

# DX8100-ISCI SCSI

# and DX9200HDDI

# Installation Manual

DX8100 Digital Video Recorder

C2635M (1/07)

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# Introduction

Welcome to the external video storage upgrade for the DX8100 Series digital video recorder (DVR). The video storage upgrade consists of two products: the DX8100-ISCI SCSI card and the DX9200HDDI Series IDE video storage unit. These two items are ordered and shipped separately.

- The DX8100-ISCI SCSI card connects the DX9200HDDI to the DX8100 using a 50- to 68-pin SCSI cable. The SCSI cable is included with the DX9200HDDI.
- The DX9200HDDI contains the hard drives that allow you to increase the DX8100's storage capacity up to 3.5 TB. The DX9200HDDI option is available for 8- and 16-channel DX8100 systems.

The DX9200HDDI is used for offline backup or realtime video storage. When used as a real time storage device, the frame rate of each channel on the DX8100 must adhere to the following:

- 8-channel DVRs: Less than or equal to 30 images per second (ips).
- **16-channel DVRs:** Less than or equal to 24 ips. Setting the frame rate above 24 ips for a 16-channel DVR will result in skipped frames and significant performance degradation.

This document describes how to install the DX8100-ISCI SCSI card, configure the DX9200HDDI RAID operation, connect the DX8100 to the DX9200HDDI, and configure the DX8100 to operate with the 9200HDDI video storage unit. For information about installing the DX9200HDDI, refer to the DX9200HDDI Series IDE Video Storage Unit Installation/Operation manual.

This section is organized into the following topics:

- Parts List on this page
- Tools Needed on page 8
- Other DX8100 Optional Accessories on page 8

The DX8100-ISCI SCSI card and the DX9200HDDI Series storage unit are shipped individually. Figure 1 shows the DX8100-ISCI SCSI card and the DX9200HDDI Series video storage unit.



Figure 1. DX8100 SCSI Card and DX9200HDDI Storage Unit

### **PARTS LIST**

In addition to this document, Table A lists the items that are included in the DX8100-ISCI kit. For information about installing the DX9200HDDI, refer to the DX9200HDDI Series IDE Video Storage Unit Installation/Operation manual.

#### Table A. DX8100-ISCI Kit Items

Qty	Description	Purpose	
1	Adaptec <sup>®</sup> SCSI Card 39160	Provides interface transfer of data between DX8100 and the DX9200HDDI video storage unit.	
1	Installation manual         Describes how to install the DX8100-ISCI SCSI card.		

## **TOOLS NEEDED**

#### Table B. Required Tools

Qty	Description	
1	Phillips screwdriver #1 (nonmagnetic)	
1	Properly grounded electrostatic discharge (ESD) wrist strap and mat	
4	4 Small containers for storing screws (optional)	

### **OTHER DX8100 OPTIONAL ACCESSORIES**

The DX8108 base unit comes with an 8-channel Capture Card and the DX8116 base unit includes a 16-channel Capture Card.

The DX8100-ISCI option is not supported for the DX8124 or DX8132 models. These models use two Capture Cards that are installed in PCI slots 2 and 3. In this case, no available slots remain to install the DX8100-ISCI option, which includes a DX8100-ISCI SCSI card that is installed in slot 2.

The table below describes other DX8100 optional accessories that can be installed with the DX8100-ISCI option. For a list of the current DX8100 options, refer to the DX8100 Product Specification Sheet. If an option is not listed in Table C, the option is not supported in combination with the options described in this manual.

Option Number	Description	
DX8108-AUD	The DX8100 8-channel audio input card audio card is installed on a 16-channel Capture Card. In this case, only audio inputs 1 to 8 are available for recording. Audio channels 9 to 16 can be configured, but audio data is not recorded.	
DX8116-AUD	ne DX8100 16-channel audio input card audio card cannot be installed on an 8-channel apture Card.	
DX8100-512RAM	DX8100 memory upgrade from 512 MB to 1 GB.	
DX9200HDDI	External RAID storage expansion unit. This option is not available with DX8124 or DX8132 models.	
KBD300A	KBD300A universal keyboard (requires KBDKIT).	
KBDKIT (-X)	Remote keyboard wiring kit (X = 220 VAC).	
VSI-PRO	AVE video serial interfaces for ATM/POS. The VSI-PRO and required cabling is available from AVE.	

#### Table C. DX8100 Optional Accessories

# Installing the DX8100-ISCI SCSI Card

This section describes how to install the DX8100-ISCI SCSI card, and is organized into the following topics:

- Getting Ready on this page
- Preparing the DX8100 for SCSI Card Installation on page 10
- Moving the Main Capture Card to Slot 3 on page 12
- Installing the DX8100 SCSI Card on page 13
- Reassembling the Unit on page 14

### **GETTING READY**

Before you install the DX8100-ISCI SCSI card, familiarize yourself with the instructions in this manual.

The steps to install the external video storage upgrade are summarized as follows:

- 1. Unpack the DX8100-ISCI kit and check that you have all the necessary kit components. For information about components supplied with the DX8100-ISCI kit, refer to Parts List on page 7.
- 2. Verify that you have the required tools to install the SCSI card. For information about the tools required to install the SCSI card, refer to Tools Needed on page 8.
- 3. Shut down the DX8100 Series DVR. For information about shutting down the DX8100, refer to the DX8100 Installation Manual, Operation and Programming manual, or DX8100 Server online Help.
- 4. Unplug the power cord from the wall socket.
- WARNING: It is critical that the unit be unplugged for your safety. You must remove the power cord because current continues to flow through the DX8100 even when the unit is off. Remove the power cord from the wall socket first, and then from the rear of the DVR.



Figure 2. Removing Power Cord from Wall

5. Remove the power cord from the back of the DX8100.



Figure 3. Removing Power Cord from DX8100

6. Ensure that the DX8100 Series DVR and all of its components are protected against ESD. Before handling any electronic components, you should take steps to ground yourself properly so that any built-up static electric charges are dissipated away from the unit. The most effective method for combating ESD is to use a properly grounded wrist strap. Refer to Figure 4.

**NOTE:** If you do not have access to a grounded wrist strap, you can discharge any built-up static by periodically touching an unpainted section of the chassis.



Figure 4. ESD Protection

- 7. Move the Main Capture Card to slot 3.
- 8. Install the DX8100-ISCI SCSI card and cabling.
- 9. Install the DX9200HDDI.
  - For information about installing the DX9200HDDI, refer to the DX9200HDDI Series IDE Video Storage Unit Installation/Operation manual.
  - For information about configuring the DX9200HDDI, refer to Setting Up the DX9200HDDI on page 15.
  - For information about connecting the DX8100 to the DX9200HDDI, refer to Connecting the DX8100 to the DX9200HDDI on page 35.

## **PREPARING THE DX8100 FOR SCSI CARD INSTALLATION**

This section describes how to access the DX8100 interior. For information about mounting the DX8100 in a rack, refer to the DX8100 Installation manual.

#### **OPENING THE DX8100 CHASSIS**

If the DX8100 is mounted in a rack, the DX8100 must be removed from the rack. Two people might be required to lift and remove the DX8100.

To move the DX8100 to an area that will provide full access to the DX8100's internal components do the following:

WARNING: Make sure the unit is turned off and you are wearing a properly grounded ESD wrist strap before attempting to open the DX8100 chassis cover. For information about shutting down the unit, refer to Installing the DX8100-ISCI SCSI Card on page 9.

- 1. Disconnect any cables or connections that may restrict access or interfere with the removal of the unit.
- 2. (If applicable) Unscrew the fasteners that are securing the unit in the rack, and carefully lift the unit out of the rack.
- 3. Place the DX8100 on a flat surface with ample workspace.

WARNING: The chassis assembly includes parts with sharp edges. To avoid injury, use caution when working in and around the DX8100's chassis and components.

- 4. Using a Phillips screwdriver, remove the chassis cover, and do the following:
  - a. Remove the top two screws on the left and right side panels of the DX8100. Refer to Figure 5
  - b. Remove the four silver screws (on the top of the unit) fastening the cover to the back of the unit. Refer to Figure 5.
  - c. Carefully remove the chassis cover by sliding it back and up. Set aside the cover.



Figure 5. Removing Chassis Cover

#### **UNDERSTANDING THE DX8100 COMPONENT LAYOUT**

Figure 6 and Table D provides information about the DX8100's slot assignments and major components. (Slots on the motherboard are labeled differently.)



Figure 6. DX8100 Interior

Table D.	DX8100 Slot Assignments and	Major Components
----------	-----------------------------	------------------

ltem	Description	ltem	Description
0	Slot 1: PTZ card installed in PCI connector	8	CPU
2	Slot 2: Capture Card installed in PCI connector	9	Power supply
3	Slot 3: PCI connector	10	DIMM sockets (RAM)
4	Slot 4: x1 PCI Express connectors	0	DVD-RW
5	Slot 5: x1 PCI Express connectors	12	Hard drive bay
6	Slot 6: x16 PCI Express connector	13	Front cross-brace
0	Slot 7: Optional Expansion Unit I/O card	14	Rear cross-brace

## **MOVING THE MAIN CAPTURE CARD TO SLOT 3**

In the DX8108 and DX8116 base DVRs, the main Capture Card is installed in slot 2. To install the DX8100-ISCI SCSI card, the main Capture Card must be removed from slot 2 and re-installed into slot 3. This step is necessary because the DX8100-ISCI SCSI card must be physically installed in slot 2.

