

VideoXpert® Storage Installation Manual

Regulatory Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radio and Television Interference

This equipment has been tested and found to comply with the limits of a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes and modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

CAN ICES-3 (A)/NMB-3(A)

Class A EMC

A급 기기 (업무용 방송통신기자재): 이 기기는 업무용 (A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

Equipment Class A (For Commercial Broadcasting & Communication Equipment): This equipment is commercial use (Class A) electromagnetic wave suitability equipment and to be used commercially.

Parts List

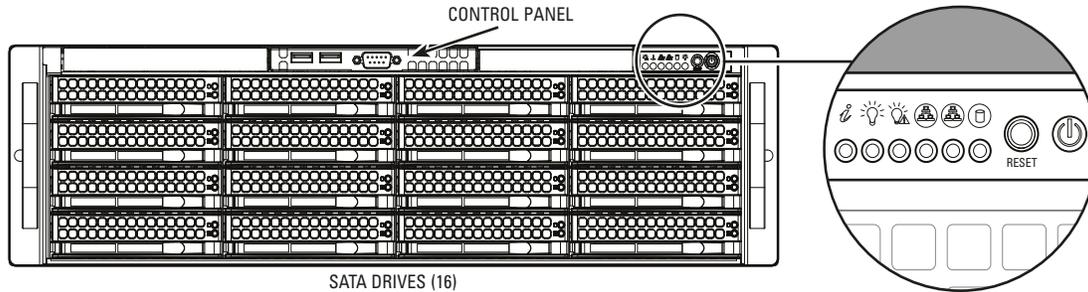
Parts Included



Equipment Needed for Installation



Product Overview: Front



Unit Status



Red:

- Blinking quickly (1x/sec): Fan failure.
- Blinking slowly (1x/4 sec): Power failure.
- Solid: The CPU temperature is too high.

Power Status



Solid green indicates that the unit is on.

Power Fail Status



Red: Indicates a power supply failure. The remaining power supply module will carry the load, but you should replace the failed power supply module to ensure uptime.
Off: Power is functioning normally.

Network Status



Green: Flashes to indicate network activity.
Off: The network interface is disconnected.

Hard Disk Status



Indicates HDD activity when flashing.

Reset



Restarts the unit.

Power



Press to turn on the unit; press and hold to forcefully shut down.

Drive Carrier LEDs

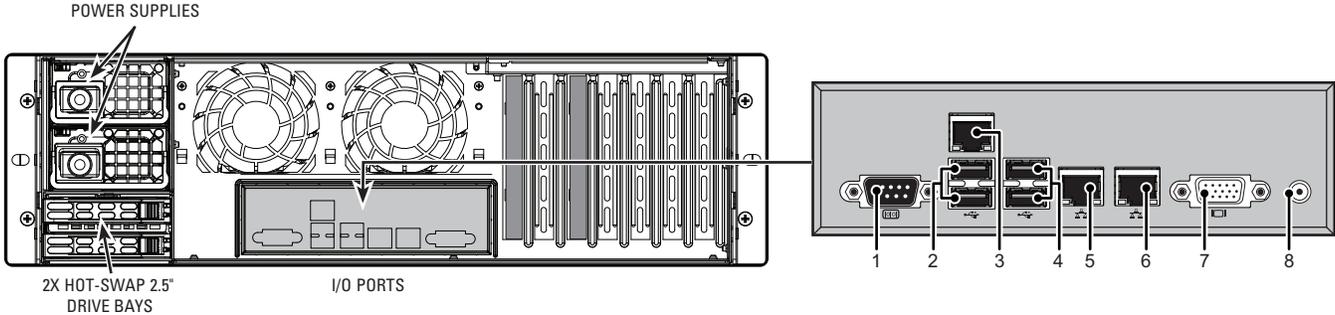
Each drive carrier has two indicator LEDs.

Blue: Solid indicates that a drive is installed; blinking indicates I/O activity.

