MAXPRO® NVR PE Quick Install Guide

Introduction

Welcome to your new Honeywell MAXPRO® NVR PE.   This guide helps you set up the NVR right out of the box. Before installing your NVR, please read this guide carefully.

Unpack

Check that the items received match those listed on the order form and packing slip. The packing box should include, in addition to your NVR unit and this guide:

Recovery DVD

MAXPRO NVR Client Software (Single Site) and Server Software DVD (includes manuals)

MAXPRO Viewer Multi-Site Viewing Software Kit (includes DVD and Getting Started Guide). Not shown.

Not shown:
DVI to HDMI adapter
Video storage hard drives (installed in the unit)
Rail hardware kit with instructions

Note   Other peripheral hardware (owner supplied) will also be needed for your installation, such as cameras, network PoE switch for the camera network, network switch for a client workstation network, a monitor, and an optional keyboard controller.

Install the Hardware
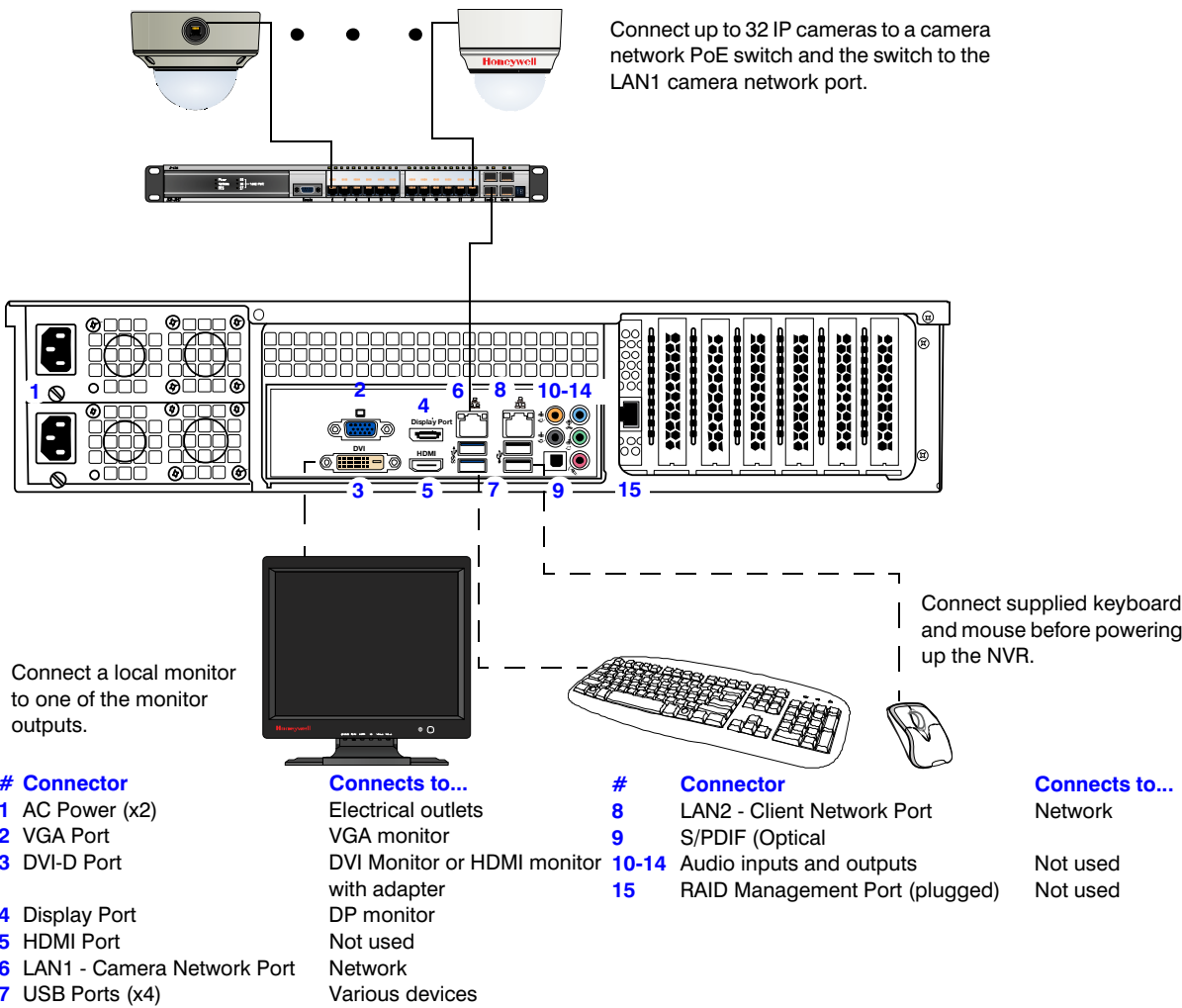
Mount the MAXPRO NVR Unit in a Rack

