

# NEXUS™

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## System Diagrams













**END-TO-END** Solutions for  
Broadcast & Streaming

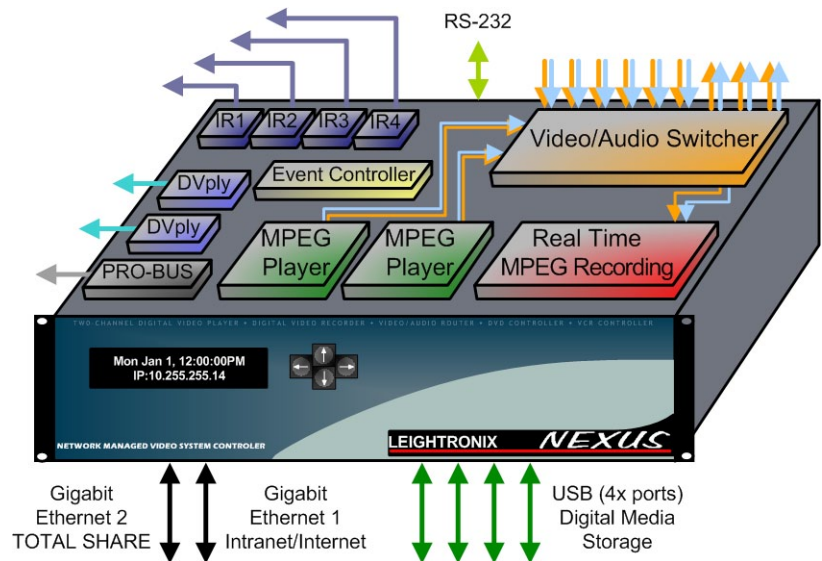
# LEIGHTRONIX

# Connectivity

## Key:

-  Composite Video
-  Analog Audio (line level)
-  Analog Audio (microphone)
-  Network
-  RS-232
-  USB
-  PRO-BUS
-  DVply
-  Integrated IR
-  Cable TV

- Video/Audio Routing Switcher: Internal 8x4 switcher provides six external inputs and three external outputs. Inputs 7-8 are internally wired to the MPEG playback channels (decoders). Output 4 is internally wired to the MPEG recorder (encoder).
- RS-232: Serial data port for external routing switcher control
- Network 1: TCP/IP, gigabit Ethernet, user-configurable IP address, subnet, and gateway
- Network 2: Gigabit Ethernet, dedicated port for use with the TOTAL SHARE™ network attached storage (NAS) option
- USB: 4 USB ports for connection of digital media storage devices
- PRO-BUS™: Single PRO-BUS connection for up to 16 device control interfaces (sold separately)
- DVply™: Two advanced DVD player control ports, RS-232, support for select DVD players
- Integrated Infrared: Four IR ports for standard device control, support for a variety of popular DVD players



