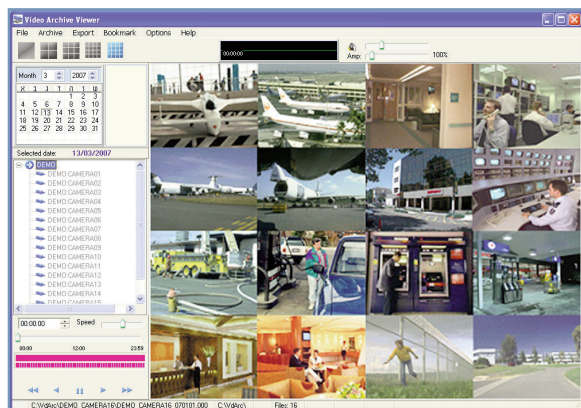




X-Net Network Video Recorder (NVR)



X-Net Network Video Recording solution

X-Net NVR is a powerful software solution for the Recording & Archiving of CCTV & associated security systems.

Based on industry standard PC hardware, the system is modular and scaleable and can scale up from tens to thousands of cameras.

X-Net NVR is designed to work seamlessly with the COE range of IP products (X-Net codecs & cameras, X-Net Video Intelligence System) and can also manage video from analogue cameras as well as 3rd party IP cameras.

System Features and Benefits

Fully integrated recording, video analytics and archiving solution - Reduces the number of systems to manage and maintain as well as providing a single user interface for maximum operator efficiency and reduced training costs.

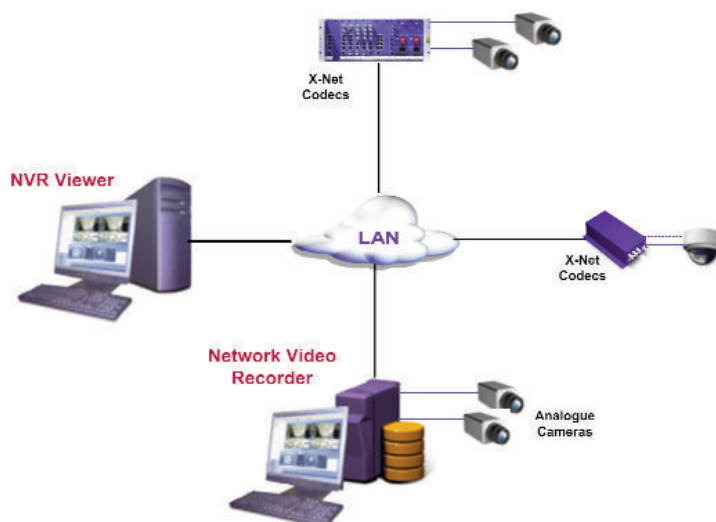
Multi format support - Support for MPEG4, MJPEG and H.264 video streams, future proofing your investment.

Full frame rate and resolution recording - X-Net NVR does not restrict the resolution and frame rate you can record at. As storage prices continue to reduce, storing long term recorded video at full frame rate and resolution is rapidly becoming cost effective and with NVR you don't have to pay anything extra when you decide to move to real time recording.

Flexible export options - The system can export video in a variety of ways including open standard .avi or jpeg files for importing into 3rd party applications or use in standard media players as well as a secure password protected, watermarked, CD/DVR-ROM with embedded viewer.

Open hardware and software architecture - The system works on industry standard PCs ensuring that you are not be tied to one hardware supplier or limited by obsolete hardware.

Support for a variety of storage devices - Support for RAID, NAS, SAN, iScsi and a variety of other storage interfaces for lower cost and flexibility of configuration.



DVR or NVR ?

There are several key differences between a Digital Video recorder (DVR) and a Network Video recorder (NVR):

DVRs are typically proprietary devices and contain an analogue to digital capture card. A DVR digitally compresses analogue video feeds from analogue and stores them on its hard drive. The DVR, therefore, has to be located near the analogue camera feeds.

NVRs are a software based product, installable on any off-the-shelf PC with a standard Ethernet interface for receiving video and controlling PTZ cameras. An NVR stores digital images directly from the IP network and can be located anywhere on the IP network.

In addition to its NVR functionality, X-Net NVR can utilise capture cards in order to encode analogue cameras in a similar way to a DVR. This is particularly useful when there are legacy analogue cameras that need incorporating into the digital recording system.

