

G-Series PoE Quick Start Guide

Product overview

The exacqVision G-Series Power over Ethernet (PoE) systems are part of exacqVision's series of network video recorders (NVR). Depending on the model, the G-Series PoE has 4, 8, or 16 PoE camera ports. The exacqVision G-Series PoE is an easy-to-use video recording solution, offering the full sophistication of exacqVision VMS on an purpose built NVR, without the hassle of wiring cameras to a power supply.

Installation

Before you turn on the exacqVision G-Series PoE server, ensure that the installation environment meets the following requirements:

Mounting and operating requirements

- Mount the exacqVision server in a dust-free, and climate controlled location, where the temperature is between 32°F to 113°F (0° C to 40°C), and the humidity level is less than 95% non-condensing.
- ▲ **CAUTION:** Dust may cause components of the server to overheat, and elevated temperatures can contribute to premature hard drive failures.
- If the hard drives dispatch separately to the system, insert each drive into the hard drive slots. If the drives are numbered, ensure that you insert the correct drive into the appropriate slot.
- The server must connect permanently to the ground wire. Ensure that you use an 18 AWG wire or larger to make the connection, and that you connect the grounding screw to the ground port on the back panel. See Figure 1. Ensure this connection is made by a skilled individual.

Electrical requirements

- Do not replace NVR batteries. There is a risk of explosion if the battery is replaced with an incorrect battery.
- Do not use this NVR in locations where children are likely to be present.
- Installation of the socket-outlet protective earthing connection must be carried out by a skilled person (yellow/Green wire min. 18AWG).




- For maximum reliability, connect the exacqVision server to an online uninterruptured power supply (UPS). An online UPS, filters power surges and dips that can damage the server.
- Connect a keyboard, a monitor, and a mouse to the server.
- Connect the exacqVision server network interface cards (NIC) to the appropriate network switch ports.
- Use cables with a ferrite core for connecting to monitors. If the cable does not have a ferrite core, the unit performs as expected, but may not meet CE safety regulation standards.

Initial startup

When you start the exacqVision G-Series server for the first time, create a user name and password for the operating system, then create a root user name and password for the Enterprise Manager.

1. Turn on the exacqVision server.
2. Create a user name and password for the operating system when the logon dialog box appears. Configure operating system settings as required.

3. If prompted, log back on to the operating system with the user name and password you just created.
4. When you log back on, an exacqVision dialog box appears on the desktop. Create the exacqVision admin user name and password.

 **Note:** This is not the same as the credentials you created to log on to the operating system. Use these credentials to log on to the exacqVision Server.


Configuring the server network

To configure the exacqVision G-Series PoE server network, complete the following steps:

1. Start the exacqVision client and click **Config (Setup) page** on the toolbar.
2. From the navigation tree, expand the exacqVision server.
3. Select **Configure System**, and then click the **Network** tab.
4. In the **Network** window, complete one of the following options:
 - If the network uses static IP addressing, select **Static** and enter the servers IP address.
 - If the network uses Dynamic Host Configuration Protocol (DHCP), select **Dynamic**. If the system does not automatically configure, contact your network administrator.
5. Click **Apply**.
What to do next: Repeat this procedure for any additional network ports. For more information on configuring the server, refer to the exacqVision Start User Manual.

Configuring the client

Before you begin: If you are configuring the server from a remote client computer, you must download and install exacqVision client version 7.4 or later.

1. Start the exacqVision client application.
 2. When the local client is launched for the first time, enter the exacqVision user name and password created during initial startup
 3. Verify that the server appears in the **Systems** list with a status showing **Connected**.
-  **Note:** If the server does not connect, but you can confirm the server's ability to connect, check for antivirus software on the remote client machine that may block the communication between the server IP addresses and ports.
4. Change the default operating system administration and user accounts. For more information, refer to the *exacqVision User Manual*, and <https://www.exacq.com/kb>.

Connecting cameras with EasyConnect

The EasyConnect feature automatically discovers, and configures most DHCP cameras.

Before you begin:
Before you use the PoE ports, review the following information:

- Each port has a unique interface, and is not a network switch or hub.
- Each port can connect to one IP camera only.
- Each port provides a DHCP addressing service to connect cameras.
- Each port has an assigned IP address with a subset mask of 255.255.255.0. For example, 192.168.2.1, or 172.16.5.61, or 10.16.2.21. The system administrator can modify the third and fourth octet to assign a local address to a device.

