Integration Note

Manufacturer:	AVIOSYS
Model Number(s):	**IP Video 9100B**
Minimum Core Module Version:	
Comments:	Server Version: IP Video V2.38 & V2.39
Document Revision Date:	2/13/2013

OVERVIEW AND SUPPORTED FEATURES

The AvioSys IP Video 9100B video server is a network device that has four analog video inputs and one audio input. When integrated to the **g!** system the analog video images and the one audio stream can be accessed from the viewer interface locally and or remotely.

Important Notes:

1. Due to a limitation with this video server - If more that one camera is connected to the video server it can take several seconds for the server to switch from one video feed to another. This will result in a delay of the video stream to the viewer interface when switching between cameras views.
2. The remote access audio and video quality will be dependant on the internet connection speed.
3. The video server can only stream one full video input at a time. If multiple video inputs are accessed at the same time the video server will switch to "Round Robin" mode feeding one image at a time to each viewer interface.

Note: Due to the above limitation, you should never connect more than one camera to an AvioSys when using the DVR Feature of the **g!** software.

UNSUPPORTED FEATURES

1. Motion detection is not supported on this video server. The server itself can detect motion but does not specify in which video stream the motion has occurred. If using this server with the **g!** DVR tab an external trigger will be necessary to initiate the recording, a security motion sensor for example could be used to start recording.

Any feature not specifically noted as "supported" is not supported.

INSTALLATION OVERVIEW

Installing the Video Server can be broken down into the following steps:

1. Install the Video Server at the desired location, and pull power, Cat5 and coax video cabling as needed.
2. Connect the Video Server electrically to the cameras and the home network and configure the Video Server. See **Video Server Configuration**.
3. Integrate the cameras into the **g!** system and test proper operation. This step is outlined in **g! Configuration Details**.

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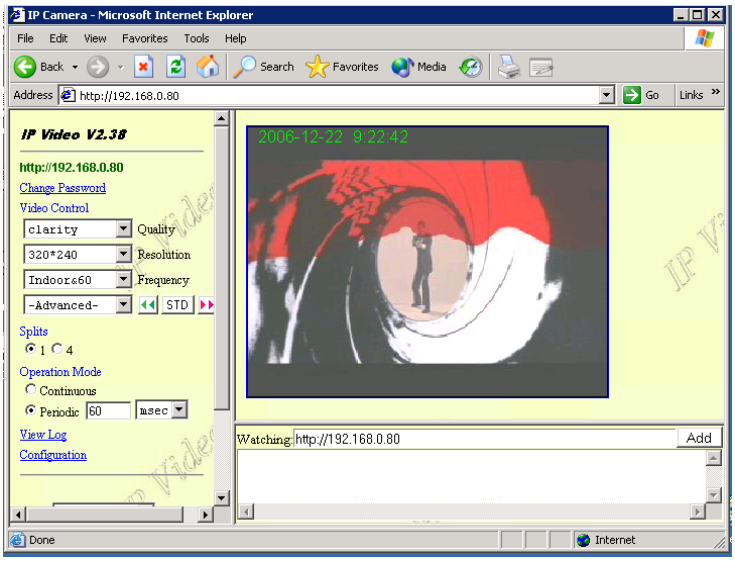
VIDEO SERVER CONFIGURATION