Red:

- Solid: The drive failed.
- Blinking at 1 Hz: The drive is rebuilding.

Product Overview: Rear



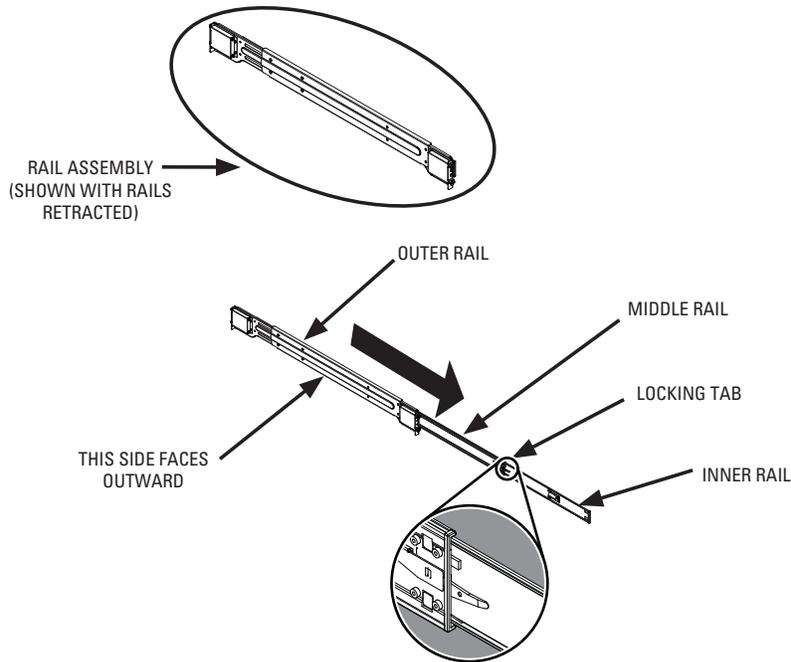
- 1 Serial port
- 2 USB 2.0 ports
- 3 Do not use.
- 4 USB 3.0 ports
- 5 Primary network interface
- 6 Do not use.
- 7 VGA
- 8 Do not use.

Installing the Unit

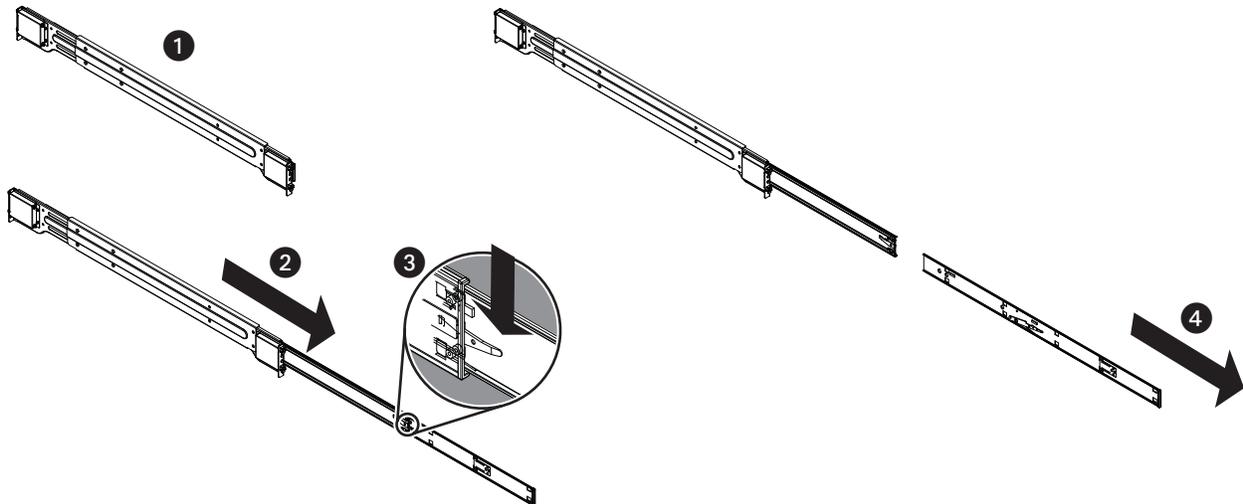
It is recommended that you complete the following sections in the order described for best results. Install the unit in a rack, insert the drive carriers, connect power and network, and then turn the unit on.

