



Viewing Live Video

After you install and set up the Cisco Video Surveillance IP Camera, you can connect to the IP camera through Internet Explorer and access the Camera Video & Control window to view live video from the IP camera.

The Camera Video & Control window also provides for controlling the video display, configuring preset positions, and controlling certain IP camera functions. Available controls depend on the privilege level of the user.

To view live video, log in to the IP camera and click **View Video** in the IP camera Main window menu bar. The Camera Video & Control window appears. This window displays live video from the camera and lets you control a variety of camera and display functions.

The controls that you see in the Camera Video & Control window depend on your IP camera privilege level and the configuration settings for the IP camera. Users with the Administrator privilege can access all controls. Users with the Viewer privilege do not have access to the following controls:

- Video image controls
- Motion detection controls

[Table 3-1](#) describes the controls in the Camera Video & Control window.

Table 3-1 *Camera Video & Control Window Controls*

Control	Description
Video controls	
Video Codec drop-down list	Choose the codec for video transmission (H.264 or MJPEG). You can choose H.264 only if the primary video stream (channel 1) is enabled. You can choose MJPEG only if the secondary video stream (channel 2) is enabled. For information about enabling and disabling video streams, see the “Streaming Window” section on page 4-1.

Table 3-1 Camera Video & Control Window Controls (continued)

Control	Description
Video Resolution drop-down list	<p>Choose the resolution for video transmission. The resolutions in this drop-down list depend on the video standard that you selected.</p> <p>The default value for H.264 is 1920 x 1080. The default value for MJPEG is 704 x 480.</p> <p>You cannot configure a secondary stream if you configure this resolution for 1920 x 1080.</p> <p>Note You can also change the resolution for video transmission by changing the value in the Video Resolution Type field, as described in the “Streaming Window” section on page 4-1.</p>
Right Arrow toggle button	<p>Click the Right Arrow to display the video image controls. The button changes to the Left Arrow button.</p>
Left Arrow toggle button	<p>Click the Left Arrow button to hide the video image controls. The button changes to the Right Arrow button.</p>
Video image controls	
Note These controls appear when you click the Right Arrow in the Video Control area.	
Brightness slider	<p>To control the brightness of the video image, drag the slider, or enter a value from 1 through 10 and press the Enter key. A higher value increases the brightness, and a lower value decreases the brightness. For example, if the IP camera is facing a bright light and the video appears too dark, you can increase the brightness.</p> <p>The default value is 5.</p>
Contrast slider	<p>To control contrast of the video image, drag the slider, or enter a value from 1 through 10 and press the Enter key. A higher value increases the contrast, and a lower value decreases the contrast.</p> <p>The default value is 5.</p>
Sharpness slider	<p>To control the sharpness of the video from the IP camera, drag the slider, or enter a value from 1 through 100 and press the Enter key. A higher value increases the sharpness, and a lower value decreases the sharpness.</p> <p>The default value is 50.</p>
Saturation slider	<p>To control the saturation of the video from the IP camera, drag the slider, or enter a value from 1 through 100 and press the Enter key. A higher value increases the saturation, and a lower value decreases the saturation.</p> <p>High saturation provides a vivid, intense color for a video image. With less saturation, the video image appears more muted and gray.</p> <p>The default value is 50.</p>
Restore button	<p>Reset white balance, brightness, contrast, sharpness, saturation, and hue to their default values.</p>

Table 3-1 Camera Video & Control Window Controls (continued)