For information about preparing the DX8100 for the DX8100-ISCI SCSI card installation, refer to Preparing the DX8100 for SCSI Card Installation on page 10.

Move the main Capture Card from slot 2 to slot 3:

- 1. To ready the main Capture Card for removal, do the following:
  - a. Remove the rear cross-brace.
  - b. Remove the slot cover for slot 3 and retain the screw.
  - c. Remove the bracket screw that secures the main Capture Card in slot 2.
  - d. Disconnect the 32-pin ribbon cable.
  - e. Disconnect the 5-wire TV/Audio cable and lay the cable over the DX8100 I/O Card.
  - f. Disconnect the 7-wire TV/Audio cable.
  - g. Disconnect the 2-wire audio cable.



Figure 7. Readying Main Capture Card for Removal

- 2. To move the main Capture Card, do the following:
  - a. Remove the Capture Card from slot 2 and firmly seat the Capture Card in the PCI connector for slot 3.
  - b. Secure the Capture Card bracket with the screw.
  - c. Reconnect the 5-wire TV/Audio cable.
  - d. Reconnect the 7-wire TV/Audio cable.
  - e. Reconnect the 2-wire audio cable.



Figure 8. Moving Main Capture Card

## **INSTALLING THE DX8100 SCSI CARD**

The DX8100-ISCI SCSI card is shipped separately. For information about the other DX8100 SCSI kit components, refer to Parts List on page 7. The SCSI card is installed in the PCI slot 2 on the motherboard.

To Install the DX8100-ISCI SCSI card:

- 1. Verify that the main Capture Card is installed in slot 3. For information about moving the main Capture Card from slot 2 to slot 3, refer to Moving the Main Capture Card to Slot 3 on page 12.
- 2. To install the SCSI card into slot 2, do the following:
  - a. Firmly seat the DX8100-ISCI SCSI card in the PCI connector for slot 2.
  - b. Secure the DX8100-ISCI SCSI card bracket with the screw removed from slot 3.
  - c. Reconnect the 32-pin ribbon cable to the first 32-pin connector (on the main Capture Card) in slot 3.
- 3. Replace the rear cross-brace.
- 4. This completes installation of the SCSI card. Next, reassemble the DX8100 and then install the DX9200HDDI. For information about reassembling the unit, refer to Reassembling the Unit on page 14. For information about installing the DX8100HDDI, refer to Setting Up the DX9200HDDI on page 15.



Figure 9. Installing the SCSI Card

## **REASSEMBLING THE UNIT**

1. Replace the chassis cover using the screws you removed from the side and rear of the unit. Refer to Figure 10.



Figure 10. Replacing Chassis Cover

- 2. Attach the silver product label that came with your upgrade kit to the inside of your DVR's front door.
  - a. Remove the paper backing from the product label.
  - b. Carefully place the label, adhesive-side down, on a free section of the inside of the door.
  - c. Press down firmly to ensure that the label properly adheres to the inside of the door.

**NOTE:** In the event that your unit or its components require service, specific labels must be present and appropriately affixed to the unit's door. Pelco product support personnel use these labels to identify the exact components installed in your system. A separate product label is required for each upgrade component installed on the DX8100.

- 3. Reinstall the unit in a rack enclosure if necessary, and reconnect all cables and peripheral equipment you removed earlier.
- 4. The final step is to install the DX9200HDDI. For information about installing the DX8100HDDI, refer to Setting Up the DX9200HDDI on page 15.

# Setting Up the DX9200HDDI

This section describes how to install the hard drives in the DX9200HDDI and configure the DX9200HDDI to operate with the DX8100 DVR. After the DX9200HDDI is configured, the next step is to connect the DX9200HDDI to the DX8100 DVR, and finally, configure the DX8100 DVR's Basic Input Output System (BIOS) to recognize the DX9200HDDI. For information about installing additional drives, refer to the documentation that accompanies the DX9200HDDI.

## **INSTALLING THE HARD DRIVES**

To install the hard drives in the DX9200HDDI:

- 1. Do the following:
  - a. Remove the hard drive tray by lowering the panel that houses the LCD display.
  - b. Push down on the release latch to remove the tray from the DX9200HDDI.
- 2. To ready the hard drive for installation, do the following:
  - a. Remove the hard drives from any protective packaging.
  - b. Set the jumper for each hard drive to Master. For information about setting the jumper, refer to the hard drive's manufacturer's instructions.
  - c. Insert the power plug into the power connection on the hard drive.
  - d. Connect the external IDE cable to the connector on the hard drive.



Figure 11. DX9200HDDI Hard Drive Tray

- 3. Place the hard drive into the tray, be sure not to pinch or damage the external IDE cable. Secure the hard drive with four Phillips screws. (Size 5 mm, #32 flat head).
- 4. Slide the tray into an empty slot until it clicks. Push the lever down until it locks in place. Repeat these steps for any remaining hard drives.

## **CONFIGURING THE DX9200HDDI**

The DX9200HDDI is configured to operate in one of two ways:

- **RAID 5:** RAID 5 (redundant array of independent disks) provides protection in case a drive fails as the missing data can be reconstructed from the data on the available parity drive.
- **RAID 5 with Hot Spare:** RAID 5 with Hot Spare adds a level of additional protection as a "hot spare drive," which is configured and added to the RAID array.

You use the DX9200HDDI control panel to configure the unit. Figure 12 shows the DX9200HDDI control panel. The blue keys on the control panel are used to configure the DX9200HDDI.



Table E describes the function of the control panel keys that are described in the procedures in this section.

ltem	Label	Description	
0	CTRL	se the Control button to view the configuration of the storage unit, such as the memory size, firmware ersion, and the brand and capacity of the hard drives.	
2	ENC	e the ENC button to see the operating status of the storage unit, such as the hard drive status, apperature, power supplies, voltage, and cooling fans.	
3	(LCD Screen)	ed the LCD screen to view configuration menus, DX9200HDDI settings, and operational status.	
4		se the Up arrow/Quit button in conjunction with the CTRL and ENC buttons. Press to scroll through the formation on the LCD display, to move up through each menu, or to go back to the previous menu.	
5	▼	Jse the Down arrow/Info button in conjunction with the CTRL and ENC buttons. Press to scroll through the nformation on the LCD display or to move down through each menu, or go forward to the next menu.	
6	~	Use the Select/C-F button to enter the option you have selected or to change the temperature display from Celsius to Fahrenheit.	
0	EXIT	Use the Exit/Alarm reset button to return to the previous menu or to stop an alarm.	

#### Table E. DX9200HDDI Control Panel

For information about the DX9200HDDI, refer to the DX9200HDDI Series IDE Video Storage Unit Installation/Operation manual. Figure 1 shows the SCSI card.

#### **CONFIGURING A SINGLE RAID LEVEL 5 ARRAY**

To configure a single RAID Level 5 array:

- 1. Power up the DX9200HDDI. For information about powering up the DX9200HDDI, refer to the DX9200HDDI Series IDE Video Storage Unit installation/operation manual.
- 2. On the DX9200HDDI control panel, do the following:
  - a. Press the CTRL button. The TO CONTROLLER PRESS ANY KEY message is displayed on the LCD screen.
  - b. Press 🗸 . The Enter Password prompt is displayed.
  - c. Press ✓ to enter 00000000 (default password).
  - d. Press 🗸 . The Main menu is displayed.



Figure 13. Accessing the Main Menu

- 3. To configure a single array, do the following:
  - a. Press  $\blacktriangle \nabla$  and scroll to 2 RAID Params.
  - b. Press ✓. The 2 RAID Params menu is displayed.
  - c. Press **A V** to scroll to 21 Array 1.
  - d. Press ✓. The 21 Array 1 menu is displayed.
  - e. Press  $\blacktriangle \nabla$  and scroll to 211 Re-Conf RAID.
  - f. Press 🗸 . The 211 Re-Conf RAID menu is displayed.
  - g. Press  $\blacktriangle \nabla$  to scroll to YES.

h. Press 🗸 to select YES. The entry is confirmed and the 21 Array 1 menu item is redisplayed. Figure 14 shows the button selections and the menu choices.



Figure 14. Configuring a Single RAID Level 5 Array

- 4. To select the RAID Level for the array, do the following:
  - a. Press  $\blacktriangle \nabla$  to scroll to 212 RAID Level.
  - b. Press ✓. The 212 RAID Level menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 5.
  - d. Press ✓ to select 5. The 21 Array 1 menu is redisplayed.



Figure 15. Choosing the RAID Level

- 5. To specify the number of hard drives in the array, do the following:
  - a. Press **A V** to scroll to 213 Disk Number.
  - b. Press ✓. The 213 Disk Number menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to the number of disks that are installed.
  - d. Press  $\checkmark$  to select the number of disks.



