

GX Series

HD Digital Video Recorders

TeleEye



Faster Transmission, Longer Recording

TeleEye GX680 Series is a range of 4-, 9- & 16-channel digital video recorders, which is specially designed for HD remote video recording and transmission purposes. The new generation of GX recorders supports all TeleEye network cameras and third party ONVIF Profile S cameras. Real-time HD recording up to the maximum frame rate of 480fps at 1080p (1920 x 1080) resolution is fully supported. Thanks to TeleEye HD SMAC-M multi-stream video coder*, recording, local display and network viewing performances are optimised and not affected by each other. It compresses the video with 50% smaller in size compared to H.264** and therefore the GX recorders are able to make longer recording and faster video transmission whether it's on LAN, Internet or mobile network.

Your security is our top priority. The GX recorders allow the separation of a video network from a public network. Incorporating TeleEye Hacker Resistant technology, it provides even greater protection to the video data. Thus safeguarding users' confidential information.

GX
| HD Digital Video Recorder |

The GX680 Series is a key component of the TeleEye HD Video Surveillance Solution, in which also includes the HD IP cameras and video management platforms. All these components, combined with the cutting edge technologies by TeleEye, ensure seamless compatibility and enhanced performance to every level of security.

* For TeleEye MX Series cameras only.

** Data quote from: Secutech Camera Excellence Award 2011; Compression rate depends on actual scene under measurement & different results maybe obtained due to motion or scene changes.

Comprehensive HD Digital Video Recording Solution

TeleEye GX680 Series of digital video recorders incorporate the HD SMAC-M and Hacker Resistant technologies, protecting your crystal clear HD videos.



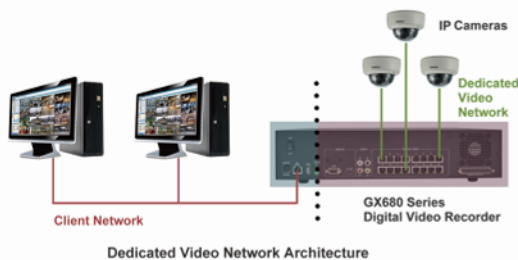
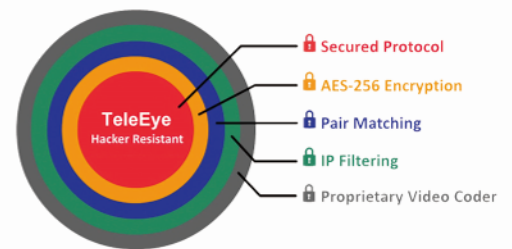
Faster Transmission, Longer Recording

TeleEye GX680 incorporates the HD SMAC-M multi stream video coder for HD videos. Its multi-stream architecture generates 4 independent data streams and allows simultaneous HD video recording at resolutions of 720p or 1080p. This assures optimised video recording and transmission performances across different environments via LAN, Broadband or mobile networks, allocating the best resources for video recording and viewing at various network capacities.

Hacker Resistant Technology

Many ordinary H.264 IP cameras are proven to be insecure, where hackers are able to bypass the security and access the live video footages remotely. Data security is always an important factor in the TeleEye product design. The TeleEye Hacker Resistant technology is incorporated in the TeleEye video surveillance solutions, shielding off hackers' attack via the internet.

5 Layers of Protection: AES 256-bit encryption, proprietary HD SMAC-M video coder, specific IP access, secure protocol and pair matching architecture.



Securing Your ONVIF cameras



GX680 Series of HD digital video recorders work impeccably with TeleEye cameras and third party ONVIF Profile S cameras. The GX recorders are able to completely separate the video network from an IP network; therefore, hackers are not able to directly access the video network and decode the data stream. Incorporating TeleEye Hacker Resistant technology, extra protection for the video data is provided during internet transmission. This solution enhances the entire video surveillance system and safeguards the users' confidential information effectively.

Features

- Independent & Efficient HD recording stream
- 1080p/ 720p HDTV resolution
- Video recording up to 480fps
- Supporting up to 4 SATA HDDs
- Support both static & dynamic IP
- IP filtering
- Mobile video monitoring
- Triplex operations: simultaneous monitoring, recording & playback
- BS 8418 compliant
- Sophisticated event management
- Mouse control
- Spot Search
- Supports ONVIF Profile S cameras
- CAMLOCK technology
- Live monitoring at 25 fps

Comprehensive HD Video Camera Range

TeleEye GX680 Series of HD DVRs and MX100 Series of HD network cameras are designed for HD remote video recording and transmission purposes. Both are able to work together to provide the users a complete end-to-end HD solution. The GX680 Series not only supports TeleEye network cameras but also supports other cameras in compliance with the ONVIF Profile S standard. This series of standalone DVRs provide end users with a flexible choice when it comes to video surveillance, but without compromising on video quality and data protection.