Attaching Rack Rails and Rack-Mounting the Unit

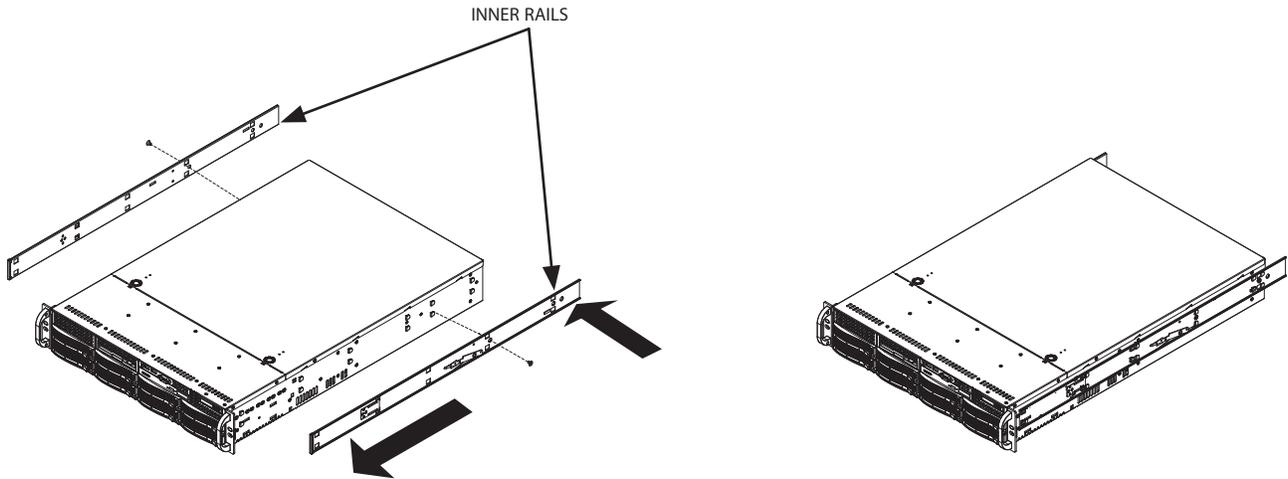
Observe typical precautions when mounting the unit in a rack. Ensure that all drives are secured before attempting to install the unit in a rack. Leave enough clearance in front of the rack (approximately 25 inches) to ensure that you can open the chassis bezel; leave at least 30 inches of clearance behind the unit to ensure sufficient airflow.



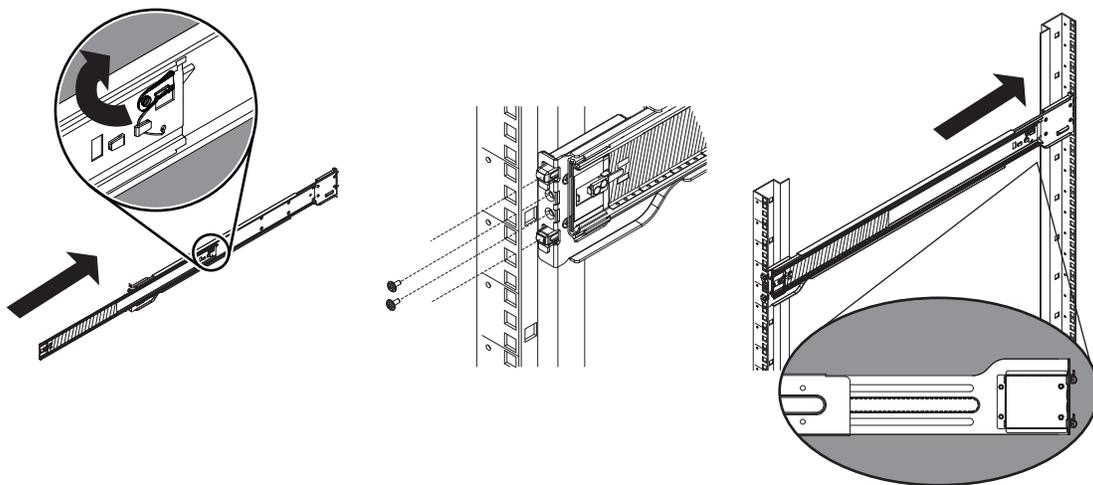
1. Separate the inner and outer rails by extending them and pressing down on the locking tabs.