1.   Remove the bezel (if you ordered this option and it is installed) from the front of the unit by turning the bezel key lock clockwise, and then pulling it away from the unit.

2.   Mount the NVR with the supplied rail hardware kit. The kit allows the MAXPRO NVR PE unit to slide in and out of the rack it is mounted in and provides rear support for the chassis. Refer to the installation instructions included with the rail hardware kit.

3.   Replace the bezel (if supplied) on the front of the unit. Insert the right side of the bezel into the tabs on the right handle on the front plate of the unit and then align the bezel key lock with the left handle. Slide the left side of the bezel into place. Turn the bezel key lock counterclockwise to secure the bezel.

Hard drive release button.
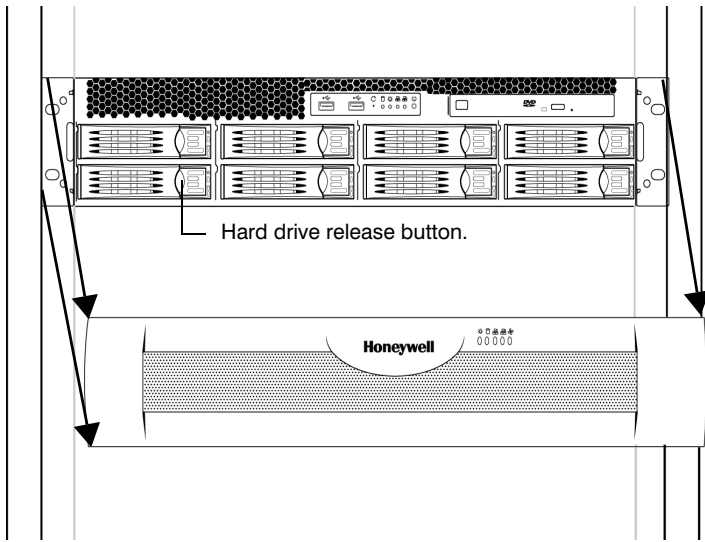
Front bezel (optional) ordered separately.

Connect the Hardware

Rear Panel

Connect up to 32 IP cameras to a camera network PoE switch and the switch to the LAN1 camera network port.

Connect a local monitor to one of the monitor outputs.

Connect supplied keyboard and mouse before powering up the NVR.

#	Connector	Connects to...	#	Connector	Connects to...
1	AC Power (x2)	Electrical outlets	8	LAN2 - Client Network Port	Network
2	VGA Port	VGA monitor	9	S/PDIF (Optical	
3	DVI-D Port	DVI Monitor or HDMI monitor with adapter	10-14	Audio inputs and outputs	Not used
4	Display Port	DP monitor	15	RAID Management Port (plugged)	Not used
5	HDMI Port	Not used			
6	LAN1 - Camera Network Port	Network			
7	USB Ports (x4)	Various devices			