Figure 16. Specifying the Number of Hard Drives in the Array

- 6. To update the NVRAM with the new settings, do the following:
  - a. Press Exit until the Main menu is displayed.
  - b. Press  $\blacktriangle \nabla$  to scroll to 6 NVRAM.
  - c. Press ✓. The 6 NVRAM menu is displayed.
  - d. Press **A V** to scroll to 61 Update NVRAM.
  - e. Press 🗸 . The 61 Update NVRAM menu is displayed.
  - f. Press  $\blacktriangle \nabla$  to scroll to YES.
  - g. Press ✓ to select YES. The 6 NVRAM menu is redisplayed.



Figure 17. Returning to the Main Menu

- 7. To restart the DX9200HDDI, do the following:
  - a. Press  $\blacktriangle \nabla$  to scroll to 63 Restart.
  - b. Press 🗸 . The 63 Restart menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to YES.
  - d. Press  $\checkmark$  to select YES. The initialization process starts.



Figure 18. Restarting DX9200HDDI

The number of drives installed, any empty bays, and the RAID initialization status are displayed in the LCD screen. The array initialization process starts and may take several hours to complete. Figure 19 shows the Init ARY1 window. Once the initialization process is completed, you can power down the DX9200HDDI.Table F on page 20 describes the status information displayed in the Init ARY1 window.



Figure 19. Single RAID Level 5 Array Initialization Status

#### **Table F.** Single RAID Level 5 Array Initialization Status Window

Item Description	
0	The number of drives installed
2	Empty bay
3	RAID initialization status

- 8. After the DX9200HDDI single array is initialized, the DX9200HDDI must be connected to the DX8100, then the DX8100 must be configured to recognize the external storage device.
  - For information about connecting the DX9200HDDI to the DX8100, refer Connecting the DX8100 to the DX9200HDDI on page 35.
  - For information about setting up the DX8100 to recognize the DX9200HDDI, Configuring the DX8100 to Access the DX9200HDDI on page 36.

#### **CONFIGURING A SINGLE RAID LEVEL 5 ARRAY WITH HOT SPARE**

To configure a single RAID Level 5 array with hot spare:

- 1. Power up the DX9200HDDI. For information about powering up the DX9200HDDI, refer to the DX9200HDDI Series IDE Video Storage Unit installation/operation manual.
- 2. On the DX9200HDDI control panel, do the following:
  - a. Press the CTRL button. The TO CONTROLLER PRESS ANY KEY message is displayed on the LCD screen.
  - b. Press 🗸 . The Enter Password prompt is displayed.
  - c. Press ✓ to enter 00000000 (default password).
  - d. Press ✓. The Main menu is displayed.
- 3. To configure a single array, do the following:
  - a. Press  $\blacktriangle \nabla$  and scroll to 2 RAID Params.
  - b. Press 🗸 . The 2 RAID Params menu is displayed.
  - c. Press ▲ ▼ to scroll to 21 Array 1.
  - d. Press 🗸 . The 21 Array 1 menu is displayed.
  - e. Press  $\blacktriangle \nabla$  and scroll to 211 Re-Conf RAID.
  - f. Press 🗸 . The 211 Re-Conf RAID menu is displayed.
  - g. Press  $\blacktriangle \nabla$  to scroll to YES.
  - h. Press 🗸 to select YES. The entry is confirmed and the 21 Array 1 menu item is redisplayed.
- 4. To select the RAID Level for the array, do the following:
  - a. Press  $\blacktriangle \nabla$  to scroll to 212 RAID Level.
  - b. Press ✓. The 212 RAID Level menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 5.
  - d. Press ✓ to select 5. The 21 Array 1 menu redisplayed.
- 5. To specify the number of hard drives in the array and create one hot spare, do the following:
  - a. Calculate the number of drives in the array by subtracting one hard drive from the total number of drives in the array. For example, if the total number of hard drives is 13, then 13 1 = 12 hard drives.
  - b. Press  $\blacktriangle \nabla$  to scroll to 213 Disk Number.
  - c. Press ✓. The 213 Disk Number The 213 Disk Number menu item is displayed.
  - d. Press  $\blacktriangle \nabla$  to scroll to the number representing the quantity of disks calculated in step 5 (a).

For example, there are 13 hard drives installed and the configuration is a RAID 5. In this case, there are 12 drives in the array and the DX9200HDDI will automatically recognize the 13th drive as the spare drive and display an "S" to indicate the location of the hot spare.

- 6. To update the NVRAM with the new settings, do the following:
  - a. Press Exit until the Main menu is displayed.
  - b. Press  $\blacktriangle \nabla$  to scroll to 6 NVRAM.
  - c. Press ✓. The 6 NVRAM menu is displayed.
  - d. Press **A V** to scroll to 61 Update NVRAM.
  - e. Press ✓. The 61 Update NVRAM menu is displayed.
  - f. Press  $\blacktriangle \nabla$  to scroll to YES.
  - g. Press  $\checkmark$  to select YES. The 6 NVRAM menu is redisplayed.
- 7. To restart the DX9200HDDI, do the following:
  - a. Press  $\blacktriangle \nabla$  to scroll to 63 Restart.
  - b. Press 🗸 . The 63 Restart menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to YES.
  - d. Press  $\checkmark$  to select YES. The initialization process starts.

The number of drives installed, any empty bays, and the RAID initialization status are displayed in the DX9200HDDI window. The array initialization process starts and may take several hours to complete.

- 8. To complete the installation process, after the DX9200HDDI single array is initialized, the DX9200HDDI must be connected to the DX8100 and configured to recognize the DX9200HDDI.
  - For information about connecting the DX9200HDDI to the DX8100, refer Connecting the DX8100 to the DX9200HDDI on page 35.
  - For information about setting up the DX8100 to recognize the DX9200HDDI, Configuring the DX8100 to Access the DX9200HDDI on page 36.

#### **CONFIGURING TWO RAID LEVEL 5 ARRAYS**

To configure two RAID Level 5 Arrays:

- 1. Power up the DX9200HDDI. For information about powering up the DX9200HDDI, refer to the DX9200HDDI Series IDE Video Storage Unit installation/operation manual.
- 2. On the DX9200HDDI control panel, do the following:
  - a. Press the CTRL button. The TO CONTROLLER PRESS ANY KEY message is displayed on the LCD screen.
  - b. Press ✓. The Enter Password prompt is displayed.
  - c. Press ✓ to enter 00000000 (default password).
  - d. Press ✓. The Main menu is displayed.
- 3. To configure array 1, do the following:
  - a. Press  $\blacktriangle \nabla$  and scroll to 2 RAID Params.
  - b. Press ✓. The 2 RAID Params menu is displayed.
  - c. Press  $\blacktriangle \nabla$  and scroll to 21 array 1.
  - d. Press ✓. The 21 Array 1 menu is displayed.
  - e. Press  $\blacktriangle \nabla$  and scroll to 211 Re-Conf RAID.
  - f. Press ✓. The 211 Re-Conf RAID menu is displayed.
  - g. Press  $\blacktriangle \nabla$  to scroll to YES.
  - h. Press 🗸 to select YES. The entry is confirmed and the 21 Array 1 menu item is redisplayed.
- 4. To select the RAID Level for the array, do the following:
  - a. Press 🔺 🔻 to scroll to 212 RAID Level.
  - b. Press ✓. The 212 RAID Level menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 5.
  - d. Press 🗸 to select 5. The 21 Array 1 menu item is redisplayed.
- 5. To specify the number of hard drives in array 1, do the following:
  - a. Calculate the number of drives in each array by dividing the total number of drives installed by two. For example, if the total number of hard drives is 12, then 12/2 = 6 hard drives per array.
  - b. From the 21 Array 1 menu, press ▲ ▼ to scroll to 213 Disk Number.
  - c. Press ✓. The 213 Disk Number menu is displayed.
  - d. Press  $\blacktriangle \nabla$  to scroll to the number of disks for array 1.

For example, if there are 12 hard drives installed and the RAID level is 5, select 6. By default, the total number of drives is divided evenly between array 1 and array 2.

e. Press  $\checkmark$  to select the number of disks for array 1.

- 6. Press Exit until the Main menu is displayed.
- 7. To configure array 2, do the following:
  - a. Press  $\blacktriangle \nabla$  and scroll to 2 RAID Params.
  - b. Press ✓. The 2 RAID Params menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 22 Array 2.
  - d. Press ✓. The 22 Array 2 menu is displayed.
  - e. Press  $\blacktriangle \nabla$  and scroll to 221 Re-Conf RAID.
  - f. Press 🗸 . The 221 Re-Conf RAID menu is displayed.
  - g. Press  $\blacktriangle \nabla$  to scroll to YES.
  - h. Press 🗸 to select YES. The entry is confirmed and the 22 Array 2 menu is redisplayed.
- 8. To select the RAID Level for the array 2, do the following:
  - a. Press  $\blacktriangle \nabla$  to scroll to 222 RAID Level.
  - b. Press ✓. The 222 RAID Level menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 5.
  - d. Press 🗸 to select 5. The 22 Array 2 menu is redisplayed.
- 9. To specify the number of hard drives in the array 2, do the following:
  - a. From the 22 Array 2 menu, press **A V** to scroll to 223 Disk Number.
  - b. Press 🗸 . The 223 Disk Number menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to the number of disks for array 2.