## Resources

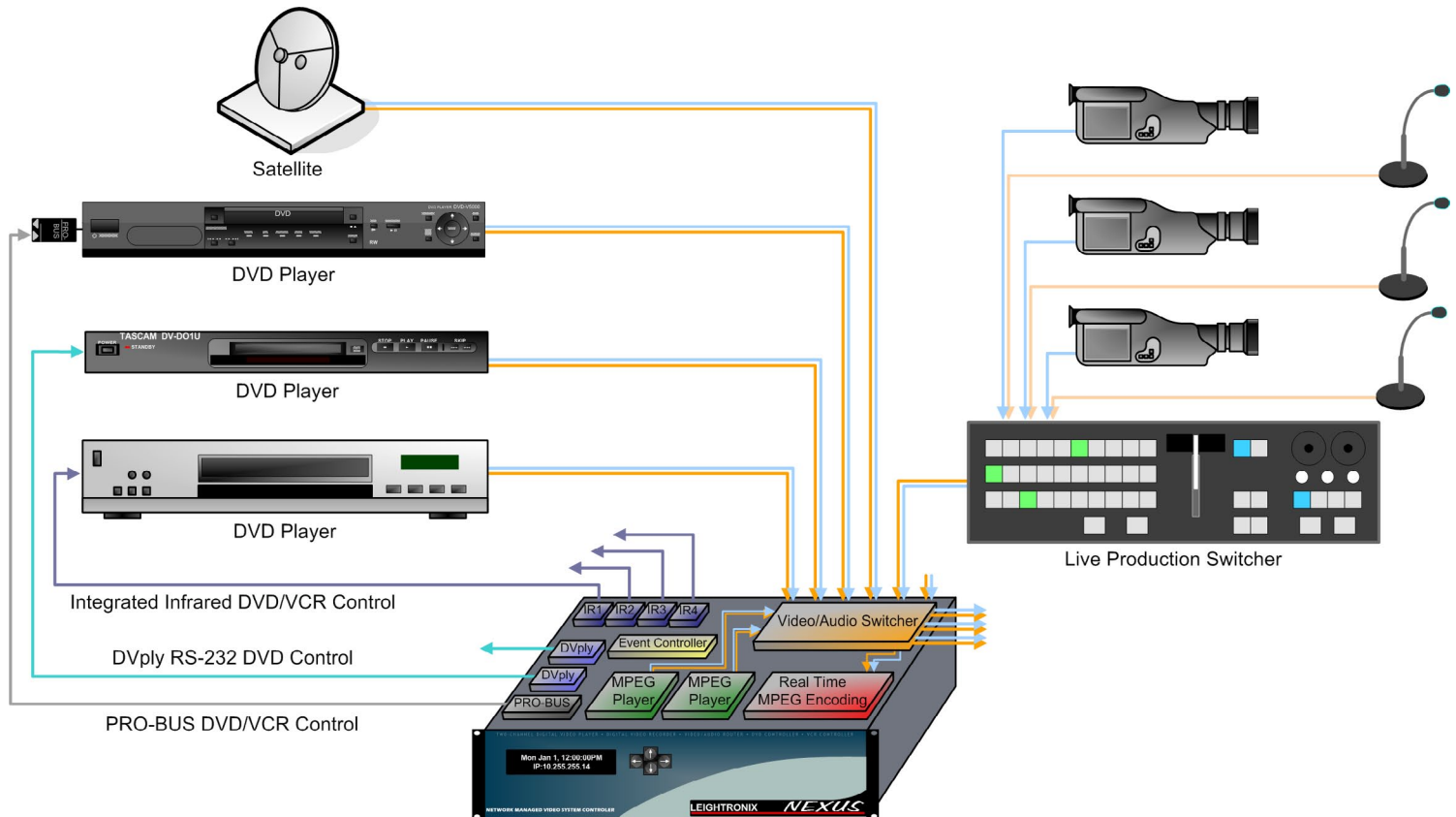
- [USB Digital Media Storage](#)
- [TOTAL SHARE and NAS Digital Media Storage](#)
- [Device Control](#)

# Inputs

**Key:**

- Composite Video
- Analog Audio (line level)
- Analog Audio (microphone)
- Network
- RS-232
- USB
- PRO-BUS
- DVply
- Integrated IR
- Cable TV

The NEXUS® is equipped with an internal 8x4 video/audio routing switcher. A vast assortment of controlled (VCR or DVD) and/or uncontrolled (studio feed or satellite receiver) devices may be connected for recording or broadcast. All-level switching allows any input source to be passed through to any/all of the three external outputs for broadcast or preview as well as routed for recording to the MPEG recorder (encoder).













