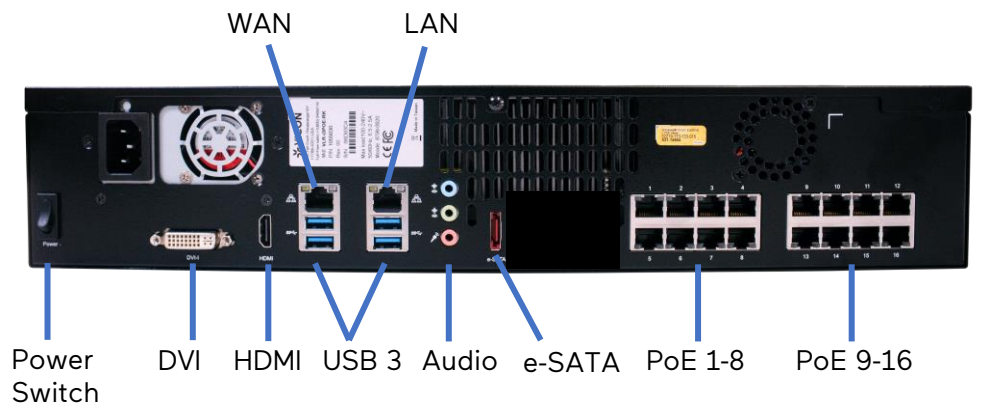**VICON**

This sheet covers the installation of the Valerus PoE NVR Recording Servers (NVRs) with built-in PoE. This system should only be installed by a qualified technician using common hand tools and approved materials in accordance with the National Electrical Code ANSI/NFPA 70, state and local wiring codes.

Front Panel Connections & Controls

Rear Panel Connections & Controls

Power LED

WAN   LAN

Removable
Drive Bays (2)

Power
Switch   DVI   HDMI   USB 3   Audio   e-SATA   PoE 1-8   PoE 9-16

Unpacking and Installation

Unpack the unit and place it in the mounting location. Hard drives are preinstalled from the factory. Refer to figure above.

- Keyboard and mouse are not included with the unit – please procure them and connect them to the server.
- Connect monitor(s) using the DVI and/or HDMI port.
- If the unit is to be part of a network or on the internet, connect it to the network using the WAN (Internet) port. The port is setup to procure an IP address automatically using DHCP.
- Attach the power cord and power the unit on. It is recommended to use an Uninterrupted Power Supply (UPS) to prevent data loss/corruption and/or drive failures due to sudden power loss.

This system is configured to be used in a standalone configuration (not part of a network of NVRs managed by a common Application Server) and has both the NVR and Application Server installed and running. If this unit is to be used as an NVR only on a bank of recorders managed by another Application Server, go to the *Reconfigure System for Use as Recording Server Only* section that follows.

## Configure System: Valerus All-in-One Recorder

1. Log into Windows using default credentials (login: VII; password: 1234).
2. Upon login, double click on the Valerus icon to launch the application.

   Valerus VMS

3. Sign into the application using default credentials (login: admin; password: 1234).
   Note: For increased security, it is highly recommended to change the credentials upon first login both for Windows and Valerus application.

4. Click on the Configuration Tab, then on NVRs.
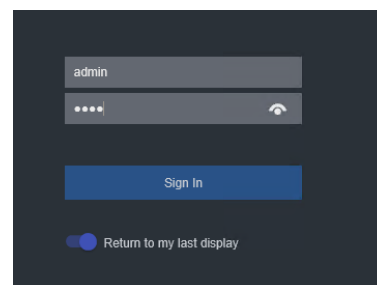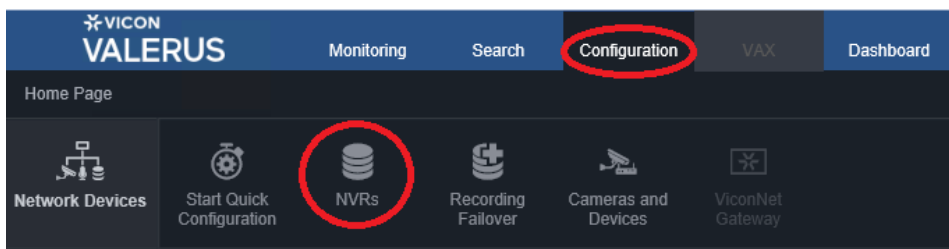
5. The local NVR should be installed and running, with the IP address 172.17.17.xxx.
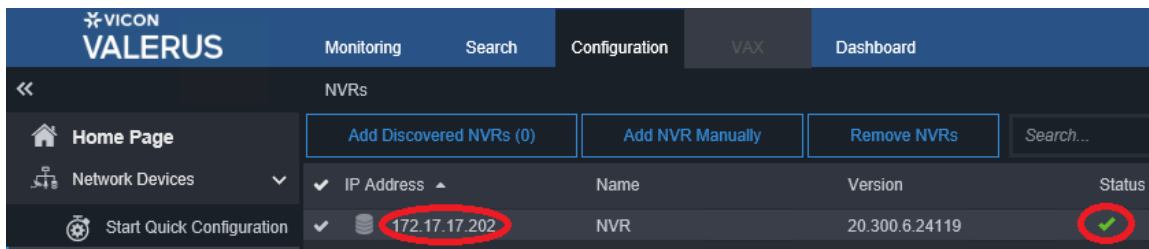
The system is now ready to be used as an All-in-One unit and now needs to be licensed. Apply and activate the licenses provided at the time of purchase. Refer to the Valerus User Guide for activation instructions.

