CCTV

# SISTORE MX NVR – Network-based video recording

Building Technologies

SIEMENS

# Unique, extremely reliable Network Video Recorder

**SISTORE MX NVR is a network video recorder connecting up to 16 IP cameras, simultaneously allowing recording, playback, live viewing and remote access per installed system. SISTORE MX NVR can be used in a wide variety of applications, including retail, offices, petrol stations, to name but a few. It fully supports the connection to a variety of network cameras (IP cameras) and video servers from different manufacturers. As SISTORE MX NVR can also be equipped with alarm inputs and outputs – this network video recorder even satisfies the requirement for specialist security applications to optimum effect.**

# Recording of up to 16 IP network cameras on an incredibly compact video recorder

**Network-based video monitoring and recording with up to 16 IP cameras**
This networked video recorder supports network-based video monitoring and recording for up to 16 IP cameras. SISTORE MX NVR offers a maximum recording speed of up to 100 ips with 80 GB internal storage.

**The IP camera range from Siemens**
In addition to the range of IP cameras and modules from Siemens (including the IP fixed domes and dual codec IP cameras with MJPEG / MPEG4 compression selection and Wide Dynamic), SISTORE MX NVR can also be connected to numerous third-party IP cameras that may have already been installed also supporting PTZ control.

**Support of megapixel recording**
SISTORE MX NVR supports the recording of megapixel IP cameras. Megapixel recordings contain more information, particularly useful when using the integrated digital zoom feature.

**Integrated motion detection**
To optimise hard disk storage, the pixel based motion detection system allows the user to define areas of interest in a scene and only when motion occurs inside this area, will the images be recorded. The motion detection can be used to trigger an alarm and increase the recording speed to ensure the maximum amount of information is stored.

**Integrated sabotage detection**
SISTORE MX NVR is equipped with integrated sabotage protection, recognising camera re-positioning, covering, spraying and defocusing.

**Site plan feature for easy orientation in the monitored area**
Images from cameras positioned within a graphical view of a site plan can be easily displayed via mouse click. This feature helps operating personnel to track suspicious people for example, without having to remember the next camera number.

**Free remote client software**
The SISTORE MX NVR can be used in conjunction with SISTORE MX RemoteView to analyse the video recordings via remote access (via LAN or ISDN).

**Robust, industrial-suited design for 24 hour permanent operation**
The self monitoring system with integrated temperature management and Watchdog functionality monitors the system temperature and the accurate operation of hardware and software. If problems occur, the system alerts the operator automatically or, if necessary, restarts the system to ensure high system continuity.

**Ultra compact, space saving and easy to install**
With its ultra compact dimensions this digital network video recorder makes the most out of the given space and yet still offers very high processing performance and flexible, easy installation.

## Highlights

- Robust, industrial-suited design for 24 hour permanent operation
- Network Video Recording for 16 IP cameras, with 100 ips on 80 GB internal storage
- Supports megapixel IP camera recording
- Integrated motion and sabotage detection
- Free remote client software
- Low-maintenance and highest system reliability
- Compact dimensions for space saving, easy and flexible installation
- Operating system on Compact Flash Card

# Robust design – simple operation

### Quick installation through plug & play

The system is ready for immediate use after installation and the connection of the IP cameras. When developing SISTORE MX NVR the focus was on simple, clear controls and functional reliability.

SISTORE MX NVR is an innovative and multifunctional network video recorder which can be updated at any time due to its modular structure and can be adapted to reflect customers' specific requirements. Depending upon the configuration, images can be recorded from up to 16 networked cameras simultaneously on a single device.

### Optimised recording modes

SISTORE MX NVR provides optimised recording modes for any situation. If, via the built-in motion detection movement occurs, or if an external alarm input is triggered, the image quality and recording speed can be increased, enabling more detailed information to be recorded. Alternatively, during standard long-term recording, the image quality and recording speed can be decreased to save storage space, if required.

### Pentaplex operation

SISTORE MX NVR is a "pentaplex" system – a system that enables the user to record, view live images and replay previously recorded video at the same time. In addition, the system allows RemoteView mode and the external archiving of recordings.

### Live image display & alarm scenarios

In addition to recording, all cameras can be displayed for live monitoring. Furthermore SISTORE MX NVR also allows the definition of alarm scenarios depending on time, date, alarm conditions etc. If an alarm is triggered, e. g. via the integrated motion detection or an external alarm input, a predefined alarm scenario executes. Thereby making it possible to zoom in on a predefined image area and start recording or to increase the recording speed of certain cameras, ensuring that the correct pictures are stored in the correct quality.

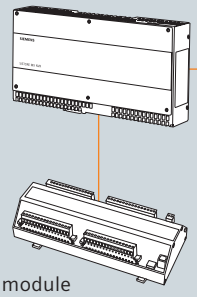
### User administration

SISTORE MX NVR works with a uniquely designed user administration system. By assigning different user rights, each operator can be given access to certain functions, and declined access to others, depending on their particular duties.

### Export and archiving

SISTORE MX NVR supports archiving both of sequences on the local hard disk and shared networked drives. In addition, archiving can be done using an external CD/DVD burner connected via USB.