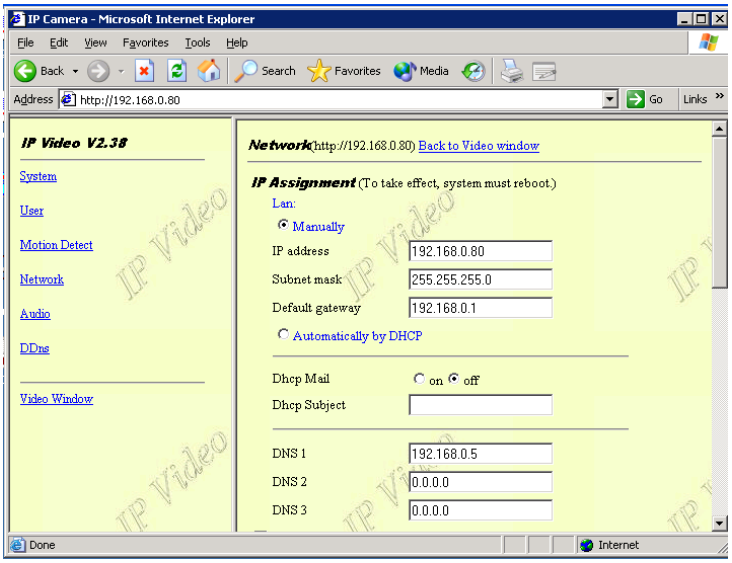
Video Server purchased from ELAN - If the Video server was purchased from ELAN it will have an ELAN label on the box. This label will note its current static IP address. If this IP address does not conflict with another on the network then proceed to **g! Configuration Details** to configure the video server in the **g!** software. If there is a conflict with another IP on the network then follow the **Video Server Browser Configuration** to change its IP address.

Video Server purchased from other than ELAN – See Video server CD configuration below.

VIDEO SERVER BROWSER CONFIGURATION

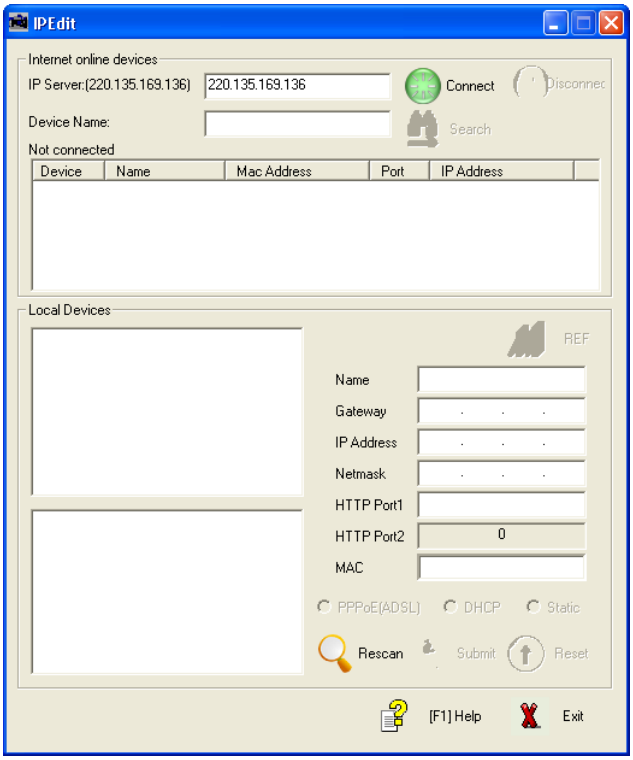
1. Connect the Video Server Ethernet port the network.
2. Start a browser and bring up the video server interface by typing in the IP address in the address bar of your browser - you should see a screen similar to the first image on the right.
3. Click **Configuration** at the left to bring up the configuration window, then click **network** to access the IP address assignment window as shown in the second window on the right.
4. If the IP address needs to be changed, click the **Manually** button at the top then enter the IP address to the desired value. We suggest setting the first video device in a **g!** system to 192.168.0.80, the second to 192.168.0.81 and so forth. Click the **Save** button at the bottom of the sceen to save your settings.
5. Cycle power to the video server for the IP configuration to take effect.
6. Browse to the video server at its new address to confirm the IP address changes.

