

RX800 Series

TeleEye

Ultra High Resolution Video Recording Servers



Flagship Solution for Professional Video and Event Management

TeleEye RX800 Series is a range of 6-, 12- and 16-channel ultra high resolution video recording servers designed for professional video surveillance and event management applications. With its state-of-the-art video compression engine supporting dual compression algorithms, TeleEye RX800 Series delivers both video streaming and recording performances with a truly "no compromise" approach.

With the high resolution footages recorded, it is equally important to ensure the security of the information. TeleEye hacker resistant technology is able to prevent any unauthorised access into the video surveillance systems.

In conjunction to numerous video management platforms available in the range, TeleEye RX800 Series is the ultimate solution for a wide range of professional video surveillance requirements.



RX



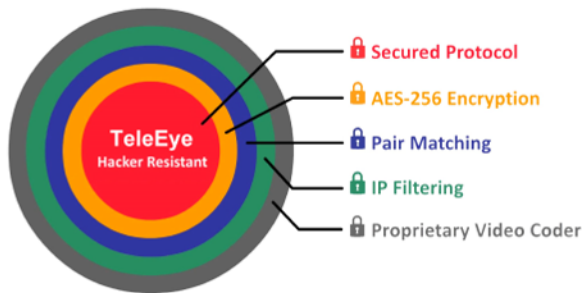
Crystal Clear Recording with Greater Detail



TeleEye RX800 Series video recording servers capture videos with maximum resolution of 960x576 and 960x480 for PAL and NTSC signals respectively. With 33% higher resolution than other D1 resolution DVRs in the market, TeleEye RX800 Series can get extra detail from contemporary analogue cameras reaching 700TVL or more. In addition to the advantage of video resolution, TeleEye RX800 Series supports real time recording on all video channels, which can avoid missing out any important moments in the video footage.

Revolutionary 6- & 12-Channel Designs

All video display monitors currently available in the market come with 16:9 wide screen formats, whilst analogue cameras still generate videos in 4:3 aspect ratio. The conventional single, 2x2 and 3x3 screen layouts cannot fill up a wide screen display monitor. Hence traditional DVRs require stretching and distorting the original videos in order to fill up the whole screen. To overcome this issue, TeleEye RX800 Series allows extra video inputs for additional cameras to fully utilise all the space on the screen, which offers 6- and 12-channel instead of 4- and 8-channel models. These models offer revolutionary 3x2 and 4x3 screen layouts which can perfectly fill a wide screen display up with 4:3 videos. In other words, users can install extra cameras to have additional viewing angles, whilst safeguarding the premises against any trespassers.



Hacker Resistant Design

TeleEye always focuses on professional video surveillance applications. Therefore data security is a serious concern in the design philosophy. In view of the Internet-based communication protocols commonly use in other video surveillance solutions are insecure, TeleEye develops its own hacker resistant technology that consists of 5 protection layers in order to make it an all round protection scheme from different perspectives. This hacker resistant technology is fully implemented in all TeleEye RX800 Series video recording servers to minimise the chances of hacker attacks.

Features

- Maximum resolution: 960 x 576 (PAL), 960 x 480 (NTSC)
- Real time recording up to 400/480fps
- Hacker resistant technology with 5 protection layers
- Extended recording duration with 4x HDDs
- Flexible searching options for locating video footage swiftly
- Dual Compression: Enhanced SMAC-M + H.264
- BS 8418 compliant for professional alarm verification
- Excellent traceability on events and operations
- sureLINK for reliable Internet connection with dynamic IP
- Compatibility to sureSIGHT, sureGUARD and iView HD



Enhanced Recording & Video Streaming Performances

SMAC-M: Multi-stream Video Coding Technology



TeleEye RX800 Series video recording servers incorporate with a new video engine supporting dual compression formats. It generates one H.264 video stream dedicated for video recording. On the other hand, the enhanced SMAC-M coder implemented in the video engine generates up to three additional independent data feeds for optimising the video streaming performance over different network environments simultaneously. The SMAC-M coder is proven to be one of the most efficient means for compressing and streaming video in low to medium bandwidth communication media.

