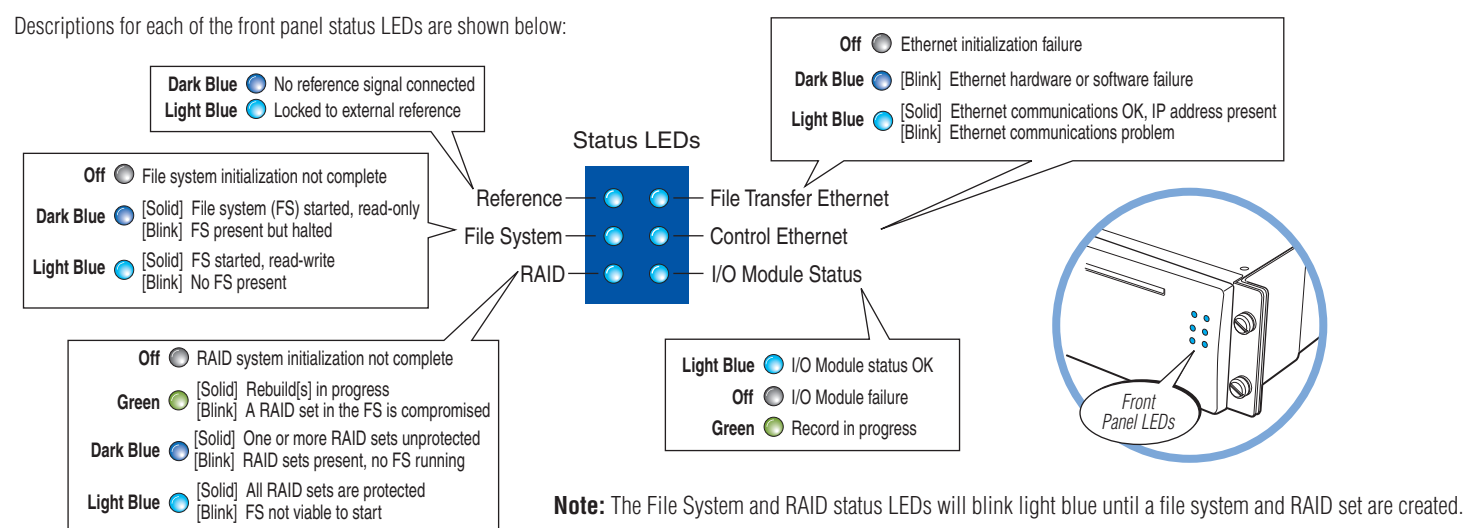


10 Power Up the System

1. Apply power to the Ethernet hub or switch.
2. Apply power to the SystemManager Platform and Keyboard/Monitor Tray, or client PC.
3. From the SystemManager Platform, log on to Microsoft Windows with the user name: **Administrator**, and the password: **omneon**. Both entries are case sensitive.
Note: If an error message appears indicating that a network connection is missing, click **OK** and continue with the power-up sequence.
If you have installed SystemManager on a client PC, log on to your client PC.
4. Apply power to the Omneon MediaDeck by connecting the AC cords to the separate power sources.
5. Check the status LEDs on the Omneon MediaDeck front panel and verify there are no problems. Refer to "Reading the Front Panel Status LEDs" below.
6. Apply power to the (optional) automation system.

Reading the Front Panel Status LEDs

Descriptions for each of the front panel status LEDs are shown below:

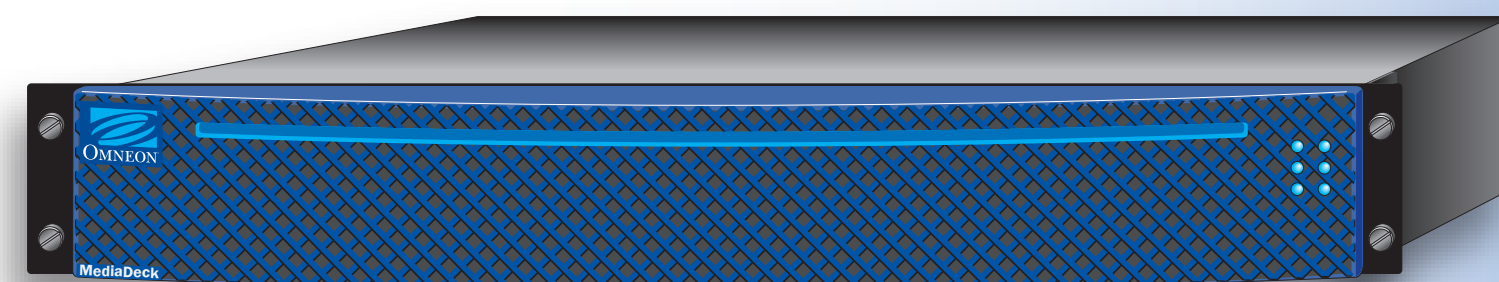


11 Run Software

To run SystemManager and begin using your Omneon MediaDeck, refer to "Running SystemManager and Creating a File System" in the *Omneon MediaDeck™ User's Guide*.



