TeleEye RX Series

Video Recording Server

RX364 / RX368_V2 / RX3616_V2 (Support SATA) RX324 / RX328 / RX3216

User Guide



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SECTION 1

1. Introduction

TeleEye RX Series Video Recording Server operates with its revolutionary multi-rate video coder to fulfill the highest video coding requirements for simultaneous transmission and recording. Seamless video transmission by **TeleEye RX** can be performed in low and medium bandwidth communication networks including ADSL, ISDN and PSTN; whilst DVD-quality videos can be transmitted through LAN and recorded into local hard drive with optimum speed at 100/120 fps at D1 resolution. Real time recording rate of up to 200/240fps on all video channels can also be achieved at CIF resolution.

TeleEye RX provides professional and real life security control of premises with its sophisticated event management scheme. It responses to a 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 performed. **TeleEye RX** can also keep a comprehensive log of the events for audit trail.

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 station.

With a built-in DVD-writer, video footage stored inside *Tele***Eye RX** can be easily extracted for evidential purposes. Recorded video can be backed up in CD/DVD and played back in any PC without any special software.

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2. Features

Hardware Feature

- Video recording with rate up to 100/120fps (RX364 / RX324), 200/240fps (RX368_V2 / RX328 / RX3616_V2 / RX3216)
- Remote and standalone operations
- Composite video output with OSD menu
- SMAC-M multi-rate video coding technology
- Real time video transmission
 - Up to 60fps (RX364 / RX324), 120fps (RX368_V2 / RX328 / RX3616_V2 / RX3216) over LAN for NTSC
 - Up to 50fps (RX364 / RX324), 100fps (RX368_V2 / RX328 / RX3616_V2 / RX3216) over LAN for PAL
- Excellent picture resolution
 - Up to 720 x 480 pixels for NTSC
 - Up to 720 x 576 pixels for PAL
- 4 (RX364 / RX324), 8 (RX368_V2 / RX328), 16 (RX3616_V2 / RX3216) video inputs with one video output
- 1 (RX364 / RX324), 2 (RX368_V2 / RX328 / RX3616_V2 / RX3216) audio inputs
- 1 Spot video output (RX368_V2 / RX328 / RX3616_V2 / RX3216)
- 1 audio output and 1 public addressing (P.A.)output
- 4 relay switches and 16 alarm inputs
- 4 additional detection inputs
- Removable hard disk (RX364 / RX368_V2 / RX3616_V2)
- Built-in DVD writer (RX364 / RX368_V2 / RX3616_V2)

Functional Feature

- *sure*LINK, support both static and dynamic IP
- Sophisticated event management
- System arm/disarm
- Flexible connections: LAN, ADSL, PSTN, ISDN, mobile network, etc.
- Triplex operation: simultaneous video monitoring, recording & playback
- Video motion detection
- Event-driven recording
- Pre- & post-event video recording
- Entry/exit zone configurable on all alarm inputs
- Auto alarm dialback
- Connection authentication
- Compatibility with popular telemetry protocols
- Single-site monitoring
- Web-based video monitoring
- Programmable video recording
- Data retention
- Mobile monitoring

3. Removing the Packages

After removing the package, make sure you have the following items:

- **TeleEye RX** Video Recording Server with Built-in DVD Writer
- Hard Disk Cartridge Accessories (Key x 2 and Screw x 4)
- User Guide
- Warranty Card
- Registration Code Sheet
- HDD Recommendation List
- Software CD
- Power Adaptor and Power Cord
- Alarm Port Connector (37 Pins) & Alarm Port Cover
- Resistors $(1.2k\Omega \times 20, 6k\Omega \times 20)$
- Straight-through Ethernet Cable

4. Convention Used in This Manual

- " " : Buttons on the *Tele*Eye RX video recording server front panel
- { } : Hardware Items on the *Tele*Eye RX video recording server besides buttons
- [] : OSD menu or MS Windows menu
-) : Refers to other section or page

5. Front Panel Description



Removable Hard Disk Cartridge

{Key Lock} and **{Key}** are provided to lock the hard disk from unauthorized removing and also be used to switch ON/OFF the system

Live Camera Control Buttons

For RX364 / RX324 (1-4), RX368_V2 / RX328 (1-8), RX3616_V2 / RX3216 (1-16) **"Camera Control"** fast switch to a specific camera for local monitoring

Built-in DVD Writer

It allows user to back up video to CD-R, CD-RW or DVD (Max size of 4700 MB)

Screen Mode Control

For RX364/ RX324	Full, Quad, 3 x 3, Hex screen mode:
	The system will display one, four, eight, sixteen
0 0 0	screens decided on the button pressed. Sequential
For RX368_V2 / RX328	mode will also be disabled.
	Sequential mode**: The sequential button enables the sequential page
For RX3616 V2 / RX3216	mode of live monitoring. In sequential mode,
	screen mode can be changed by pressing the
	sequential button again.
	**In FULL screen sequential mode, the camera
	sequence can be set on user's preference.
	(Main Menu Setup Video Local
	monitoring Sequential Cams)

Menu Control Buttons / Local Playback Control Buttons / PTZ Control



Summary of Control Button

Buttons	Menu Mode	Playback Mode	PTZ Mode
	Cursor Up	Pause	Tilt Up
	Cursor Down	Stop	Tilt Down
*•	Cursor Left	Rewind	Pan Left
	Cursor Right	Forward	Pan Right
Enter	Enter	Play	Zoom In
Back	Pervious Page	Back/Stop	Zoom Out

Mode Control Buttons and LED

\bigcirc	0	\bigcirc	\bigcirc	\bigcirc
0	0	0	0	0
Event	Rec	Live	Search	Menu

These 5 buttons are used for switching between the control modes

"Event" button	:	Pop up event menu
"Rec" button	:	Enable/disable normal or scheduled recording
"Live" button	:	View live video at any time and PTZ control in live mode
"Search" button	:	Playback log menu
"Menu" button	:	System settings and other system operations

Notification LEDs



There are 5 notification LEDs, 2 red colors and 3 blue colors from left to right.

{Event LED}	:	Blinks when event is triggered
{Recording LED}	:	Is ON when the video recording server is recording
{Live LED}	:	Is ON during live monitoring
{Search LED}	:	Is ON when the system is in playback mode
{Menu LED}	:	Is ON when the system is in menu mode
{Power LED}	:	Is ON continuously when the system is powered up

6. Rear Panel Description

RX364:









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RX324



RX328



RX3216



1. Video Output Connectors

- A composite video signal with 1V p-p is output from this connector
- PAL/CCIR format with 625 lines, 25 frames per second
- NTSC/EIA format with 525 lines, 30 frames per second

2. Video Input Connector

- {Standard BNC connectors} for video source input
- A composite video source from camera should be supplied to these connectors
- CH1 CH4 (RX364 / RX324)
- CH1 CH8 (RX368_V2 / RX328)
- CH1 CH16 (RX3616_V2 / RX3216)

3. Audio In/Out Port

- {Audio In}: Connect audio input device (e.g. microphone) with RCA jack to *Tele*Eye RX video recording server for recording. (Only 1 {Audio In} for RX364 / RX324)
- {Audio Out}: Connect audio output device (e.g. speaker) with RCA jack to *Tele*Eye **RX** video recording server and generate output audio signal
- {Audio PA} : Connect audio output device (e.g. speaker) to *Tele*Eye RX video recording server and generate audio signal to facilitate remote public addressing

4. Ethernet Socket (10/100 Base-T)

- This socket is used for connecting *Tele*Eye RX to the corporate computer network (e.g. LAN)
- This socket includes {COL LED} and {LINK LED}
- {COL LED}: When ON, indicates that collision is occurring on the network
- {LINK LED} : When ON, indicates that *Tele*Eye RX is connecting to the network and ready to function

5. USB

• For support firmware upgrade, setting import/export, USB modem and footage backup.

6. RS 232 (Modem) Port

• A {DB-9 Male Connector} of DTE format, capable for connecting to DCE such as modem, ISDN terminal adapter

Pin number	Definition	Direction
1	CD	Input
2	RXD	Input
3	TXD	Output
4	DTR	Output
5	GND	
6	DSR	Input
7	RTS	Output
8	CTS	Input
9		

7. RS 485 In/Out Port

- {In}: 2-way terminal block for connecting a keyboard controller to *Tele***Eye RX** video recording server in order to control a PTZ camera
 - {Out}: 2-way terminal block for connecting a PTZ camera

8. Relay Out / Alarm In Port

- 4 relay (also call switch) outputs
- 16 alarm inputs
- All alarm ports are NC/NO type and none/SEOL/DEOL tamper type input
- All relay ports are latching/push-button type output

9. Power

• Connect power supply (12V DC) to *Tele*Eye RX video recording server

10. Switch

• Switch on or off the *Tele*Eye RX video recording server

11. VGA output (Optional)

- Standard VGA connector
- RX368_V2 / RX328 / RX3616_V2 / RX3216 only

12. Spot Output

- A composite video signal with 1V p-p is output from this connector
- RX368_V2 / RX328 / RX3616_V2 / RX3216 only

Α.

SECTION 2

Hard Disk Installation, Formatting and Scanning Hard Disk Installation (for RX364 / RX368_V2 / RX3616_V2)

TeleEye RX video recording server supports SATA standard hard disk.

Hard Disk Front Panel Description



- 1. Key lock
- 2. Spring lock
- 3. LED indicator (for Power & Access)

Key Lock Description



A:Non-removable B:Removable

Spring Lock Description



Pull the hard drive spring lock to unload hard drive

Hard Disk Installation, Formatting and Scanning

Installation Procedure

RX MUST be shut down before installing / uninstalling hard disk

- 1. Press "Menu" button, select [SHUT DOWN] option and press "Enter" button.
- 2. [SHUT DOWN] menu will pop up and select [SHUT DOWN] option and press "Enter" Enter button.
- 3. Select **[YES]** and press "**Enter**" ^{Enter} button to confirm the shut down and wait for the message **[IT IS NOW SAFE TO TURN OFF]**.
- 4. Switch off RX.

7.

5. Insert the bundled key provided into the keyhole and turn the key clockwise (position B).

6. Pull the spring lock to open the front door.

Place the HDD into the cartridge with the hard drive label (printed) side up and be sure the HDD connector side is properly inserted into the cartridge.





8. Close the front door.



9. Insert the bundled key provided into the keyhole and turn the key anti-clockwise (position A).





10. Switch on RX.



B. Hard Disk Installation (for RX324 / RX328 / RX3216)





Hard Disk Installation, Formatting and Scanning

10.	Position the cover with <i>Tele</i> Eye RX and secure by using the screws.	
11.	To uninstall HDD, reverse the steps of 7, 8,9.	

C. Hard Disk Formatting

Formatting a hard disk will erase all data in the hard disk. When it is reconstructed, it is readable by *Tele*Eye **RX** video recording server.

Formatting will be used if the hard disk format is NOT *Tele*Eye **RX** video recording server recognized. Usually, it is a new hard disk, or a hard disk which has not been used by *Tele*Eye **RX** video recording server.

Procedure



Hard Disk Installation, Formatting and Scanning

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Manual Formatting

It will be used if user wants to format the hard disk so as to have a clean recording space and redeem the file allocation.



Select [DEVICE] in scan/format disk menu and press "Left" ^{*}O or "Right" ^{*} button to set [RX-SE1] option. Choose [FORMAT DISK] and select [YES]. The RX-SE1 will be formatted

Hard Disk Installation, Formatting and Scanning

D. Scan Disk

It is a hard disk maintenance function which is similar to Scan Disk function provided by the Operating System of your personal computer. *Tele*Eye RX video recording server provides this function in an attempt to rescue the hard disk when errors are found, and to enhance its performance and reliability.

Procedure

Press "Menu" ... button, select [SCAN/FORMAT 1. MAIN MENU DISK] option and press "Enter" United button to SETUP FOOTAGE BACKUP enter [SCAN/FORAMT DISK] sub menu. SWITCH CONTROL SCAN / FORMAT DISK . . . TRANSMITTER INFO LOCK KEYS **USER LOG-IN/OUT** SHUT DOWN **ENTER** There is information about the hard disk. If not, **SCAN / FORMAT DISK** DEVICE LOCAL please check that the hard disk is installed START TIME 22:35 20/06/06 END TIME MASTER MODEL NO properly. 10:07 15/11/06 XXX XXXX MASTER SERIAL NO Select [SCANDISK] option press "Enter" **MASTER CAPACITY** 400GB 2. SLAVE MODEL NO SLAVE SERIAL NO N/A button. **SLAVE CAPACITY DISK USAGE** 52% 7 SCAN DISK ENTER FORMAT DISK ENTER Select [YES] option and press "Enter" Unter button 3. to start the [SCANDISK] process. SCAN DISK ALL RECORDING WILL STOP **DURING SCANDISK** SURE TO PROCEED? YES NO

Note :

Select [DEVICE] in main menu and press "Left" ^{*}O or "Right" ^{*} button to set [RX-SE1] option. Choose [SCAN DISK] and select [YES]. The RX-SE1 will be scanned.

Hard Disk Installation, Formatting and Scanning

SECTION 3

Basic Installation for Local and Remote Monitoring

A. TeleEye RX Setup for Local CCTV Monitor

Connection Topology



*Note: **SPOT OUT** only for RX368_V2 / RX328 / RX3616_V2 / RX3216 **Equipment**

- *Tele*Eye RX Video recording server
- Cameras
- Video Cables (RG-59) with BNC Header
- CCTV Monitor

 \frown

Setup Procedure

1. Connect cameras to *Tele*Eye RX {Video Input} with RG59 cable and BNC connector.

Note: The camera system is either NTSC or PAL and all cameras must have the SAME system format.

- 2. Connect CCTV monitor to *Tele*Eye RX {Video Output} with RG59 cable and BNC connector.
- 3. Install and use the bundled key to lock the **{Hard Disk Rack}** with hard disk to the *Tele*Eye RX.

Note: If there is no hard disk installed, Recording and Playback are not functional

- 4. Plug in the power adapter (12V DC) to *Tele*Eye RX.
- 5. Turn on the power of *Tele*Eye RX, camera and monitor. Check the {Power LED} which is lit up in blue color continuously at *Tele*Eye RX front panel after power on. After several seconds, live video appears on the CCTV monitor as follows:



Note: Please go through the following steps (6-10) if CCTV monitor does not show video clearly

6. Press the "Menu" Debutton to pop up the [MAIN MENU] on OSD.

7. Use "Up" or "Down" \rightarrow button to select

8. Use "**Up**" or **Down**" button to select

enter the [VIDEO] sub-menu.

[VIDEO] option and press "Enter" button to

[SETUP] option and press "Enter" button to enter the [SETUP] sub-menu.

MAIN MENU	
SETUP	
FOOTAGE BACKUP	
SWITCH CONTROL	
SCAN / FORMAT DISK	
TRANSMITTER INFO	
LOCK KEYS	
USER LOG-IN/OUT	
SHUT DOWN	ENTER

~	
SETUP MENU	
♥ VIDEO RECORDING SWITCHES DATE / TIME CONNECTION EVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT RX-SE SETTING IMPORT/EXPORT	· · · · · · · · · · · · · · · · · · ·
RESTORE FACTORY SETTING	ENTER

- 9. Select [VIDEO FORMAT] and press "Left"
 Or "Right" button to set either [NTSC] or [PAL] option. (All cameras should have the same video format).
- 10. You can always press "Live" button to exit any menu operation and start live monitoring.

VIDEO	
CAMERA SETTING	
LOCAL MONITORING	
BRIGHTNESS	
CONTRAST	
COLOR	
OSD COLOR	BLUE
VIDEO FORMAT	PAL

B. TeleEye RX Setup for VGA Monitor

Connection Topology



*Note: **VGA OUTPUT** only for RX368_V2 / RX328 / RX3616_V2 / RX3216 with optional VGA module installed .

Equipment

- *Tele*Eye RX Video Recording Server
- Cameras
- VGA cable
- VGA Monitor (support 1024x768 / 1280x1024 / 60Hz / 75Hz)

Setup Procedure

1. Connect cameras to *Tele*Eye RX {Video Input} with RG59 cable and BNC connector.

Note: The camera system is either NTSC or PAL and all cameras must have the SAME system format.

- 2. Connect VGA monitor to *Tele*Eye RX {VGA Output} with VGA Cable.
- 3. Install and use the bundled key to lock the {Hard Disk Rack} with hard disk to the *Tele*Eye RX.

Note: If there is no hard disk installed, Recording and Playback are not functional

- 4. Plug in the power adapter (12V DC) to *Tele*Eye RX.
- 5. Turn on the power of *Tele*Eye RX, camera and monitor. Check the {Power LED} which is lit up in blue color continuously at *Tele*Eye RX front panel after power on. After several seconds, live video appears on the VGA monitor as follows:



Note: If video does not shown on VGA monitor correctly, please check the VGA monitor support RX default VGA setting (1024x768 resolution, 60Hz). If VGA monitoring does not support default VGA setting, please use WX-30 reception software to select proper settings after setup network connection.

6.

- Press the "Menu" button to pop up the [MAIN MENU] on OSD.
- 7. Use "Up" or "Down" + button to select

[SETUP] option and press "Enter" Enter button to enter the [SETUP] sub-menu.

8. Use "**Up**" or **Down**" button to select

[VIDEO] option and press "Enter" Enter button to enter the [VIDEO] sub-menu.

- 9. Select [VIDEO FORMAT] and press "Left"
 Or "Right" button to set either [NTSC] or [PAL] option. (All cameras should have the same video format).
- 10. Select [VGA SETTING] and press "Enter" button to enter [VGA SETTING] menu.
- 11. Select [**RESOLUTION**] and press "Left" ^{*}[●] or "**Right**" [●]^{*} button to set VGA resolution according to the VGA monitoring
- 12. Select [FREQUENCY] and press "Left" ^{*} or "Right" ^{*} button to set VGA frequency according to the VGA monitoring
- 13. You can always press "Live" ⁹ button to exit any menu operation and start live monitoring.



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Connection Topology



Network switch

Equipment

- **TeleEye RX** Video recording server
- Network Switch
- Straight-through Ethernet Cable (bundled)
- Cross-over Ethernet Cable
- Cameras
- Video Cables (RG-59) with BNC Header
- CCTV Monitor
- CD ROM with WX-30 Software (bundled) (for PC operation only)
- PC

PC Requirements

- **CPU** : Pentium IV 2.4 GHz or above
- **RAM** : 512 MB or above
- **Display** : 1024 x 768, true color or better
- OS : MS Windows 2000, XP
- HDD : 1GB of free disk space or above

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Setup Procedure

1. Connect cameras to *Tele*Eye RX {Video Input} with RG59 cable and BNC connector.

Note: The cameras system is either **NTSC** or **PAL** and all cameras must have the SAME system format.

- 2. Connect CCTV monitor to *Tele*Eye RX {Video Output} with RG59 cable and BNC connector.
- 3. Install and use the bundled key to lock the **{Hard Disk Rack}** with hard disk to the *Tele*Eye RX.

Note: If there is no hard disk installed, Recording and Playback are not functional

- 4. Connect the power adapter (12V DC) to the *Tele*Eye RX.
- 5. Turn on the power of *Tele*Eye RX, camera and monitor. Check the {Power LED} which is lit up in blue color continuously at *Tele*Eye RX front panel after power on. After several seconds, live video appears on the CCTV monitor as follows:



Note: Please go through the following steps (6-10) if the video of CCTV monitor does not show clearly.

6. Press the "Menu" button to pop up the [MAIN MENU] on OSD.

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- 7. Use "Up" or "Down" we button to select [SETUP] option and press "Enter" button to enter the [SETUP] sub-menu.
- 8. Select [**VIDEO**] option and press "Enter" Enter button to enter the [**VIDEO**] sub-menu
- 9. Select [VIDEO FORMAT] and press "Left" ^{*}
 or "Right" ^{*}
 button to set either [NTSC] or [PAL] option. (All cameras should have the same video format).
- 10. You can always press "Live" ² button to exit any menu operation and start live monitoring.
- 11. Configure *Tele*Eye RX video recording server IP setting

Setup *Tele*Eye RX video recording server IP through CCTV monitor, please go to step 11a. Setup *Tele*Eye RX video recording server IP through PC, please go to step 11b.

11.a.1 Configure *Tele*Eye RX video recording server IP setting through CCTV Monitor



SETUP MENU	
♥ VIDEO RECORDING SWITCHES DATE / TIME CONNECTION EVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT RX-SE SETTING IMPORT / EXPORT RESTORE FACTORY SETTING	 ENTER

VIDEO	
CAMERA SETTING	
SPOT VIDEO VGA SETTING	
OSD COLOR	BLUE
VIDEO FORMAT	PAL

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- 11.a.2 Press the "**Menu**" button such that the OSD main menu opens on the monitor.
- 11.a.3 Use "Up" or "Down" button to select

[SETUP] option and press "Enter" Enter button to enter [SETUP] sub menu.

- 11.a.4 Select [CONNECTION] option and press "Enter" Enter button to enter connection setting menu.
- SETUP MENU VIDEO RECORDING SWITCHES DATE / TIME F CONNECTION ... EVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT RX-SE SETTING IMPORT / EXPORT RESTORE FACTORY SETTING ENTER
- 11.a.5 Select [**TCP/IP**] option and press "**Enter**" Enter button
- 11.a.6 Select **[IP]** option and press "Enter" Enter button. IP address consists of four fields. Each field can assign a number from **0** to **255**

- 11.a.7 Use "Left" ^{*} or "Right" ^{*} button to select field and use "Up" ^{*} or "Down" ^{*} button to set number.
- 11.a.8 Press "Enter" button to save the change and return previous menu.



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11.a.9 Follow the network setting and assign a valid subnet mask to [SUBNET MASK] and select [ENABLE GATEWAY] option and input [GATEWAY] option in similar way.

Note: The DNS setting is optional which is useful for *sureLINK*, time synchronization and e-mail notification.

- 11.a.10 Press "Live" button, then [SETTING MODIFIED] message board will pop up. Press "Enter" button to restart the *Tele*Eye RX.
- 11.b Configure *Tele*Eye RX video recording server IP setting through PC





ОК

- 11.b.1. In Windows 2000/XP desktop, select Start > **Control Panel**
- 11.b.2. Double click Network and Dial-up Connections > right click Local Area Connections and choose **Properties**.
- 11.b.3. Choose Internet Protocol (TCP/IP) and click **Properties**

11.b.4. Enter an **IP address, subnet mask** and **Default** gateway. Note that IP address should be "192.168.0.xx" except "192.168.0.2" which is TeleEye RX default IP address.

- 11.b.5. Enter the **Preferred** and **Alternate DNS server**, if necessary.
- 11.b.6. Click **OK** to activate the new IP.

You have to confirm that IP address has been correctly set on your computer. On your windows, click **start > run**, type "**cmd**" at open field, press **OK** button, type "ipconfig" on the DOS prompt and you will see an IP set on your computer.

11.b.7. Connect the PC Ethernet socket to the video recording server Ethernet socket at rear panel of the video recording server with cross-over Ethernet cable. Check if the {LINK LED} of the video recording server is ON.

Your Ethernet card name ? 🕹 Local Area Connection Properties General Authentication Advanced Connect using: Broadcom 440x 10/100 Integrated Controller Configure. This connection uses the following items: 🗹 🔜 Elient for Microsoft Networks File and Printer Sharing for Microsoft Networks Internet Protocol (TCP/IP) Install Uninstall Properties Description Transmission Control Protocol/Internet Protocol, The default wide area network protocol that provides communication across diverse interconnected networks. Show icon in notification area when connected

OK.

Cancel

~



11.b.8. Run WX-30 software which has been installed to the PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)



11.b.9. Choose [Transmitter] → [Registration] to register the *Tele*Eye RX video recording server. User needs to input video recording server serial number and registration code. For example :
 Serial No. : VTC12345
 Registration Code : 1234567890



11.b.10.Press [Connect] icon to pop up the [Connect Window]. Type and select the following setting : Phone/IP : 192.168.0.2
Connect Using: TCP/IP LAN Password: 000000
IP (192.168.0.2) and Password (000000) are default setting of *Tele*Eye RX
If RX is set to advanced security mode, check Advanced security mode box and enter User Name



11.b.11.Press [Connect] icon to connect your PC to the video recording server. Live video is shown on the WX-30 if success. Otherwise, the [Warning] board will pop up and show you failure message. For failure case, please press

[Connect] icon to check that the connection setting is valid or not.



Page 30

- 11.b.12.Press [Transmitter Setup] icon to show *Tele*Eye RX configuration menu.
- 11.b.13.Select [Connection] and press [Network Settings] * Network Settings icon to configure network setting.

- 11.b.14. Change the IP from 192.168.0.2 to
 210.17.139.145 (for example). Gateway setting is used for WAN. Primary and Secondary DNS setting are used for *sureLINK*, time synchronization or e-mail notification function.
- 11.b.15.Press [**Apply**] icon to save the network setting and the message board will pop up. After several seconds, the video recording server will restart automatically.

	17	
	Enable DNS	
	Primary DNS:	
	Secondary DNS:	
	\square	
rk	Setup	×
r	Transmitter Setting Saved.	
	\Box	

210.17_.139.145

255.255.255.0

210.17_.139.1_

General Settings

IP:

Gateway

Subnet Mask:



Port: 1024
- 11.b.16.In Windows 2000/XP desktop, select **Start** > **Control Panel**
- 11.b.17.Double click Network and Dial-up Connections
 > right click Local Area Connections and choose Properties.
- 11.b.18.Choose Internet Protocol (TCP/IP) and click Properties
- 11.b.19.Enter the **IP address, subnet mask** and **Default** gateway for the PC to restore to its original network configuration.

Note: The first 3 field of IP address should be same as **TeleEye RX** video recording server IP and gateway address. IP address is "210.17.139.146" and gateway address is "210.17.139.1" in this example.