2. Align the inner rails over the hooks on the sides of the unit, and slide the rails towards the front of the chassis to lock them in place. Use screws to firmly attach the inner rails.

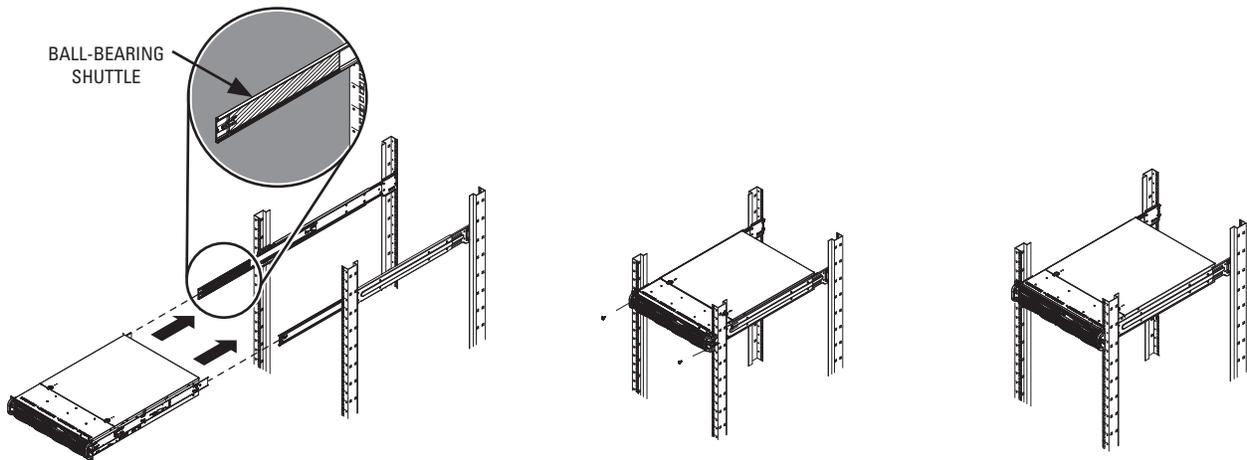


3. Press upward on the locking tab at the end of the middle rail, and push the middle rail back into the outer rail.
4. Hang the hooks on the front of the outer rails on the slots in the rack; extend the rear of the outer rail to fit the rack posts, and use the hooks on the rear portion of the rails to fit the outer rails on the rack. Use screws to secure the outer rails to the rack.



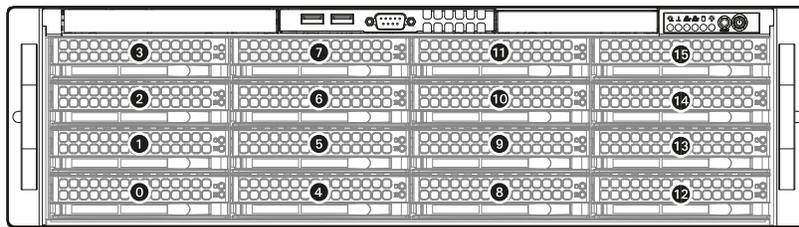
5. Pull the middle rail out from the front of the outer rail and ensure that the ball-bearing shuttle is at the front locking position of the middle rail.