Control	Description
Image tools	
Hotspot Zoom button	<p>Click this latch button to enable the digital zoom feature, which provides five-step digital zooming in for the normal (not full screen) video display. Click this button again to disable the digital zoom feature.</p> <p>To perform a digital zoom, engage the Hotspot Zoom button and click the video display. The first five clicks zoom the display. The sixth click returns to unzoomed display.</p>
Hotspot Pan/Tilt button	<p>Click this latch button to enable the hotspot pan/tilt feature, which lets you pan and tilt the IP camera toward a point that you click in the video display.</p> <p>To perform a hotspot pan/tilt action, engage the Hotspot Pan/Tilt button, then click the video image at the location toward which you want the IP camera to pan and tilt.</p> <p>This feature requires that the IP camera be installed with a pan/tilt mount that supports the Pelco D protocol and that pan and tilt functions are enabled.</p>
Save Snapshot button	<p>Capture and save the current video image as a .gif file or a .jpg file in the location of your choice and with the file name of your choice.</p> <p>When you click this button, the Snapshot window appears. Click Save and follow the on-screen prompts to save the image with the name and in the location that you want.</p>
Flip button	Rotate the video image by 180 degrees.
Mirror button	Reverse the video image.
Restore button	Display the default video image, which is not rotated and not reversed.
Full Screen button	<p>Display the video image in full screen mode.</p> <p>To return to normal display mode, click the full screen image.</p>
Motion detection	
Up Arrow toggle button	Click the Up Arrow to display the motion detection controls. The button changes to the Down Arrow button.
Down Arrow toggle button	Click the Down Arrow button to hide the motion detection controls. The button changes to the Up Arrow button.

Table 3-1 Camera Video & Control Window Controls (continued)

Control	Description
Motion detection controls	
Note These controls appear when you click the Up Arrow in the Motion Detection area and are available only viewing the primary (H.264) stream.	
Enable Motion Detection check box	<p>Enable the motion detection feature and display a grid over the video image.</p> <p>When motion detection is enabled, the IP camera monitors activity in regions of the video that you specify. If activity at a defined level occurs in any of these areas, the IP camera generates an alert and takes the actions that are configured as described in the “Event Notification Window” section on page 4-11.</p> <p>After motion detection has been enabled, you create specific regions that the IP camera monitors for activity. To create a motion detection region, right-click on the video image, choose Draw Region, and then click and drag across the motion detection grid to draw a green square or rectangle comprised of one or more grid squares. Up to eight of the following regions can be drawn:</p> <ul style="list-style-type: none"> • Motion inclusion regions—Designate areas to examine for motion. You can draw up to four motion inclusion regions. • Motion Exclusion Regions—Designate areas to ignore for motion. You can draw up to four motion exclusion regions. <p>For each region listed under the Region Properties area, you can configure the following properties:</p> <ul style="list-style-type: none"> • IsActive—Specifies whether the region is active (enabled) or not active (disabled). Chose true to enable a region; choose False to disable a region. • Location—Specifies the grid coordinate (X, Y) for the upper left corner of the region. • Name—You can enter a name of up to 12 characters for a region. • Region Type—Specifies whether the region is an inclusion or an exclusion region. Choose Inclusion to have the region examine for motion; choose Exclusion to have the region ignore motion. • Sensitivity—Designates the relative amount of activity that the IP camera must detect in the area before it generates an alert. A lower value means that more, or faster, activity is required to trigger an alert. A higher value means that less, or slower, activity is required. The default value is 80. • Threshold—Designates the percentage of pixels that the IP camera must identify as changed in the area before it generates an alert. The camera detects pixel changes at the defined sensitivity level. The default threshold value is 10. <p>To reset the sensitivity and threshold to their default values of 80 and 10 respectively, right-click on the region, and choose Restore Values.</p> <p>To remove a region, right-click it, and choose Delete Region.</p>
Save button	Save the current motion detection configuration.

Table 3-1 Camera Video & Control Window Controls (continued)

Control	Description
Focus/Zoom	
Up Arrow toggle button	Click the Up Arrow to display the focus/zoom controls. The button changes to the Down Arrow button.
Down Arrow toggle button	Click the Down Arrow button to hide the focus/zoom controls. The button changes to the Up Arrow button.
Focus/Zoom controls	
These controls appear when you click the Up Arrow in the Focus/Zoom area.	
Zoom slider	To control the field of view zoom factor, drag the slider left to zoom out (wide), or drag the slider to the right to zoom in (telephoto).
Focus slider	To control the field of view focus, drag the slider left to focus on near objects, or drag the slider to the right to focus on far objects.
Auto Focus button	Click to automatically focus the IP camera for the selected zoom.
Specify Region check box	Used in conjunction with the Auto Focus option. Check Specify Region check box and click Auto Focus to focus the IP camera with priority to a selected region in the field of view. The region is user configurable and can be moved around the screen.
Reset button	Reset the lens position and slider control positions to their default values (full wide and near).

