

IMPORTANT SAFETY INSTRUCTIONS



When using this device, basic safety instructions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- a. Do not use this product near water.
- b. Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightening.
- c. Do not use this product in the vicinity of a gas leak.

Additional Installation Requirements.

When installing, the placement of this device must also satisfy the following requirements:

- a. Connect the unit to a grounding type AC wall outlet (100-240 V AC) using the standard power cord/adaptor as supplied with the unit.
- b. Placement must allow for easily disconnecting the power cord/adaptor of the device from the AC wall outlet.
- c. Do not cover the device, or block the airflow to the device with any other objects. Keep the device away from excessive heat and humidity, and keep the device free from vibration and dust.
- d. Installation at all times must conform to local regulations.
- e. When the device will be connected to other systems, consult the documentation that came with those systems for additional regulatory information, safety instructions and installation requirements.
- f. Always disconnect the cables before opening the equipment enclosure or touching an uninsulated cable, jack or internal component.

SAVE THESE INSTRUCTIONS



AgileMesh™ Network Bridge AV3000 Series User's Guide

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INTRODUCTION

The AgileMesh Network Bridge (AV3000) is designed to facilitate the bridging between AgileMesh wireless mesh networks and customer local area networks (LAN's). When configured and connected, the AV3000 scans the mesh network, identifies video sources, and then automatically maps those sources to the LAN to which the AV3000 is connected. Its capabilities include:

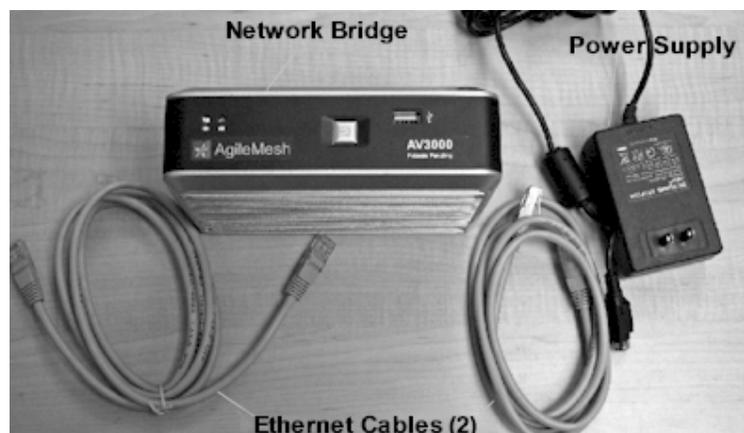
- Automated discovery of AgileMesh analog video ports
- DHCP server on the AgileMesh network
- Automated self-configuration for routing between networks
- Algorithmic mapping of AgileMesh analog video port IP addresses to LAN/WAN network ports
- Can accept a LAN/WAN network address via the DHCP protocol
- Replication of video streams toward the LAN/WAN to minimize loading on the wireless network
- Automatic DDNS setup based on video source names
- User-optional one-to-one manual remapping of IP addresses between the inside and outside networks
- Automatic port forwarding for AgileMesh network IP addresses assigned via DHCP
- Automatic dynamic web page generation with video thumbnail images to make identification and selection of video sources easy
- Automatic synchronization of the system times for all AgileMesh analog video ports connected to the AgileMesh network

GETTING STARTED

INCLUDED WITH THE AV3000

The AV3000 Network Bridge ships with the following items:

- An AV3000 appliance
- A DC power supply (110 Volts AC to 5 Volts DC)
- Two straight-through Ethernet cables. One of these is intended for connecting the AV3000 to an AgileMesh node. The other cable

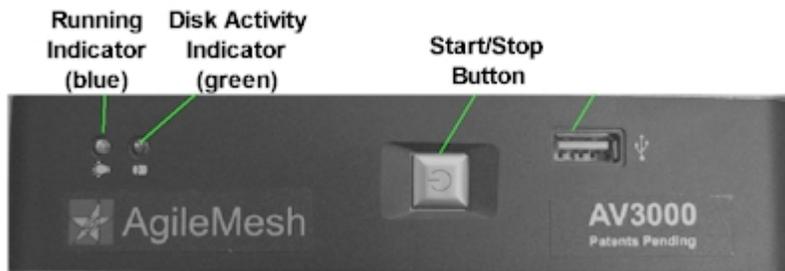


may be used to connect the LAN side of the AV3000 to an Ethernet switch attached to a LAN.

