SIEMENS

SISTORE AX

Get the images you need

Simple and secure – with digital technology

SISTORE AX offers all the advantages of digital video surveillance in a single compact unit. Developed for smaller applications, SISTORE AX can be used anywhere for recording up to 16 cameras, for example in petrol stations, small shops, supermarkets, museums etc. Quick and easy to install, SISTORE AX is particularly simple to operate. Flexible control, efficient H.264 compression, easy access to recorded images and powerful search functions ensure that you always get the images you need.

SISTORE AX – Key features

■ **High-quality images**
The latest version of SISTORE AX utilizes H.264 video compression technology, which delivers higher-quality images, smaller file sizes and better streaming over limited bandwidth connections.

■ **Easy operation**
The graphical user interface of the SISTORE AX is very easy to configure and use, with a very logical menu structure. As a result, training requirements are minimal.

■ **Direct unit control and PTZ capability**
The SISTORE AX has an easy-to-use front panel for direct unit control. Most SISTORE AX models can control both dome and PTZ cameras via the unit front panel buttons. This includes the storing and recall of camera presets.

■ **Remote access via RAS, Internet or Smartphone**
All SISTORE AX models include licence-free remote administration software (RAS), which can be used to retrieve and view images from one or more remote workstations. (Two-way audio functionality is also available via RAS.) New SISTORE AX models can also be remotely accessed via a standard Web browser. SISTORE AX RAS Mobile enables remote access from a Windows Mobile based Smartphone or PDA.

■ **True archiving flexibility**
In addition to storing video images on its internal hard drive, the SISTORE AX can archive data to the built-in DVD drive and external devices, such as USB memory

sticks and external hard drives. The new standard SISTORE AX device provides 1TB of HDD capacity, while the new 8/16 channel devices are capable of being expanded up to a total capacity of 3TB. The high HDD capacity combined with the H.264 compression make it possible to achieve significantly longer storage times.

■ **Real-time or real-half-time recording**
All SISTORE AX models can now provide real-time recording for all connected cameras. The new AX4 Lite model has a maximum global recording speed of 100ips, the new AX8 model provides 200ips, and the new AX16 model provides 400ips. The SISTORE AX also offers a high level of flexibility in configuring camera recording rates, particularly when recording at very high (4CIF) and high (2CIF) resolutions. In particular, this can allow real-time or half-real-time recording on selected cameras at these resolutions.

■ **Selectable VGA resolution**
SISTORE AX has three VGA resolution options selectable via the on-screen menu. The optimum VGA resolution can be selected to best match the LCD VGA monitor being used with the device.

■ **Easy integration with SiPass access control systems**
SISTORE AX can be connected directly to SiPass Entro or SiPass integrated access control systems – full interoperability is built in as standard.

Highlights

■ Remarkable image quality

■ Optimised storage capacity utilising H.264 technology

■ Easy configuration and operation

■ Viewing and searching using a standard Web browser and RAS software

■ Flexible archiving options

Museums

Small shops

CKA4820 Remote keyboard control

SISTORE AX – simple and flexible

■ **Record for more than a month in a single unit**

Utilising H.264 technology enables even the smallest SISTORE AX4 Lite unit with four cameras to record images continuously for more than a month. The recorded data is protected against tampering with a digital signature so that the authenticity of each recorded image can be verified.

■ **Recording modes**

SISTORE AX can provide an optimised recording mode for any situation. Both recording speed and image quality can be increased in response to an external alarm input or built-in activity detection, therefore recording more information. During standard time-lapse recording both image quality and recording speed can be decreased to reduce the storage space required, therefore optimising achievable recording times.

Furthermore, if a video signal loss alarm occurs on a camera, the SISTORE AX can start recording an additional camera in the same room. This allows the cause of the video loss to be determined quickly and easily.

Highlights

■ Efficient video compression with H2.64 technology

■ RAS mobile allows remote access for live viewing of Windows-based smartphones and PDAs