- 11.b.20.Click OK to apply the settings
- 12. Disconnect the *Tele*Eye RX video recording server and current PC. Reconnect the video recording server and current PC to the LAN network through straight-through Ethernet cable.
- 13. Check Ethernet socket of both *Tele*Eye RX video recording server and PC to ensure the {GREEN LINK LED} turns ON. Then connection diagram is shown as below:



Network switch

	ed automatically if your network supports leed to ask your network administrator for
◯ <u>O</u> btain an IP address auto	matically
Use the following IP addre	
<u>I</u> P address:	210 . 17 . 139 . 146
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	210 . 17 . 139 . 1
Obtain DNS server addres	ss automatically
Use the following DNS set	rver addresses:
Preferred DNS server:	
Alternate DNS server:	[

14. Run **WX-30** software at any local network PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)

- 15. Press [Connect] icon to pop up the [Connect Window]. For example, type and select the following setting :
 Phone/IP : 210.17.139.153
 Connect Using: TCP/IP LAN
 Password: 000000
 If RX is set to advanced security mode, check
 Advanced security mode box and enter User Name
- 16. Press [Connect] Connect icon to connect your PC and the video recording server. The video appears on the WX-30 if success. Otherwise, the [Warning] board will pop up and failure message will be shown. For failure case, please press [Connect] icon to check that the connection setting is valid or not.







×

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Serial Number

Advanced security mode

Dialing Prefix:

D. *Tele*Eye RX Setup for Broadband or Narrowband Internet Connection with Static IP

Connection Topology



Remark for Internet Connection Definition

Broadband : Connection speed is equals to 128kbps or above, e.g. ADSL, DSL. Narrowband : Connection speed is below 128kbps, e.g. dial up network, GPRS

Equipment

- TeleEye RX Video recording server
- Network Switch, Router/Gateway
- Straight-through Ethernet Cable (bundled)
- Cross-over Ethernet Cable
- Cameras, Video Cables (RG-59) with BNC Header
- CCTV Monitor
- CD ROM with WX-30 Software (bundled) (for PC operation only)
- PC

PC Requirements

- **CPU** : Pentium IV 2.4 GHz or above
- **RAM** : 512 MB or above
- **Display** : 1024x768, true color or better
- OS : MS Windows 2000, XP
- HDD : 1 GB of free disk space or above

Basic Installation for Local and Remote Monitoring

0

Setup Procedure

1. Connect cameras to *Tele*Eye RX {Video Input} with RG59 cable and BNC connector.

Note: The camera system is either NTSC or PAL and all cameras must have the SAME system format.

- 2. Connect CCTV monitor to *Tele*Eye RX {Video Output} with RG59 cable and BNC connector.
- 3. Install and use the bundled key to lock the {Hard Disk Rack} with hard disk to the *Tele*Eye **RX**.

Note: If there is no hard disk installed, Recording and Playback are not functional.

- 4. Connect the power adapter (12V DC) to the *Tele*Eye RX.
- 5. Turn on the power of *Tele*Eye RX, camera and monitor. Check the {Power LED}⁽⁾, which is lit up in blue color continuously at *Tele*Eye RX front panel after power on. After several seconds, live video appears on the CCTV monitor as follows:



Note: Please go through the following steps (6-10) if the video of CCTV monitor does not show clearly.

6.

LOCAL MONITORING

SPOT VIDEO **VGA SETTING**

OSD COLOR

VIDEO FORMAT

7

- or "**Right**" button to set either [NTSC] or [PAL] option. (All cameras should have the same video format).
- 10. You can always press "Live" ⁹ button to exit any menu operation and start live monitoring.

Setup *Tele*Eye RX video recording server IP through CCTV monitor, please go to step 11a. Setup *Tele*Eye RX video recording server IP through PC, please go to step 11b.

11.a Configure *Tele*Eye RX video recording server IP setting through CCTV Monitor



BI UF

PAL

OK

. . .

SETUP MENU 11.a.1 Press the "Menu" . button such that the OSD VIDEO main menu pops up on the monitor. RECORDING II 🕇 SWITCHES 11.a.2 Use "Up" or "Down" button to select DATE / TIME CONNECTION EVENT HANDLER TRANSMITTER [SETUP] option and press "Enter" Enter button. 11.a.3 Select [CONNECTION] option and press PASSWORD USER ACCOUNT "Enter" Enter button **RX-SE SETTING IMPORT/EXPORT RESTORE FACTORY SETTING ENTER** 11.a.4 Select [TCP/IP] option and press "Enter" Enter button CONNECTION TCP / IP MODEM THROUGHPUT 11.a.5 Select [IP] option and press "Enter" Enter button. IP address consists of four fields. Each field can assign a number from 0 to 255. TCP / IP 🗗 IP 192.168.0.2 PORT 1024 SUBNET MASK 255.255.0 ENABLE GATEWAY NO GATEWAY 0.0.0.0 **ENABLE DNS** NO PRIMARY DNS 0.0.0.0 11.a.6 Use "Left" **C** or "Right" **S** button to select SECONDARY DNS 0.0.0.0 SURELINK field and use "Up" or "Down" v button to set number. IP 11.a.7 Press "Enter" Enter button to save the change and return previous menu. IP: 210. 17.139.145 11.a.8 Follow the network setting and assign valid subnet mask to [SUBNET MASK] and select [ENABLE GATEWAY] option and input TCP / IP [GATEWAY] option in similar way. IP 210.17.139.145 PORT 1024 SUBNET MASK ENABLE GATEWAY 255.255.255.0 11.a.9 Set the Gateway value (for example) to YES **GATEWAY** 210.17.139.1 210.17.139.1 ENABLE DNS NO Note: The DNS setting is optional which is useful **PRIMARY DNS** 0.0.0.0 SECONDARY DNS 0.0.0.0 for **sureLINK**, time synchronization or e-mail SURELINK notification function. 11.a.10Press "Live" ² button and [SETTING MODIFIED] message board will pop up. SETTING MODIFIED SETTING WILL TAKE EFFECT 11.b Configure *Tele*Eye RX video recording server IP AFTER RESTART setting through PC PRESS ENTER TO CONTINUE

Basic Installation for Local and Remote Monitoring



- 11.b.1. In Windows 2000/XP desktop, select Start > Control Panel
- 11.b.2. Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.
- 11.b.3. Choose Internet Protocol (TCP/IP) and click Properties

Your Ethernet card \ name

eneral		· · · · · · · · · · · · · · · · · · ·				
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Connec	t using:	4				
B B	roadcom 440	la 10/100	Integrated I	Controller	r	
·				ſ	Configure	e
This cor	nnection uses	s the follow	ing items:	6		
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ineral ou can g nis capal ne appro Obta Obta Subnel Defaul Obta Obta Preferr	get IP settings bility. Otherwiss priate IP settin ain an IP addre the following I ress: t mask: t gateway: ain DNS server the following I ed DNS server	assigned a , you need gs. P address: r address ar DNS server r.	utomatically ically 192. 255. 192. utomatically	168 . 0 255 . 25	administrate	

- 11.b.4. Enter an IP address, subnet mask and Default gateway. Note that IP address should be "192.168.0.xx" except "192.168.0.2" which is *Tele*Eye RX default IP address.
- 11.b.5. Enter the Preferred and Alternate DNS server, if necessary.
- 11.b.6. Click **OK** to activate the new IP.

Note: You have to confirm that IP address has been correctly set on your computer. On your windows, click **start** > **run**, type "cmd" at Open field and press **OK** button, then type "**ipconfig**" on the DOS prompt, you will see an IP set on your computer.

- 11.b.7. Connect the PC Ethernet socket to the video recording server Ethernet socket at rear panel of the video recording server with **cross-over** Ethernet cable. Check if the {**LINK LED**} of the video recording server is **ON**.
- 11.b.8. Run WX-30 software which has been installed to the PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)



BASE-T

10/100



 RX video recording server. video recording server serial on code. 	<u>S</u> erial No.: Registratic		Cancel
mection : : 192.168.0.2 : TCP/IP Broadband : 000000 mnection : : 192.168.0.2 : TCP/IP Narrowband : 000000	Details <u>B</u> ef. Code: <u>L</u> ocation: <u>P</u> hone / IP: <u>C</u> onnect Using: User Name: Pass <u>w</u> ord:	D01 RX 192.168.0.2 TCP/IP Broadband	Serial Number:

Basic Installation for Local and Remote Monitoring

- 11.b.11.Press [Connect] icon to connect your PC and the video recording server. The video appears on the WX-30 if success. Otherwise, the [Warning] board will pop up and show you failure message. For failure case, please press [Connect] icon to check that the connection setting is valid or not.
- 11.b.12.Press [Transmitter setup] icon to show **TeleEye RX** configuration menu.
- 11.b.13.Select
 [Connection] and press
 [Network

 Settings]
 ** Network Settings
 icon to configure network setting.
- RX Video Input Bate/Time HDD Management

Recording B Switches Event

11.b.14.Change the IP from 192.168.0.2 to (for example) 210.17.139.145 and Gateway setting 210.17.139.1 (for example). Primary and Secondary DNS setting (for example) are used for **sureLINK**, time synchronization** or e-mail notification function **.



11.b.15.Press [Apply] ______ icon to save the network setting and the message board will pop up. After several seconds, the video recording server will restart automatically.

- 11.b.16.In Windows 2000/XP desktop, select **Start** > **Control Panel**
- 11.b.17.Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.
- 11.b.18.Choose Internet Protocol (TCP/IP) and click Properties
- 11.b.19.Enter the IP address, subnet mask and Default gateway for the PC to restore to its original network configuration.
- 11.b.20.Click OK to apply the setting

	d automatically if your network supports ed to ask your network administrator for
○ Obtain an IP address autor	paticallu
Use the following IP address	
IP address:	211 . 134 . 139 . 7
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	211 . 134 . 139 . 56
Obtain DNS server address	: automatically
Use the following DNS served in the serve of the serve of the served in the serve of the served in the serve of the served in	
Preferred DNS server:	202 . 14 . 67 . 4
Alternate DNS server:	203.80.96.9
<u>A</u> lternate DNS server:	203 . 80 . 96 . 9

- 12. Disconnect the video recording server and current PC. Reconnect the video recording server and current PC to the Internet network through **straight-through Ethernet cable**.
- 13. Check Ethernet socket of both the video recording server and PC to ensure that the {**GREEN LINK LED**} turns ON. Then connection diagram is shown as follows:





- 14. Configure the network setting for *Tele*Eye RX video recording server and your PC if necessary, such as router/gateway port mapping (select router/gateway IP as IP provided by your ISP and the video recording server IP as IP provided by the router/gateway), firewall, etc. (Please refer to the manual of your router/gateway.)
- 15. Run **WX-30** software at any network PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)
- 16. Press [Connect] icon to pop up the [Connect Window]. For example, type and select the following setting : **Broadband Connection :** : 210.17.139.145 Phone/IP **Connect Using** : TCP/IP Broadband Password : 000000 OR **Narrowband Connection : Phone/IP** : 210.17.139.145 **Connect Using** : TCP/IP Narrowband Password : 000000 If RX is set to advanced security mode, check Advanced security mode box and enter User Name
- 17. Press [Connect] Connect icon to connect your PC and the video recording server. The video appears on the WX-30 if success. Otherwise, the [Warning] board will pop up and the failure message will be shown. For failure case, please press [Connect] icon to check that the connection setting is valid or not.







E. *Tele*Eye RX Setup for Broadband or Narrowband Internet Connection with Dynamic IP

Connection Topology



Remark for Internet Connection Definition

Broadband : Connection speed equals to 128kbps or above, e.g. ADSL, DSL. Narrowband : Connection speed is below 128kbps, e.g. dial up network, GPRS

Equipment

- *Tele*Eye RX Video recording server
- Network Switch, Router/Gateway, ADSL Modem
- Straight-through Ethernet Cable (bundled), Cross-over Ethernet Cable
- Cameras, Video Cables (RG-59) with BNC Header, Monitor
- CD ROM with WX-30 Software (bundled) (for PC operation only)
- CCTV Monitor
- PC

PC Requirements

- **CPU** : Pentium IV 2.4 GHz or above
- **RAM** : 512 MB or above
- **Display** : 1024 x 768, true color or better
- HDD : 1 GB of free disk space or above
- OS : MS Windows 2000, XP

Setup Procedure

1. Connect cameras to *Tele*Eye RX {Video Input} with RG59 cable and BNC connector.

Note: The camera system is either NTSC or PAL and all cameras must have the SAME system format.

- 2. Connect CCTV monitor to *Tele*Eye **RX** {Video Output} with RG59 cable and BNC connector.
- 3. Install and use the bundled key to lock the {Hard Disk Rack} with Hard disk to the *Tele*Eye RX.

Note: If there is no hard disk installed, Recording and Playback are not functional.

- 4. Connect the power adapter (12V DC) to the *Tele*Eye RX.
- 5. Turn on the power of *Tele*Eye RX, camera and monitor. Check the {Power LED}⁽⁾, which is lit up in blue color continuously at *Tele*Eye RX front panel after power on. After several seconds, live video appears on the CCTV monitor as follows:



Note: Please go through the following steps (6-10) if the video of CCTV monitor does not show clearly.

- 0
- 6. Press the "Menu" button to pop up the [MAIN MENU] on OSD.
- 7. Use "**Up**" or "**Down**" v button to select

[SETUP] option and press "Enter" Enter button to enter the [SETUP] sub-menu.

- 8. Select [VIDEO] option and press "Enter" Enter button
- Select [VIDEO FORMAT] and press "Left" Control or "Right" Control button to set either [NTSC] or [PAL] option. (All cameras should have the same video format).
- 10. You can always press "Live" . button to exit any menu operation and start live monitoring.

SETUP MENU	
▼ VIDEO RECORDING SWITCHES DATE / TIME CONNECTION EVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT RX-SE SETTING IMPORT/EXPORT RESTORE FACTORY SETTING	· · · · · · · · · · · · · · · · · · ·
Ţ	

VIDEO	
CAMERA SETTING LOCAL MONITORING SPOT VIDEO VGA SETTING OSD COLOR I7 VIDEO FORMAT	 BLUE PAL

Setup *Tele*Eye RX video recording server IP through CCTV monitor, please go to step 11a.

Setup *Tele*Eye RX video recording server IP through PC, please go to step 11b.

11.a Configure TeleEye RX video recording server IP setting through CCTV Monitor



- 11.a.1 Press the "Menu" . button such that the OSD main menu pops up on the monitor.
- 11.a.2 Use "**Up**" or "**Down**" button to select [SETUP] option and press "Enter" Enter button.
- 11.a.3 Select [CONNECTION] option and press "Enter" Enter button

SETUP MENU	
VIDEO RECORDING SWITCHES DATE / TIME CONNECTION EVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT RX-SE SETTING IMPORT/EXPORT RESTORE FACTORY SETTING	···· ··· ··· ENTER
\square	

Basic Installation for Local and Remote Monitoring

*Tele*Eye **RX** User Guide

- 11.a.4 Select [**TCP/IP**] option and press "Enter" Ent button
- 11.a.5 Select [IP] option and press "Enter" button.
 IP address consists of four fields. Each field can assign a number from 0 to 255.
- 11.a.6 Use "Left" [♣] or "Right" [▶] button to select field and use "Up" [■] or "Down" [■] button to set number. Set IP address (for example) to 210.17.139.5
- 11.a.7 Press "Enter" Enter button to save the change and return to previous menu.
- 11.a.8 Follow the network setting and assign valid subnet mask to [SUBNET MASK] and select [ENABLE GATEWAY] option and input [GATEWAY] option in similar way. Assign the Gateway (for example) to 210.17.139.1
- 11.a.9 Select [ENABLE DNS] option Use "Left" ^{*}⊂ or "Right" ^{*}→ button to select [YES] to enable DNS.
- 11.a.10 Assign the Primary DNS (for example) to 202.14.67.4
- 11.a.11 Assign the Secondary DNS (for example) to 202.14.67.14
- 11.a.12 Select **[SURELINK]** option from TCP/IP menu and press "**Enter**" button to enter the sub menu.
- 11.a.13 Select [ENABLED] option and press "Left" ^{*}O or "Right" ^{*} button to set [YES] value



P
210.17.139.5
1024
255.255.255.0
YES
210.17.139.1
NO
0.0.0.0
0.0.0.0





TCP / IP

Ethernet Socket

Basic Installation for Local and Remote Monitoring

11.a.14 Select [SURELINK ADDRESS] option and press "Enter" Enter button to sureLINK editing menu.

> There are two fields for assigning sureLINK address "www.your_site.your_company.teleeye.net"

- 11.a.15 Use "Up" or "Down" or "Left" or "Right" button to select values and use "Enter" button to assign value.
- 11.a.16 [BACK] \rightarrow back to previous value or field
- 11.a.17 **[NEXT]** \rightarrow next to field
- 11.a.18 [CLEAR] \rightarrow clear field
- 11.a.19 [END] \rightarrow finish to assign **sureLINK** address and exit the editing menu.
- 11.a.20 Press "Live" . button and [SETTING MODIFIED] message board will pop up. Press "Enter" button to restart the video recording server.
- 11b Configure *Tele*Eye RX video recording server IP setting through PC



		SI	JRE	LINK	(AD	DRE	SS			
0 A K U CL	1 B L V EAF	MW	D N X	0	5 F P Z	6 G Q B/	7 H R ACK		9 J T XT	
www	۷			•			TEL	EEY	'E.NE	T

SETTING MODIFIED SETTING WILL TAKE EFFECT

AFTER RESTART. PRESS ENTER TO CONTINUE

- 11.b.1. In Windows 2000/XP desktop, select **Start** > **Control Panel**
- 11.b.2. Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.
- 11.b.3. Choose Internet Protocol (TCP/IP) and click Properties

Your Ethernet card \ name



11.b.4. Enter an IP address, subnet mask and Default gateway.

Note: IP address should be "192.168.0.xx" except "192.168.0.2" which is **TeleEye RX** default IP address.

- 11.b.5. Enter the Preferred and Alternate DNS server, if necessary.
- 11.b.6. Click **OK** to activate the new IP.

You have to confirm that IP address has been correctly set on your computer. On your windows, click **start** > **run**, type "**cmd**" at Open field and press **OK** button, then type "**ipconfig**" on the DOS prompt, you will see an IP set on your computer.

11.b.7. Connect the PC Ethernet socket to the video recording server Ethernet socket at rear panel of the video recording server with **cross-over** Ethernet cable. Check if the {**LINK LED**} of the video recording server is **ON**.

	automatically if your network supports ad to ask your network administrator for
🔘 Obtain an IP address autom	atically
Subsethe following IP address	ε
IP address:	192.168.0.3
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server address	
Preferred DNS server:	
Alternate DNS server:	· · · ·



11.b.8. Run WX-30 software which has been installed to the PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)

 11.b.9. Choose [Transmitter] → [Registration] to register the *Tele*Eye RX video recording server. User needs to input video recording server serial number and registration code. For example :
 Serial No. : VTC12345 Registration Code : 1234567890



ransmission Unit Reg	VTC12345	
<u>S</u> erial No.:	V1C12345	
Registration <u>C</u> ode:	1234567890	
		14
egistered Transmissio	n Unit	
		þ

11.b.10.Press [Connect] icon to pop up the [Connect Window]. Type and select the following setting : **Broadband Connection : Phone/IP** : 192.168.0.2 **Connect Using** : TCP/IP Broadband Password :000000 OR **Narrowband Connection :** Phone/IP : 192.168.0.2 **Connect Using** : TCP/IP Narrowband Password :000000 **IP** (192.168.0.2) and **Password** (000000) are default setting of *Tele*Eye RX If RX is set to advanced security mode, check Advanced security mode box and enter User Name

<u>R</u> ef. Code:	001	Serial Number:
Location:	RX	
<u>P</u> hone / IP:	192.168.0.2	
<u>C</u> onnect Using:	TCP/IP Broadband	
User Name:		Advanced security mode
Pass <u>w</u> ord:	*****	Dialing Prefix:



11.b.15.Press [Apply] Apply icon to save the network setting and pop up the message board. After several seconds, the video recording server will restart automatically.

Setup X Transmitter Setting Saved.

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

211.134.139.7

255 . 255 . 255 . 0 211 . 134 . 139 . 56

202 . 14 . 67 . 4

203 . 80 . 96 . 9

Advanced...

OK Cancel

Obtain an IP address automatically

🗇 Obtain DNS server address automatically

O Use the following DNS server addresses:

O Use the following IP address:

IP address:

Subnet mask:

Default gateway:

Preferred DNS server:

Alternate DNS server:

- 11.b.16.In Windows 2000/XP desktop, select **Start** > **Control Panel**
- 11.b.17.Double click Network and Dial-up Connections > right click Local Area Connections and choose Properties.
- 11.b.18.Choose Internet Protocol (TCP/IP) and click Properties
- 11.b.19.Enter the **IP** address, subnet mask and Default gateway for the PC to restore to its original network configuration.
- 11.b.20.Click **OK** to apply the setting
 - 12. Disconnect the video recording server and current PC. Reconnect the video recording server and current PC to the Internet network through **straight-through Ethernet cable**.

General

13. Check Ethernet socket of both the video recording server and PC to ensure that the {GREEN LINK LED} turns ON. Then connection diagram is shown as follows:



- 14. Configure the network setting for *Tele*Eye RX video recording server and your PC if necessary, such as router/gateway port mapping (select router/gateway IP as IP provided by your ISP and the video recording server IP as IP provided by the router/gateway), firewall, etc. (Please refers to the manual of your router/gateway.)
- 15. Run **WX-30** software at any network PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)



Broadband Connection : Phone/IP : www.your_site.your_company.TeleEye.net Connect Using : TCP/IP Broadband Password : 000000 OR Narrowband Connection : Phone/IP : www.your_site.your_company.TeleEye.net Connect Using : TCP/IP Narrowband Password : 000000

If RX is set to advanced security mode, check **Advanced security mode** box and enter **User Name**

17. Press [Connect] icon to connect your PC and the video recording server. The video appears on the WX-30 if success. Otherwise, the [Warning] board will pop up and the failure message will be shown. For failure case, please

press [Connect] icon to check that the connection setting is valid or not.



TCP/IP Broadband

Connect Using

User Name:

Password:



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Advanced security mode

Dialing Prefix:

F. *Tele*Eye RX Setup for Modem Connection

Connection Topology



Equipment

- TeleEye RX Video recording server
- ISDN/PSTN Modem
- RS232 Serial Cable
- Telephone Cable
- Cameras
- Video Cables (RG-59) with BNC Header
- CCTV Monitor
- CD ROM with WX-30 Software (bundled) (for PC operation only)
- PC

PC Requirements

- **CPU** : Pentium IV 2G Hz or above
- **RAM** : 256 MB or above
- **Display** : 800x600, hi-color or better
- OS : MS Windows 2000, XP

Setup Procedure

1. Connect cameras to *Tele*Eye RX {Video Input} with RG59 cable and BNC connector.

Note: The camera system is either NTSC or PAL and all cameras must have the SAME system format.

- 2. Connect CCTV monitor to *Tele*Eye RX {Video Output} with RG59 cable and BNC connector.
- 3. Install and use the bundled key to lock the {Hard Disk Rack} with hard disk to the *Tele*Eye RX.

Note: If there is no hard disk installed, Recording or Playback is not functional during live video monitoring.

- 4. Connect the power adapter (12V DC) to the *Tele*Eye RX.
- 5. Turn on the power of *Tele*Eye RX, camera and monitor. Check the {Power LED} \bigcirc , which is lit up in blue color continuously at *Tele*Eye RX front panel after power on. After several seconds, live video appears on the CCTV monitor as follows:



Note: Please go through the following steps (6-10) if the video of CCTV monitor does not show clearly.

- 6. Press the "Menu" ² button to pop up the [MAIN MENU] on OSD.
- 7. Use "**Up**" or "**Down**" v button to select

[SETUP] option and press "Enter" Enter button to enter the [SETUP] sub-menu.

8. Select [VIDEO] option and press "Enter" Enter button

VIDEO	
SWITCHES	
DATE / TIME	
CONNECTION	
EVENT HANDLER	
TRANSMITTER	
PASSWORD	
USER ACCOUNT	
RX-SE	
SETTING IMPORT/EXPORT	
RESTORE FACTORY SETTING	ENTER
RESTORE FACTORT SETTING	ENTER
Ţ	

VIDEO

CAMERA SETTING LOCAL MONITORING

SPOT VIDEO <u>VG</u>A SETTING

OSD COLOR

VIDEO FORMAT

SETUP MENU

- Select [VIDEO FORMAT] and press "Left" ^{*}
 or "Right" [•] button to set either [NTSC] or [PAL] option. (All cameras should have the same video format).
- 10. You can always press "Live" [©] button to exit any menu operation and start live monitoring.

Setup *Tele*Eye RX video recording server IP through CCTV monitor, please go to step 11a.

Setup *Tele*Eye RX video recording server IP through PC, please go to step11b.

11a: Configure *Tele*Eye RX video recording server modem connection setting through CCTV Monitor



11.a.1. Press the "Menu" [●] button such that the OSD [MAIN MENU] pop up on the monitor.
11.a.2. Use "Up" [●] or "Down" [●] button to select [SETUP] option and press "Enter" [●] button

0

[SETUP] option and press "Enter" Enter button and select [CONNECTION] option and press "Enter" Enter button.

SETUP MENU	
VIDEO RECORDING SWITCHES DATE / TIME CONNECTION EVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT RX-SE SETTING IMPORT/EXPORT RESTORE FACTORY SETTING	 ENTER

Page 5

Basic Installation for Local and Remote Monitoring

- 11 1 11.a.3. Use "**Up**" or "**Down**" button to select [MODEM] option and press "Enter" Enter button
- 11.a.4. Select [BAUD RATE] and then [RING COUNT] option press "Enter" The button 11.a.5. Use "**Up**" [■] or "**Down**" [■] button to set
- number. Press "Enter" Enter button to input baud rate and ring count setting
- button.
- 11.a.7. Press [OK] and back to modem sub-menu. Make sure the modem is connected and restart the modem if the modem is not ready.



Basic Installation for Local and Remote Monitoring



MODEM READY

ОК

- 11.b: Configure *Tele*Eye RX video recording server modem connection setting through PC
 - RG59 cable TeleEye RX CCTV ੂ Monitor RG59 cable Cameras RS232 serial cable Power Adapter Telephone cable $\bullet \bullet \bullet \bullet \bullet$ Modem Telephone RS232 serial cable • • • • Network Telephone cable Modem

Modem Setup for Windows 2000/XP of PC

- 11.b.1. In Windows 2000/XP desktop, select **Start** > **Control Panel**
- 11.b.2. Double click Add Hardware, press **Next**, to search the modem connected to the PC automatically

11.b.3. Windows 2000/XP can search the modem device automatically. If there is any problem in modem installation, please refer to the modem manual.

