



by **Schneider** Electric

CONFIGURATION

Endura[®] NSM5200 Series



Web Configuration

C4603M-A (5/09)

Video Quality Caution

FRAME RATE NOTICE REGARDING USER-SELECTED OPTIONS

Pelco systems are capable of providing high quality video for both live viewing and playback. However, the systems can be used in lower quality modes, which can degrade picture quality, to allow for a slower rate of data transfer and to reduce the amount of video data stored. The picture quality can be degraded by either lowering the resolution, reducing the picture rate, or both. A picture degraded by having a reduced resolution may result in an image that is less clear or even indiscernible. A picture degraded by reducing the picture rate has fewer frames per second, which can result in images that appear to jump or move more quickly than normal during playback. Lower frame rates may result in a key event not being recorded by the system.

Judgment as to the suitability of the products for users' purposes is solely the users' responsibility. Users shall determine the suitability of the products for their own intended application, picture rate and picture quality. In the event users intend to use the video for evidentiary purposes in a judicial proceeding or otherwise, users should consult with their attorney regarding any particular requirements for such use.

Getting Started

This manual explains how to configure the Endura® NSM5200 network storage manager (NSM) using a standard Web browser. The NSM5200 can be configured using a web browser on a PC connected to the Endura network or directly connected to each NSM5200.

NOTE: Each NSM5200 must be individually configured while connected to the network. If the NSM5200's DHCP address is not available, a default IP address of 172.31.255.254 is programmed into Ethernet port 2.

USING THE WEB BROWSER

The following minimum system requirements are necessary to use a Web browser with the NSM5200:

- Windows® 98, Windows 2000, Windows XP (or later) PC, or Mac® OS X 10.3.9 (or later)
- Microsoft® Internet Explorer® 5.5 (or later) or Mozilla® Firefox® 1.5 (or later)
- Screen resolution of 1024 x 768 pixels or higher, 16- or 32-bit pixel color resolution
- Adobe® Flash® Player 10 or higher (available on the NSM5200 Resource Disc)
- At least one reserved static IP address for each Storage Pool

CONFIGURING CABLE SETUPS

If you are connecting directly to each NSM through a laptop, follow the instructions below to connect to Ethernet port 2. If you are connecting to the NSM5200s through a central PC, use the Endura Utilities to find the DHCP address assigned to each NSM5200, and then enter that address in an Internet Explorer session on a PC connected to the Endura network.

Configure your cable setups using either a crossover cable or a straight through cable. Use either setup to configure the network settings for the Pool Manager and for each Pool Member.

CROSSOVER CABLE

To configure your network settings using a crossover cable (refer to Figure 1):

1. Connect a standard network cable from Ethernet port 1 to the Endura network.
2. Connect one end of the crossover cable to the network connector on the laptop.
3. Connect the other end of the crossover cable to Ethernet port 2 located on the NSM5200 rear panel.
4. Turn on your laptop.
5. Start the NSM5200. It will take approximately 10 to 15 minutes for the unit to turn on completely.

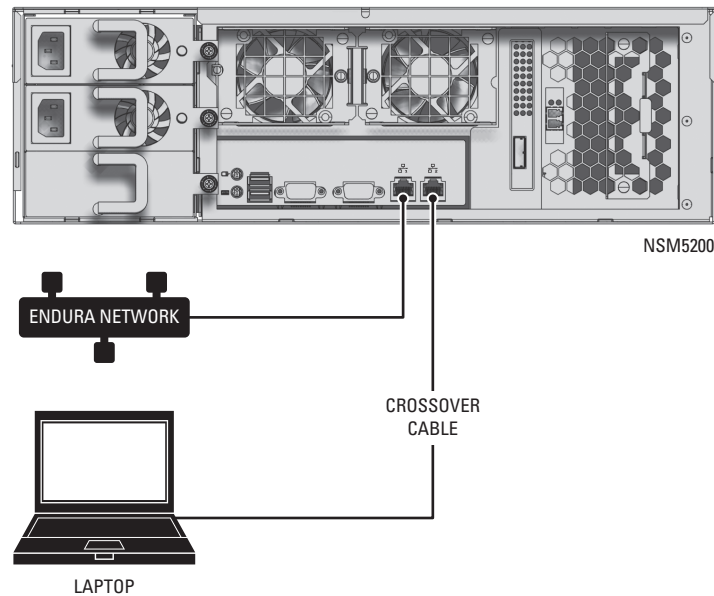


Figure 1. Crossover Cable Setup

6. Configure the network settings on the laptop using the following information..
 - IP address: 172.31.255.253
 - Subnet Mask: 255.255.255.0
7. Click Ok or Apply.
8. Open a Web browser, and then type the following IP address: 172.31.255.254. The Web browser login dialog box appears (refer to Figure 3 on page 6).

