exacq F2A IP-Series IP Camera Servers and Hybrid Servers User Guide

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EV 2UA, F2A IP-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, IPS 2UA and F2A provide high performance hardware with an exacqVision surveillance video management software. The F2A IP model features greater storage capacity, an optional RAID 5 disk configuration, greater video storage rate, greater number of hard drives, and a wider range of operating systems.

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 (uninterrupted power supply). 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.
- Ensure that only a skilled person replaces the battery.

- Use cables with a ferrite core to connect to monitors. If the cables do 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 (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 .

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. Log on to the exacqVision server with an administration account.
2. Follow the instructions to configure settings such as the time zone and language.
3. When prompted, change the administrator password. The password must contain a minimum of 8 characters, use a combination of numbers and uppercase letters. It is important to remember the password for future use.

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.**

Setting up remote access to the server

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 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://www.exacq.com/kb/?kbid=6186**

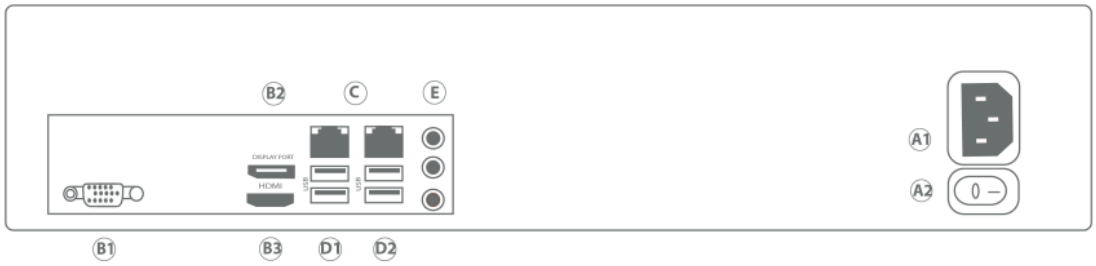
Connecting the cameras

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

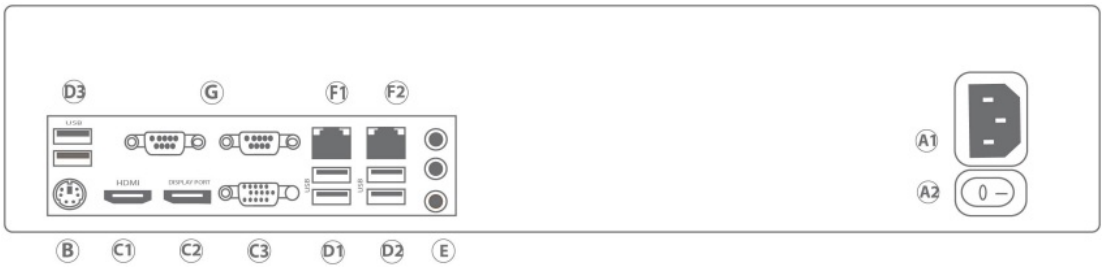
For information on the EV-Series server's back panel, see the following images and tables. Configurations vary depending on the system.

Figure 3: Configuration A: EV-Series IPS 2UA and F2A System back panel



Call out	Name	No. of ports	Description
A	Power	1	100-240VAC 50/60Hz. Power port (A1) and power switch (A2).
B	Video out	3	VGA (B1), Display port (B2), and HDMI (B3). Use a maximum of three video outputs simultaneously.
C	10/100/1000 Ethernet	2	Dual onboard NICs, 2.5Gbps (blue) and 1Gbps (black).
D	USB 3.0/3.1	4	USB, keyboard, mouse, memory device, or DVD burner. USB 3.0 (D1) and USB 3.1 (D2).
E	Audio in/out	3-5	Line in (blue), line out (green), microphone (pink).

Figure 4: Configuration B: EV-Series IPS 2UA and F2A System back panel



The following table describes the ports for configuration B back panel ports.

Call out	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 thr ee video outputs simultaneously.
D	USB 3.0/3.1	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

Documents / Resources

	exacq F2A IP-Series IP Camera Servers and Hybrid Servers [pdf] User Guide F2A IP-Series IP Camera Servers and Hybrid Servers, F2A IP-Series, IP Camera Servers and Hybrid Servers, IP Camera Servers, Camera Servers, Servers

References

- exacq.com/kb
- Exacq Technologies | IP Security Solutions, IP Camera Integrations
- support.exacq.com/#/knowledge-base/article/579
- support.exacq.com/#/knowledge-base/article/7498
- exacq.com/kb/?kbid=6186
- Software Downloads | Exacq from Tyco Security Products