from, but and button, and the screen display, but and button moves to the next image and pressing the d button moves to the previous image.

Play/Pause Button

In the live monitoring mode, pressing the button freezes the current screen and the screen displays \mathfrak{s} icon. When in the playback mode, pressing the \mathfrak{S} button pauses playing video.

Pressing the O button selects a highlighted item or completes an entry that you have made during system setup.

HDD LED

The HDD LED flickers when the DVR is recording or searching video on the hard disk drive.

Power LED

The POWER LED is lit when the unit is On.

USB Port

A USB port on the front panel is provided to connect external hard disk or flash drives for video clip copying or system upgrades. Position external drives close enough to the DVR so that you can make the cable connections, usually less than 6 feet. Use the USB cable provided with the hard disk drive to connect it to the DVR.

A USB mouse (not supplied) can be connected to the USB port. You can use the mouse to navigate through the screens and menus much like you would on a computer.

A USB to Serial converter can be connected to the USB port. Multiple text-in devices can be used with a USB to Serial converter.

Remote Control Buttons



- ① ID Button
- ② Camera Buttons
- ③ Sequence Button
- ④ Login/Logout Button
- ⑤ Arrow Buttons
- 6 Menu Button
- ⑦ Playback Buttons
- ⑧ Alarm Button
- ② Layout Button
- 10 Zoom Button
- 1) PTZ Button
- 12 Enter Button
- 13 Esc Button
- PTZ Control Buttons
- 15 Copy Button
- 16 Play/Stop Button



ID Button

If a DVR System ID is set to 0, the infrared remote control will control that DVR without any additional operations. (Refer to the *System Information* setup screen in this chapter for further information on setting the System ID.) If the system ID is 1 to 16, you must to press the button and then press the number button (1 to 16 (+10 & 6)) in order to control that DVR. If the System ID of two or more DVRs is set to 0, those DVRs will react to the infrared remote control at the same time.

Camera Buttons

Pressing the individual camera buttons will cause the selected camera to display full screen. Buttons 1 to 9 are also used to enter passwords.

Sequence Button

When in the Live Monitoring mode, pressing the **SEQUENCE** button displays live channels sequentially.

Login/Logout Button

Pressing the LOGIN/OUT button displays the Login or Logout screen.

Arrow Buttons

These buttons are used to navigate through menus and GUI. You can also use them to change numbers by highlighting a number in the menu and using the Up and Down arrow buttons to increase or decrease the number's value.

When in the PIP display format, pressing theUp and Down arrow buttons moves the position of the small screen counter-clockwise and clockwise.

Pressing the Left and Right buttons moves through screen pages in the Live Monitoring mode and Search mode.

Menu Button

In the Live Monitoring mode and Search mode, pressing the top of the screen.

Playback Buttons

- Rewind: Pressing the < button plays video backward at high speed. Pressing the button again toggles the playback speed from 44, 444 and 4444.
- Play/Pause: Pressing the <u>M</u> button plays back video at regular speed. The screen displays when the DVR is in the Pause mode and the screen displays the DVR is playing back video.
- Fast Forward: Pressing the button plays video forward at high speed. Pressing the button again toggles the playback speed from \rightarrow , $\rightarrow\rightarrow$ and $\rightarrow\rightarrow\rightarrow\rightarrow$.

- Stop: Pressing the 🔳 button stops playback and enters the Live Monitoring mode.
- Backward: When in the pause mode, pressing the 🔳 button moves to the previous image.
- Forward: When in the pause mode, pressing the **b** button moves to the next image.

In the Live Monitoring mode, pressing any playback button enters to the Search mode.

Alarm Button

Pressing the ALARM button resets the DVR's outputs including the internal buzzer during an alarm.

Layout Button

Pressing the <u>LAYOUT</u> button toggles between different display formats. The available formats are: 3x3, 1P7, 1P5, 2x2 and PIP.

Zoom Button

Pressing the 200M button zooms the current image on the screen. A PIP with a rectangle temporarily displays showing what area of the screen has been enlarged. You can use the arrow buttons to move the rectangle to another area.

PTZ Button

Pressing the PTZ button enters the PTZ (Pan/Tilt/Zoom) mode which allows you to control properly configured cameras.