Omneon MediaDeck™ Installation Guide



This guide includes connection instructions for the following Omneon MediaDeck Modules:

- 5000 Series SD MPEG-2/DV MediaDeck Module (MDM-5001)
- 5200 Series SD MPEG-2 MediaDeck Module (MDM-5201)
- 5300 Series HD/SD MPEG-2 MediaDeck Module (MDM-5301)
- 5220 Series SD MPEG-2 Dual I/O MediaDeck Module (MDM-5221)
- 5320 Series HD/SD MPEG-2 Dual I/O MediaDeck Module (MDM-5321)

To access the Omneon MediaDeck documentation, including the *Omneon MediaDeck™ User's Guide*, go to: ftp.omneon.com/updates/omneon/current/MediaDeck/

To access the Omneon SystemManager software and documentation, go to: ftp.omneon.com/updates/omneon/current/SystemManager/

Refer to the *Omneon MediaDeck™ Read Me First* in your Omneon MediaDeck kit for the password to download the documentation and software files for the Omneon MediaDeck and SystemManager.

Replacing Omneon MediaDeck™ Components

Important! For complete component replacement instructions, refer to the *Omneon MediaDeck™ Component Replacement Guide* in your MediaDeck Kit.

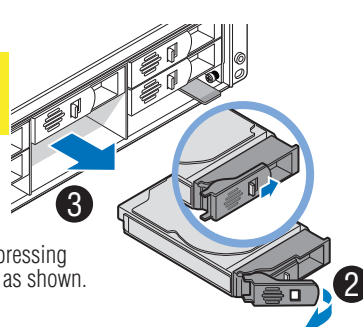
Caution: Electrostatic discharge can damage components. Make sure to wear an antistatic wrist strap and attach it to a metal part of the MediaDeck chassis when performing the procedures in this guide.

Replacing a Disk Drive

Caution: Refer to the *Component Replacement Guide* for complete drive replacement steps using SystemManager prior to removing a disk drive.

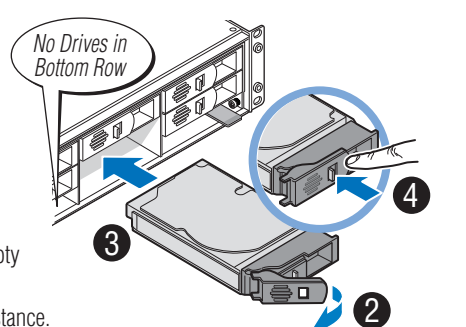
To remove a disk drive:

1. Remove the bezel. Refer to the *Component Replacement Guide* for assistance.
2. Open the latch on the front of the disk drive by pressing the tab to the right while pulling the lever back, as shown.
3. Slide the disk drive out of the drive bay.



To install a disk drive:

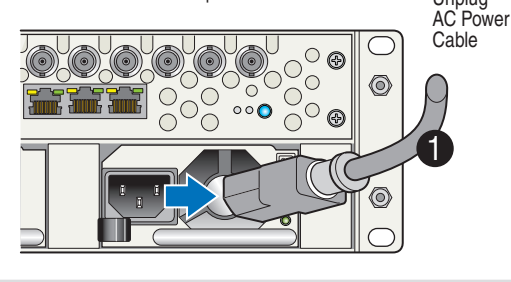
1. Unpack a disk drive.
2. Open the drive latch.
3. Using the slots in the drive cage as a guide, insert the disk drive all the way into the enclosure until the camming lever on the left side of the carrier stops it.
4. Push the lever closed to lock the drive into place.
5. Install the bezel. Refer to the *Component Replacement Guide* for assistance.



Replacing a Power Supply

To remove a power supply:

1. Disconnect the AC power cable.



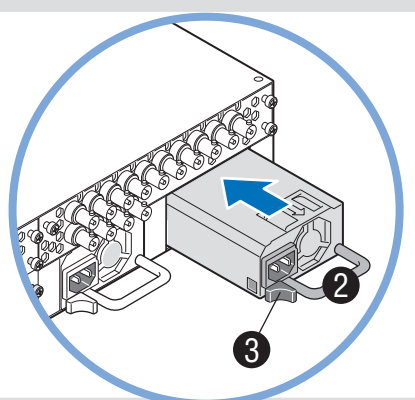
Unplug AC Power Cable

2. Press the release lever to the right and pull the handle to remove the power supply, as shown.

Note: Power supplies are hot-swappable. Use separate, isolated power sources for each AC input.

To install a power supply:

1. Unpack the power supply.
2. Using the handle, slide the power supply into the empty chassis slot.
3. The release lever will click to indicate that the unit is locked in place.

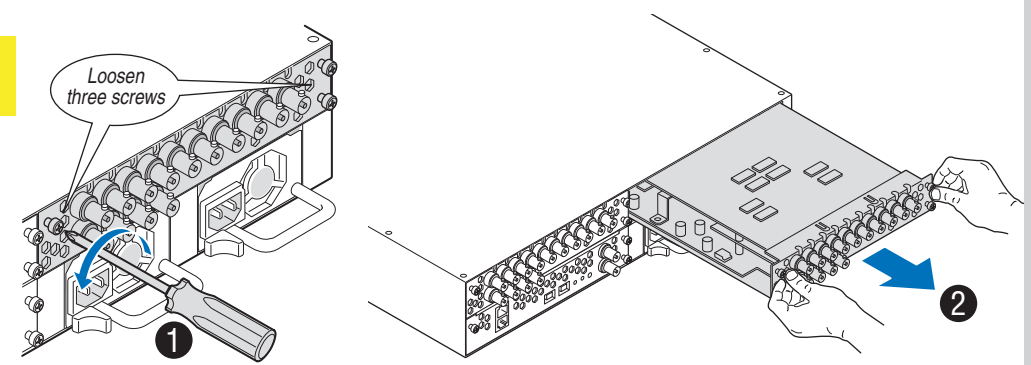


Replacing an I/O Module

Caution: Refer to the *Component Replacement Guide* for necessary replacement steps using SystemManager prior to removing the I/O module.