STRAIGHT THROUGH CABLE

To configure your network settings using a straight through cable (refer to Figure 2):

1. Connect a standard network cable from Ethernet port 1 to the Endura network.
2. Connect one end of the straight through cable to the network connector on the laptop.
3. Connect the other end of the straight through cable to a network switch.
4. Connect a second straight through cable from the network switch to Ethernet Port 2 located on the NSM5200 back panel.
5. Turn on your laptop.
6. Start the NSM5200. It will take approximately 10 to 15 minutes for the unit to turn on completely.

NOTE: To prevent IP and routing conflicts, make sure that only the laptop and the NSM5200 are connected to the network switch.

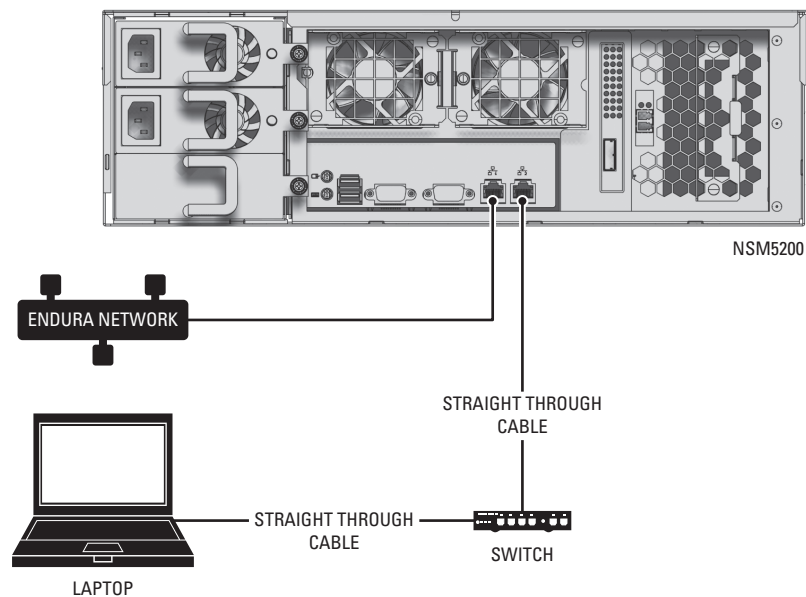


Figure 2. Straight Through Cable Setup

7. Configure the network settings on the laptop.
 - IP address: 172.31.255.253
 - Subnet Mask: 255.255.255.0
8. Click OK or Apply.
9. Open a Web browser, and then enter the following IP address: 172.31.255.254. The Web browser login dialog box appears.
10. Type admin (the default password) to log on to the Web application. The setup screen for the Pool Manager appears (refer to Figure 3 on page 6).

NOTE: For security purposes, change the password after you log on for the first time (refer to Figure 7 on page 10).

Setting Up the NSM Pools

CONFIGURING THE POOL MANAGER

Figure 3 displays the setup screen for the Pool Manager.

The screenshot shows the 'NSM Settings' window with a sidebar on the left containing three icons: 'NSM Settings' (gears), 'NSM Pool' (network diagram), and 'Account Settings' (lock). The main area is titled 'NSM Settings' and is divided into three sections: 'Unit Settings', 'Network Settings', and 'Pool Settings'. In 'Unit Settings', 'Unit Role' has radio buttons for 'Manager' (selected) and 'Member', and 'Unit Name' is a text box containing 'Lobby'. In 'Network Settings', there are radio buttons for 'DHCP' (selected) and 'Static'. Below are text boxes for 'IP Address' (10.80.199.230), 'Subnet Mask' (255.255.255.0), 'Broadcast Address' (10.80.199.255), 'Gateway Address' (empty), and 'DNS Servers' with two entries: '1. 10.220.4.21' and '2. 10.220.4.41'. In 'Pool Settings', 'Time Zone' is a dropdown menu showing 'America.Los_Angeles', 'Pool Name' is a text box with 'Building7', 'NTP Server' is empty, 'SNMP Trap Manager' is empty, 'Failover IP Address' is '10.80.199.23', and 'Manager Key' is 'BVUKSMUFPBC' with a 'Generate Key' button next to it. At the bottom left are 'Save' and 'Cancel' buttons.