Keyboard Controller (Optional)   Follow the documentation that was included with your IP keyboard controller to connect it to the NVR.
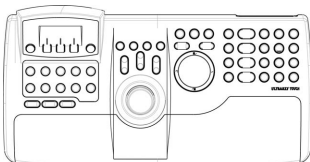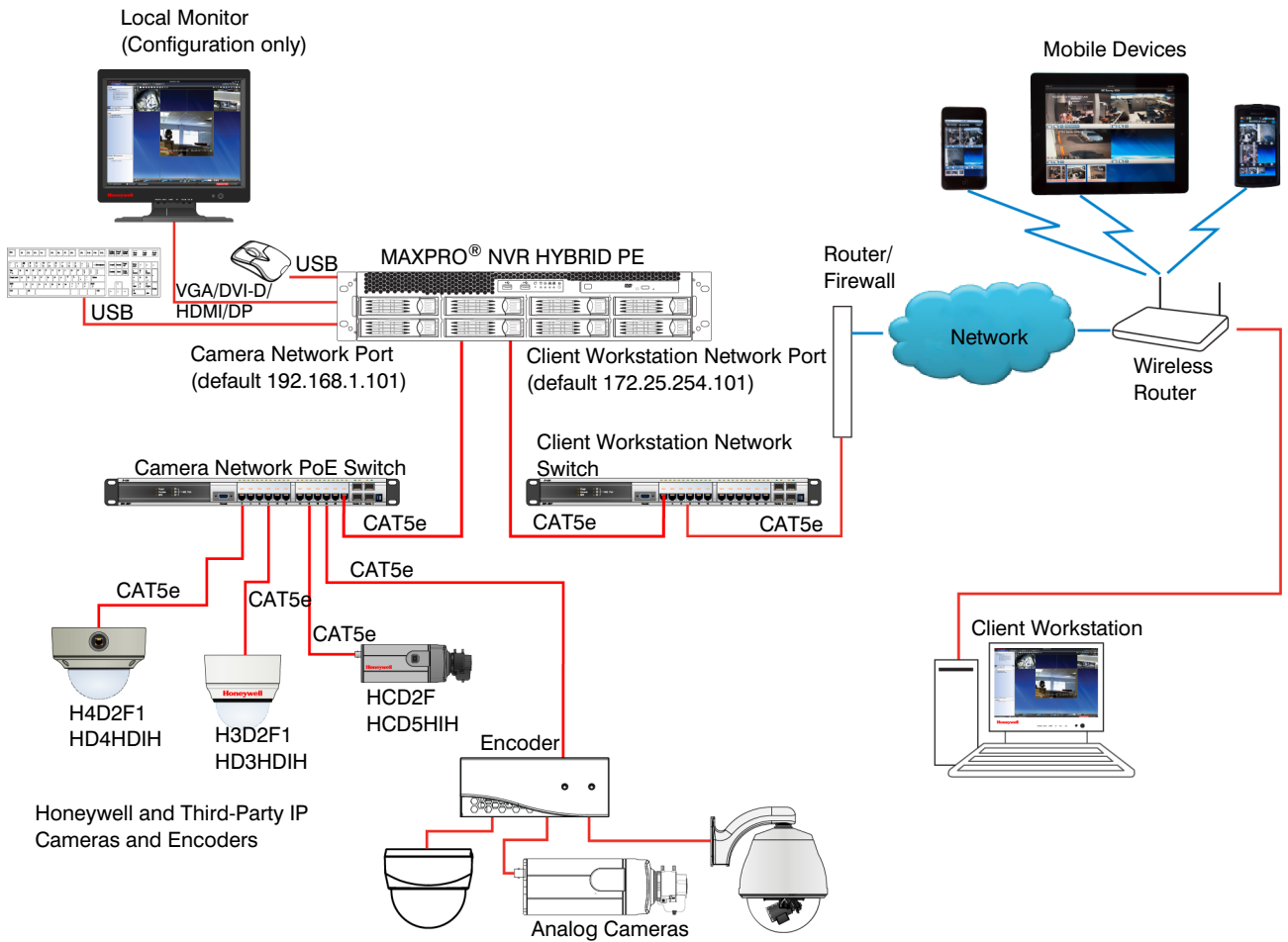
Network Connections   Connect a network PoE switch to the camera network port at the rear of the NVR. Connect your cameras to the network PoE switch with CAT5 Ethernet cables. Optionally, connect the client workstation network port to your client workstation network via a network switch. This allows remote access to your NVR. The default client workstation network IP address must be changed to an available static IP address on your client workstation network.