Enter Button

The \leftarrow (Enter) button selects a highlighted item or completes an entry that you have made during system setup. This button is also used to enter the Cameo mode in the Live Monitoring mode or Search mode (8-ch Model Only).

Esc Button

During menu setup, pressing the ESC button closes the current menu or setup dialog box.

PTZ Control Buttons

While in the PTZ mode, the **PRESET** buttons are used to save Presets and load a Preset View, the **ZOOM** buttons are used to Zoom In and Zoom Out, and the **FOCUS** buttons are used for Near Focus and Far Focus.

Copy Button

Pressing the COPY button allows you to copy video clips.

Chapter 4 – Operation

NOTE: This chapter assumes your DVR has been installed and configured. If it has not, please refer to Chapters 2 and 3.

The DVR's controls are similar to a VCR. As with a VCR, the main functions are recording and playing back video. However, you have much greater control over recording and playing back video. You can establish recording schedules based on time of day and day of the week. The DVR allows you to search through the recorded video using much more sophisticated tools than those available with VCRs. Additional DVR features that are not available with VCRs are remote control and viewing, and recording video at the same time you are watching previously recorded video.

The front panel controls are described in *Chapter 3 – Configuration*.

Turning on the Power

Once you have installed the DVR following the instructions in *Chapter 2 – Installation*, it is ready to record.

Live Monitoring

As soon as the DVR completes its initialization process, it will begin showing live video on the attached monitor and playing live audio through the attached speaker. The default mode is to display all cameras at once. Pressing any camera button will cause that camera to display full screen. It displays live video and plays live audio until the user enters another mode.

While in the live monitoring mode, pressing the <u>MENU</u> button displays the following Live Monitoring menu at the top of the screen. Pressing the <u>ESC</u> button hides the menu. You can navigate through menus and items by pressing the arrow buttons.



- 1) Display
- Freeze
- ③ Sequence
- ④ Camera Menu
- (5) Alarm
- ⑥ Digital Deterrent
- ⑦ Panic
- ⑧ Setup
- ③ Search Mode
- 10 Login/Logout

Figure 65 – Live Monitoring menu.

NOTE: The Live Monitoring menu also can be displayed by moving the mouse pointer to the top of the screen.

Live Monitoring Menu

Display

Selecting - (Display Menu) in the Live Monitoring menu displays the following Display Menu.

Camera	×	
Screen	۲	
Previous Group		
Edit Group		
OSD		

• Camera: Selecting Camera and choosing the camera number displays the selected camera full screen. It is the same as pressing the individual camera buttons on the front panel or clicking the left mouse button on a camera image when in one of the multiview formats (i.e., 2x2, 1P5, 1P7 or 3x3). Clicking the left mouse button on the screen again returns to the previous display mode.

• Screen: Selecting Screen and choosing the screen mode (PIP, 2x2, 1P5, 1P7 or 3x3) displays the cameras in the selected multiview screen mode. Selecting each display mode is the same as scrolling the mouse wheel up and down when in one of the multiview formats (i.e., 2x2, 1P5, 1P7 or 3x3).

NOTE: In the 1P5 or 1P7 display mode, the main channel indicates the channel displayed on the large screen which is displayed in the top-left. You can select the camera you want to display on the main channel screen. Select a channel on the screen and click the right mouse button to display the Camera Menu. Selecting Go To Main swaps the selected channel with the main channel. This function is supported only in the 1P5 and 1P7 display modes and can be activated from any of channel screens except the main channel screen.

NOTE: You can change the location of the PIP (Picture-in-Picture) counterclockwise or clockwise by pressing the Up and Down arrow buttons and change its size by pressing the Left and Right arrow buttons. To change its location and size by using the mouse, select the PIP and then click the right mouse button to display the following menu. Select the options you want. You can also change the location of the PIP by clicking the left mouse V Size 1/4 button on the PIP window and dragging it to where you want it located, and change the size of the PIP by clicking the left mouse button at the corner of the PIP window and dragging it until it is the desired size.



