

EV 4UA Hybrid Series H410/X1313 Quick Start Guide

Introduction

The exacqVision EV-Series is part of exacqVision’s series of network video recorders (NVR). The exacqVision EV Series 4U NVR provides high-performance hardware with an exacqVision surveillance video management software.

Installation

Before you start the exacqVision server, ensure that you adhere to the following requirements:

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.
- Only a skilled person must install the socket-outlet protective earthing connection. Use a green-yellow wire minimum 18 AWG.

Figure 1: Socket-outlet protective earthing connection



Mounting 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.
 - ⓘ **Note:** Dust can 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 appropriate hard drive slot, if they are numbered.
- You can place a surge suppressor between the camera and the recorder of all outdoor cameras.
- The server must connect permanently to the ground wire. Ensure this connection is made by a skilled individual. 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 2: Grounding wire



Electrical environment requirements

- For maximum reliability, connect the exacqVision server to an online UPS. An online 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.
- Battery is replaceable by a skilled person.


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 (virtual LAN).
- Install the camera manufacturer's software on a PC in this subnet, or configure the router to connect a client computer with the camera subnet. For information on how to configure the network, see [Configuring the server](#).

This VLAN configuration reduces the chances of network traffic conflicts and unauthorized access to the cameras.

Initial startup

When you start the exacqVision 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 log on dialog box appears. Configure operating system settings as required.
3. If prompted, log on again to the operating system with the user name and password you just created.
4. When you log on, an exacqVision dialog box appears on the desktop. Create the exacqVision admin user name and password.
 **Note:** These are 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

1. Turn on the server.
2. Open the exacqVision client application.
3. From the navigation tree, select **System Setup**, and select the **Network** tab.
4. Choose one of the following options:
 - To install the server on a network that uses static IP addressing, select **Static** and enter the IP address.
 - To install the server on a network using DHCP (dynamic host configuration protocol), select **Dynamic**. If the information does not configure automatically, contact your network administrator.
5. Click **Apply**.
6. Repeat this procedure for any additional network ports. For more information about configuring the server, refer to the *exacqVision Start User Manual*.

Setting up remote access to the server

How to 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. Confirm the connectivity with the server using the ping command and the server's IP address. If the client PC can not 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 (Windows) or SSH (Linux) on your computer. For more information, see the following Exacq Knowledge Base articles:

- Using remote desktop to manage Windows-based exacqVision servers: <https://www.exacq.com/kb/?kbid=61687>
- Using Secure Shell (SSH) to manage Linux-based exacqVision servers: <https://www.exacq.com/kb/?kbid=6186>

Configuring the client

1. Start the exacqVision client application.
2. Click the **Config (Setup) page** icon.
3. From the navigation tree, select **Add Systems**.
4. In the **System List** select the server.

5. In the **System Information** area, type the exacqVision user name and password that you created during initial start up.
6. Select the **Connection Speed**.
Choose from the following options, **Remote, WAN, LAN** or **Local**.
7. Verify that the server appears in the **Systems** list with a status showing **Connected**.
 - ⓘ **Note:** If the server does not connect to the client, check for antivirus software on the remote client machine that may block the communication between the server IP addresses and ports.
8. Click **Apply**.