Monitor(s)   The MAXPRO NVR PE comes with built-in graphics and four types of monitor outputs. The unit supports connection of a single monitor using one of the outputs. The local monitor can be used to configure the NVR, however continuous local video monitoring is not recommended.

	HDMI Output	Not used
	DVI-D Output	to DVI monitor or to HDMI monitor with the adapter
	VGA Output	to VGA monitor
	Display Output	to DP monitor

The recommended resolution for your monitor is 1280 × 1024 pixels (minimum 1024 x 768) and display of at least 32 bit.

Dual Network Configuration

Local Monitor (Configuration only)

Mobile Devices

USB
VGA/DVI-D/ HDMI/DP
USB

MAXPRO® NVR HYBRID PE

Router/ Firewall

Network

Wireless Router

Camera Network Port (default 192.168.1.101)

Client Workstation Network Port (default 172.25.254.101)

Client Workstation Network Switch

Camera Network PoE Switch

CAT5e

CAT5e

CAT5e

Client Workstation

CAT5e

CAT5e

CAT5e

CAT5e

H4D2F1 HD4HDIH

H3D2F1 HD3HDIH

HCD2F HCD5HIH

Encoder

Honeywell and Third-Party IP Cameras and Encoders

Analog Cameras

Contact your dealer to purchase Honeywell and third-party IP and analog cameras and encoder.
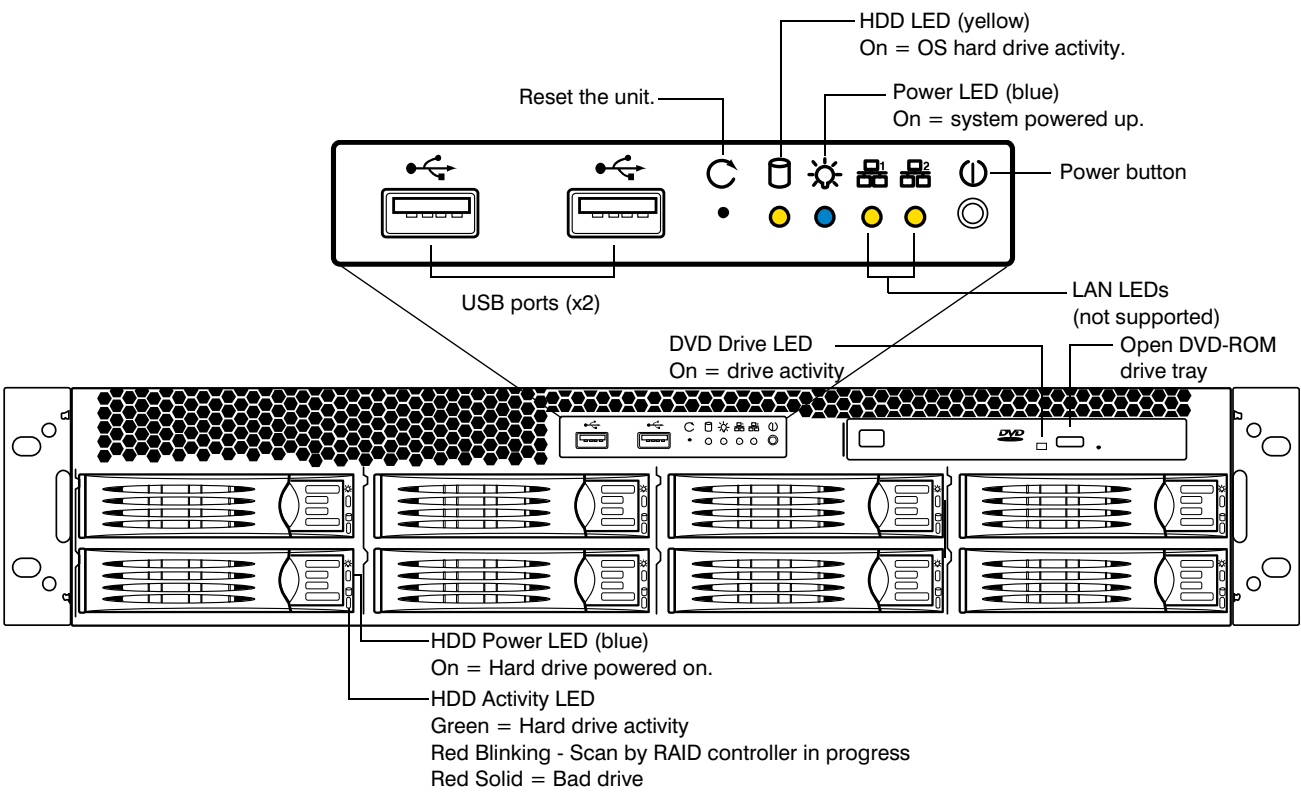
Power Up the Unit