- Previous Group, Next Group: Selecting Previous Group or Next Group moves to the previous or next page.
- · Edit Group: SelectingEdit Groupenters the cameo mode. Refer to the following Active Cameo Mode for details.
- OSD: Selecting OSD toggles OSD On and Off.

Freeze

Selecting 😤 (Freeze) in the Live Monitoring menu will freeze the current image on the screen until you select Magain. It is the same as pressing the (Play/Pause) button on the front panel. While in the Freeze mode, the icon £3 displays in bottom-left corner if Freeze is selected in the Display setup screen (OSD tab).

Sequence

Selecting \square (Sequence) in the Live Monitoring menu causes the cameras to display sequentially. When in one of the multiview formats, selecting *Sequence* will cause the DVR to go through predefined screen layouts (Full Sequence). Or, the bottom, right screen will display live cameras sequentially (Cameo Sequence). For example, if you selec \square (Sequence) in the Live Monitoring in the 2x2 format, the 8-channel DVR changes pages as follows:



Selecting again in the Live Monitoring menu exits the Sequence mode. While in the Sequence mode, the \mathbf{F} icon displays in bottom-left corner if Sequence is selected in the Display setup screen (OSD tab). If all the cameras in a page are Off, or have lost video or are set to Covert (unless the user has authority to view covert cameras), that page will be excluded from the sequence.

NOTE: The *Full Sequence* for the full sequence monitoring and the *Cameo Sequence* for the cameo sequence monitoring should be selected in the Display setup screen (Main Monitor tab).

Camera Menu

Selecting 🗖 (Camera Menu) in the Live Monitoring menu displays the following Camera Menu.



• PTZ: Selecting PTZ and choosing the camera number allows you to control the selected camera as long as it has Pan, Tilt and Zoom capabilities. Refer to the following *PTZ Mode* section for details.

- Zoom: SelectingZoom and choosing the camera number zooms the current image of the selected camera on the screen. Refer to the following *Zoom Mode* section for details.
- · Audio: Selecting Audio toggles audio output On and Off.
- Color Control: SelectingColor Control and choosing the camera number allows you to control brightness, contrast, hue and saturation for each camera for the selected camera if a user who has Color Controlauthority logs into the system. It is the same as pressing and holding a camera button for a few seconds.

NOTE: It is important that cameras and monitors are correctly installed and adjusted prior to making any image adjustments using the DVR's controls.

NOTE: Any image adjustments you make will be applied to both the live video on the monitors and the recorded video.

NOTE: The *Camera Menu* also can be displayed by clicking the right mouse button on the screen while in the live monitoring mode.

Alarm

Selecting (Alarm) in the Live Monitoring menu resets the DVR's outputs including the internal buzzer during an alarm. It is the same as pressing any button on the front panel when the alarm is activated.

Zoom Mode

You can enlarge an area of the video by selecting \Box (Camera Menu) \rightarrow Zoom in the Live Monitoring menu. For a few seconds after selecting (Camera Menu) \rightarrow Zoom from the Camera, a rectangle displays on the screen. A rectangle shows the area that will be enlarged. You can move the rectangle around using the arrow buttons. Pressing the O (Play/Pause) button in the Zoom mode enlarges the area in rectangle. Exit the Zoom mode by selecting (Exit) in the Zoom menu displayed when pressing the \underbrace{WENU} button. While in the Zoom mode, the icot displays if Zoom is selected in the Display setup screen (OSD tab).

Event Monitoring

When an event occurs, the DVR will display the camera associated with the event if Event Monitoring On is selected in the Display setup screen (Main Monitor tab).

How the cameras are displayed depends on the number of cameras associated with the event. If one camera is associated with the event, the DVR will display the camera full screen. If two to four cameras are associated with the event, the DVR will display the cameras on a 2x2 screen. If five to eight cameras are associated with the event, the DVR will display the cameras on a 1P5, 1P7 or 3x3 screen.

Event monitoring lasts for the dwell time set for event recording. After the dwell time has elapsed, the monitor returns to the previous screen unless another event has occurred. If you want to return to the live monitoring mode before the dwell time has elapsed, press one of the camera buttons.

Covert Camera

If a camera is set up as **Covert 1** in the Camera setup screen (Settings tab), that camera will not be displayed unless a user with **Covert Camera View** authority logs into the system. However the camera title and status icons will be displayed on the monitor.