Extensive HD Video Management Software

The complete range of TeleEye HD products is compatible with the following back-end video management software to establish a comprehensive and seamless HD Video Surveillance Solution.

sureSIGHT - Video Management Solution

Versatile and professional, its modular and scalable design, provides users with tremendous flexibility, in order to build up the most suitable platform to cater for their specific video management requirements.



sureGUARD - Video Response Centre Solution

A proficient video alarm management solution for Remote Video Response Centres (RVRCs). It fully complies with the British Standard BS 8418 for remote monitoring of detector activated CCTV systems.

iView HD - Mobile Monitoring Solution

This video surveillance app, supports mobile video monitoring via iPhone, iPad and Android devices. This solution provides HD imagery and convenience for users who require access to live visual data from anywhere at anytime.



End-to-End HD Video Surveillance Solution

In comparison with many other IP video surveillance manufacturers that offer either cameras or NVRs, TeleEye provides a complete HD IP solution. This includes HD cameras, recorders and video management applications. The TeleEye HD solution guarantees optimised performance, flawless compatibility and a single contact point when technical support is required.

Recording Time Estimation for TeleEye GX680 Series Digital Video Recorder & MX100 Series Cameras

No. of channels	Recording frame rate (fps)	Storage Size (TB)	Duration
4	25	3.5	1 month
	12	8.5	3 months
9	8	11.5	2 months
	5	14.5	3 months
16	2	13	3 months

Remarks: The table illustrates 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.

SPECIFICATIONS

MODEL		GX684	GX689	GX6816
VIDEO INPUT	DIGITAL CHANNEL RJ45, 10/100/1000 BASE-T	4	9	16
VIDEO OUTPUT	DIGITAL VIDEO	1 Channel, 1920 x 1080		
	VGA	1 Channel, 1920 x 1080		
	DISPLAY SCREEN	Full, Quad	Full, Quad, 3 x 3	Full, Quad, 3 x 3, 4 x 4
AUDIO INPUT	NO. OF CHANNELS	4		
	RCA	Line level; input impedance: 30kΩ, frequency: 200-3500Hz		
AUDIO OUTPUT	NO. OF CHANNELS	1 for Playback, 1 for PA		
	RCA	Line level; output impedance: 600Ω, frequency: 200-3500Hz		
RECORDING	MODE	Manual, Schedule, Motion, Event-driven		
	HDD	SATA, internal x 4		
	MAX. RECORDING RATE	100 / 120fps	225 / 270fps	400 / 480fps
	PLAYBACK	Forward, Backward, Pause, Step Forward, Step Backward, Fast Forward, Spot Search		
COMMUNICATION	NETWORK	RJ-45, 10 / 100 / 1000 base-T Ethernet (auto-sensing)		
	CONCURRENT USERS	6 (independent)		
	sureLINK	Yes		
	MAX. TRANSMISSION FRAME RATE	100 / 120fps	225 / 270fps	400 / 480fps
	WEB SERVER	Built-in		
	KEYBOARD CONTROL	RS422 / RS485, 1 Channel Input		
	USB	3 x USB 2.0 High Speed 480Mbps		
EVENT HANDLING	EVENT	External Alarm, Tamper, Video Motion Detection, Video Loss, Power Interruption, Disk Full, System Failure, Disk Failure		
	ACTION	Buzzer, Dial Back, Local Recording, Relay Control, Email Notification, SMS, PTZ		
	EXTERNAL ALARM INPUTS	16x, NC / NO (with tamper detection)		
RELAY SWITCH	NO. OF CHANNELS	4		
	MAX. RATING	24V AC, 1000mA		
POWER	VOLTAGE	16V DC		
	MAX RATING	80W		
OPERATING ENVIRONMENT	AMBIENT TEMPERATURE	5°C - 50°C		
	RELATIVE HUMIDITY	< 85% (no condensation)		
MECHANICAL DESIGN	DIMENSION	420mm x 345mm x 104mm		
	WEIGHT	4.9kg	5kg	5kg



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