GX Series

Standalone Real Time
HD Video Recording Server

TeleEye

Real time HD video at your fingertips.

TeleEye GX Series is a range of 4-, 9- and 16-channel video recording servers, which is specially designed for recording videos of TeleEye MX Series HD cameras. GX supports real-time HD recording up to the maximum frame rate of 480fps at HD resolution. Incorporating with the HD SMAC-M multi-stream video coder, recording, local display and network viewing performances are optimized and not affected with each other. Not only it preserves HD video recording quality, but also delivers optimized video transmission on LAN, Internet and mobile networks.

GX comes with separate network ports for individual HD cameras. Thanks to our CAMLOCK technology that eliminates the need of configuring IP settings into HD cameras before connecting them into GX. You can imagine that the entire installation process is as simple as open the box, plug the camera in and power it up. Then, you can see live video showing on the GX's screen instantaneously.

GX is a key component of TeleEye HD Video Surveillance Solution of which also includes HD IP cameras and video management platform. Since all these components come from the same development, seamless compatibility and optimized performance in operations can be assured.

GX
| HD Video Recording Server |

TeleEye GX Series is
a range of standalone Video Recording Servers delivering
400fps real-time HD recording.

Features:

- Independent & efficient HD recording stream
- 1080p/720p HDTV resolution
- Video recording up to 480fps
- Configurable recording frame rate
- Supporting up to 4 SATA HDDs
- USB video extraction
- Flexible connections:
  LAN, broadband & mobile network
- Support both static & dynamic IP
- Independent video network:
  require only one IP for up to
  16 MX HD Network Cameras
- IP filtering
- Single point video throughput control
- Mobile video monitoring
- Triplex operations:
  simultaneous monitoring,
  recording & playback
- HD video output
- Multiple login accounts
- Compliance with BS 8418
- Sophisticated event management
- Multi-language OSD
- Mouse control
- Audio recording
- Spot search
- Support ONVIF camera　(GX600 Series only)

Camera Setup in 5 Seconds

TeleEye GX is simple to install and its set-up process is straightforward with CAMLOCK technology. The system is ready to display and record video with auto cameras detection and configuration for all the 16 individual ports. GX does not require additional IP switches to connect to cameras, saving cost and reducing work. TeleEye GX automatic IP setup with CAMLOCK technology makes the installation as simple as connecting analog cameras into a conventional DVR.
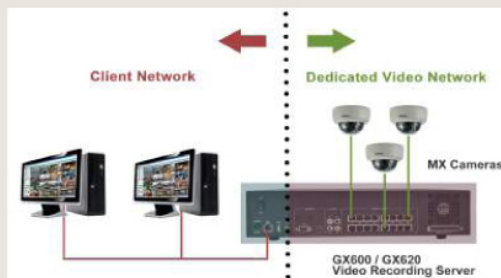
Hacker Resistant Technology

Hackers can bypass the security of a H.264 IP camera and access to live video footages remotely. TeleEye always keep a watchful eye over customers' valuables with five protection layers – AES 256-bit encryption technology, proprietary HD SMAC-M video coder, specific IP access, secure protocol, and pair matching architecture.

TeleEye offers two distinctive HD recording solutions that let customers decide on the best suitable choice according to the specific requirements and network configuration in the premises.

Dedicated Video Network

TeleEye GX series is designed for separating a video network completely from an IP network that is currently in use in the premises. It ensures deterministic video performance independent of the network condition and prevents video data from overloading the existing network.

This approach can substantially enhance the security level of the entire video surveillance solution.

Shared IP Network

HD cameras and recorders are plugged into an existing IP network and then share with other users. However, the mixing of HD video and other company data may create bottlenecks that affect overall system performance. Therefore, this approach calls for bandwidth planning and careful network configuration by experienced IT professionals.
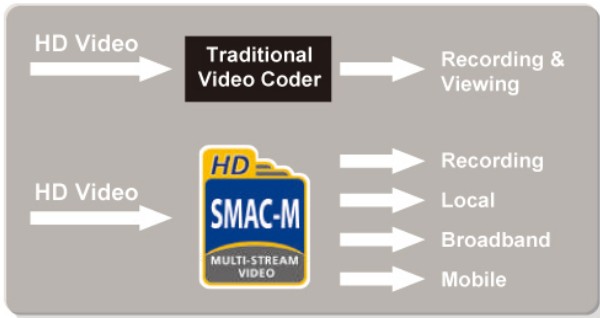
TeleEye

