TeleEye **RX Series**

Video Recording Transmitter

RX304

User Guide

TeleEye
www.TeleEye.com

Notice:

Signal Communications Limited reserves the right to make improvements to the product described in this manual at any time and without notice.

Release Version 1.02

Limits of Liability and Disclaimer of Warranty

Signal Communications Limited has taken care in preparation of this manual, but makes no expressed or implied warranty of any kind and assume no responsibility for errors or omissions. No liability is assumed for incidental or consequential damages in connection with or arising out of the use of the information or accessories contained herein.

Features and specifications are subject to change without prior notice.

FCC Statement on Class B

WARNING

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determine by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- **Reorient or relocate the receiving antenna.**
- **Increase the separation between the equipment and receiver.**
- **Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.**
- **Consult the dealer or an experienced radio/TV technician for help.**

Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.

Declaration

1. **EN 61000-4-2**
   Under the environment with the electrostatic discharge, the sample may malfunction and require user to reset the sample.

2. **EN 61000-4-4**
   Under the environment with the electrical fast transient, the sample may malfunction and require user to reset the sample.

3. **EN61000-4-5**

Under the environment with the electrical surge, the sample may malfunction and require user to reset the sample

Table of Contents

SECTION 5

OSD MENU OPERATION

SECTION 6

ADVANCE OPERATION

APPENDIX A

APPENDIX B

APPENDIX C

SECTION 1

INTRODUCTION

A. Introduction

***Tele*Eye RX Series** Video Recording Transmitter operates with its revolutionary multi-rate video coder to fulfill the highest video coding requirements for simultaneous transmission and recording. Seamless video transmission by ***Tele*Eye 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 25fps and resolution in 720x576 pixels. Real time recording of up to 100/120fps on all video channels can also be achieved at CIF resolution.

***Tele*Eye RX** provides professional and real life security control of premises with its sophisticated event management scheme. It responses to wide range of events triggered by external alarm sensor, video motion, power interruption and tamper. There is an arm/disarm control for the event management mechanism. Every external alarm input is configurable with an individual entry/exit delay, fire zone and tamper detection setting. Various actions like sending video back to a designated receiving PC, video recording, email notification, etc. ***Tele*Eye RX** can also keep a comprehensive log of the events for audit trail.

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

B. Features

Hardware Feature

- Video recording with rate up to 100/120 fps
- Remote and standalone operations
- Composite video output with OSD menu
- SMAC-M multi-rate video coding technology
- Real time video transmission
  - Up to 60fps over LAN for NTSC
  - Up to 50fps over LAN for PAL
- Excellent picture resolution
  - up to 720 x 480 pixels for NTSC
  - up to 720 x 576 pixels for PAL
- 4-video, 1-audio **, 4 relay switch & 4-alarm inputs
- 4 additional detection inputs
- Removable hard disk
- Built-in CD writer

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-alarm 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 **

** : This function will be supported in the ***Tele*Eye RX** transmitter version 2.00.00 or later

C. Removing the Packages

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

- ***Tele*Eye RX** Video Recording Transmitter with Built-in CD 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 (1.2kΩ x 20, 6kΩ x 20)
- Straight-through Ethernet Cable

D. Convention Used in This Manual

" " : Buttons on the ***Tele*Eye RX** transmitter front panel

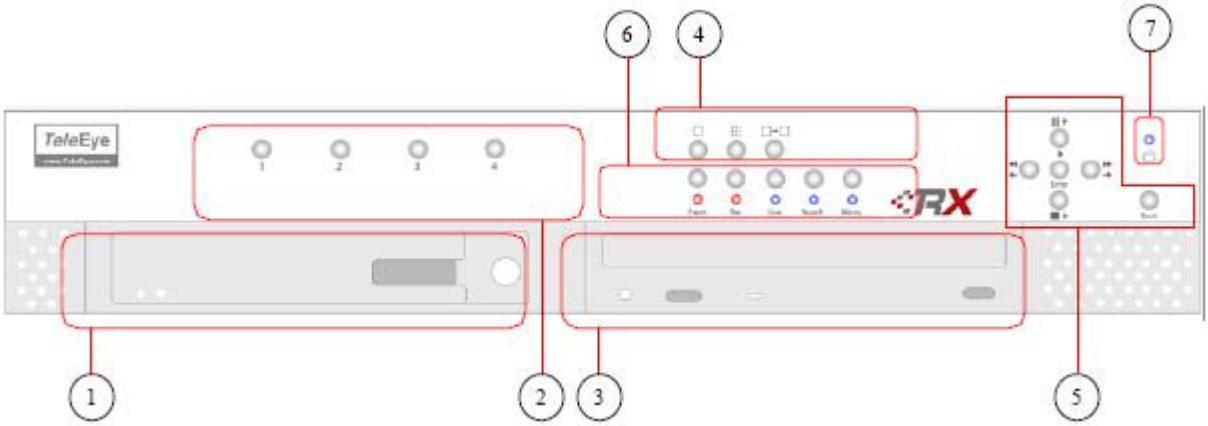
{ } : Hardware Items on the ***Tele*Eye RX** transmitter besides buttons