To connect cameras to the system, complete the following steps:

1. Ensure that the cameras are in their factory default states.

Table2: G-Series PoE System 4, 8, and 16 back panel port configurations

Item	Component	No. of ports	Description
7	10/100/1000 Ethernet	1	Dual on board NIC port.
8	10/100/1000 Ethernet	1	Dual on board NIC port.
9	10/100 PoE camera port	4, 8, or 16	Four, eight, or sixteen ports to connect IP PoE cameras. The number of ports depends on the model.

Connections

For information on the exacqVision G-Series PoE server’s back panel, depending on the model, see Figure 1, or Figure 2. Table 2 describes the connections for both configurations.

Figure 1: Back panel connectors 4 Port G-Series PoE

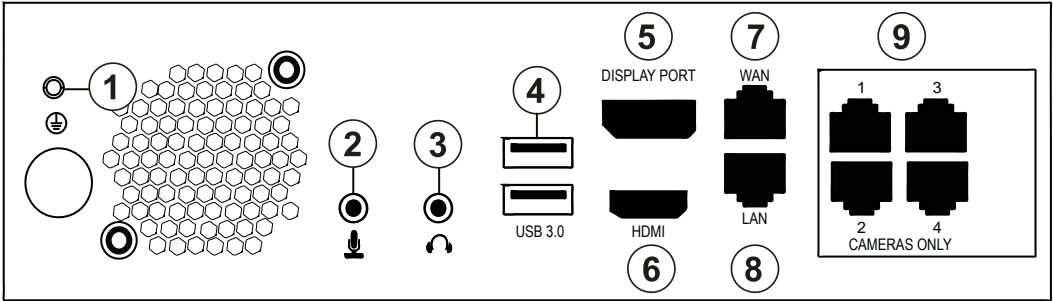


Figure 2: Back panel connectors 8 Port G-Series PoE

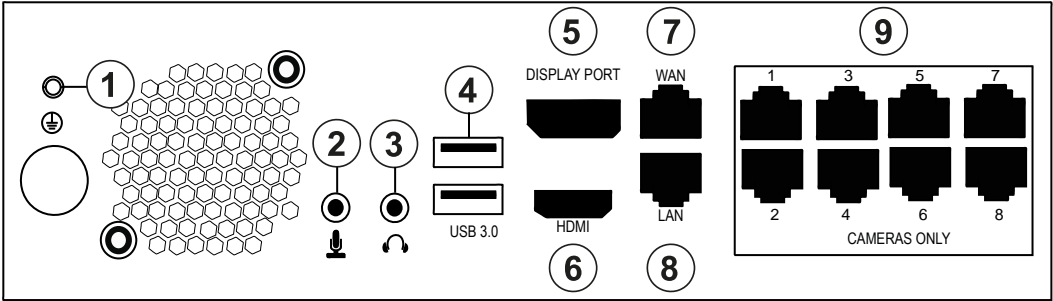
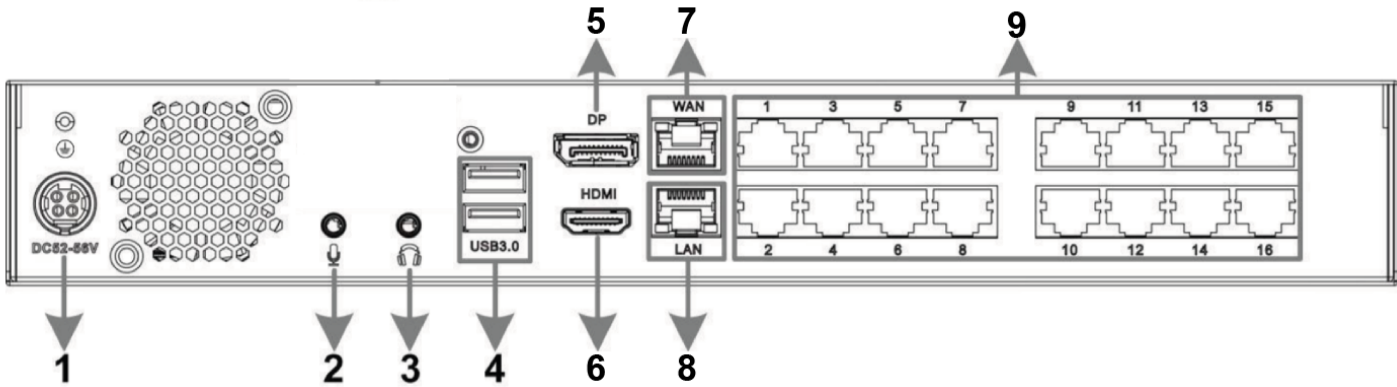


Figure 3: Back panel connectors 16 Port G-Series PoE



WARNING: Do not connect switches, routers, computers, printers, encoders, or non-camera device to the PoE camera ports.