To remove an I/O Module:

1. Using a screwdriver, loosen the three screws on the rear panel of the I/O Module, as shown. The screws are captive and will not come out completely.
2. Using both hands to grip the screws, gently pull out the I/O Module from the chassis, as shown at right.



To install an I/O Module:

1. Unpack the I/O Module.
2. Using both hands to grip the rear panel of the I/O Module, gently slide the module into the chassis. Make sure to keep the SAS cable above the processor board as you slide in the module.
3. Using a screwdriver, tighten the three screws on the rear panel of the I/O Module.

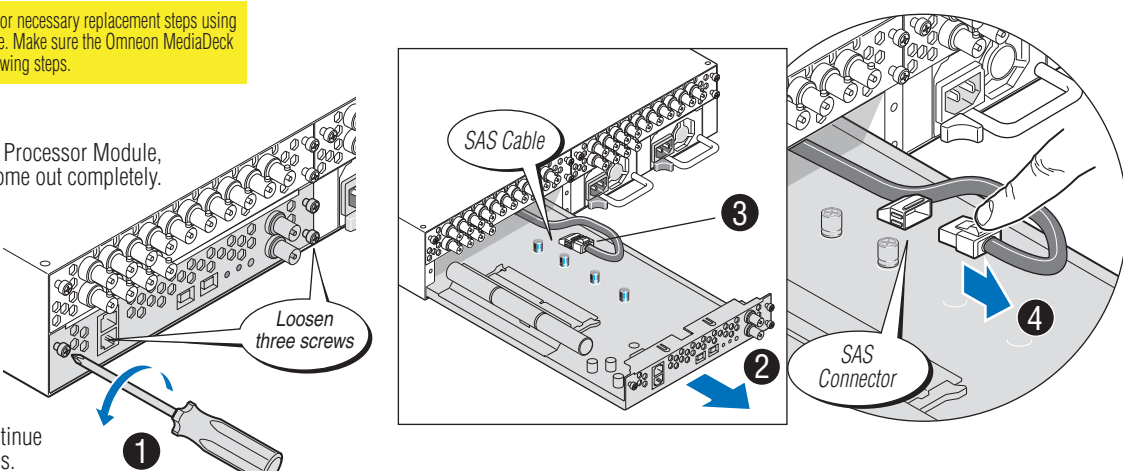
Note: Do not over-tighten the captive screws.

Replacing the Processor Module

Caution: Refer to the *Component Replacement Guide* for necessary replacement steps using SystemManager prior to removing the processor module. Make sure the Omneon MediaDeck is powered down completely before performing the following steps.

To remove the Processor Module:

1. Loosen the three screws on the rear panel of the Processor Module, as shown. The screws are captive and will not come out completely.
2. Using both hands to grip the screws, gently pull out the Processor Module halfway from the chassis. **Important:** Do not attempt to pull out the module completely.
3. Locate the SAS (Serial Attached SCSI) connector on the Processor Module board.
4. Press down on the top latch of the SAS connector and disconnect the SAS cable.
5. Once the SAS cable has been disconnected, continue removing the Processor Module from the chassis.



To install the Processor Module:

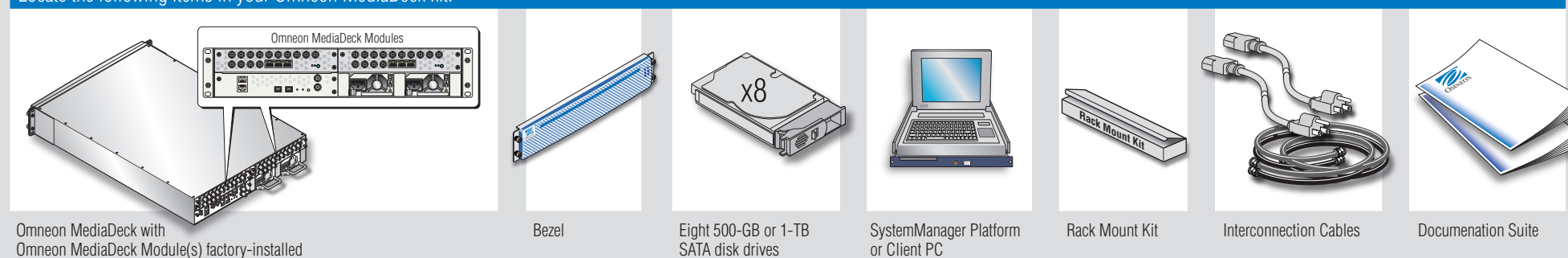
1. Unpack the Processor Module.
2. Gently slide the module halfway into the chassis. Make sure to keep the SAS cable above the processor board as you slide in the module.
3. Connect the SAS cable to the SAS connector.
4. Continue sliding the Processor Module into the chassis until the rear panel of the module is flush with the rear of the chassis.
5. Tighten the three screws on the rear panel of the Processor Module.

