

QUADStor™ NVR 400 SERIES NETWORK VIDEO RECORDER



Networked IP Video Solution

- Capture
- Store
- View

Linear®



Make Linear's QUADStor™ Network Video Recorder (NVR) the cornerstone of your modern IP video system.

Built for speed and ease-of-use, this embedded NVR is a cost-effective choice for your video surveillance and security needs. Featuring easy-to-upgrade and install Hard Disk Drives (HDDs) and a native On Screen Display (OSD) that's easy to navigate with a mouse on any monitor you choose.

Linear's QUADStor NVR comes with a Quick Setup menu for fast installation, and can support two networks, so that IP Cameras can be isolated on a separate network to reduce bandwidth on the Local Area Network (LAN), if desired.

The QUADStor makes it simple to view, search and archive video using today's most popular web-browsers that support Flash®. Designed with your busy schedule in mind, the browser interface mimics the NVR's OSD, so that you'll only need to know one interface. Additionally, QUADStor is mobile-friendly; you can view video on your iPhone®, iPad® or Android® device using the free QUADView™ NVR app.

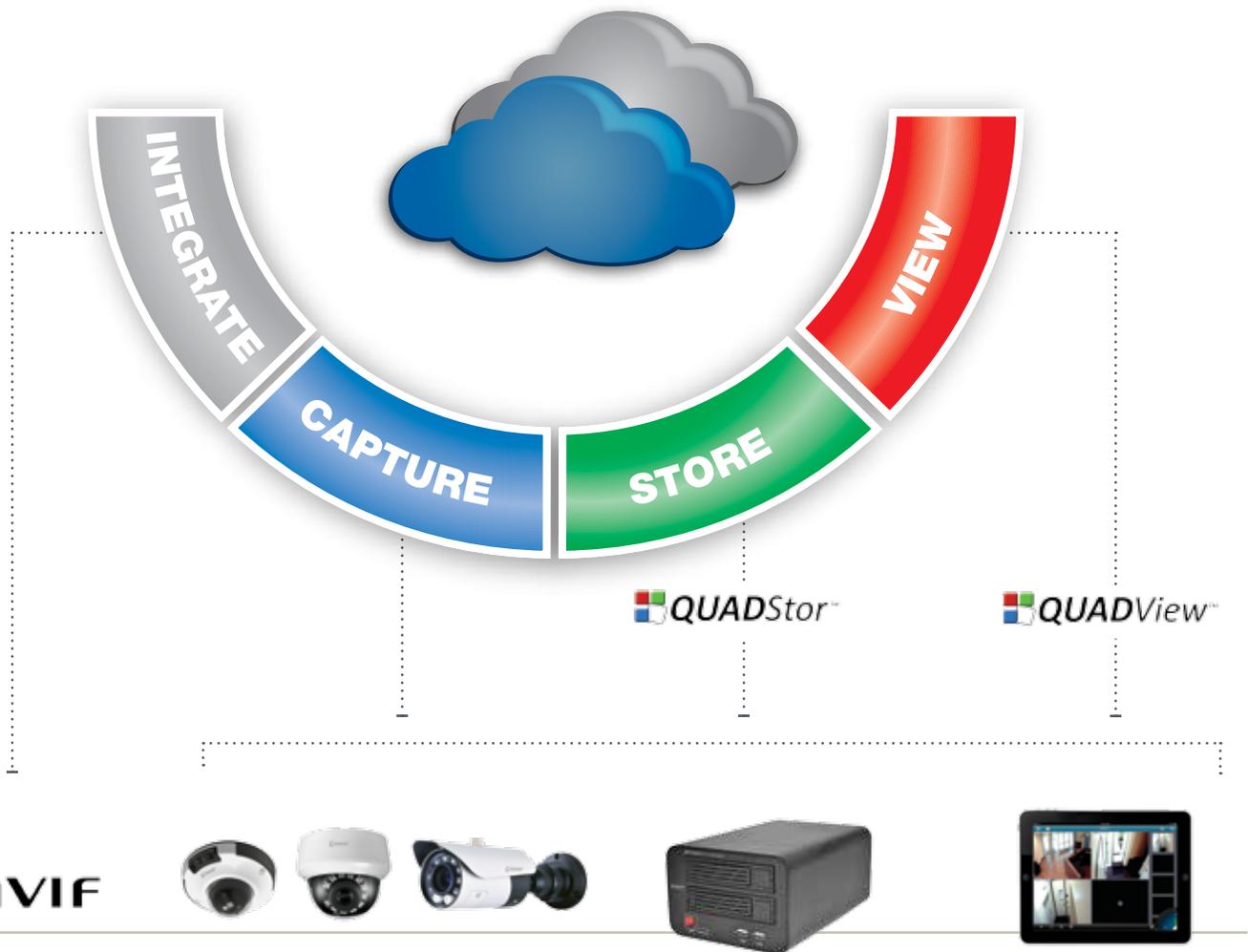
QUADStor NVR is designed to work with Linear IP cameras. Linear IP cameras are ONVIF compliant, so they integrate easily with third-party VMS solutions

