

# Digital Media Storage

## for NEXUS Series Video Servers

LEIGHTRONIX NEXUS® series video servers feature scalable, external digital media storage via Universal Serial Bus (USB) and Network Attached Storage (NAS) hard drive arrays. External server storage has proven to be an effective and innovative feature of LEIGHTRONIX video server technology. NEXUS series storage options allow you to configure a video server system for your current needs while making it easy and affordable to expand your capacity in the future, without sending your server back to the factory. Simply plug in additional LEIGHTRONIX USB or NAS storage devices and double, triple, or quadruple your storage!

- Increased Media Storage Capacity at a Lower Cost
- Flexibility in Storage Options
- Easy System Configuration
- Immediate Storage Expansion

### USB and NAS Storage

Each video server is equipped with four USB 2.0 data ports and supports a combination of up to four external USB storage devices. Storage capacity may be expanded by using the TOTAL SHARE™ option and up to four NAS storage devices, connected via a private, dedicated digital media storage network.

Model	USB Storage Capacity	NAS Storage Capacity	Overall Storage Capacity
NEXUS	1 Terabyte	4 Terabytes	5 Terabytes
UltraNEXUS™/UltraNEXUS-SDI™	4 Terabytes	16 Terabytes	20 Terabytes

### USB Storage Devices

The LGX-500GBR-D, LGX-1TBR-D, and LGX-2TBR-D are high performance USB hard drive arrays featuring full data redundancy. Each model is equipped with dual hard drives, configured in RAID 1 mode, providing fully mirrored data (the drives are exact copies of each other). Each USB drive enclosure is rack mountable and occupies only one rack unit of space.

#### LGX-500GBR-D

Drive Configuration: 500GB x 2, RAID Mode 1, Storage Capacity 500 Gigabytes

#### LGX-1TBR-D

Drive Configuration: 1000GB x 2, RAID Mode 1, Storage Capacity 1 Terabyte

#### LGX-2TBR-D

Drive Configuration: 2000GB x 2, RAID Mode 1, Storage Capacity 2 Terabytes,  
Use with UltraNEXUS and UltraNEXUS-SDI Video Servers Only



The LGX-500GBR-D, LGX-1TBR-D, and LGX-2TBR USB hard drive arrays provide extensive storage capacity options for NEXUS series video servers. Each drive enclosure only occupies one rack unit of space.

### NAS Device

The LGX-4TBR-N is equipped with four hard disc drives and is configured and shipped in RAID 1+0 mode, providing mirrored data and a storage capacity of 4 terabytes. The LGX-4TBR-N is rack mountable and occupies only one rack unit of space.