■ Optimised recording time using multiple recording modes

■ Quick and easy searching

SISTORE AX Watch
Enables image live viewing by drag&drop of the camera to the desired screen location. Status display of SISTORE AX remote devices and site plan functionality allow full control of the system.
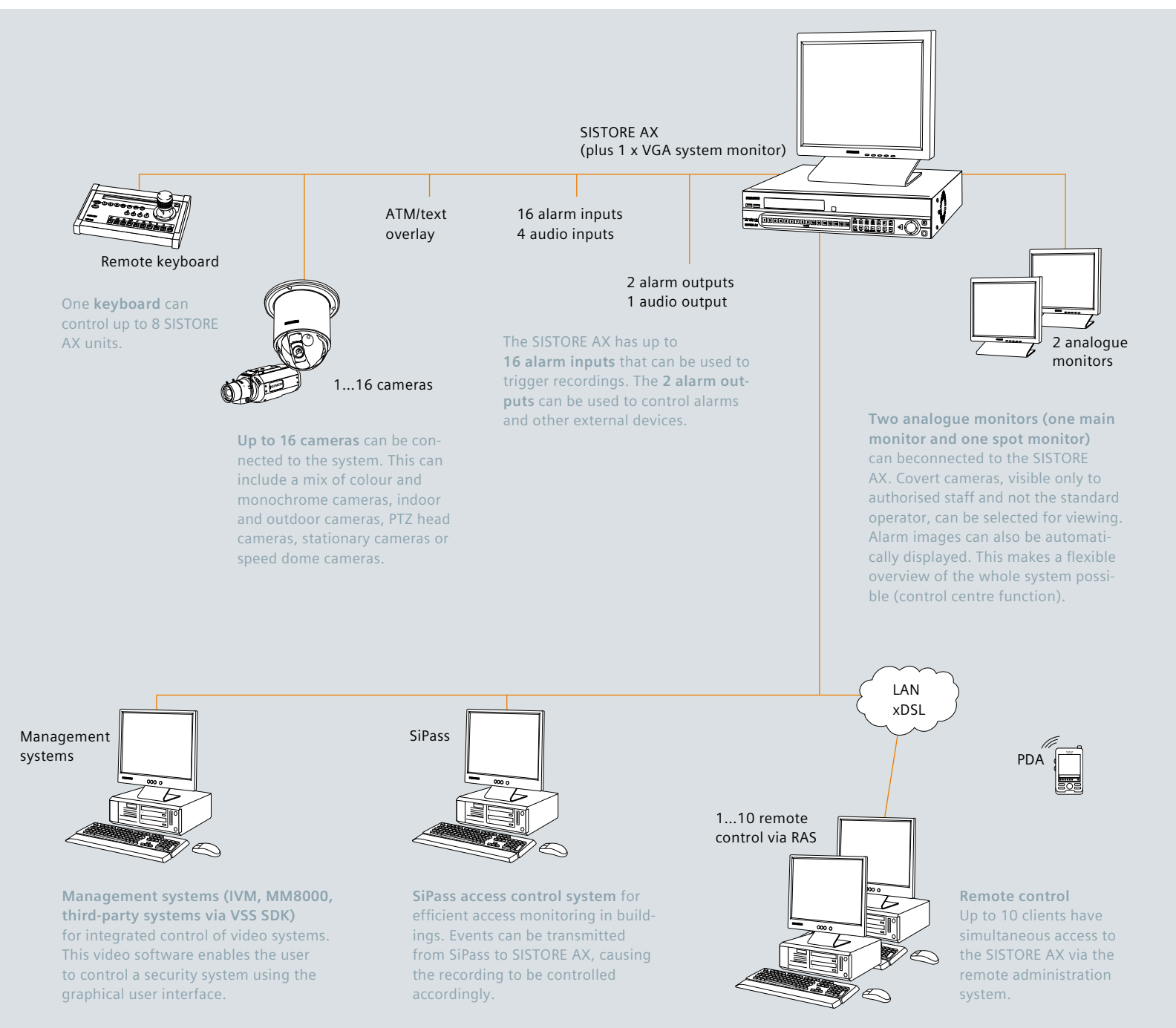
SISTORE AX Search
Enables search and replay of recorded images via RAS using time periods and particular events.

SISTORE AX Player
Enables images to be replayed after checking the encryption.

SISTORE AX
(plus 1 x VGA system monitor)

Remote keyboard

ATM/text
overlay

16 alarm inputs
4 audio inputs

2 alarm outputs
1 audio output

2 analogue
monitors

One **keyboard** can
control up to 8 SISTORE
AX units.

1...16 cameras

The SISTORE AX has up to
16 alarm inputs that can be used to
trigger recordings. The **2 alarm out-
puts** can be used to control alarms
and other external devices.

Up to 16 cameras can be con-
nected to the system. This can
include a mix of colour and
monochrome cameras, indoor
and outdoor cameras, PTZ head
cameras, stationary cameras or
speed dome cameras.

**Two analogue monitors (one main
monitor and one spot monitor)**
can beconnected to the SISTORE
AX. Covert cameras, visible only to
authorised staff and not the standard
operator, can be selected for viewing.
Alarm images can also be automati-
cally displayed. This makes a flexible
overview of the whole system possi-
ble (control centre function).

LAN
xDSL

Management
systems

SiPass

PDA

1...10 remote
control via RAS

**Management systems (IVM, MM8000,
third-party systems via VSS SDK)**
for integrated control of video systems.
This video software enables the user
to control a security system using the
graphical user interface.

SiPass access control system for
efficient access monitoring in build-
ings. Events can be transmitted
from SiPass to SISTORE AX, causing
the recording to be controlled
accordingly.

Remote control
Up to 10 clients have
simultaneous access to
the SISTORE AX via the
remote administration
system.

Pre-event recording can be configured
to allow better determination of what
led to an event, by recording images of
the event itself as well as immediately
beforehand.

