SIEMENS

Hybrid Video Recorder

SISTORE MX 3G

V2.80

SISTORE MX1608 1000/300
SISTORE MX1608 2000/300
SISTORE MX1608 4000/300
SISTORE MX1616 1000/500
SISTORE MX1616 2000/500
SISTORE MX1616 4000/500

- **Hybrid monitoring and digital video recording system for up to 16 analogue and 16 IP cameras**
- **Certified according to BGV-Kassen (Banking approval)**
- **Kalagate certified watermarking for enhanced image tamper protection**
- **Recording speed of up to 400 images per second (analogue) and up to 100 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)**
- **Temperature management for enhanced system reliability**
- **High image quality with up to full 4CIF recording for analogue cameras and up to Megapixel for IP cameras (dependent on camera model)**
- **Supports most leading IP cameras including Siemens, Axis, JVC and others**
- **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**
- **Automatic messaging (e.g. alarms, failure) via e-mail or SMS**

Building Technologies

Fire Safety & Security Products

- **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 16/4 (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 16 clients to one SISTORE MX**
- **Virtual guard tour on the RemoteView station for automatic connection of several sites assists in managing distributed or multisite 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 function to ensure safe and reliable operation**
- **Control via Video Software IVM**
- **Interface to SiPass access control system provides interoperability**
- **Interface connection to CDM (ATM) or POS via SISTORE MX interface box**
- **Embedded hardware utilising the latest Texas Instruments "DaVinci" DSPs**

Functionalities

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.

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.

Configuration mode
Configuration mode is used for the following operations:
- Administration 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

Technical data

Recording speed	16 channel models: 400 ips (analogue) / 100 ips (digital)
	8 channel models: 200 ips (analogue) / 100 ips (digital)
	individually configurable for each camera
Video inputs	8/16 analogue (CVBS, BNC) 1 V_{SS} (75 Ohm) looped to 16 outputs
	16 IP camera inputs via network
Video outputs	4 (CVBS, BNC), 1 V_{SS} (75 Ohm)
Audio inputs	8/16 (line in, spring clamp)
	Note: Audio feature planned for later firmware
Audio outputs	4 (line out, spring clamp)
	Note: Audio feature planned for later firmware
Network connections	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
Video standard	PAL, NTSC
	Note: NTSC planned for later firmware
Resolution	Analogue: CIF/2CIF/4CIF
	IP-cameras: max. 5 megapixels depending on the camera
Compression	Recording: MJPEG, configurable data rate
	Transmission to RemoteView: MPEG4 (max. 2048 x 1536)
Hard disk capacity	Max. 4 hard disks SATA (up to 1 TB each)
Backup recording media	Network / USB
Display resolution	Max. 2048 x 1536
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
Ambient temperature, operating	5 – 40 °C
Relative humidity	20 – 80 %, no condensation
Design variants	19", 2 RU
Dimensions (W x H x D)	430 x 87 x 440 mm

Details for ordering

Type	Part no	Designation	Weight*
SISTORE MX1608 1000/300	S54569-C201-A3	SISTORE MX1608 HVR, 1000 GB, 300 ips	approx. 11,7 kg
SISTORE MX1608 2000/300	S54569-C201-A5	SISTORE MX1608 HVR, 2000 GB, 300 ips	approx. 11,7 kg
SISTORE MX1608 4000/300	S54569-C201-A9	SISTORE MX1608 HVR, 4000 GB, 300 ips	approx. 11,7 kg
SISTORE MX1616 1000/500	S54569-C202-A3	SISTORE MX1616 HVR, 1000 GB, 500 ips	approx. 11,7 kg
SISTORE MX1616 2000/500	S54569-C202-A5	SISTORE MX1616 HVR, 2000 GB, 500 ips	approx. 11,7 kg
SISTORE MX1616 4000/500	S54569-C202-A9	SISTORE MX1616 HVR, 4000 GB, 500 ips	approx. 11,7 kg

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

Accessories (included in the delivery)

- Installation Manual
- Mouse
- EU power cord