

TeleEye

Video Recording Server | RX Series



RX



No compromise on fast video transmission and DVD-quality recording

TeleEye RX carries a range of professional digital video recording servers, which is designed to operate on diverse network environment and fully utilize the existing network bandwidth with optimal performance. Incorporating revolutionary multi-stream video coding technology (SMAC-M), the gold-award winning **TeleEye** RX delivers truly "no compromise" on both efficient video transmission and excellent DVD quality recording performance.

With built-in DVD-writer, removable hard drive and composite video output design, **TeleEye** RX makes recording, storage, retrieval and video monitoring much simple and flexible. **TeleEye** RX is one of the first video recording servers in the world in compliance of the recognized British Code of Practice BS 8418:2003.

For high performance video recording and visual alarm verification solution, **TeleEye** RX is your right choice!



RX Series | Video Recording Server

Features:

- Multi-stream Video Coding Technology
- Flexible connections: LAN, ADSL, PSTN & mobile network...
- Dual connectivity: Simultaneous TCP/IP & dial-up connections
- Video transmission up to 100/120fps on LAN
- Recording up to 100/120fps at D1 & 200/240fps at CIF*
- Triplex operation: simultaneous monitoring, recording & playback
- Multiple login account
- Up to 16 video & alarm input models
- Support both static & dynamic IP
- Built-in web server & live video on web
- Independent remote viewers
- Mobile video monitoring with M-303
- Single- & multi-site monitoring
- Remote audio transmission
- Compliance with BS 8418:2003
- Sophisticated event management
- System arm / disarm
- Pre- & post-alarm video recording
- Tamper & power interruption detection
- Entry / exit zone configurable on all alarm inputs
- Composite / VGA video output with OSD menu*
- Video footage extraction through DVD writer & USB flash drive
- Remote keyboard control
- Compatibility with popular telemetry protocols
- Unlimited video storage expansion

* For RX368, RX3616, RX328 & RX3216 only

Comprehensive Product Family

TeleEye RX Series holds two lines of video recording server, a network storage extension unit and application software to cater different applications.



RX360 Series

High performance video recording server with built-in DVD-writer and removable hard drive for standalone and remote operations.

RX320 Series

All-in-one triplex operating system supporting up to two internal hard drives and a composite video output design.

RX-SE

Network storage extension unit to increase recording capacity of RX360 and RX320 Series for long period recording requirement.

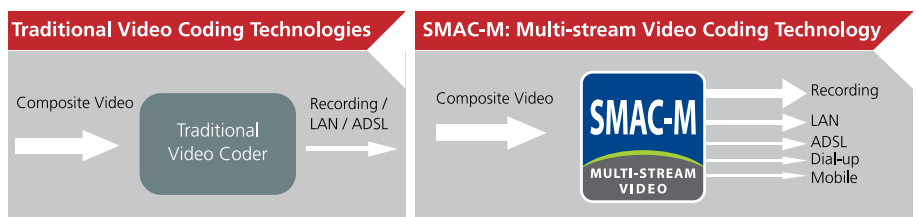
Multi-stream Video Coding Technology



Incorporating proprietary compression video technology, namely Multi-stream Scalable Motion Adaptive Video Coder (SMAC-M), **TeleEye** RX digitally compresses videos and generates independent data streams to cater for efficient transmission and high resolution recording.

Seamless video transmission by **TeleEye** RX can be performed in low to medium bandwidth communication networks including ADSL, PSTN & mobile; whilst DVD-quality videos can be transmitted through LAN and recorded into its local hard drive with optimum speed at 100/120fps at D1 resolution. Real time recording (200/240fps) on all video channels can be achieved at CIF resolution.

SMAC-M compresses better and records 60% longer than MPEG-4 at the same picture resolution, quality and frame rate. This saves HDD cost and reduces management headaches.