11.b.4. After searching the modem, Windows 2000/XP can install the modem driver automatically. Press [Finish] button to exit the menu. The modem is ready to use.





This wizard is searching for hardware that has been connected to your computer recently but has not yet been installed.

3

< Back Next >

Please wait while the wizard searches...

50

Cancel

11.b.5. Run WX-30 software which has been installed to the PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)

11.b.6. Choose [Transmitter] → [Registration] to register the *Tele*Eye RX video recording server. User is required to input video recording server serial number and registration code. For example :

Serial No. : VTC12345 Registration Code : 1234567890



11.b.7. Press [Connect] icon to pop up the [Connect Window]. For example, type and select the following setting : Phone/IP : 29955992 (Phone number of the video recording server)
Connect Using : General modem to COM1 (Modem Driver)
Password: 000000 If RX is set to advanced security mode, check

Advanced security mode box and enter User Name

 Details

 Bef. Code:
 Image: Code

 Location:
 RX

 Phone / IP:
 29955992

 Connect Using:
 General modem to COM1

 User Name:
 Image: Code

 Password:
 Dialing Prefix:



Connect icon to connect your 11.b.8. Press [Connect] PC and the video recording server. The video appears on the WX-30 if success. Otherwise, the [Warning] board will pop up and show you failure message. For failure case, please press

[Connect] 🗯 icon to check that the connection setting is valid or not.

- 11.b.9. Press [Transmitter setup] icon to show TeleEye RX configuration menu.
- 11.b.10.Select [Connection] and press [Modem

Settings] ^{Modem Settings} icon to configure network setting.

- 11.b.11.Assign modem baud rate in order to adjust modem connection speed.
- 11.b.12. Assign ring count, so modem can connect to the video recording server after that ring count.
- Apply 11.b.13.Press [Apply] icon to save the network setting and the message board will pop up. After several seconds, the video recording server will restart automatically.
- 12. If user setup modem connection by using local CCTV monitor (Step 11a), please install the modem for your PC and connect to the telephone network in order to connect to TeleEye **RX** video recording server

Setup





Transmitter Setting Saved.

X





- 12.1 In Windows 2000/XP desktop, select Start > Control Panel
- 12.2 Double click Add Hardware, press **Next**, to search the modem connected to the PC automatically



This wizard is searching for hardware that has been connected to your computer recently but has not yet been installed.

0

Kack Next > Cancel

Add Hardware Wizard

Please wait while the wizard searches...

12.3 Windows 2000/XP can search the modem device automatically. If there is any problem in modem installation, please refer to the modem manual.





12.5 Run WX-30 software which has been installed to the PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)



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Press [Connect] icon to pop up the 12.6 [Connect Window]. For example, type and select the following setting :

Phone/IP :

29955992 (Phone number of the video recording server)

Connect Using : General modem to COM1 (Modem Driver) **Password**: 000000

If RX is set to advanced security mode, check Advanced security mode box and enter User Name

Connect 12.7 Press [Connect] icon to connect your PC and the video recording server. The video appears on the WX-30 if success. Otherwise, the [Warning] board will pop up and show you failure message. For failure case, please press [Connect] icon to check that the connection setting is valid or not.







SECTION 4

Basic Operation for Local and Remote Monitoring

A. Local CCTV Monitor : Live Monitoring, Recording and Playback

1. Live Monitoring

Press "**Screen Control**" buttons to view the live video in full, quad, 3 x 3 (RX368_V2 / RX328 / 3616_V2 / RX3216), hex (RX3616_V2 / RX3216) and sequential display mode.



- for **RX364** / **RX324**, FULL, QUAD and SEQUENTIAL buttons are available
- for RX368_V2 / RX328, FULL, QUAD, 3X3 and SEQUENTIAL buttons are available
- for **RX3616_V2** / **RX3216**, FULL, QUAD, 3X3, HEX and SEQUENTIAL buttons are available

Press "Live Camera Control" buttons to fast switch to a specific camera for local monitoring



- for **RX364** / **RX324**, buttons 1-4 are available
- for **RX368_V2** / **RX328**, buttons 1-8 are available
- for **RX3616_V2** / **RX3216**, buttons 1-16 are available

Basic Local Operation: Live Monitoring, Recording and Playback

2. Recording

- 1. Press "**Rec**" ² button and [**RECORDING**] menu will pop up.
- 2. Select [**REC CAMERA**] option and press "**Enter**" • Enter button to enable recording cameras.*
- 3. Use "Left" ^{*}
 O or "Right" ○^{*} button to select the recording camera and use "Up" ⁰ or "Down"
 button to enable or disable the recording camera.
- 4. Step 4: After setting the recording cameras, press "Enter" button to save the setting and back to [RECORDING] menu.
- 5. Select [START RECORDING] option and press "Enter" Enter button for recording. The {Rec LED}

will be turned ON (**RED Color**) Rec which indicates that recording is processing.

6. Press "**Rec**" ² button again to stop recording function and the {**REC LED**} will be turned OFF.

*Note: REC CAMERA is not selectable when recording mode is set to FULL 100FPS, all cameras will be recorded under this recording mode.



Playback

- Press "Search" search button to pop up 1. [RECORDING LOG] board on OSD.
- Press "Play/Enter" Enter button to show [PLAY] 2. menu.
- Select [MINUTE LOG] and press "Enter" Enter 3. button.

[RECORDING LOG] board will show the log in minute scale.

Select a record and press "Enter" Enter button for 4. playback.

Then [PLAYBACK] menu will pop up again.

Select [PLAY] option and press "Enter" Enter 5. button again for playback.



MINUTE LOG



0 0 7. Press "screen control" or "camera buttons to control" 🥊 change the view mode in local CCTV video playback.

Basic Local Operation: Live Monitoring, Recording and Playback



12 – 13 AUG2005 REMARK SENSOR

- - - -

....

. . . .



EVENT

.

RECORDING LOG

CAMERA

1234

- - - 4

TIME

11:00

12:00

13:00

14:00 15:00 16:00

TIME

11:54

11 : 55

11 : 56 11 : 57

11:58

11:59

B. *Tele*Eye RX Reception Software WX-30 : Live Monitoring, Recording and Playback

1. Live Monitoring

User can view a particular camera by simply clicking the camera button (e.g. 1, 2, 3) on the camera control panel, to view all cameras, click **[All]** button.

Screen views in Full screen

Screen views in Quarter screen

Screen views in Hex screen

Auto-arrange is to optimize the screen views in order to display as many high-resolution pictures as possible.

User can change **TeleEye RX** Reception Software WX-30 live monitoring picture quality by following steps.

- 1. Click [**Transmitter Settings**] _____button at the software front panel.
- 2. Enter the administrator password to proceed.
- 3. A video recording server settings menu will pop up.
- 4. Choose video properties under [video input] to change the <u>brightness</u>, contrast and color level.
- 5. Select in **[Recording]** to change the recording quality and resolution.



Camera

2

6

10

14

3

7

11

15

4

12

1

5

13

<u>D</u>efault

Recording Quality & Resolution	
Quality: Low	
Image Size: FULL	



×

- 2. Recording
- 1. Press [**Record**] icon to setup recording setting.



Administrator Password

2.	Input administrator password (000000 as default
	password) and press [OK] button.

<u>P</u> asswo	ord:	*****	
		ок	Cancel
		<u></u>	
ording		~	
Manual Record	ing	S	etting
-Recording Car	nera		
CAM 1	CAM 2	CAM 3	CAM 4
E CAME	CAM 6	🗖 CAM 7	CAM 8
L CHIM O	🗖 CAM 10	🗖 CAM 11	🗖 CAM 12
🗖 САМ Э	🗖 CAM 14	CAM 15	E Gran 19
🗖 САМ Э	CAM 14		elect <u>All</u>

- 3. Enable recording cameras (Tick ☑ for enable, blank for disable)
- 4. Press [Start Recording] ______ button to start recording

Recording	~<	ГГ	
function is running — • (•) 「	•

3. Playback

- 1. Press [Play] button to show playback menu
- Select and input the record date and time for searching and press [Reload] button.
- Select a time slot record and press [Start
 Playback]
 Start Playback
 button.





- Use "playback control button" to control playback video such as "play", "pause", "forward", "backward" and "stop" function.
- 5. Press [All] All, [Full screen] , [Quarter screen] , [3X3 screen] , [Hex screen]
 or [Auto-arrange] icon to change the view mode for playback.



Note: After pressing "**pause**" button for 1 minute, reception software WX-30 will continue to playback the video automatically.

Note: If user record video by using quad recording mode, the playback video quality may not be good as in full screen display mode.
SECTION 5 OSD Menu Operation

How to use OSD menu Α.

II↑



- Press the "**Menu**" button to open the main menu 1.
- Use the "**Up**" / "**Down**" + button to select a sub-menu 2.
- A selected sub-menu option will be pointed by a hand cursor and highlighted 3.
- Press "Enter" button to confirm the selection and open the sub-menu 4.
- 5. If menu option ends with [...] indicates sub-menu existing, you can always press the "Enter" Enter button to open the sub-menu.
- If menu option does not end with [...] but provides selection, user can press the "Left" 6. **"Right**" **"** button to select the options.
- You can press the "**Back**" Back button once back to previous menu. 7.
- Press "Live" button or "Back" ack button until OSD disappears to exit menu and 8. save the setting. [SETTING SAVED] message will be shown.

B. Main Menu

The Main menu allows user to setup and control the video recording server, some operations such as backup, switch, scandisk and format can be done in the main menu. **Main Menu**

MAIN MENU **SETUP** . . . **FOOTAGE BACKUP SWITCH CONTROL SCAN / FORMAT DISK TRANSMITTER INFO** LOCK KEYS . . . **USER LOG-IN/OUT ENTER** SHUT DOWN : Change the *Tele*Eye RX video recording server **SETUP** setting : Backup recorded video to CD, DVD or USB Flash FOOTAGE BACKUP SWITCH CONTROL : Turn on /off switch 1-4 **SCAN / FORMAT DISK** : Show the hard disk information, scandisk and format **TRANSMITTER INFO** : Show the *Tele*Eye RX video recording server information LOCK KEYS : Lock the panel keys **USER LOG-IN/OUT** : User log-in or log-out SHUT DOWN : Shut down or restart TeleEye RX video recording

server

Main Menu→Setup

	SETUP MENU		
	♥ VIDEO RECORDING SWITCHES DATE / TIME CONNECTION EVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT RX-SE SETTING IMPORT/E	EXPORT	
VIDEO		: Change camera, local monit	
	~	color and video format rela	6
RECORDIN	-	: Change recording related se	
SWITCHES		: Change switches related set	e
DATE/TIME		: Change date and time settin	-
CONNECTION		: Change connection and network related settings	
EVENT HA	NDLER	: Change event related setting	gs
TRANSMIT	TER	: Change the video recording checking and perform firm	
PASSWORD		: Change the password	10
		: Add / modify user account	
		: Change RX-SE setting	
		: Import and export setting	
RESTORE FACTORY SETTING		: Restore default factory setti	ng
		· · · · · · · · · · · · · · · · · · ·	Θ

Main Menu→ Setup→Video

VIDEO	
CAMERA SETTING LOCAL MONITORING SPOT VIDEO VGA SETTING OSD COLOR VIDEO FORMAT	 BLUE PAL

CAMERA SETTING LOCAL MONITORING SPOT VIDEO* VGA SETTING* OSD COLOR VIDEO FORMAT

- : Change camera name and install camera
- : Change local CCTV monitor related setting
 - : Change Spot video output setting
 - : Change VGA output setting
 - : Change OSD color
- **RMAT** : Change the video format to PAL or NTSC format

*Note : only supported in RX368_V2 / RX328 / RX3616_V2 / RX3216

Main Menu→ Setup→Video→Camera Setting

	CAMERA	SETTING	
I CAMERA CAMERA CAMERA CAMERA	2 3		
CAMERA CAMERA CAMERA CAMERA	14 15		

Note: Number of items in this menu depends on video recording server model.

Main Menu→ Setup→Video→Camera Setting→ Camera 1 Setting

	CAMERA 1 SETTING		
	INSTALLED NAME BRIGHTNESS CONTRAST COLOR SUPPORT PTZ	YES CAMERA 1 64 64 64 YES	
INSTALLED NAME BRIGHTNESS CONTRAST COLOR SUPPORT PTZ GENERAL PTZ SE ^T	: Rename the : *Change can : *Change can : *Change can : Enable the F	 : Install the camera : Rename the camera : *Change camera brightness : *Change camera contrast : *Change camera color : Enable the PTZ camera : Change PTZ camera setting 	

*Note: BRIGHTNESS / CONTRAST / COLOR settings only available in RX368_V2 / RX328 / RX3616_V2 / RX3216

Main Menu \rightarrow Setup \rightarrow Video \rightarrow Camera Setting \rightarrow Camera X Setting \rightarrow General PTZ Setting

	GENERAL PTZ SETTING	à
	☑ PAN SPEED TILT SPEED PTZ MOVEMENT SETTING ADVANCE PTZ SETTING	FAST FAST
PAN SPEED : Select the pan (horizontal direction) speed of PTZ camera		ontal direction) speed of the
TILT SPEED	: Select the tilt (vertica camera	al direction) speed of the PTZ
PTZ MOVEMENT ADVANCE PTZ SE		era movement duration hera driver and baud rate

Main Menu→ Setup→Video→Camera Setting→ Camera X Setting → General PTZ Setting→ PTZ Movement Setting

PTZ MOVEMENT SETTING	
PAN DURATION	5
TILT DURATION	5
ZOOM DURATION	3
FOCUS DURATION	3
IRIS DURATION	3
ADDITIONAL DURATION	3
WASHER DURATION	3
WIPER DURATION	3
PATROL SPEED	3
DWELL TIME	2

PAN DURATION TILT DURATION ZOOM DURATION FOCUS DURATION IRIS DURATION ADDITIONAL DURATION WASHER DURATION WIPER DURATION PATROL SPEED DWELL TIME

- : Select the PTZ camera pan duration
- : Select the PTZ camera tilt duration
- : Select the PTZ camera zoom duration
- : Select the PTZ camera focus duration
- : Select the PTZ camera iris duration
- : Select the PTZ camera additional duration if any
- : Select the PTZ camera washer duration
- : Select the PTZ camera wiper duration
- : Select the PTZ camera patrol speed
- : Select the PTZ camera dwell time

Main Menu \rightarrow Setup \rightarrow Video \rightarrow Camera Setting \rightarrow Camera X Setting \rightarrow General PTZ Setting \rightarrow Advance PTZ Setting

ADVANCE PTZ SETTING		
₽ PTZ DRIVER BIT RATE	TELEEYE DM4 9600	

PTZ DRIVER BIT RATE : Select the PTZ camera driver : Select the PTZ camera bit rate

Main Menu→ Setup→Video→Local Monitoring

LOCAL MONITORING		
CLOCK POSITION CAMERA NAME POSITION SEQUENTIAL SWITCH TIME SEQUENTIAL MODE CAMERAS DEFAULT DISPLAY MODE HORIZONTAL POSITION VERTICAL POSITION HORIZONTAL SCALE	BOTTOM TOP 1SEC 1-3- QUAD 5 0 10	
VERTICAL SCALE	2	

CLOCK POSITION CAMERA NAME POSITION SEQUENTIAL SWITCH TIME	Change the clock positionChange the camera name positionChange the switch time between each live
SEQUENTIAL MODE CAMERAS DEFAULT DISPLAY MODE	 camera display for sequential mode monitoring Select cameras for sequential mode monitoring Select default display mode in CCTV monitor after <i>Tele</i>Eye RX video recording server boot
HORIZONTAL POSITION VERTICAL POSITION HORIZONTAL SCALE VERTICAL SCALE	up : Change horizontal position of local video output : Change vertical position of local video output : Change horizontal scale of local video output : Change vertical scale of local video output

For [HORIZONTAL POSITION], [VERTICAL POSITON], [HORIZONTAL SCALE] and [VERTICAL SCALE] options, change these options if live video position or size display does not fit in the local CCTV monitor.

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Main Menu→ Setup→Video→Spot Video

SPOT VIDEO	
G DEFAULT CAMERAS	12345678
SEQUENTIAL TIME	3SEC

CLOCK POSITION CAMERA NAME POSITION

- : Change the clock position
- : Change the camera name position

Main Menu→ Setup→Video→VGA Setting

VGA SET	TING
VGA OUT	DETECTED
SPOT VGA OUT	NONE
RESOLUTION	1024X768
FREQUENCY	75HZ

VGA OUT SPOT VGA OUT RESOLUTION FREQUENCY

- : Change the clock position
- : Change the camera name position
- : Change VGA output resolution
- : Change VGA output frequency

Main Menu→Setup→Recording

RECORDING			
RECORDING MODE	CONTINUOUS		
DISK MODE	CYCLIC		
QUALITY	EXCELLENT		
IMAGE SIZE	FULL		
RECORDING AUDIO CHAN	INEL -		
AUDIO QUALITY	STANDARD		
SCHEDULE RECORDING			
RECORDING RETENTION			
RECOVER RECORDING	ENTER		

RECORDING MODE	: Change recording mode in 1, 2, 3, 4, 5 frame per second (FPS), FULL 100 FPS* and continuous setting.
DISK MODE	: Select the fix or cyclic disk mode
QUALITY	: Change recording quality with 5 levels
IMAGE SIZE*	: Change recording video size in different
	modes
RECORDING AUDIO CHANNEL	: Select the recording audio channels
AUDIO QUALITY	: Change audio quality with standard or high quality
SCHEDULE RECORDING	: Set up a recording schedule up to 1 week
RECORDING RETENTION	: Set a retention period for recording
RECOVER RECORDING	: Recover damaged recording log.

*Note: FULL 100 FPS mode will record all installed cameras in FULL image size at 100 frames per second. User cannot change image size and recording cameras while FULL 100 FPS mode is selected.

Note: Recording in cyclic disk mode can erase the oldest recording data in hard disk if the hard disk is full, whereas recording will be stopped in fix disk mode

Note: 4 and 5 FPS are not supported in RX3616_V2 / RX3216 when recording image size is set to FULL.

Recording Scheduler

Recording scheduler allows users to record video with user selected time. It supports 2 modes of schedule recording: normal recording and motion recording.

Normal type:

The video recording server records video with user selected frame rate. Continuous, 1FPS, 2FPS, 3FPS, 4FPS, 5FPS and FULL 100 FPS can be chosen in normal recording mode.

Motion type:

The video recording server records video of a camera if the selected motion block in the camera detects motion during user selected time. Motion recording only provides 1FPS and continuous recording frame rate.

Main Menu \rightarrow Setup \rightarrow Recording \rightarrow Recording Audio Channel



Press "Up" / "Down" / "Left" * / "Right" * to select the channel

Note: One audio channel for RX364 / RX324. Two audio channels for RX368_V2 / RX328 / RX3616_V2 / RX3216. Recording audio channel 1 associates with camera 1. Recording channel 2 associates with camera 2.

Adding Schedule In Calendar View

Press "Menu" [®] button, select [SETUP] option and 1.

press "Enter" button to enter [SETUP] sub menu. Select [RECORDING] option and press

"Enter" button, then select [SCHEDULED

RECORDING] option and press "Enter" button to show recording scheduler menu.

Calendar View of recording schedule is shown. 2. Press "Enter" Enter button to add schedule or change view.





- Select [ADD] option and press "Enter" Enter button to 3. add a new recording schedule.
- 4. Select [TYPE] option to choose schedule recording type. **[REC]** for normal schedule recording. [MOTION REC] for motion schedule recording.

ADD SCHEDULE			
🗗 ТҮРЕ	REC		
WEEKDAYS	S		
START TI ME	00:00		
END TIME	02:00		
CAMERA	1234		
FRAME RATE	CONTINUOUS		
GENERAL MOTION	SETTING		
APPLY	ENTER		

OPTION ADD LIST VIEW

5. Select [WEEKDAYS] and press "Enter" Enter button to select the day of time slot added in a week. Use "Up" or "Down" button to enable the day. From left to right, the day options are Sunday (S), Monday (M), Tuesday (T), Wednesday (W), Thursday (T), Friday (F) and Saturday (S). Press

"Enter" Enter button to apply the weekdays setting.

6. In [ADD SCHEDULE] menu, select [START TIME] and [END TIME] to choose the time interval for the schedule recording. Press "Enter" Enter button and use "Up" or "Down" + button to select the time. A time slot is minimum 10 minutes

long. Finally, press "Enter" Enter button to apply the time settings.

- 7. In [ADD SCHEDULE] menu, select [CAMERA] or [FRAME RATE] to choose the frame rate or camera respectively. If [FRAME RATE] is set to FULL 100 FPS, [CAMERA] is not selectable and set to all installed camera automatically.
- 8. If user selects motion recording in **[TYPE]** option, user should set motion settings in **[GENERAL MOTION SETTING]** option.



Note that :

If **[END TIME]** is earlier than **[START TIME]**, it will assume the end time is on next day.

E.g. Monday, start time : 18:00, end time : 09:00

The schedule period is from Monday 18:00 to Tuesday 09:00.

ADD	SCHEDULE
TYPE	MOTION REC
WEEKDAYS	SMTWTFS
START TI ME	00 : 00
END TIME	02:00
CAMERA	1234
FRAME RATE	CONTINUOUS
GENERAL MO1	ION SETTING
APPLY	ENTER



ALL

MID 5 2

₽SELECT DESELECT SELECT ALL DESELECT A

RESTORE

SENS LEVEL AREA OK

9. Select the motion region and press "Enter"

MOTION 9 REGION SETTING

_	APPLY] and press "Enter"			ADD SCHEDULE
save the	recording schedule setting of	the time slot.	TYPE WEEKDAYS START TI M END TIME CAMERA FRAME RA GENERAL I APPLY	NE 00 : 00 02 : 00 1234
HOUR 00:00 02:00	← SUNDAY · TIME SCALE	→ CAM 1000000000000000000000000000000000000	BODEFG	One block of time slot on calendar view represents a 10minute schedule, so one row represents 2-hour schedule.
02:00 04:00 06:00 08:00 10:00 12:00		123546789A 123546789A 123546789A 123546789A 123546789A	BCDEFG BCDEFG BCDEFG	The row represents a period of 8:00-10:00
14:00 16:00 18:00 20:00 22:00		123546789A 123546789A 123546789A 123546789A 123546789A	BCDEFG BCDEFG	 Red numbers means the cameras is normal recording Green numbers means the cameras is motion recording White members means the cameras for a second secon
	: REC : MOTION REC • Red block means the timeslot is so recording. • Green block means the time slot i	et to normal		• White numbers means the cameras are set to motion and normal in the same row i.e. within 2 hours.

• Only one recording type can be set in one time slot

ENTER

1234 ENTER

11. Press "Live" ⁹ button to exit OSD menu or press

"Back" button to enter action menu again. Press "Record" button to enter [RECORDING] menu. Select [START SCHEDULE REC] and

press "Enter" button to activate recording scheduler

Recording Scheduler in List View

0

1. In calendar view, press "Enter" ^[Inter] button to pop up [OPTION] menu. Select [LIST VIEW] and

press "Enter" ^O_{Enter} button to enter list view.

2. List view schedule is shown. The schedule in list view is same as the schedule in calendar view.

Press "Enter" button to pop up [OPTION] menu.

SUNDAY			
START	END	CAMERA	FPS
00:00	09:00	1234	С
09:00	10:00	12–4	2
<u>10 : 00</u>	12:00	1–3–	1
12:00	14:00	12—	3
14 : 00	16:00	1–3–	4
16:00	18:00	1–34	5
18 : 00	19:00	1234	С
19:00	22:00	1234	1
22:00	00:00		С
: REC : MOTION REC			REC

3. In **[OPTION]** menu of list view, user can add, remove, edit or copy schedule in list view. Select

[CALENDAR VIEW] and press "Enter" Enter button to return to calendar view.





START RECORDING REC. CAMERA IF START SCHEDULE REC



OSD Menu Operation

*Tele*Eye RX User Guide

- Removing Schedule Procedure
 - 1. In list view, select the time slot that you would like to remove.

SUNDAY			
START	END	CAMERA	FPS
00:00	09:00	1234	С
09:00	10:00	12–4	2
10:00	12:00	1–3–	1
12:00	14:00	12—	3
14:00	16:00	1–3–	4
16:00	18:00	1–34	5
18:00	19:00	1234	С
19:00	22:00	1234	1
22:00	00:00	1–34	С
	: REC	: MOTION	REC

OPTION

2. Press "Enter" Enter button to pop up [OPTION]

menu. Select [**REMOVE**] and press "Enter" Enter button to pop up [**REMOVE OPTION**] menu.

Select [REMOVE SELECTED] to remove the selected schedule. User may choose [REMOVE DAY] to remove all schedules for the whole day. Or, choose [REMOVE WEEK] to remove all schedules in a week. Select [CANCEL] to exit the menu without removing schedule.

Editing Schedule Procedure

1. In list view, select a time slot that you would like to edit.



SUNDAY			
START	END	CAMERA	FPS
00:00	09:00	1234	С
09:00	10:00	12–4	2
10:00	12:00	1–3–	1
12:00	14:00	12—	3
14:00	16:00	1–3–	4
16:00	18:00	1–34	5
18:00	19:00	1234	С
19:00	22:00	1234	1
22:00	00:00	1–34	С
	: REC : MOTION REC		REC



menu. Select [EDIT] and press "Enter" button to pop up [EDIT SCHEDULE] menu.



3. In **[EDIT SCHEDULE]** menu, user can change recording type, camera and frame rate of that schedule. If the schedule is motion recording, user should change motion settings.

After changing the settings, select [APPLY] and

press "Enter" Enter button to save the new schedule settings.

Copying Schedule Procedure

1. In list view, select the time slot that you would like to copy.

Press "Enter" button to pop up [OPTION] menu.
Salast [CODV] antion and pross "Entar" a hutton to

Select [COPY] option and press "Enter" Enter button to pop up [COPY SCHEDULE] menu.

- In [COPY SCHEDULE] menu, select [COPY SCHEDULES] option and user should set [SINGLE SCHEDULE] to copy the selected schedule of the day or set [ENTIRE DAY] to copy all schedules of the day.
- 3. Select [COPY TO WEEKDAYS] option to set the day that the schedule copies to. Select

[APPLY] option and press "Enter" button to copy the schedule.