Warning: Safe handling of this system requires TWO people.

Caution: Unpack and place your Omneon MediaDeck system on a flat anti-static surface to perform the following installation procedures contained in this document.

Caution: Electrostatic discharge can damage components. Make sure to wear an antistatic wrist strap and attach it to a metal part of the Omneon MediaDeck chassis when performing the procedures in this guide.

Locate the following items in your Omneon MediaDeck kit:



Omneon MediaDeck with Omneon MediaDeck Module(s) factory-installed

Bezel

Eight 500-GB or 1-TB SATA disk drives

SystemManager Platform or Client PC

Rack Mount Kit

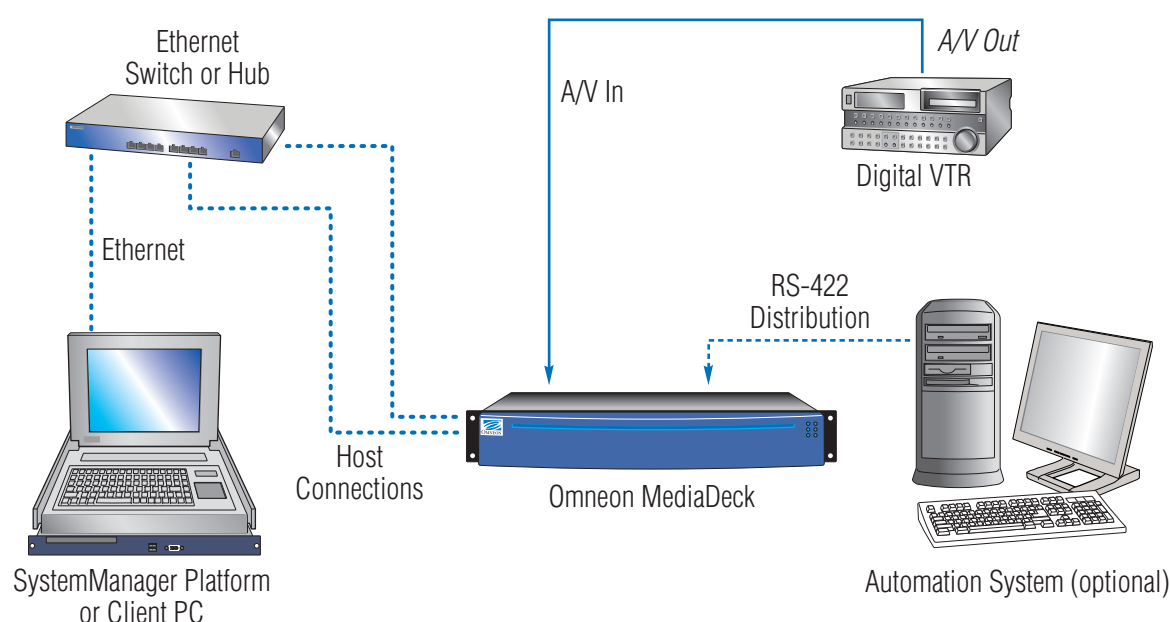
Interconnection Cables

Documentation Suite

Sample System Diagram

A sample system is shown below. Customer-supplied components include the following:

- Digital VTR (if an Analog VTR is used, external A-D converters are required)
- Video Monitors
- RS-422 interconnection cables (DB-9 Male to DB-9 Male)
- Audio/Video interconnection cables suitable for SDI and AES signal transmission, and monitoring equipment
- Gigabit Ethernet Hub or Gigabit Ethernet switch
- Automation System (optional)



Note: For complete environmental, power, racking, and cable requirements, refer to the *Omneon MediaDeck™ User's Guide*.

Technical Support

Omneon Technical Support can be contacted as follows:

For support in the Americas:
Telephone (Toll Free): +1(888) OVN SPT1 (686 7781)
Telephone (Local): +1(408) 585 5200
Fax: +1(408) 521 2191
Email: support@omneon.com
<http://www.omneon.com/support>
<http://ftp.omneon.com/updates/Omneon/Current/>

For support in Europe, Middle East, and Africa:
Telephone: +44 1256 347 401
Fax: +44 (0) 1256 347 410
Email: emeasupport@omneon.com
<http://www.omneon.com/support>
<http://ftp.omneon.com/updates/Omneon/Current/>

For support in Japan:
Telephone: +81 3 5565 6737
Fax: +81 3 5565 6736
Email: japansupport@omneon.com
<http://www.omneon.com/support>
<http://ftp.omneon.com/updates/Omneon/Current/>

For support in China (mainland):
Telephone: +86 10 5811 1949
Fax: +86 10 5811 1951
Email: apacsupport@omneon.com
<http://www.omneon.com/support>
<http://ftp.omneon.com/updates/Omneon/Current/>

For support in Asia Pacific (other territories):
Telephone: +65 6548 0500
Fax: +65 6548 0504
Email: apacsupport@omneon.com
<http://www.omneon.com/support>
<http://ftp.omneon.com/updates/Omneon/Current/>

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1 Rack Mounting

For complete instructions on rack mounting the Omneon MediaDeck™ System, refer to the *Omneon MediaDeck™ User's Guide* and the instructions provided with the rack kit.