**Resources**

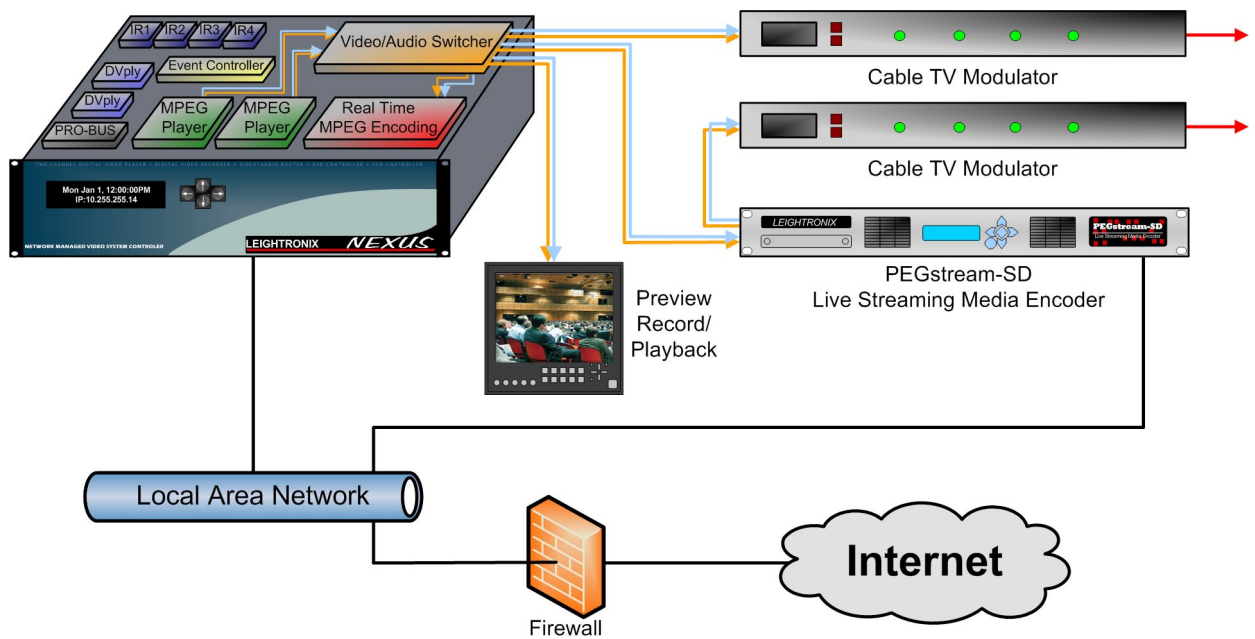
- [Device Control](#)

# Outputs

## Key:

-  Composite Video
-  Analog Audio (line level)
-  Analog Audio (microphone)
-  Network
-  RS-232
-  USB
-  PRO-BUS
-  DVply
-  Integrated IR
-  Cable TV

Outputs 1–3 are on the back panel. Output 4 is internally wired to the MPEG recorder (encoder). Any input's source may be routed to any output, providing absolute flexibility. Possible output destinations include a broadcast transmission system, cable television modulator, a preview monitor, or the LEIGHTRONIX PEGstream-SD™ live streaming media encoder. The NEXUS is equipped with two MPEG playback channels. As a default setting during scheduling, MPEG player 1 is automatically routed to Output 1 and MPEG player 2 is automatically routed to Output 2. Output 3 is commonly used as a preview output. For expanded digital playback channel capacity, multiple NEXUS series video servers can be combined in a modular video server system with the TOTAL SHARE option.