If a camera is set up as **Covert 2** in the Camera setup screen (Settings tab), that camera appears to be Off unless a user with **Covert Camera View** authority logs into the system. The camera title will be grayed out and status icons will not be displayed on the monitor.

NOTE: When a camera is set up as *Covert 1*, the DVR displays the camera title and status icons on the covert video. When set up as *Covert 2*, the DVR displays only the camera title on the covert video.

If a user who has **Covert Camera View** authority logs into the system, the user can view video from cameras set to **Covert 1** or **Covert 2** including the camera titles and status icons.

PTZ Mode

If a user who has PTZ Control authority logs into the system, the user can control PTZ cameras. The DVR will control cameras with Pan, Tilt and Zoom capabilities. Select \square (Camera Menu) \rightarrow PTZ in the Live Monitoring menu to display the PTZ camera menu and enter the PTZ mode. Selecting \square (Exit) in the PTZ menu displayed when pressing the MENU button exits the PTZ mode.

Camera Buttons: Pressing the individual camera buttons will cause the selected camera to display full screen.

Arrow Buttons: Pressing the \blacksquare button plays video backward at high speed. Pressing the button again toggles the playback speed from \blacktriangleleft , \blacksquare and \blacksquare . Pressing the \blacktriangleright button plays video forward at high speed. Pressing the button again toggles the playback speed from \blacktriangleright , \blacksquare and \blacksquare . When in the pause mode, pressing the button moves to the next image and pressing the \blacksquare button moves to the previous image.

Play/Pause Button: Pressing the button plays back images at regular speed opauses playing video.

Play/Stop Button: Pressing the <u>PLAY/STOP</u> button enters the playback mode, and pressing the button again exits the playback mode. When entering the playback mode, video is paused. Pressing the O button plays back video at regular speed. The screen displays || when the DVR is in the Pause mode and the screen displays \blacktriangleright when the DVR is playing back video.

You can use a mouse for convenient playback control. Position the mouse pointer on the playback screen, and the following Record Table Search (Compact View Mode) screen will display. The individual controls on the toolbar perform the following functions as described below:



Searching Video

While in the search mode, pressing the MENU button displays the following Search menu at the top of the screen. Pressing the ESC button hides the menu. You can navigate through menus and items by pressing the arrow buttons.



- Display
- Search
- ③ Go To
- ④ Export
- 5 Camera Menu
- 6 Alarm
- Digital Deterrent
- ⑧ Panic
- ⑦ Data Source
- 8 Exit

Figure 68 - Search menu.

NOTE: The Search menu also can be displayed by moving the mouse pointer to the top of the screen.

Search Menu

Display

Selecting - (Display Menu) in the Search menu displays the following Display Menu.

Camera	۲	
Screen	٠	
Previous Group		
Next Group		
Edit Group		
OSD		

- Camera: Selecting Camera and choosing the camera number displays the selected camera full screen. It is the same as pressing the individual camera buttons on the front panel or clicking the left mouse button on a camera image when in one of the multiview formats (i.e., 2x2 or 3x3). Clicking the left mouse button on the screen again returns to the previous display mode.
- Screen: Selecting Screen and choosing the screen mode (PIP, 2x2 or 3x3) displays the cameras in the selected multiview screen mode. Selecting each display mode is the same as scrolling the mouse wheel up and down when in one of the multiview formats (i.e., 2x2 or 3x3).
- Previous Group, Next Group: Selecting Previous Group or Next Group moves to the previous or next page.
- Edit Group: Selecting Edit Group enters the cameo mode.
- OSD: Selecting OSD toggles OSD On and Off.

Search

Selecting Q (Search) in the Search menu displays the following Search menu. See the following Event Log Search, Record Table Search, Motion Search and Text-In Search sections for details.

Event Log Search	• Event Log Search: Selecting Event Log Search selects video from the
Record Table Search	event log
Motion Search	Depart Table Secret: 0.1.4.1. Depart Table Secret - 1.4.
Text_In Search	• Record Table Search. Selecting Record Table Search selects using a

- arch: Selecting Record Table Search selects using a recording table.
- Motion Search: Selecting Motion Search selects motion events.
- Text-In Search: Selecting Text-In Search selects text input strings.

