Hybrid Video Recorder SISTORE MX 3G

V2.90

SISTORE MX0804 1000/200
SISTORE MX1608 1000/300
SISTORE MX1608 2000/300
SISTORE MX1608 4000/300
SISTORE MX1616 1000/500
SISTORE MX1616 2000/500
SISTORE MX1616 4000/500
SISTORE MX3232 2000/900
SISTORE MX3232 4000/900

SISTORE MX is a hybrid recording and video monitoring system. It provides reliable local recording for both analogue and IP cameras with flexible remote monitoring via LAN or ISDN.

- Hybrid monitoring and digital video recording system for up to 32 analogue and 32 IP cameras
- Direct streaming of IP camera directly to the RemoteView client for live image display via MPEG4 format
- Support of Intel dual-core or quad-core processors to enhance system performance
- SISTORE MX0804 for 4 analogue and 8 IP cameras, as an additional model in particular for banking and other applications
- Certified according to BGV-Kassen and Fiducia (Banking approval)
- Kalagate-certified watermarking for enhanced image tamper protection (in preparation)
- Recording speed up to 800 images per second (analogue) and up to 400 images per second (digital)
- Camera sabotage detection (camera repositioning/spraying)
- Search Mask capability (Motion search/Smart Search) for search within recorded video locally and from the RemoteView station
- Pentaplex operation (simultaneous display, recording and playback of live images, back-up and network-based functions)
- Temperature management for enhanced system reliability
- High image quality with up to full 4CIF recording for analogue cameras and up to 5-megapixel recording for IP cameras (dependent on camera model)
- Supports most leading IP cameras including Siemens, Axis, JVC and others

Answers for infrastructure.

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- Graphical user interface for intuitive operation, reduced training needs and enhanced productivity
- Simultaneous display of up to 32 live images (multiplexed), also in RemoteView
- Direct connection to RemoteView upon alarm, including alarm processing
- Audio recording for up to 16 channels
- Automatic messaging (e.g. alarms, failure) via e-mail or SMS
- Powerful search capabilities using timeline, logbook, SmartSearch, ATM data or date/time assist in the rapid location of required video footage
- Simple intuitive operation and configuration reduces commissioning time
- Simultaneous search of up to 4 cameras locally and remotely over LAN or ISDN
- Connection of up to 4 analogue video monitors and basic video matrix function 32/4 (static, alarm, motion, PTZ, sequencing)
- Configurable pre-alarm recording per camera enhances functional flexibility
- Intelligent motion detection individually configurable for each camera
- PTZ control for dome and pan-and-tilt units possible from the RemoteView station via a CKA48xx control unit
- Multi-client function for access of up to 64 clients to one SISTORE MX
- Virtual guard tour on the RemoteView station for automatic connection of several sites assists in managing distributed or multi-site systems
- Status indication of the switch outputs also via RemoteView
- Reference Image function facilitates camera maintenance by allowing an easy comparison of actual camera position and image quality with "as installed" settings
- Bandwidth limiting for remote viewing over low-bandwidth connections
- Watchdog for checking the operational reliability of the device
- Control via Video Software IVM
- Interface to SiPass access control system provides interoperability
- Interface connection to CDM (ATM) or Keba Kebin S6 access reader with controller via SISTORE MX interface box
- Embedded hardware utilising the latest Texas Instruments "DaVinci" DSPs
- SISTORE MX 2.90 now supports larger HDDs, thus enabling capacities of up to 16 TB in conjunction with NAS systems
- The RemoteView application software is executable on a client PC with Windows 7 operating system (32-bit version only)

Functionalities

Display mode

The display mode is the unit's normal operating mode. In addition to live images displayed from selected cameras, all events such as loss of video, alarms and malfunctions are logged and reported in an easy to use overview screen.

Playback mode

The playback mode is used to review recorded video footage. SISTORE MX allows flexible and precise searching for specific events to quickly find the required video footage.

Access to playback/searching is regulated via administrative permission levels and can be restricted using 4-eyes principle. The MX has pentaplex capability so playing back footage does not affect either live view or recording speed. Archiving of video footage is possible to standard USB 2.0 devices or to an external DVD burner.

It is also possible to connect a Keba Kebin S6 access reader with controller (e.g. bank foyers) or cashbox systems (e.g. retail stores).

Configuration mode

Configuration mode is used for the following operations:
Assignment of user rights
- Configuration of the analogue and digital (IP) cameras including brightness, contrast and colour saturation, as well as digital inputs and outputs and serial inputs
- Camera parameter settings for motion detection, alarm contacts, signal outputs
- Time control, alarm forwarding, transmission, e-mail and SMS
- Network parameters, such as ISDN or LAN with bandwidth limitation.