Figure 3. NSM Settings Screen: Configuring the Pool Manager

UNIT SETTINGS

1. Select Manager as the Unit Role (if not already selected).
2. Type a user-friendly name in the Unit Name box. This name will appear on the Endura workstation and is a convenient way to identify a specific unit.

NETWORK SETTINGS

1. Select DHCP or Static

- **DHCP:** Select DHCP if you want the network to automatically assign an IP address to the NSM5200. Go to Pool Settings to continue with the Pool Member configuration.
- **Static:** Select Static if you want to assign IP settings manually. Additionally, you will need to assign a unique IP Address for the NSM5200, Subnet Mask, and Gateway Address.

NOTE: If you change an IP address manually and click the Save button, "Restarting Services, Please Wait..." appears on the screen momentarily, and then a Reboot NSM dialog box appears (refer to Figure 4). After reviewing the reboot information, click OK to close the dialog box.

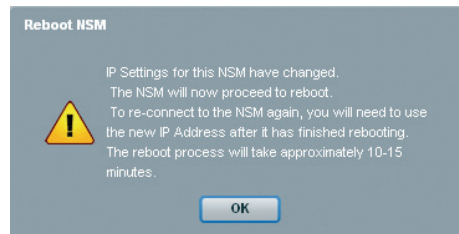


Figure 4. Reboot NSM Dialog Box

POOL SETTINGS

1. Select the appropriate time zone to be used by this unit.

2. **Pool Name:** Enter a user-friendly name for the pool.

3. **NTP Server:** Type the IP address of the NTP server used to synchronize time on the network. If the Endura System Manager is used as the NTP server, enter its IP address.

NOTE: The NTP server should be running before you assign its IP address to an NSM5200.

4. **SNMP Trap Manager:** If an SNMP monitoring system is being used, enter the IP address of the SNMP trap manager to which SNMP traps should be sent.

5. **Failover IP Address:** Enter the static IP address reserved for the pool. This IP address is a virtual IP address for the NSM5200. It must be an unused IP address on the network.

NOTE: This IP address must not be the same as the unit IP addresses used by the manager or pool members.

6. **Manager Key:** Note the key generated for the storage pool; this key will be used to add members to the pool. To generate a different key, click the Generate Key button.

7. Click Save to retain the settings.

ADDING CAMERAS TO A STORAGE POOL

Prior to assigning cameras to a storage pool, Pelco recommends that camera names and attributes are configured using the WS5000. Each camera is assigned to one NSM at a time. Once assigned, the camera is seen only in that NSM's associated pool. If the camera is removed from the associated pool, it becomes visible to all NSMs and can be reassigned.

1. Click the NSM Pool button (refer to Figure 5).
 - a. Select the cameras you want to record from the "Cameras Not in Pool" section of the screen.
 - b. Click Add. The selected cameras are added to the "Cameras Associated to Pool" section of the screen.
 - c. Click Save to retain the settings.

NOTE: To update the camera lists, click the Refresh Cameras button. The update takes approximately 10 minutes. To complete the refresh process, click on one of the other screens (NSM Settings or Accounts Settings), and then return to the NSM Pool screen.

