

X-Series NVR Quick Start Guide

Introduction

The exacqVision X-Series is part of exacqVision's series of network video recorders (NVR). The exacqVision X-Series NVR provides high-performance hardware with exacqVision surveillance video management software (VMS).

Installation requirements

The X-Series NVR is mountable in a 19 in. (482.6 mm) wide server rack mount system. Before you install the NVR, ensure that you meet the following requirements.

Mounting, grounding, and operating environment requirements

- Mount the exacqVision server in a dust-free and climate-controlled location where the temperature is between 40°F to 95°F (4.5°C to 35°C), and the humidity level is less than 80% non-condensing.
- If the hard drives dispatch separately to the system, insert each drive into the appropriate hard drive slot in numerical order.
- Ensure that a qualified technician connects the server permanently to the ground wire. Use an 18 AWG wire or larger to make the connection, and label the grounding screw near the power connector with the following image:

Figure 1: Grounding wire



Note: Dust can cause components of the server to overheat, and elevated temperatures can contribute to premature hard drive failures.

Rail information

The X-Series NVR supports both sliding rails and static rails. Both rails have a slim design that supports easy installation. You can use sliding rails to fully extend the system from the rack for service.

Electrical environment requirements

- For maximum reliability, connect the exacqVision server to an inline UPS. An inline UPS filters power surges and dips that can damage the server.
- Connect a mouse and keyboard to the server.
- Connect the exacqVision server network interface cards (NIC) to the appropriate network switch ports.
- Ensure that a qualified person replaces the battery.

Network connection requirements

- If the video surveillance system does not have a physically isolated network, connect all IP cameras and one server NIC to a dedicated camera VLAN or dedicated physical camera network. For information on suggested configurations, see <https://support.exacq.com/#/knowledge-base/article/868>
- Install the camera manufacturer's software on a PC in this subnet or configure the router to connect a client computer in the camera subnet. For information on how to configure the network, see [Configuring the server](#).

Note: A configuration that isolates the camera traffic reduces the chances of other network traffic conflicts and unauthorized access to cameras.

Starting the server

About this task:

When you start the exacqVision server for the first time, you must create an operating system user name and password, then create an exacqVision user name and password.

1. Turn on the exacqVision server.
2. When the **Log on** dialog box appears, create a user name and password for the operating system.
3. Configure the operating system settings as required.
4. If prompted, log on to the operating system again with the operating system user name and password that you just created.
5. When you log on, an exacqVision dialog box appears on the desktop. Create the exacqVision user name and password.

Note: The credentials in step 5 are not the same as the credentials you created to log on to the operating system. Use these credentials to log on to the Exacq Server.

Configuring the server

1. Open the Exacq client.
2. From the navigation tree, click **Configure System > Network**.
3. In the **Network** tab, choose one of the following options:
 - To install the server on a network that uses static IP addressing, click **Static** and enter the IP address.
 - To install the server on a network using dynamic host configuration protocol (DHCP), click **Dynamic**. If the information does not configure automatically, contact your network administrator.
4. Click **Apply**.
5. Repeat this procedure for any additional network ports. For more information about configuring the server, see <https://exacq.com/support/manspecs/>.

Setting up remote access to the server

About this task:

You can configure the server through a remote exacqVision client.

1. Download the latest exacqVision Client software from the Exacq website at: <https://www.exacq.com/support/downloads.php>.
2. Install the client software on a system administrator computer.
3. Use the ping command and the server's IP address to confirm connectivity. If the client PC cannot communicate with the server, contact your network administrator.

Remote access for administrative support

For administrative support to access to the server remotely, configure remote desktop for Windows, or SSH for Linux depending on the computer operating system. For more information, refer to the following Exacq Knowledge Base articles:

- *Using remote desktop to manage Windows-based exacqVision servers:* <https://support.exacq.com/#/knowledge-base/article/579>
- *Enabling/Disabling SSH on exacqVision Linux Server:* <https://support.exacq.com/#/knowledge-base/article/7498>

Configuring the client

1. Start the Exacq client application.
2. When the local client is launched for the first time, enter the Exacq user name and password you created during initial startup.
3. Verify that the server appears in the **Systems** list and displays a **Connected** status.

Note: If the server does not connect to the client, check the remote client machine for antivirus software that can block communication between the server IP addresses and ports.

Connecting the cameras

About this task:

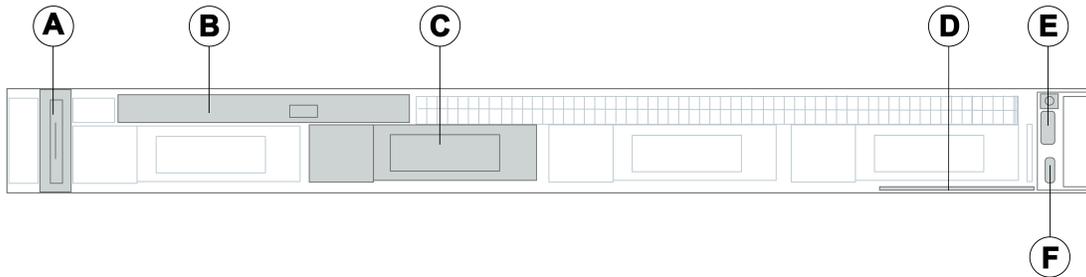
To determine the compatibility of a particular camera model and firmware combination with exacqVision servers, use the following link: <http://www.exacq.com/support/ipcams.php>

1. Use the camera manufacturer's software to configure the IP addresses for each camera, and record this information for future reference.