LGX-4TBR-N NAS Hard Drive Array

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

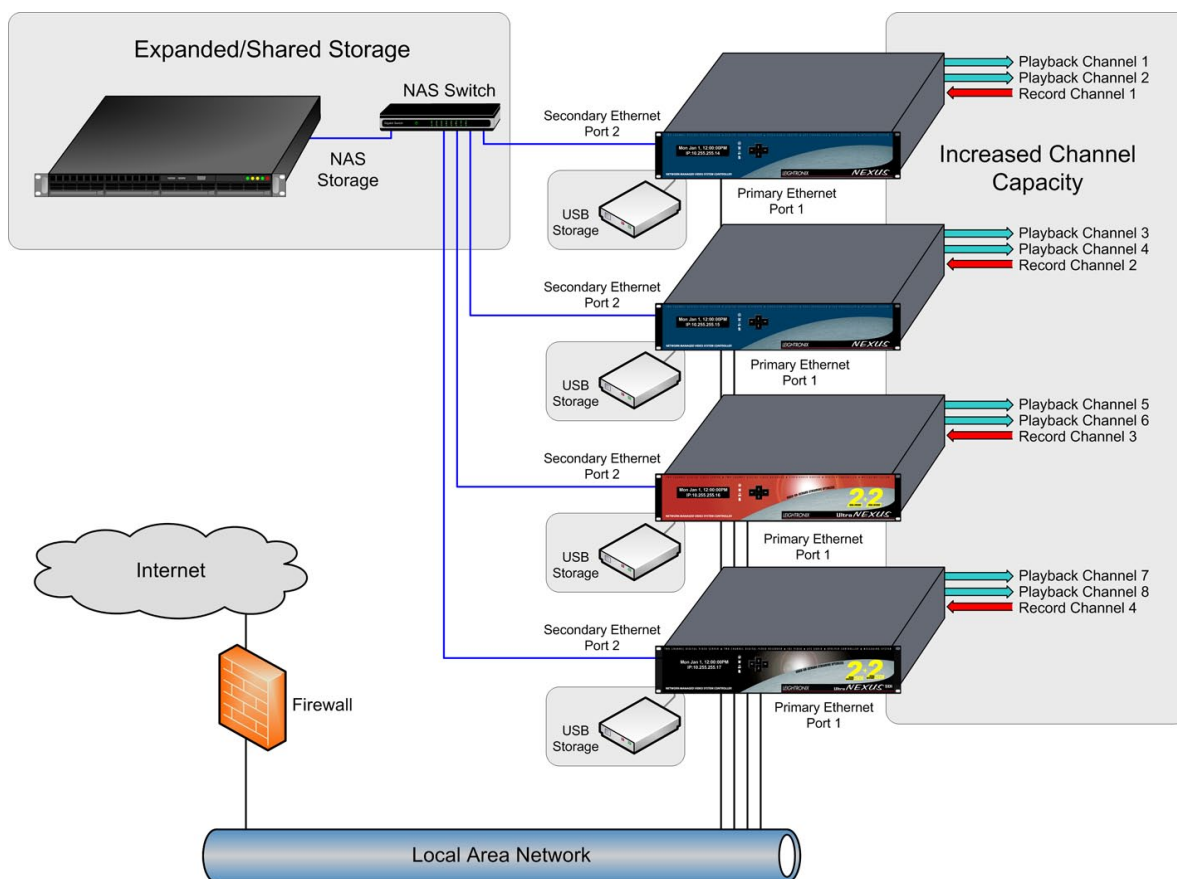
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## TOTAL SHARE

The LEIGHTRONIX TOTAL SHARE option allows users with NEXUS series products to increase both local digital media storage and overall digital playback/record channel capacity through a dedicated, high-speed network. With TOTAL SHARE, users can create a modular video server system that supports a combination of up to four NEXUS series video servers and up to four NAS devices. Digital media on the NAS is common to all servers while USB storage is only available to the individual video servers. All NEXUS series servers connected through a TOTAL SHARE network are controlled from a single user interface via the WinLGX software.