■ **Flexible searching**
The powerful search functions of the
SISTORE AX help you find the images you
need quickly. Searching is possible using
time and date, by particular events and
by individual camera. With the museum

search function it is possible to search
for footage in which particular objects
(such as vases or paintings) have been
moved from their place. Simply placing
a box around the relevant area allows
quick and easy searching. Video loss
events and text entries from cash regis-
ters can also be used as search criteria,
therefore providing powerful search
flexibility.

SISTORE AX – Additional features

■ **Transaction devices**
SISTORE AX can be connected to a transaction device, such as an ATM or a point-of-sale (POS) system. This allows detailed transaction information to be recorded with the relevant video and used as supplemental information and for searching.

■ **Audio recording**
Each model of the SISTORE AX V4 family allows audio recordings for up to four audio channels. Two-way audio functionality is available when SISTORE AX RAS is used.

■ **Assigning rights**
SISTORE AX ensures the highest security and flexibility when accessing the system via configurable administration rights.

■ **Dual encoding**
The transmission rate and image quality for streaming to the remote client can be configured independently of the local recording rate and quality. This enables the transmission of video images with lower bandwidth to match existing network infrastructure limitations without affecting local recording.

■ **Covert camera mode**
Any camera can be recorded, but whether or not the output is displayed depends upon upon the user level, so cameras monitoring cash registers could only be monitored by managers, for example.

■ **Panic button**
SISTORE AX offers "panic button" recording to provide better support of security personnel. Pressing the panic button in suspicious situations starts recording all cameras at the independently configurable panic mode. This allows the lower quality and frame rate of time-lapse recording to automatically switch to a higher quality and frame rate during a panic-recording situation.

■ **Self-diagnosis (temperature monitoring)**
The self-diagnosis function is based on the S.M.A.R.T. protocol (self-monitoring analysis and reporting technology). It ensures the SISTORE AX is even more fail-safe. If a malfunction of the hard drive occurs or a specified temperature limit value is exceeded, SISTORE AX automatically triggers an alarm or sends a message. The callback function allows the unit to connect to the remote client using an existing network or dial-up and to report the problem, therefore allowing the operator to take corrective measures.

Highlights

■ Detailed information via connection to transaction devices

■ Two-way audio functionality

■ Audio recording

■ Configurable administration rights

■ "Panic button" for a better support of security personnel

Technical overview

	SISTORE AX4 Lite 1000/100	SISTORE AX8 1000/200	SISTORE AX16 1000/400
Display			
Video inputs (loop-through)	4	8	16
Monitor outputs	1x system monitor 1x VGA: 800x600, 1024x768, 1280x1024 (60 Hz)	1x system monitor, 1x spot 1x VGA: 800x600, 1024x768, 1280x1024 (60 Hz)	1x system monitor, 1x spot 1x VGA: 800x600, 1024x768, 1280x1024 (60 Hz)
Audio inputs/outputs	4/1	4/1	4/1
Freeze/zoom image	■	■	■
Live display formats	1 (full screen), 2x2 (quad)	1 (full screen), 2x2 (quad), 3x3 (mono)	1 (full screen), 2x2 (quad), 3x3 (mono), 4x4 (hex)
Covert camera mode	■	■	■
Recording			
Compression	H.264	H.264	H.264
Resolutions	CIF/2CIF/4CIF	CIF/2CIF/4CIF	CIF/2CIF/4CIF
Maximum recording speed – no local playback	100 ips	200 ips	400 ips
Panic button (recording)	■	■	■
Triplex mode	No (duplex)	■	■
Alarms			
Alarm inputs and outputs	4 and 1	8/2	16/2
Video loss detection	■	■	■
Activity detection	192 zones	768 zones	768 zones
Internal buzzer	■	■	■
Alarm log	■	■	■
Watchdog alarm	■	■	■
S.M.A.R.T. self-diagnosis	■	■	■
HDD			
Supported HDD	SATA 250/500/1000GB	SATA 250/500/1000GB	SATA 250/500/1000GB
Operation			
PTZ/dome control	front panel, RAS, web view, mouse, remote control	front panel, RAS, web view, mouse, remote control	front panel, RAS, web view, mouse, remote control
Fast forward/rewind control	3 speed levels adjustable	3 speed levels adjustable	3 speed levels adjustable
Password protection	Customisable, 64 user groups, 256 users per group	Customisable, 64 user groups, 256 users per group	Customisable, 64 user groups, 256 users per group
Remote keyboard control	■	■	■
Infrared remote control or mouse	■	■	■
Web browser access	■	■	■
Remote access via mobile/RAS (licence-free)	■	■	■
Connection options			
Ethernet/LAN/WAN (10/100 Mbps)	■	■	■
Remote control via RAS (licence-free)	■	■	■
Text overlay interface (ATM, POS)	■	■	■
Export/backup			
Export of images via network	Clip-Player, AVI	Clip-Player, AVI	Clip-Player, AVI
Image backup/archive	via USB	via USB/DVD writer (int.)	via USB/DVD writer (int.)
Hard disk expansion possibility	–		

Answers for infrastructure.
Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming, and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

"We are the preferred partner for energy-efficient, safe, and secure buildings and infrastructure."

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