mx
| HD Network Carmera |

Comprehensive HD Video Camera Range

TeleEye MX HD Network Cameras incorporate with proprietary multi-stream compression technology, HD SMAC-M. The cameras can generate 4 independent video streams and allow simultaneous HD video recording at resolution of 720p or 1080p and fast video transmission via LAN, broadband or mobile networks.

Features:

- HD SMAC-M multi-stream coder
- Hacker resistant design
- HDTV Resolution: 720p or 1080p
- Independent HD video recording stream

- Independent mobile stream for mobile phone viewing
- Day & night with auto IR-cut filter
- IP66 weather proof & vandal resistant
- Power over Ethernet – IEEE 802.3af

Multi-streaming HD SMAC-M Video Coder

TeleEye GX incorporates the HD SMAC-M multi-stream video coder for HD video. Its multiple streaming function allows own throughput choices and allocates the best resources for video recording and viewing at various network capacities.

End to End HD Video Surveillance Solution

In contrast with many other IP video surveillance manufacturers who offer either cameras or NVRs, TeleEye provides a complete HD IP solution, including HD cameras, recorders and video management applications. The TeleEye HD solution guarantees optimized performance, seamless compatibility and single contact point when technical support is required.

Comprehensive HD Video Management Software

All TeleEye MX HD Network Cameras can work with the following back-end video management software to establish a comprehensive HD Video Surveillance Solution.

Professional Video Management Solution

sureSIGHT is our versatile video management solution that is fully compatible with the whole GX and MX product ranges. Its modular and scalable design gives users tremendous flexibility to build up the most suitable platform to cater for their specific video management requirements.

Features:

- Support simultaneous monitoring of up to 64 HD videos on one screen
- Manage multiple sites & cameras simultaneously
- Comprehensive event log
- Modular design & operation
- Operator account management system
- Provide interactive maps with multi-layer hierarchy
- Display maximum of 400 cameras on video wall
- Multi zoom windows
- Video analytics

sureSIGHT

siteMAP

Mobile Monitoring Solution

TeleEye GX supports mobile video monitoring when using with TeleEye iView HD Mobile Monitoring Solution. TeleEye iView HD is the video surveillance app for iPhone, iPad and Android devices.

Video Alarm Verification Solution

sureGUARD Video Response Centre Solution is a professional video alarm management solution for Remote Video Response Centre (RVRC). It fully complies with British Standard BS 8418 for remote monitoring of detector activated CCTV systems.

Features:

- BS 8418 compliance
- Manage numerous sites simultaneously
- Comprehensive client account system: Key holder information, floor plan, etc.
- Sophisticated event management and activity log: Speedy visual verification, off-site arm/disarm, etc.
- Scalable design and operation
- Up to 8 concurrent connections from each video management server
- Full-screen display and individual user authorities
- Optional site map, site check and video matrix modules

Professional Event Management BS 8418 Compliance

TeleEye GX is designed to fully comply with the British Standard BS 8418, providing professional remote monitoring and visual alarm verification solution to RVRCs. The system comes with 16 alarm inputs and 4 relay outputs. Comprehensive alarm management functions are embedded to allow your integration of TeleEye GX with existing alarm systems. User defined actions would be carried out immediately when an event is detected.