Table2: G-Series PoE System 4, 8, and 16 back panel port configurations

Item	Component	No. of ports	Description
1	Grounding screw	1	Used for grounding the NVR.
2	Audio in	1	Port to connect a microphone.
3	Audio out	1	Port to connect a speaker or other audio output device.
4	USB 3.0	2	Port to connect a USB keyboard, mouse, memory device, or DVD burner.
5	Video out	1	Display port.
6	Video out	1	HDMI port.

2. Start the exacqVision client, and click **Config (Setup)** page on the toolbar.
3. From the navigation tree, expand the server and then select the **Configure System** node.
4. Expand **Add IP Cameras**, and then select **PoE Ports**.
5. On the back panel of the server, plug the cameras into the PoE ports.
6. Monitor the **PoE Ports** window to ensure that the cameras configure and connect. The connection may take up to six minutes. The **PoE Ports** window shows a graphical representation of the back panel. The icons show the status of the ports. See Table 1.

Result
Table1: Port Status

Port status	Description
Grey	The camera is not connected to the port.
Orange	The camera discovery and configuration is continuing.
Green	The camera is connected and streaming.
Red	There are errors with the camera. Possible problems include an invalid username or password. See Troubleshooting for details.

Troubleshooting

Use the status column in the **PoE Ports** window to identify and resolve the problem. Place the cursor over the status message to view suggestions on how to resolve the issue.

The following sections contain information about the status message and possible solutions.

Status: Camera connection unsuccessful

Problem

When an EasyConnect camera connects to the system, the status column in the **PoE Ports** window does not display **Connected**.

Solution

To delete and reconnect a camera, complete the following steps:

- 1. Open the **Add IP Cameras** window.
- 2. Select the camera that you want to delete, and then click **Delete**.
- 3. Click **Rescan Network** to reconnect the camera.

Status: Invalid username or password

Problem

The camera's default credentials have changed.

Solution

Complete one of the following steps:

- Press the **Factory Reset** button on the camera, to restore the camera's default settings.
- Open the **Add IP Cameras** window and add the camera using the new credentials. For more information, refer to the *exacqVision Start User Manual*.
- Use an administration account and open the browser (Firefox). Navigate to the camera's web page and reset the camera's credentials to its default values.

Status: Manual intervention required

Problem

Either the camera has no default credentials, DHCP is not enabled on the camera, or both.

Solution

Complete one of the following steps:

- Try factory resetting the camera, to restore the cameras default settings. In some cases, this can make the camera discoverable.
- After factory resetting the camera, plug it into one of the PoE ports. Start the exacqVision client and complete the following steps:
 - a. Expand the server, select **Configure System**, and then click the **Network** tab.
 - b. Select the **Show individual PoE adapters** check box, and then select the PoE adapter port to which the camera has been plugged in.
 - c. In the **Network Configuration** pane, note the original **IP Address** and subnet mask, as you will require this information in the last step.
 - d. Change the **IP Address** to an IP address in the same subnet as the camera's IP address, and click **Apply**.
 - e. Open the browser (Firefox). Navigate to the camera's web page and change the camera's IP address to a DHCP address.
 - f. Change the PoE port IP address back to its original IP address.

Status: No camera detected

Problem

The camera may not be supported.

Solution

Complete one of the following steps:

- Ensure that the camera is on the supported camera list. See: <https://exacq.com/integration/ipcams>.
- Unplug the camera and then reconnect the camera into the port.
- Open the **Add IP Cameras** window, and click **Rescan Network**.

Status: Not Present

Problem

No device is connected, or there is a problem with the power supply.

Solution

Delete and reconnect the cameras to the system. See [Camera connection unsuccessful](#).