Go To

Selecting 4 (Go To) in the Search menu displays the following GO TO menu.

Go to the First
Go to the Last
Go to the Date/Time

• Go to the First: Selecting Go to the First displays the first recorded image.

• Go to the Last: Selecting Go to the Last displays the last recorded image.

• Go to the Date/Time: Selecting Go to the Date/Time displays the Go to the Date/Time screen.



Move the cursor over the date and time and press the (Play/Pause)button. You can use the Left and Right arrow buttons to highlight the year, month, day, hours, minutes and seconds. Use the Up and Down arrow buttons to change to the date and time you want to search for video.

Once you have set the date and time you want, press the button. Then highlight Go and press the O button. The selected date and time will display. (If no video was recorded during the selected time, a message appears alerting you that no image was recorded at that time.) The button and arrow buttons can now be used to review the surrounding video.

Export

Selecting 🖫 (Export) in the Search menu displays the following Export menu. See the following *Clip Copy* section for details.

```
EZ Copy
Clip–Copy
Digital Deterrent Recording
```

- EZ Copy: Selecting EZ Copy will set the starting point of the video to be clip copied, and the the icon displays at the bottom-left corner of the screen. Selecting EZ Copy again will set the ending point of the video to be clip copied and displays the Clip-Copy screen.
- Clip-Copy: Select Clip-Copy, and the Clip-Copy screen appears to allow clip copy setup.
- Digital Deterrent Recording: Selecting Digital Deterrent Recording allows you to extract audio files from recorded audio on the DVR. Refer to *Chapter 3 Configuration Digital Deterrent* section for details.

Camera Menu

Selecting 🗖 (Camera Menu) in the Search menu displays the following Camera Menu.



- Zoom: SelectingZoom and choosing the camera number zooms the current playback image of the selected camera on the screen.
- Audio: Selecting Audio toggles audio playback On and Off. Recorded audio will be played when the DVR displays a camera with recorded audio in full screen mode.
- Enable De-Interlace: Selecting Enable De-Interlace turns the de-interlace filters on.

NOTE: The video signal has a time difference of 1/60 second (1/50 second for PAL) between odd and even fields because it is composed of 60 interlaced fields per second (50 fields for PAL). When recording video with Very High (D1) resolution, video is made up of frame units combining two fields – one odd field and one even field. This can cause horizontal scan lines or flashes in areas with motion because of the time difference between the two fields. Turning on the de-interlace filter provides clearer video by eliminating these horizontal scan lines and flashes.

NOTE: The *Camera Menu* also can be displayed by clicking the right mouse button on the screen while in the search mode.

Alarm

Selecting (Alarm) in the Search menu resets the DVR's outputs including the internal buzzer during an alarm. It is the same as pressing any button on the front panel when the alarm is activated.

Digital Deterrent

Selecting Control (Digital Deterrent) in the Search menu displays the following setup screen and allows the DVR to play manually.

Manual Digital Deterrent		
Select Digital Deterrent source		
Source name	Default	v
	Trigger	Close

Highlight the box besideSource name and press the button to select the source file to play. Highlighting Trigger plays the selected file as the digital deterrent.



Clip-Copy

Video clips can be copied on an external USB hard disk or flash drive. The copied video clips can be viewed on computers running Microsoft Windows 98, ME, 2000, XP, Vista or 7. Refer to the *Appendix – USB Hard Disk Drive Preparation* for information on preparing the external drive for clip copy.

Selecting EZ Copy from the Export menu in the Search menu or pressing the DPY button during playback will set the starting point of the video to be clip copied, and the in icon displays at the bottom-left corner of the screen. Selecting EZ Copy again from the Export menu in the Search menu or pressing the COPY button again will set the ending point of the video to be clip copied by displaying the Clip-Copy screen.

Select Clip-Copy from the Export menu in the Search menu, press the COPY button while in the Search mode, and the Clip-Copy screen appears to allow clip copy setup.