LINEAR OFFERS A COMPLETE IP VIDEO SOLUTION

The Linear video eco-system provides the products, technology, and integration to make a system easy to deploy and support.

Applications

Ideal for small to mid-sized business, residential and commercial applications needing up to 16 IP cameras.



INTEGRATE

Integrate video with other platforms and software using ONVIF standards.

CAPTURE

The higher the megapixel number, the higher the resolution and larger the video files are to transmit and store. Pick from 2, 3 or 5 MP IP cameras.

STORE

Video is stored on the NVR for playback and forensic purposes. Linear uses Audio Video (AV Class) hard disk drives (HDDs) for optimum storage performance & reliability.

VIEW

View live video or retrieve video from the NVR using a multitude of software applications including iOS® (iPhone® & iPad®), Android®, PC and Mac platforms.

QUADStor NVR 400 Features

- H.264 video compression
- Native On-Screen Display with full mouse control
- 1080p high definition output, HDMI or VGA
- Removable HDDs, two drive bays
- Up to 8TB storage, AV Class HDDs
- Easy-to-use GUI
- Supports Linear 2, 3* & 5* megapixel Cameras
- Free DDNS, to create a domain name for the NVR instead of using an IP address
- Remote view from web browser
- Live view on your mobile devices via **QUADView™** NVR app for iOS® or Android®

* Note: Video playback from 3 & 5 MP cameras is not supported by NVR OSD, instead use web browser GUI to view video playback.



Browser GUI

Browser GUI for NVR and IP cameras for remote monitor, playback of NVR video; uses Flash® technology and is compatible with Internet Explorer®, Chrome®, Safari®, Firefox® and Opera®.



Browser GUI supports most popular Web Browsers.



Quick Start

Quickly and easily configure the QUADStor™ NVR using the On Screen Display's Quick Setup tab to:

- Set & manage IP addresses
- Manage cameras
 - Motion detection
 - Stream configuration
- Sync cameras with NVR date & time
- Configure user accounts
- Manage storage and hard disk use
- Preview video



Live Video

View live video from multiple IP cameras:

- Full screen and various layouts
- Create video bookmarks
- Access alarm log
- Monitor recording status
- PTZ control
- Audio monitoring
- Adjust camera sensor configuration



Search, Playback & Archive Video

Search and playback recorded video from one or more cameras. Use the calendar to select the date. Manage video playback by using the timeline and video controls. Find events easily with video "event tagging" as shown in red on the timeline. Archive video to other media for long-term storage.



Remote Access: QUADView™ NVR

Remotely view and control video from your Apple® iPhone®, iPad®, Android® device, or computer. View video from multiple locations, search and playback video. See who, what, where, anytime you are not there.