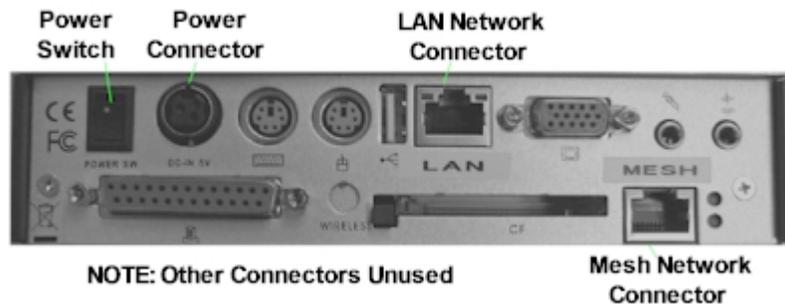
- Installation CD containing the AVR Discover utility installer and an electronic copy of this User's Guide (in PDF format.)

CONNECTING AND STARTING THE AV3000

The AV3000 default settings were chosen to make the most common type of setup entirely automatic. As a result, for most applications, there are only a few steps required to place the AV3000 into operation. Please refer to the front and back panel images below as you set up the AV3000.



AV3000 Front Panel



AV3000 Back Panel

The steps required to place an AV3000 into service are:

1. **Unpack and Inventory** – Unpack and locate the AV3000, the power supply and the two Ethernet cables. Make sure the rocker power switch on the AV3000 is in the OFF position (i.e. the side opposite the dot is depressed)
2. **Connect to AgileMesh network** - Connect one of the Ethernet cables to the Ethernet network port on an AgileMesh wireless node. Connect the other end of the cable to the “MESH” port on the back of the AV3000.

3. **Connect to LAN** - Connect one end of the other Ethernet cable to an Ethernet switch connected to the target LAN. Then connect the other end to the “LAN” port on the back of the AV3000.
4. **Power the AV3000** – Plug the AV3000 power supply into an AC outlet. Then connect the other end of the power cable to the power connector on the back of the AV3000. Turn the power on by depressing the “dot” side of the power rocker switch on the back of the AV3000.
5. **Start the AV3000** – Wait about 30 seconds and make sure the blue light on the front panel of the AV3000 remains off. Press the square START/STOP button on the front of the AV3000 for a couple of seconds, then release. The blue light on the front of the unit should come on within about 30 seconds. From this point, the startup is automatic and requires about 3 minutes for the networks to synchronize.

Note: If the AV3000 blue light comes on without your having pressed the START/STOP button, the AV3000 was not shut down properly before power was last removed. To recover, wait about 3 minutes and then briefly press the START/STOP button. After about 30 seconds the light should go out. Then, re-execute step 5 above.

USING THE AV3000

Many of the features of the AV3000 are completely automatic. These include the following:

- Once connected and started, the AV3000 makes available DHCP services on the AgileMesh wireless network to any connected devices that can use it. For example, a laptop connected via Ethernet to one of the AgileMesh wireless nodes, receives a network address from the AV3000 automatically. This works just the same way that most network connections of computers to LAN’s work.
- As soon as the AV3000 is connected and initialized, it finds all of the AgileMesh analog video ports on the AgileMesh wireless mesh network and automatically synchronizes their times with its own internal real-time clock. It continues to do this periodically so that the times displayed with the video streams remain consistent.
- As a result of its automatic survey of the AgileMesh wireless network, the AV3000 automatically builds and dynamically updates an embedded web page that provides easy access to the AgileMesh analog video ports. From a computer connected to one of the AgileMesh nodes on the mesh network, this web page can be accessed by entering “http://192.168.224.1” into the web browser’s address bar. Not only is this useful for a quick access to the video streams, but it displays the port numbers associated with the videos. The port numbers are useful in determining access to the video streams on the LAN side or over the Internet.
- In addition to these capabilities, the AV3000 acts as a self-configuring video router to facilitate connection to other networks. It automatically makes the video sources available on the network attached to the LAN side of the AV3000. It accomplishes this by mapping the discovered video sources into the IP addressing subnet associated with the LAN using the Network Address Translation (NAT) technique. One unique aspect of this automatic self configuration is that the video sources are mapped to predictable port

numbers. This means that you can access any of the AgileMesh video streams on the LAN if you know the AgileMesh node number that is providing the desired video source. Appendix A includes a table of default port number assignments associated with each of the node numbers.