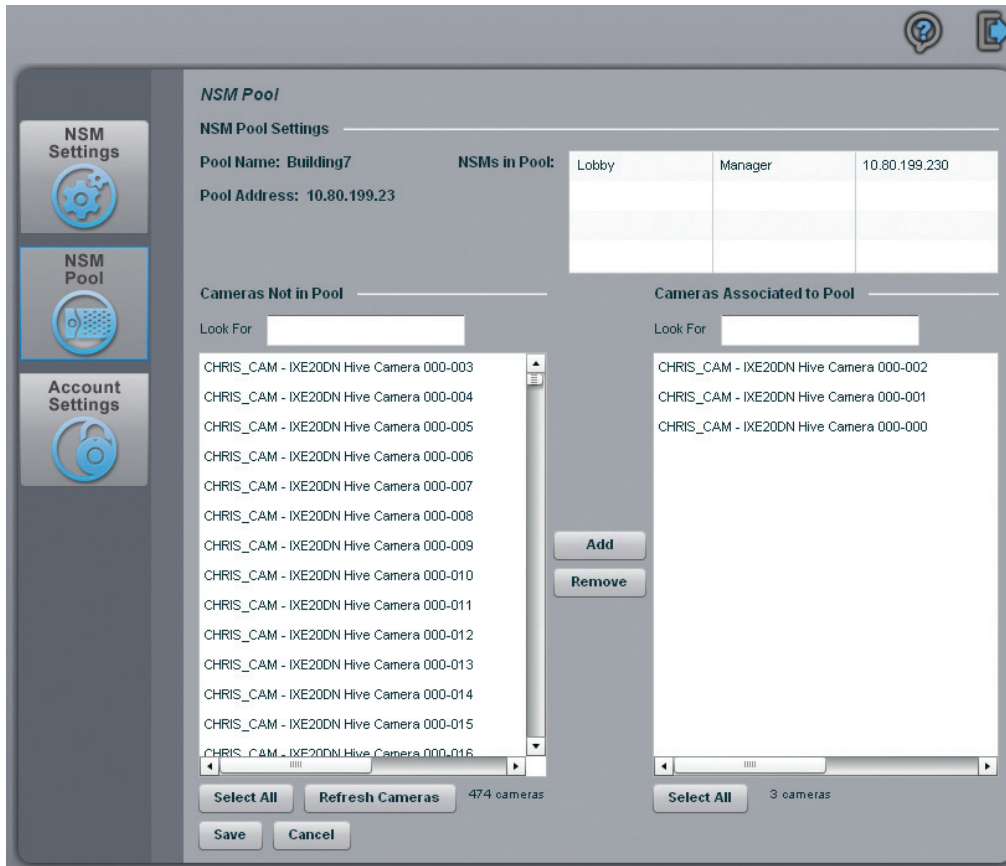



Figure 5. NSM Pool Settings Screen

2. When the configuration is complete, click  to log out of the Web application, and then disconnect the crossover or straight through cable from Ethernet port 2 on the NSM5200.

NOTE: The cameras in the "Cameras Associated to Pool" section will not record until you set up a recording schedule in the WS5000 workstation.

CONFIGURING A POOL MEMBER

Figure 6 displays the setup screen for the Pool.

NOTE: Reconnect your cable connections for each Pool Member before configuring the settings (refer to *Configuring Cable Setups* on page 4).

The screenshot shows the 'NSM Settings' window with a sidebar on the left containing three icons: 'NSM Settings' (gears), 'NSM Pool' (network), and 'Account Settings' (lock). The main area is titled 'NSM Settings' and is divided into three sections: 'Unit Settings', 'Network Settings', and 'Pool Settings'. In 'Unit Settings', 'Unit Role' has radio buttons for 'Manager' and 'Member' (selected), and 'Unit Name' is 'WestHallway'. In 'Network Settings', 'DHCP' and 'Static' radio buttons are shown, with 'DHCP' selected. Below are input fields for 'IP Address' (10.80.199.230), 'Subnet Mask' (255.255.255.0), 'Broadcast Address' (10.80.199.255), and 'Gateway Address'. 'DNS Servers' are listed as 1. 10.220.4.21 and 2. 10.220.4.41. In 'Pool Settings', 'Pool Name' is 'Building7' with a 'Remove From Pool' button. 'Failover IP Address' is 10.80.199.23. 'Manager Key' is 'SZCERJJDWQEB' with a 'Validate Manager' button. At the bottom are 'Save' and 'Cancel' buttons.

Figure 6. Configuring a Pool Member

UNIT SETTINGS

1. Select Member as the Unit Role.
2. Type a user-friendly name in the Unit Name box.

NETWORK SETTINGS

1. Select DHCP or Static.
 - **DHCP:** Select DHCP if you want the network to automatically assign an IP address to the NSM5200. Go to Pool Settings to continue the Pool Member configuration.
 - **Static:** Select Static if you want to assign IP settings manually. Additionally, you will need to assign a unique IP Address for the NSM5200, Subnet Mask, and Gateway Address.