Note   Honeywell recommends using an uninterruptible power supply (UPS) for the MAXPRO NVR PE unit, the camera network switch, and the cameras to ensure that the NVR can continue to record video during a power outage. If you need to monitor video during a power outage, consider a UPS for the monitor as well.

1.   Before powering up the NVR, turn on camera(s) and other devices connected to the NVR.

2.   Press the power button on the front of the NVR.

Front Panel

HDD LED (yellow)
On = OS hard drive activity.

Reset the unit.

Power LED (blue)
On = system powered up.

Power button

USB ports (x2)

LAN LEDs (not supported)

DVD Drive LED
On = drive activity

Open DVD-ROM drive tray

HDD Power LED (blue)
On = Hard drive powered on.

HDD Activity LED
Green = Hard drive activity
Red Blinking - Scan by RAID controller in progress
Red Solid = Bad drive

3.   After powering on the unit, you are prompted to log on. The default user is user name: **Administrator**, password: **Password1**. The user name and password are case sensitive.

The setup wizard starts automatically but may take two minutes. Proceed to *Honeywell IP Camera Configuration*.

Configure the RAID

1.   The video storage hard drives are pre-configured for RAID 5 in the factory but can be reconfigured for RAID 6 if required. However, there will be less usable video storage space.

2.   To access the RAID controller, click the HWAM icon on the desktop and login with:

•   User name = admin

•   Password = 0000
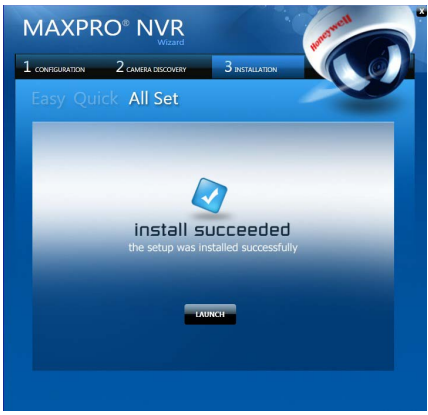
Honeywell IP Camera Configuration

Using the MAXPRO NVR Wizard (3 Clicks to Live Video)

1. The CONFIGURATION dialog appears. When the network is ready (network icon in Windows tray), click ▮STEP 2▮ to accept the default settings and proceed to CAMERA DISCOVERY.

   To modify the settings for your unique system requirements, follow the table below. After initial setup, you can do this in the MAXPRO NVR client.

Field	Description
Video Format	NTSC, PAL
Start Recording	Start recording as soon as the camera is added in MAXPRO NVR.
Dynamic IP Synchronization	NVR synchronizes any change in a device's IP address.
Auto Add Discovered Camera	Any newly connected device is automatically added to the Devices list.
Choose Camera Network	Choose your camera network.
Auto IP Assignment	Assigns a valid static IP address to the camera. Use only if you do not have a DHCP server and you want to assign an IP address in your computer network range.
Filter Discovered Cameras	Filter the discovered cameras based on the camera model and/or IP range.

Reset values without saving changes.

Proceed to CAMERA DISCOVERY.