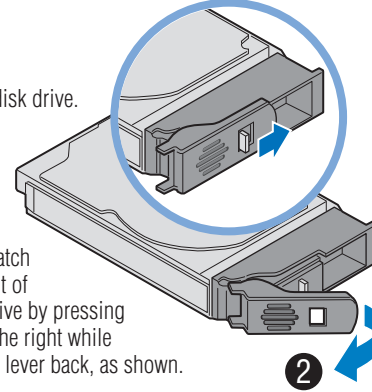


Warning: Safe handling of this system requires TWO people.

2 Install the Disk Drives

Caution: Electrostatic discharge can damage components. Observe normal ESD (Electrostatic Discharge) procedures when handling hard drive assemblies.

1. Unpack a disk drive.
2. Open the latch on the front of the disk drive by pressing the tab to the right while pulling the lever back, as shown.

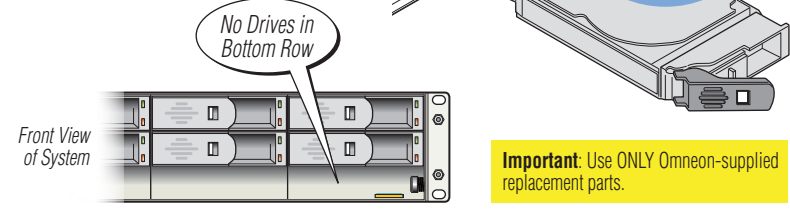


3. Using the slot guides in the enclosure to guide the drive, insert the disk drive all the way into the drive bay until the camming lever on the left side of the carrier stops it.

4. Push the lever closed to lock the drive into place.

Note: Disk drives can be installed in any order. **Note:** Do not attempt to install disk drives into the bottom row of the drive cage. This space is intended for air flow only.

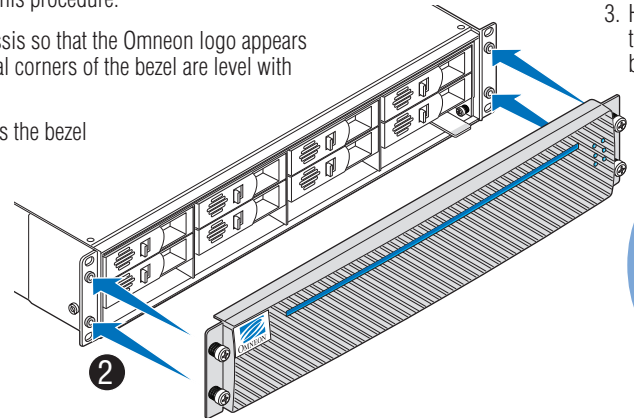
5. Install the remaining disk drives.



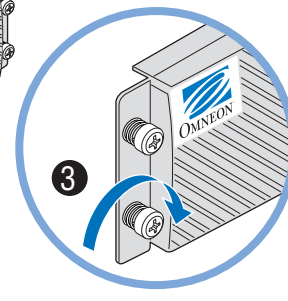
3 Install the Bezel

Note: Use TWO hands to perform this procedure.

1. Align the bezel in front of the chassis so that the Omneon logo appears in the top-left corner, and the metal corners of the bezel are level with the rack ears of the chassis.
2. Keeping the corners aligned, press the bezel straight onto the chassis. The top and bottom edges of the bezel should slide over the top and bottom edges of the chassis. The LED connector inside the bezel should connect to the LED card inside the chassis.



3. Hand-tighten the four captive thumb screws to secure the bezel in place.



4 Install the SystemManager Platform or Client PC

The SystemManager application, used to operate and configure the Omneon MediaDeck, comes pre-installed on the SystemManager Platform. The software-only version of SystemManager (NSM-2007SW) can be installed and run on your own client PC.



To install either the SystemManager Platform or the software-only version of SystemManager, refer to the *Omneon SystemManager Release Notes* and *Omneon SystemManager Installation Guide* for instructions. These guides can be downloaded from: ftp.omneon.com/updates/omneon/current/SystemManager/ Refer to the *Omneon MediaDeck™ Read Me First* in your MediaDeck kit for help with downloading the necessary files.