SISTORE MX NVR



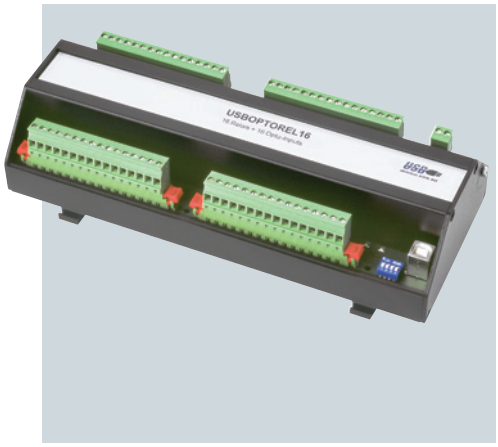
I/O module

Optional USB input/output modules expand the functionality of SISTORE MX NVR to include alarm inputs and outputs.

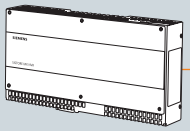
## Highlights

- Quick and easy to install
- Long-term and event-based recording
- Pentaplex operation
- Live image display & alarm scenarios
- User access management
- Various archiving options

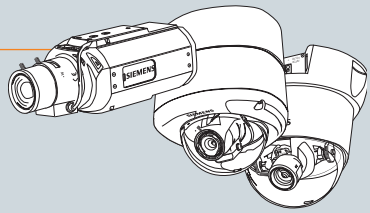
Optional alarm input/output box via USB



SISTORE MX NVR



Up to ten SISTORE MX NVR units can be accessed simultaneously via RemoteView.

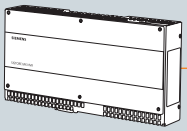


Each SISTORE MX NVR supports the recording and management of up to 16 IP cameras. It also features additional functions such as motion detection.

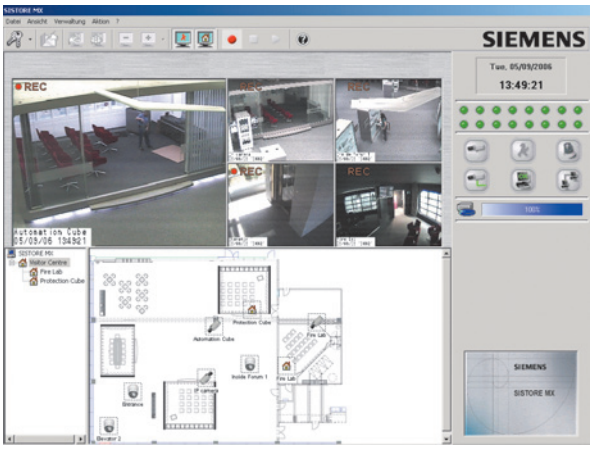
TCP / IP Network

Up to 16 RemoteView clients can access a SISTORE MX NVR. Each RemoteView client can display the images from up to 10 SISTORE MX NVR simultaneously.

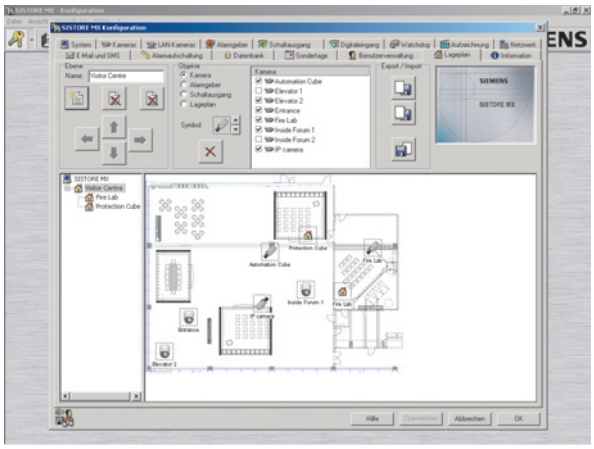
SISTORE MX NVR



The interactive site plan feature helps operators track suspicious activity




Simply add and position cameras on the site plan via drag and drop



# Technical overview

### Quick and easy searching
To ensure the fastest method of finding images, a mask can be defined in the area of interest, filtering the playback to only that area and ensuring no time is wasted watching hours of useless video. Also, there is the timeline search, showing all recorded images across the cameras, including movement detection, alarm triggers etc. – just drag the line to the time or date required – simple. Of course it is also possible to search according to standard criteria, such as date, time, camera and logbook.

### Multiple user access (multi-client)
Up to 16 clients can access a SISTORE MX NVR simultaneously via the included RemoteView software.

## Highlights

- Quick and easy searching
- Multiple user access
- Multi-server with simultaneous access
- Integration of switching inputs and outputs via USB
- Control possible using video software IVM

### Multi-server with simultaneous access
A single RemoteView station can access up to 10 SISTORE MX NVRs simultaneously, thereby creating a multi-server system.

