

PTZ Camera Setup

Hardware Configuration

The system must be able to communicate commands to the PTZ camera. This is done through either a RS422 or RS485 controller that is installed into the serial port on the back of the system.

This DVR does NOT support Coaxitron camera control or any other control system that sends the commands through the video coax cable.

We require a 18/2 wire run to the camera for control purposes. This is not the same wire used to power the camera; it is in addition to that wire.

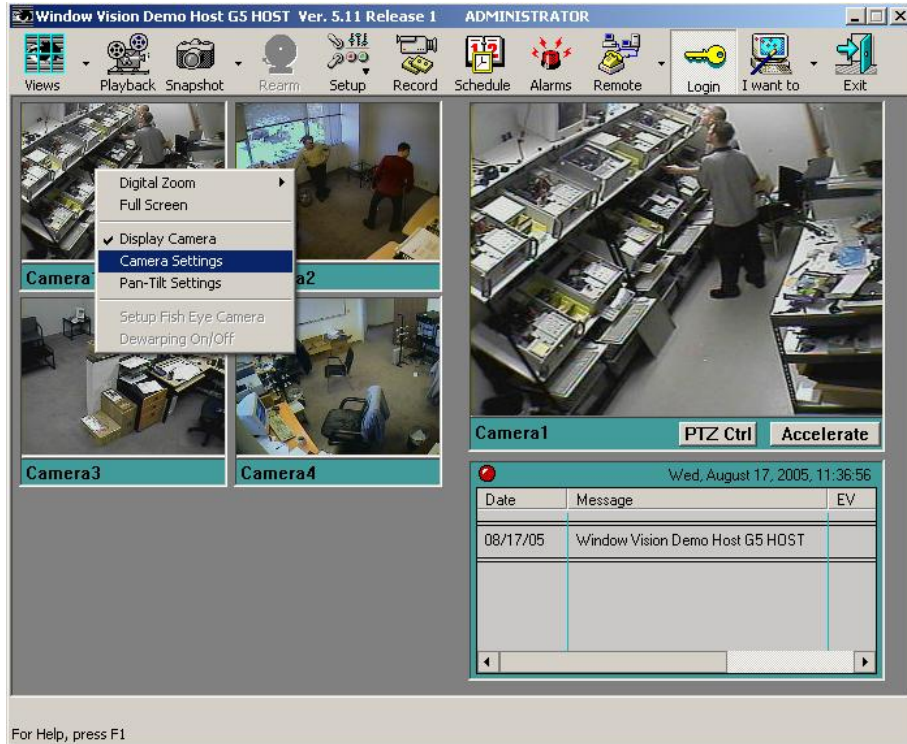
Choosing between the RS422 or RS485 controller is dependant on the camera being used. This DVR supports a specific PTZ camera models and it is important to check with your reseller to make sure the camera you are using is supported and which RS controller to use.

Both the RS422 or RS485 have transmit (tx) connections. These connections are listed as “+” / “-“ or “A” / “B”. The camera has receive (rx) connections that also have a polarity. Make sure to connect the control wires using the same polarity between the controller and the camera. NOTE: If after the hardware and software installation is complete, the camera fails to operate (PTZ) change the polarity of the control wire. This often fixes the problem.

The camera will have a method to set the camera’s “address”. Check with the camera manufacturer on how to set the camera’s address. Remember this address because it will be used in the software setup. The address is necessary for the program to distinguish one camera from another and is always used.

When the camera is more than 200 feet from the controller or when a RS485 is used it is necessary to power the RS422 or RS485 controller. The controller uses a 12 VDC 500ma power supply. This controller has a “+” and a “-“ connection for power. Be careful to connect the power using the correct polarity.

Software Configuration



When the camera signal from the PTZ is displayed in the program and all hardware connections have been made, Right-Click on the PTX camera in the main viewing window (Not in full-screen). Select Camera Settings from the Right-Click menu. Select “Analog PTZ Camera” on page one. Next select the “Camera Type” from the drop down menu. (Some cameras not listed in the camera type list can be operated by using Pelco “D” protocol. Set the camera and the software to Pelco D protocol. Many cameras work using this method, however some do not.) Once the camera type is selected, Press the Next button to exit and save this setting.

Again, Right-Click on the PTX camera in the main viewing window. Select “Pan Tilt Settings” from the Right-Click menu.



1. Select the Device tab. Enter the COM (communications) port where the RS controller is attached. There should only be one available in this drop down list.
2. Enter the camera address mentioned above in "Camera ID". Press the "Apply" button for these changes to take effect.
3. Select the Presets tab. Try to move the camera using the arrow buttons. If the camera moves then setup is complete.

Troubleshooting

If the camera does not move,

1. Check all hardware connections. Test the movement of the camera.
2. Invert the control wires on the RS controller. Test the movement of the camera.
3. make sure the camera address has been assigned on the camera and that the Camera ID is properly set in the software. The Camera ID must be set exactly without using any leading 0's. Test the movement of the camera.

Note

When installing a PTZ camera for the first time, it is best to test the camera next to the DVR unit. This make it easier to check connections before install and to make sure the camera operates with this system. This method is especially true when using a lift to install a camera. It can be time consuming and expensive to keep using the list if a problem presents itself.