- Align the chassis-attached inner rail with the front of the middle rail, and slide the chassis onto the middle rails. Depress the locking tabs on both sides simultaneously, and push the chassis all the way to the rear of the rack, securing it in place.

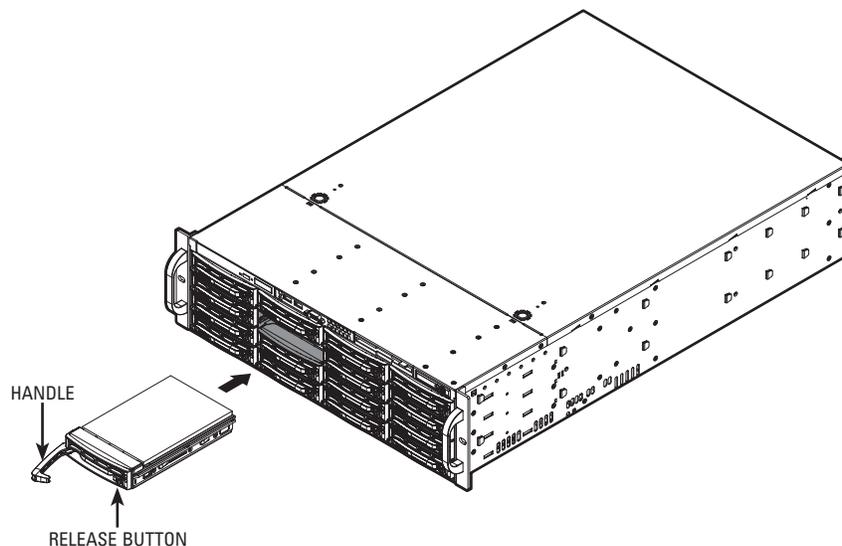


Installing Drive Carriers (Hard Disks)

Drive carriers and bays are labeled 0-15, bottom to top, left to right. The bottom left drive is drive slot 0; the bottom slot, second from the left is drive 4; and so on. Install the carriers in the bays for which they are intended to ensure the array functions properly. Install the drive carriers before starting the unit to ensure that the array builds quickly and properly when you start the unit for the first time.



Align the drive carrier with the appropriate slot, and push the carrier into the slot. Press the handle towards the carrier to lock the carrier in the slot.



Connecting the Unit

Ensure that the unit is properly grounded, secured in the rack, and the drive carriers are secured in place before you connect power. The unit has primary (top) and secondary (bottom) power modules; the secondary powers the unit if the primary fails.

At a minimum, you must connect the following before starting the unit:

- Either power supply
- USB Keyboard
- Primary network interface (nearest to the USB ports on the right)

The primary network interface must be connected before you start the unit, otherwise VideoXpert will not discover the Storage hardware; if you connect the primary network interface (which appears in Windows® as “Eth2”) after starting the unit, you must restart the unit to enable discovery.

NOTE: Do not connect network interfaces other than the primary; connecting other network ports may prevent discovery within VideoXpert

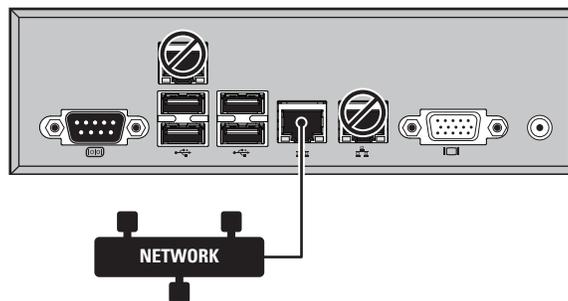


Figure 1: The primary network port is to the immediate right of the USB ports

NOTICE: In order to comply with the voltage dips and short interruptions clause of Europe's EN 50130-4, the VXS redundant power supplies were tested with separate, dedicated A.C. branch circuits. Provide similar means of backup power during installation, following all applicable local codes and standards.