Clip-Copy			
From	🗌 First	08/12/2011 14:36:19	\$
То	Last	08/12/2011 14:36:19	\$
Channels		1~8	
Password		<none></none>	
Dest.	1: Partition 1 [62 MB]		
File name	08122011.exe		
	Include Text-In Data		
Progress			
		Start	
		start	ose

You can search video from the first to last recorded images, or you can set the start and stop times and dates.

Highlight the box beside From and press the \bigcirc (Play/ Pause) button to toggle between On and Off. When set to Off, you can enter a specific Date and Time. When set to On, the search will be from the first recorded image.

Highlight the box beside To and press the O button to toggle between On and Off. When set to Off, you can enter a specific Date and Time. When set to On, the search will be to the last recorded image.

Figure 73 - Clip-Copy screen.

Highlight the box beside Channels and press the ⁽²⁾ button. You can select the cameras that you would like to include in your video clip.

Highlight the box beside Password and press the button. A virtual keyboard appears allowing you to enter the password for reviewing the video clips.

Highlight the box beside Dest. and press the button. You can select the storage device on which you would like to record the video clip.

CAUTION: The USB device for clip copy must be FAT 16 or FAT32 format.

The DVR automatically assigns a file name to the video clip. However, you can give the video clip file a different name. Highlight the box beside File Name and press the button. A virtual keyboard appears. Enter a file name for the video you are backing up and sele **Colose**. The DVR will automatically add the camera number (for example "01") and ".exe" to the file name.

NOTE: When naming a file, you cannot use the following characters: \, /, :, *, ?, ", <, >, |.

Highlight Include Text-In Data and press the ⁽⁵⁾ button. This will toggle between On and Off. When this feature is On, you can include text-in data when copying video if the video was recorded with text-in data.

Once you have given the video clip a file name, highlight th**Start** button and press the button. The confirmation screen displaying data size will appear. When the storage device does not have enough space, the DVR will ask if you want to copy as much of the video clip as possible in the available space.

Highlight the **Continue** button and press the 🕑 button to continue clip copy.

Once the clip copy starts, you can cancel it by selecting **Cancel** or hide the screen by selecting **Close**. When selecting **Close**, Clip Copy continues and a confirmation screen will display when complete.

NOTE: The file size for clip copy is limited to 30GB. When copying video clips larger than 2GB, the video clips will be save in units of 2GB. For example, 3 individual 2GB files will be created when saving a 6GB video clip.

You can use other functions on the DVR while video is being backed up. To do this, highlight the Close button and press the button. You can return to the Clip-Copy screen at any time to check the progress.

You do not need to install any special software on your personal computer to review the video clips. Refer to the Speco Central Operation Instruction for instructions on how to review video clips you have copied.

NOTE: During Clip Copy, you cannot shut the system down, clear data on the storage device, or format the storage device.

CAUTION: Do NOT disconnect the USB cable or the power from the external drive while copying video clips. If the external drive is shut down or the USB cable is disconnected while copying video clips, THE DVR SYSTEM MAY NOT WORK NORMALLY OR THE EXTERNAL DRIVE COULD BE DAMAGED, and you will get an error message the next time you try to copy video clips. You will need to power down the DVR and restart it to get rid of the error message. Once the file system of the USB hard disk drive has been corrupted, this error message cannot be dismissed. Even after restarting the DVR it may automatically restart while preparing to clip copy. You must recover the file system using the recovery program, or you must reformat the hard disk drive.

Computer system requirements for using the Speco Remote program are:

- Operating System: Microsoft[®] Windows[®] XP x86 (32 Bit) (Service Pack 3), Microsoft[®] Windows[®] Vista x86 (32 Bit) (Service Pack 1), Microsoft[®] Windows[®] 7 x86 (32 Bit)
- CPU: Intel Pentium III (Celeron) 600MHz or faster
- RAM: 128MB or higher
- VGA: 8MB or higher (1024x768, 24bpp or higher)
- Internet Explorer: Version 6.0 or later

Start Internet Explorer on your local PC. You can run the Speco Remote program by entering the following information in the address field.

- "http://IP address:12088" (The DVR IP address and the Speco Remote port number (default: 12088) set in the Network setup screen (Speco Remote tab))
- Or, "http://DDNS.SPECOTECH.NET/YOURNAME" (The DVRNS server address and the DVR name registered on the DVRNS server)

NOTE: You will need to get the appropriate IP address for the DVR you want to connect to and the Speco Remote port number from your network administrator.