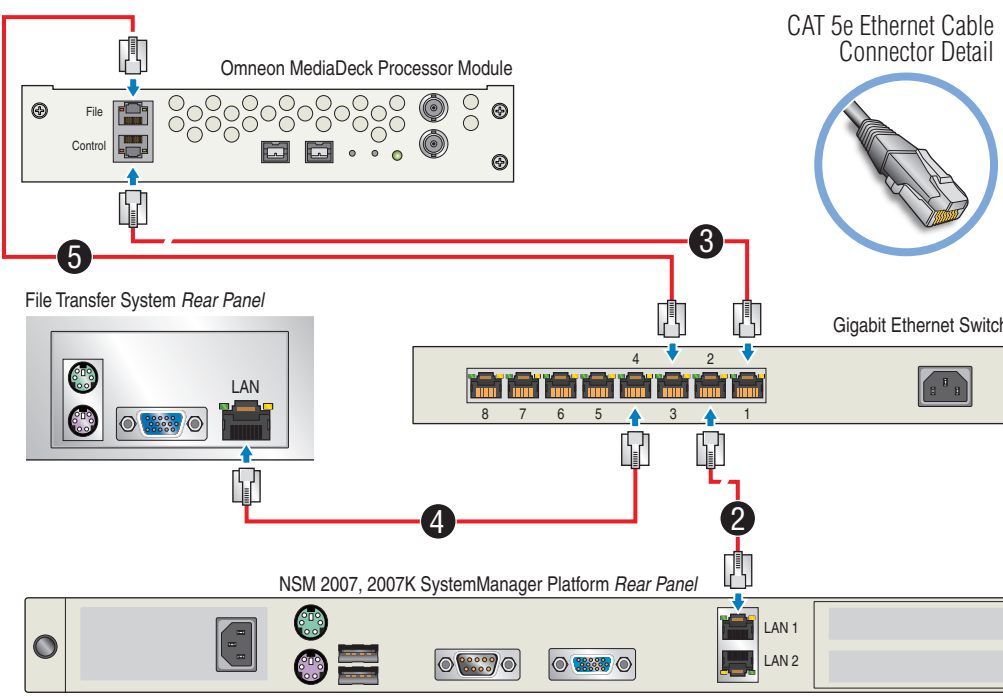
5 Connect to your Gigabit Ethernet Network

Connect to SystemManager

- Important:** Check with your network administrator before connecting to your Ethernet network.
- Note:** For the following connections, Omneon recommends that you use a CAT 5e or CAT 6 Ethernet cable. Do not use a crossover cable or an adapter.
1. Ensure that an Ethernet switch with Gigabit uplink capability has been installed in your equipment rack.
 2. Attach an Ethernet cable to the **LAN1** port on the SystemManager Platform, or an open LAN port on your client PC. Attach the other end of the Ethernet cable to the Ethernet switch.
 - Note:** Do not use the LAN2 port on the SystemManager Platform unless you have configured SystemManager as a client, or you are using the NSM-2003. Refer to the *Omneon SystemManager Installation Guide* for details.
 3. Attach an Ethernet cable to the **Control** port on the Omneon MediaDeck, and then attach the other end to an open port on the Ethernet switch. The Omneon MediaDeck uses DHCP to obtain an IP address from SystemManager.

Connect to a File Transfer System (Recommended)

- Your file transfer system may be any system you use for editing or network storage. The Omneon MediaDeck supports file transfers using FTP, SAMBA, and AFP protocols.
4. Attach an Ethernet cable to the Ethernet switch, and then attach the other end to the LAN port on your file transfer system.
 5. Attach an Ethernet cable to the **File** port on the Omneon MediaDeck, and then attach the other end to an open port on the Ethernet switch.

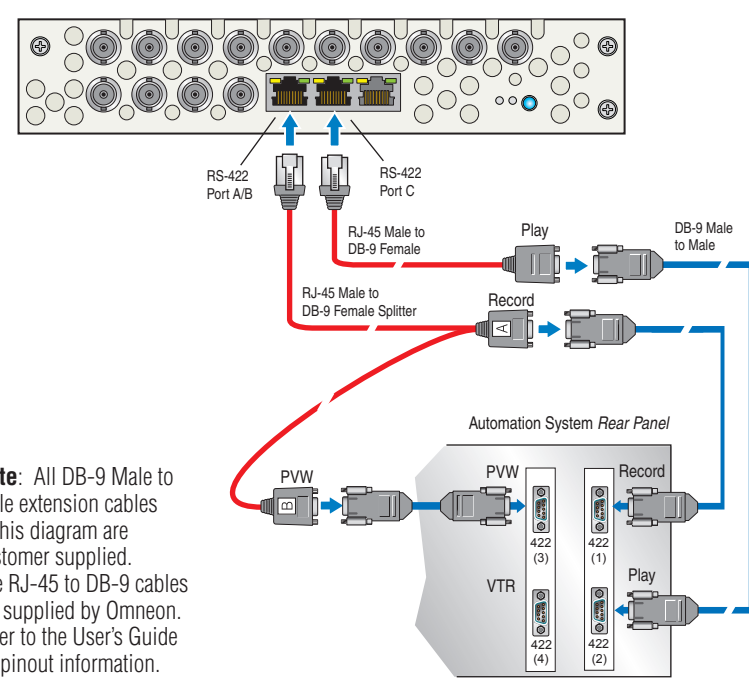


6 Connect to an Automation System (Optional)

Sample Automation System Connections

All automation systems differ in their array of control connectors and method of interfacing with the Omneon MediaDeck system. Two examples are provided below. Refer to the documentation supplied with your automation system for interconnection details.

