The following table describes the ports for both the A-Series Hybrid and IPS Desktop server:

**Table 1: A-Series Hybrid and IPS Desktop back panel connections and ports**

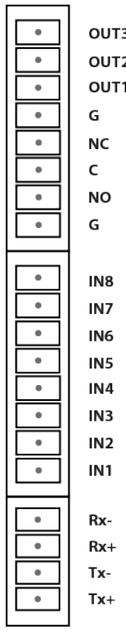
| | Name | No. of Ports | Description |
|---|---|---|---|
| A | Power | 1 | 100-240VAC 50/60Hz. Power port (A1) and power switch (A2). |
| B | Video out | 4 | DisplayPort (B1), HDMI (B2), VGA (B3), and DVI-D (B4).<br>You can use a maximum of two video outputs simultaneously. |
| C | 10/100/1000 Ethernet | 2 | Dual on-board NICs. |
| D | USB 2.0/3.0 | 4 | USB keyboard, mouse, memory device, or DVD burner; USB 2.0 (E1) and USB 3.0 (E2). |
| E | Audio in/out | 3 | Line in (blue); line out (green); microphone (pink). |
| *F | Video and Audio In | 32 | No looping with 8 channel, 16 channel, and 32 channel. |
| *G | Auxiliary Connections | | For more information, see **Figure 4**. |
| *H | RS-232 | | POS, ATM, and access control integration, not shown in figure 2. |

*Applies to A-Series Hybrid Desktop only.

**Note**: You can install auxiliary or RS-232 connections but you cannot install both on the same system.

## Auxiliary Connections

The following figure and table show the auxiliary connections for the A-Series Hybrid Desktop server:




| Alarm Output Blocks/Relay Block Connections | |
|---|---|
| 1 - 3 | Alarm outputs 1 - 3 |
| G | Ground |
| NC | Normally closed relay output #2 (24V/1A max) |
| C | Relay common |
| NO | Normally open relay output #1 (24V/1A max) |
| G | Common for all inputs |

| Trigger input Connections | |
|---|---|
| 1 - 8 | Trigger inputs 1- 8 |

| RS-485 Block Connections | |
|---|---|
| Tx+ | PTZ control |
| Tx- | PTZ control |
| Rx+ | PTZ control |
| Rx- | PTZ control |

**Figure 4: Auxiliary connections**

February 2020, Rev C

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exacqVision A-Series Hybrid/IPS Desktop Quick Start Guide

# Introduction

The exacqVision A-Series desktop is part of exacqVision's series of network video recorders (NVR). The A-Series Hybrid Desktop and IPS Desktop, provide high performance hardware with an exacqVision surveillance video management software.

# Installation

Before turning on the exacqVision A-Series Desktop 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 less than 70°F (21°C), and the humidity level is less than 80% non-condensing.

  **Caution**: 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.
- If you use an outdoor camera, 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**.

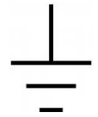

**Figure 1. Grounding wire**

### *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, monitor, and keyboard to the server.
- Connect the exacqVision server network interface cards (NIC) to the appropriate network switch ports.
- It is recommend to 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.
- This VLAN configuration reduces the chances of network traffic conflicts and unauthorized access to the cameras.

# Initial startup

When you start the exacqVision A-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

To configure the exacqVision A-Series server, complete the following steps:

1. Open the exacqVision client.
2. From the navigation tree, select **System Setup**, and select the **Network** tab.
3. In the **Network** window, 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.
4. Click **Apply**.

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 cannot communicate with the server, contact your network administrator.

### *Remote access for administrative support*

For administrative support to access to the server remotely, configure a 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. 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 anti-virus software on the remote client machine that may block the communication between the server IP addresses and ports.

## Camera connections

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 passwords until after you establish connectivity with the exacqVision server.

   For additional information, refer to 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 dispatch with your system.



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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 logon window, the camera is not establishing a connection with the server. Check the *exacqVision User Manual* and https://www.exacq.com/kb for a solution if the problem persists.

Repeat steps one to four for all other camera connections.

## Connections

For information about the back panel connections for the A-Series Hybrid Desktop, see Figure 2, or for the A-Series IPS Desktop, see Figure 3.Table 1: A-Series Hybrid and IPS Desktop back panel connections and ports describes the connections for both servers.

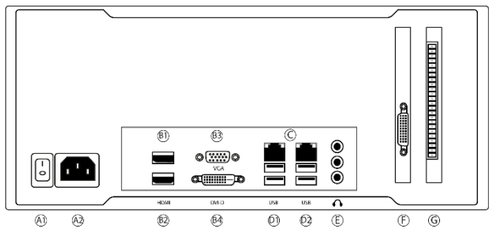

Figure 2: A-Series Hybrid Desktop back panel

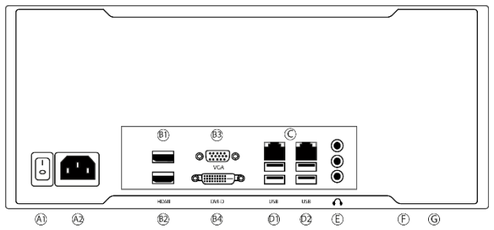

Figure 3: A-Series IPS Desktop back panel

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