## Resources

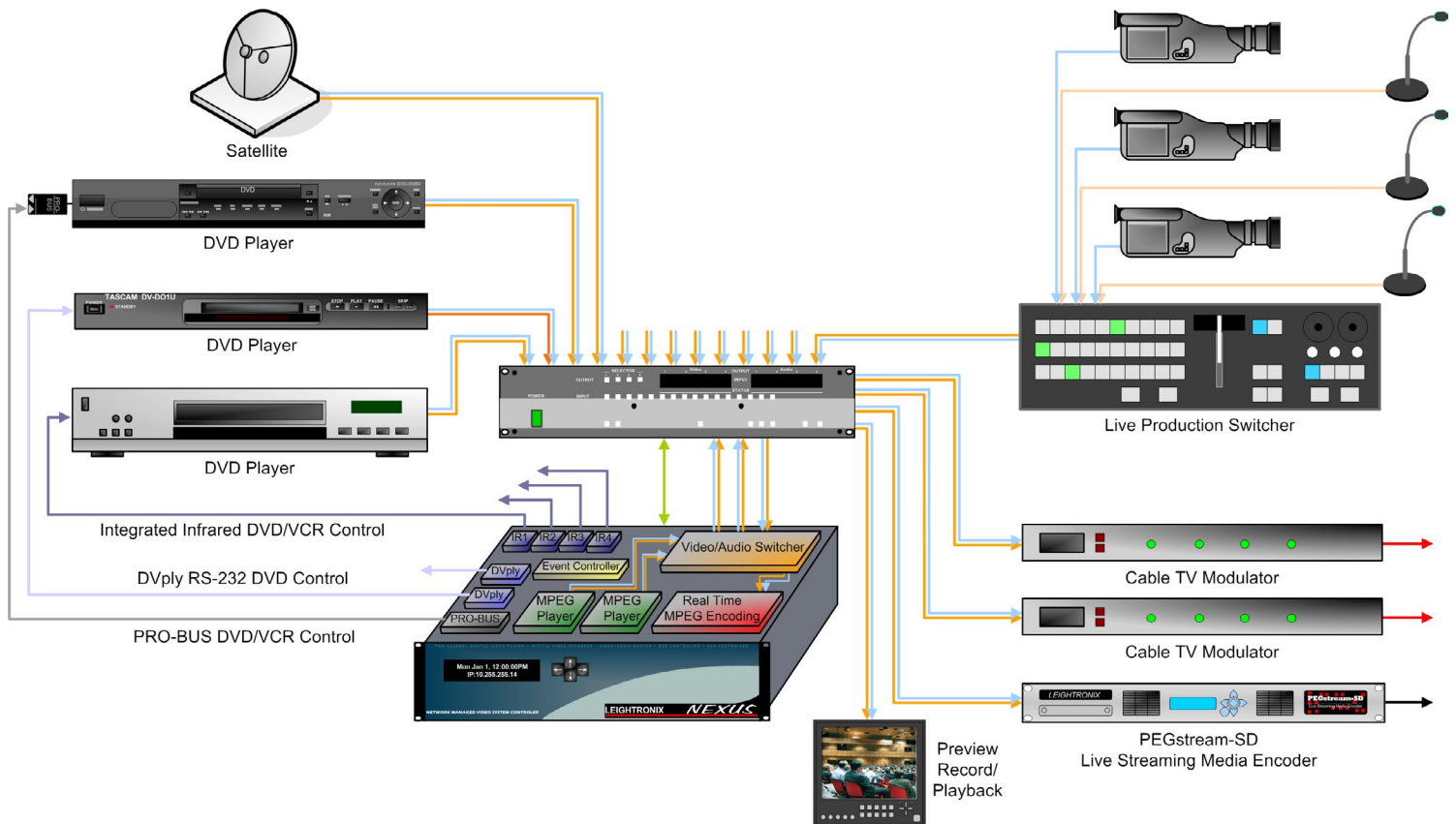
- [PEGstream-SD Live Streaming Media Encoder](#)
- [TOTAL SHARE and Multi-Channel Modular Server Systems](#)

# External Switcher Control

**Key:**

- Composite Video
- Analog Audio (line level)
- Analog Audio (microphone)
- Network
- RS-232
- USB
- PRO-BUS
- DVply
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- Cable TV

The NEXUS interfaces with a wide range of popular video/audio routing switchers as large as 32 inputs by 32 outputs, allowing an expanded number of controlled (VCR or DVD) and uncontrolled (studio feed or satellite receiver) to be connected for recording and/or broadcast. When using an external switcher, the internal switcher is disabled, Outputs 1-2 are automatically switched to MPEG Players 1-2 respectively, and Input 1 is automatically switched to the MPEG recorder (encoder). The NEXUS is equipped with an RS-232 serial data control port (COM 1), providing direct connection to an external switcher for control and status.