Numerous Video Management Options to Cater for Specific Needs

TeleEye offers a number of video management platforms to meet different application requirements.

sureSIGHT is primarily designed for general video surveillance of one or multiple TeleEye video devices. The highly scalable architecture makes sureSIGHT flexible to configure for different operational scales.

sureGUARD is a BS8418 compliant event driven video management platform designed for visual alarm verification applications. It facilitates speedy alarm verification to greatly improve the efficiency of operators in the video control room. It is the best suitable solution for security service providers running 7x24 alarm verification services for their clientele.

TeleEye iView HD is a range of mobile apps for users monitoring their premise by using smart phones or tablet devices running iOS or Android.



Integrated Video & Event Management Solution

If general surveillance and video recording cannot fully satisfy your security needs, TeleEye RX800 Series video recording servers can also be used in an event-driven video surveillance solution for active deterrence of crimes and visual alarm verification.

TeleEye RX800 Series video recording servers conform to BS 8418, with stringent requirements on design robustness, failover capability, traceability of events and operations.



Product Specification

MODEL		RX806	RX812	RX816
VIDEO INPUT	NO. OF CHANNELS	6	12	16
	FORMAT	PAL: 625 lines, 25fps NTSC: 525 lines, 30fps composite video, 1Vpp, 75Ω, BNC		
	RESOLUTION	PAL: 960x576 NTSC: 960x480		
VIDEO OUTPUT	DIGITAL TV	1 Channel, 1920x1080 50p/60p		
	VGA	1 Channel, 1920x1080 50p/60p		
	LOOP THROUGH*	6	12	16
	SPOT ALARM OUT	BNC x 1		
AUDIO INPUT	NO. OF CHANNELS**	6	12	16
	STANDARD	line level RCA; input impedance: 30kΩ, frequency: 200-3500Hz		
AUDIO OUTPUT	NO. OF CHANNELS	public addressing x 1, audio output x 1		
	STANDARD	line level RCA; output impedance: 600Ω, frequency: 200-3500Hz		
RECORDING	INTERNAL HDD	Up to 4 SATA HDDs		
	MAX. RECORDING RATE	PAL: 150fps NTSC: 180fps	PAL: 300fps NTSC: 360fps	PAL: 400fps NTSC: 480fps
	MODE	manual, schedule, motion, event-driven		
	RETENTION	1-999 days retention period		
	PLAYBACK	forward, backward, pause, step forward, step backward, fast forward		
VIDEO EXTRACTION	MEDIA	USB flash, HDD and TCP/IP		
	MODES	all cameras, selected cameras, quick mode		
COMMUNICATION	NETWORK	RJ-45, 10/100 base-T ethernet		
	CONCURRENT USERS	6		
	CONNECTION STREAM	LAN / broadband / narrowband / mobile		
	BUILT-IN WEB SERVER	JAVA		
	KEYBOARD CONTROL	RS-422 / RS485, 1 channel input		
	USB	USB2.0, 3 channels		
	OTHERS	support USB 3G modem, sureLINK and uPNP		
EVENT HANDLING	EVENT	external alarm, tamper, motion detection, video loss, power interruption, disk full, system failure, disk fault		
	ACTION	buzzer, dial back, local recording, relay control, email notification, SMS, PTZ, spot alarm		
	EXTERNAL ALARM INPUTS	16x, NC/NO (with tamper detection)		
RELAY SWITCH	NO. OF CHANNELS	4 (push-button / latch)		
	MAX. RATING	24V, 1000mA		
POWER	VOLTAGE	16V DC		
	MAX. RATING	55W		
OPERATING ENVIRONMENT	AMBIENT TEMPERATURE	5°C - 50°C		
	RELATIVE HUMIDITY	<85% (non-condensation)		
MECHANICAL DESIGN	DIMENSION	420mm x 345mm x 104mm		
	WEIGHT	6.5kg		

Notes:
*Optional accessory needed for BNC out.
**Optional accessory needed for more than 4 channels.

Recording Time Estimation for TeleEye RX800 Series Video Recording Server

No. of channels	Recording frame rate (fps)	Storage size (TB)	Duration
4	25	2.5	1 month
6	12	4.5	2 months
8	5	3	3 months
12	3	4.5	4.5 months
16	2	5.5	6 months

Remarks: The table illustrates the recording size and duration under different no. of channels and frame rate. Actual recording size required is subject to actual camera situation. For calculation based on other settings, please refer to the HDD calculator in the TeleEye website.



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