USING THE AV3000 FROM THE MESH NETWORK

LOGIN FROM MESH

One of the useful aspects of the AV3000 is the ability to easily view video via the dynamically built web page embedded in the AV3000. This web page does require the user to login. The default username/password pair is “guest”/“guest” (without the quotation marks). This web page is accessible from the AgileMesh wireless mesh



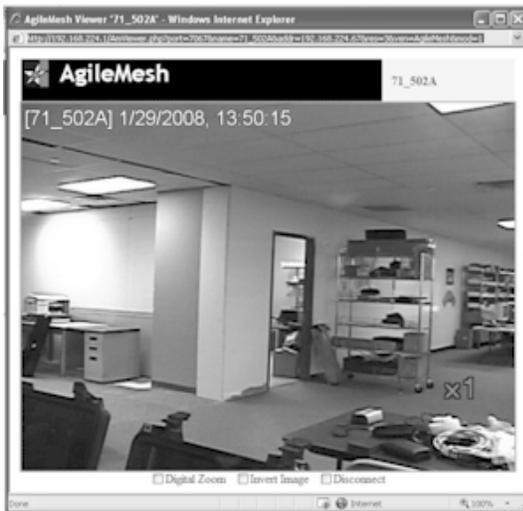
network through a web browser by entering “http://192.168.224.1” into the browser’s address bar. The login screen appears as shown to the left.

Once you are successfully logged into the AV3000, you will be presented with a web page that includes thumbnail images from each of the AgileMesh analog video ports located on the mesh network.

Beneath each thumbnail image are two buttons, one labeled “Admin”, the other labeled “View”. Clicking on the “Admin” button takes you to the web page for the corresponding video source. Clicking on “View” brings up a new browser window that includes the video stream from that particular video source. Following are screen captures that show what to expect from each of these selections.



AV3000 Main Browser Page



AV3000 View Window



AV3000 Admin Window

USING THE AV3000 FROM THE LAN NETWORK

LOGIN FROM LAN

Again, log on to the AV3000 internal web pages from the LAN side by entering the AV3000's IP address into your web browser's address bar. You can determine the correct IP address by running the AgileMesh Video Router ("AVR") Discover utility (see following section).

USING “VIEW” FROM THE LAN

All of the web page options appear to work identically whether accessed from the Mesh or the LAN side. However, the “View” button (located below the thumbnail image) functions differently when invoked from a LAN-based login. In this case, the video shown in the window that results from pressing the “View” button uses a replicated video stream. This means that up to five different users may view copies of the same video stream from five different computers attached to the LAN without causing the additional video streams to be transported over the wireless network.

The limit of five users may be changed in the Miscellaneous Configurations sections of the Admin page (described in later sections). The parameter that controls the maximum number of simultaneous viewers is changeable by pressing the “Video Multiplexer” button on the Admin page.

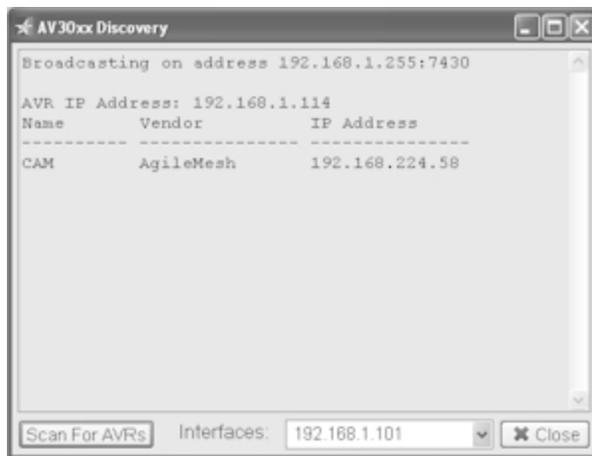
AVR DISCOVER UTILITY

Included on the installation CD included with the AV3000 is the AVR Discover utility program. This package is primarily useful for determining the address that has been assigned to the AV3000 for its LAN interface. It is designed to run on a PC that is connected to the LAN, not to the mesh network.