: MOTION REC

EDIT SCHEDULE		
TYPE CAMERA FRAME RATE GENERAL MOTION APPLY	MOTION REC 1234 CONTINUOUS N SETTING ENTER	

	SUNDAY			
START	END	CAMERA	FPS	
00:00	09:00	1234	С	
09:00	10:00	12–4	2	
10:00	12:00	1-3-	1	
12:00	14:00	12—	3	
14:00	16:00	1-3-	4	
16:00	18:00	1–34	5	
18:00	19:00	1234	С	
19:00	22:00	1234	1	
22:00	00:00	1–34	С	

: REC

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Recording Retention

*Tele*Eye RX video recording server supports password protection for all menus, System administrator can setup a password to protect the video recording server from being operated by unauthorized operators

Record Retention Setup Procedure

- Press "Menu" button, select [SETUP]
 option and press "Enter" enter button to enter [SETUP] sub menu. Select
 [RECORDING] option and press "Enter"
 button, then select [RECORD RETENTION] option and press "Enter"
 button to show [RECORDING RETENTION] menu.
- 2. In **[RECORDING RETENTION]** menu, user and enable/disable this function, set retention period and schedule time for

retention. Press "Enter" Enter button after selecting [RETENTION PERIOD (DAYS)] / [SCHEDULE TIME FOR

RETENTION] and use "Up" O or

"**Down**" ■ + button to select the period / time.

Main Menu→Setup→Switches



Change the switch setting by choosing "SWITCH 1, 2, 3 and 4"



RECORDING RETENTION

ENABLE
 RETENTION PERIOD (DAYS)
 SCHEDULE TIME FOR RETENTION

YES 999 08:00

Main Menu \rightarrow Setup \rightarrow Switches \rightarrow Switch 1 Setting

SWITCH 1 SETTING		
I NAME	SWITCH 1	
TYPE	LATCHING	

NAME TYPE

- : Edit the name of the switch
- : Change the type of the switch, either latching or push-button type

Main Menu→ Setup→ Date Time Setup

	DATE	/ TIME
	TIME SYNC ENABLED TIME ZONE DATE TIME PRI TIME SERVER SEC TIME SERVER DNS SETTING UPDATE DATE / TIME STATUS	YES 11 MAR 2006 11 : 03 TIME . WIND TIME . N IST ENTER
TIME SYNC ENABL	ED : Enable/Disa	able time synchronization
TIME ZONE	: Change the	time zone
DATE	: Set the current date	
TIME	: Set the current time	
PRI TIME SERVER	: Set a primary time server	

PRI TIN **SEC TIME SERVER DNS SETTING UPDATE DATE/TIME STATUS**

- : Set a secondary time server : Change the network setting
- : Update date/time from server
- : Show the status of time sync

Modify system time

- 1. System date and time can only be modified when **TIME SYNC** is disabled.
- Press "Enter" witton to select [DATE TIME] or [TIME] option 2.

	DATE		ТІМЕ
DATE	24 AUG 2005	TIME	<mark>15</mark> : 18

- Press "Left" **Contract Contract State**, month, year for [DATE TIME] or 3. select hour, minutes for [TIME] option
- Press "**Up**" •/ "**Down**" •• button to change the value 4.
- Press "Enter" Enter button to save setting and exit this page of menu 5.

OSD Menu Operation

Main Menu→ Setup→ Date/Time→ Time Zone

- 1. Select a corresponding time zone will enable Daylight saving function.
- Press "Left" C / "Right" C button to select between time zones (GMT).
- 3. Press "Up" ✓/ "Down" ↓ button to select between different cities
- 4. Press "Enter" Enter button to save setting and back to previous menu.

←GMT +08:00→
GMT +08:00
ANTARCTICA/CASEY
ASIA/BRUNEI
ASIA/CHONGQING
ASIA/CHUNGKING
ASIA/HARBIN
ASIA/HONG_KONG
ASIA/IRKUTSK
ASIA/KASHGAR
ASIA/KUALA LUMPUR
ASIA/KUCHING
ASIA/MACAO
ASIA/MACAU
PAGE 1/3

Main Menu→ Setup→ Connection

CONNECTION	
MODEM	
THROUGHPUT	

TCP / IP	: Configure TCP/IP network related setting
MODEM	: Configure modem related setting
THROUGHPUT	: Configure throughput control setting

Main Menu→ Setup→ Connection→ TCP / IP

	TCP		
	₿IP	192.168.0.2	
	PORT	1024	
	SUBNET MASK	255.255.255.0	
	ENABLE GATEWAY	NO	
	GATEWAY	0.0.0.0	
	ENABLE DNS	NO	
	PRIMARY DNS	0.0.0.0	
	SECONDARY DNS	0.0.0.0	
	SURELINK		
IP	: Change 7	eleEye RX video recordi	ng server IP
PORT	e	eleEye RX video recordi	•
SUBNET MASK	: Change 7	eleEye RX video recordi	ing server subnet
	ma	•	C
ENABLE GATEWA	Y : Enable <i>Te</i>	eleEye RX video recordin	ng server gateway
	set	ting	
GATEWAY	: Change T	eleEye RX video recordi	ng server
	gat	teway	
ENABLE DNS	: Enable <i>Te</i>	eleEye RX video recordin	ng server DNS

	setting
PRIMARY DNS	: Change <i>Tele</i> Eye RX video recording server
	primary DNS
SECONDARY DNS	: Change <i>Tele</i> Eye RX video recording server
	secondary DNS
SURELINK	: Change <i>Tele</i> Eye RX video recording server
	sureLINK setting

Main Menu \rightarrow Setup \rightarrow Connection \rightarrow TCP / IP \rightarrow sureLINK

	SURE		
	F ENABLED SURELINK ADDRESS REFRESH RATE ADVANCED SETTING TEST STATUS	YES WWW 15 MINS ENTER WORK IN PROGRESS	
ENABLED SURELINK ADDRI		reLINK option e <i>Tele</i> Eye RX video reco K address	ording server
REFRESH RATE ADVANCED SETT TEST STATUS	ING : Set the pri : Test conne	sureLINK refresh rate mary and secondary sure ection to sureLINK serve of the sureLINK	

Note: There are three status; success, work in progress and fail. Success means it connects to the **sureLINK** *server successfully.*

Main Menu→ Setup→ Connection→ TCP / IP→ *sure*LINK

→ Advanced setting

ADVANCED SURELINK SETTING

- 1. Select [**PRI. SURELINK DOMAIN**] and press "**Enter**" button to set the primary *sure*LINK suffix.
- 2. After inputting the primary *sure*LINK domain, select [SEC. SURELINK DOMAIN] and press "Enter" button to set the secondary *sure*LINK suffix.

Main Menu→ Setup→ Connection→ Modem

MOD	EM
INTERFACE	COM PORT
BAUD RATE	57600 BPS
RING COUNT	1
TEST MODEM	ENTER

INTERFACE

: Change the interface of the modem (USB/COM POT/DISABLE)

BAUD RATE RING COUNT TEST MODEM : Change the baud rate of the modem

: Change the ring count to connect to the modem

: Test the status of the modem

Main Menu→ Setup→ Connection→ Throughput

THROUGHPUT	
🕼 LAN STREAM	100M BPS
BROADBAND STREAM	40M BPS
NARROWBAND STREAM	128K BPS
BPS : BIT PER SECOND	

LAN STREAM BROADBAND STREAM NARROWBAND STREAM

: Change the data rate of LAN connection

: Change the data rate of broadband connection

: Change the date rate of narrowband connection

Main Menu→ Setup→ Event Handler

EVENT HANDLER	
	· · · · · · · · · · ·
DISK USAGE OVERHEAT	
HDD AVAILABLE	

The event handler menu contain 9 functions (ARM/DISARM, SECURITY SWITCH, ALARM, MOTION, VIDEO LOSS, SYSTEM TAMPER, POWER FAILURE, DISK USAGE, OVERHEAT and HDD Available)

Main Menu→ Setup→ Transmitter

TRANSMITTER	
F TRANSMITTER NAME	RX364
REGISTRATION CHECKING	YES
BUILT-IN WEB SERVER	NO
UPGRADE	

TRANSMITTER NAME	
REGISTRATION CHECKING	

- : Rename the video recording server
- : Check if the serial number of the video recording server match the serial number registered in the reception software WX-30 or not

BUILT-IN WEB SERVER UPGRADE : Change the status of built-in server : Upgrade new version firmware

Main Menu→ Setup→ Transmitter→Upgrade

FIRMWARE UPGRADE	
^{IF} UPGRADE FROM USB	ENTER
UPGRADE FROM CD	ENTER

The new version firmware can be upgraded via USB or CD

Note: User needs to install a formatted hard disk first before the firmware upgrade through CD

Main Menu→ Setup→ Password

PASSWORD MENU	
ENABLE EVENT MENU PASSWORD	NO
ENABLE RECORDING MENU PASSWORD	NO
ENABLE SEARCH MENU PASSWORD	NO
ENABLE MAIN MENU PASSWORD	NO
ENABLE KEYS LOCKED PASSWORD	NO
G CHANGE PASSWORD	

ENABLE EVENT MENU PASSWORD ENABLE RECORDING MENU PASSWORD

ENABLE SEARCH MENU PASSWORD ENABLE MAIN MENU PASSWORD ENABLE KEYS LOCKED PASSWORD CHANGE PASSWORD *Note: default password = 111111

- : Change the status of event menu password
- : Change the status of recording menu password
- : Change the status of search menu password
- : Change the status of main menu password
- : Change the status of keys locked password
- : Setup a new password

Main Menu→ Footage Backup

	FOOTAGE BACKUP
	BACKUP TO CDBACKUP TO DVDBACKUP TO USB FLASH
BACKUP TO CD BACKUP TO DVD BACKUP TO USB FLA	 : Backup footage to CD-R : Backup footage to DVD-R : Backup footage to USB Flash
	FOOTAGE BACKUP
	BACKUP TO :CDMODEALL CAMERASCAMERA1234START DATE30 JAN 2007START TIME17:11BACKUP PERIOD5 MINSBACKUP MAX SIZE (MB)650START BACKUPENTER
MODE	: Set the backup type (ALL CAMERAS / SELECT CAM / QUICK)
CAMERA	: Choose backup cameras
START DATE	: Set the start date of the footage
START TIME	: Set the start time of the footage
BACKUP PERIOD	: Set the backup period
MAX BACKUP SIZE	: Set the backup size (10MB ~ 650 MB for CD, 10MB
	~ 4700 MB for DVD and USB Flash)
START BACKUP	: Start Backup operation, and <i>Tele</i> Eye RX video
	recording server will search the footages from start
	date and time and calculate the end time of footage according to the footages size and backup size.
Main Menu→ Switch	

SWITCHE USE CAM KE CONTROL SW	YS TO		USE CAM	CHES KEYS TO SWITCHES
NO NAME 1 SWITCH 1 2 SWITCH 2 3 SWITCH 3 4 SWITCH 4 BAC	ON SK	OFF OFF OFF OFF	NO NAME OFF 1 SWITCH 1 2 SWITCH 2 3 SWITCH 3	ON ON ON ON

The switches can be controlled by pressing the cam keys (1, 2, 3 and 4) respectively. And the screen will show the current status (ON/OFF) of switches

SWITCH 1	: Control by cam key 1
SWITCH 2	: Control by cam key 2
SWITCH 3	: Control by cam key 3
SWITCH 4	: Control by cam key 4

OSD Menu Operation

Main Menu→ Scan / Format Disk

	SCAN / FORMAT DISK		
	DEVICE	LOCAL	
	START TIME	22:35 20/06/06	
	END TIME	10:07 15/11/06	
	MASTER MODEL NO	XXXX XXXX	
	MASTER SERIAL NO MASTER CAPACITY	400GB	
	SLAVE MODEL NO	400GB N/A	
	SLAVE MODEL NO	N/A	
	SLAVE CAPACITY		
	DISK USAGE	52%	
	SCAN DISK	ENTER	
	FORMAT DISK	ENTER	
DEVICE		e device type	
	: Show the start time of recording		
START TIME	: Show th	e start time of recording	
START TIME END TIME		e start time of recording e end time of recording	
	: Show th		
END TIME	: Show th : Show th	e end time of recording	
END TIME MODEL NO	: Show th : Show th : Show th	e end time of recording e device model no.	
END TIME MODEL NO SERIAL NO	: Show th : Show th : Show th : Show th	e end time of recording e device model no. e device serial no.	
END TIME MODEL NO SERIAL NO CAPACITY	: Show th : Show th : Show th : Show th : Show th	e end time of recording e device model no. e device serial no. e capacity of the device	

Note :

Start time is the first recording time and end time is the latest recording time in RX. Select **[DEVICE]** and use "Left" ^{*} or "Right" ^{*} button to choose RX-SE. It will show the first and the lastest recording time of RX-SE in START TIME and END TIME. The information under the scan/format disk sub-menu will be changed after formatted disk.

Main Menu→ Transmitter Information

TRANSMITTER	INFORMATION
TRANSMITTER NAME	RX364
TRANSMITTER IP	192.168.0.2
MODEL NO .	RX364
SERIAL NO .	VTCXXXXX
VERSION	01.00

TRANSMITTER NAME TRANSMITTER IP MODEL NO. SERIAL NO. VERSION

- : Show the video recording server name
- : Show the video recording server IP address
- : Show the video recording server model no.
- : Show the video recording server serial no.
- : Show the video recording server firmware version

Main Menu→ Lock Keys



When the keys are being locked, pressing any key on the front panel the system will show a message to confirm the unlock operation. Select "YES" to unlock the keys , "NO" to keep the keys locked.

C. Recording Log Menu



RECOR	DING LOG		12 – 13	AUG2005			
TIME	CAMERA	EVENT	REMARK	SENSOR	MOTION	AUDIO	VIDEOLOSS
11:00	1234						
12:00	4						
<u>13 : 00</u>							
14:00	- 2						
15 : 00							
16:00	1						
17:00	1						

TIME CAMERA EVENT REMARK SENSOR MOTION AUDIO VIDEOLOSS

- : Show date of log
- : Show time of log
- : Show event triggered
- : Items are not available now
- : Show alarm sensor triggered
- : Show motion trigger in which camera
- : Show audio channel
- : Show camera video loss
- 1. Press "**Enter**" button to choose play recording log, time search function and log time scale
- 2. Press the "**Back**" $\stackrel{\frown}{}_{\text{Back}}$ button to exit the recording log menu



PLAY TIME SEARCH MONTH LOG DAY LOG HOUR LOG 10MIN LOG MINUTE LOG

- : Play the current selected record
- : Search specify time recording log and play it
- : Change the recording log scale to month
- : Change the recording log scale to day
- : Change the recording log scale to hour
- : Change the recording log scale to 10 minutes
- : Change the recording log scale to 1 minute

Recording Log Menu→Time Search

	TIME SEARCH				
	DATE TIME CAMERA SEARCH SEARCH MULTIPLE	13 SEP 2005 10 : 30 1234 ENTER ENTER			
DATE	: Select the c	late of record			
TIME	: Select the t	ime of record			
CAMERA	: Select the c	camera of record			
SEARCH	: Search the	record			
SEARCH MULTIPL					

Recording Log Menu→Search Multiple

TIME SEA	RCH
DATE	13 SEP 2005
TIME	10 : 30
CAMERA	1234
SEARCH	ENTER
IF SEARCH MULTIPLE	ENTER

1. Select search multiple and press "Enter" button. Multiple results will show if there is more than one record included in the search time.



- 2. Select the number and press "Enter" Enter button.
- 3. Select play and Press "Enter" Enter button to view the result.



D. PTZ Menu



1. For any camera supports PTZ, **[PTZ OPTION]** menu always pops up when user press the

"Live" button. Select [DISABLE PTZ] to disable PTZ function.

2. Use the "Up" / "Down" + button to select each option

PTZ Control Interface

PTZ symbol 😨 will flash near the camera name on the OSD for current controlling PTZ camera. User can use front panel to perform pan / tilt / zoom action of the selected PTZ supported camera anytime when live monitoring on OSD.

PTZ Control Method :

1. Press "Live" substitution to pop up PTZ control options. Select any options and press "Enter" enter button to

pop up.

- For example, if [IRIS CTRL] is selected. Iris control menu will pop up. Use "Left" Cor "Right"
 button to control or + the value respectively.
- 3. To Recall Preset, Program Preset and Recall Patrol options, Press "Live Camera Control Buttons" to select preset numbers.

Use "**Up**", "**Down**" + buttons to select other PTZ camera control as example on the left.



Recording Menu



0

Event

FSTART RECORDING

START SCHEDULE REC

REC CAMERA

2. Using the "Up" () / "Down" + button to select recording and set recording camera

0

Live

RECORDING

0

Search

0

Menu

ENTER

ENTER

START RECORDING RECORDING CAMERA START SCHEDULE REC

- : Start recording operation
- : Select the camera for recording*
- : Start scheduled recording

*Note: REC CAMERA is not selectable when recording mode is set to FULL 100FPS, all cameras will be recorded under this recording mode.

Recording Menu→Recording Camera



- 1. Using the "Left" ^{*} / "Right" ^{*} button to select camera
- 2. Press the "Up" / "Down" + button to enable or disable camera for recording
- 3. Press "Enter" button to confirm the selection. Press the "Back" button to exit without saving any recording camera setting

F. Event Menu



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Ε.

OSD Menu Operation

TeleEye RX User Guide

- 1. Press the "**Event**" Event button to pop up the event menu
- 2. Using the "Up" [●] / "Down" [■] ↓ button to select a sub-menu
- 3. A selected sub-menu option will be pointed by a hand cursor and highlighted
- 4. Press "Enter" button to confirm the selection and pop up the sub-menu

EVENT STATUS	: Show event status
EVENT LOG	: Show the event log
CONNECTION LOG	: Show the remote connection log
SETTING LOG	: Show the setting log
OPERATION LOG	: Show the operation log

- If menu option end with [...] indicates sub-menu existing, you can always press "Enter"
 button to pop up the sub-menu.
- 2. Press the "**Back**" button back to previous menu and "**Live**" button to exit menu.

Event Menu→ Event Status

	EVEN			
	ALARM MOTION VIDEO LOSS DISK FULL OVERHEAT TAMPER POWER FAILURE HDD AVAILABLE CLEAR EVENT	1234 12 34 NORMAL NORMAL SYS/ARMSECSW FAIL ENTER		
ALARM MOTION VIDEO LOSS DISK FULL OVERHEAT SYSTEM FAILURE TAMPER	 Show the alarm status Show the motion status Show the video loss status Show the hard disk status Show the overheat status Show the system status Show the arm, security switch and system tamper status 			
POWER FAILURE HDD AVAILABLE CLEAR EVENT		ne status of power failure inp ne HDD ststus vent	but	

Event Menu→ Alarm Log

ALARM L	OG			
DATE	TIME	CHANNEL	STATUS	ACTION
03AUG05	12 : 45 : 18	4	RESET	
03AUG05	12:29:46	4	TGR	R- D - B-
02AUG05	09:50:33		ARM	
02AUG05	09:35:02	- 2	TAMPER	E
01AUG05	11:05:03		SS ON	
01AUG05	10:25:36	1	RESET	
01AUG05	10 : 10 : 10	1	TGR	- S- E - P
01AUG05	09:29:17		ENTRY	

DATE TIME CHANNEL STATUS : Show the date log

: Show the time log

: Show the event number (alarm / motion & videoloss only)

TUS : Show the status. Full description of status is shown as follow:

Display	Description
TGR	Event trigger
TAMPER	Alarm tampered
RESET	Event reset
CLEAR	User clear event status
ARM	System is armed
DISARM	System is disarmed
SS ON	Security switch turned on
SS OFF	Security switch turned off
ENTRY	Event trigger during entry delay time
EXIT	Event trigger during exit delay time

ACTION

: Show the event associated action

Display	Description
R	Recording
S	Switch
D	Dial back
Е	E-mail notification
М	SMS
В	Buzzer
Р	Recall Preset PTZ position
L	Associate camera to local monitor

Event Menu→ Connection Log

CONNECT DATE	ION LOG TIME	USER	REMARK	IP/PHONE NO	DEVICE	STATUS
22AUG05 22AUG05 21AUG05 21AUG05 20AUG05	12:45:18 12:29:46 09:50:33 09:35:02 11:05:03	ADMIN ADMIN ADMIN ADMIN ADMIN ADMIN	DIAL IN DIAL BACK	192.168.0.2 192.168.0.2 192.168.0.2 192.168.0.2 192.168.0.2 192.168.0.2	TCP / IP TCP / IP TCP / IP TCP / IP TCP / IP TCP / IP	DISCONNECTED CONNECTED DISCONNECTED CONNECTED DISCONNECTED
20AUG05 20AUG05 20AUG05	10 : 25 : 36 10 : 10 : 10 09 : 29 : 17	ADMIN ADMIN ADMIN	DIAL BACK DIAL BACK	192.168.0.2 192.168.0.2 192.168.0.2	TCP / IP TCP / IP TCP / IP	CONNECTED DISCONNECTED CONNECTED
DATE TIME USER REMA	RK	 : Show the date log : Show the time log : Show the user type connected to the video recording server through remote software : Show the connection triggered by user or dialback action DIAL IN→ Remote connect to video recording server DIAL BACK→ Transmitter connect to remote 				
IP/PHO DEVIO STATU			: Show the : Show com	IP or phone number nection method by connection status	er of the remo	te host

Event Menu→ Setting Log

SETTING DATE		OPERATION	CHANNEL	REMARK	DEVICE	IP / PHONE NO
03DEC05	12:45:18	ALARM SEN TYPE		NC	TCP / IP	192.168. 0. 2
			4			
03DEC05	12:29:46	MOTION	4	ENABLED	LOCAL	0. 0. 0. 0
02DEC05	09:50:33	RECORD MODE		CONTINUOUS	LOCAL	0. 0. 0. 0
02DEC05	09:35:02	VIDEOLOSS	- 2	ENABLED	LOCAL	0. 0. 0. 0
01DEC05	11:05:03	VIDEO FORMAT		NTSC	TCP / IP	192.168. 0. 2
01DEC05	10:25:36	ALARM TMR TYPE	1	DEOL	TCP / IP	192.168. 0. 2
01DEC05	10:10:10	ALARM	1	ENABLED	LOCAL	0. 0. 0. 0
01DEC05	09:29:17	CAMERA	3 -	INSTALLED	LOCAL	0. 0. 0. 0

DATE TIME OPERATION

CHANNEL

: Show the date log

: Show the time log

: Show the setting that was done by user (Please refer to the Appendix)

- : Show the channel for the setting, such as alarm sensor number, camera number
- : Show the set value of the setting
- : Show the setting that was done by which type of user
- : Show the IP or phone number for the remote user

REMARK DEVICE IP / PHONE NO

OSD Menu Operation

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Event Menu→ Operation Log

		TIME	OPERATION	DEVICE		
				DEVICE	IP / PHONE NO	
		12 : 45 : 18		TCP / IP	192.168. 0. 2	Ì
	03DEC05	12:29:46	START PLAYBACK		0. 0. 0. 0	
	D2DEC05	09:50:33	STOP RECORDING		0. 0. 0. 0	
	D2DEC05	09:35:02	START RECORDING		0. 0. 0. 0	
		11:05:03		LOCAL	0. 0. 0. 0	
		10:25:36	START PLAYBACK		192.168. 0. 2	
		10:10:10	STOP RECORDING		0. 0. 0. 0	
	01DEC05	09 : 29 : 17	START RECORDING	ICP/IP	192.168. 0. 2	
DATE TIME OPERATI	ON			e time le e operat	0	er (Pleas
			Append	,	1 1 1 1 1	
DEVICE			: Show th	e setting	g done by which	type o
IP / PHON	JE NO		: Show th	e IP or p	phone number for	or the r

Search Log

For each log, you can press "Enter" button to enter the log option, and press "Enter" Enter button in [TIME SEARCH] option to enter search log menu.

LOG OPTION		SEARCH LOG
TIME SEARCH EVENT PLAYBACK	 I DATE TIME SEARCH	<mark>20 SEP 2005</mark> 10 : 19 ENTER

The connection log contains the following options

DATE	: Set the search date
TIME	: Set the search time
SEARCH	: Search the nearest record according to the date and time

Playing corresponding footage from event Log

Event log playback supports user to playback the video directly from selected event log.

Event Log Playback Procedure :

1. Press "Event" Select [EVENT LOG]

option and press "Enter" button to view all kinds of event logs.

7	ALARM LOG	
	MOTION LOG	
	VIDEO LOSS LOG	
	SYSTEM TAMPER LOG	
	ARM DISARM TAMPER LOG	
	SECU. SWITCH TAMPER LOG	
	POWER FAILURE LOG	
	DISK USAGE LOG	
	OVERHEAT LOG	
	HDD AVAILABE	
	_	

EVENT LOG

2. For example, selecting [ALARM LOG] and press "Enter" button to enter alarm log menu.

ALARM LO DATE	OG TIME	CHANNEL	STATUS	ACTION
03AUG05	12 : 45 : 18	4	RESET	
03AUG05	12:29:46	4	TGR	R- D - B-
02AUG05	09:50:33		ARM	
02AUG05	09:35:02	- 2	TAMPER	E
01AUG05	11:05:03		SS ON	
01AUG05	10:25:36	1	RESET	
01AUG05	10:10:10	1	TGR	- S- E - P
01AUG05	09 : 29 : 17		ENTRY	

3. In the alarm log menu, press "Enter" button to pop up [LOG OPTION] menu. If there exists a corresponding recording event, [EVENT PLAYBACK] option will be included in the [LOG OPTION] menu for playback the video.

4. Select [EVENT PLAYBACK] and press "Enter" button to watch the playback for this event. LOG OPTION TI ME SEARCH EVENT PLAYBACK

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Advanced Operation

A. Install *Tele*Eye RX with Alarm Sensors and Relay Control Port

TeleEye RX supports up to 16 alarm ports in that order with tamper detection for connecting with alarm sensors, 4 additional input sensors and 4 relay ports for control. The definitions of alarm and relay control ports are shown in the following diagram.