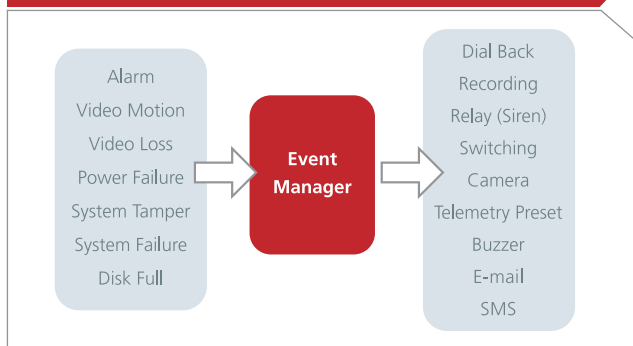


* For RX368, RX3616, RX328 & RX3216 only

Sophisticated Event Management

TeleEye RX provides professional and real life security control of premises with its sophisticated event management scheme. It responds to wide range of events triggered by external alarm sensor, video motion, power interruption and tamper. There is an arm/disarm control for the event management mechanism. Every external alarm input is configurable with an individual entry/exit delay, fire zone and tamper detection setting. Various actions like sending video back to a designated receiving PC, video recording, email notification, etc. can be pre-set for different events.

Event Management Scheme of RX Series



Quick Video Extraction

With DVD-writer & USB interface, video footage stored inside **TeleEye** RX can be easily extracted for evidential purposes. Recorded video can be backed up in DVD & USB flash drive and played back in any PC without any special software. **TeleEye** RX can also extract video remotely without the need being to the site.

Versatile Telemetry Equipment Control

TeleEye RX works well with a wide range of telemetry systems and speed domes available in the marketplace like **TeleEye** DM, Pelco, Panasonic, VCL.... The system can remotely control the camera to pan, tilt and zoom for detailed viewing, follow actions of suspects and survey key points.

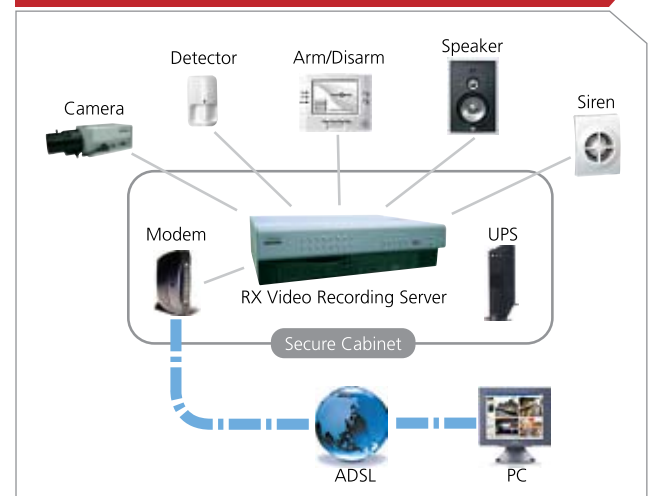
Low Cost Dynamic IP Internet Connection

TeleEye RX incorporated with the Group's proprietary **sureLINK** technology which allows low cost dynamic IP Internet connection. Users can obtain real time video by just using their sub-domain names anytime around the world.

Professional Visual Alarm Verification Solution

TeleEye RX is designed to fully comply with the British Standard BS 8418:2003, providing professional remote monitoring and visual alarm verification solution to central monitoring stations. Features conforming to BS 8418 standard include tamper and power failure detection, data retention, system arm/disarm setting, entry/exit zone configuration, connection authentication and many more.

BS 8418:2003 Compliant Configuration



Live Video on Web

All **TeleEye** RX comes with built-in web servers. Users can connect the server to record and playback video with a standard web browser. By using **Cyber TeleEye** Web Video Solution, users can add live video onto existing web sites.



Gold Award Winning Products

TeleEye RX won the Gold Award (Security Category) in the Hong Kong Electronics Fair 2007, the largest electronic product exhibitions in Asia and second largest in the world for Outstanding Innovation and Technology Product.