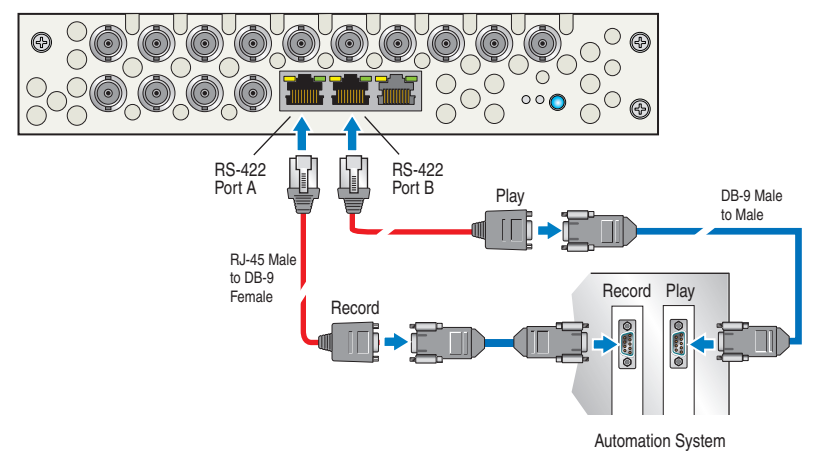
5000 Series SD MPEG-2/DV MediaDeck Module (MDM-5001)



Note: All DB-9 Male to Male extension cables in this diagram are customer supplied. The RJ-45 to DB-9 cables are supplied by Omneon. Refer to the User's Guide for pinout information.

5300 Series HD/SD MPEG-2 MediaDeck Module (MDM-5301)
5200 Series SD MPEG-2 MediaDeck Module (MDM-5201)

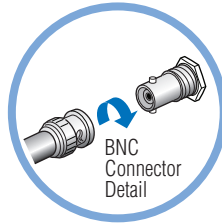
5320 Series HD/SD MPEG-2 Dual I/O MediaDeck Module (MDM-5321)
5220 Series SD MPEG-2 Dual I/O MediaDeck Module (MDM-5221)



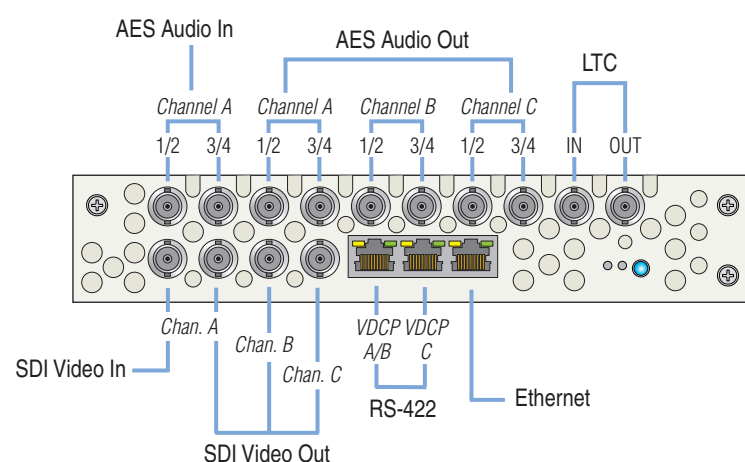
8 Connect Audio and Video I/O

The following diagrams describe the functionality of connectors for each Omneon MediaDeck Module. For detailed connection instructions, refer to the *Omneon MediaDeck™ User's Guide*. Your system configuration and specific audio/video requirements may differ.

Note: The labels on the rear panels of some early MDM-5301 modules differ from the connector descriptions shown here.



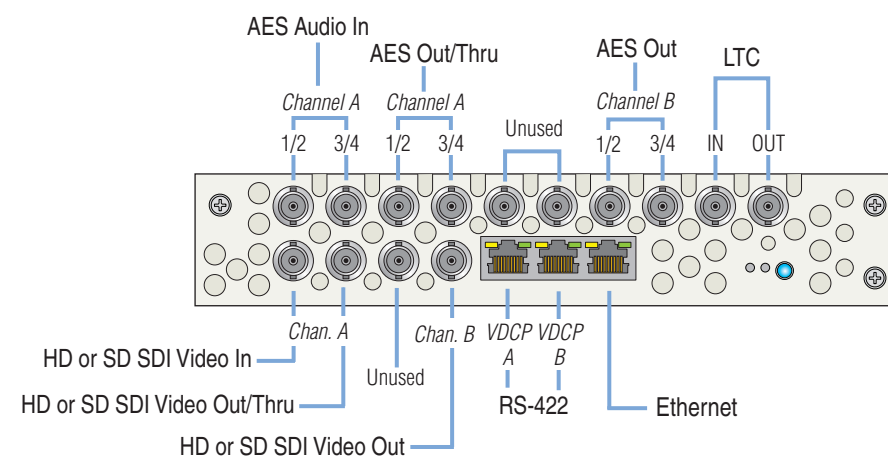
5000 Series SD MPEG-2/DV MediaDeck Module (MDM-5001)