Pin assignment for *Tele*Eye RX

Pin 1	ALARM 1	Pin 20	GND
Pin 2	ALARM 2	Pin 21	GND
Pin 3	ALARM 3	Pin 22	GND
Pin 4	ALARM 4	Pin 23	GND
Pin 5	ALARM 5	Pin 24	GND
Pin 6	ALARM 6	Pin 25	GND
Pin 7	ALARM 7	Pin 26	GND
Pin 8	ALARM 8	Pin 27	GND
Pin 9	ALARM 9	Pin 28	ARM/DISARM
Pin 10	ALARM 10	Pin 29	SECURITY SWITCH
Pin 11	ALARM 11	Pin 30	POWER FAILURE
Pin 12	ALARM 12	Pin 31	SYSTEM TAMPER
Pin 13	ALARM 13	Pin 32	ALARM 14
Pin 14	ALARM 15	Pin 33	ALARM 16
Pin 15	RELAY 0a	Pin 34	RELAY 0b
Pin 16	RELAY 1a	Pin 35	RELAY 1b
Pin 17	RELAY 2a	Pin 36	RELAY 2b
Pin 18	RELAY 3a	Pin 37	RELAY 3b
Pin 19	N/A		

B. Install *Tele*Eye RX with Tamper Circuit and External Resistors

*Tele*Eye RX supports tamper detection (DEOL and SEOL) on all alarm inputs including arm/disarm input, security switch input, system tamper and power failure input.

DEOL: Dual End of Line termination with NC and NO connection SEOL: Single End of Line termination with NC and NO connection NC/NO: Alarm and other input ports without tamper detection circuit connection

For example: By connecting the tamper circuit with DEOL, the circuit is in the normal close condition if the resistance between point A and B detects $1.2k\Omega$ (shown as below), whereas the circuit is in normal open condition if the resistance between point A and B (shown as below) detects $7.2k\Omega$. The resistance transition from $1.2k\Omega$ to $7.2k\Omega$ is generated by an alarm tamper event for normal close circuit. The setup configuration of those alarms and input ports are shown in the following diagram. The circuit debouncing time between each sensor is 20 millisecond.

Dual End of Line Configuration



Normal Close (NC)



Normal Open (NO)

Term	Status	Description
S/C	TAMPER	Wire short (point A and B)
LoZ	NORMAL	Sensor drive output close (point B and C)
HiZ	ALARM	Sensor drive output open (point B and C)
O/C	TAMPER	Wire open (point A and B)

Wire short (point A and B)			
t B and			
t B and			

Single End of Line Configuration



Without Tamper Detection Circuit Configuration





LEGEND					
NO	Normally Open Alarm				
NC	Normally Closed Alarm				
O/C	Open Circuit				
S/C	Short Circuit				
LoZ	Low Impedance				
HiZ	High Impedance				

Notes:

The table below shows the summary between the resistance network and the condition result. Note that this table is used as a reference. There may be a 10% tolerance for the resistance value in the below table.

Install TeleEye RX with Tamper Circuit and External Resistors

Resistance (Ω)						
Condition	0~400	401~2780	2781~29.5k	29.5k~Infinity		
DEOL (Normal Close)	Tamper Short	Normal (Close)	Alarm (Open)	Tamper Open		
DEOL (Normal Open)	Tamper Short	Alarm (Close)	Normal (Open)	Tamper Open		
SEOL (Normal Close)	Tamper Short	Normal (Close)	Alarm (N/A)	Alarm (Open)		
SEOL (Normal Open)	Alarm (Close)	Normal (Open)	Alarm (N/A)	Tamper Open		
NC without tamper	Normal (Close)	Alarm (N/A)	Alarm (N/A)	Alarm (Open)		
NO without tamper	Alarm (Close)	Alarm (N/A)	Alarm (N/A)	Normal (Open)		

Alarm (N/A): Alarm is not applicable.
C. Throughput Control

Throughput control function can limit the video recording server output data rate.

Throughput Control Setup Procedure

1. Press "**Menu**" button, select [**SETUP**]

option and press "Enter" [•] button to enter [SETUP] sub menu. Select [CONNECTION]

option and press "Enter" Enter button to show connection setting menu. Select [THROUGHPUT] option to enter the throughput control menu.

2. Choose [LAN STREAM], [BROADBAND STREAM] and [NARROWBAND STREAM] to select the data rate of respective connection.

 ▼ THROUGHPUT
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CONNECTION

TCP / IP

MODEM

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D. Event Handling

TeleEye RX video recording server supports 10 events and their icons are as follows.



TeleEye RX supports 10 actions which can be activated by any events as above.

- 1. Recording
- 2. Switch
- 3. Dial back
- 4. Email
- 5. SMS
- 6. Buzzer
- 7. Event LED
- 8. Live Camera
- 9. PTZ

10.Spot Alarm (Only supported by RX 368_V2 / RX328 / RX 3616_V2 / RX3216)

Event and Action Icons in Local CCTV Monitor

The icons of the 10 events are shown as above. If an event is being triggered, its respective icon will be flashing on the top right corner (for events: arm/disarm, security switch, alarm, power failure, system tamper) or next to the camera name (for events: motion, video loss). If an event has been triggered before user clear, the icon will remain static on its original position.

1. Arm/Disarm

Arm/Disarm 🕑 🗵

Arm/Disarm input is used for enhancing security level of the surveillance area. This input introduces the concept of 3 zone types of alarm, fire zone, normal and entry exit zone.

Armed 🗹

If the system is armed, alarm sensor in normal zone type can be triggered immediately if someone triggers the sensor. It is usually used when there is no operator at surveillance area.

Disarmed 🔀

If the system is disarmed, alarm events detected from sensors will not result in an alarm except the fire zone type alarm and arm/disarm tamper. If there are operators at surveillance area, it is usually disarmed.

Arm/Disarm Tamper Type

Arm/Disarm tamper event triggers if someone cuts the wire between the arm/disarm input and the video recording server. This event can be triggered immediately no matter which the zone is. Arm/Disarm tamper type has choice of none, SEOL and DEOL.

Arm State

The arm/disarm input circuit type is normal close (NC). When the state of the circuit is close, it indicates disarm of *Tele*Eye RX. Otherwise, when the state of the circuit is open, it indicates arm of *Tele*Eye RX. The arm/disarm input circuit type is normal open (NO). When the state of the circuit is open, it indicates disarm of *Tele*Eye RX. Otherwise, when the state of the circuit is close, it indicates arm of *Tele*Eye RX.

Physical Configuration for Arm/Disarm

The arm/disarm input and ground of *Tele*Eye RX video recording server needs to connect to a control unit which is commonly a switch or password panel for arm/disarm input.



Arm/Disarm Setup Procedure

1. Press "Menu" button, select [SETUP] option and press "Enter" enter button to enter [SETUP] sub-menu. Select [EVENT HANDLER] option and press "Enter" enter button.

	VIDEO	
	RECORDING	
	SWITCHES	
	DATE / TIME	
	CONNECTION	
7	EVENT HANDLER	
	TRANSMITTER	
	PASSWORD	
	USER ACCOUNT	
	RX-SE	
	SETTING IMPORT/EXPORT	
	RESTORE FACTORY SETTING	ENTER

EVENT HANDLER

. . .

ARM / DISARM

ALARM MOTION VIDEO LOSS SYSTEM TAMPER POWER FAILURE DISK USAGE OVERHEAT HDD AVAILABLE

SECURITY SWITCH

7

SETUP MENU

2. Select [ARM/DISARM] option and press "Enter"

- 3. Select [ENABLED] option and use "Left" [∞] or "**Right**" [∞] button to enable (i.e. set the value to [YES]) the arm/disarm function.
- Select [ARM STATE] option and use "Left" ^{*}
 or "Right" ^{*} button to choose arm state according to the configuration of *Tele*Eye RX arm/disarm control circuit type.

ARM / DISARM	
☑ ENABLED ARM STATE TAMPER TYPE ASSOCIATE SWITCH TAMPER EVENT ACTION	YES CLOSE NONE NO
Д	

ARM / DISARM	
ENABLED	YES
ARM STATE	CLOSE
TAMPER TYPE	NONE
ASSOCIATE SWITCH	NO
TAMPER EVENT ACTION	

5. Select [TAMPER TYPE] option and use "Left"
Or "Right" O^{*} button to choose arm/disarm tamper circuit type according to the configuration of *Tele*Eye RX arm/disarm tamper circuit type.



6. Select [ASSOCIATE SWITCH] option and use "Left" Or "Right" South to select [YES] and enable switch 1 only for arm/disarm associate switch. Switch 1 will be ON when *Tele*Eye RX is armed. Switch 1 will be OFF when *Tele*Eye RX is disarmed. Switch 1 cannot be activated by other events anymore if it is an associate switch of arm/disarm.

ARM / DISARM ENABLED ARM STATE TAMPER TYPE ASSOCIATE SWITCH TAMPER EVENT ACTION	YES CLOSE DEOL YES
ARM / DISARM	
ENABLED ARM STATE TAMPER TYPE ASSOCIATE SWITCH IF TAMPER EVENT ACTION	YES CLOSE DEOL YES

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7. Select [TAMPER EVENT ACTION] option and

press "Enter" button to select arm/disarm tamper action. (For action, please refer to Event Action Part in Advance Operation Section of User Guide)

2. Security Switch

Security Switch 😐 🕒

It is an input to the video recording server for wiring a security switch. The purpose of the security switch is to terminate the exit delay for exit zone alarm. If the security switch is on and the system is armed, all exit delay will be terminated. If the security switch is off and an entry alarm is triggered, entry delays will start.

Security Switch Tamper Type

Security switch tamper event will be triggered if someone cuts the wire between the security switch input and the video recording server. This event behaves as fire zone type that can be triggered once the wire is being cut. Arm/Disarm tamper type has choice of none, SEOL and DEOL.

On State

The security switch input circuit type is normal close (NC). When the state of the circuit is close, it indicates security switch off of *Tele*Eye RX. Otherwise, when the state of the circuit is open, it indicates security switch on of *Tele*Eye RX. The security switch input circuit type is normal open (NO). When the state of the circuit is opened, it indicates security switch off of *Tele*Eye RX. Otherwise, when the state of the circuit is closed, it indicates security switch on of *Tele*Eye RX.

Physical Configuration for Security Switch

The security switch input and ground of *Tele*Eye RX video recording server needs to connect to a control circuit which is commonly the lock of the surveillance area for security switch input.



Security Switch Setup Procedure

1. Press "Menu" . button, select [SETUP] option

and press "Enter" Enter button to enter [SETUP] sub menu. Select [EVENT HANDLER] option and press "Enter" Enter button.

Select [SECURITY SWITCH] option and press
 "Enter" button to show security switch setting menu.

- 3. Select [ENABLED] option and use "Left" [↓] or "**Right**" [↓] button to enable (i.e. set the value to [YES]) the security switch function.
- Select [ON STATE] option and use "Left" ^{*}O or "Right" ^{*} button to choose on state according to the configuration of *Tele*Eye RX security switch control circuit type.
- 5. Select [TAMPER TYPE] option and use "Left"
 or "Right" Subtraction to choose security switch tamper circuit type according to the configuration of *Tele*Eye RX security switch tamper circuit type.



- 6. Select [ASSOCIATE SWITCH] option and use "Left" Or "Right" button to select [YES] and enable switch 2 only for security switch associate switch. Switch 2 will be ON when the security switch is on. Switch 1 will be OFF when the security switch is off. Switch 2 cannot be activated by other events anymore if it is an associate switch of security switch.
- 7. Select **[TAMPER EVENT ACTION]** option and press "**Enter**" Enter button to select security switch tamper action. (For action, please refer to Event Action Part in Advance Operation Section of User

SECURITY SWITCH ENABLED YES ON STATE CLOSE TAMPER TYPE DEOL ASSOCIATE SWITCH YES TAMPER EVENT ACTION ...



3. Alarm

Guide)

Alarm 🖲

It is an input to the video recording server from external alarm sensors. Alarm can be used to detect many events occur at the surveillance area, such as fire and illegal entering by someone. The alarm event supports BS 8418:2003 which has arm/disarm and security switch functions.

Sensor Tamper Type

Alarm tamper event will be triggered if someone cuts the wire between the alarm input and the video recording server. This event behaves as fire zone type that can be triggered once the wire is being cut. Alarm tamper type has choice of none, SEOL and DEOL.

Sensor Type

The alarm sensor input circuit type is normal close (NC). When the state of the circuit is closed; it indicates normal of *Tele*Eye RX. Otherwise, when the state of the circuit is opened, it indicates alarm trigger of *Tele*Eye RX. The alarm sensor input circuit type is normal open (NO). When the state of the circuit is open; it indicates normal of *Tele*Eye RX. Otherwise, when the state of the circuit is closed, it indicates alarm trigger of *Tele*Eye RX.

Zone Type

All alarm sensors can be associated with zone types if ARM/DISARM input is installed.

Normal Zone

This zone allows alarms to be triggered after armed.

Fire Zone

This zone allows alarms to be triggered no matter which arm state of the system is, i.e. armed or disarmed. It is suitable for installation of fire detectors

Entry/Exit Zone

This zone allows user to set the delay time for entering or leaving the surveillance area without triggering any alarm event. If alarm recording action is enabled, recording starts at entry or exit time throughout the delay.

Event Handling

Example of Entry/Exit Zone WITH Security Switch Usage For Entry Zone:



The entry delay is the period of time between entering the surveillance zone and reaching the video recording server. In order to disarm the system for maintenance or repair, user / installer needs to turn off the security switch and enter the surveillance zone. However, the delay time starts from the 1st trigger by the 1st alarm sensor (i.e. Alarm 4). Note that if user enables recording action, recording action is automatically activated during entry delay.

The detail procedure is as below:

- 1) user turns off security switch
- 2) the alarm is set at entry delay
- 3) the 1st trigger is made by Alarm 4 (i.e. user enters the surveillance zone and the entry delay time begins)
- 4) 2^{nd} , 3^{rd} and 4^{th} trigger are made and each entry delay starts respectively
- 5) user disarms the system for maintenance

For example: If the time for going from security switch to video recording server is about 8 minutes, Delay 1 should be longer than 8 minutes, while Delay 2 should be longer than the time for going from security switch to Alarm 2, and so on.

For Exit Zone:



The exit delay is the period of time for leaving a surveillance zone without making false alarm (i.e. Alarm 1, Alarm 2, Alarm 3 and Alarm 4). The purpose is to let the user / installer have enough time to leave the surveillance zone after the video recording server is armed. User / installer can set the delay time for each alarm.

The detail procedure is as below:

- 1) user arms the system
- 2) the alarm is set at exit delay
- the 1st trigger is made by Alarm 1 (i.e. user leaves the surveillance zone and the exit delay time begins)
- 4) 2^{nd} , 3^{rd} and 4^{th} triggers are made and each exit delay starts respectively
- 5) User turns on the security switch or waits for any alarm exit delays to expire.

For example, if the time for leaving the surveillance zone is about 8 minutes, user should adjust the delay time so that Delay 1 = leaving time between video recording server and Alarm 1, Delay 2 = leaving time between video recording server and Alarm 2, Delay 3 = leaving time between video recording server and Alarm 3 and Delay 4 = 8 minutes. The alarm will be activated after the exit delay expired. Note that if user enables recording action, recording action is automatically activated during exit delay.

Example of Entry/Exit Zone WITHOUT Security Switch Usage For Entry Zone:



The entry delay is the period of time between entering the surveillance zone and reaching the video recording server. In order to disarm the system for maintenance or repair, user / installer enters the surveillance zone, and the delay time starts from the 1st trigger by the 1st alarm sensor (i.e. Alarm 4) automatically. Note that if user enables recording action, recording action is automatically activated during entry delay.

The detail procedure is as below:

- 1) the alarm is at entry delay
- 2) the 1st trigger is made by Alarm 4 (i.e. user enters the surveillance zone and the entry delay time begins)
- 3) 2^{nd} , 3^{rd} and 4^{th} trigger are made and each entry delay starts respectively
- 4) user disarms the system for maintenance

For example: If the time for going from Alarm 4 to video recording server is about 8 minutes, Delay 1 should be longer than 8 minutes, while Delay 2 should be longer than the time for going from security switch to Alarm 2, and so on.

For Exit Zone :



The exit delay is the period of time for leaving a surveillance zone without making false alarm (i.e. Alarm 1, Alarm 2, Alarm 3 and Alarm 4). The purpose is to let the user / installer have enough time to leave the surveillance zone after the video recording server is armed. User / installer can set the delay time for each alarm.

The detail procedure is as below:

- 1) user arms the system
- 2) the alarm moves to exit delay
- the 1st trigger is made by Alarm1 (i.e. user leaves the surveillance zone and the exit delay time begins)
- 4) 2^{nd} , 3^{rd} and 4^{th} trigger are made and each exit delay starts respectively
- 5) user waits for any alarm exit delay to expire.

For example, if the time for leaving the surveillance zone is about 8 minutes, user should adjust the delay time so that Delay 1 = leaving time between video recording server and Alarm 1, Delay 2 = leaving time between video recording server and Alarm 2, Delay 3 = leaving time between video recording server and Alarm 3 and Delay 4 = 8 minutes. The alarm will be activated after the exit delay expired. Note that if user enables recording action, recording action is automatically activated during exit delay.

Different Combination Cases of Arm/Disarm, Security Switch and Alarm for the 3 Zone Type

	Initial State					
Arm	Security Switch	Alarm	Step 1	Step 2	Step 3	Result
	Fire Zone					
Arm	On	No trigger	Trigger alarm	\	\	Alarm trigger
Arm	Off	No trigger	Trigger alarm	\	\	Alarm trigger
Arm	Uninstall	No trigger	Trigger alarm	\	\	Alarm trigger
Disarm	١	No trigger	Trigger alarm	\	\	Alarm trigger
Uninstall	١	No trigger	Trigger alarm	/	/	Alarm trigger
Uninstall	Uninstall	No trigger	Trigger alarm	\	١	Alarm trigger
			Norr	mal		
Arm	On	No trigger	Trigger alarm	١	١	Alarm trigger
Arm	Off	No trigger	Trigger alarm	\	\	Alarm trigger
Arm	Uninstall	No trigger	Trigger alarm	\	\	Alarm trigger
Disarm	١	No trigger	Trigger alarm	\	\	No alarm trigger
Uninstall	١	No trigger	Trigger alarm	\	\	Alarm trigger
Uninstall	Uninstall	No trigger	Trigger alarm	١	١	Alarm trigger
_			Entry / Ex	kit Zone		
Arm	On	No trigger	Trigger alarm	١	١	Alarm trigger
				Trigger alarm.	Security switch on. Exit delay ends. Recording stops	Alarm can be triggered any time after that
Disarm	Off	No trigger	Arm	Exit delay starts. Recording starts (if recording action is enabled)	Security switch off. Exit delay ends after the preset exit time value. Recording stops	Alarm can be triggered any time after that

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	Initial State					
Arm	Security Switch	Alarm	Step 1	Step 2	Step 3	Result
			Entry /	Exit Zone		
				Trigger alarm. Entry delay	Disarm	No alarm trigger. Recording stops
Arm	On	No trigger	Security switch off	starts. Recording starts (if recording action is enabled)	Arm	Alarm is triggered Recording does not stop unless user disarm the system
Disarm	Uninstall	No trigger	Arm	Trigger alarm. Exit delay starts. Recording starts (if recording action is enabled)	Exit delay ends after the preset exit time value. Recording stops	The system will enter entry delay automatically after next alarm trigger
			Trigger alarm. Entry delay starts.	Disarm	١	No alarm trigger. Recording stops.
Arm	Uninstall	No trigger	Recording starts (if recording action is enabled)	Arm	١	Alarm is triggered. Recording does not stop unless user disarm the system.
Disarm		No trigger	Trigger alarm	١	١	No alarm trigger
Uninstall		No trigger	Trigger alarm	١	\	Alarm trigger
Uninstall	Uninstall	No trigger	Trigger alarm	\	\	Alarm trigger

Physical Configuration for Alarm

The alarm input and ground of *Tele*Eye RX video recording server need to connect to various kinds of sensors which are commonly installed at entrance or special part of the surveillance area.

Surv	emance area.		
		Alarm Input Alarm	
		Ground Sensor	
Alar	m Setup Procedure	SETUP MENU	
1.	Press "Menu" button, select [SETUP] option and press "Enter" button to enter [SETUP] sub menu. Select [EVENT HANDLER] option and press "Enter" enter button.	VIDEO RECORDING SWITCHES DATE / TIME CONNECTION FEVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT RX-SE SETTING IMPORT/EXPORT RESTORE FACTORY SETTING ENTE	R
2.	Select [ALARM] option and press " Enter " button to show the alarm selection menu. Select appropriate alarm and press " Enter " button to enter the alarm setting menu.	EVENT HANDLER ARM / DISARM SECURITY SWITCH F ALARM MOTION VIDEO LOSS SYSTEM TAMPER POWER FAILURE DISK USAGE OVERHEAT HDD AVAILABLE	
3.	Select [ENABLED] option and use "Left" C or " Right " S button to enable (i.e. set the value to [YES]) alarm.	SENSOR NAME ALARM	
4.	Select [SENSOR TYPE] option and use "Left" Or "Right" D button to choose sensor type according to the configuration of <i>Tele</i> Eye RX alarm sensor control circuit type.	SENSOR NAME ALARM	

Select [SENSOR TAMPER TYPE] option and 5. use "Left" **Cor** "Right" **button** to choose alarm sensor tamper circuit type according to the configuration of *Tele*Eye RX alarm sensor tamper circuit type.

ENABLED SENSOR NAME SENSOR TYPE SENSOR TAMPER TYPE ZONE TYPE ENTRY DELAY EXIT DELAY ACTION	YES ALARM 1 NC DEOL NORMAL 0 SEC 0 SEC
Ţ	
ALARM 1 SETTING	3

ENABLED

7

SENSOR NAME

ZONE TYPE ENTRY DELAY EXIT DELAY

ACTION

SENSOR TYPE SENSOR TAMPER TYPE

- Select [ZONE] option and use "Left" ^{*} 6. "Right" button to choose zone type. Select [ENTRY DELAY], [EXIT DELAY] option and use "Left" **Cor** "Right" **button** to choose entry and exit delay
- Select [ACTION] option and press "Enter" Enter 7. button to select alarm trigger or tamper action. (For action, please refer to Event Action Part in Advance Operation Section of User Guide)

ALARM 1	SETTING
ENABLED SENSOR NAME SENSOR TYPE SENSOR TAMPER ZONE TYPE ENTRY DELAY EXIT DELAY EXIT DELAY ACTION	YES ALARM 1 NC TYPE DEOL NORMAL 0 SEC 0 SEC



Page 118	
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YES

NC

DEOL

ALARM 1

NORMAL

0 SEC SEC

Motion

Motion 🗎

Motion detection can be triggered when motion occurs on the camera. Motion detection has different sensitivity levels. For motion event on each video input channel, it depends on the motion of selected area. User should set up the select motion areas and sensitivity. Motion detection has generally 4 options: high, middle, low and custom. Custom option allows user to select the sensitivity level and area by themselves.



Motion Detection Example

If motion detection is enabled, object movement is captured by the camera as shown below.

The figure on the left shows motion detection. The normal display area is the selected motion detection area. The crossed area cannot detect any motion. Motion block is activated when there is any movement on the camera.

Sensitivity Level

The level definition of motion detection is due to the luminance level difference between current and reference field. The level range is 1 to 10, 1 is the most sensitive and 10 is the least sensitive



Area

In motion detection, one selected motion block is divided into four sub-blocks. The definition of area is how many sub-blocks have detected motion in order to trigger a motion event. The range of area option is 1 to 4. More blocks are selected, the motion trigger sensitivity decreases.

Motion Setup Procedure

Press "Menu" ^o button, select [SETUP] option 1.

and press "Enter" button to enter [SETUP] sub menu. Select [EVENT HANDLER] option

and press "Enter" Enter button.

	SETUP MENU	
SWIT DATE CON EVEN TRAI PASS USEI RX-S SET	O ORDING CHES E / TIME NECTION NT HANDLER NSMITTER SWORD R ACCOUNT E TING IMPORT/EXPORT	
RES	TORE FACTORY SETTING	ENTER

2. Select [**MOTION**] option and press "**Enter**" Enter button to show the motion selection menu. Select

motion and press "Enter" [•] button to enter the motion setting menu.

EVENT HANDLER	
ARM / DISARM	
SECURITY SWITCH	
ALARM	
	•••
VIDEO LOSS SYSTEM TAMPER	
POWER FAILURE	
DISK USAGE	
OVERHEAT	
HDD AVAILABLE	••••

Л

MOTION DETECTOR SETTING

ENABLED

ACTION

7

MOTION 1 SETTING

3. Enable the motion setting. Select [MOTION DETECTIOR SETTING] option and press

"Enter" Enter button to setup motion detection setting.

- Setting motion detection as follow: 4. DESELECT : deselect motion area SELECT : select motion area **DESELECT ALL :** clear all motion block SELECT ALL : select all motion block RESTORE : restore previous motion setting **SENS** : sensitivity option : LOW, MID, HIGH, CUSTOM LEVEL : customize level sensitivity AREA : customize spatial sensitivity OK
 - : finish, save the setting and exit the detection menu
- *Note: option position will be different in RX368_V2 / RX328 / RX3616_V2 / RX3216
- Select [ACTION] option and press "Enter" Enter button to select alarm trigger or tamper action. (For action, please refer to Event Action Part in Advance Operation Section of User Guide)







NO

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5. Video Loss

Video Loss 🖳

2.

Video loss can be triggered when the video channel input disappears and happens if the video recording server receives no signal from the camera. The local CCTV monitor displays a blue screen for video loss condition.

Video Loss Setup Procedure

1. Press "Menu" button, select [SETUP] option

and press "Enter" Enter button to enter [SETUP] sub menu. Select [EVENT HANDLER] option and

Select [VIDEO LOSS] option and press "Enter"

Enter button to show the camera selection menu.

Select a camera and press "Enter" Enter button to

enter the video loss setting menu.

press "Enter" Enter button.

SETUP MENU	
VIDEO RECORDING SWITCHES DATE / TIME CONNECTION F EVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT	
RX-SE SETTING IMPORT/EXPORT RESTORE FACTORY SETTING	ENTER
Ų	

ARM / DISARM SECURITY SWITCH ALARM MOTION VIDEO LOSS SYSTEM TAMPER DISK USAGE OVERHEAT HDD AVAILABLE	EVENT HANDLER	
	SECURITY SWITCH ALARM MOTION VIDEO LOSS SYSTEM TAMPER POWER FAILURE DISK USAGE OVERHEAT HDD AVAILABLE	

- 3. Select [ENABLED] option and use "Left" **C** or "Right" **S** button to enable (i.e. set the value to [YES]) video loss event handler.
- 4. Select **[ACTION]** option and press "**Enter**" Enter button to select alarm trigger or tamper action. (For action, please refer to Event Action Part in Advance Operation Section of User Guide)



6. System Tamper

System Tamper Input 🔳

It is an input to the video recording server for wiring a tamper switch of the external cabinet outside the video recording server and its accessories. The purpose of system tamper event is to prevent someone to break into the cabinet and destroy the video recording server.