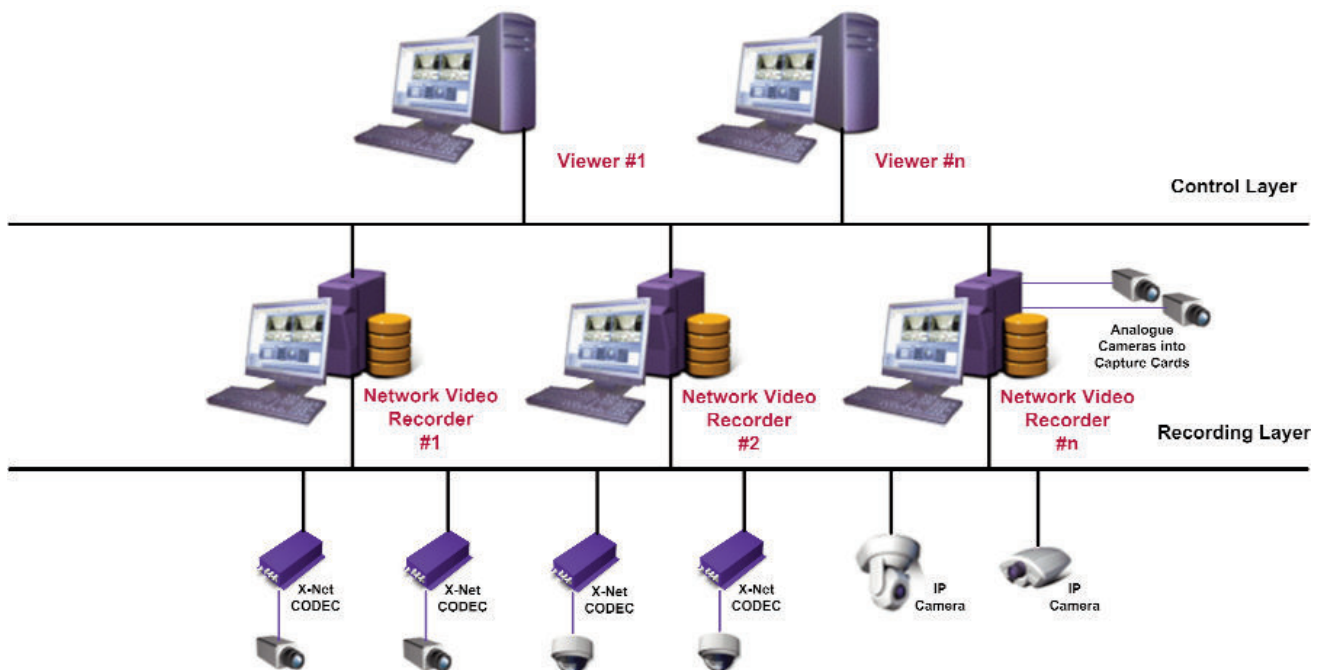
Digital Video Recorder

- Limited capture and internal storage - no flexibility.
- Frame rate is divided between multiple inputs.
- Little or no redundancy.
- Multiple single points of failure.
- Limited support for live viewing/streaming.
- Proprietary hardware - obsolescence.
- Specific compression algorithm - not future proof.

Network Video Recorder

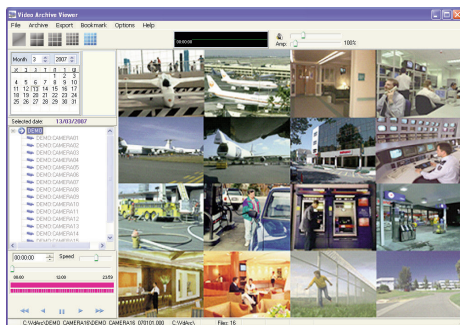
- + Scalable modular design - storage from 1 day to 1 year.
- + Complete control of each individual camera recording stream.
- + Raid 5 to RAID 15 no loss of data.
- + Resilient architecture - multi server, multi client - no single point of failure.
- + Ability to view all cameras anywhere on the network.
- + Re-useable hardware. Generic hardware - no single source of supply.
- + Support for different codecs and compression algorithms.