For example, if there are 12 hard drives installed and the RAID level is 5, select 6. By default, the total number of drives is divided evenly between array 1 and array 2.

- d. Press 🗸 to select the number of drives. The 22 Array 2 menu is redisplayed.
- 10. To update the NVRAM with the new settings, do the following:
  - a. Press Exit until the Main menu is displayed.
  - b. Press  $\blacktriangle \nabla$  to scroll to 6 NVRAM.
  - c. Press ✓. The 6 NVRAM menu is displayed.
  - d. Press **A V** to scroll to 61 Update NVRAM.
  - e. Press 🗸 . The 61 Update NVRAM menu is displayed.
  - f. Press  $\blacktriangle \nabla$  to scroll to YES.
  - g. Press 🗸 to select YES. The 6 NVRAM menu is redisplayed.

- 11. To start the initialization process, do the following:
  - a. Press  $\blacktriangle \nabla$  to scroll to 63 Restart.
  - b. Press 🗸 . The 63 Restart menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to YES.
  - d. Press ✓ to select YES. The initialization process starts.

The number of drives installed, any empty bays, and the RAID initialization status are displayed in the DX9200HDDI window. The array initialization process starts and may take several hours to complete.

Once the initialization process is completed, the array must be sliced.

To slice the array:

- 1. On the DX9200HDDI control panel, do the following:
  - a. Press the CTRL button to display TO CONTROLLER PRESS ANY KEY.
  - b. Press 🗸 . The Enter Password prompt is displayed.
  - c. Press ✓ and enter 00000000 (default password).
  - d. Press ✓. The Main menu is displayed.
- 2. Press  $\blacktriangle \nabla$  to scroll to 3 SCSI Params, and do the following:
  - a. Press 🗸 . The 3 SCSI Params menu is displayed.
  - b. Press  $\blacktriangle \nabla$  to scroll to 32 Secondary SCS.
  - c. Press ✓. The 32 Secondary SCS menu is displayed.
  - d. Press  $\blacktriangle \nabla$  to scroll to 326 Lun Map.
  - e. Press ✓. The 326 Lun Map menu is selected.
  - f. Press  $\blacktriangle \nabla$  to navigate to Lun 0.
  - g. Press  $\checkmark$  to select the entry.
- 3. To select the array that will be sliced, do the following:
  - a. Press  $\blacktriangle \nabla$  to scroll to Array 2.
  - b. Press 🗸 . The Array 2 menu is selected.
  - c. Press  $\blacktriangle \nabla$  to scroll to Slice 0.
  - d. Press  $\checkmark$  to select the entry.
- 4. Press Exit until the Main menu is displayed.

- 5. To update the NVRAM with the new settings, do the following:
  - a. From the Main menu, press  $\mathbf{A} \mathbf{\nabla}$  to scroll to 6 NVRAM.
  - b. Press ✓. The 6 NVRAM menu is displayed.
  - c. Press ✓ to select 61 Update NVRAM.
  - d. Press  $\blacktriangle \nabla$  to scroll to YES.
  - e. Press  $\checkmark$  to select YES.
  - f. Press  $\blacktriangle \nabla$  to scroll to 63 Restart.
  - g. Press 🗸 . The 63 Restart menu is displayed.
  - h. Press  $\blacktriangle \nabla$  to scroll to YES.
  - i. Press ✓. The DX9200HDDI restarts.
- 6. To complete the installation process after the DX9200HDDI arrays are sliced, the DX9200HDDI must be connected to the DX8100 and configured to recognize the DX9200HDDI.
  - For information about connecting the DX9200HDDI to the DX8100, refer Connecting the DX8100 to the DX9200HDDI on page 35.
  - For information about setting up the DX8100 to recognize the DX9200HDDI, Configuring the DX8100 to Access the DX9200HDDI on page 36.

#### **CONFIGURING TWO RAID LEVEL 5 ARRAYS WITH HOT SPARE**

To configure two RAID Level 5 Arrays with one hot spare:

- 1. Power up the DX9200HDDI. For information about powering up the DX9200HDDI, refer to the DX9200HDDI Series IDE Video Storage Unit installation/operation manual.
- 2. On the DX9200HDDI control panel, do the following:
  - a. Press the CTRL button. The TO CONTROLLER PRESS ANY KEY message is display on the LCD screen.
  - b. Press ✓. The Enter Password prompt is displayed.
  - c. Press ✓ to enter 00000000 (default password).
  - d. Press ✓. The Main menu is displayed.
- 3. To configure array 1, do the following:
  - a. Press  $\blacktriangle \nabla$  and scroll to 2 RAID Params.
  - b. Press ✓. The 2 RAID Params menu is displayed.
  - c. Press  $\blacktriangle \nabla$  and scroll to 21 array 1.
  - d. Press ✓. The 21 Array 1 menu is displayed.
  - e. Press  $\blacktriangle \nabla$  and scroll to 211 Re-Conf RAID.
  - f. Press ✓. The 211 Re-Conf RAID menu is displayed.
  - g. Press  $\blacktriangle \nabla$  to scroll to YES.
  - h. Press 🗸 to select YES. The entry is confirmed and the 21 Array 1 menu item is redisplayed.
- 4. To select the RAID Level for the array, do the following:
  - a. Press 🔺 🔻 to scroll to 212 RAID Level.
  - b. Press ✓. The 212 RAID Level menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 5.
  - d. Press ✓ to select 5. The 21 Array 1 menu item is redisplayed.
- 5. To specify the number of hard drives in array 1, do the following:
  - a. Calculate the number of drives in the array by subtracting one hard drive from the total number of drives in the array. For example, if the total number of hard drives is 13, then 13 1 = 12 hard drives.
  - b. From the 21 Array 1 menu, press  $\blacktriangle \nabla$  to scroll to 213 Disk Number.
  - c. Press ✓. The 213 Disk Number menu is displayed.
  - d. Press  $\blacktriangle \nabla$  to scroll to the number of disks for array 1.
    - For example, if there are 13 hard drives installed and the RAID level is 5 and there are two arrays, select 6. The DX9200HDDI will automatically recognize drive 13 as the spare drive.
  - e. Press  $\checkmark$  to select the number of disks for array 1.
- 6. Press Exit until the Main menu is displayed.

- 7. To configure array 2, do the following:
  - a. Press  $\blacktriangle \nabla$  and scroll to 2 RAID Params.
  - b. Press ✓. The 2 RAID Params menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 22 Array 2.
  - d. Press ✓. The 22 Array 2 menu is displayed.
  - e. Press  $\blacktriangle \nabla$  and scroll to 221 Re-Conf RAID.
  - f. Press 🗸 . The 221 Re-Conf RAID menu is displayed.
  - g. Press  $\blacktriangle \nabla$  to scroll to YES.
  - h. Press 🗸 to select YES. The entry is confirmed and the 22 Array 2 menu is redisplayed.
- 8. To select the RAID Level for the array 2, do the following:
  - a. Press  $\blacktriangle \nabla$  to scroll to 222 RAID Level.
  - b. Press ✓. The 222 RAID Level menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 5.
  - d. Press 🗸 to select 5. The 22 Array 2 menu is redisplayed.
- 9. To specify the number of hard drives in the array 2, do the following:
  - a. For example, if the total number of hard drives is 13, then 13 1 = 12 hard drives. Since 6 drives are assigned to array 1, the remaining 6 drives are assigned to array 2.
  - b. From the 22 Array 2 menu, press **A V** to scroll to 223 Disk Number.
  - c. Press ✓. The 223 Disk Number menu is displayed.
  - d. Press  $\blacktriangle \nabla$  to scroll to the number of disks for array 2.

For example, if there are 13 hard drives installed, the RAID level is 5, and there are two arrays, select 6. The DX9200HDDI will automatically recognize drive 13 as the spare drive.

For example, if there are 13 hard drives installed and the RAID level is 5, select 6.

- e. Press ✓ to select the number of drives. The 22 Array 2 menu is redisplayed.
- 10. To update the NVRAM with the new settings, do the following:
  - a. Press Exit until the Main menu is displayed.
  - b. Press  $\blacktriangle \nabla$  to scroll to 6 NVRAM.
  - c. Press ✓. The 6 NVRAM menu is displayed.
  - d. Press  $\blacktriangle \nabla$  to scroll to 61 Update NVRAM.
  - e. Press 🗸 . The 61 Update NVRAM menu is displayed.
  - f. Press  $\blacktriangle \nabla$  to scroll to YES.
  - g. Press ✓ to select YES. The 6 NVRAM menu is redisplayed.

- 11. To start the initialization process, do the following:
  - a. Press  $\blacktriangle \nabla$  to scroll to 63 Restart.
  - b. Press 🗸 . The 63 Restart menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to YES.
  - d. Press 🗸 to select YES. The initialization process starts.

The number of drives installed, any empty bays, and the RAID initialization status are displayed in the DX9200HDDI window. The array initialization process starts and may take several hours to complete.