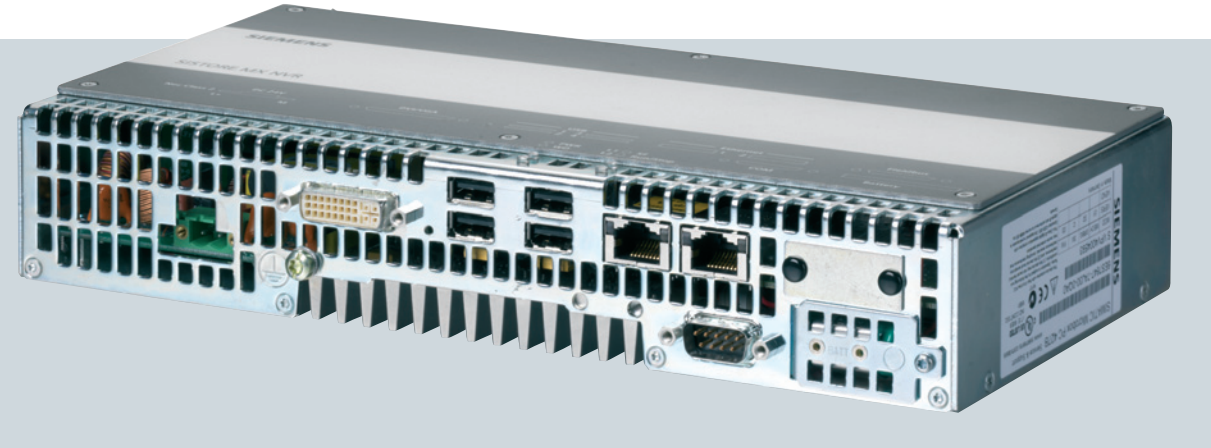
### Integration of switching inputs and outputs via USB (optional)
The SISTORE MX NVR can also be equipped with alarm inputs, from which recording can be started or speed adjusted. The digital inputs are reserved for specific alarm inputs e.g. UPS power failure, start/stop recording. The alarm outputs are designed to connect to alarm systems, turn on lights or trigger a loudspeaker pre-recording. It is also possible to record a single audio channel linked to a pre-defined camera.

### Alarm action
In the event of an alarm, an automatic connection is established to the remote monitoring station via the RemoteView software. In addition, the operator receives an e-mail or text message informing of the alarm or system status, enabling necessary alarm procedures to then take place.

### Control via IVM video software
SISTORE MX NVR can be controlled directly via IVM interactive video software from Siemens. The recorded images and event data can be played back and analysed, and full camera control can take place via any IVM client in the system's network.

SISTORE MX hardware for hybrid video surveillance

### SISTORE MX hybrid system
If analogue cameras are already installed in a system which is set to be upgraded with IP cameras in the future, then SISTORE MX, also available from Siemens, is the ideal choice. This hybrid video monitoring system enables the recording of images from both 32 analogue and 32 IP cameras, thereby supporting seamless migration from analogue to digital. Further information on SISTORE MX can be found at: www.siemens.com/sistoremx.



| | SISTORE MX NVR16 |
|---|---|
| **Display** | |
| **Video inputs (digital IP / Ethernet)** | 16 |
| **Video resolution (H x V)** | up to 1280 x 1024 |
| **Recording** | |
| **Maximum Recording Speed** | 100 ips |
| **Maximum video resolution (H x V)** | 1 camera – 2048 x 1536<br>4 cameras – 1280 x 1024<br>9 cameras – 704 x 288<br>16 cameras – 352 x 288 |
| **Recording capacity** | 80 GB internal (NAS optional) |
| **Alarms** | |
| **Alarm inputs (optional)** | 8 |
| **Alarm inputs / outputs combined (optional)** | 16 / 16 |
| **Alarm outputs (optional)** | 8 |
| **Activity detection** | ■ |
| **Sabotage detection** | ■ |
| **Controls** | |
| **SmartSearch** | ■ |
| **PTZ / dome control** | ■ |
| **Fast forward / rewind controls** | x 0.1 to x 50 speed |
| **Comprehensive user management** | ■ |
| **Connectivity** | |
| **RemoteView Software (free remote access)** | ■ |
| **VSS-SDK 1.4.2 / IVM** | ■ |
| **SiPass access control interface** | ■ |
| **USB 2.0 / RS232 / Ethernet** | 4 / 1 / 2 |
| **Export / Backup** | |
| **Image export** | JPG or AVI via network |
| **Image backup / archive (ext. software necessary)** | via USB to CD / DVD burner |

# Welcome to the world of innovative thinking

### Innovation

For the last 160 years, Siemens has been investing a great deal in both manpower and research and development. This has ensured a constant stream of new insights, technologies and inventions that enable us to continuously improve the reliability of our products and systems to make them easier to install and operate.

Advances in digital technologies are creating a whole new world of possibilities. Siemens has been at the leading edge of progress in this field and continues to redefine both current and future technologies.

### Interoperability

Interoperable systems are now supplied alongside such basic requirements as lighting, heating and water in a building. As a company, we know that integration supports the business environment through the interaction of products and systems. We break down the barriers between our access control, intrusion detection and video surveillance product lines in our security portfolio and listen to what the market actually wants. We then develop to deliver both fully integrated and interoperable security systems, based on our 30 years of know-how in security.

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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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**www.siemens.com/sistoremxnvr**