NOTE: Speco Remote only works with Microsoft Internet Explorer and will NOT Work with other browsers such as Google Chrome, Mozilla, Firefox, etc..



Select between the Remote Watch (Web monitoring) and Remote Search (Web search) modes. Entering ID and PASSWORD and clicking the [LOGIN] button logs in using the selected mode.

NOTE: Do NOT close the LOGIN window during the Speco Remote operation, otherwise, it will cause a script error when switching between Web monitoring and Web search modes and running the Speco Remote program again will be required.

NOTE: When running the updated Speco Remote for the first time, Internet Explorer might occasionally load the information of the previous version. In this case, delete the temporary internet files by selecting Tools \Rightarrow Internet Options \Rightarrow General tab, and then run Speco Remote again.

NOTE: There might be a problem that the bottom of Speco Remote page is cropped due to the address or status bars in Microsoft Internet Explorer 7.0. In this situation, it is recommended that websites open windows without address or status bars by changing the internet setting. (Go to the Tools) Internet Options) Security tab) Click the Custom level... button \Rightarrow Select Enable for the Allow websites to open windows without address or status bars option)

NOTE: When running Speco Remote in the Microsoft Windows Vista or higher operating system, it is recommended to start Internet Explorer with elevated administrator permissions. Click the right mouse button on the Internet Explorer icon and select the *Run as administrator* option from the context menu. Otherwise, some functions of Speco Remote might be limited.

NOTE: There might be a problem with screen display or screen update due to low image transmission speed when using the Microsoft Windows Vista or higher operating system. In this situation, it is recommended you disable the Auto Tuning capability of your computer.

Run the Command Prompt with elevated administrator permissions (Go to the Start Menu \Rightarrow Accessories \Rightarrow Command Prompt \Rightarrow Click the right mouse button and select the Run as administrator option). Then enter "netsh int tcp set global autotuninglevel=disable" and hit the enter key. Restart your computer to apply the changes.

If you want to enable the Auto Tuning capability again, enter "netsh int tcp set global autotuninglevel=normal" after running the Command Prompt with elevated administrator permissions. Restart your computer to apply the changes.

Web Monitoring Mode

Remote Watch is a remote web monitoring program that allows you to monitor live video transmitted in real-time from the remote DVR.



- ① Click the 🔤 to log out the Speco Remote program.
- ② Click the Sto access to the web search mode.
- ③ Position the mouse pointer on the WebWatch logo to see the version of the Speco Remote program.
- ④ The DVR information window displays the login information of Speco Remote.
- ⑤ Click the screen format to select the desired display mode. When changing the screen format, the selected camera on the current screen will be located in the first cell of the new layout.
- 6 Click the camera button to select the camera to be viewed.
- ⑦ Click the 🔤 to adjust the brightness, contrast, saturation and hue of monitoring image.
- 8 Click the local to control pan, tilt and zoom of the camera from a remote site.

④ Click the location to control alarm out devices at the remote site.



- ① Click the B to set up the image drawing mode and OSD display. You can adjust the display speed by changing the image drawing mode, and select OSD information to be displayed on the screen.
- ① Click the **I** to save the current image as a bitmap or JPEG file format.
- ⁽²⁾ The event status window at the bottom displays a list of events that were detected from the remote site.
- 3 Selecting a camera on the screen and clicking the right mouse button displays the text menu screen.



- Change Camera Title: Changes the camera name.
 - Enable Audio: Enables audio communication with the remote site. When the audio control panel displays, click the to send audio to the connected remote site and click the button again to stop sending audio. Click the to monitor live audio from the connected remote site through the attached speaker and click the button again stopmonitoring live audio. Clicking both allows two-way communication. Clicking the × disables audio communication.
- · Aspect Ratio: Changes the image aspect ratio.
- Deinterlacing Using a deinterlace filter for interlaced video enhances image display quality by eliminating horizontal scan lines and noise in areas with motion.
- Anti-Aliasing Screen: Enhances image display quality by eliminating stair stepping (aliasing) effects in the enlarged image.

