RX Series
Video Recording Server

TeleEye

Enter

RX

TeleEye
www.TeleEye.com

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

SMAC-M
multi-stream video

RX

DVD
RW

3G • GPRS

SMAC-M
MULTI-STREAM VIDEO

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 VGA 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.

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

RX

| Video Recording Server |

RX Series
Video Recording Server

Features:

- Multi-stream Video Coding Technology

- Flexible connections:
  LAN, broadband & mobile network...

- Video transmission up to 100/120fps on LAN

- Recording up to 100/120fps at D1 &
  400/480fps at CIF*

- Triplex operation: simultaneous monitoring,
  recording & playback

- Multiple login account

- Up to 16 video & alarm input models

- Support both static & dynamic IP

- IP filtering

- Built-in web server & live video on web

- Independent remote viewers

- Mobile video monitoring

- Single & multi-site monitoring

- Remote audio transmission

- Compliance with BS 8418

- Sophisticated event management

- System arm / disarm

- Pre- & post-alarm video recording

- Tamper & power interruption detection

- Entry / exit zone configurable on all
  alarm inputs

- VGA video output with OSD menu

- Video footage extraction through DVD writer
  & USB flash drive

- Remote keyboard control & IR remote
  controller

- Compatibility with popular telemetry
  protocols

- USB connection for mobile data modem

- Connectivity failover to mobile network

For RX3616 & RX3216 only

Comprehensive Product Family

TeleEye RX Series holds two lines of video recording server 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 two internal hard drives and a VGA output design.

Multi-stream Video Coding Technology
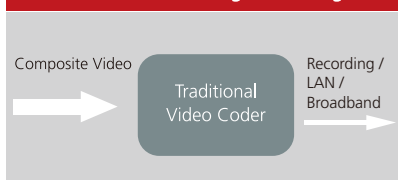
SMAC-M
MULTI-STREAM VIDEO

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 and 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 (400/480fps) 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.

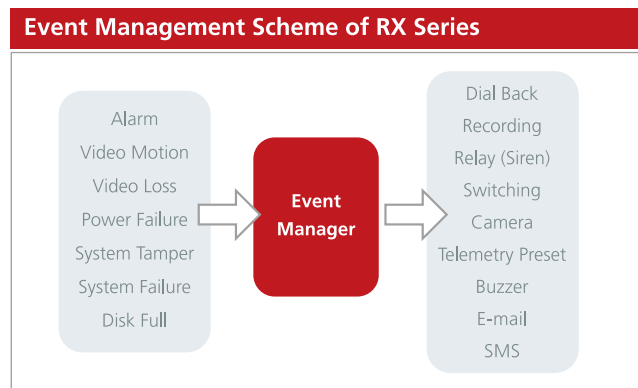| Traditional Video Coding Technologies	SMAC-M: Multi-stream Video Coding Technology
Composite Video → Traditional Video Coder → Recording / LAN / Broadband	Composite Video → SMAC-M MULTI-STREAM VIDEO → Recording, LAN, Broadband, Mobile

Sophisticated Event Management

TeleEye RX provides professional and real life security control of premises with its sophisticated event management scheme. It responses 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

Input		Output
Alarm		Dial Back
Video Motion		Recording
Video Loss		Relay (Siren)
Power Failure	**Event Manager**	Switching
System Tamper		Camera
System Failure		Telemetry Preset
Disk Full		Buzzer
		E-mail
		SMS

Quick Video Extraction

With DVD-writer and USB interface, video footage stored inside TeleEye RX can be easily extracted for evidential purposes. Recorded video can be backed up in DVD and 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, 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. If TeleEye RX detects a breakdown in the primary connection medium, like ADSL, it can switch the communication over automatically through to a 3G USB modem in emergency situations.