Getting Started

Configuring the Unit

Ensure that all drives are installed before you start the unit. When you first start the unit, it will create a single virtual disk at *D:* in which to store your video. During initialization of the drive array, the blue LEDs will flash rapidly; initialization does not impact recording operations. After several hours, flashing will slow to show normal disk activity.

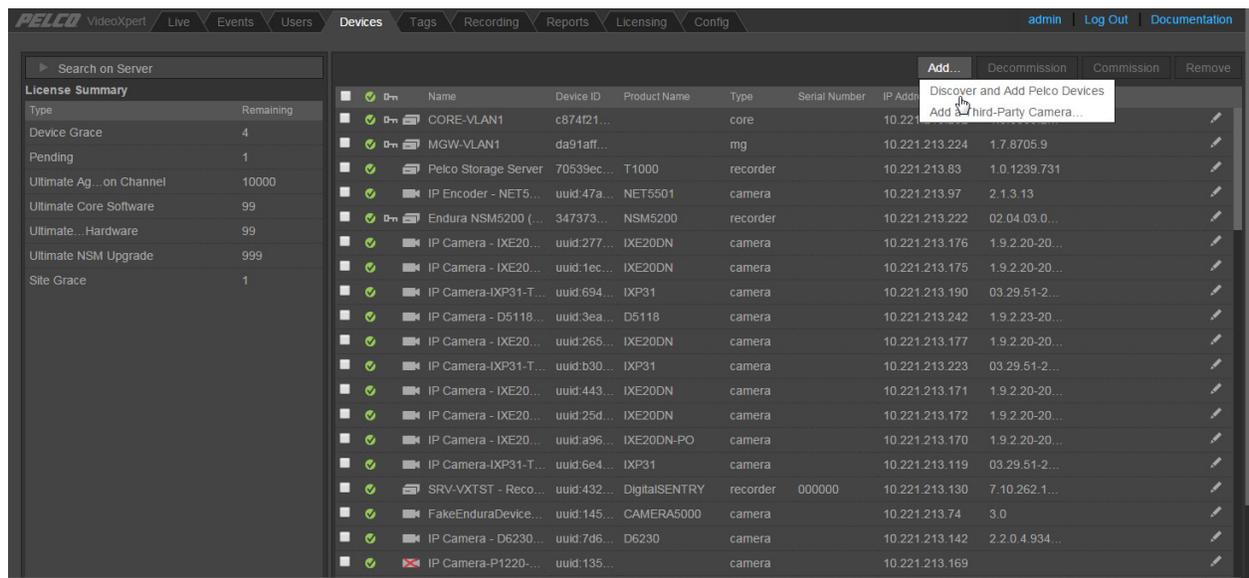
Before you add Storage to VideoXpert®, you must log in and ensure that the unit has obtained an IP address and configure NTP.

1. Turn the unit on.
2. Log in to Windows. The default user name is **admin** and the default password is **PeI2899100**.
3. Ensure that the unit is assigned an IP address on the VideoXpert network. By default, the unit obtains an address over DHCP, but you can manually assign an IP address and Host name.
4. Point the unit to the NTP server on the VideoXpert network. Your Storage server and all VideoXpert components must be time-synchronized to ensure the proper recording and retrieval of video.
 - Click Start, select Programs, and then run *Edit NTP Configuration* as an administrator. Provide the address of your NTP server.
 - Manually edit the *C:\Program Files (x86)\NTP\etc\ntp.conf* file and add a line containing **server {IP of NTP server} iburst**. Save and close the file.
5. Restart the unit.

Adding Storage to VideoXpert

You must prompt VideoXpert to discover and add Storage before you can assign cameras and begin recording. Refer to the VideoXpert Admin Portal guide for information about assigning cameras to recorders.