**Resources**

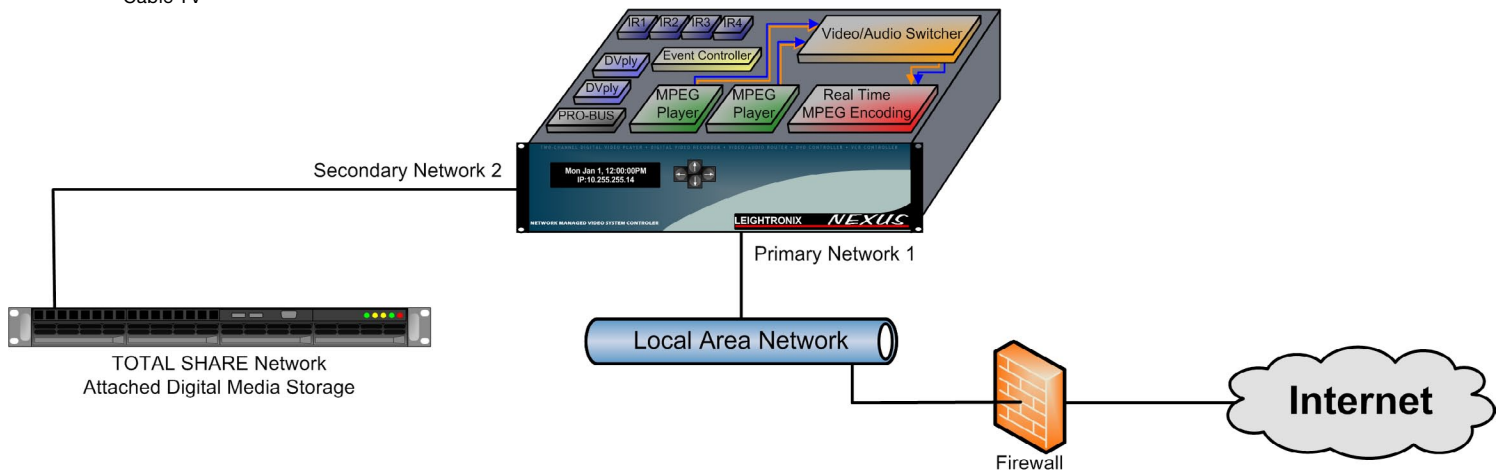
- [Listing of Supported Routing Switchers](#)

# Network

**Key:**

-  Composite Video
-  Analog Audio (line level)
-  Analog Audio (microphone)
-  Network
-  RS-232
-  USB
-  PRO-BUS
-  DVply
-  Integrated IR
-  Cable TV

The NEXUS is equipped with primary and secondary gigabit Ethernet network ports. The primary Ethernet port is ready for connection via a local network or direct connection to the Internet and is easily configured from the front panel (IP address, subnet, and gateway). The secondary port is reserved for configuration of a private digital media storage network using the TOTAL SHARE option and NAS storage devices.