Details for ordering

Type	Order No.	Designation	Weight*
SISTORE MX0804 1000/200	S54569-C190-A3	SISTORE MX 0804 3G HVR, 1 TB, 200 ips	approx. 11.0 kg
SISTORE MX1608 1000/300	S54569-C201-A3	SISTORE MX 1608 3G HVR, 1 TB, 300 ips	approx. 11.4 kg
SISTORE MX1608 2000/300	S54569-C201-A5	SISTORE MX 1608 3G HVR, 2 TB, 300 ips	approx. 12.1 kg
SISTORE MX1608 4000/300	S54569-C201-A9	SISTORE MX 1608 3G HVR, 4 TB, 300 ips	approx. 13.5 kg
SISTORE MX1616 1000/500	S54569-C202-A3	SISTORE MX 1616 3G HVR, 1 TB, 500 ips	approx. 11.4 kg
SISTORE MX1616 2000/500	S54569-C202-A5	SISTORE MX 1616 3G HVR, 2 TB, 500 ips	approx. 12.1 kg
SISTORE MX1616 4000/500	S54569-C202-A9	SISTORE MX 1616 3G HVR, 4 TB, 500 ips	approx. 13.5 kg
SISTORE MX3232 2000/900	S54569-C203-A5	SISTORE MX 3232 3G HVR, 2 TB, 900 ips	approx. 12.1 kg
SISTORE MX3232 4000/900	S54569-C203-A9	SISTORE MX 3232 3G HVR, 4 TB, 900 ips	approx. 13.5 kg

* Device incl. packing material, accessories that are included in the delivery, and documentation.

Further products and accessories can be found in the Internet: siemens.com/cctv **> Catalogue Downloads**.

■ **Accessories (included in the delivery)**
– Installation manual in 5 languages (German, English, French, Spanish, Italian)
– Mouse
– EU power cord
– Installation CD with all manuals and RemoteView software

■ **Technical data**

Recording speed	32 channel models: 400 ips (analogue) @ 4CIF/2CIF / 100 ips (digital)
	800 ips (analogue) @ CIF / 100 ips (digital)
	16-channel models: 400 ips (analogue) @ 4CIF/2CIF/CIF / 100 ips (digital)
	8-channel models: 200 ips (analogue) @ 4CIF/2CIF/CIF / 100 ips (digital)
	4-channel models: 100 ips (analogue) @ 4CIF/2CIF/CIF / 100 ips (digital)
	individually configurable for each camera
	References:
	- 100 ips (digital) with 8 cameras, 4CIF @ 12.5 ips in standard quality
	- 100 ips (digital) with 16 cameras, 2CIF @ 6.25 ips in standard quality
Video inputs	4/8/16/32 analogue inputs (CCVS, BNC) 1 V_{pp} (75 Ω) looped to 4/8/16 outputs (no looping on MX3232)
	32 IP camera inputs via network on MX3232
	16 IP camera inputs via network on MX1608/MX1616
	8 IP camera inputs via network on MX0804
Video outputs	4 (CCVS, BNC), 1 V_{pp} (75 Ω)
Audio inputs	8/16 (line in, spring clamp)
	Recording 16 kHz / 16 bits / 16 kHz / 8 bits
Audio outputs	4 (line out, spring clamp)
	1 output is supported, 1 out of 4 selectable
Network connection	2 x 10/100/1000 Base-T (RJ-45)
Digital inputs/outputs (opto-isolated, spring clamp)	16 alarm inputs
	4 digital inputs
	4 digital outputs (5 – 24 V, max. 50 mA)
Event control	Event-triggered recording of individual cameras or camera groups with configurable time-slot pattern
	Events: alarm contacts, motion detection, time control, TCP/IP command
Alarm signalling	Via monitor connection, digital output, LAN/WAN to RemoteView station
Interfaces	2 x RS485 / 6 USB 2.0 / 1 DVI-I (including VGA) / 1 DVI-D
TV standard	PAL
Resolution	Analogue: CIF/2CIF/4CIF
	IP cameras: max. 5 megapixels depending on the camera
Compression	Recording: MJPEG, configurable data rate
	Transmission to RemoteView: MJPEG/MPEG4 (max. 2048 x 1536)
Hard disk capacity	Max. 4 hard disks SATA (1 TB each)
Backup recording media	Network / USB
Display resolution	Max. 2048 x 1536 (4:3 and 16:10 formats are supported)
Playback	Individual images, video sequence (replay rate configurable between 0.1 to 50 times), forward/backward, pause (frozen image)
Image search	By means of date, time, camera number, recording event, logbook, SmartSearch
Power supply	110 – 240 V (± 10 %), 50/60 Hz, max. 150 W
Ambient temperature, operating	5 – 40 °C
Rel. humidity	20 – 80 %, no condensation
Design variants	Desk-top, 19" rack-mountable, 2 u height
Dimensions (W x H x D)	430 x 87 x 440 mm

■ **Supported IP cameras:**
For an overview of the supported cameras please refer to the document "SISTORE MX IP Cameras"
(STEP No.: A6V10321167).

NOTE
− Audio input signal corresponds to audio input of a standard PC.
− When using microphones, it may be necessary to install preamplifiers (depending on the local circumstances).
− Audio output signal corresponds to audio output of a standard PC.
− All audio equipment has to be connected directly to the terminal block; standard phone jacks cannot be used.

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