Once the initialization process is completed, the array must be sliced.

To slice the array:

- 1. On the DX9200HDDI control panel, do the following:
  - a. Press the CTRL button to display TO CONTROLLER PRESS ANY KEY.
  - b. Press 🗸 . The Enter Password prompt is displayed.
  - c. Press ✓ and enter 00000000 (default password).
  - d. Press 🗸 . The Main menu is displayed.
- 2. Press  $\blacktriangle \nabla$  to scroll to 3 SCSI Params, and do the following:
  - a. Press 🗸 . The 3 SCSI Params menu is displayed.
  - b. Press  $\blacktriangle \nabla$  to scroll to 32 Secondary SCS.
  - c. Press ✓. The 32 Secondary SCS menu is displayed.
  - d. Press  $\blacktriangle \nabla$  to scroll to 326 Lun Map.
  - e. Press 🗸 . The 326 Lun Map menu is selected.
  - f. Press  $\blacktriangle \nabla$  to navigate to Lun 0.
  - g. Press  $\checkmark$  to select the entry.
- 3. To select the array that will be sliced, do the following:
  - a. Press  $\blacktriangle \nabla$  to scroll to Array 2.
  - b. Press ✓. The Array 2 menu is selected.
  - c. Press  $\blacktriangle \nabla$  to scroll to Slice 0.
  - d. Press  $\checkmark$  to select the entry.

- 4. Press Exit until the Main menu is displayed.
- 5. To update the NVRAM with the new settings, do the following:
  - a. From the Main menu, press  $\mathbf{A} \mathbf{\nabla}$  to scroll to 6 NVRAM.
  - b. Press 🗸 . The 6 NVRAM menu is displayed.
  - c. Press ✓ to select 61 Update NVRAM.
  - d. Press  $\blacktriangle \nabla$  to scroll to YES.
  - e. Press ✓ to select YES.
  - f. Press  $\blacktriangle \nabla$  to scroll to 63 Restart.
  - g. Press 🗸 . The 63 Restart menu is displayed.
  - h. Press  $\blacktriangle \nabla$  to scroll to YES.
  - i. Press ✓. The DX9200HDDI restarts.
- 6. To complete the installation process, after the DX9200HDDI arrays are sliced, the DX9200HDDI must be connected to the DX8100 and configured to recognize the DX9200HDDI.
  - For information about connecting the DX9200HDDI to the DX8100, refer Connecting the DX8100 to the DX9200HDDI on page 35.
  - For information about setting up the DX8100 to recognize the DX9200HDDI, Configuring the DX8100 to Access the DX9200HDDI on page 36.

#### **DELETING ARRAYS**

In the event that the DX9200HDDI needs to be reconfigured, this section describes how to delete arrays. In this case, the DX8100 must also be reconfigured to recognize the new DX9200HDDI external storage device.

#### **DELETING ONE ARRAY**

To delete one array:

- 1. Verify that the RAID is not being used by any devices (DX8100).
- 2. On the DX9200HDDI control panel, do the following:
  - a. Press the CTRL button. The TO CONTROLLER PRESS ANY KEY message is display on the LCD screen.
  - b. Press 🗸 . The Enter Password prompt is displayed.
  - c. Press ✓ to enter 00000000 (default password).
  - d. Press 🗸 . The Main menu is displayed.
- 3. To select array 1, do the following:
  - a. From the Main menu, press  $\blacktriangle \nabla$  to display 2 RAID Params.
  - b. Press ✓. The 2 RAID Params menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 21 Array 1.
  - d. Press 🗸 . The 21 Array 1 menu is displayed.
  - e. Press **A V** to scroll to 211 Re-Conf RAID.
  - f. Press 🗸 . The 211 Re-Conf RAID menu is displayed.
  - g. Press  $\blacktriangle \nabla$  to scroll to YES.
  - h. Press ✓. The 21 Array 1 menu is redisplayed.
- 4. To delete the RAID level for array 1, do the following:
  - a. From the 21 Array 1 menu, press 🔺 🔻 to scroll to 212 RAID Level.
  - b. Press ✓. The 212 RAID Level menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to NONE.
  - d. Press ✓. The 21 Array 1 menu is redisplayed.
- 5. Press Exit until the Main menu is displayed.

- 6. To update the NVRAM with the new settings, do the following:
  - a. From the Main menu, press  $\blacktriangle \nabla$  to scroll to 6 NVRAM.
  - b. Press 🗸 . The 6 NVRAM menu is displayed.
  - c. Press ✓ to select 61 Update NVRAM.
  - d. Press  $\blacktriangle \nabla$  to scroll to YES.
  - e. Press  $\checkmark$  to select YES.
  - f. Press **A V** to scroll to 63 Restart.
  - g. Press 🗸 . The 63 Restart menu is displayed.
  - h. Press  $\blacktriangle \nabla$  to scroll to YES.
  - i. Press ✓. The DX9200HDDI restarts.

#### **DELETING TWO ARRAYS**

To delete two arrays:

- 1. Verify that the RAID is not being used by any devices (DX8100).
- 2. On the DX9200HDDI control panel, do the following:
  - a. Press the CTRL button. The TO CONTROLLER PRESS ANY KEY message is display on the LCD screen.
  - b. Press ✓. The Enter Password prompt is displayed.
  - c. Press ✓ to enter 00000000 (default password).
  - d. Press 🗸 . The Main menu is displayed.
- 3. To select array 1, do the following:
  - a. From the Main menu, press  $\blacktriangle \nabla$  to display 2 RAID Params.
  - b. Press 🗸 . The 2 RAID Params menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 21 Array 1.
  - d. Press 🗸 . The 21 Array 1 menu is displayed.
  - e. Press  $\blacktriangle \nabla$  to scroll to 211 Re-Conf RAID.
  - f. Press 🗸 . The 211 Re-Conf RAID menu is displayed.
  - g. Press  $\blacktriangle \nabla$  to scroll to YES.
  - h. Press ✓. The 21 Array 1 menu is redisplayed.
- 4. To delete the RAID level for array 1, do the following:
  - a. From the 21 Array 1 menu, press 🔺 🔻 to scroll to 212 RAID Level.
  - b. Press ✓. The 212 RAID Level menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to NONE.
  - d. Press ✓. The 21 Array 1 menu is redisplayed.
- 5. To delete array 2, do the following:
  - a. Press Exit. The 2 RAID Params menu is displayed.
  - b. Press  $\blacktriangle \nabla$  to scroll to 22 Array 2.
  - c. Press ✓. The 22 Array 2 menu is displayed.
  - d. Press  $\blacktriangle \nabla$  to scroll to 221 Re-Conf RAID.
  - e. Press ✓. The 221 Re-Conf RAID menu is displayed.
  - f. Press  $\blacktriangle \nabla$  to scroll to YES.
  - g. Press ✓. The 22 Array 2 menu is redisplayed.
  - h. Press 🗸 to select YES. The entry is confirmed and the 22 Array 2 menu is redisplayed.

- 6. Press Exit until the Main menu is displayed.
- 7. To delete the RAID level for array 2, do the following:
  - a. From the Main menu, press  $\blacktriangle \nabla$  to scroll to 2 RAID Params.
  - b. Press ✓. The 2 RAID Params menu is displayed.
  - c. Press  $\blacktriangle \nabla$  to scroll to 22 Array 2.
  - d. Press ✓. The 22 Array 2 menu is displayed.
  - e. Press  $\blacktriangle \nabla$  to scroll to 222 RAID Level.
  - f. Press 🗸 . The 222 RAID Level menu is displayed.
  - g. Press  $\blacktriangle \nabla$  to scroll to NONE.
  - h. Press ✓. The 22 Array 2 menu is redisplayed.
  - i. Press  $\blacktriangle \nabla$  to scroll to 63 Restart.
- 8. Press Exit until the Main menu is displayed.
- 9. To update the NVRAM with the new settings, do the following:
  - a. From the Main menu, press  $\blacktriangle \nabla$  to scroll to 6 NVRAM.
  - b. Press 🗸 . The 6 NVRAM menu is displayed.
  - c. Press ✓ to select 61 Update NVRAM.
  - d. Press  $\blacktriangle \nabla$  to scroll to YES.
  - e. Press ✓ to select YES.
  - f. Press  $\blacktriangle \nabla$  to scroll to 63 Restart.
  - g. Press 🗸 . The 63 Restart menu is displayed.
  - h. Press  $\blacktriangle \nabla$  to scroll to YES.
  - i. Press ✓. The DX9200HDDI restarts.

# Connecting the DX8100 to the DX9200HDDI

The DX9200HDDI can support one or two DX8100 DVRs (refer to Figure 20 and Figure 21). The optional DX8100-ISCI SCSI card must be installed prior to connecting the DX8100s to the DX9200HDDI. For information about installing the DX8100-ISCI SCSI card, refer to Installing the DX8100-ISCI SCSI card on page 9.

To connect a DX8100 to the DX9200HDDI:

- 1. Power down the DX9200HDDI unit.
- 2. Power down the DX8100 DVR.
- 3. If the DX9200HDDI and DX8100 are to be rack mounted, perform the physical installation procedures as specified in the respective installation manual for each unit.
- 4. Connect either one or two DX8100 DVRs to a single DX9200HDDI with a standard 50- to 68-pin SCSI cable.