NOTE: If you change an IP address manually and click the Save button, “Restarting Services, Please Wait...” appears on the screen momentarily, and then a Reboot NSM dialog box appears (refer to Figure 4 on page 7). After reviewing the reboot information, click OK to close the dialog box.

POOL SETTINGS

1. Type the failover static IP address, or the domain name that was configured on the Pool Manager, in the Manager Address box.
2. Type the key that is generated on the manager unit in the Manager Key box, and then click Validate Key to verify that the key was entered correctly. If correct, the Pool Name entered on the Manager unit is displayed.

NOTES:

- The Pool Name is assigned through the Pool Manager.
 - To remove a member from the pool, click the Remove From Pool button.
3. Click save to retain the settings.

CHANGING SECURITY SETTINGS

1. Click the Account Settings button (refer to Figure 7).
2. Type a new password for the Web application in the “Enter new password” and “Re-enter new password” boxes. The new password replaces the default password used by the Web application.
3. Type a security question and answer in the respective boxes. This information can be used to access the Web application if you forget the password.
4. Click Save to retain your settings.

The screenshot shows a web application interface for account settings. On the left is a vertical sidebar with three buttons: 'NSM Settings' (gear icon), 'NSM Pool' (pool icon), and 'Account Settings' (lock icon, which is highlighted). The main content area is titled 'Account Settings' and has a light gray background. It contains two sections. The first section, 'Change Password', has a label 'Change Password' followed by two input fields: 'Enter new password' and 'Re-enter new password', both containing six asterisks. The second section, 'Add/Edit Security Question', has a label 'Add/Edit Security Question' followed by two input fields: 'Enter security question' (containing the text 'Please read manual for first time pa') and 'Answer to security question'. At the bottom of the main area are two buttons: 'Save' and 'Cancel'.

Figure 7. Account Settings Screen

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years:
 - Fiber optic products
 - TW3000 Series unshielded twisted pair (UTP) transmission products
 - CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models
- Three years:
 - Pelco-branded fixed camera models (CCC1390H Series, C10DN Series, C10CH Series, IP3701H Series, and IX Series)
 - EH1500 Series enclosures
 - Spectra® IV products (including Spectra IV IP)
 - Camclosure® Series (IS, ICS, IP) integrated camera systems
 - DX Series digital video recorders, DVR5100 Series digital video recorders, Digital Sentry® Series hardware products, DVX Series digital video recorders, and NVR300 Series network video recorders
 - Endura® Series distributed network-based video products
 - Genex® Series products (multiplexers, server, and keyboard)
 - PMCL200/300/400 Series LCD monitors
- Two years:
 - Standard varifocal, fixed focal, and motorized zoom lenses
 - DF5/DF8 Series fixed dome products
 - Legacy® Series integrated positioning systems
 - Spectra III™, Spectra Mini, Spectra Mini IP, Esprit®, ExSite®, and PS20 scanners, including when used in continuous motion applications.
 - Esprit Ti and Ti2500 Series thermal imaging products
 - Esprit and WW5700 Series window wiper (excluding wiper blades).
 - CM6700/CM6800/CM9700 Series matrix
 - Digital Light Processing (DLP®) displays (except lamp and color wheel). The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
 - Intelli-M® eIDC controllers
- One year:
 - Video cassette recorders (VCRs), except video heads. Video heads will be covered for a period of six months.
- Six months:
 - All pan and tilts, scanners, or preset lenses used in continuous motion applications (preset scan, tour, and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to a Pelco designated location. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental, or consequential damages (including loss of use, loss of profit, and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, sales order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product that does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

To expedite parts returned for repair or credit, please call Pelco at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair) and designated return location.

All merchandise returned for credit may be subject to a 20 percent restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid.

12-23-08

 The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.

REVISION HISTORY

Manual #	Date	Comments
C4603M	4/09	Original version.
C4603M-A	5/09	Changed IP addresses; replaced Figures 3, 5, and 6; modified information under Network Settings; added reboot and refresh information; and added a note on recording schedules.

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