NOTE: A camera name change in the Remote Watch mode does not affect the camera name set up on the remote site. Leaving the Camera Title blank causes the camera name set up on the remote site to display.

NOTE: The (1) icon will display on each camera screen when audio communication is available between the Speco Remote system and a DVR.

Web Search Mode

Remote Search is a remote web search program that allows you to search recorded video on the remote DVR.

NOTE: The remote site connection in the Remote Search mode will automatically be disconnected if there is no activity for 30 minutes.

4- & 8-Channel Digital Video Recorder



- ① Click the **le** to log out the Speco Remote program.
- ② Click the local to access to the web monitoring mode.
- (3) Position the mouse pointer on the WebSearch logo to see the version of the Speco Remote program.
- (4) The DVR information window displays the time information of recorded data on the remote DVR and login information of Speco Remote.
- (5) Click the **Z** to blur, sharpen, equalize and interpolate playback images. Click the source to zoom out or zoom in the recorded image. Click the source to adjust the brightness of the recorded images.

NOTE: Image processing works only in the pause mode.

- (6) The playback function buttons include fast backward, pause, play, fast forward, go to the first image, go to the previous image, go to the next image, and got to the last image.
- \bigcirc Click the screen format to select the desired display mode.
- (8) Click the location to enter the time-lapse search mode which allows you to search for recorded data by time and then play back images found within the time parameters. The Timetable window located at the bottom displays the time information for the image of the date selected on the calendar. If more than one video stream in the same time range, you can select the video stream you

want to search. Clicking a specific time displays the image recorded at that time on the screen. Selecting the Sallows you to display an image from a specific time.

- ③ Click the **I** to enter the event search mode which allows you to search for event log entries using specific conditions and play back the images associated with those event entries.
- ⁽¹⁾ Click the ¹¹ to set up the image drawing mode and OSD display. You can change the display speed by adjusting the image drawing mode, and select OSD information to display on the screen.

Ô	Blur
Δ	Sharpen
tt.	Equalize
>	Interpolation
5	Revert
	8

hour	
minute	
second	
[Go To]	[Cancel]
	8

- ① Click the I to save any video clip of recorded data as an executable file, or click the to save the current image in a bitmap or JPEG file format. Click the to print the current image on a printer connected to your computer.
- 12 Click the 2 to reload the recording data.
- (3) The timetable displays recorded data of the selected camera by time (in hour segments).
- (a) Selecting a camera on the screen and clicking the right mouse button displays the text menu screen.

Change Camera Title Enable Audio	
Aspect Ratio	۲
Deinterlacing Anti-Aliasing Screen	

- Change Camera Title: Changes the camera name.
- Enable Audio Plays audio while playing back recorded video that has recorded audio. (Single-Screen Layout Only)
- · Aspect Ratio: Changes the image aspect ratio.
- Deinterlacing: Using a deinterlace filter for interlaced video enhances image display quality by eliminating horizontal scan lines and noise in areas with motion.
- Anti-Aliasing Screen: Enhances image display quality by eliminating stair stepping (aliasing) effects in the enlarged image.

NOTE: A camera name change in the Remote Search mode does not affect the camera name set up on the remote site. Leaving the Camera Title blank causes the camera name set up on the remote site to display.

Boot Up	Schedule Off
Shutdown Panic	On
Restart Panic	Off
Upgrade Clear	All Data
Upgrade Fail	Format Disk
Time Change	Disk Full
Time Zone Change	Disk Config Change
Time Sync	Disk 'No.' : 'serial number'
Time Sync Fail	Disk 'No.' : Removed
Disk Bad	Auto Deletion
Login Search	Begin
Logout Search	End
Setup Begin	Clip-Copy Begin
Setup End	Clip-Copy End
Remote Setup Change	Clip-Copy Cancel
Remote Setup Fail	Clip-Copy Fail
Setup Imported	Callback Fail
Setup Import Failure	Import Digital Deterrent file complete
Setup Exported	Import Digital Deterrent file error
Setup Export Failure	Export Digital Deterrent file complete
Setup Export Cancel	Export Digital Deterrent file error
Schedule On	

System Log Notices