If the utility has not already been installed on your LAN-connected PC, insert the installation CD. If the installation program doesn’t automatically start, navigate to the AVRDiscover_install.exe file on the CD using Windows, and double-click it to launch the installation program. When the installation has completed, a new icon will appear on your desktop labeled “AVRDiscover”.

To run this program, double-click on the icon. Because your computer may have multiple network interfaces, use the drop-down list at the bottom of the AVR Discover Utility frame to select the interface associated with your PC’s connection to the LAN. Then, press the “Scan for AVRs” button at the bottom left of the utility frame. That will initiate a scan and should result in a report similar to that shown to the right.

The AVR IP Address reported is the address that has been assigned to the AV3000 on the LAN. Also included is a list of the AgileMesh cameras attached to the AgileMesh wireless video network along with their network IP addresses on the Mesh side of the AV3000.



PORTS – HOW TO SELECT

WHAT ARE PORTS?

As we use the term here, ports can be viewed as an additional field in the IP addressing scheme. This additional field is necessary when a video stream crosses the boundary from one network to another.

HOW DO THEY RELATE TO THE VIDEO SOURCES?

At the interface between an AgileMesh network and another LAN, every AgileMesh video stream originating on the mesh network has three port numbers associated with it...7xxx, 8xxx and 9xxx. In the mesh network, all of the AgileMesh analog video ports are associated with IP addresses between 192.168.224.049 and 192.168.224.149. The “xxx” digits shown in the port numbers above always correspond to the last 3 digits of the associated video source. For example, if the video source has an IP address of 192.168.224.052 (the address for node 1, camera 1 as shown on the port map in Appendix A), the associated port numbers are 7052, 8052 and 9052.

The mapping between AgileMesh node numbers and the associated ports is detailed in Appendix A.

As described in the following sections, the 7000-series port numbers are the video streaming ports, the 8000-series port numbers are the http access ports and the 9000-series ports are the replicated video ports.

WHICH PORTS SHOULD YOU USE?

Choosing the port number depends on the network (i.e., the Mesh or the “LAN”) to which the computer is connected and the program being used to access the video. Following are some recommendations for various situations.

FROM THE MESH

USING THE BROWSER TO VIEW VIDEO

To view video using a browser, it is not necessary to specify a port. For example, it is possible to just enter the mesh IP address as a URL and access the video source directly. Of course, with the AV3000, it is easier to just click on the “Admin” button underneath the appropriate thumbnail image on the AV3000 web page.

USING A VIEWING PACKAGE

Often, it is desirable to run a viewing package like i-Pro Viewer to view and record the video on a computer connected inside the mesh. In this case, you should specify the 7000-series port number for a given video source.

FROM THE LAN OR INTERNET

USING THE BROWSER TO VIEW VIDEO

Use of a browser to access one of the AgileMesh analog video ports is possible from the network connected to the LAN side of the AV3000. In this case, the port must be specified along with the LAN IP address of the AV3000. For browser-based access from the LAN side, you should use the 8000-series port number. For example, if the LAN address of the AV3000 is 192.168.1.57 (as determined by running the AVR Discover utility) and you wish to view video from node 1, camera 1, the address that would need to be entered into the browser would be `http://192.168.1.57:8052`.

Once more, it would be easier to just click on the “Admin” button underneath the thumbnail image on the AV3000 web page to achieve the same results.

USING A VIEWING PACKAGE

There are several different viewing packages that support the AgileMesh analog video ports. If possible, you should use the 9000-series port number when setting up a viewing package that is connected to the network on the LAN side of the AV3000. The 9000-series ports supply replicas of the video stream and multiple viewing locations do not cause an additional load on the wireless mesh network where bandwidth availability is critical. This functions well with the i-Pro Viewer software available from AgileMesh.