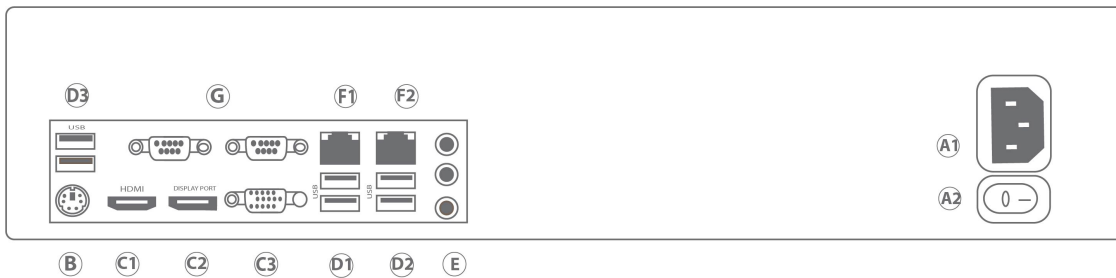
Connecting the cameras

1. Connect the analog cameras, PTZ serial cables, or alarm I/O. For more information, see *Connections*.
 - ⓘ **Note:** Connections vary by model.
2. Using the camera manufacturer’s software, configure the IP address for all the cameras, and record this information for future reference.
 - ⓘ **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.
3. 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>
4. Test the connectivity between the camera and the server by completing the following steps:
 - a. Log off from the operating system user account.
 - b. Type the camera’s IP address into the address bar on your Internet browser.
 - c. Press **Enter**. If the browser does not display an introductory or log on window, the camera is not establishing a connection with the server. Check the *exacqVision User Manual*, and www.exacq.com/kb for a solution if the problem persists.
5. Repeat this process for all other camera connections.

Connections

For information on the EV-Series server’s back panel for a hybrid system, see the following figure and table.

Figure 3: EV-Series hybrid system back panel



Callout	Name	No. of Ports	Description
A	Power	1	100-240VAC 50/60Hz. Power port (A1) and power switch (A2).
B	PS/2 connector	1	PS/2 port.
C	Video out	3	HDMI Port (C1) Display Port (C2), VGA (C3) . You can use a maximum of three video outputs simultaneously.
D	USB3.0/3.1	6	USB keyboard, mouse, memory device, or DVD burner. USB 3.1 (D1 and D3) and USB 3.0 (D2).
E	Audio in/out	3	Line in (blue), line out (green), microphone (pink).
F	10/100/1000 Ethernet	2	Dual onboard NICs, 2.5 Gbps (blue), (F1) and 1Gps (black), (F2).
G	Serial ports	2	Serial port

- ⓘ **Note:** Activate the power button on the front of the system to provide power to the system.

Auxiliary connections

Figure 4: EV-Series hybrid system auxiliary connections

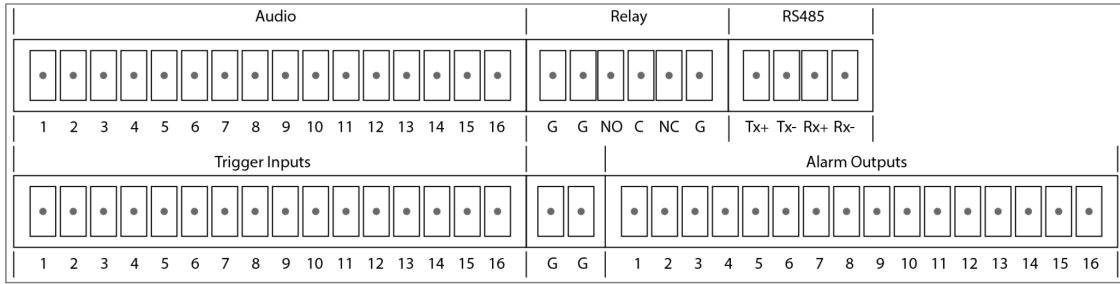


Table1: EV-Series hybrid system auxiliary connections

Audio Block Connections	
1-16	Line level audio in 1-16
Relay Block Connections	
G	Common for all inputs
NO	Normally open relay output #1 (24V/1A max)
C	Relay common
NC	Normally closed relay output #2 (24V/1A max)
G	Common for all inputs
RS-485 Block Connections	
Tx+	PTZ control
Tx-	PTZ control
Rx+	PTZ control
Rx-	PTZ control
Trigger Inputs/Alarm Outputs Blocks	
1-16	Trigger inputs 1-16
G	Common for all inputs
1-16	Alarm outputs 1-16