TeleEye RX Series Video Recording Servers



RX364 / 368 / 3616

Standalone & Remote Viewing & Recording

- Removable hard drive for flexible recording expansion
- Built-in DVD-writer & USB interface for fast video extraction
- Video recording up to 100/120fps at D1 & 200/240fps at CIF resolution
- Independent remote viewers



RX324 / 328 / 3216

Standalone & Remote Viewing & Recording

- Supporting up to 2 internal hard drives for enhancing recording capacity
- Simultaneous monitoring, recording & playback
- Video recording rate up to 100/120fps at D1 & 200/240fps at CIF resolution



RX-SE

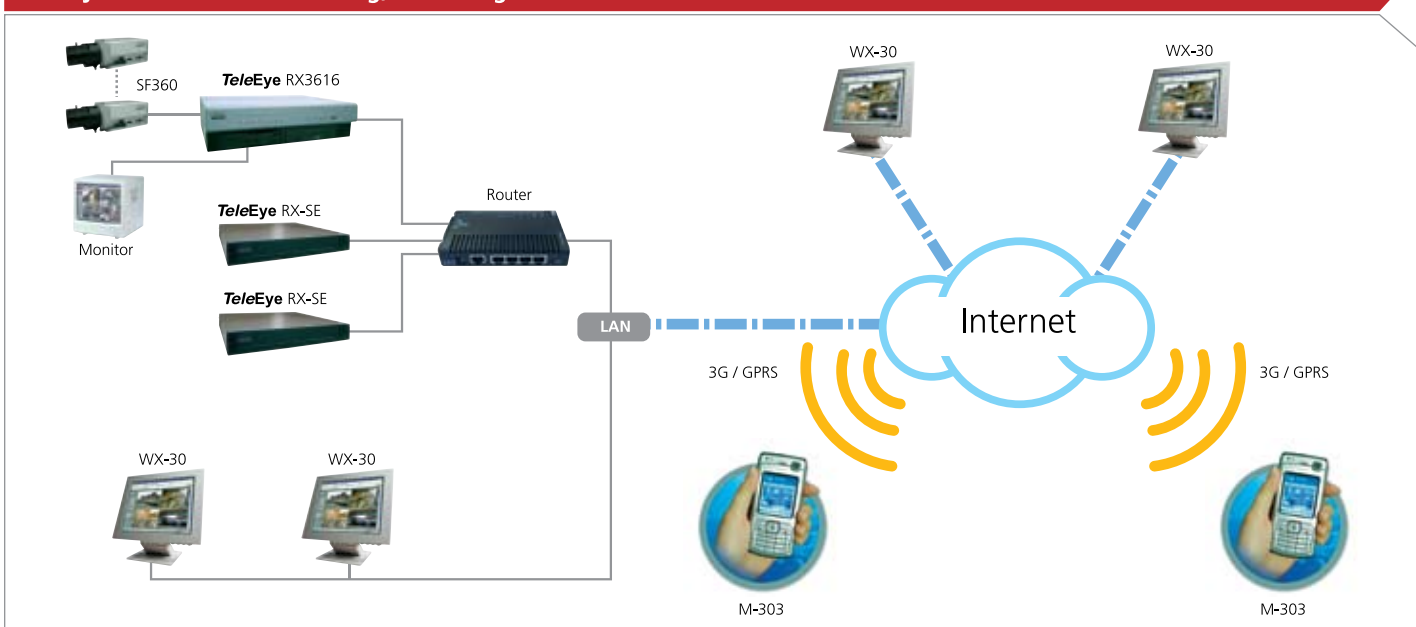
Network Storage Extension

- Expanding storage capacity for RX
- Scalable architecture design

RX-SE Specification

COMMUNICATION	NETWORK	RJ-45, 10/100 base-T ethernet (auto-sensing)
	RS232 PORT	RS-232C: DB-9 male, asynchronous, 8 data bits, 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow control
HARDDISK	TYPE	internal x 2
POWER	VOLTAGE	12V DC
	MAX. RATING	55W
OPERATING ENVIRONMENT	AMBIENT TEMPERATURE	5°C - 45°C
	RELATIVE HUMIDITY	< 85% (no condensation)
MECHANICAL DESIGN	DIMENSION	400 mm x 380 mm x 65 mm
	WEIGHT	3.5 kg