Other viewing packages may use different aspects of the video interface for accessing not only the video stream but for passing controls (such as Pan-Tilt-Zoom) commands across the interface. Depending on the mechanism being used by the third party package, pan-tilt-zoom may not work using this port number. If the pan-tilt-zoom functions are needed, you can use the 7000-series port numbers (at the potential expense of burdening the mesh network.)

ADVANCED CONFIGURATION OPTIONS

Included in the AV3000 embedded web server is an administration page that allows the user to set up some of the less commonly used options. Accessing this administration page requires knowing the IP address of the AV3000. The IP address of the AV3000 from the mesh side is 192.168.224.1. From the LAN side, the IP address may be determined by running the AVR Discover utility (described previously).

If the AV3000 IP address from the LAN side is 192.168.1.114, for example, the following must be entered into the URL section of the Internet Explorer browser:

`http://192.168.1.114/admin`

You will be prompted for a username and password. The default username and password pair is “agilemesh”/“agilemesh” (without the quotation marks). There are four sections to the resulting administration page, as described in the following.

“AMCAMPAGE” ADMIN SECTION

This section allows you to define some of the appearance parameters that govern the presentation of the main AV3000 web page. It looks like this:

The screenshot shows the 'AmCamPage Configuration' web interface. It contains several input fields and controls:

- CamFile:
- Live: Get the image from the camera.
- Reload Time: Seconds before page reloads.
- Pic Width: Camera image width in pixels.
- Pic Height: Camera image height in pixels.
- Banner Image: Banner image.
- Upload Image: Upload a banner image.
- Banner Width: Banner image width in pixels.
- Banner Height: Banner image height in pixels.
- Columns: Camera images per row.
- Rows: Rows per page.
- Time Threshold: Camera time threshold limit.

At the bottom right, there are three buttons: , , and .

“AMCAMPING” SECTION

The AmCamPing section (the upper right quadrant of the admin page) is where you define some of the network environment variables, the timing of the scans for new video devices and the username/password pairs required for directly accessing the web pages embedded in the AgileMesh analog video ports. It looks like this:

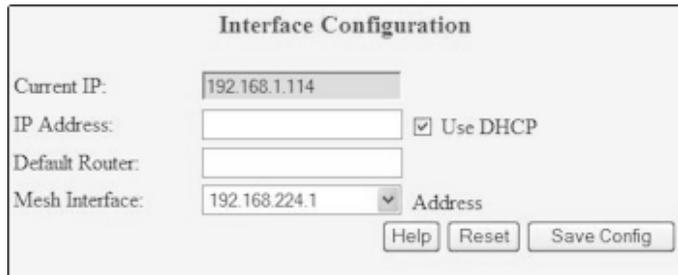
The screenshot shows the 'AmCamPing Configuration' web interface. It contains several input fields and controls:

- CamFile: Filename generated for AmCamPage.
- AgileMesh Net: Network address to monitor. (class C)
- MAC IDs:
- Login: NVS login name
- Password: NVS password
- Axis Login:
- Axis Password:
- Tooltip Info:
- Discovery Delay: Number of seconds between discover pings.

At the bottom right, there are four buttons: , , , and

INTERFACE CONFIGURATION SECTION

This section (the lower left quadrant of the admin page) allows you to define the addressing associated with the AV3000 itself. Here is where a static network address would be applied to the AV3000 LAN side if needed. It looks like this:



The screenshot shows the 'Interface Configuration' web page. It features several input fields: 'Current IP' with the value '192.168.1.114', 'IP Address' (empty), 'Default Router' (empty), and 'Mesh Interface' with a dropdown menu showing '192.168.224.1'. A checkbox labeled 'Use DHCP' is checked. At the bottom right, there are three buttons: 'Help', 'Reset', and 'Save Config'.

MISCELLANEOUS CONFIGURATIONS

This final section (the lower right quadrant of the admin page) is where various configuration parameters are entered, including definition of the username/password pair used for accessing the AV3000 embedded web pages. This is also where the date and time are set in the AV3000. When the AV3000 is active on a network, it keeps all of the AgileMesh analog video ports synchronized to the date and time used in the AV3000.