5300 Series HD/SD MPEG-2 MediaDeck Module (MDM-5301)

5200 Series SD MPEG-2 MediaDeck Module (MDM-5201)

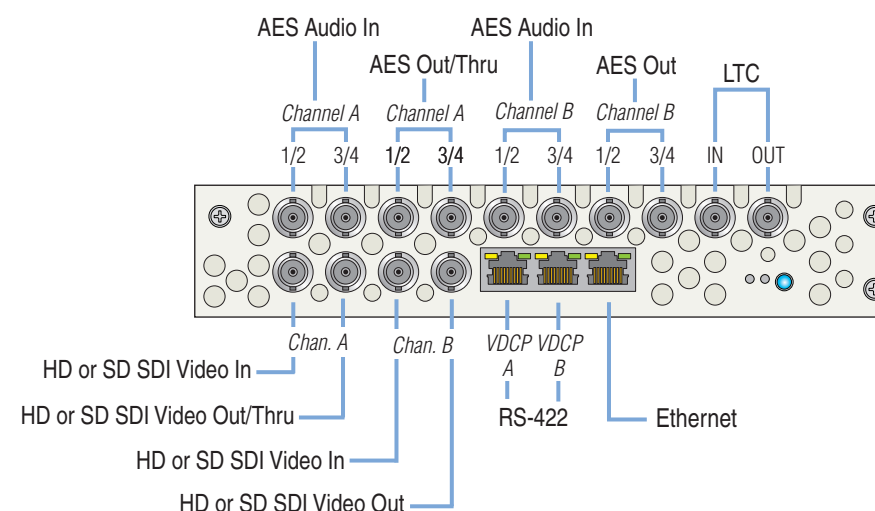
Note: The MDM-5201 provides support for SD only.



5320 Series HD/SD MPEG-2 Dual I/O MediaDeck Module (MDM-5321)

5220 Series SD MPEG-2 Dual I/O MediaDeck Module (MDM-5221)

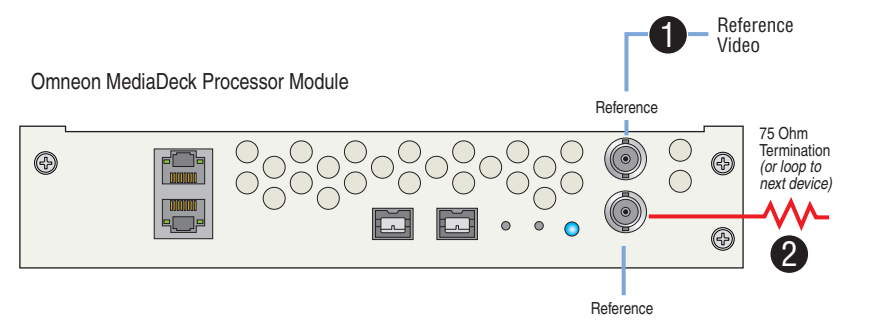
Note: The MDM-5221 provides support for SD only.



7 Connect Reference Video

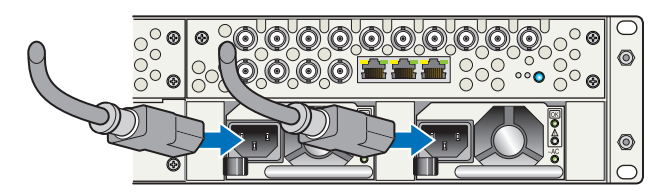
Reference video should *always* be connected to the Omneon MediaDeck. Failure to connect reference video may result in errors.

1. Connect reference video to one of the **Reference** connectors.
2. Connect a 75 Ohm BNC terminator to the other **Reference** connector to terminate it, or connect it to the next device in line that requires reference video. **Note:** Termination must be applied to the last device in the loop.
3. If required, configure VITC lines using the SystemManager. For details, refer to "Changing Omneon MediaDeck Clock Reference VITC Lines" in the *Omneon MediaDeck™ User's Guide*.



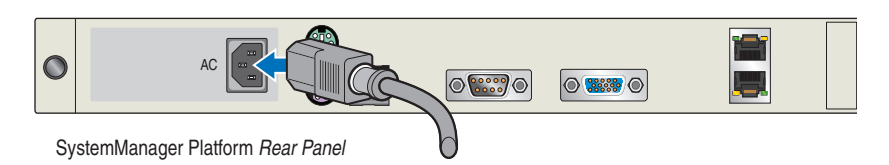
9 Connect AC Power

1. If you are connecting to an automation system, make sure the power switch on the automation system is off. Attach an AC cord to the AC connector on the automation system.
2. Omneon MediaDecks do not have any power switches. To take full advantage of the dual redundant power supplies on the Omneon MediaDeck, ensure that separate, isolated power sources are available. Connect AC cords to the two AC connectors on the Omneon MediaDeck.

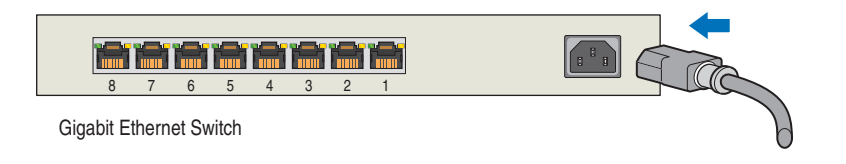


Important: Do not plug the AC cords into AC power sources yet. Connecting to an AC power source will turn on the Omneon MediaDeck.

3. Make sure that the power switch for the SystemManager Platform or client PC is off, and that the power switch for the Keyboard/Monitor Tray is off as well. Attach an AC cord to the AC connector on your SystemManager Platform or client PC, as well as your SystemManager Keyboard/Monitor Tray.



4. Connect an AC cord to the AC connector on the Ethernet switch (or hub). Do not plug the AC cord into an AC power source yet.



Continue to Step 10 on the Next Page