2. The **CAMERA DISCOVERY** window appears.

   Each newly connected camera is identified and an IP address is assigned to the camera by the Wizard, after which the camera reboots. It may take a few minutes before cameras are discovered and added. You will see a *Discovery in progress…* indicator as well as a pop-up message on the lower right of your monitor. Click ▮DONE▮.
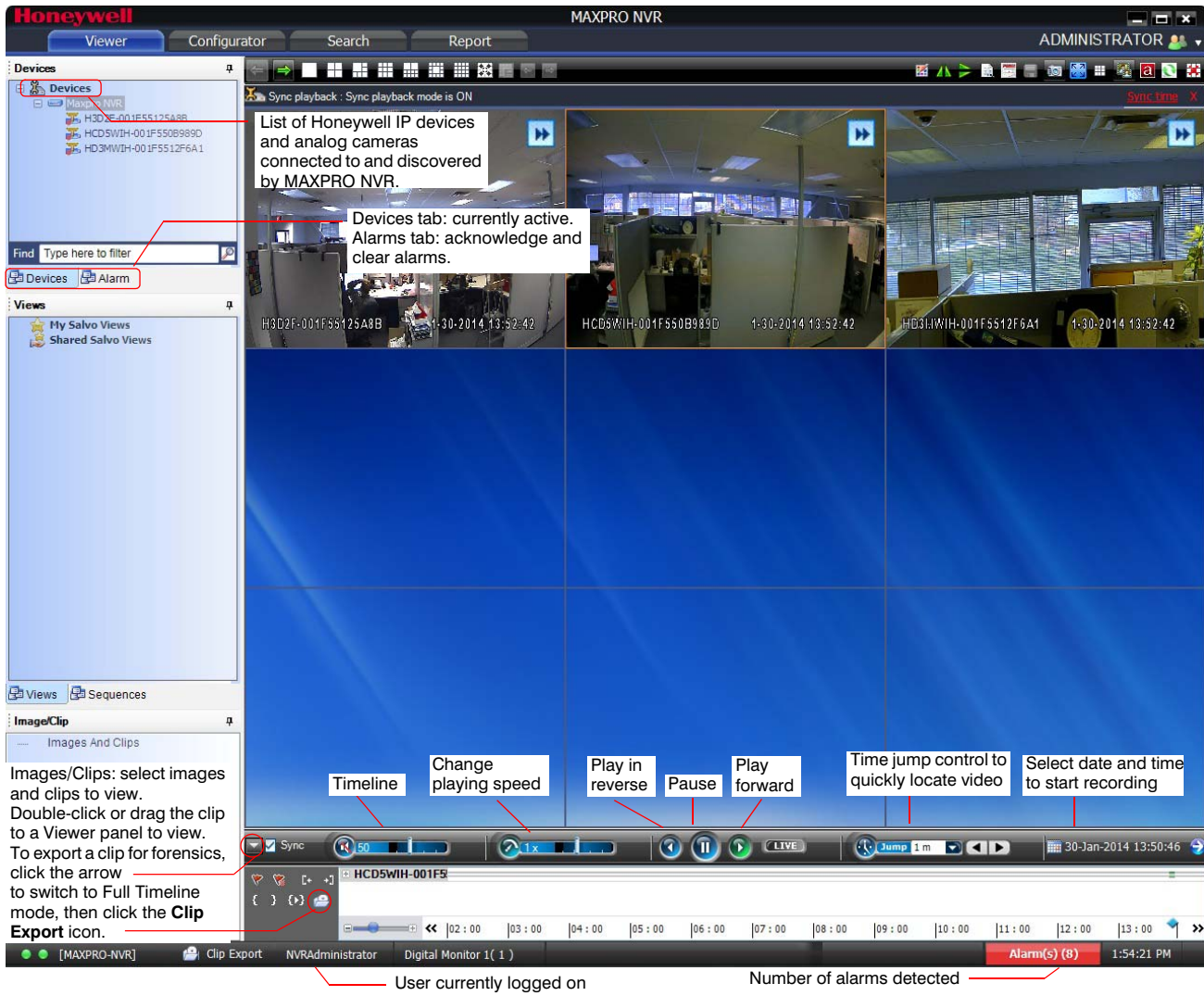
Return to CONFIGURATION page.