The screenshot shows the 'Misc. Configurations' web page. It contains a grid of buttons for various settings: 'DHCP Configure', 'DDNS Configure', 'Port Mapping', 'Upgrade AVR', 'Manage Config', 'Passwords', 'Date / Time', 'Video Multiplexer', 'Shutdown AVR', 'Reboot AVR', and 'Factory Defaults'.

CONNECTING OTHER NETWORK DEVICES TO THE MESH

The mesh network that forms the communications core of the AgileMesh system can also provide transport for network traffic from any number of other types of network devices. These devices may include additional computers or IP network cameras. If the AV3000 Network Bridge is also attached to the wireless mesh network, it will automatically assign network addresses to these devices (when they are connected to an AgileMesh node via an Ethernet cable) using its built-in DHCP (Dynamic Host Control Protocol) server. This is the same mechanism that is used on most LANs to assign IP addresses to computers when they're connected to a network.

Devices that have received a network address from the AV3000 on the AgileMesh network are also assigned automatically forwarded ports so that they can be accessed from the LAN network connected to the other side of the AV3000. As with the AgileMesh video ports, these default ports are 7xxx and 8xxx, where the "xxx" are the last three digits of the IP address that was assigned to the device. For example, if a network device capable of accepting a DHCP address is plugged into the Ethernet port of an AgileMesh node it will be assigned an IP address by the AV3000 (say, for example, 192.168.224.209), ports 7209 and 8209 will be assigned to it.

The default uses of the ports are the same as for AgileMesh analog video ports (i.e. 7xxx for a video stream and 8xxx for http access).

CONNECTING AN IP CAMERA TO THE MESH

If you connect an IP camera to the Ethernet port of one of the AgileMesh wireless nodes and the camera is set up to request a network address via DHCP, it will be assigned a network address as described above. Its embedded server will be accessible from the LAN side of the AV3000 through the ports that are automatically configured. So, if the LAN IP address of the AV3000 (probably also assigned by a DHCP server on the LAN) is, for example, 192.168.1.114, and the new IP camera is assigned address 192.168.224.210 by the AV3000, you should be able to access the embedded web server on the new IP camera from a location on the LAN by using `http://192.168.1.114:8210` in the URL field of a web browser (e.g., Internet Explorer).

Usually, the manufacturer of the IP camera provides a utility software package that can scan the network to determine what IP addresses have been assigned to cameras from that manufacturer.

Just like the AgileMesh IP video servers (embedded in AgileMesh nodes) that provide the analog video ports for external cameras, most IP video cameras use separate ports for providing video streams. It will probably be necessary to log into the new IP camera and make sure its video port number matches the one that is mapped for forwarding in the AV3000. Its internal http port number (i.e. the port number associated with its embedded web server interface) is assumed to be 80, the standard http port. So, for the above example, the ports in the new IP camera will need to be set to 80 for the http server (almost certainly the default) and 7210 for the video stream. You will need to consult the manufacturer's manual for that IP camera to determine the exact method for configuring the video port.

In summary, the general steps to connecting with and viewing a non-AgileMesh IP camera with a browser are as follows:

1. Power the IP camera and connect it to the Ethernet port on an AgileMesh wireless node.
2. Determine the IP address that has been assigned to the IP camera by running the appropriate manufacturer-supplied utility from a computer also attached to the mesh network.
3. From a computer on the LAN side of the AV3000, log into the embedded web server on the IP camera using the LAN address of the AV3000 (determined previously by having run the AVR Discover utility, described in an earlier section) and the port number 8xxx where xxx are the last 3 digits of the mesh IP address assigned to the IP camera.
4. Once you have logged into the embedded web server in the IP camera, configure the video port number to be 7xxx, save the configuration and exit.
5. Using the browser on the computer on the LAN, log back into the IP camera using the LAN IP address of the AV3000 and the appropriate 8xxx port number as the URL (e.g. `http://192.168.1.114:8210`).

STAND-ALONE NETWORK

AgileMesh video networks are designed to be stand-alone, rapidly deployable video surveillance solutions, as shown in the diagram below. In this configuration, the AV3000 would be useful to provide DHCP services to computers attached to the mesh, maintain video server clock synchronization, and provide a local web page where all of the AgileMesh video is accessible.