BS 8418 Compliant Configuration

Camera | Detector | Arm/Disarm | Speaker | Siren
Router | RX Video Recording Server | UPS
Secure Cabinet
Internet | PC
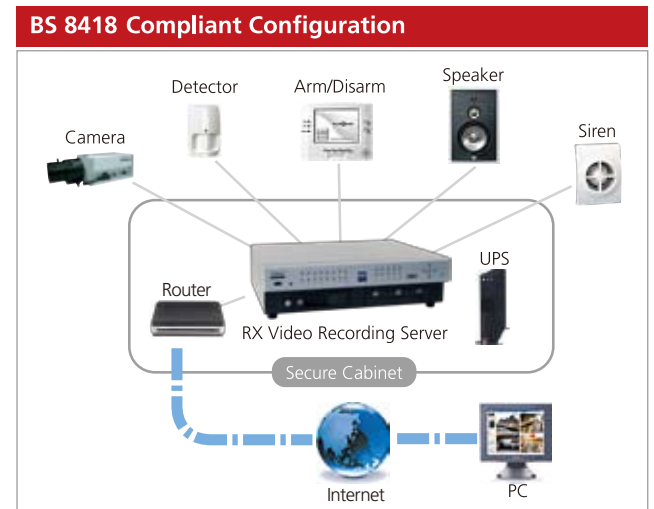
Live Video on Web

All TeleEye RX models come with built-in web servers. Users can connect the transmitter to view and playback video with a standard web browser. System configurations can be done through web server easily.

IP Filtering

As network security is a growing concern nowadays, all TeleEye RX models incorporate the "IP filtering" feature in which system administrators can control their RX video recording servers to be exclusively accessed or prohibited from certain PCs in the network with specific IP address ranges.

TeleEye RX Series Video Recording Servers

RX364 / 368 / 3616
Recording, Standalone & Remote Viewing

- 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 & 400/480fps at CIF resolution

- Independent remote viewers

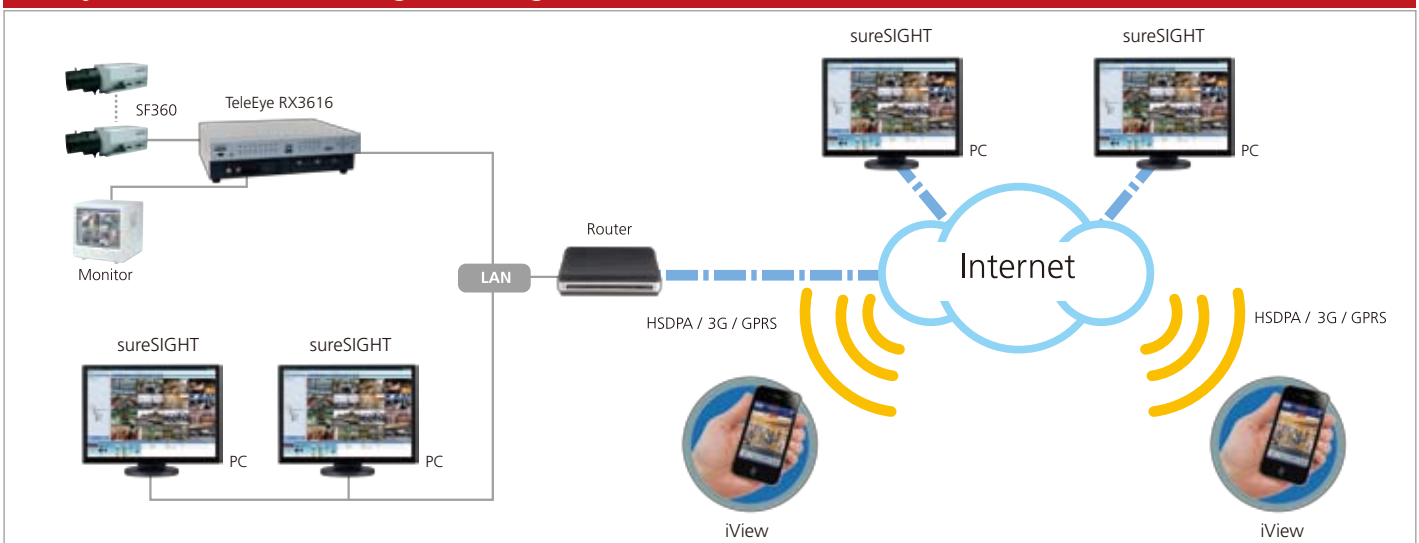### RX324 / 328 / 3216
Recording, Standalone & Remote Viewing

- Supporting 2 internal hard drive for enhancing recording capacity

- USB interface for fast video extraction

- Simultaneous monitoring, recording & playback

- Video recording rate up to 100/120fps at D1 & 400/480fps at CIF resolution

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	26	100	29
	4	7	4	3.5
RX328 / RX368	100	74	–	–
	50	48	200	60
	8	14	8	7
RX3216 / RX3616	100	95	400	118
	50	61	200	76
	16	28	16	14

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.