GX624A / GX629A / GX6216A

TeleEye GX620 Series is a range of real time HD video recording servers incorporated with a user-friendly control panel, PC mouse support and HD video outputs for direct controls and operations. It is the most suitable choice for installations requiring both local standalone and network operations.
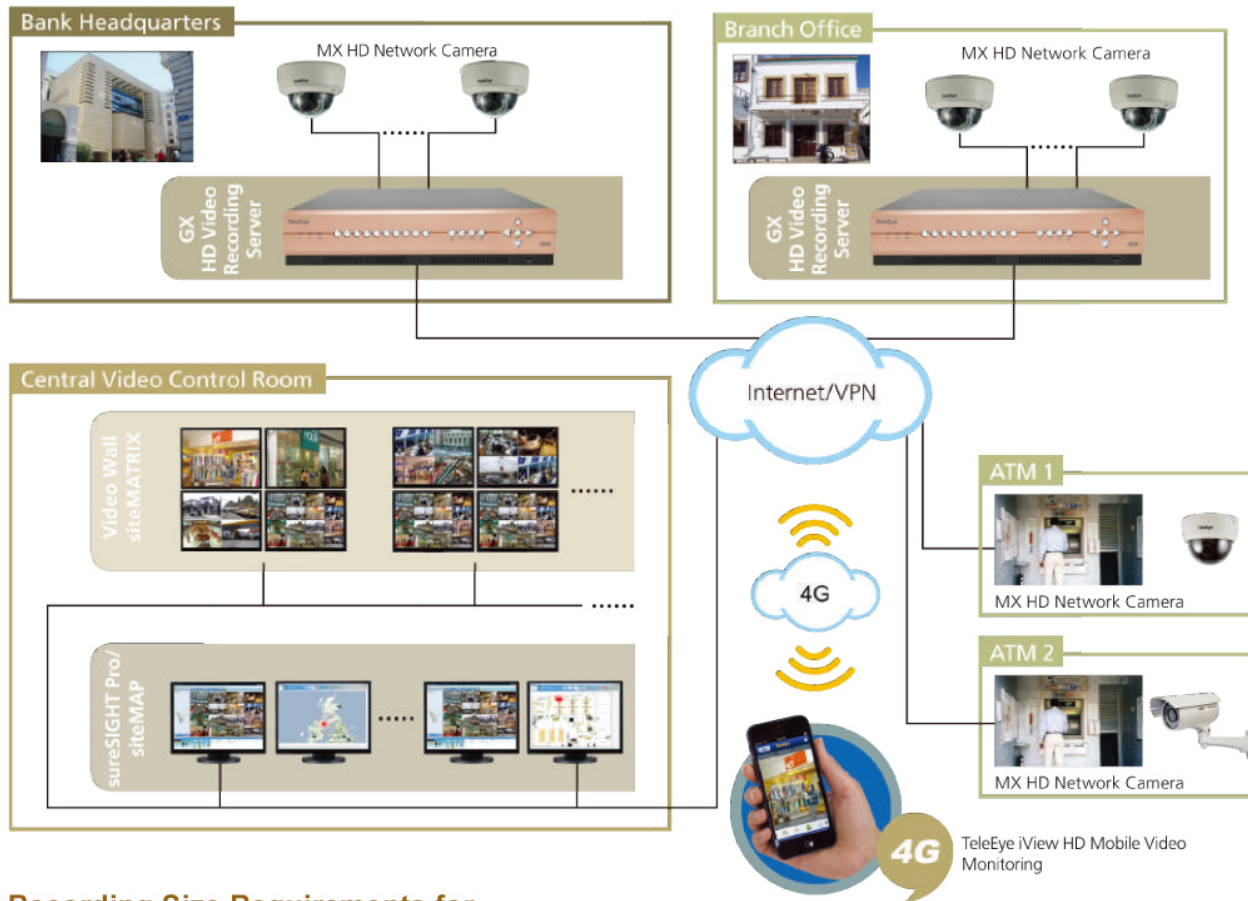
GX604 / GX609 / GX6016

TeleEye GX600 Series is a range of real time HD video recording servers designed purely for operations via computer networks. It is the most suitable choice for applications purely requiring network-based operations or installations in unmanned premises.