Sensor Type

The system tamper input circuit type is normal close (NC). When the state of the circuit is closed, it indicates normal of *Tele*Eye RX. Otherwise, when the state of the circuit is opened, it indicates system tamper of *Tele*Eye RX. The system tamper input circuit type is normal open (NO). When the state of the circuit is opened, it indicates normal of *Tele*Eye RX. Otherwise, when the state of the circuit is close, it indicates system tamper of *Tele*Eye RX.

Physical Configuration for System Tamper

The system tamper input and ground of *Tele*Eye RX video recording server need to connect to an external cabinet which is used for protecting the video recording server and its accessories

Exter	nal cabinet	
(<u>69</u> 2)	0 0 0 0	System Tamper Input
		Ground

System Tamper Setup Procedure

SETUP MENU 1. Press "Menu" [•] button, select [SETUP] option VIDEO RECORDING SWITCHES and press "Enter" Enter button to enter [SETUP] DATE / TIME sub menu. Select [EVENT HANDLER] option CONNECTION **FEVENT HANDLER** TRANSMITTER and press "Enter" Enter button. PASSWORD **USER ACCOUNT BX-SE** SETTING IMPORT/EXPORT **RESTORE FACTORY SETTING** ENTER 2. Select [SYSTEM TAMPER] option and press **EVENT HANDLER** ARM / DISARM "Enter" Enter button to show the system tamper SECURITY SWITCH ALARM MOTION menu and press "Enter" Enter button to enter the VIDEO LOSS System Tamper setting menu. SYSTEM TAMPER **POWER FAILURE** DISK USAGE **OVERHEAT** HDD AVAILABLE

- 3. Select [ENABLED] option and use "Left" ^{*}O or "Right" ^{*} button to enable (i.e. set the value to [YES]) System Tamper event handler.
- 4. Select [SENSOR TYPE] option and use "Left"
 or "Right" O^{*} button to choose sensor type according to the configuration of *Tele*Eye RX system tamper control circuit type
- 5. Select [ACTION] option and press "Enter" button to select system tamper action. (For action, please refer to Event Action Part in Advance Operation Section of User Guide)

7. Power Failure

Power Failure Input 🛃

It is an input to the video recording server typically used for wiring the output signal pin from an **uninterruptible power supply (UPS)**.

Sensor Type

The power failure input circuit type is normal close (NC). When the state of the circuit is closed, it indicates normal of *Tele*Eye RX. Otherwise, when the state of the circuit is opened, it indicates power failure of *Tele*Eye RX. The power failure input circuit type is normal open (NO). When the state of the circuit is opened, it indicates normal of *Tele*Eye RX. Otherwise, when the state of the circuit is closed, it indicates power failure of *Tele*Eye RX.

Physical Configuration for Power Failure Input

The power failure input and ground of *Tele*Eye RX video recording server need to connect to a universal power supply circuit UPS, so the video recording server can detect any power failure condition.

Note: The UPS circuit setup below is used as an example. Not all UPS have signal output. Some UPS have self-test for a period of time. Their signal output may toggle during test.







SYSTEM TAMPER	
ENABLED	YES
SENSOR TYPE	NC
☞ ACTION	

setting menu.

2.

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Power Failure Setup Procedure

 Press "Menu" button, select [SETUP] option and press "Enter" button to enter [SETUP] sub menu. Select [EVENT HANDLER] option and press "Enter" enter button.

Select [POWER FAILURE] option and press

"Enter" with button to enter the power failure

SETUP MENU	
VIDEO	
RECORDING	
SWITCHES	
DATE / TIME	
CONNECTION	
F EVENT HANDLER	
TRANSMITTER	
PASSWORD	
USER ACCOUNT	
RX-SE	
SETTING IMPORT/EXPORT	
RESTORE FACTORY SETTING	ENTER

ARM / DISARM SECURITY SWITCH ALARM MOTION VIDEO LOSS SYSTEM TAMPER DISK USAGE OVERHEAT HDD AVAILABLE	EVENT HANDLER	
	SECURITY SWITCH ALARM MOTION VIDEO LOSS SYSTEM TAMPER IF POWER FAILURE	· · · · · · · · · · ·

- 3. Select [ENABLED] option and use "Left" ^{*}O or "Right" ^{*} button to enable (i.e. set the value to [YES]) power failure event handler.
- 4. Select [SENSOR TYPE] option and use "Left"
 Or "Right" button to choose sensor type according to the configuration of *Tele*Eye RX power failure control circuit type
- 5. Select [ACTION] option and press "Enter" Enter button to select power failure action. (For action, please refer to Event Action Part in Advance Operation Section of User Guide)



8. Disk Usage 토

Disk usage event will be triggered if hard disk usage exceeds user specified warning level. The warning level consists of 6 levels : 50%, 60%, 70%, 80%, 90% and 100%. If the hard disk usage achieves the warning level, the disk usage event will be triggered.

Disk Usage Event Setup Procedure :

1. Press "Menu" button, select [SETUP]

option and press "Enter" ^{Enter} button to enter [SETUP] sub menu. Select [EVENT

HANDLER] option and press "Enter" Enter button. Select [DISK USAGE] option and

press "Enter" Enter button to show disk usage setting menu.

 Select [ENABLED] and set [YES] to enable disk usage event. Select [WARNING LEVEL] to choose the suitable disk usage warning level. Select [ACTION] option and press "Enter"



DISK USAGE EVEN	Г
I ENABLED WARNING LEVEL ACTION	YES 50%

Enter button to select disk usage action.

9. Overheat !

Overheat event will be triggered if video recording server gets overheat.

Overheat Event Setup Procedure :

1. Press "Menu" solution, select [SETUP]

option and press "Enter" button to enter [SETUP] sub menu. Select [EVENT

HANDLER] option and press "Enter" Enter button. Select [OVERHEAT] option and

press "Enter" Enter button to show overheat setting menu.

2. Select [ENABLED] and set [YES] to enable overheat event. Select [ACTION]

option and press "**Enter**" [•] button to select overheat action.

EVENT HANDLER	
ARM / DISARM SECURITY SWITCH ALARM MOTION VIDEO LOSS SYSTEM TAMPER	
POWER FAILURE DISK USAGE 了 OVERHEAT HDD AVAILABLE	· · · · · · ·

 \int

	OVERHEAT
ENABLED ACTION	YES

10. HDD Available

HDD available event will trigger when hard disk failure or hard disk change according to checklist.

HDD Available Event Setup Procedure :

1. Press "Menu" Dutton, select [SETUP]

option and press "Enter" ^{Enter} button to enter [SETUP] sub menu. Select [EVENT

HANDLER] option and press "Enter" Enter button. Select [HDD AVAILABLE] option

and press "Enter" ^{Enter} button to show overheat setting menu.

2. Select **[ENABLED]** and set **[YES]** to enable HDD available event. Select

[ACTION] option and press "Enter" Enter button to select overheat action.

- 3. Checklist will automatically update according to current system's hard disk combination when enable this event.
- Select [UPDATE CHECKLIST] to manually update hard disk check list. Or select [VIEW CHECKLIST] to view the current checklist. It will show the number of HDD to be checked.

EVENT HANDLER	
ARM / DISARM	
SECURITY SWITCH	
MOTION	
VIDEO LOSS	
SYSTEM TAMPER POWER FAILURE	
DISK USAGE	
OVERHEAT	
G HDD AVAILABLE	• • •

HDD AVAILABLE

E. Event Action

*Tele*Eye RX supports event actions such as Recording, Switch, Dialback, Email, Buzzer, Event LED, Live camera and PTZ when there is an event detected from alarm, tamper of alarm, motion, video loss, tamper of arm/disarm, tamper of security switch, power failure, disk usage, overheat and system tamper.

Event Action Setup Procedure

SETUP MENU Press "Menu" e button, select [SETUP] option VIDEO 1. RECORDING SWITCHES and press "Enter" Enter button to enter [SETUP] DATE / TIME CONNECTION sub menu. Select [EVENT HANDLER] option **EVENT HANDLER** TRANSMITTER and press "Enter" Enter button. PASSWORD USER ACCOUNT **RX-SE** SETTING IMPORT/EXPORT **RESTORE FACTORY SETTING** ENTER **EVENT HANDLER** Select any event option and press "Enter" Enter 2. ARM / DISARM button to enter the setting menu. SECURITY SWITCH ALARM MOTION VIDEO LOSS SYSTEM TAMPER POWER FAILURE **DISK USAGE OVERHEAT** HDD AVAILABLE Select [ENABLED] option and use "Left" 3. XXXXXXX ACTION or "**Right**" button to enable (i.e. set the **RECORDING** SWITCH value to **[YES]**) event handler. DIALBACK EMAIL Select [ACTION] option and press "Enter" Enter SMS 4. BUZZER button to enter the action menu. EVENT LED LIVE CAMERA PTZ SPOT ALARM

1. Recording

Recording

If an event is triggered, recording can record the video content at user selected camera with selected recording mode.

Pre-Alarm Recording

Pre-alarm recording allows video recording before an event is triggered. The period of pre-alarm recording is at least 1 minute (not more than 2 minutes) before the event trigger. User can find that there is at least 1 minute more video content in **[RECORDING LOG MENU]** before event trigger.

Duration After Event Clear

After event is reset, the recording action will stop after the duration time.

Recording Mode

Event recording provides 2 recording mode, 1 frame per second (1 FPS) and continuous mode. In 1 FPS mode, the recording frame rate is less, so the storage size is smaller. In continuous mode, the recording frame rate depends on the number of recording camera and more than 1 FPS, so the storage size is larger.

Recording Action Setup Procedures

1. In the action menu, select **[RECORDING]**

option and press "Enter" Enter button to enter the recording action setting menu.

XXXXXXX ACTION		

- Select [ENABLED] option and use "Left" ^{*}
 or "Right" ^{*} button to enable (i.e. set the value to [YES]) recording action.
- Select the [DURATION AFTER EVENT CLEAR] and [RECORDING MODE] options and uses the "Left" Or "Right" OF button to choose the suitable setting.
- 4. Select [**RECORDING CAMERA**] option and press "**Enter**" button to enter the recording camera menu.



- 5. Use the "Left" ^{*}O or "Right" ^{*} button to select camera and press the "Up" ^o or "Down"
 ^{*} button to enable or disable recording camera.
- 6. Press "Enter" Enter button to save the camera setting and go back to recording action menu.
- You can press "Live" button to exit OSD menu or press "Back" button to enter action menu again.



2. Switch

Switch allows video recording server to control 4 external relays which are defined by user.

Switch Type

Switch has 2 types. They are latching or push-button type. In latching type, the switch turns on for a period of time. In push-button type, the switch turns on and off after 1 second.

Latching Duration

The latch duration period is the time for turning on the switch.

Action Delay

The delay is the period of time after turning off the switch before next turning on.

Latching Duration and Action Delay Example

For latch type switch, set latch duration to be 10sec and action delay to be 10sec. If an event is triggered, the status of the switch is shown on the right. $\begin{array}{c} \text{On} & & \\ & & \\ & & \\ & 10s \end{array} & \begin{array}{c} & \\ & 10s \end{array} & \begin{array}{c} & \\ & 10s \end{array} & \begin{array}{c} & \\ & 10s \end{array} \end{array} \end{array}$

For push-button type switch, set latch duration 10sec and action delay 10sec. If an event is triggered, the status of the switch is shown on the right.



YES

Switch Action Setup Procedure

1. In the action menu, select [SWITCH] option and

press "**Enter**" Enter button to enter the switch action setting menu.

XXXXXXX ACTION		
RECORDING SWITCH DIALBACK EMAIL SMS BUZZER EVENT LED LIVE CAMERA PTZ SPOT ALARM		

IJ

ENABLED

SWITCHES ENABLED GENERAL SWITCH SETTING

XXXXXXX SWITCH

- Select [ENABLED] option and use "Left" *
 or "Right" *
 button to enable (i.e. set the value to [YES]) switch action.
- 3. Select [SWITCHES ENABLED] option and press "Enter" button to enable or disable the switches.
- 4. Use the "Left" ^{*} or "Right" ○^{*} button to select switch and press the "Up" or "Down"
 button to enable or disable switch.
- 5. Press "Enter" Enter button to save the selection setting and go back to switch action menu.

6. Select [GENERAL SWITCH SETTING]

option and press "Enter" [•] button to enter the switch setting menu.

- 7. Select [SWITCH (No.)] option and press "Enter" Enter button to enter the switch (No.) setting menu.
- 8. Select [NAME] option and press "Enter" Enter button to edit the name of switch (No.).
- 9. Select **[TYPE]** option and press the "**Left**" **C** or "**Right**" **S** button to choose the switch type.

Press the "**Back**" button to go back the general switch setting menu and save the setting.

ASSOCIATE SWITCH 1 - 3 -**GENERAL SWITCH SETTING** SWITCH SWITCH 2 3 SWITCH SWITCH LATCH DURATION 10 SEC ACTION DELAY 10 SEC SWITCH X SETTING **NAME** SWITCH X TYPE LATCHING

Password

Password

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- Select [LATCH DURATION] option and press the "Left" Or "Right" D button to choose the latch duration.
- Select [ACTION DELAY] option and press the "Left" Or "Right" D button to choose the switch action delay between each on/off.
- 12. You can press "Live" button to exit OSD menu or press "Back" button to enter action menu again.

3. Dialback

Dialback allows the video recording server to connect to one remote PC and displays live video if an event is triggered. Through the support for different connection methods, such as TCP/IP, modem, null modem and leased line modem. As a result, remote operator can recognize what situation is at the surveillance area.

Retry Duration

The retry duration is the period between each dialback retrial (in second).

Retry Count

The retry count is the number of dialback retrial if dialback fails.

Dialback Action Setup Procedure

1. Press "Menu" so button, select [SETUP]

option and press "Enter" button to enter [SETUP] sub menu. Select [EVENT

HANDLER] option and press "Enter"

button. Select an event and press "Enter" Enter button to show event setting menu. Enable the event, select [ACTION] and press "Enter"

Enter button, then select [DIAL BACK] and

press "Enter" button to enter dial back setting menu.

RECORDING SWITCH F DIALBACK EMAIL SMS	XXXXXXX ACTION		
BUZZEREVENT LEDLIVE CAMERAPTZSPOT ALARM	SWITCH DIALBACK EMAIL SMS BUZZER EVENT LED LIVE CAMERA PTZ		

GENER	AL SWITCH SE	TTING
SWITCH 1		
SWITCH 2		
SWITCH 3		
SWITCH 4		<u></u>
🕝 LATCH DUF	RATION	10 SEC
ACTION DE	LAY	10 SEC

2. Select [ENABLED] and set [YES] to enable dial back action. Select [GENERAL DIALBACK SETTING] option and press

"Enter" Enter button to select other dial back action settings.

3. Select [**RETRY DURATION**] or [**RETRY COUNT**] to choose dial back retry duration and retry count respectively. Select [**PHONE**

(No.)] and press "Enter" Enter button to input the dial back address for different connection methods.



PHONE/IP

TEST

4

XXXXXXX DIAL BACK

4. User can select **[TYPE]** for different connection methods: TCP/IP, modem and null/leased modem. For TCP/IP connection, user needs to input the dial back IP address and port no. in **[IP]** and **[PORT]**



5. Select [IP] option and press "Enter" Enter
button to set IP. Use "Left" ^{*} [●] or "Right"
^{*} button to select field and use "Up" [●] or
"Down" [●] ⁺ button to set number. Press

"Enter" button to save the change and return to previous menu.

6. Select [PORT] option and press "Enter" Enter button to set port. Use "Left" Cor "Right"
button to select field and use "Up" or "Down" button to set number. Press
"Enter" Enter button to save the change and

return to previous menu.



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ENTER

7. For modem connection, user needs to input the dial back phone number in **[PHONE]** option.

DIAL TYPE PHONE IP PORT	BACK PHONE X SETTING MODEM 29955900 0.0.0.0 0
DIALBACK PHONE X SETTING	
F TYPE PHONE IP PORT	NULL MODEM/ LEASED LINE

- 8. For null modem / leased line modem connection, user does not need to input any IP or phone numbers.
- 9. You can press "Live" button to exit OSD menu or press "Back" button to enter action menu again.
- 10. Run **WX-30** software at the local network PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)



- 11. Press [Alarm Standby] a icon for activating dialback action standby
- 12. **[Alarm Password]** message broad pops up. Enter alarm password and press **[OK]** icon

(Default alarm password of WX-30 is 000000)



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13. Press the icon it to select the connection type for dialback



- 14. Press the icon to enter [Connection Speed] message broad to select bit rate, port number. The port number should be as same as the port number set in step 8
- 15. Press [OK] icon to exit and save the settings

Bit <u>R</u> ate	200 - 000000
C 1200	C 19200
C 2400	38400
C 4800	C 57600
O 9600	C 115200
TCP / IP	
IP Address:	210.17.139.145
Port Number:	2048

4. Email

Email action supports user to send emails to recipient addresses in order to notice the event trigger status.

Email Setup Procedure :

- 1. Press "Menu" Substitution, select [SETUP] option and press "Enter" Inter button to enter [SETUP] sub menu.
- 2. Select [EVENT HANDLER] option and

press "Enter" button. Select an action and

press "Enter" ^{enter} button to show event setting menu. Select [ACTION] option and press

"Enter" Enter button, then select [E-MAIL] option and press "Enter" Enter button to enter

email setting menu.

3. Select [ENABLED] and set [YES] to enable email action. Select [GENERAL E-MAIL

SETTING] option and press "**Enter**" Enter button to select other email action settings.

XXXXXXX ACTION	
RECORDING SWITCH	
DIALBACK	
Femail SMS	••• •••
BUZZER EVENT LED	
LIVE CAMERA	
PTZ SPOT ALARM	
XXXXX E-MAI L F ENABLED GENERAL E-MAIL SETTING	YES

address.

4.

 Select [E-MAIL (No.)] and press "Enter" Enter button to input the recipient address for email action. Select [ACTION] to set the action delay for email action. Select [MAX. NO OF E-MAIL] to set the maximum number of email for an event trigger.

Select [SENDER E-MAIL] and press

"Enter" Enter button to input the sender e-mail

6. Select [SMTP SERVER] and press "Enter"

- 7. Choose [SMTP SERVER ADDRESS] press
 "Enter" Enter button to input the SMTP server address. Use "Left" O or "Right" O button to select SMTP server timeout time and send mail retry number.
- If the SMTP server needs authentication, please select [AUTHENTICATION] and set [YES] to enable authentication. Input [USER NAME] and [PASSWORD] for authentication.





GENERAL E-MAIL SETTING

SENDER E - MAIL SENDER@TEL..

USER1@TEL..

USER2@TEL..

USER3@TEL..

USER4@TEL..

10SEC

ENTER

SMTP SERVER

E-MAIL 1

E-MAIL 2 E-MAIL 3

E-MAIL 4

ACTION

MAX. NO OF E-MAI L TEST E-MAIL

GENERAL E-MAIL SETTING

SMTP SERVER E-MAIL 1 E-MAIL 2 E-MAIL 3 E-MAIL 4	
SENDER E – MAIL	SENDER@TEL
ACTION	10SEC
MAX. NO OF E-MAI L	5
TEST E-MAIL	ENTER

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9. DNS setting must be set for SMTP server. Choose [DNS SETTING] in SMTP server

OSD menu and press "Enter" Enter button to enter TCP/IP menu as shown.

- 10. Set the [ENABLE DNS] option to yes and input the primary DNS and secondary DNS setting in [PRIMARY DNS] and [SECONDARY DNS] option.
- 11. After changing the DNS setting, press "Live"

Be button or "**Back**" button several times to exit the OSD menu and **RX** video recording server will pop up a restart message. Press

"Enter" Enter button to restart the video recording server.

12. After restart the **RX** video recording server, go back the [GENERAL E-MAIL **SETTING**] menu to test the email. Select the [TEST E-MAIL] option and press "Enter" Enter button to test the email, a test mail will be

sent to each of the e-mail addresses.

PORT SUBNET MASK 255.255.255.0 **ENABLE GATEWAY** GATEWAY 210.17.125.7 FENABLE DNS PRIMARY DNS SECONDARY DNS 210.17.125.4 210.17.125.14 SURELINK **GENERAL E-MAIL SETTING SMTP SERVER** E-MAIL 1

IP

USER1@TEL. E-MAIL 2 USER2@TEL.. E-MAIL 3 USER3@TEL.. E-MAIL 4 USER4@TEL.. SENDER E – MAIL SENDER@TEL. . 10SEC ACTION MAX. NO OF E-MAI L 5 **TEST E-MAIL** ENTER

TCP / IP

SMS 5.

SMS action supports user to send short message to mobile user in order to notice the event trigger status.

Press "Menu" de button, select [SETUP] 1. option and press "Enter" ^{Inter} button to enter [SETUP] sub menu. 2. Select [EVENT HANDLER] option and press "Enter" Enter button. Select an action and press "Enter" inter button to show event setting menu. Select [ACTION] option and press "Enter" Enter button, then select [SMS] option and press "Enter" Enter button to enter SMS setting menu.

XXXXXXX ACTION		
RECORDING		
SWITCH		
DIALBACK		
EMAIL FSMS		
BUZZER		
EVENT LED		
LIVE CAMERA		
PTZ SPOT ALARM		
SPOTALANM		

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1024

YES

YES

210.17.125.98



Note: This function is supported only after the SMS box installed.

6. Buzzer

The built-in buzzer can give "**Beep**" sound that draws nearby operator's attention when event is triggered.

Duration is the period for turning on the buzzer and **Action delay** is the period after turning off the buzzer turning on.

Buzzer Action setup procedure

1. In the action menu, select [BUZZER] option and

press "Enter" Enter button to enter the buzzer action setting menu.

XXXXXXX ACTION	l -
RECORDING SWITCH DIALBACK EMAIL SMS IF BUZZER EVENT LED LIVE CAMERA PTZ SPOT ALARM	···· ··· ··· ··· ···

- 2. Select [ENABLED] option and use "Left" **C** or "**Right**" **S** button to enable (i.e. set the value to [YES]) buzzer action.
- 3. Select [GENERAL BUZZER SETTING] option and press "Enter" button to enter the buzzer setting menu.
- 4. Select [DURATION] option and press the "Left" Or "Right" OF button to choose the duration.
- Select [ACTION DELAY] option and press the "Left" Or "Right" OF button to choose the action delay
- 6. You can press "Live" button to exit OSD menu or press "Back" Back button to enter action menu again.

7. Event LED

The event LED is the LED built on the front panel of *Tele***Eye RX** video recording server. If an event is triggered, the LED is blinking until the event is cleared.

Event LED Action setup procedure

1. In the action menu, select [EVENT LED]

option and press "**Enter**" ^{Enter} button to enter the event LED action setting menu.

XXXXXXX ACTION	
RECORDING	
SWITCH	
DIALBACK	
EMAIL SMS	
BUZZER	
FEVENT LED	<mark></mark>
LIVE CAMERA PTZ	
SPOT ALARM	





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or "**Right**" D^{*} button to enable (i.e. set the XXXXXX X EVENT LED value to [YES]) event LED action. F ENABLED YES You can press "Live" ⁹ button to exit OSD 3. menu or press "**Back**" button to enter action menu again. Live Camera In the action menu, select [LIVE CAMERA] XXXXXXX ACTION 1. RECORDING option and press "Enter" Enter button to enter the SWITCH DIALBACK live camera action setting menu. EMAIL SMS BUZZER EVENT LED LIVE CAMERA PTZ SPOT ALARM Select [ENABLED] option and use "Left" ^{*} XXXXXX X LIVE CAMERA "**Right**" D button to enable (i.e. set the value to **ENABLED** YES ASSOICATE CAMERA **[YES]**) live camera action. Select [ASSOCAITE CAMERA] option and press 2. "Enter" Enter button to enter the live camera action setting menu. Use the "Left" **C** or "Right" **C** ASSOCIATE CAMERAS 1 - 3 button to select camera and press the "Up" or "**Down**" button to enable or disable camera.

Press "Enter" button to save the camera setting and go back to live camera action menu.

You can press "Live" ⁹ button to exit OSD menu 3. or press "Back" Back button to enter action menu again.

Password

TeleEye RX User Guide

Select [ENABLED] option and use "Left" 2.

8.

Live Camera

Event associated live camera displays real time live video of pre-selected camera if an event is triggered, so operator can immediately know what is happening at the site. Live camera action can only display live video one time before user clears the event.

Live Camera Action setup procedure


9. PTZ

PTZ camera action allows the pan tilt zoom camera to go to user preset position for viewing what happen if an event has been triggered.

PTZ Action setup procedure

1. In the action menu, select **[PTZ]** option and press **"Enter"** button to enter the PTZ action setting

menu.

XXXXXX	
RECORDING SWITCH DIALBACK EMAIL SMS BUZZER EVENT LED LIVE CAMERA IVE CAMERA FTZ SPOT ALARM	

Select [ENABLED] option and use "Left" ^{*}
 or "Right" ^{*}
 button to enable (i.e. set the value to [YES]) PTZ action.



3. Select [ASSOCAITE CAMERA] option and

press "Enter" Enter button to enter the PTZ action setting menu. Use the "Left" TO or "Right" button to select camera and press the "Up" or "Down" button to enable or disable

camera. Press "Enter" Enter button to save the camera setting and go back to PTZ action menu.

- 4. Select [**RECALL PRESET**] option and use the "Left" Or "Right" button to select camera and press the "Up" or "Down" button to choose the preset position of the PTZ camera.
- 5. You can press "Live" subtraction to exit OSD menu or press "Back" such button to enter action menu again.

XXXXXX X PTZ ENABLED YES ASSOICATE CAMERA RECALL PRESET 1

10. Spot alarm

Spot alarm displays real time live video of pre-selected camera when event triggered, so operator can immediately know what is happening at the site. If more than one associated camera is selected, Spot alarm will change to switch mode.

