

A-Series 2UA/F2A Hybrid Quick Start Guide

Introduction

The exacqVision A-Series is part of exacqVision's series of network video recorders (NVR). The exacqVision A-Series Hybrid, 2UA and F2A provide high performance hardware with an exacqVision surveillance video management software. The F2A hybrid model is a rack mounted system and features greater storage capacity and an optional RAID 5 disk configuration.

Installation

Before turning on the exacqVision A-Series server, ensure that you meet the following requirements:

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.
 - ① **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.
- 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 label the grounding screw near the power connector with the image in Figure 1. Ensure this connection is made by a skilled individual.

Figure 1: 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.
- Use cables with ferrite core for connecting to monitors. If the cable does not have a ferrite core, the unit still performs as expected but may not meet CE safety regulation standards.

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.
- 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.

Configuration

After you turn on the exacqVision server, you must log on to the administration account with administrator credentials.

Enter the following credentials depending on the platform:

Linux

Enter the username `Administrator` and the password `admin256`.

Windows

Follow the instructions to configure certain settings such as the time zone and language. Enter a new administrator's password when prompted. The password must contain a minimum of 8 characters, use a combination of numbers and uppercase letters. It is important to remember the password.

Configuring the server

To configure the exacqVision server, complete the following steps:

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:
 - If you install the server on a network that uses static IP addressing, select **Static** and enter the IP address.
 - If you install the server on a network using DHCP, select **Dynamic**. If the information 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*.

Setting up remote access to the servers

To configure the server through a remote exacqVision client, complete the following steps:

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, refer to 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

To configure the exacqVision client, complete the following steps:

1. Start the exacqVision client application.
2. Click the **Config (Setup) page** icon.
3. From the navigation tree, select **Add Systems**.
4. In the **Add Systems** window, click **New**, and enter the IP address or hostname of the exacqVision server.
5. Enter the following username and password:
Username:admin
Password:admin256
6. Select a connection speed.
7. Click **Apply**.
8. 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 anti-virus software on the remote client machine that may block the communication between the server IP addresses and ports.
9. Change the default operating system administration and user accounts. For more information, see the *exacqVision User Manual*, and www.exacq.com/kb.

Camera connections

About this task:

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

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 username 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 may 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. Depending on whether you use Linux or Windows operating system, complete one of the following steps:
 - For Linux, enter the username `Administrator` and the password `admin256`.
 - For Windows, enter the administrator's username and password created during the initial startup of the server.
 - 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 logon 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.

What to do next:

Repeat steps one to four for all other camera connections.

Connections

For information on the A-Series server's back panel, depending on the system ordered, see configuration A (Figure 2), or configuration B (Figure 3). Table 1 describes the connections for both configurations

Figure 2: A-Series Hybrid 2UA and F2A System back panel configuration A

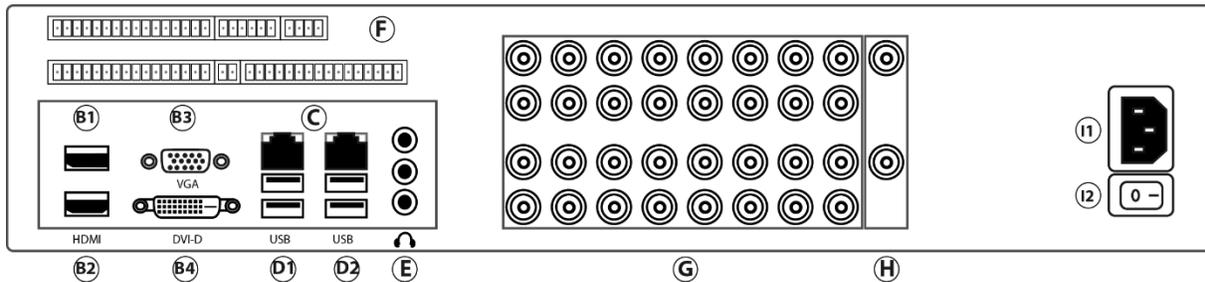
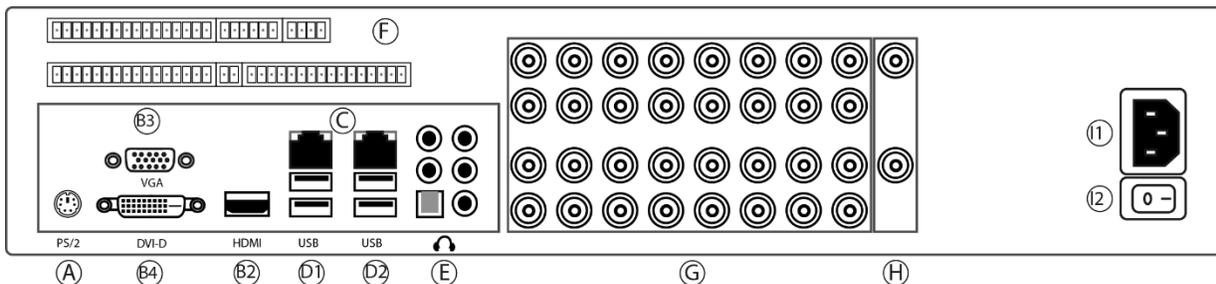


Figure 3: A-Series Hybrid 2UA and F2A System back panel configuration B



Auxiliary Connections

Figure 4: A-Series hybrid system auxiliary connections

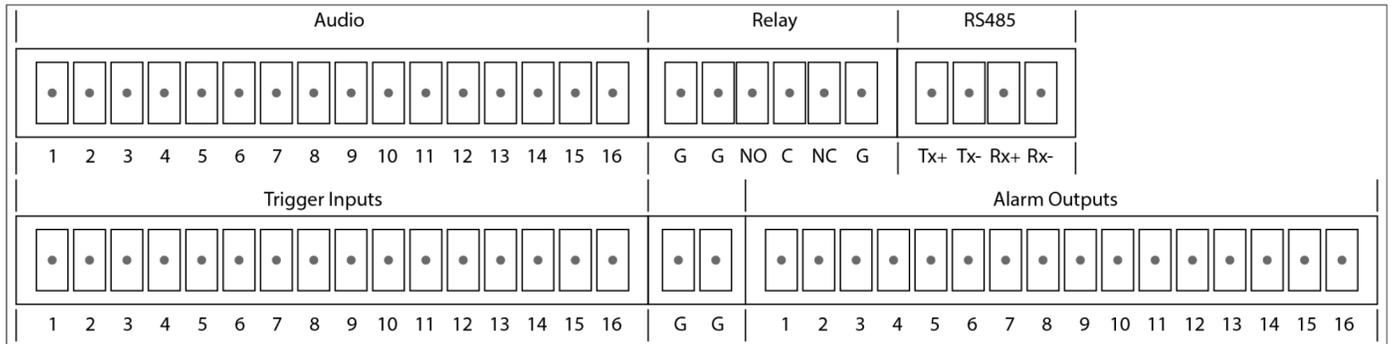


Table1: A-Series hybrid system auxiliary connections

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