TeleEye RX Standalone Viewing, Recording & Remote Video Transmission



Product Specification

MODEL	RX364	RX368	RX3616	RX324	RX328	RX3216
VIDEO INPUT	STANDARD	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second composite video, 1Vp-p, BNC	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second composite video, 1Vp-p, BNC	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second composite video, 1Vp-p, BNC	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second composite video, 1Vp-p, BNC	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second composite video, 1Vp-p, BNC
VIDEO OUTPUT	NO. OF CHANNELS	4	8	16	4	8
	COMPOSITE	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second 1Vp-p, BNC	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second 1Vp-p, BNC	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second 1Vp-p, BNC	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second 1Vp-p, BNC	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second 1Vp-p, BNC
STANDALONE OPERATION	VGA	-	Yes (optional)	-	-	Yes (optional)
RECORDING	NO. OF CHANNELS	1	2 (main, spot)	1	1	2 (main, spot)
	DISPLAY SCREEN	full screen, quad screen	full screen, quad screen, 3 x 3 screen	full screen, quad screen 3 x 3 screen, hex screen	full screen, quad screen 3 x 3 screen	full screen, quad screen, 3 x 3 screen, hex screen
	DISPLAY FRAME RATE	25/30fps D1, 100/120fps CIF	25/30fps D1, 100/120fps CIF, 200/240fps 3x3	25/30fps D1, 100/120fps CIF, 200/240fps 3x3, 400/480fps QCIF	25/30fps D1, 100/120fps CIF, 200/240fps 3x3	25/30fps D1, 100/120fps CIF, 200/240fps 3x3, 400/480fps QCIF
	TYPE	system configuration, operation, audit trail	system configuration, operation, audit trail	system configuration, operation, audit trail	system configuration, operation, audit trail	system configuration, operation, audit trail
	MODE	manual, schedule, event-driven	removable	manual, schedule, event-driven	manual, schedule, event-driven	manual, schedule, event-driven
	HD TYPE				internal x 2	
	MAX. RECORDING RATE	(P): 25fps at 720 x 576 pixels; 100fps at 360 x 288 pixels (N): 30fps at 720 x 480 pixels; 120fps at 360 x 240 pixels	(P): 100fps at 720 x 576 pixels; 200fps at 360 x 288 pixels (N): 120fps at 720 x 480 pixels; 240fps at 360 x 240 pixels	(P): 25fps at 720 x 576 pixels; 100fps at 360 x 288 pixels (N): 30fps at 720 x 480 pixels; 120fps at 360 x 240 pixels	(P): 100fps at 720 x 576 pixels; 200fps at 360 x 288 pixels (N): 120fps at 720 x 480 pixels; 240fps at 360 x 240 pixels	(P): 100fps at 720 x 576 pixels; 200fps at 360 x 288 pixels (N): 120fps at 720 x 480 pixels; 240fps at 360 x 240 pixels
	PLAYBACK	Forward, Backward, Pause, Step Forward, Step Backward, x10 Fast Forward	Forward, Backward, Step Backward, x10 Fast Forward, x100 Fast Forward	Forward, Backward, Pause, Step Forward, Step Backward, x10 Fast Forward, x100 Fast Forward	Forward, Backward, Pause, Step Forward, Step Backward, x10 Fast Forward, x100 Fast Forward	Forward, Backward, Pause, Step Forward, Step Backward, x10 Fast Forward, x100 Fast Forward
COMMUNICATION	NETWORK	RJ-45, 10/100 base-T ethernet (auto-sensing)	RJ-45, 10/100 base-T ethernet (auto-sensing)	RJ-45, 10/100 base-T ethernet (auto-sensing)	RJ-45, 10/100 base-T ethernet (auto-sensing)	RJ-45, 10/100 base-T ethernet (auto-sensing)
	CONCURRENT USERS	6 (independent)	6 (independent)	6 (independent)	6 (independent)	6 (independent)
	sureLINK	support Internet connection assigned with dynamic IP address	support Internet connection assigned with dynamic IP address	support Internet connection assigned with dynamic IP address	support Internet connection assigned with dynamic IP address	support Internet connection assigned with dynamic IP address
	MAX. TRANSMISSION FRAME RATE	25/30fps D1, 50/60fps CIF	25/30fps D1, 100/120fps CIF	25/30fps D1, 50/60fps CIF	25/30fps D1, 50/60fps CIF	25/30fps D1, 100/120fps CIF
	WEB SERVER	Built-in	Built-in	Built-in	Built-in	Built-in