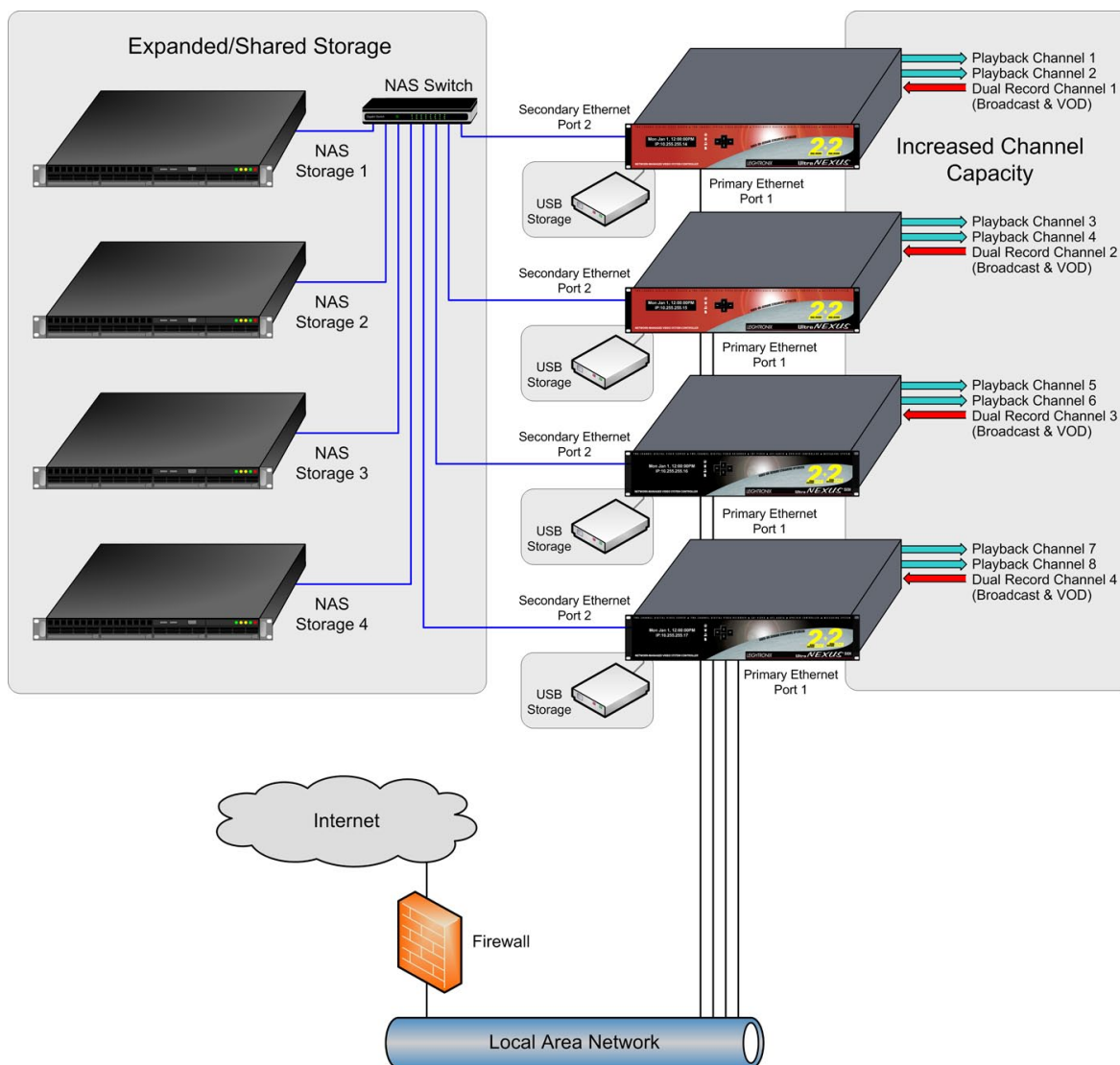
## NEXUS Series

Up to four NEXUS, UltraNEXUS, and/or UltraNEXUS-SDI video servers may be connected to a single common NAS device. Server systems that include the original NEXUS model are limited to a 4 TB capacity and a single NAS storage device.



## UltraNEXUS and UltraNEXUS-SDI

Server systems based on the UltraNEXUS and/or UltraNEXUS-SDI video servers support up to 16 TB of NAS storage and may be configured with up to 4 NAS storage devices.



## About Digital Media Storage Capacity

*Why does the NEXUS/UltraNEXUS system report my 500GB drive as 466GB?*

Hard drive manufacturers provide drive capacity specifications in decimal gigabytes (GB). The prefix giga refers to one billion, or in the decimal number system, ten to the power of nine ( $10^9 = 1,000,000,000$ ). A 500GB hard drive would have no less than 500,000,000,000 bytes of data space.

In the digital computing world, where memory and storage calculations are based on the binary number system (zeros and ones), a gigabyte is equal to  $2^{30} = 1,073,741,824$ . Each time a 1 GB file is saved on the hard drive, it will occupy 1,073,741,824 bytes, which is more than the 1,000,000,000 bytes in the decimal number system. To predict the actual binary capacity of a hard drive, simply divide the drive capacity by 1,073,741,824: 500GB drive = 500,000,000,000 bytes / 1,073,741,824 = 465.661128 GB (binary).

## Questions?

For more details on video server storage, visit [leightronix.com/sharedstorage](http://leightronix.com/sharedstorage).

[www.leightronix.com](http://www.leightronix.com) | (800) 243-5589 | 2330 Jarco Dr, Holt, MI 48842

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