Spot alarm setup procedure



F. Password

System administrator can setup a password to protect the video recording server from being operated by unauthorized operators.

Password Setup Procedures:

1. Press "Menu" Dutton, select [SETUP]

option and press "Enter" Enter button to enter [SETUP] sub menu. Select [PASSWORD]

option and press "Enter" option.

2. Enter the password first by using the "Live Camera Control Button". The default

password is "**111111**" and press "**Enter**" Enter button.

3. User can change the password by selecting [CHANGE PASSWORD] option and press

"Enter" button. It is highly recommended to change the password after the 1st installation immediately.

4. Type a new password using the "Live Camera Control Button" on [NEW PASSWORD] and retype the same password on [CONFIRM NEW PASSWORD]. Press "Back" button to

save and exit the menu.

5. User can enable password protection for event, recording, search and main menu by choosing **[YES]** option.



CHANGE PASSWORD

G. Built-In Web Server

Built-in web server allows user to access and control *Tele***Eye RX** video recording server by using web browser, such as MS Internet Explorer. In order to use web server function, user must install **Virtual Machine**, such as Sun Java VM (<u>http://www.java.com</u>).

Built-in Web Server Setup Procedures

1. Press "**Menu**" button, select [**SETUP**]

option and press "Enter" button to enter [SETUP] sub menu. Select [TRANSMITTER] option and press

"Enter" button to show video recording server setting menu.

2. Select [BUILT-IN WEB SERVER] option and set [YES] to enable the built-in web

server. Press "**Back**" **button to exit the** menu. The video recording server will restart.

3. After video recording server restarts, open a web browser in your PC as shown. Type the IP address and port number of the video recording server with the format as example below :

http://210.17.139.148:1024

Port number input is optional. If no port number is input, default port number is 80.

4. Type the video recording server password which is same as the administrator password of *Tele*Eye Reception Software WX-30. Choose the connection stream, LAN, broadband or narrowband for the web server connection.



Warning: Applet Window

5. User can view the site through the web browser as below :



- 6. Press "Switch Control" button and the switches control menu will pop up as shown.
 - E.g. Switch 2 and 4 are on and switch
- 7. Press the "1, 2, 3 or 4" button to set the switch of *Tele*Eye RX video recording server on or off.
- E.g. Switch 2 and 4 are on and switch 2 and 3 are off.
- 8. Press "**PTZ**" button to view and control the PTZ camera. The PTZ control menu will pop up as shown. User can control the PTZ camera in this menu such as Pan, Tilt, Auto and so on.



9. Press "Advanced" button to pop up the advance menu for controlling the advance setting of PTZ camera.

	140	Recall Patrol		
Patrol 1	Patrol	2 P	atrol 3	Patrol 4
		Stop Patrol		
Set Default	A Cir. Patrol 1	ddition Contro Home On	Home Off	OSD
Limit R/L				-
	Tour Rec.	A8	A9	A10

10. Press To Flayback button to pop up choose playback log menu as shown.



The functions of the buttons:

Time Slot modification button: Change the displaying time slot. \swarrow will make the time slot smaller while \bowtie will make the time slot larger.

Change Playback Date button: Change the current time display to the selected time in the boxes provided.

Event Display button: Display the event happened during the time of the corresponding time slot

H. Backup to CD / DVD / USB Flash

*Tele*Eye RX video recording servers support backup footage to CD, DVD and USB Flash. Supported disc type includes: CD-R, CD-RW, DVD+R, DVD-R and DVD+RW. Maximum backup size for CD is 650 MB and 4.7GB for DVD and USB.

Note: A recommended physical size of CD/DVD should be 120mm / 5.25"

Backup to CD / DVD / USB Flash Setup Procedure

1. Press "Menu" ^o button, select [FOOTAGE

BACKUP] option and press "**Enter**" Enter button to enter FOOTAGE BACKUP sub menu.

2. For backup to CD, select [BACKUP TO CD]

option and press "**Enter**" [•] button to enter backup menu;

For backup to DVD, select [BACKUP TO DVD]

For backup to USB, select [BACKUP TO USB]

option and press "**Enter**" Enter button to enter backup menu;

In [MODE] option, use "Left" ^{*} and "Right"
buttons to select [MODE].

Note:

All cameras :

- Extract all recorded video
- The total files size is large

Selected camera :

- Only selected cameras' recording will be extracted
- File size is reduced depend on number of camera selected

Quick :

- *Extract recording with lower frame rate of selected camera.*
- No audio will be extracted

Smallest file size among the 3 modes

Backup to CD / DVD / USB Flash

MAIN MENU	
SETUP	
FOOTAGE BACKUP	
SWITCH CONTROL	
SCAN/FORMAT DISK	
TRANSMITTER INFO	
LOCK KEYS	
USER LOG-IN/OUT	
SHUT DOWN	ENTER



BACKUP TO CD/DVD		
	AMERAS (DVD) 56789ABCDEFG 02 SEP 2006 09:50 MAX SIZE 4700 ENTER	

4. In [START DATE] and [START TIME] option, use "Enter" Enter, "Up", "Down", "Left"

use "Enter" Enter, "Up" ♥, "Down" ■ ↓, "Left" ***●** and "Right" ♥ buttons to select the starting date and time of the backup footage.

- 5. In [BACKUP PERIOD] option, use "Left" ^{*}O and "Right" ^{*} buttons to select desired backup period of the footage. Backup period will according to the [BACKUP MAX SIZE] if MAX SIZE is selected or size required for the [BACKUP PERIOD] exceed the [BACKUP MAX SIZE].
- 6. Select [BACKUP MAX SIZE] option and press
 "Enter" Enter button to setup the maximum backup size by using "Up", "Down", "Left" and "Right" buttons. The maximum size for CD backup is 650MB and 4700MB for DVD
- Select [START BACKUP] option and press
 "Enter" Enter button to show [BACKUP RECORDING] message board and it shows user about the end time. Select [YES] option and press

"Enter" Enter button to start backup function.

8. When the message pop-up, insert a blank disc into the DVD recorder.



9. During backup process, backup status will show on OSD, i.e. preparing file and burning disc percentage.

- 10. After finishing the backup process, press "En Enter button to exit and the CD/DVD will be eje
- 11. Insert the CD/DVD to PC with window OS and the Portable Player software will pop up automatically.

Press "**Play**" button for playback in the CD/DVD.

Note 1: For playback from DVD, the PC must be installed with a DVD-ROM, DVD-RW or Combo drive which supports the backup disc type.

Note 2: If the Portable Player software does not pop up automatically, please double click the CD or DVD drive in your PC.

	BACKUP
	BURNING DISC 30%
iter"	BACKUP RECORDING
. 1	BURN DVD SUCCESS
ected.	YES





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I. Connection with PTZ cameras

As *Tele*Eye RX video recording server built with a RS485 IN and OUT port, you can connect port OUT to Pan/Tilt/Zoom cameras (in parallel) and connect port IN to keyboard controller. The connection diagram is shown below.



Setup Procedure

- 1. Connect the P/T/Z cameras to the RS 485 OUT port in parallel at the **Te/eEye RX** rear panel. Connect the P/T/Z cameras to video input port according to each P/T/Z camera ID. *Note: All P/T/Z cameras should be the same model.*
- 2. Connect the keyboard controller to the RS 485 IN port at the *Tele*Eye RX rear panel. For keyboard controller setup, please refer to the keyboard controller manual.
- 3. Configure P/T/Z cameras driver and setting through OSD menu by CCTV monitor.

Configure P/T/Z cameras driver and setting as follows:

1. Press "Menu" button, select [SETUP] option and press "Enter" enter button to enter [SETUP] sub menu. Select [VIDEO] option and press "Enter" enter button.

SETUP MENU	
SETUP MENU VIDEO RECORDING SWITCHES DATE / TIME CONNECTION EVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT RX-SE SETTING IMPORT/EXPORT	
RESTORE FACTORY SETTING	ENTER

2. Select [CAMERA SETTING] option and press

"Enter" Enter button to enter the camera setting menu. Select [CAMERA (NO.)] option and press

"Enter" Enter button to choose the camera as PTZ camera.

Select [SUPPORT PTZ] option and use
 "Left" Or "Right" OF button to choose
 [YES] option. Select [GENERAL PTZ

SETTING] option and press "**Enter**" button to set the PTZ feature.

4. Select [ADVANCED PTZ SETTING] option and press "Enter" button to configure P/T/Z cameras driver and bit rate.



- 5. Select **[PTZ DRIVER]** option and press "**Enter**" Enter button to select P/T/Z cameras driver. According to the P/T/Z camera model, please select a certain driver for required PTZ camera and press "**Enter**" Enter button to save the setting.
- 6. Select [BIT RATE] option and use "Left" ^{*} or "Right" ^{*} button to set bit rate corresponding to your P/T/Z cameras. Press "Back" ^{*} button to go to [PTZ SETTING] menu
- Select [PAN SPEED] and [TILT SPEED] options and use "Left" Or "Right" OF button to change the pan (horizontal direction) and tilt (vertical direction) speed of the PTZ camera.
- 8. Select [**PTZ MOVEMENT**] option and press "Enter" Enter button to change PTZ movement timing setting



Note: If there is no driver to support your P/T/Z cameras, please refer to WX-30 software upload PTZ driver section



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9. User can select different movement direction duration according to whether the PTZ camera supports those functions.

DTT	MOV			OFT	TIMO
PTZ	IVICIV				
		_	_		

		-
G.	PAN DURATION	5
	TILT DURATION	5
	ZOOM DURATION	3
	FOCUS DURATION	3
	IRIS DURATION	3
	ADDITIONAL DURATION	3
	WASHER DURATION	3
	WIPER DURATION	3
	PATROL SPEED	3
	DWELL TIME	2

10. Press "**Back**" **button** for several times to exit main menu. Use "**Camera Control**" buttons (as below) to select the PTZ camera.



- 11. Press "Live" Substitution to show the PTZ Camera Enable menu.
- 12. Select **[YES]** option and press "**Enter**" button to enable PTZ function and the

PTZ enable icon shown at the corresponding PTZ camera in CCTV monitor.

13. Press "Live" Substitution to enter the PTZ option menu for advance control and disable PTZ camera.

0



ENABLE

PTZ ?

You can use "control button" to control PTZ camera.

J. Panel Key Lock

Panel key lock is used to prevent the buttons on the video recording server panel from being pressed carelessly.

Panel Key Lock and Unlock Procedure:

- 1. Press "Menu" e button, select [LOCK KEY] to enter [LOCK KEY] menu.
- MAIN MENU SETUP FOOTAGE BACKUP SWITCH CONTROL **SCAN / FORMAT DISK** TRANSMITTER INFO LOCK KEYS USER LOG-IN/OUT F . . . SHUT DOWN ENTER LOCK KEYS LOCK KEYS ENTER **AUTO KEY LOCK 15SEC** Л **KEY LOCKED UNLOCK ?**

YES

NO

Select [LOCK KEY] option and press "Enter"
 Enter button to enable the panel key lock.

In order to unlock the key lock, user should press any keys on the panel. [UNLOCK]

message is shown. Choose [YES] to unlock the

*NOTE: password is required if KEY LOCK PASSWORD is enabled.

3.

key lock.

K. Time Synchronization

Press "Menu" button, select [SETUP]
 option and press "Enter" enter button to enter
 [SETUP] sub menu. Select [DATE/TIME]
 option and press "Enter" enter button.

SETUP MENU	
SETUP MENU VIDEO RECORDING SWITCHES DATE / TIME CONNECTION EVENT HANDLER TRANSMITTER PASSWORD USER ACCOUNT RX-SE SETTING IMPORT/EXPORT	····
RESTORE FACTORY SETTINGS	ENTER

J

2. Select [ENABLED] and set [YES] to enable dial back action. Select [DNS] and press

"Enter" Enter to set DNS setting. Select [PRI

TIME SERVER] and press "Enter" Enter to set the primary time server address and [SEC TIME SERVER] to set the secondary time server address.

3. Select [UPDATE DATE / TIME] and press

"Enter" Enter to update the date and time with the above setting and the botton line

- "STATUS" indicates the results
- "SUCCESS" means successful update
- "WORK-IN-PROGRESS" means it is trying to update
- "CANNOT RESOLVE DNS" means unsuccessful update and user should check the setting of time server and DNS setting.

DATE / TIME		
TIME SYNC ENABLED	YES	
TIME ZONE		
DATE TIME	11 MAR 2006 11 : 03	
PRI TIME SERVER	TIME . WIND	
SEC TIME SERVER	TIME . N IST	
DNS SETTING		
UPDATE DATE / TIME	ENTER	
STATUS	SUCCESS	

L. Import and Export

Import :

1. Press "**Menu**" button, select [**SETUP**]

0

option and press "Enter" Enter button to enter [SETUP] sub menu. Select [SETTING IMPORT/EXPORT] option and press

"Enter" Enter button.

SETUP MENU	
VIDEO	
RECORDING	
SWITCHES	
DATE / TIME	
CONNECTION	
EVENT HANDLER	
TRANSMITTER	
PASSWORD	
RX-SE	
SHUT DOWN	ENTER
	CIVICIL

2. Select **[IMPORT FROM USE]** option and press **"Enter"** button to start import.





3. Plug the USB flash into USB port. Select

[YES] and press "**Enter**" button to start import. The import file name will be "RX_SETTING-BKUP-XXXXX.RX". "XXXXXX" represents the date. E.g. " RX_SETTING-BKUP-20061211.RX". It will change to the next .rx file if you select [No].

4. Select [YES] and press "Enter" Enter button to restart.





YES

NO

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Export :

2.

1. Select [EXPORT TO USB] option and press "Enter" Enter button.



SETTING IMPORT/EXPORT

select the export type. Press "Left" ^{*} or "**Right**" ^{*} button on [SELECT ALL] if you want to export all type of file to USB. Select

Use "Left" ***** ● or "**Right**" ● → button to

[START EXPORT] and press "Enter" Enter button.

3. Press "Enter" Enter button to start export. The file name will change to "RX_SETTING-BKUP-20061211(2).RX" automatically if a same file name existed before.



M. RX-SE setting

1. Setup RX-SE and press "**Menu**" ^O button.

Select [SETUP] option and press "Enter" Enter button to enter [SETUP] sub menu. Choose

RX-SE and press "Enter" Unter button.

	SETUP MENU	
	VIDEO	
	RECORDING	
	SWITCHES	
	DATE / TIME	
	CONNECTION	
	EVENT HANDLER	
	TRANSMITTER	
	PASSWORD	
_	USER ACCOUNT	
3	RX-SE	
	SETTING IMPORT/EXPORT	

- 2. Select **[RX-SE]** option and press "**Enter**" Enter button to enter the RX-SE setting menu. You can choose different RX-SE number in this setup menu.
- 3. Select [ENABLE] option and Use "Left" [♥]● or "Right" [●] [♥] button to select [YES] for enable RX-SE setting.

Note:

IP and PORT is the IP address and port number of the RX-SE. IP, PORT and PASSWORD can change here. It will find the RX-SE by this IP address and port number.

4. Select **[TEST]** option and press "**Enter**" button to test the connection of RX-SE. Result will show in the STATUS. If it shows ERROR or DISCONNECTED, you should check the RX-SE connection and the IP address ,port number or password correct or not. SERIAL NO and VERSION represent the serial number and version of RX-SE. It will show after the RX-SE is connected.

Note:

There are several statuses.

STATUS :	MEANING :
DISCONNECTED	Disconnected
CONNECTED	Normal
INCORRECT PW	Incorrect password
SE BUSY	The RX-SE is in use
IP/PORT ERROR	Cannot establish connection
MOUNT ERROR	Testing result : HDD error
READ ERROR	Testing result : HDD error
WRITE ERROR	Testing result : HDD error
UMOUNT ERROR	Testing result : HDD error
VALID	Tested OK

SETUP I	SETUP RX-SE				
IF RX-SE 1 RX-SE 2					
Ţ					
RX-SE 1 SI	TTING				
ENABLE IP	YES 192.XXX.X.X 1025 ENTER CONNECTED XXXXX XXXXX 				





Note:

TeleEye RX User Guide Page 157 5. Select [CONFIGURE] option and press **RX-SE 1 SETTING** ENABLE "Enter" Enter button. 192.XXX.X.X IP PORT PASSWORD TEST **STATUS** CONNECTED SERIAL NO VERSION CONFIGURE 7 6. Select [PASSWORD] option and press **RX-SE 1 CONFIG** "Enter" Enter button to change the password. IP 192.XXX.X.X PORT SUBNET 255.XXX.XXX.X GATEWAY 192.XXX.X.X 7 PASSWORD RX-SE IP can change here. The IP of RX-SE 1 will change if you input a new IP. 7. Select [NEW PASSWORD] option and press **RX-SE 1 PASSWORD** "Enter" Enter button to change the password. **OLD PASSWORD FNEW PASSWORD RE ENTER NEW PASSWORD** 8. Input the new password and press [END]. NEW PASSWORD Select [RE ENTER NEW PASSWORD] 2 3 4 5 6 7 8 C D E F G H I M N O P Q R S W X Y Z 0 B L V option and press "Enter" button in the RX-A K U SE password submenu to confirm the changed BACK NEXT CLEAR END password. **NEW PASSWORD :**

YES

1025

XXXXX

XXXXX

1025

. . .

***** *****

9

J T

N. User account

1. Press "Menu" Solution, select [SETUP]

option and press "Enter" Enter button to enter [SETUP] sub menu. Select [USER

ACCOUNT] option and press "Enter" Enter button.

RECORDING	
SWITCHES	
DATE / TIME	
CONNECTION	
EVENT HANDLER	
TRANSMITTER	
PASSWORD	
USER ACCOUNT	
RX-SE	••••
SETTING IMPORT/EXPORT	
RESTORE FACTORY SETTINGS EN	ITER

SETUP MENU

VIDEO

2. At [SECURITY MODE] select [ADVANCED]

- 3. Enter advanced security mode ADMINISTRATOR local password to change the video recording server security mode.
- 4. After video recording server restart, repeat Step 1. to [USER ACCOUNT] page.
- 5. Select [ADD ACCOUNT] option and press

"Enter" button to add a new user account. Select [MODIFY ACCOUNT] option and

press "Enter" button to modify existing user account setting.

6. In [ACCOUNT NAME] option, press

"Enter" button to edit a 4-16 characters account name. (Account name can only be edited while adding a new account)

- 7. In [LOCAL LOGIN] option, use "Left" ^{*}
 and "Right" ^{*} buttons to enable/disable this user as local account type.
- 8. In [LOCAL TIMEOUT] option, use "Left"
 and "Right" D buttons to select local timeout period.



USER ACCOUNT SECURITY MODE ADVACNED ADD ACCOUNT ... MODIFY ACCOUNT ... POWER ON DEFAULT RIGHT ...



'5' **→** "Full" 0

9. In [LOCAL PASSWORD] option, press

"Enter" ^{Lenter} button to input a 4-10 numeric characters local password by using keypad

key. Press "Enter" button and retype the same password by keypad keys to confirm

'6' **→** "Quad" □

Note: Enter password key mapping: RX364 / RX324:

'1'- '4' **→** "Cam 1" – "Cam 4"

□+□

 $?7' \Rightarrow "Seq" \qquad `8' \Rightarrow "Event" \qquad \\ `9' \Rightarrow "Rec" \qquad `0' \Rightarrow "Live" \qquad \\ RX368_V2 / RX328: \\ `1'- `8' \Rightarrow "Cam 1 "- "Cam 8" \\ `9' \Rightarrow "Full" \qquad `0' \Rightarrow "Quad" \qquad \\ RX3616_V2 / RX3216: \end{cases}$

10. Select [ACCESS RIGHT] option and press

"Enter" button to edit account access right.

Notes:

- NO Access right disabled
- YES Access right enabled
- [YES] Access right automatic enabled because other dependent access right is enabled (refer Appendix E for more detail)

11. Select [REMOVE ACCOUNT] option and

press "Enter" Enter button if want to remove this account.

ACCESS RIGHT: 1. ACCOUNT SETTING ENABLED NO 2. SYSTEM SETTING ENABLED NO **3. RECORDING ENABLED** NO 4. BACKUP ENABLED YES 5. SWITCH CONTROL 3 – 6. EVENT CONTROL ENABLED NO 7. CAMERA CONTROL ENABLED YES 8. PLAYBACK ENABLED [YES] **9. AUDIO ENABLED** [YES] **10. VIDEO ENABLED** 123456789ABCDEFG



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External Keyboard 0.

RX supports *Tele*Eye KB-02 to control local operation and PTZ cameras.

External Keyboard and Camera Setup

- Connect *Tele*Eye KB0-2 to RX RS485 IN connector at the rear panel. 1.
- Connect Cameras' RS485 wire to RX RS485 OUT connector. 2.



External Keyboard Setup Procedures

SETUP MENU Press "Menu" ^o button, select [SETUP] 1. VIDEO RECORDING option and press "Enter" Enter button to enter **SWITCHES** DATE / TIME [SETUP] sub menu. Select CONNECTION [TRANSMITTER] option and press **EVENT HANDLER TRANSMITTER** PASSWORD "Enter" Enter button to show video recording **USER ACCOUNT** server setting menu. **RX-SE SETTING IMPORT/EXPORT RESTORE FACTORY SETTINGS ENTER** 2. Select [EXTERNAL KEYBOARD] option TRANSMITTER and press "Enter" Enter button to enter TRANSMITTER NAME **RX364 REGISTRATION CHECKING** [EXTERNAL KEYBOARD] sub menu. YES BUILT-IN WEB SERVER SECURITY MODE YES ADVANCE . . . UPGRADE

. . .

External Keyboard

3. Select [TRANSMITTER AND PTZ]

option and press "**Enter**" button to enable External Keyboard control video recording server

- 4. Select [TRANSMITTER ID] and [RS-485 BAUD RATE] by using "Left" and "Right" buttons. Noted that RS-485 BAUD RATE is recommended to use 4800.
- 5. Follow the installation procedure of *Tele*Eye DM-KB02 to setup keyboard parameter.

 \mathbf{J}

EXTERNAL KEYBOARD

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APPENDIX A Safety Instruction

Important safety instruction

Read the instruction carefully. Save these instructions for future reference.

- 1. Follow all warnings and instructions marked on the product and this user guide.
- 2. Do not place this product on unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- 3. Slot and openings of the casing are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be placed near of over a radiator or heat source, or in a built-in installation unless proper ventilation is provided.
- 4. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type power available, consult your dealer or local power company.
- 5. The DVD drive used with this product is a laser product. It radiates Class 3B invisible laser when open. Avoid direct exposure to the beam
- 6. Beware of the DVD drive's tray when inserting/ ejecting DVD disc. Incorrect usage may cause damage on the DVD disc, the DVD drive or hurt the operator's finger.
- 7. Make sure the Hard Disk cartridge lock is open before removing and installing the cartridge.
- 8. The Hard Disk cartridge and cartridge frame contain metal parts that may cause injury of user. Handle with care especially when installing and removing Hard Disk.
- 9. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks.

APPENDIX B Limited Warranty

Conditions, Limitations and Liabilities of This Warranty:

- 1. Signal Communications Ltd. (hereinafter called *Tele*Eye) provides free repairing labour and free repairing parts for the first 12 months. Please present the Warranty Card and the original invoice when you are asking for service support.
- 2. In case of applicable, *Tele*Eye staff shall request a remote access inspection or trouble shooting through internet, PSTN, ISDN, or mobile media.
- 3. When service is required, the Customer is responsible for all the transportation costs.
- 4. Outdoor services are not included. Subject to *Tele*Eye, outdoor services will be provided at extra charges.
- 5. This warranty does not extend to cover any damages or malfunction resulting from disaster, environmental factor, abnormal humidity/temperature, improper voltage, electrostatic discharge, misuse, negligence, ignorance, accident, mold, or repairs /modifications made by any person(s) other than the authorized personnel of *Tele*Eye.
- 6. **TeleEye** reserves the right to charge Customer an inspection fee, on-site service fee or cost of parts if (i) no fault in the equipment can be found during inspection or (ii) the defect is caused at conditions those mentioned in point 5 above or (iii) Customer fail in providing access methods to the site or the equipment, e.g. specified access permit or key. Such determination is up to the sole discretion of **TeleEye**.
- 7. The warranty is void if any of the cabinet seal has been removed or opened if there is any such sign not being made by any authorized personnel of *Tele*Eye.
- 8. Under no circumstance shall *Tele*Eye be liable for any damages to any parties so caused by the usage of the above specified equipment or so caused during service provision.
- 9. The conditions, limitations and liabilities of this warranty card may be extended to further terms and conditions or superseded by other terms and conditions when otherwise specified on any of the products.
- 10. Customer shall be responsible for backing up the data contained in the disk products.
- 11. *Tele*Eye shall have no responsibility arising out of any damage to, or loss of the data contained in the disk products.
- 12. All the above determinations are up to the sole discretion of *Tele*Eye.

APPENDIX C sureLINK Technology

sureLINK technology is available in *Tele*Eye RX, which enables you to connect to the video recording server with broadband dynamic IP Internet connection. If you can only use broadband dial-up account to connect to the Internet through your computer, *sureLINK* provides a solution for sharing the Internet connection between your computer and the video recording server.

sureLINK is a group of additional functions, services and software provided for the video recording server so as to make it connect to the Internet in any connection methods. Such function can only be used if you have applied for this service. After you have done so, you also need to configure the video recording server to make *sureLINK* available. This section will help you to configure and use it.

By using of **sureLINK** technology, the powerful **TeleEye RX** can work on broadband Internet economically. You can perform a cost effective and convenient remote live video monitoring anytime and anywhere.

sureLINK Address

You can apply for a *sureLINK* address (domain name), such as

www.hkpublic.teleeye.teleeye.net, for your video recording server. You can use this name to login or browse the built-in web server **. One of the advantages is that you are not required to memorize the IP address (e.g. 210.177.50.156) of the video recording server. Since the **sureLINK** address is fixed while the IP address may change periodically (in case when dynamic IP is used), you do not need to worry about the expiration of the IP address. The **sureLINK** address can also be used in video recording server web browsing to see live video on standard web browser (e.g. IE, Netscape).

Refreshing Rate

When *sureLINK* address feature is enabled, the video recording server will periodically update its current IP address to our database to ensure that the *sureLINK* address is always forwarded to a valid IP. You can set this update period through OSD menu.