Figure 20. Single DX8100 to DX9200HDDI SCSI Connection



Figure 21. Dual DX8100 to DX9200HDDI SCSI Connection

- 5. Power up the DX9200HDDI, and then power up the DX8100.
- 6. To complete the installation process, set up the DX8100 to recognize the DX9200HDDI. For information about setting up the DX8100 to recognize the DX9200HDDI external storage device, refer to Configuring the DX8100 to Access the DX9200HDDI on page 36.

# Configuring the DX8100 to Access the DX9200HDDI

This section describes how to configure the DX8100 to recognize the DX9200HDDI external storage device, and is organized into the following topics:

- Configuration Instructions for Storage Arrays up to 2.0 TB on this page
- Configuration Instructions for Storage Arrays Above 2.0 TB on page 46

NOTE: The following procedures should be performed only by users experienced in upgrading computer hardware and software.

## **CONFIGURATION INSTRUCTIONS FOR STORAGE ARRAYS UP TO 2.0 TB**

The following instructions describe the sequence of steps required to configure and allocate storage arrays up to 2.0 TB. To allocate storage beyond 2.0 TB, refer to Configuration Instructions for Storage Arrays Above 2.0 TB on page 46.

To allocate the new storage:

- 1. To exit the DX8100 application if it is running, and log in to the Windows operating system, do the following:
  - a. Go to File > Exit.
  - b. Select Exit to Windows. The Shut Down dialog box opens.
  - c. Click OK. The Log On to Windows dialog box opens.

Shut down	×
What do you want the DX8100 to do?	
Exit to Windows mode	
OK	Cancel

Figure 22. Shut Down Dialog Box

- d. Enter the Windows password and click OK to log in to the Windows operating system.
- 2. To open the Computer Management window, do the following:
  - a. Right-click the Start button. A shortcut menu opens.



Figure 23. Start Button Shortcut Menu
- b. Select the Explore option. The Start Menu opens.
- c. Right-click My Computer. Select Manage.

🔯 Start Menu	
File Edit View Favorites Tools Help	
🖛 Back 🔹 🤿 🔹 🔯 🧟 Search 📴 Folders 🧭 階 🕵 🗙 🗠	ז
Address 🔁 Start Menu	▼ ∂ <sup>2</sup> Go
Folders ×   Desktop My Documents   My Contract Start Menu   Explore open   Open also:   Manage Documents	Programs
Map Network Drive Network Places Disconnect Network Drive Computer Rename Properties	
1 object(s) (Disk free space: 15.6 GB)	0 bytes 📙 My Computer

Figure 24. My Computer Quick Menu

d. The Computer Management window opens.



Figure 25. Computer Management Window

- e. Select the Disk Management folder. The Write Signature and Upgrade Disk Wizard opens.
- f. Click Next. The Write Signature and Upgrade Disk Wizard opens.



Figure 26. Write Signature and Upgrade Disk Wizard

- g. Click Next. Select Disk to Write Signature dialog box opens.
- h. Click the check box to select each disk for which you want to write a signature.

	Disk to Write Sig			
Ch	oose the disks on wh	ch you want to w	vrite a signature.	
Sel	ect the disks on whicl	n you want to writ	e a signature:	
	Disk 4			
	Disk 5			
1				

Figure 27. Select Disk to Write Signature Dialog Box

- i. Click Next. The Select Disks to Upgrade dialog box opens.
- j. Click the check box to select each drive that you want to upgrade.

41	rite Signature and Upgrade Disk Wizard
	Select Disks to Upgrade
	Choose the disks to be upgraded.
	Select the disks you want to upgrade:
	Disk 4
	Disk 5
	< Back Next> Cancel

Figure 28. Select Disks to Upgrade Wizard Dialog Box

k. Click Next. The Completing the Write Signature and Upgrade Disk Wizard opens.

Write Signature and Upgrade	Disk Wizard	X
	Completing the Write Signature and Upgrade Disk Wizard You have successfully completed the Write Signature and Upgrade Disk Wizard. You have selected these settings: Upgrade the following disks:	
	To close this wizard, click Finish.	el

Figure 29. Completing the Write Signature and Upgrade Disk Wizard

- I. Click Finish. The new disks are displayed in the Computer Management window.
- m. Verify that the new disks are labeled Basic.
- 3. To create a partition, do the following:
  - a. Right-click in the Unallocated Space block. A shortcut menu opens.

	Volume	Layout	Туре	File System	Status	Capacity	Free Space
Computer Management (Local)	- 🗐 (C:)	Partition	Basic	NTFS	Healthy (System)	20.01 GB	15.64 GB
System Tools	New Volume (	Partition	Basic	NTFS	Healthy	445.75 GB	171 MB
Event Viewer	New Volume (	Partition	Basic	NTES	Healthy	465.75 GB	189 MB
System Information	New Volume (	Partition	Basic	NTFS	Healthy	465.75 GB	149 MB
- 🙀 Performance Logs and Alerts - 🕞 Shared Folders - 🚇 Device Manager - 🕵 Local Users and Groups	New Volume (	Partition	Basic	NTFS	Healthy	465.75 GB	149 MB
Storage	<u>.</u>						
- Jogical Drives	CDisk 0 Basic	(C:)		New Yo	lume (D:)		
Services and Applications	465.76 GB Online	20.01 GB NTFS Healthy (System)	6	445.75 Healthy	5B NTFS		
	Disk 1						
	465.75 GB Online	New Volume ( 465.75 GB NTFS Healthy	E)				
	Disk 2	New Yolume(	5)				
	465.75 GB Online	465.75 GB NTFS Healthy					
	@Disk 3						
	Basic 465.75 GB Online	New Volume ( 465.75 GB NTFS Healthy					
	@Disk 4	5-17/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/					
	Bacic						
	Basic 572.46 GB Online	57 Create Par	tition				

Figure 30. Unallocated Space Shortcut Menu

b. Select Create Partition. The Create Partition Wizard opens.

Create Partition Wizard		x
	Welcome to the Create Partition Wizard This wizard helps you create a partition on a basic disk. A basic disk is a physical disk that contains primary partitions, extended partitions, and logical drives. A basic disk may also contain volumes created with Windows NT 4.0 and earlier. You can also use MS-DDS to gain access to partitions on basic disks. To continue, click Next.	
	< Back Next > Cancel	1

Figure 31. Create Partition Wizard

c. Click Next. The Select Partition Type dialog box opens.

elect Partition Type You can specify what type of partitio	in to create.
Select the type of partition you want	to create:
Primary partition	
C Extended partition	
C Logical drive	
Description	
Windows 2000 and other operatin	u create using free space on a basic disk. ng systems can start from a primary partition. partitions on a basic disk, or you can make tended partition.

Figure 32. Select Partition Dialog Box

d. Select Primary Partition and then click Next. The Specify Partition Size dialog box opens.

The partition size value is set to 100 percent by default. Do not change the partition size value.

er than the maximum disk :	space.	
586200 MB		
7 MB		
586200		
	586200 MB 7 MB	7 MB

Figure 33. Specify Partition Size Dialog Box

e. Click Next. The Assign Drive Letter or Path dialog box opens.

Figure 34. Assign Drive Letter or Path Dialog Box

f. Click Next. The Format Partition dialog box opens.

ormat Partition You can customize the form	natting of the partition.
Specify whether you want to	o format this partition.
C Do not format this pa	artition
Format this partition	with the following settings:
- Formatting	
File system to use:	NTFS
Allocation unit size	: Default
Volume label:	New Volume
🔽 Perform a Quic	ck Format 🗖 Enable file and folder compression
2	

Figure 35. Format Partition Dialog Box

g. Click the Perform a Quick Format check box and then click Next.

**NOTE:** Make sure the Perform a Quick Format option is selected before clicking the Next button. Failure to select the Quick Format option will result in an unnecessarily long formatting time.

h. Click Finish. The new drive appears in the device list.