System Architecture

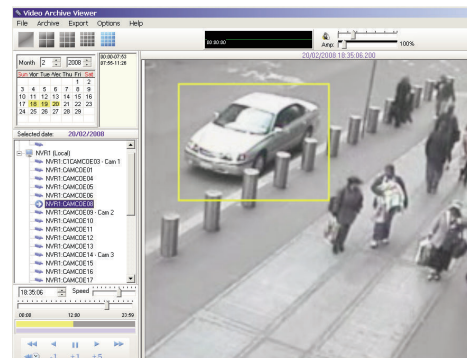


Unparalleled Scalability

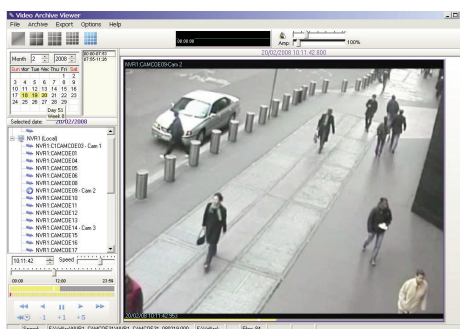
Surveillance systems are growing in size and complexity with new cameras and 3rd party devices being added regularly. Users today need a surveillance system which spans over multiple sites, can integrate with multiple devices and yet offers the operator a simple interface which hides the complexity of the underlying system. X-Net NVR has been designed with this very goal in mind. As a result, the system can scale up seamlessly from tens to thousands of cameras whilst providing a uniform command & control interface to manage a multitude of video and 3rd party devices. Features such as unrestricted recording resolution and frame rate (all the cameras can be recorded from QCIF at 1fps to 4CIF at 25fps without any restriction) and with the addition of the X-Net VMS and X-Net VI applications, network wide Operator access and integrated intelligent video analysis are available, thus ensuring that the system can grow with your requirements.



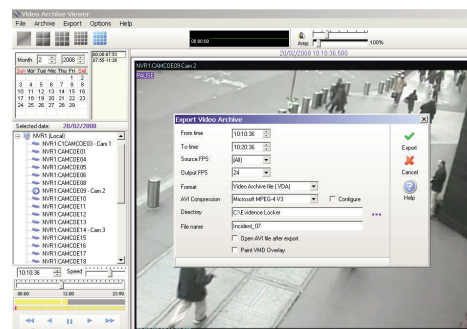
Multiple cameras can be displayed simultaneously to allow for quick identification of incidents.



X-Net Video Intelligence detects an illegally parked car. The camera is automatically displayed and recorded.



Incidents can be reviewed by searching time and date, bookmarks or traditional forwards/backwards play, pause and speed controls.



Video can be exported for archiving or as evidence on a CD/DVD-ROM with an embedded viewer.

Open Architecture

X-Net NVR is built on open standards and hence it is very easy to integrate 3rd party devices such as codecs, IP cameras, and various other systems into X-Net NVR. In addition, there is a free SDK available for X-Net NVR which allows 3rd party systems to receive video and alarms from the NVR system.

X-Net NVR runs on standard PC hardware and the latest Microsoft server operating systems. Microsoft provides long term support for its operating systems, which allows the NVR system to be maintained for a very long period of time. Linux based NVRs and DVRs suffer from lack of long term support from the Linux vendors which makes it almost impossible for the vendor to provide long term support for such software. Additionally, the combination of standard hardware and software means that it is extremely easy to add support for new devices such as external hard drives, RAID arrays, newer graphics cards etc. to the system.

World Class Service and Support

COE is a company with a global footprint. With offices in UK, France, Netherlands, Hong Kong & Singapore, COE can support customers anywhere in the world. COE has a track record of providing long term support and customised solutions for its customers. Clients such as Transport for London, Singapore MRT, Delhi Metro, Shell and numerous public authorities are testimony to the quality of our support. X-Net NVR comes with an option for extended support and maintenance contract and it is possible to extend support for up to 10 years. All COE customers who opt for extended warranty are provided with a pre-configured VPN router which allows secure access to the site for remote updates and troubleshooting.

X-Net NVR Software Applications

X-Net NVR

The basic unit for recording analogue cameras, IP cameras or codecs. Each channel is individually configurable. The NVR also includes an onboard playback suite.

X-Net NVR Viewer

Remote viewing station. Provides access to live and recorded video from one NVR server. For applications where more than one NVR server is to be managed by a single workstation, the VMS server and workstation will be required.

X-Net NVR Sales Codes

X-Net NVR LIC

NVR License for recording a single camera (Analogue, IP or from codec).

X-Net NVR SRV PK

NVR server software pack. Includes CD with software application and pre-loaded license dongle.

X-Net NVR VWR PK

Remote viewing station for the NVR. Provides access to live and recorded video but no access to maps or alarms.

NVRCAP16H264D

H.264 capture card for X-Net NVR. Full frame rate on all channels. 16 channels at CIF/25fps or 8 channels at 4CIF/25fps.



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Dealer Stamp



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