Click only after all connected cameras are discovered and added.

3. The **INSTALLATION** window appears. Click ▮LAUNCH▮ to start the MAXPRO NVR application. Proceed to *Live View*.

   Only Honeywell IP cameras (except equIP® Series S and HDZ Series - SD and HD IP PTZ Domes) are discovered and added in the MAXPRO NVR Wizard.
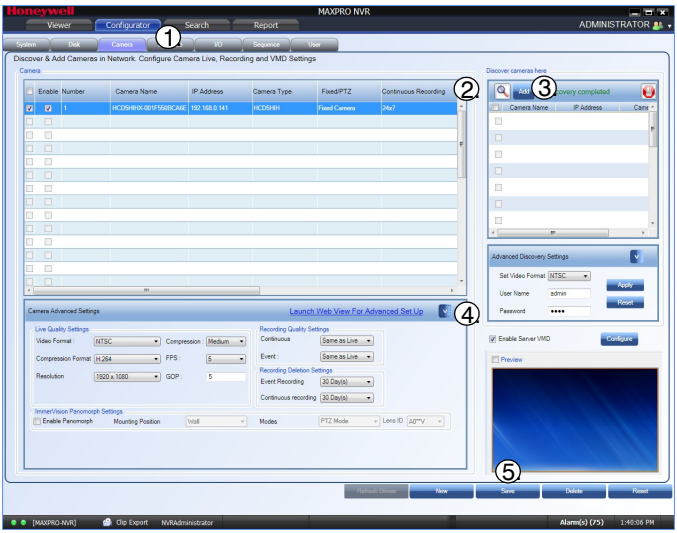
WATCH 👁 Live View

1. Please wait while the system logs you on automatically as a Windows Logged-In User.

2. MAXPRO NVR launches and the Viewer tab appears (see below).

3. To view video from cameras, double-click **MAXPRO NVR** in the Devices list to display video from all discovered cameras in the Viewer. You can also highlight and drag each camera into a panel.

Note For continuous monitoring of live video, it is recommended that you use a remote client workstation. To install a remote client, use the installation software on the software DVD included with your NVR. Select **Client Installation** as the Installation Type during setup.

List of Honeywell IP devices and analog cameras connected to and discovered by MAXPRO NVR.

Devices tab: currently active. Alarms tab: acknowledge and clear alarms.

Images/Clips: select images and clips to view. Double-click or drag the clip to a Viewer panel to view. To export a clip for forensics, click the arrow to switch to Full Timeline mode, then click the **Clip Export** icon.

Timeline

Change playing speed

Play in reverse

Pause

Play forward

Time jump control to quickly locate video

Select date and time to start recording

User currently logged on

Number of alarms detected

Third-Party Device Configuration

1. On the **Configurator** tab, click the **Camera** tab.

2. In the **Discover cameras here** area, click 🔍 to discover the connected IP cameras in the subnet.

3. Click ▮Add▮ to add the IP device to the Camera list and ensure that the user name and password in the Advanced Discovery Settings match the user name and password of the camera.

4. To change the default parameters of a camera, select it and then click ▮▮ next to **Launch Web View For Advanced Set Up** to open the camera advanced settings pane where you can modify the settings as required.