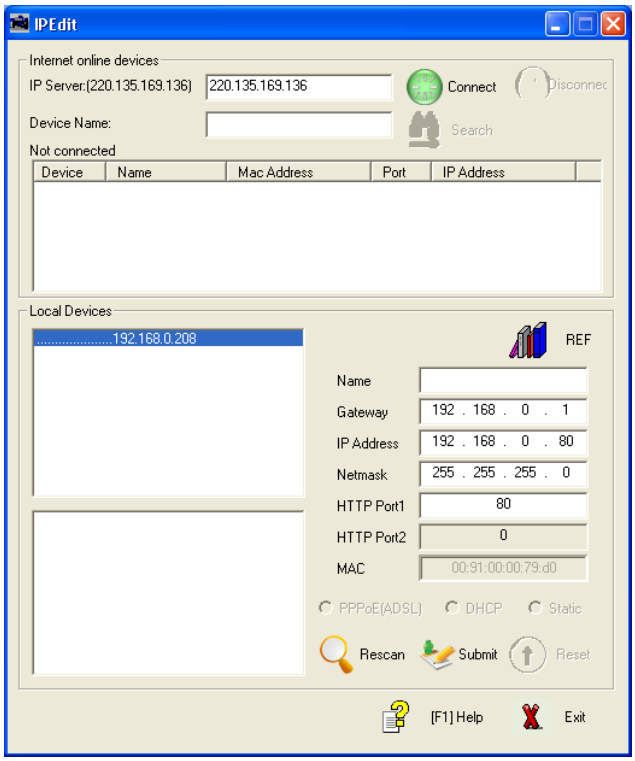




VIDEO SERVER CD CONFIGURATION

1. Insert the CD included with the video server into a PC connected to the same network as the server, it may start automatically and open a web page.
2. Follow the links to a program called **IPEdit**. If the web page does not open, browse to the application using windows file explorer.
3. Click the link and run the application to open a dialogue box as shown on the right.
4. Confirm the video server is connected to the network and powered up then click the Rescan button at the bottom of the dialogue box to find any video servers on the network.
5. The video server will show up with its current IP address in the local devices window.
6. Click on the local device IP address to allow setting its IP address as desired. Enter the IP address, gateway address, and subnet mask to the desired values. We suggest setting the first video device in a **g!** system to 192.168.0.80, the second to 192.168.0.81 and so forth. Click the **Submit** button at the bottom of the dialogue box to save your settings. See example on the right.
7. Cycle power to the video server, then browse to it at its new address to confirm the settings were saved. When properly connected the video window should show a digital time at the top corner – confirm that the timer is incrementing.





g! CONFIGURATION DETAILS

The following table provides settings used in the **g!** Configurator when connecting to a camera. Please refer to the *Configurator Reference Guide* for more details.

In the table below:

- "<Select>" Select the appropriate item from the list (or drop-down) in the Configurator.
- "<User Defined>", etc. Type in the desired name for the item.
- "<Auto Detect>", etc. The system will auto detect this variable.

Devices	Variable Name	Setting	Comments
Communication Device	**Name**	<User Defined> (Default: **New Device**)	
	Device Type	**Ethernet**	
	Communication Type	**AvioSys IP Video 9100B**	
	IP Address	<User Defined> (Default **192.168.0.80**, See Note 1)	
	Port	**80**	
Video Cameras	**Name**	<User Defined> (Default: **Darim NetGator**)	
	Device Type	**AvioSys Video Port** (See Note 2)	
	Location	<User Defined> (Not Required)	
	COM Device	<Select> (See Note 3)	
	Video Source	<Select> (See Note 4)	This is the video input: 1, 2, 3, or 4
	Favor Fast Frames	<Select> (Default: **Yes**) (See Note 5)	
	Flip Image 180	<Select> (Default: **No**)	For cameras mounted on the ceiling

Notes:

1. By Default the first Video Camera or Video Server is set to 192.168.0.80, the second to 192.168.0.81 and so on.
2. Add one AvioSys Video Port for each camera or video source connected to the server.
3. The **COM Device** is the Communication Device configured above. By default this is named **New Device**. It is recommended to rename the COM devices for clarity.
4. The Audio port on the AvioSys is connected to input 1 in the g! software.
5. Favor Fast Frames increases the frame rate for slow connections when viewing cameras over the Internet. Set this to **No** for video sources that will not be accessed over the Internet.

COMMON MISTAKES:

1. Using DVR functionality with more than one video stream: Due to limitations in the AvioSys, attempting to use the DVR functionality with more than one camera connected to the unit **WILL** result in undesired behavior, such as the wrong stream being recorded.