Self-Contained AgileMesh Network

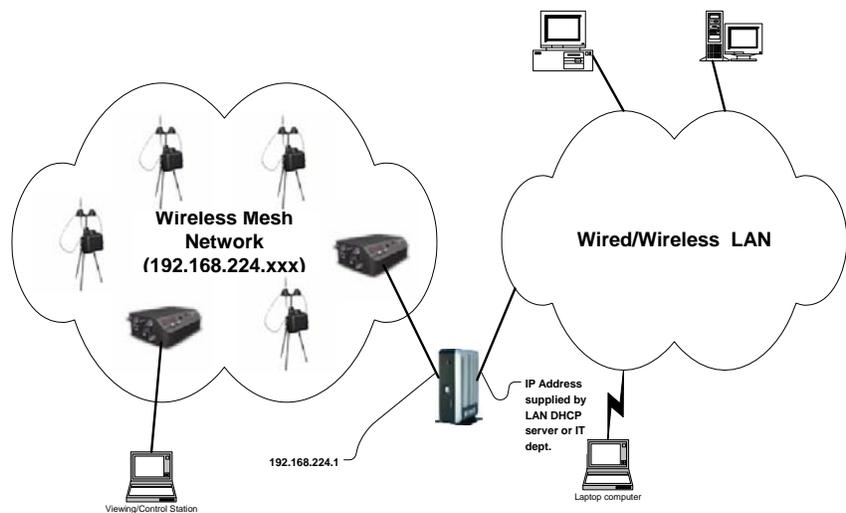


CONNECTION OF MESH NETWORK TO A LAN

Many AgileMesh system users require connections, or bridges, between their wireless video surveillance networks and their existing local area networks so that more people could access the video surveillance information.

AV3000 Bridging Video to a LAN

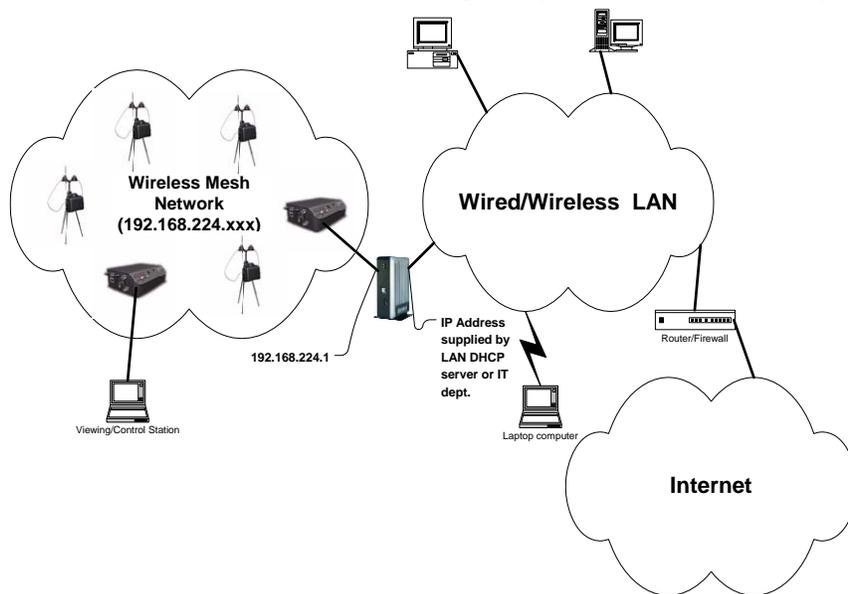
In this application, the AV3000 with its default settings can be connected as shown with no additional user configuration. From a DHCP server on the LAN (often handled by a router), the AgileMesh AV3000 will receive a LAN IP address and will automatically make the video sources connected into the AgileMesh wireless mesh network available to computers on the LAN.