**Resources**

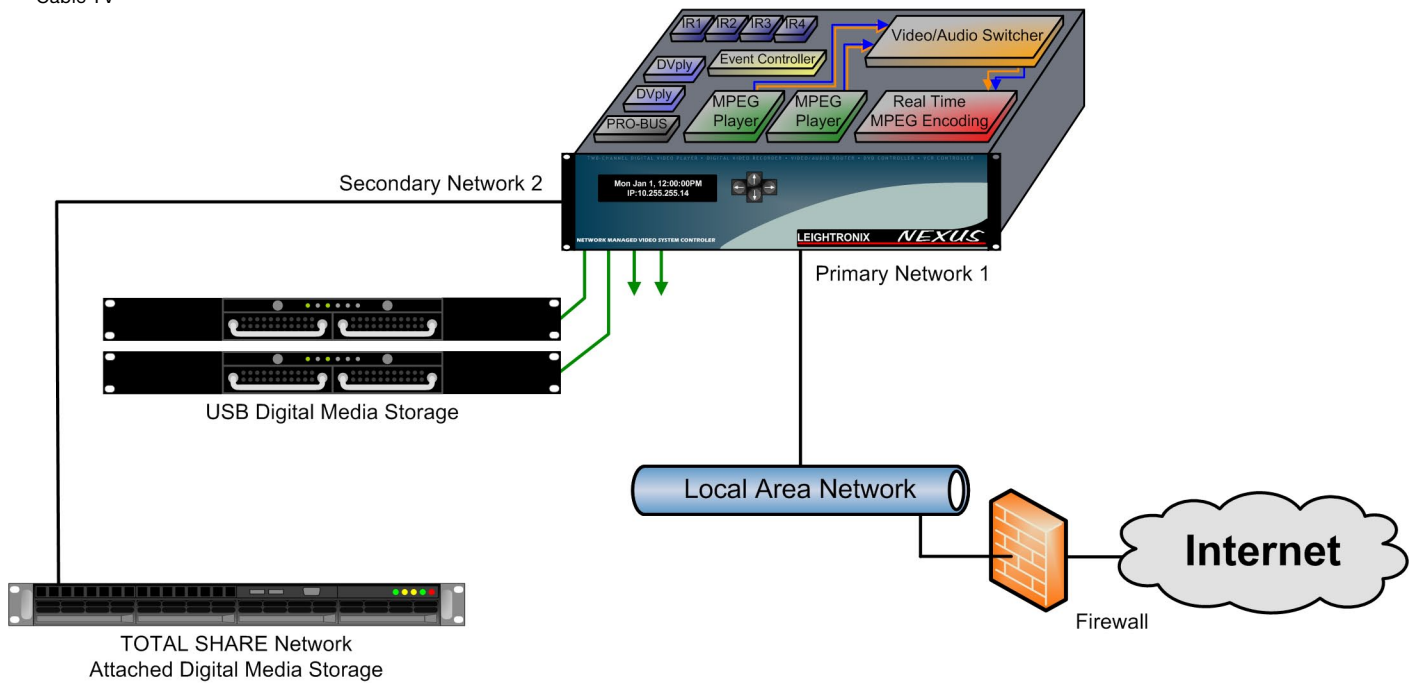
- [TOTAL SHARE and NAS Digital Media Storage](#)

# Digital Media Storage

**Key:**

-  Composite Video
-  Analog Audio (line level)
-  Analog Audio (microphone)
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-  DVply
-  Integrated IR
-  Cable TV

The NEXUS has an overall digital media storage capacity of 5 terabytes (TB). USB storage is user-scalable to 1TB and supports up to four external hard drive arrays. An additional 4 TB of storage may be configured using the secondary network port and the TOTAL SHARE option.













**Resources**

- [USB Digital Media Storage](#)
- [TOTAL SHARE and NAS Digital Media Storage](#)