1. Log in to the VideoXpert Admin Portal.
2. Go to the *Devices* page.
3. Click *Add* and select *Pelco Devices*. The system will search for and add your Storage server as *Pelco Storage Server*. The Admin Portal may not refresh devices; you can manually refresh the list by expanding the *Search on Server* area and clicking *Load All*. You can click  next to your Storage server to change its name within VideoXpert.



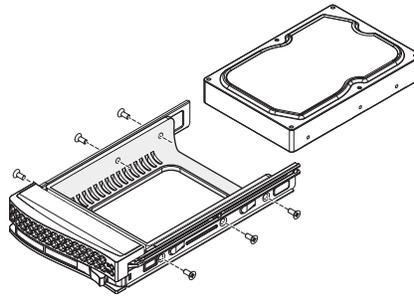
| Name | Device ID | Product Name | Type | Serial Number | IP Address |
|------------------------|-------------|---------------|----------|---------------|----------------|
| CORE-VLAN1 | c874f21... | core | | | 10.221.213.224 |
| MGW-VLAN1 | da91aff... | mgw | | | 10.221.213.224 |
| Pelco Storage Server | 70539ec... | T1000 | recorder | | 10.221.213.83 |
| IP Encoder - NET5... | uuid:47a... | NET5501 | camera | | 10.221.213.97 |
| Endura NSM5200 (...) | 347373... | NSM5200 | recorder | | 10.221.213.222 |
| IP Camera - IXE20... | uuid:277... | IXE20DN | camera | | 10.221.213.176 |
| IP Camera - IXE20... | uuid:1ec... | IXE20DN | camera | | 10.221.213.175 |
| IP Camera - IXP31-T... | uuid:694... | IXP31 | camera | | 10.221.213.190 |
| IP Camera - D5118... | uuid:3ea... | D5118 | camera | | 10.221.213.242 |
| IP Camera - IXE20... | uuid:265... | IXE20DN | camera | | 10.221.213.177 |
| IP Camera - IXP31-T... | uuid:b30... | IXP31 | camera | | 10.221.213.223 |
| IP Camera - IXE20... | uuid:443... | IXE20DN | camera | | 10.221.213.171 |
| IP Camera - IXE20... | uuid:25d... | IXE20DN | camera | | 10.221.213.172 |
| IP Camera - IXE20... | uuid:a96... | IXE20DN-PO | camera | | 10.221.213.170 |
| IP Camera - IXP31-T... | uuid:6e4... | IXP31 | camera | | 10.221.213.119 |
| SRV-VXTST - Reco... | uuid:432... | DigitalSENTRY | recorder | 000000 | 10.221.213.130 |
| FakeEnduraDevice... | uuid:145... | CAMERA5000 | camera | | 10.221.213.74 |
| IP Camera - D6230... | uuid:7d6... | D6230 | camera | | 10.221.213.142 |
| IP Camera - P1220... | uuid:135... | camera | | | 10.221.213.169 |

Removing and Replacing Hard Disks

Ensure that you replace drives in the correct slot when removing more than one drive carrier. When replacing hard disks, do not mix sizes. When replacing drives, you should use drives qualified by Pelco. The unit's operating system is stored on an SSD within the chassis. Contact Pelco Support if you need to replace the operating system drive.

The size of the drive array determines how long it takes to rebuild the array when you replace a drive.

1. Push the release button on the drive carrier. Swing the drive handle away from the unit, and pull straight out to remove the drive carrier.
2. Unscrew and remove the failed drive.
3. Place the new drive in the carrier, circuit board down so that the mounting holes align with the carrier.



4. Use screws to secure the drive to the carrier.
5. Re-insert the drive carrier in the appropriate slot on the front of the unit.

Warranty Statement

For information about Pelco's product warranty and thereto related information, refer to www.pelco.com/warranty.



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