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		
	NO. OF CHANNELS	4	8	16	4	8	16
VIDEO OUTPUT	VGA	1 Channel, 1024 x 768, 1280 x 1024			1 Channel, 1024 x 768, 1280 x 1024		
	COMPOSITE	1			1		
	DISPLAY SCREEN	full screen, quad screen	full screen, quad screen, 3 x 3 screen		full screen, quad 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	25/30fps D1, 100/120fps CIF, 200/240fps 3x3	25/30fps D1, 100/120fps CIF, 200/240fps 3x3, 400/480fps QCIF
STANDALONE OPERATION	TYPE	system configuration, operation, audit trail			system configuration, operation, audit trail		
RECORDING	MODE	manual, schedule, motion, event-driven			manual, schedule, motion, event-driven		
	HD TYPE	SATA, removable x 1			SATA, 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; 400fps at 360 x 288 pixels (N): 120fps at 720 x 480 pixels; 480fps 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; 400fps at 360 x 288 pixels (N): 120fps at 720 x 480 pixels; 480fps at 360 x 240 pixels
	PLAYBACK	Forward, Backward, Pause, Step Forward, Step Backward, x10 Fast Forward, x25 Fast Forward			Forward, Backward, Pause, Step Forward, Step Backward, x10 Fast Forward, x25 Fast Forward		
COMMUNICATION	NETWORK	RJ-45, 10/100 base-T ethernet (auto-sensing), UPNP			RJ-45, 10/100 base-T ethernet (auto-sensing), UPNP		
	CONCURRENT USERS	6 (independent)			6 (independent)		
	sureLINK	support Internet connection assigned with dynamic IP address			support Internet connection assigned with dynamic IP address		
	MAX. TRANSMISSION FRAME RATE	25/30fps D1, 100/120fps CIF			25/30fps D1, 100/120fps CIF		
	WEB SERVER	Built-in			Built-in		
	TELEMETRY CONTROL	RS-422 / 485			RS-422 / 485		
	USB	USB2.0			USB2.0		
DVD WRITER	TYPE	Built-in			External (optional)		
AUDIO	INPUT	2 channels, RCA, line level; input impedance: 30kΩ, frequency: 200-3500Hz			2 channels, RCA, line level; input impedance: 30kΩ, frequency: 200-3500Hz		
	OUTPUT	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	EVENT TYPE	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, telemetry preset, SMS			buzzer, dial back, local recording, relay control, email notification, telemetry preset, SMS		
	EXTERNAL ALARM INPUTS	16x, NC/NO (tamper detection)			16x, NC/NO (tamper detection)		
RELAY SWITCH	NO. OF CHANNELS	4			4		
	MAX. RATING	24V AC, 1000mA			24V AC, 1000mA		
POWER	VOLTAGE	12V DC			12V DC		
	MAX. RATING	50W	55W		55W	60W	
ENVIRONMENT	AMBIENT TEMPERATURE	5°C - 40°C			5°C - 40°C		
	RELATIVE HUMIDITY	< 85% (no condensation)			< 85% (no condensation)		
MECHANICAL DESIGN	DIMENSION	400 mm x 365 mm x 120 mm			400 mm x 365 mm x 65 mm		
	WEIGHT	5.2 kg	5.4 kg	5.4 kg	3.6 kg	3.7 kg	3.8 kg