CONNECTION TO INTERNET THROUGH A LAN

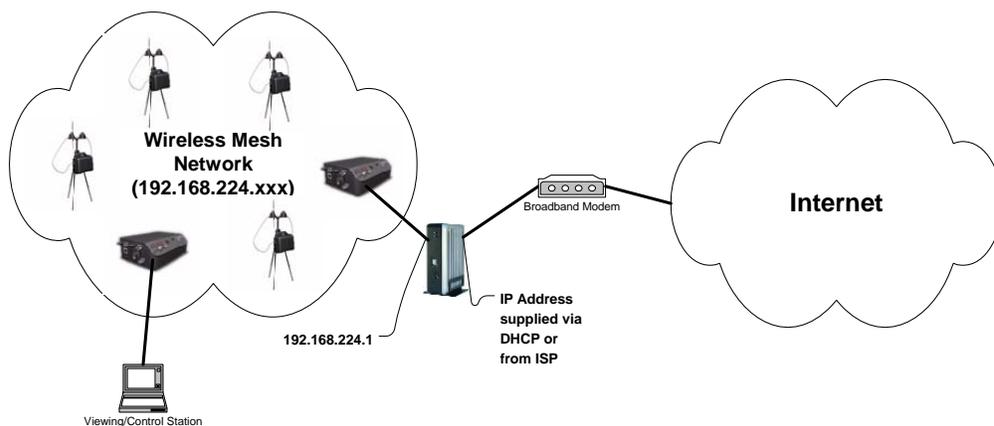
Many times, LAN's are connected to the Internet through a router. When connected as shown below, the AgileMesh video can be transported across the Internet to a central monitoring facility, if desired. If a third party router is involved (generally the case), the ports associated with the video coming through the AV3000 will need to be forwarded.

Connection to the Internet through a LAN



DIRECT CONNECTION TO INTERNET THROUGH A BROADBAND MODEM

In yet another connection variant, the AV3000 can be connected directly to a broadband modem (e.g. DSL or Cable Modem) to make the video available across the Internet to a remote monitoring location. If the broadband modem happens to include a router, it might be necessary to set up the AgileMesh ports to be forwarded. Otherwise, no setup at all would be required. In both of these cases, there should be no need to change the internal setup of the AV3000.



Direct Internet Connection via Broadband Modem

AV3000 Port Map

Node #	Camera 1			Camera 2		
	Video Stream Port #	Video Server Web Access Port #	Replicated Video Stream Port #	Video Stream Port #	Video Server Web Access Port #	Replicated Video Stream Port #
0	7049	8049	9049	7050	8050	9050
1	7052	8052	9052	7053	8053	9053
2	7055	8055	9055	7056	8056	9056
3	7058	8058	9058	7059	8059	9059
4	7061	8061	9061	7062	8062	9062
5	7064	8064	9064	7065	8065	9065
6	7067	8067	9067	7068	8068	9068
7	7070	8070	9070	7071	8071	9071
8	7073	8073	9073	7074	8074	9074
9	7076	8076	9076	7077	8077	9077
10	7079	8079	9079	7080	8080	9080
11	7082	8082	9082	7083	8083	9083
12	7085	8085	9085	7086	8086	9086
13	7088	8088	9088	7089	8089	9089
14	7091	8091	9091	7092	8092	9092
15	7094	8094	9094	7095	8095	9095
16	7097	8097	9097	7098	8098	9098
17	7100	8100	9100	7101	8101	9101
18	7103	8103	9103	7104	8104	9104
19	7106	8106	9106	7107	8107	9107
20	7109	8109	9109	7110	8110	9110
21	7112	8112	9112	7113	8113	9113
22	7115	8115	9115	7116	8116	9116
23	7118	8118	9118	7119	8119	9119
24	7121	8121	9121	7122	8122	9122
25	7124	8124	9124	7125	8125	9125
26	7127	8127	9127	7128	8128	9128
27	7130	8130	9130	7131	8131	9131
28	7133	8133	9133	7134	8134	9134
29	7136	8136	9136	7137	8137	9137
30	7139	8139	9139	7140	8140	9140
31	7142	8142	9142	7143	8143	9143
32	7145	8145	9145	7146	8146	9146

Support Options

AgileMesh Technical Support

Software support is available free of charge for 90 days after the original date of purchase. For AgileMesh Technical Support, call 1-972-231-2122 or find AgileMesh on the Web at <http://www.agilemesh.com>.

Operating System Online Support

AgileMesh applications support Microsoft® Windows® 2000, Microsoft® Windows® XP and Microsoft® Windows® Vista. For operating system support, you can access Microsoft® customer support at: <http://support.microsoft.com/directory/>.

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