SPECIFICATIONS

Model		TeleEye MX & NX Models			TeleEye MX & NX Models		
		GX624A	GX629A	GX6216A	GX604	GX609	GX6016
VIDEO INPUT	SUPPORTED HD CAMERAS / DIGITAL CHANNEL RJ45, 10/100 BASE-T	4	9	16	4	9	16
VIDEO OUTPUT	DIGITAL VIDEO	1 Channel, 1280x720, 1920x1080					
	VGA	1 Channel, 1280x720, 1920x1080			-	-	-
	DISPLAY SCREEN	Full, Quad	Full, Quad, 3x3	Full, Quad, 3x3, Hex		-	
AUDIO INPUT	NO. OF CHANNELS	2			2		
	RCA	line level; output impedance: 30KΩ, frequency: 200-3500Hz					
AUDIO OUTPUT	NO. OF CHANNELS	Public addressing x 1, live / playback x 1					
	RCA	line level; output imedance 600Ω, frequency: 200-3500Hz					
	MODE	Manual, Schedule, Motion, Event-driven					
	HDD	SATA, internal x4 (Total up to 16TB)					
RECORDING	MAX. RECORDING RATE AT HD RESOLUTION	120fps	270fps	480fps	120fps	270fps	480fps
	PLAYBACK	Forward, backward, pause, step forward, step backward, fast forward, Spot Search					
	NETWORK	RJ-45, 10/100/1000 base-T Ethernet (auto-sensing)					
	CONCURRENT USERS	6 (independent)			6 (independent)		
	sureLINK	Support Internet connection assigned with dynamic IP address			Support Internet connection assigned with dynamic IP address		
COMMUNICATION	MAX. TRANSMISSION FRAME RATE	100fps	225fps	400fps	100fps	225fps	400fps
	WEB SERVER	Built-in			Built-in		
	KEYBOARD CONTROL	RS422/RS485, 1 channel input					
	USB	USB 2.0, 2 channels			USB 2.0, 2 channels		
EVENT HANDLING	EVENT	External alarm, Tamper, Video motion detection, Video loss, Power interruption, Disk full, System failure, Over Heat, Disk Failure			External alarm, Tamper, Video motion detection, Video loss, Power interruption, Disk full, System failure, Over Heat, Disk Failure		
	ACTION	Buzzer, Dial back, Local recording, Relay control, Email notification, SMS, PTZ			Buzzer, Dial back, Local recording, Relay control, Email notification, SMS, PTZ		
	EXTERNAL ALARM INPUTS	16x, NC/NO (with tamper detection)			16x, NC/NO (with tamper detection)		
RELAY SWITCH	NO. OF CHANNELS	4			4		
	MAX. RATING	24V AC, 1000mA			24V AC, 1000mA		
POWER	VOLTAGE	16V DC			16V DC		
	MAX. RATING	80W			80W		
OPERATING ENVIRONMENT	AMBIENT TEMPERATURE	5°C - 40°C			5°C - 40°C		
	RELATIVE HUMIDITY	< 85% (no condensation)			< 85% (no condensation)		
MECHANICAL DESIGN	DIMENSION	420mmx345mmx104mm			420mmx345mmx104mm		
	WEIGHT	4.9kg	5kg	5kg	4.9kg	5kg	5kg

System Configuration

Recording Size Requirements for TeleEye GX Video Recording Server & MX Cameras

	GX(16TB) & HD (1080p)		GX(16TB) & HD (720p)	
	12fps	3fps	12fps	3fps
4 No. of Cameras	9 weeks	18 weeks	20 weeks	37.5 weeks
9 No. of Cameras	4 weeks	8 weeks	9 weeks	16.5 weeks
16 No. of Cameras	2 weeks	4.5 weeks	5 weeks	9 weeks

Remarks: The tables illustrate the recording size requirements under different resolutions and performances. Actual recording size required is subject to actual camera situation. Please refer to the HD Calculator in TeleEye website for details

PC Requirements

	IE browser*	sureSIGHT Lite	sureSIGHT Business	sureSIGHT Pro#	sureGUARD
CPU:	Intel® Core™ i3 processor				
RAM:	2 GB				
HDD:	10 GB free space				
Display:	Direct 3D, Nvidia® GeForce® GT 220/ATI® Radeon® HD 5450 or above				
OS:	MS Windows XP/Vista/7/8			MS Windows XP/Vista/7/8 or MS Windows 2008 R2 (64-bit edition)	

* Java: Oracle Java 6 or above, I.E: Windows Internet Explorer Version 6 or above
 # The optional siteMATRIX module requires a multi-display graphic card, Nvidia® Quadro® NVS 450 or above

TeleEye Group