Note: With these settings, the NVR will run as a standalone unit. However, for the system to be visible over the network, the recorder should be rediscovered and added with the IP address of the WAN port. To use the system over the local network: 1. Plug the WAN port to the local network. Make sure it is assigned an IP address, through DHCP or manually. 2. Remove the NVR at address 172.17.17.XXX. 3. Click on Discover NVRs. 4. Once discovered, click on the network icon to see all the IP addresses of the local NVR. Select the WAN IP address and add it. 5. The NVR will now be visible over the local network.

Vicon part number
8009-8319-20-02

Reconfigure System for Use as Recording Server Only

1. Log into Windows using default credentials (login: Vll; password: 1234).

2. From the Start menu, navigate to Valerus VMS Launcher and click on it; this will launch the reconfiguration program.

3. Select "Recording Server" and press "Configure Now." Pop-ups will display indicating Application Server not running, Vicon NVR is not running, and finally, Vicon NVR is up and running. The Valerus icon will also be removed from the desktop. Click "Close." The system is now available to be used as a Recorder only.

4. Connect the WAN port of the system to the network. Note the IP address of the port and connect to this NVR through an Application Server using this port address. While the system is configured for DHCP, you may choose to alter the configuration and use a fixed IP address, as allowed by your network configuration.
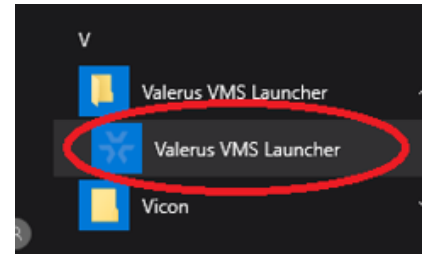
Adding PoE Cameras Directly to PoE Ports

1. Sixteen PoE ports are provided to connect PoE cameras directly. Refer to the figure for Rear Panel Connections.
   WARNING: Do not connect these ports to any network or any device other than a PoE camera. Connecting these ports to a network may cause disruption to the local network.

2. Connect PoE the cameras to one of these sixteen ports one at a time. Once connected, the system will automatically assign the camera an IP address in the range 172.17.17.1 – 200.
   Note 1: The cameras must be setup to accept DHCP addresses. If they have a predefined fixed IP address, they must be reconfigured for DHCP scheme. Most cameras default to DHCP when factory reset is applied. Some older models of cameras are not fully compliant to the DHCP specification and might not connect using this method. To be used with this unit, these cameras should be assigned an IP address manually.
   Note 2: The DHCP addresses and addressing scheme for the cameras can be changed, but this is discouraged due to the complexity involved. Refer to the full PoE-NVR manual for details on networking address assignment and system architecture.

Adding Additional Network Cameras

1. Additional cameras can be added to the unit using a Network Switch connected to the LAN (Cameras) port like on any other NVR. The LAN port is setup to receive DHCP addressing by default. Fixed IP addressing scheme can also be used on both the LAN port and any IP cameras attached through a switch.

2. The built-in DHCP server does not provide addresses on the LAN port by default. That can be changed through the system settings, however, if it is desired to use internal DHCP addressing for cameras attached to the LAN port through a switch. Refer to System Manual for details (link at end of document).

3. In the Valerus application, go to the Configuration tab and then to "Cameras and Devices." Click on "Add Discovered Devices." All PoE cameras connected to the system will be available here to be added to the NVR. Add them to the NVR and configure them as desired.
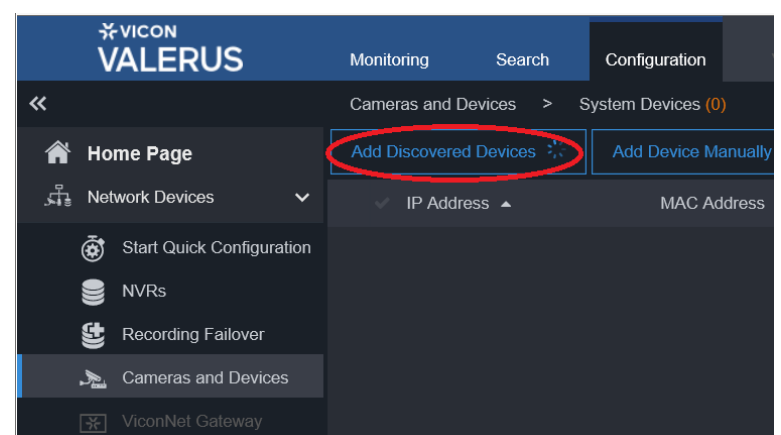
Valerus documentation has been provided on the system. A link is on the desktop. Refer to **Valerus User Guide** for instructions on using the Valerus application. For the most updated documentation on Valerus NVR, visit www.vicon-security.com/products/valerus-vms/.

Valerus Manual

PoE-NVR Manual