5. Click **Save** for your new settings to take effect.

Advanced Features
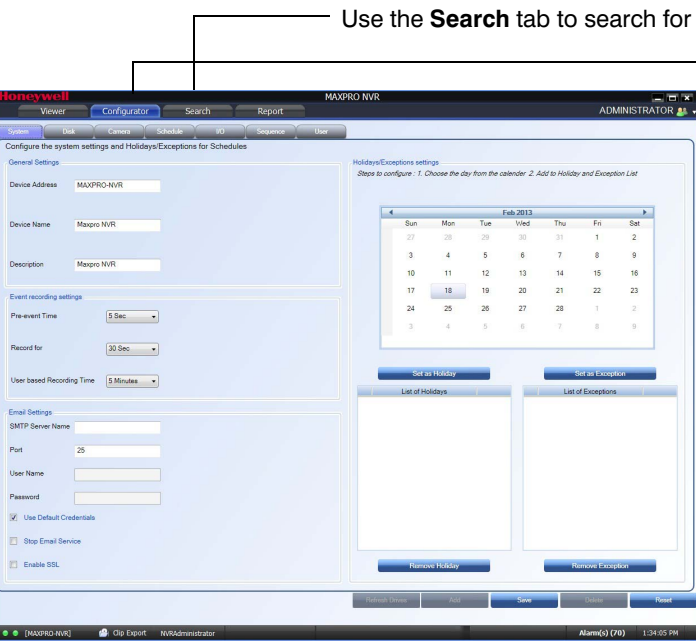
Use the **Search** tab to search for recorded video (clips) or events.

Use the **Configurator** tab to configure video devices and set up your MAXPRO NVR system.

Configurator tab sub-tabs:

System: Recording, email, holiday/exceptions for schedules.
Disk: Configure and monitor video storage hard drives.
Camera: Discover and add network cameras, live camera configuration, recording, video motion detection
Schedule: Set recording schedules for live video.
I/O: Configure input and output for each camera.
Sequence: Select a sequence of cameras for live video.
User: Set user access and permission levels.

WATCH 👁 MAXPRO NVR Web Client

To access the Web Client, click on the MAXPRO NVR Web Client shortcut on the NVR desktop. Login to the Web Client with default Username: **admin** and Password: **trinity**.

IP MAXPRO NVR Default IP Addresses

You can configure your MAXPRO NVR unit with two network ports with the following static IP addresses:

• **192.168.1.101** for LAN1 (Camera Network)

• **172.25.254.101** for LAN2 (Client Workstation Network)

If more than one MAXPRO NVR unit is on the same network, you must assign a unique IP address and computer name to each unit (the default name is **MAXPRO-NVR**).

To change the IP address

1. Click the network icon (📶 or ▮) in the located next to the clock (lower right of screen), click **Open Network and Sharing Center**, and then click **Change adapter settings**.

2. Right-click **Camera Network** or **Client Workstation Network**, and then click **Properties**.

3. Click **Internet Protocol Version 4 (TCP/IPv4)**, and then click **Properties**.

4. Click **Use the following IP address**, and then, in the **IP address**, **Subnet mask**, and **Default gateway** boxes, type the IP address settings.

5. Click **Use the following DNS server addresses**, and then, in the **Preferred DNS server** and **Alternate DNS server** boxes, type the addresses of the primary and secondary DNS servers.

To change the computer name

1. Click **Start**, right-click **Computer**, click **Properties**, click **Advanced system settings**, click the **Computer Name** tab, and then click **Change...**

2. Under **Computer name**, delete the old computer name, type a new computer name, and then click **OK**. The name cannot contain spaces or all numbers or any of the following characters: < > ; : " * + = \ | ?. After changing the computer name, restart the computer.

3. Navigate to the C:\Program Files (x86)\Honeywell\MaxproNVR\TrinityFramework\bin folder, and then double-click **MaxProNVRMachineNameUtility.exe** to open the Maxpro NVR Utility.

4. The new computer name should automatically appear in the **Machine Name** field. If it does not, enter the name manually. Click **Update**. The message `Machine Name Updated Successfully` appears when the update is complete.

ⓘ More Information

MAXPRO NVR PE	Third Party Devices
Please refer to the appropriate user guide located on the software/documentation DVD or on the Honeywell product web site at www.honeywell.com/security. The *MAXPRO NVR Operator's Guide* provides detailed information on adding and configuring third party cameras, the multi-function Web Client, as well as other advised features.	A comprehensive list of all the third party devices supported by MAXPRO NVR PE is available at Honeywell Open Technology Alliance (HOTA) www.security.honeywell.com/hota/.

Honeywell