	MODEM PORT	RS-232C: DB-9 male, asynchronous, 8 data bits, 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow control	RS-232C: DB-9 male, asynchronous, 8 data bits, 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow control	RS-232C: DB-9 male, asynchronous, 8 data bits, 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow control	RS-232C: DB-9 male, asynchronous, 8 data bits, 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow control	RS-232C: DB-9 male, asynchronous, 8 data bits, 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow control
	TELEMETRY CONTROL	keyboard / camera port: RS-422/485: 2-way terminal, asynchronous, 8 data bits, 1 stop bit, no parity, 2.4-19.2kbps	keyboard / camera port: RS-422/485: 2-way terminal, asynchronous, 8 data bits, 1 stop bit, no parity, 2.4-19.2kbps	keyboard / camera port: RS-422/485: 2-way terminal, asynchronous, 8 data bits, 1 stop bit, no parity, 2.4-19.2kbps	keyboard / camera port: RS-422/485: 2-way terminal, asynchronous, 8 data bits, 1 stop bit, no parity, 2.4-19.2kbps	keyboard / camera port: RS-422/485: 2-way terminal, asynchronous, 8 data bits, 1 stop bit, no parity, 2.4-19.2kbps
	USB	USB2.0, 12Mbps	USB2.0, 12Mbps	USB2.0, 12Mbps	USB2.0, 12Mbps	USB2.0, 12Mbps
DVD WRITER	TYPE	Built-in	Built-in	Built-in	Built-in	external (optional)
AUDIO	INPUT	1 channel, RCA, line level	2 channels, RCA, line level	1 channel, RCA, line level	1 channel, RCA, line level	2 channels, RCA, line level
	OUTPUT	input impedance: 30kΩ, frequency: 200-3500Hz	input impedance: 30kΩ, frequency: 200-3500Hz	input impedance: 30kΩ, frequency: 200-3500Hz	input impedance: 30kΩ, frequency: 200-3500Hz	input impedance: 30kΩ, frequency: 200-3500Hz
	EVENT TYPE	PA / output: 1 channel, RCA, line level; output impedance: 600Ω, frequency: 200-3500Hz	PA / output: 1 channel, RCA, line level; output impedance: 600Ω, frequency: 200-3500Hz	PA / output: 1 channel, RCA, line level; output impedance: 600Ω, frequency: 200-3500Hz	PA / output: 1 channel, RCA, line level; output impedance: 600Ω, frequency: 200-3500Hz	PA / output: 1 channel, RCA, line level; output impedance: 600Ω, frequency: 200-3500Hz
	EVENT HANDLING	external alarm, tamper, video motion detection, video loss, power interruption, disk full, system failure	external alarm, tamper, video motion detection, video loss, power interruption, disk full, system failure	external alarm, tamper, video motion detection, video loss, power interruption, disk full, system failure	external alarm, tamper, video motion detection, video loss, power interruption, disk full, system failure	external alarm, tamper, video motion detection, video loss, power interruption, disk full, system failure
	ACTION TYPE	buzzer, dial back, local recording, relay control, email notification, camera setting, telemetry preset, SMS	buzzer, dial back, local recording, relay control, email notification, camera setting, telemetry preset, SMS	buzzer, dial back, local recording, relay control, email notification, camera setting, telemetry preset, SMS	buzzer, dial back, local recording, relay control, email notification, camera setting, telemetry preset, SMS	buzzer, dial back, local recording, relay control, email notification, camera setting, telemetry preset, SMS
	EXTERNAL ALARM INPUTS	16x, NC/NO	16x, NC/NO	16x, NC/NO	16x, NC/NO	16x, NC/NO
RELAY SWITCH	NO. OF CHANNELS	4	4	4	4	4
	MAX. RATING	24V AC, 1000mA	24V AC, 1000mA	24V AC, 1000mA	24V AC, 1000mA	24V AC, 1000mA
	VOLTAGE	12V DC	12V DC	12V DC	12V DC	12V DC
POWER	MAX. RATING	50W	55W	70W	60W	65W
	OPERATING ENVIRONMENT	5°C - 40°C	5°C - 40°C	5°C - 40°C	5°C - 40°C	5°C - 40°C
	RELATIVE HUMIDITY	< 85% (no condensation)	< 85% (no condensation)	< 85% (no condensation)	< 85% (no condensation)	< 85% (no condensation)
MECHANICAL DESIGN	DIMENSION	400 mm x 365 mm x 120 mm	400 mm x 365 mm x 120 mm	400 mm x 380 mm x 65 mm	400 mm x 380 mm x 65 mm	400 mm x 380 mm x 65 mm
	WEIGHT	6.5 kg	6.7 kg	6.7 kg	3.2 kg	3.4 kg