PC Requirements

	IE browser*	WX-30	sureSIGHT Lite	sureSIGHT Business	sureSIGHT Pro#	sureGUARD
CPU:	Intel® Core™ i3 Processor	Intel® Core™ i3 Processor	Intel® Core™ i3 Processor	Intel® Core™ i3 Processor	Intel® Core™ i3 Processor	Intel® Core™ i3 Processor
RAM:	2 GB	2 GB	2 GB	2 GB	2 GB	2 GB
HDD:	10 GB Free Space	10 GB Free Space	10 GB Free Space	10 GB Free Space	10 GB Free Space	10 GB Free Space
Display:	Direct 3D, Nvidia® GeForce® GT 220/ ATI® Radeon® HD 5450 or above	Direct 3D, Nvidia® GeForce® GT 220/ ATI® Radeon® HD 5450 or above	Direct 3D, Nvidia® GeForce® GT 220/ ATI® Radeon® HD 5450 or above	1Direct 3D, Nvidia® GeForce® GT 220/ ATI® Radeon® HD 5450 or above	Direct 3D, Nvidia® GeForce® GT 220/ ATI® Radeon® HD 5450 or above	Direct 3D, Nvidia® GeForce® GT 220/ ATI® Radeon® HD 5450 or above
OS:	Microsoft Windows XP / Vista / 7	Microsoft Windows XP / Vista / 7	Microsoft Windows XP / Vista / 7	Microsoft Windows XP / Vista / 7	MS Windows XP / Vista / 7 or MS Windows 2008 R2 (64-bit edition)	MS Windows XP / Vista / 7 or MS Windows 2008 R2 (64-bit edition)

* Java - Oracle Java 6 or above, I.E: Windows Internet Explorer Version 6 or above   # For the siteMATRIX for sureSIGHT Pro. Multi-display graphic card is required. E.g) Nvidia® Quadro® NVS 450 or above

TeleEye Application Software

Single-site Monitoring

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

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

sureSIGHT Integrated Video Management Solution

sureSIGHT supports live video viewing from up to 64 TeleEye RX Video Recording Servers. Its modular design allows customers to scale up easily and add functional modules to suit specific requirements.

- Up to 64 live video from TeleEye RX Series
- Manage multi-site and cameras simultaneously
- Comprehensive event log
- Modular design and operation
- Operator account management system

sureGUARD Video Response Centre Solution

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

- 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

Mobile Video Monitoring

TeleEye Mobile Video Monitoring Solution gives you real time video viewing with your existing mobile phone.

- Video transmission: HSPA, 3G, EDGE, GPRS, WiFi...
- Alarm information
- Digital zoom and pan
- Telemetry control
- Support advanced security mode

3G • GPRS

TeleEye Group
Signal Communications Limited
Units 202-203, 2/F, Laford Centre, 838 Lai Chi Kok Road, Kowloon, Hong Kong
International: (852) 2995 5996   Hong Kong: (852) 2995 5992
Fax: (852) 2995 5901   Email: info@TeleEye.com   Web: www.TeleEye.com

TeleEye Europe Ltd.
Tel: (44) 1628 776061
Fax: (44) 1628 407399
Email: info@TeleEye.co.uk
Web: www.TeleEye.co.uk

TeleEye (S) Pte Ltd.
Tel: (65) 6745-3921
Fax: (65) 6742-1965
Email: sales@TeleEye.com.sg
Web: www.TeleEye.com.sg

TeleEye Hrvatska
Tel: (385) 52-383-102
Fax: (385) 52-383-101
Email: info@TeleEye.hr
Web: www.TeleEye.hr

TeleEye (South Africa) (Pty) Ltd
Tel: (27) 11 557 9200
Fax: (27) 11 706 3847
Email: info@TeleEye.co.za
Web: www.TeleEye.co.za

TeleEye Lanka (Pty) Ltd
Tel: (94) 11 2695652 4
Fax: 94) 11 269665 4
Email: info@TeleEye.com.lk
Web: www.TeleEye.com.lk

TeleEye Digital Technology (Shenzhen) Co., Ltd.
Tel: (86) 755-2671-2122
Fax: (86) 755-2671-2287
Email: info@TeleEye.com.cn
Wb: www.TeleEye.com.cn

TeleEye (Mauritius) Ltd.
Tel: (230) 686 5238
Fax: (230) 698 2179
Email: info@TeleEye.com.mu
Web: www.TeleEye.com.mu

TeleEye Philippines, Inc.
Tel: (63) 2-3650897
Fax: (63) 2-3651446
Email: contact@TeleEye.com.ph
Web: www.TeleEye.com.ph

Companhia TeleEye (Macau) Limitada
Tel: (853) 2857 5933
Fax: (853) 2857 5911
Email: info@TeleEye.com.mo
Web: www.TeleEye.com.mo

Reprint : 2011.12