Figure 36. Completing the Create Partition Wizard

- i. Right-click the new drive from the device list. A shortcut menu opens.
- j. Select the Mark Partition Active option.

ree	Volume	Layout	Туре	File System	Status	Capacity	Free Space
Computer Management (Local)	- 🖃 (C:)	Partition	Basic	NTFS	Healthy (System)	20.01 GB	15.64 GB
System Tools	New Volume (.	Partition	Basic	NTFS	Healthy	445.75 GB	171 MB
E Event Viewer	New Volume (.	Partition	Basic	NTFS	Healthy	465.75 GB	189 MB
E System Information	New Volume (.	Partition	Basic	NTFS	Healthy	465.75 GB	149 MB
Performance Logs and Alerts	New Volume (.		Basic	NTFS	Healthy	465.75 GB	149 MB
🗄 🙀 Shared Folders	New Volume (1		Basic	NTFS	Healthy	572.46 GB	572.38 GE
- 🧸 Device Manager		Open					
🗄 🔣 Local Users and Groups		Explore					
🚰 Storage		Mark Partition Acti	ve				
- 🔄 Disk Management		Change Drive Lett					
- 🚱 Disk Defragmenter		Format					
Logical Drives	ØDisk 0 —						
🗄 🔐 Removable Storage	Basic 1 465.76 GB	Delete Partition			olume (D:)		
Services and Applications		Properties		445./5 Healthy	GB NTFS		_
		ropordos		Thouldiny			
	@Disk 1	Help					
	Basic	New Volume					
	465.75 GB Online	465.75 GB NT	FS				
	Online	Healthy					
	Disk 2						
	Basic	New Volume	• (E:)				
	465.75 GB	465.75 GB NT					
	Online	Healthy					
	Basic	New Yolume	(5)				
	465.75 GB	465.75 GB NT					
	Online	Healthy					
		l'anna anna anna anna anna anna anna ann					
	CDisk 4						
	Basic	New Volume					
	572.46 GB Online	572.46 GB NTF Healthy	-5				1
		neating					
	ormine						
	CDRom 0				I		

Figure 37. Drive Shortcut Menu

- 4. To reset the DX8100's storage allocation tables, do the following:
  - a. Go to Start > Run. The Run dialog box opens.

WARNING: The Allocreset.exe program will reset the DX8100's storage allocation tables. This program should be executed only when increasing the storage capacity of the DX9200HDDI storage array.

- b. Type Allocreset.exe in the Open text box.
- c. Click OK. The Allocation Management dialog box opens.



Figure 38. Allocation Management Dialog Box

- d. Click Re-Allocate.
- e. Go to Start > Shutdown > Restart to reboot the DX8100.
- 5. After the system has been rebooted, the PDB Initialize dialog box opens. Before new drives can be used to store video data, each drive must be made compatible with the DX8100's PDB file structure. Follow the steps below to finalize the storage setup:
  - a. If the DX8100 uses internal drives for video storage, click the Recovery button in the PDB group ID box.
  - b. Click the plus (+) sign next to the box that reads, "Space on one or more hard disk drives has not yet been allocated to the PDB database."

PDB group ID is [B5F4A424-9E04-437A-8D20-5AE0460F941B]	Recovery	Status You are starting the DX8100 program for the first time. The following hard disk drives have not yet been prepared for use with the DX8100. Please
Space on one or more hard disk drives has not Kbeen allocated to the PDB database.	Recovery	select on or more drives from the HDD lists in the tree on the left.
		New PDB Identifier

Figure 39. Selecting the PDB Box

c. For each drive listed, click the Not Used button. A drop-down menu appears. There may be more than one drive listed.



Figure 40. Opening Drive Options Menu

d. For each drive listed, select the Allocation option from the drop-down menu.

PDB group ID is [B5F4A424-9E04-437A-8D20-5AE0460F941B]	Recovery	You are starting the DX8100 program for the first time. The following hard disk drives have not yel been prepared for use with the DX8100. Please
Space on one or more hard disk drives has not yet been allocated to the PDB database.	Recovery	select one or more drives from the HDD lists in the tree on the left.
New Volume[I:][NTFS] Drive size: 572.46(G) Free: 572.38(G)	Not used Not used Not used (format)	
	Allocation IR Allocation	New PDB Identifier
	TK Allocation	[ [47A88E07-5562-4169-81EE-328F0

Figure 41. Selecting Allocation Option for Each Drive

e. Click Begin allocation. A warning message is displayed.

Space on one or more hard disk drives has not yet been Recovery select one or more drives from the HDD lists tree on the left.	PDB group ID is [B5F4A424-9E04-437A-8D20-5AE0460F941B]	Recovery You are starting the DX8100 program for the first time. The following hard disk drives have not yet been prepared for use with the DX8100. Please
Drive size: 572.46(G) Free: 572.38(G)		select one or more drives from the HDD lists in the
		Allocation
	,	
147488E07-5562-4169-81EE-328E09585		New PDB Identifier
		[47A88E07-5562-4169-81EE-328F095B5506
		Begin allocation Cancel

Figure 42. Initializing Drive Allocation

f. A warning message is displayed. Click Yes.



Figure 43. Format Warning Dialog Box

g. Wait while the DX8100 prepares the newly installed drives for video storage. You will see the following progress bar while the formatting is underway.

PDB Create			
			24
I:\PDB\[FC8B7457-A8C8-4DAC-94ED-E5	07149446E1	]\00001538.pix	

Figure 44. PDB Database Creation Progress Bar

After the storage allocation procedure is complete, the DX8100 will reboot automatically and the unit will be ready to resume service.

# **CONFIGURATION INSTRUCTIONS FOR STORAGE ARRAYS ABOVE 2.0 TB**

To initialize storage beyond 2.0 TB:

- 1. To exit the DX8100 application if it is running, and log on to the Windows operating system, do the following:
  - a. Go to File > Exit.
  - b. Select Exit to Windows. The Shut Down dialog box opens.
  - c. Click OK. The Log On to Windows dialog box opens.

Shut down	X
What do you want the DX8100 to do	?
Exit to Windows mode	
OK	Cancel

Figure 45. Shut Down Dialog Box

- d. Enter the Windows password and click OK to log in to the Windows operating system.
- 2. To open the Computer Management window, do the following:
  - a. Right-click the Start button. A shortcut menu opens.



Figure 46. Start Button Shortcut Menu

- b. Select the Explore option. The Start Menu opens.
- c. Right-click My Computer. Select Manage.

🔍 Start Me	enu			
File Edit	View Favorites Tools	Help		
🖛 Back 👻	⇒ - 🔁 🕺 Search 🛛	-Folders 🧭 📲 🦞 🗙 🔊		
Address 🚞	Start Menu			- @Go
Folders Desktop	ments		Programs	
	Collapse	Start Menu		
ф. е	Explore Open	ect an item to view its description.		
	Manage	also: Documents		
	Map Network Drive Disconnect Network Drive	Network Places Computer		
F	Rename			
F	Properties			
	DRIVERS			
⊞ <mark>(1)</mark> S ⊞ (1) S ⊞ (1) b	Program Files SoftwareUpgrade SystemLog remp webSecurity <b>v</b>			
4	Disk free space: 15.6 GB)		0 bytes	🛄 My Computer

Figure 47. My Computer Quick Menu

d. The Computer Management window opens.



Figure 48. Computer Management Window

- e. Select the Disk Management folder. The Write Signature and Upgrade Disk Wizard opens.
- f. Click Next. The Write Signature and Upgrade Disk Wizard opens.



Figure 49. Write Signature and Upgrade Disk Wizard

- g. Click Next. Select Disk to Write Signature dialog box opens.
- h. Click the check box to select each disk for which you want to write a signature.

Select Disk to Wri	te Signature		
Choose the disks	on which you want to writ	e a signature.	
Select the disks o	n which you want to write	a signature:	
Disk 4			 -
✓ Disk 5			
		-	 Cancel

Figure 50. Select Disk to Write Signature Dialog Box

- i. Click Next. The Select Disks to Upgrade dialog box opens.
- j. Click the check box to select each drive that you want to upgrade.

Cal	lect Disks to Upgrade				
361	Choose the disks to be upgrade	ed.			
	Select the disks you want to upg	grade:			
	🗆 Disk 4				_
	Disk 5				
			< Back	Next>	Cancel

Figure 51. Select Disks to Upgrade Wizard Dialog Box

k. Click Next. The Completing the Write Signature and Upgrade Disk Wizard opens.

Write Signature and Upgrade	Disk Wizard	×
	Completing the Write Signature and Upgrade Disk Wizard You have successfully completed the Write Signature and Upgrade Disk Wizard. You have selected these settings: Upgrade the following disks:	
	To close this wizard, click Finish.	4

Figure 52. Completing the Write Signature and Upgrade Disk Wizard

- I. Click Finish. The new disks are displayed in the Computer Management window.
- m. Verify that the new disks are labeled Basic.
- 3. To create a partition, do the following:
  - a. Right-click in the Unallocated Space block. A shortcut menu opens.

e	Volume	Layout	Туре	File System	Status	Capacity	Free S
Computer Management (Local)	- 🗐 (C:)	Partition	Basic	NTFS	Healthy (System)	20.01 GB	15.64
System Tools	New Volume (.	. Partition	Basic	NTES	Healthy	445.75 GB	171 M
Event Viewer	New Volume (.	. Partition	Basic	NTES	Healthy	465.75 GB	205 M
System Information	New Volume (.	. Partition	Basic	NTFS	Healthy	465.75 GB	149 N
	⊖New Volume (.	. Partition	Basic	NTFS	Healthy	465.75 GB	1491
Storage	•						
- 🗃 Logical Drives E 😭 Removable Storage Services and Applications	CPDisk 2 Basic 465.75 GB Online	New Volume 465.75 GB NT Healthy	<b>: (F:)</b> FS				
	CPDisk 3 Basic 465.75 GB Online	New Volume 465.75 GB NT Healthy					
	CPDisk 4 Basic 2047,99 GB Online	2047.99 GB Unallocated	Create Pa	artition			
	Disk 5		Properties	hà			
	Basic	979.46 GB	Help				
	979.46 GB		Help				

Figure 53. Unallocated Space Shortcut Menu

b. Select Create Partition. The Create Partition Wizard opens.