DNS Services:

Assigned when the video recording server can directly access the Internet without the help of *Tele*Eye Proxy Server

How to Apply for *sure*LINK Address

You can apply for *sureLINK* by visiting our web site at *http://www.TeleEye.com*



Step 1

- 1. Sign up to create your user account
- 2. Login the page using your registered name and password.
- 3. Click *sure*LINK Address Registration button



	ning System - Microsoft Internet E	xplorer				- 5 >
Ele Edit ⊻ew Favori	ites Iools Heb		• B· 프	1 T. 2		
Back Forward	Stop Refresh Home	Search Favorites Hit				
Address http://www.tele	eye.com/				▼ ∂°Go	Links ¹
				Citizen .		
TeleEye Visio	n Beyond Boundaries		and the second second	A COLOR OF THE OWNER OF THE OWNER OF		
Cardish Colored Colored Total				-1		
Career	N			1999 (1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1		
Contact us				Main Logout		
	sureLINK Address Regis	tration				
中文 Chinese						
	The built-in sureLINK tech					
Registered User	Internet connection. To act transmission unit here.	tivate <i>sure</i> LINK, you can	register an specific ad	dress for your		
ogin ID:						
Peter	sureLINK Address for your name].TeleEye.net* forn					
assword:	alphanumeric characters.		. (a. G			
	Please enter the serial num	nhar and recistration rode	of the associated Tel	leFve #+ transmission		
Login	unit as well as the desired					
0.0.211	Address:					
fener useer? Ign up <u>here!</u>	Transmitter Serial No.:	r	_		01	
Grop Letor	Registration Code:		_		Step 4	
orget password? lick here to retrieve	sureLINK Address:	1				
our login password.	sureLINK Address:	www.		. TeleEye.net		
		Apply				
Product Search						
Choose one						
	-					
1 Done	. And				E Local miranet	

4. Enter a *sureLINK* address (Domain Name), your Video recording server Serial No. and Registration Code in the fields provided respectively. Then click the Apply button. The process is then completed.

After we receive your domain name registration for your video recording server, your application will be processed. Normally, it requires about 2 to 3 working days to activate *sureLINK* for your video recording server. You will receive a notification e-mail when your *sureLINK* service is ready.

Transmitter Modification

Since the *sureLINK* (Domain name) address corresponds to a single video recording server, if you change from one video recording server to another one, you have to inform us to update our database record. To do this, you can visit our *Tele*Eye Product Support again and follow the steps as below:

 Transmitter Modification > Select a *sureLINK* address (Domain Name) you want to modify





2. Enter the **Old Registration Code**, **New Transmitter Serial Number** and **New Registration Code** at each field provided. Click Modify button to submit the form.

	eEye Remote Monit Edi ⊻iew Favo	toring System - Microsoft Internet Expl	orer			1
B	ek Echward	Stop Refresh Home Se	Q 🔝 🝏 Aarch Favorileo History	Nai Print	107 - 🔏 Edi Messenger	
Addre	ts http://www.tels	eeye.com/				💌 🖉 Go
	leEye Visio	on Beyond Boundaries				
Care	er act us	*			<u>Main Logout</u>	
	P文 Chinese	Address Associated Trans		VeEwe transmission (nit are as below:	
Re	jistered User					
Login Pete		sureLINK Address: Transmitter Serial No.:	www.hella.hello.telee VTC00101	ye.net		
) 4		To switch your registered sur to another, please enter the m serial number & registration of	agistration code of the origi	nal TeleEye transmis		
Alew	iser?	Old Registration Code:			Step 3	
Click	t password? ere to retrieve	New Transmitter Serial No. New Registration Bode:				
	igh password.		Modify		,	
	iduct Search ose one					
(a) Do	0	<u> </u>				Local intranet

If the above procedure is completed successfully, the *sureLINK* will be effective immediately.

APPENDIX D

Firmware Upgrade

Please follow the following procedures to upgrade the new version of *Tele*Eye RX firmware. Note that user must upgrade the new version of *Tele*Eye RX firmware TWICE if the current version firmware is below 2.00.00 version.

USB Upgrade :

Step 1 :	• If you already have the firmware upgrade file in a USB, please go to Step 3 . Otherwise, please go to Step 2 .
Step 2 :	• Get ready the RX firmware upgrade file *.rxp. Get ready an empty USB drive and download the RX firmware upgrade file to your USB root directory , for example, E:*.rxp.
Step 3 :	 Turn on RX video recording server. Plug the USB flash into USB port in the rear panel of RX video recording server. Press Menu button at the front panel of the video recording server. Enter Main menu → Setup menu → Transmitter menu → Upgrade menu → Upgrade Transmitter Firmware → Choose Upgrade from USB and press Enter button. The video recording server will complete the upgrade process automatically.
Step 4 :	 After upgrade, press Menu button at the front panel of the video recording server. Enter Main menu → Transmitter Info menu, to check the RX firmware version is upgraded or not.

CD Upgrade :

Stop 1 .		If you already have the firmware ungrade file in a CD places go to Stap 3
Step 1 :	•	If you already have the firmware upgrade file in a CD, please go to Step 3.
		Otherwise, please go to Step 2 .
Step 2 :	•	Prepare a blank CDR.
		Burn the RX firmware upgrade file into the root directory of the blank CDR,
		for example, F:*.rxp. (For burning the RX firmware upgrade file into the
		CDR, please refer to the user guide of the software for burning CDR.)
Step 3 :	•	Install a RX formatted hard disk into RX video recording server and turn it
		on. Insert the CD into the CD-ROM of RX video recording server. Press Menu
		button at the front panel of the video recording server.
	•	Enter Main menu \rightarrow Setup menu \rightarrow Transmitter menu \rightarrow Upgrade menu \rightarrow
		Upgrade Transmitter Firmware \rightarrow Choose Upgrade from CD and press Enter
		button.
	•	The video recording server will complete the upgrade process automatically.
Step 4 :	•	After upgraded, press Menu button at the front panel of the video recording
		server.
	•	Enter Main menu \rightarrow Transmitter Info menu, to check the RX firmware version
		is upgraded or not.

APPENDIX E Security Mode

There are 2 security modes in *Tele*Eye RX: BASIC and ADVANCED. User can either choose BASIC security mode for simple usage or ADVANCED security mode for multiple user accounts and flexible access right. The comparison of the security modes can be found in the following table:

Descri	ption	Basic Security Mode	Advanced Security Mode
Numbe	er of account	2	20
Accour	nt apply on	reception software	reception software and local OSD
Passwo	ord length	6	4 - 10
Passwo	ord encryption	No	Yes
Login	Reception software	Only password	User name and password
	Local menu		Only password
Access	right	Operation	Video monitoring
		System setting	Audio monitoring and PA
			Playback
			Camera Control
			Event Control
			Switch Control
			Video backup
			Recording
			System setting
			User account

* 6 concurrent users in both security modes

Basic security mode -- User account ADMINISTRATOR

Туре	Default	Remark
User name	ADMINISTRATOR	FIXED
Access right	Operation and System setting	FIXED
Network password	000000	Available to change

USER

Туре	Default	Remark
User name	USER	FIXED
Access right	Operation	FIXED
Network password	123456	Available to change

Basic security mode -- Access right

Group	Features Involved
Operation	Video/audio monitoring, PTZ, Playback, Switch control
System setting	Start/stop recording, Video backup, System setting, Restart transmitter Firmware upgrade

Account structure

Туре	Description	Remark				
General setting	General setting					
User name	Login user name from remote	4-16 characters				
	software	case insensitive				
		unique between each account				
Account type	LOCAL / NETWORK / BOTH	allow user to login from local				
		OSD / remote software / both				
Access right	Access right of the user account	(Access right)				
Network account ty	pe setting					
Network password	Login password from remote software	4-10 characters				
		case insensitive				
Local account type	setting					
Local password	Login password from local OSD	4-10 characters (ONLY numeric				
	menu	character available)				
		unique between each account				
Local time out	Automatic log-out time period when	except in playback state				
	keypad idle					

In factory default, 2 preset accounts: ADMINISTRATOR and USER1 are stored in the video recording server.

Administrator account: ADMINISTRATOR**

Туре	Default	Remark
User name	ADMINISTRATOR	FIXED
Account type	BOTH	FIXED
Access right	ALL	FIXED
Network password	000000	Available to change
Local password	111111	Available to change
Local time out	15 MINS	Available to change

**Administrator account cannot be removed

Normal account: USER1

Туре	Default	Remark
User name	USER1	FIXED
Account type	BOTH	Available to change
Access right	VIDEO MONITORING	Available to change
Network password	123456	Available to change
Local password	123456	Available to change
Local time out	15 MINS	Available to change

POWER ON DEFAULT RIGHT

At RX startup or local user logout, access right of local menu will follow the setting of "POWER ON DEFAULT RIGHT"

Туре	Default	Remark
Access right	NONE	Available to change

Advanced security mode -- Access right

Group	Features Involved
VIDEO MONITORING [#]	basic video monitoring with fixed cameras
	browsing the event status**
AUDIO MONITORING	audio monitoring**
and PA	PA with microphone, PA with pre-recorded voice clips
PLAYBACK	video playback**
	browsing event logs, connection log, setting log and operation log
CAMERA CONTROL	PTZ**
EVENT CTRL	clear event
SWITCH CONTROL	switch control
	audio monitoring} & {playback} access right group will be enabled
VIDEO BACKUP ¹	video extraction and backup
RECORDING ¹	start/stop recording
	start/stop schedule recording
SYSTEM SETTING ¹	video format, camera installation, throughput control setting
	change live video quality, brightness, contrast
	network and modem setting
	data/time setting
	hard-disk formatting
	recording setting
	switch setting
	event setting
	firmware upgrade
	shutdown/restart
All access right group wil	
USER ACCOUNT ²	setting import/export
	user account setting
	switch video recording server security mode
	restore factory setting

at least one camera should be selected

** Video monitoring dependence. For example, if user has no access right on camera 2 monitoring, he cannot browse event status, control PTZ and playback on this camera.

¹ Automatic enable all video monitoring, audio monitoring and playback permission ² Automatic enable all access right permission

APPENDIX F

General Terms Discussion

Before you start to configure the video recording server, you may need to know some of the terms and information used in the video recording server.

Registration Checking

Users need to do the registration in the **TeleEye** Reception Software WX-30 for authorization before the video recording server can be used when such feature is enabled in the **TeleEye RX**. This option can be applied to improve the security protection for the organization when higher security level is required. If the video recording server is decided to open for public use, you can disable this feature so that public users do not need to register for viewing live video from the **TeleEye** Reception Software WX-30.

Site Monitoring Method

There are mainly four methods to link up with the video recording server to see video:

- Telephone Line (Public Telephone Network/ISDN)
- TCP/IP in LAN
- TCP/IP on the Internet using Broadband and Internet Router
- TCP/IP on the Internet using Broadband with Dial-up Software

You have to choose one of the **connection methods** in Section 3 to configure the video recording server before use so as to make it function properly.

The *Tele*Eye Reception Software WX-30 contains all the settings for different remote video monitoring method. Different connection methods may have different settings, and some of the setting configured in one connection method is not applicable to other method. In this case, you can refer to one of the following configuration procedures for the connection method you will use.

It is recommended that the above items should be configured before the first time you use the video recording server no matter which connection method you use. The steps to set the above items are discussed in **Section 3 : Basic Installation for Local and Remote Monitoring**

APPENDIX G

Audit Trial Log Description

A. Audit Trial Log Description of Setting Log and Operation Log

Event short form : *[EVENT]* **ARM** : arm / disarm input **SECUSW** : security switch input **ALARM** : alarm sensor input **MOTION** : motion **VLOSS** : video loss **SYSTMR** : system tamper input **PWRFAL** : power failure input **HDD** : disk usage **HI TMP** : overheat

B. Setting Log Operation Column Table :

ODEDATION	DESCRIPTION
OPERATION	DESCRIPTION
CAMERA	Install/uninstall camera
CAMERA NAME	Change camera name
PTZ CAMERA	Support / unsupported PTZ camera
PTZ PAN SPEED	Change PTZ camera pan speed
PTZ TILT SPEED	Change PTZ camera tilt speed
PTZ PAN DUR	Change PTZ camera pan duration
PTZ TILT DUR	Change PTZ camera tilt duration
PTZ ZOOM DUR	Change PTZ camera zoom duration
PTZ FOCUS DUR	Change PTZ camera focus duration
PTZ IRIS DUR	Change PTZ camera iris duration
PTZ ADDI DUR	Change PTZ camera additional duration
PTZ WASHER DUR	Change PTZ camera washer duration
PTZ WIPER DUR	Change PTZ camera wiper duration
PTZ PTL SPEED	Change PTZ camera patrol speed
PTZ DWELL TIME	Change PTZ camera dwell time
PTZ DRIVER	Change PTZ driver
PTZ BAUD RATE	Change PTZ camera baud rate
CLOCK POSITION	Change OSD clock position
CAM NAME POSN	Change OSD camera name position
SEQ SW TIME	Change camera sequential switch time
SEQ MODE CAM	Change camera in sequential display mode
DISPLAY MODE	Change default display mode
OSD COLOR	Change OSD menu color

Audit Trial Log Description

VIDEO FORMAT	Change camera video format	
RECORD MODE	Change recording mode	
DISK MODE	Change recording disk mode	
QUALITY	Change recording quality	
IMAGE SIZE	Change recording image size	
SWITCH NAME	Change switch name	
SWITCH TYPE	Change switch type	
DATE TIME	Change date time	
NETWORK	Change IP, subnet mask. Change / enable / disable gateway	
PORT	Change port	
DNS	Enable / disable DNS	
DNS ADDRESS	Change DNS address	
SURELINK	Enable / disable <i>sure</i> LINK	
SULK ADDRESS	Change <i>sure</i> LINK address	
SULK REFR RATE	Change <i>sure</i> LINK refresh rate	
MODEM BAUD RATE	Change modem baud rate	
MODEM BAOD RATE	Change modern baud rate Change modern ring count	
THROUGHPUT	Change video recording server throughput	
ARM/DISARM	Enable / disable arm/disarm input	
ARM/DISARM ARM STATE	Change arm state	
ARM STATE ARM TMR TYPE	Change arm/disarm tamper type	
ASSOCIATE SW 1	Enable / disable arm/disarm associate switch 1	
SECURITY SWITCH	Enable / disable security switch	
SECURIT SWITCH		
SECUSW ON STATE	Change security switch on state	
ASSOCIATE SW 2	Change security switch tamper type Enable / disable security switch associate switch 2	
ASSOCIATE SW 2 ALARM	Enable / disable alarm sensor	
ALARM NAME	Change the alarm sensor name	
ALARM NAME ALARM SEN TYPE		
	Change alarm temper type	
ALARM TMR TYPE ZONE TYPE	Change alarm tamper type Change alarm sensor zone type	
ENTRY DELAY	Change alarm sensor entry delay	
EXIT DELAY	Change alarm sensor exit delay	
MOTION DLOCK	Enable / disable motion	
MOTION BLOCK	Change motion block	
MOT SENSITIVITY	Change motion sensitivity	
VIDEOLOSS	Enable / disable video loss	
SYSTEM TAMPER	Enable / disable system tamper	
SYSTMR SEN TYPE	Change system tamper sensor type	
POWER FAILURE	Enable / disable power failure	
PWRFAL SEN TYPE	Change power failure sensor type	
DISK USAGE	Enable / disable disk usage	
HDD USAGE LEVEL	Change disk usage warning level	
OVERHEAT	Enable / disable overheat	
[EVENT] RECORD	Enable / disable recording action for the event	
[EVENT] REC CLDU	Change recording duration after event clear	
[EVENT] REC MODE	Change event recording mode	
[EVENT] REC CAM	Change event recording camera	

Audit Trial Log Description

[EVENT] SWITCH	Enable / disable switch action
<i>[EVENT]</i> SW EN	Change associate switch in switch action
SW LATCH DUR	Change switch latch duration
SWITCH DELAY	Change switch action delay
[EVENT] DIALBACK	Enable / disable dial back action
DB RETRY DUR	Change dial back retry duration
DB RETRY COUNT	Change dial back retry count
DIALBACK IP	Change dial back IP address
DIALBACK PORT	Change dial back port
[EVENT] EMAIL	Enable / disable email action
SMTP SERVER	Change SMTP server address
SMTP AUTH	Enable / disable SMTP server authentication
SMTP USER	Change SMTP server user name
SMTP PW	Change SMTP server user password
EMAIL ADDR	Change recipient email address
MAX EMAIL NO	Change maximum no of email
[EVENT] BUZZER	Enable / disable buzzer action
BUZZER DURATION	Change buzzer duration
BUZZER DELAY	Change buzzer delay
[EVENT] LED	Enable / disable LED action
[EVENT] LIVECAM	Enable / disable live camera action
[EVENT] LIVE CAM	Change associate cameras in live camera action
[EVENT] PTZ	Enable / disable PTZ action
[EVENT] PTZ CAM	Change PTZ associate camera
[EVENT] PTZ PSET	Change PTZ camera recall preset position
TX NAME	Change video recording server name
REG CHECK	Enable / disable registration checking
WEB SERVER	Enable / disable built-in web server
EVENT MENU	Protect / unprotect event menu by password
RECORD MENU	Protect / unprotect recording menu by password
SEARCH MENU	Protect / unprotect search menu by password
MAIN MENU	Protect / unprotect main menu by password
CHANGE PASSWORD	Change password

C. Operation Log Operation Column Table :

OPERATION	DESCRIPTION
START RECORDING	Start manual recording
STOP RECORDING	Stop manual recording
START PLAYBACK	Start playback video
STOP PLAYBACK	Stop playback video
START BACKUP CD	Start backup video to CD
RESTORE BACKUP	Restore default factory setting
RESTART	Restart video recording server
SHUTDOWN	Shut down video recording server
UGRADE USB	Upgrade firmware from USB
UGRADE CDR	Upgrade firmware from CDR
SWITCH (No.1~4) ON	Switch (No.) turn on
SWITCH (No.1~4) OFF	Switch (No.) turn off

Audit Trial Log Description

APPENDIX H

Specifications

A. RX364 / RX368_V2 / RX3616_V2

	MODEL			
VIDEO INPUT	RX364 RX368_V2 RX3616_V2			
		CIR, 625 lines, 25 fran	1	
STANDARD		EIA, 525 lines, 30 fran	1	
		mposite video, 1 V _{p-p} ,		
NO. OF CHANNELS	4	8	16	
VIDEO OUTPUT			1	
ST A ND A DD		CIR, 625 lines, 25 fran EIA, 525 lines, 30 fran	1	
STANDARD		mposite video, 1 V_{p-p} ,	1	
NO. OF CHANNELS	1		ut, 1 Spot out	
DISPLAY SCREEN	full, quad	full, quad, 3 x 3	full, quad, 3 x 3, hex	
	Turr, quuu		25/30fps D1,	
	25/30fps D1,	25/30fps D1,	100/120fps CIF,	
DISPLAY FRAME RATE	100/120fps CIF	100/120fps CIF,	200/240fps 3 x 3,	
	-	200/240fps 3 x 3	400/480fps QCIF	
VGA				
SUPPORT	N/A	Optional		
FREQUENCY	N/A		75 Hz	
RESOLUTION	N/A	1024 x 768	/ 1280 x 1024	
STANDALONE OPERATIO		c· · · ·	11	
ТҮРЕ	System c	onfiguration, operatior	h, audit trail	
AUDIO 1 channel, RCA, line 2 channels, BCA, line				
INDUT	level	2 channels,	RCA, line level	
INPUT				
	Input impedance : 30k, frequency : 200-3500Hz PA/local output : 1 channel, RCA, line level;			
OUTPUT				
COMMUNICATION	Output impedance : 600ohm, frequency : 200-3500Hz			
NETWORK	RJ-45, 10/100 Base-T Ethernet (auto-sensing)			
CONCURRENT USERS	6(independent)			
sureLINK	support Internet connection assigned with dynamic IP address		n dynamic IP address	
MAX. TRANSMISSION	20/30fps D1,	$25/20 fm_{0} D1$	100/120fmg CIE	
FRAME RATE	50/60fps CIF	25/501ps D1,	100/120fps CIF	
WEB SERVER	Built-in			
USB	USB2.0, 12Mbps			
MODEM PORT	RS-232C: DB-9 male, asynchronous, 8 data bits,			
MODEM PORT 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow				
TELEMETRY CONTROL	Keyboard/ Camera port: RS-422/485: 2-way terminal, asynchronous,			
	8 data bits, 1 stop bit, no parity, 2.4-19.2kbps			

|--|

RECORDING			
MODE	ma	nual, schedule, event-dri	iven
HD TYPE	SATA interface, removable		
	(P) : 25fps at 720 X	····, ····	-
	576 pixels; 100fps at	(P) : 100fps at 72	20 X 576 pixels;
MAY DECODDING DATE	360 X 288 pixels	200fps at 360	X 288 pixels
MAX. RECORDING RATE	(N) : 30fps at 720 X	(N) : 120fps at 72	20 X 480 pixels;
	480 pixels; 120fps at	240fps at 360	X 240 pixels
	360 X 240 pixels		
PLAYBACK	Forward, Backward, I	Pause, Step Forward, Ste	ep Backward, x10 Fast
ILAIDACK	Forward, x100 Fast Forward		
DVD WRITER			
ТҮРЕ	-	Built-in	
EVENT HANDLING			
EVENT TYPE	external alarm, tamper, video motion detection, video loss,		
EVENITIFE	disk full, power interruption, system fail, disk usage, overheat		
	Live camera, buzzer, dial back, recording,		
ACTION TYPE	relay control, PTZ, email notification,		
	spot ou	tput (RX368_V2 / RX36	616_V2)
EXTERNAL ALARM		16 x NC/NO	
INPUTS			
RELAY SWITCH			
NO. OF CHANNELS	4		
MAX. RATING	24V AC, 1000mA		
POWER			
VOLTAGE	12V DC		
MAX. RATING	50W	55W	70W
OPERATING ENVIRONME	ENT		
AMBIENT			
TEMPERATURE	$5^{\circ}\mathrm{C} - 40^{\circ}\mathrm{C}$		
RELATIVE HUMIDITY	<85% (no condensation)		
MECHANICAL DESIGN			
DIMENSION	400mm x 365mm x 120mm		
WEIGHT	6.5kg	6.7kg	6.7kg
	Ŭ		č

B. RX324 / RX328 / RX3216

	MODEL			
VIDEO INPUT	RX324	RX328	RX3216	
		CIR, 625 lines, 25 fran	1	
STANDARD	. ,	EIA, 525 lines, 30 fran	1	
		mposite video, 1 V _{p-p} ,		
NO. OF CHANNELS	4	8	16	
VIDEO OUTPUT			1	
	. , , , , , , , , , , , , , , , , , , ,	CIR, 625 lines, 25 fran	1	
STANDARD		EIA, 525 lines, 30 fram		
NO. OF CHANNELS	1	mposite video, 1 V_{p-p} , 1 Video or	it, 1 Spot out	
DISPLAY SCREEN	full, quad	full, quad, 3 x 3	full, quad, 3 x 3, hex	
DISILAT SCREEN	Tun, quau	Tun, quad, 5 x 5	25/30fps D1,	
	25/30fps D1,	25/30fps D1,	100/120fps CIF,	
DISPLAY FRAME RATE	100/120fps CIF	100/120fps CIF,	200/240fps 3 x 3,	
		200/240fps 3 x 3	400/480fps QCIF	
VGA				
SUPPORT	N/A	Optional		
FREQUENCY	N/A	60 / 75 Hz		
RESOLUTION	N/A	1024 x 768	/ 1280 x 1024	
STANDALONE OPERATION				
ТҮРЕ	System c	onfiguration, operatior	n, audit trail	
AUDIO				
INPUT	1 channel, RCA, line	2 channels, RCA, line level		
	level			
		dance : 30k, frequency : 200-3500Hz		
OUTPUT	PA/local output : 1 channel, RCA, line level;			
	Output impedance : 600ohm, frequency : 200-3500Hz			
COMMUNICATION				
NETWORK	RJ-45, 10/100 Base-T Ethernet (auto-sensing)			
CONCURRENT USERS	6(independent)			
SURELINK	support Internet connection assigned with dynamic IP address		h dynamic IP address	
MAX. TRANSMISSION FRAME RATE	20/30fps D1, 50/60fps CIE	25/30fps D1,	100/120fps CIF	
WEB SERVER	50/60fps CIF 25/50fps D1, 100/120fps CI Built-in			
USB		USB2.0, 12Mbps		
	RS-232C · D	· •	us. 8 data bits	
MODEM PORT		RS-232C: DB-9 male, asynchronous, 8 data bits, op 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			
l	o data ono, i stop on, no panty, 2.1 19.2kopo			

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RECORDING			
MODE	manual, schedule, event-driven		
HD TYPE	IDE interface, built-in		
MAX. RECORDING RATE	 (P) : 25fps at 720 X 576 pixels; 100fps at 360 X 288 pixels (N) : 30fps at 720 X 	(P) : 100fps at 72 200fps at 360 (N) : 120fps at 72	X 288 pixels 20 X 480 pixels;
	480 pixels; 120fps at 360 X 240 pixels	240fps at 360	1
PLAYBACK	Forward, Backward, Pause, Step Forward, Step Backward, x10 Fast Forward, x100 Fast Forward		
EVENT HANDLING			
EVENT TYPE	external alarm, tamper, video motion detection, video loss, disk full, power interruption, system fail, disk usage, overheat		
ACTION TYPE	Live camera, buzzer, dial back, recording, relay control, PTZ, email notification, spot output (RX328 / RX3216)		
EXTERNAL ALARM INPUTS	16 x NC/NO		
RELAY SWITCH			
NO. OF CHANNELS	4		
MAX. RATING	24V AC, 1000mA		
POWER			
VOLTAGE	12V DC		
MAX. RATING	60W	65W	80W
OPERATING ENVIRONME	ENT		
AMBIENT	$5^{\circ}\mathrm{C} - 40^{\circ}\mathrm{C}$		
TEMPERATURE	5 C - 40°C		
RELATIVE HUMIDITY	<85% (no condensation)		
MECHANICAL DESIGN			
DIMENSION	400mm x 380mm x 65mm		
WEIGHT	3.2kg	3.4kg	3.4kg

- END -