Download QUADView™ NVR today!
Available at Apple® App Store or Google® Play Store

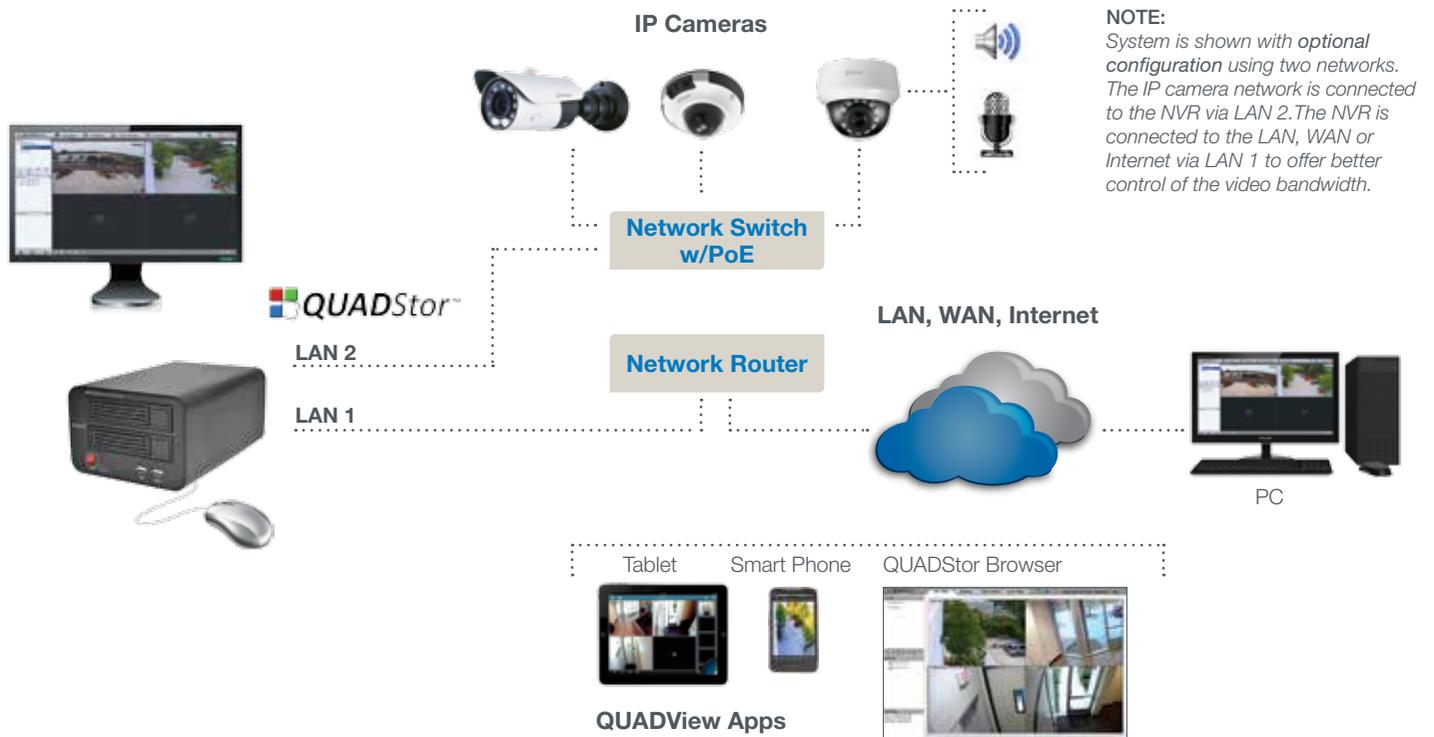
Recording & Bandwidth Estimation Table

The NVR supports a maximum of 24 Mbps total bandwidth. The recording matrix below approximates the number of days for video storage for both constant recording and motion-based recording.

# IP Cameras	Video Resolution	FPS	Bit Rate (Mbps)	Total Mbps	Image Quality	CONSTANT RECORDING MATRIX				MOTION-BASED RECORDING MATRIX					
						Record Hours/Day	Days of Storage				Record Hours/Day	Days of Storage			
							2TB	4TB	6TB	8TB		2TB	4TB	6TB	8TB
4	1920 x1080	5	2	8	Medium	24	23	46	69	93	12	46	93	139	185
		30	5	20	Highest		9	19	28	37		19	37	56	74
8	1920 x1080	5	2	16	Medium	24	12	23	35	46	12	23	46	69	93
		30	3	24	Medium		8	15	23	31		15	31	46	62
12	1920 x1080	5	1.5	18	Standard	24	10	21	31	41	12	21	41	62	82
		30	2	24	Medium		8	15	23	31		15	31	46	62
16	1920 x1080	5	1.5	24	Standard	24	8	15	23	31	12	15	31	46	62
		30	1.5	24	Standard		8	15	23	31		15	31	46	62

This table represents ideal video recording results based on H.264 Base Profile, audio off, I-Frame interval set to 1, and constant bit-rate. For constant recording, 24 hours per day is used. For motion-based recording, 12 hours per day is used. Reducing the frame rate and/or the number of hours video is recorded per day will provide more days of storage. Actual results may differ by ±10%.