TeleEye Application Software Program



Single-site Monitoring

TeleEye Single-site Reception Software (WX-30) allows connection to **TeleEye** RX via TCP/IP or PSTN.

- Digital video recording and intelligent playback search
- Automatic video recording on event
- Electronic patrol & comprehensive event log



Multi-site Monitoring

TeleEye Multi-site Monitoring Software (WX-M16) allows connections up to 16 servers or cameras simultaneously via LAN or the Internet.

- Up to 16 sites/cameras monitoring
- Network scalable configurations
- Digital video recording & electronic patrol



Central Monitoring Station

TeleEye Central Monitoring Station (CMS) offers central monitoring station managers new level of management control and so offering enhanced services to their clients.

- Design for multiple-site, multiple-user environment
- Assignable authority rights for individual users
- Comprehensive site database, including key holder information, floor plan, reference images...
- Sophisticated event and activity logging
- British Standard BS 8418 compliance



Mobile Video Monitoring

TeleEye M-monitoring Solution (M-303) gives you real time video viewing with your existing mobile phone.

- Video transmission: 3G, GPRS, EDGE, HSDPA...
- Event reporting & telemetry control

Recording Size Requirements on TeleEye RX Video Recording Servers

Model	D1: 720 x 576		CIF: 360 x 288	
	Frame Rate: (fps)	Size per day (GB)	Frame Rate (fps)	Size per day (GB)
RX324 / RX364	25	25	100	20
RX324 / RX364	4	8	4	2
RX328 / RX368	100	120	200	40
RX3216 / RX3616	100	120	200	50

Remark: The above calculation is based on PAL video standard and recording of all cameras with moderate motion at medium quality setting. Actual recording size required is subject to actual camera situation.

PC Requirements

	WX-30	WX-M16	CMS
CPU:	Pentium IV 2.4GHz or above	Pentium @ Dual-Core 2.2GHz or above	
RAM:	1 GB or above		2 GB or above
HDD:	1 GB of free disk space or above		
Display:	1024x768, true colour		
OS:	MS Windows XP, Vista		



TeleEye Group

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