- ① **Note:** Do not change the user name and password until after you establish connectivity with the exacqVision server. For additional information, see the camera manufacturer's website or the *exacqVision IP Camera Quick Start Guide* at <http://www.exacq.com/downloads/ev-ip-quickstart-0311.pdf>. You can also find the Quick Start Guide in the Quickstarts directory on the CD that Exacq dispatches with your system.
2. To test the connectivity between the camera and the server, complete the following steps:
 - a. Log on to the operating system as an administrator.
 - b. Type the camera's IP address into the address bar of your internet browser.
 - c. Press **Enter**. If the browser does not display an introductory or logon window, the camera is not connected to the server. Check the *exacqVision User Manual*, and <https://support.exacq.com> for a solution if the problem persists.
 3. Repeat this process for all other camera connections.

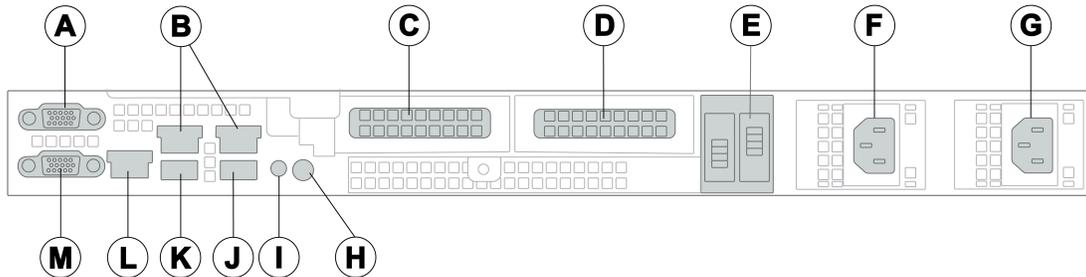
Connections

Figure 2: 1U front panel



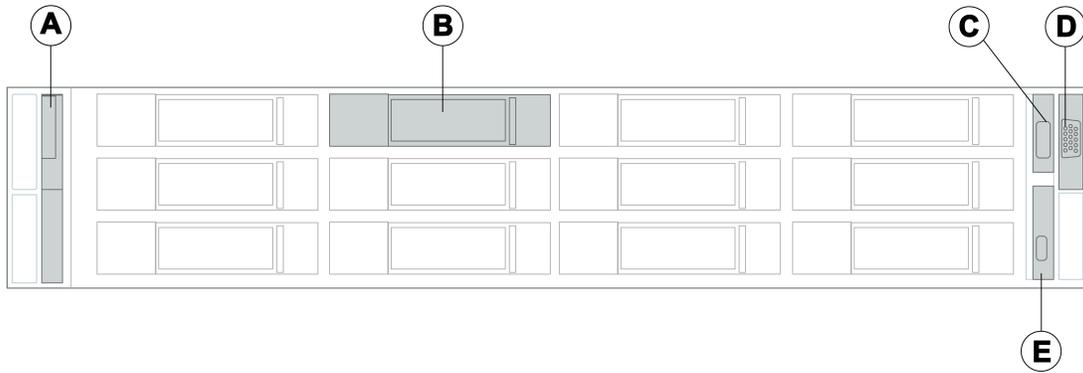
Callout	Description	Callout	Description
A	Left control panel	D	Information tag
B	ODD	E	Right control panel
C	Drive	F	iDRAC direct micro port

Figure 3: 1U back panel



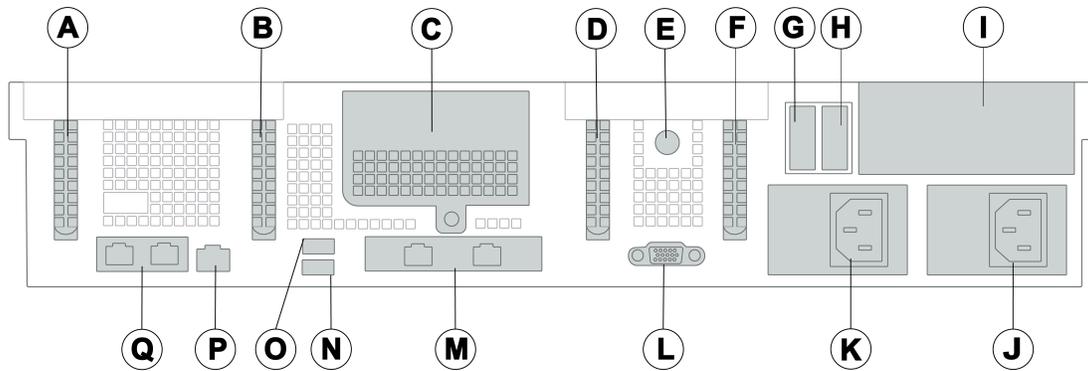
Callout	Description	Callout	Description
A	Serial connector	H	System ID button
B	Ethernet ports	I	CMA jack
C	PCIe expansion card slot 1	J	USB 3.2 Gen 1 port
D	PCIe expansion card slot 2	K	USB 2.0 port
E	BOSS riser slots	L	iDRAC Ethernet port
F	Power supply unit (PSU 1)	M	VGA port
G	Power supply unit (PSU 2)		

Figure 4: 2U front panel



Callout	Description	Callout	Description
A	Left control panel	D	Right control panel
B	Drive	E	iDRAC direct micro port
C	USB port		

Figure 5: 2U back panel



Callout	Description	Callout	Description
A	PCIe expansion card slot	J	Power supply unit 2
B	PCIe expansion card slot	K	Power supply unit 1
C	Expansion slot	L	VGA port
D	PCIe expansion card slot	M	2 x OCP 10 Gbps ports
E	System ID	N	USB port
F	PCIe expansion card slot	O	USB port
G	BOSS riser slot	P	iDRAC Ethernet port
H	BOSS riser slot	Q	2 x 1 Gbps ports
I	Expansion slot		