Figure 54. Create Partition Wizard

c. Click Next. The Select Partition Type dialog box opens.

Select Partition Type You can specify what type of partition	to create.		
Select the type of partition you want to	create:		
Primary partition			
C Extended partition			
C Logical drive			
- Description			
A primary partition is a volume you o Windows 2000 and other operating You can create up to foru primary p three primary partitions and an exter	systems can start from artitions on a basic dis	n a primary partiti	ion.

Figure 55. Select Partition Type Dialog Box

d. Select Primary Partition and then click Next. The Specify Partition Size dialog box opens.

The partition size value is set to 100 percent by default. Do not change the partition size value.

	ion to be?	
Choose a partition size that is s	maller than the maximum disk	space.
Maximum disk space:	2097141 MB	
Minimum disk space:	7 MB	
Amount of disk space to use:	2097141	

Figure 56. Specify Partition Size Dialog Box

e. Click Next. The Assign Drive Letter or Path dialog box opens.

Create Pa	Partition Wizard	×
	ign Drive Letter or Path You can assign a drive letter or drive path to a partitior	n.
C	Assign a drive letter: I: I: Mount this volume at an empty folder that supports Do not assign a drive letter or drive path	s dive paths: Browse
	< Bac	ck Next> Cancel

**Figure 57.** Assign Drive Letter or Path Dialog Box

f. Click Next. The Format Partition dialog box opens.

Specif	y whether you want to form	nat this partition.		
0	Do not format this partition	1		
·	Format this partition with t	he following settings:		
	Formatting			
	File system to use:	NTFS	•	
	Allocation unit size:	Default	-	
	Volume label:	New Volume		
	<b>E a</b> ( <b>b</b>			
	Perform a Quick Fo	rmat 🗖 Enable fi	le and folder con	pression

Figure 58. Format Partition Dialog Box

g. Click the Perform a Quick Format check box and then click Next.

**NOTE:** Make sure the Perform a Quick Format option is selected before clicking the Next button. Failure to select the Quick Format option will result in an unnecessarily long formatting time.

h. Click Finish. The new drive appears in the device list.



Figure 59. Completing the Create Partition Wizard

i. Right-click the new drive from the device list. A shortcut menu opens.

C:)	Partition				Capacity	Free Sp
Catan Ushman (		Basic	NTFS	Healthy (System)	20.01 GB	15.64
wew volume (	Partition	Basic	NTFS	Healthy	445.75 GB	171 ME
New Volume (	Partition	Basic	NTFS	Healthy	465.75 GB	205 M
New Volume (	Partition	Basic	NTFS	Healthy	465.75 GB	149 M
		Basic	NTFS	Healthy	465.75 GB	149 ME
Open Explo	re	Bacic	NTFS	Healthy	2047.99 GB	2047.
Chan	ge Drive Letter a	and Nath			-	<u>)</u>
Basic Delet 465.75 G Online Prope						
Rep Basic 465.75 GB Online						
CDisk 4 Basic 2047.99 GB Online	New Volume 2047.99 GB NT Healthy	(I:) FS				
CPDisk 5 Basic 979,46 GB Online	979.46 GB Unallocated					
	New Volume ( Open Explo Exp	Format       Basic     Delete Partition       455.75 GB     Properties       Online     Properties       Basic     455.75 GB       Collect     Percentian       465.75 GB     New Yolume       63Poisk 4     Basic       Basic     2047.99 GB NI       73Poisk 5     Basic       979.46 GB     Orline       979.46 GB     Orline	Hew Volume ( Partition Basic Deel Partition Basic Coren Explore Explore Mark Partition Active Change Drive Letter and Seth Format Properties Delete Partition Help Basic How Volume (G:) 2047.99 GB Online Conline Properties			

Figure 60. Drive Shortcut Menu

- j. Select the Mark Partition Active option.
- 4. Repeat step 3 for the remaining unallocated disks.
- 5. To reset the DX8100's storage allocation tables, do the following:
  - a. Go to Start > Run. The Run dialog box opens.

WARNING: The Allocreset.exe program will reset the DX8100's storage allocation tables. This program should be executed only when increasing the storage capacity of the DX9200HDDI storage array.

- b. Type Allocreset.exe in the Open text box.
- c. Click OK. The Allocation Management dialog box opens.



Figure 61. Allocation Management Dialog Box

- d. Click Re-Allocate.
- e. Go to Start > Shutdown > Restart to reboot the DX8100.
- 6. After the system has been rebooted, the PDB Initialize dialog box opens. Before new drives can be used to store video data, each drive must be made compatible with the DX8100's PDB file structure. Follow the steps below to finalize storage setup:
  - a. If the DX8100 uses internal drives for video storage, click the Recovery button in the PDB group ID box.

PDB group ID is [47A88E07-5562-4169-81EE-328F095B5506]	Recovery	You are starting the DX8100 program for the first time. The following hard disk drives have not yet been prepared for use with the DX8100. Please
ace on one or more hard disk drives has not yet been Recovery Recovery		select one or more drives from the HDD lists in the tree on the left.
		- New PDB Identifier

Figure 62. Selecting Recovery for PDB Group

b. Click the plus (+) sign next to the box that reads, "Space on one or more hard disk drives has not yet been allocated to the PDB database."

Ŧ	PDB group ID is [47A88E07-5562-4169-81EE-328F095B5506]	Recovery	Status You are starting the DX8100 program for the first time. The following hard disk drives have not yet
	Space on one or more hard disk drives has not yet been allocated to the PDB database.	Recovery	been prepared for use with the DX8100. Please select one or more drives from the HDD lists in the tree on the left.
NI	New Volume(I:)[NTFS] Drive size: 2047.99(G) Free: 2047.86(G)	Not used	
	New Volume(J:)[NTFS] Drive size: 979.46(G) Free: 979.36(G)	Not used	
	L		New PDB Identifier
			[C26BA551-6C63-47DE-873C-770A28180C37]
			Begin allocation Cancel

## Figure 63. Selecting the PDB Box

c. For each drive listed, click the Not Used button. A drop-down menu appears. There may be more than one drive listed, as shown in the figure above.

d. For each drive listed, select the Allocation option from the drop-down menu.

	PDB group ID is [47A88E07-5562-4169-81EE-328F095B5506]	Recovery	You are starting the DX8100 program for t time. The following hard disk drives have been prepared for use with the DX8100. F	not yet
1	Space on one or more hard disk drives has not yet been allocated to the PDB database.	Recovery	select one or more drives from the HDD list tree on the left.	sts in th
	New Volume(I:)[NTFS] Drive size: 2047.99(G) Free: 2047.86(G)	Allocation		
	New Volume[J:][NTFS] Drive size: 979.46[G] Free: 979.36[G]	Not used		-
		Not used Not used (format)	New PDB Identifier	
		Allocation IR Allocation	[C26BA551-6C63-47DE-B73C-770A281	80C37]
			Begin allocation Can	cal

Figure 64. Selecting Allocation Option for Each Drive

e. Click Begin allocation.

Ŧ	PDB group ID is [47A88E07-5562-4169-81EE-328F095B5506]	You are starting the DX8100 program for the first
=  _[	Space on one or more hard disk drives has not yet been	been prepared for use with the DX8100. Please select one or more drives from the HDD lists in the
	allocated to the PDB database.	y dee of the left.
	New Volume(I:)[NTFS] Drive size: 2047.99(G) Free: 2047.96(G)	
	New Volume(J:)[NTFS] Drive size: 979.46(G) Free: 979.36(G)	
		New PDB Identifier
		[C26BA551-6C63-47DE-B73C-770A28180C37]

Figure 65. Initializing Drive Allocation

f. A warning message is displayed. Click Yes.



Figure 66. Format Warning Dialog Box

g. Wait while the DX8100 prepares the newly installed drives for video storage. You will see the following progress bar while the formatting is underway.

After the storage allocation procedure is complete, the DX8100 will reboot automatically and the unit will be ready to resume service.



Figure 67. PDB Database Creation Progress Bar

## 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 on FR/FT/FS Series fiber optic products and TW3000 Series unshielded twisted pair transmission products.
- Three years on Spectra® IV products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure<sup>®</sup> and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Three years on PMCL200/300/400 Series LCD monitors.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy<sup>®</sup>, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra III™, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit and WW5700 Series window wiper (excluding wiper blades).
- Two years (except lamp and color wheel) on Digital Light Processing (DLP®) displays. The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura<sup>™</sup> Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, 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 Pelco, Clovis, California. 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)b289-9100 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 which 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

In order to expedite parts returned to the factory for repair or credit, please call the factory 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).

All merchandise returned for credit may be subject to a 20% 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. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to: Service Department

Pelco 3500 Pelco Way Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco 3500 Pelco Way Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors 473 Eccles Avenue South San Francisco, CA 94080 USA Phone: 650-737-1700 Fax: 650-737-0933

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



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

#### **REVISION HISTORY**

Manual #	Date	Comments
C2635M	1/07	Original version.

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