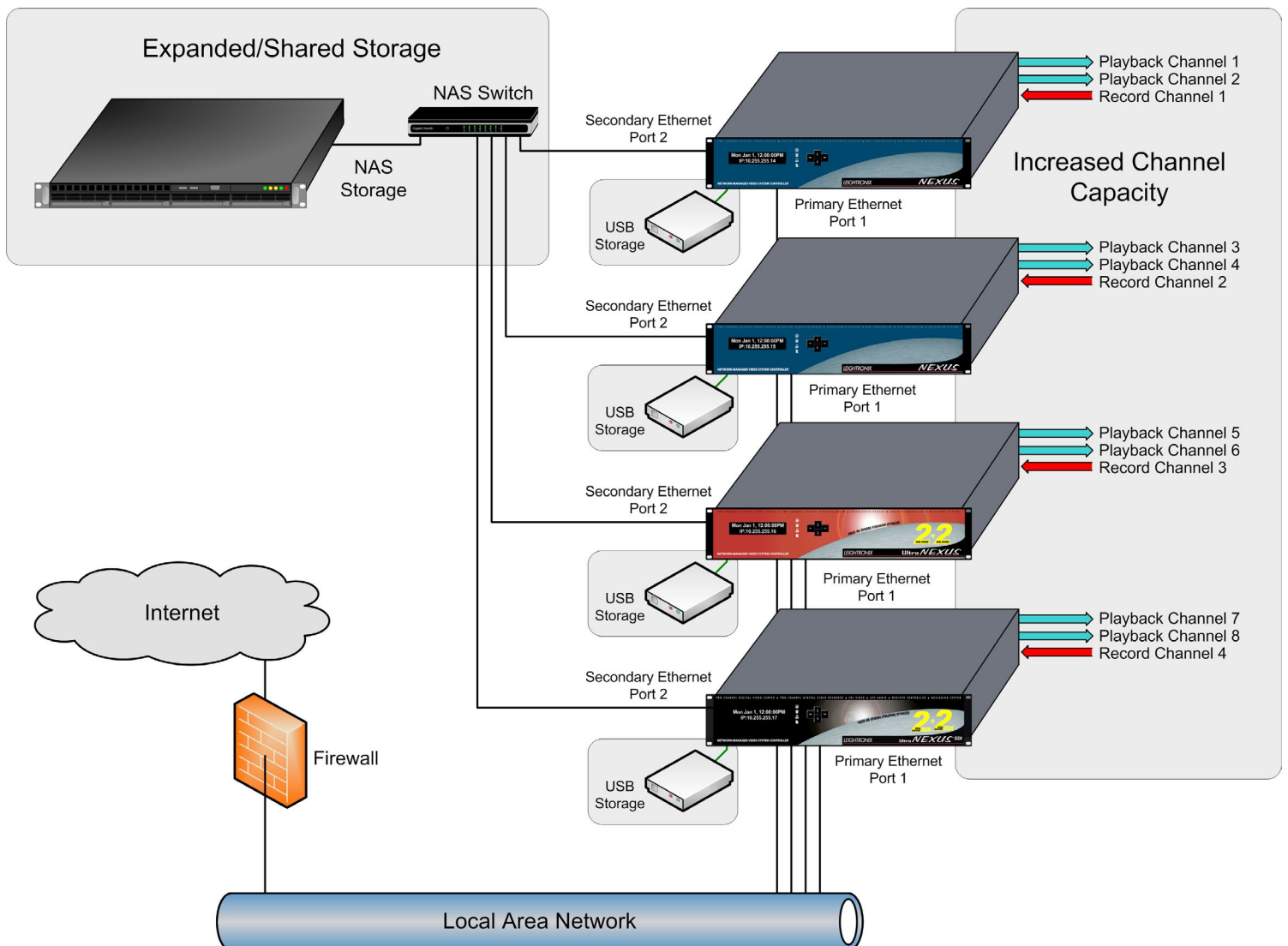


# TOTAL SHARE

**Key:**

-  Composite Video
-  Analog Audio (line level)
-  Analog Audio (microphone)
-  Network
-  RS-232
-  USB
-  PRO-BUS
-  DVply
-  Integrated IR
-  Cable TV

The TOTAL SHARE option increases the overall storage capacity for an individual video server and also allows multiple servers to share video content in a modular multi-channel server system.