System Diagram



MODEL: LV-QSN400 SERIES

VIDEO

Recording	4 Cameras 1080p / 720p real-time video
Maximum Recording	Up to 16 Cameras, maximum bit rate is 24 Mbps for all cameras
Output Display	Switch to select VGA or HDMI
Output Resolutions	1024x768, 1280x720p or 1920x1080p
Video Decoding	H.264, M-JPEG, MPEG-4 (Decode 2MP stream on supported cameras)
Supported Cameras	Linear LV series IP cameras, 2MP, 3MP* and 5MP*
Rate Control	CBR (Constant Bit Rate), VBR (Variable Bit Rate) as defined by IP device

STORAGE

HDD	2 HDD Drive Bays; Removable; Supports up to 2x 4TB HDD (AV Class, SATA)
Recording Method	Constant recording or motion detection

CONNECTIONS

Power Switch	Power switch for main power
Network	1x 1000 Mbps RJ45 Ethernet; 1x 100 Mbps RJ45 Ethernet
Video Outputs	One DVI connector with a DVI-VGA DB15 adapter, one DVI-HDMI adapter
Audio Input	1x 3.5mm audio input (Mic)
Audio Output	1x 3.5mm audio output
USB	3 USB 2.0 ports. Supports USB mouse (included), supports USB keyboard (not included)

NETWORK

Web Server	Flash video, multi browser, ActiveX
Network Protocols	RTP/RTMP, RTSP, TCP/UDP, HTTP, DHCP, DNS client
DDNS Service Providers	NOIP (free service) & DynDNS

AUDIO

Audio Format	G711 A-Law, G711 U-Law, RAW_PCM
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USER INTERFACE

Local GUI	Languages supported: English, Chinese and Russian
PC Software	Web browser
Remote Apps	QUADView NVR apps for Apple® iOS® (iPhone® & iPad®) & Android® devices (Free download)
Compatibility	Internet Explorer®, Google® Chrome®, Safari®, Firefox®, Opera®

PHYSICAL

Power	12V DC ± 5%, 5A, external power supply unit requires 120 VAC
Mouse	USB mouse included
Cooling	Heat sink, cooling fan
Operating Humidity	20% - 80% RH
Regulatory	CE / FCC / RoHS compliant
Product Dimensions (LxWxH)	Chassis: 8.7" x 5.9" x 4.0" (220mm x 150mm x 100mm)
Product Weight	9.9lbs / 4.5kg

WARRANTY

2 Years for NVR, 3 years for HDDs

ORDERING INFORMATION

Model

Number	Description (these models include AV HDD'S)
LV-QSN402T	QUADStor NVR series 400, H.264, 2 HDD Bays, 2 TB Storage
LV-QSN404T	QUADStor NVR series 400, H.264, 2 HDD Bays, 4 TB Storage
LV-QSN406T	QUADStor NVR series 400, H.264, 2 HDD Bays, 6 TB Storage
LV-QSN408T	QUADStor NVR series 400, H.264, 2 HDD Bays, 8 TB Storage

Accessories**

Model

Number	Description
LV-HDD-2T	Hard Drive, 2TB, AV Class for Video Storage Systems
LV-HDD-3T	Hard Drive, 3TB, AV Class for Video Storage Systems
LV-HDD-4T	Hard Drive, 4TB, AV Class for Video Storage Systems

* Playback of 3 and 5 megapixel camera streams recorded on NVR will not playback using QUADView apps. Use browser GUI.

** Audio / video class hard disk drives

Specifications subject to change without notice.

Linear LLC | 1950 Camino Vida Roble | Suite 150 | Carlsbad, CA 92008 | 800.421.1587 | www.linearcorp.com

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