**Resources**

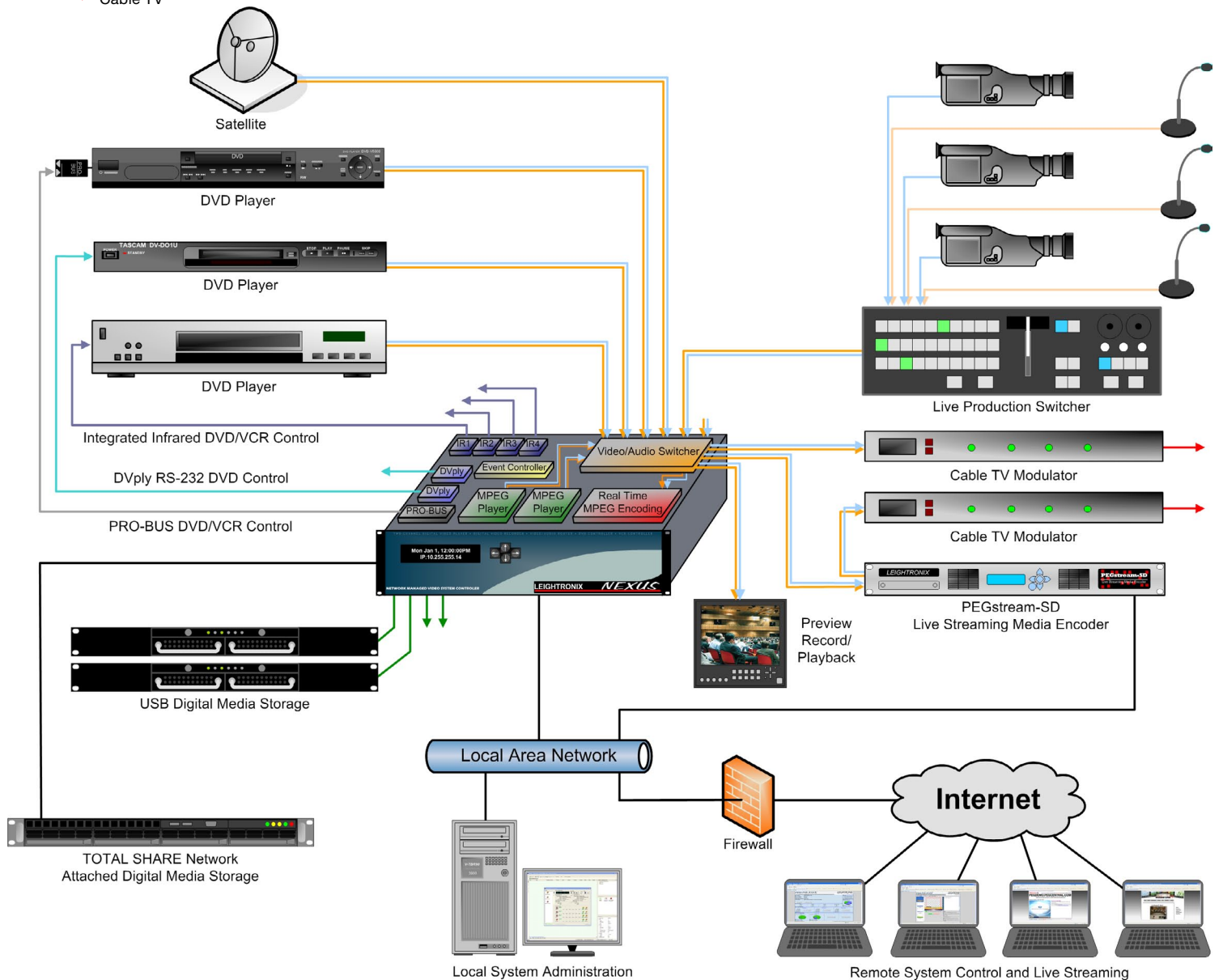
- TOTAL SHARE



# Typical System Diagram

**Key:**

- Composite Video
- Analog Audio (line level)
- Analog Audio (microphone)
- Network
- RS-232
- USB
- PRO-BUS
- DVply
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- Cable TV



# Typical System Diagram with External Switcher

**Key:**

- Composite Video
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- Analog Audio (microphone)
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- Cable TV