[ ] : OSD menu or MS Windows menu

( ) : Refers to other section or page

** : Special remarks

E. Front Panel Description



I. Removable Hard Disk

- Built with a removable hard disk cartridge
- **{Key Lock}** and **{Key}**are provided to lock the hard disk from unauthorized removing
- **{Key}** can also be used to enable/disable the power supply to the system

II. Live Camera Control Buttons

- "**1**", "**2**", "**3**", "**4**"
- "**Camera Control**" buttons allow user to fast switch to a specific camera for local monitoring

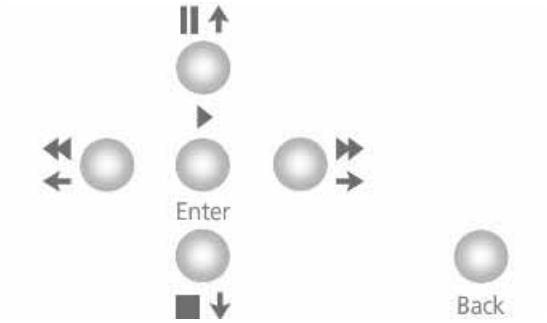
III. Built-in CD Writer

- **{Built-in CD Writer}** allows user to back up video to CD-R or CD-RW (Max size of 650 MB)

IV. Screen Mode Control

- In live mode, the buttons are used to change video display mode in **full screen**, **quad screen** and **sequential mode**

V. Menu Control Buttons / Local Playback Control Buttons / PTZ Control Buttons



In Menu Control Mode,

- The buttons are used as "**Up**", "**Down**", "**Left**", "**Right**", "**Enter**" and "**Back**" control

In Playback Control Mode,

- The functions are "**Pause**", "**Stop**", "**Fast Backward**", "**Fast Forward**", "**Play**" and "**Back**" control

In PTZ Control Mode,

- The functions are "**Up**", "**Down**", "**Left**", "**Right**", "**Zoom In**", and "**Zoom Out**" control

Summary of Control Button

Buttons	Menu Control Mode	Playback Control Mode	PTZ Control Mode
	Up	Pause	Tilt Up
	Down	Stop	Tilt Down
	Left	Rewind	Pan Left
	Right	Forward	Pan Right
Enter	Enter	Play	Zoom In
Back	Back	Back	Zoom Out

Front Panel Description

VI. Mode Control Buttons and LED

- These 5 buttons are used for switching between the control modes
- "**Event**" button : Fast switch to event menu at any time
- "**Rec**" button : Enable/disable normal recording at any time
- "**Live**" button : View live video at any time and enable/disable PTZ in live mode
- "**Search**" button : Fast switch to playback log menu
- "**Menu**" button : Switch to menu for system settings, recording settings and event settings etc

Notification LEDs

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

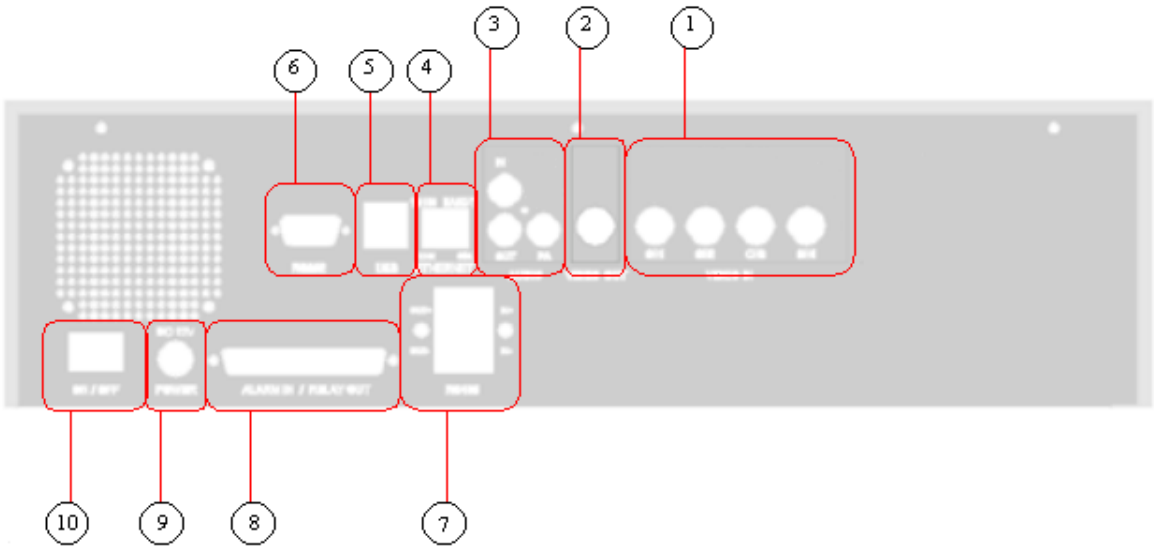
- **{Event LED}** : This LED will blink when event is triggered. It will be turned ON when user press "**Event**" button to search event log
- **{Recording LED}** : This LED will be turned ON when the transmitter is recording
- **{Live LED}** : This LED will be turned ON when user presses "**Live**" button. It indicates live mode
- **{Search LED}** : This LED will be turned ON when user presses the "**Play**" or "**Search**" button. It indicates playback mode
- **{Menu LED}** : This LED will be turned ON when users press "**Menu**" button. It indicates menu mode

VII. Power LED

- **{Power LED}** : This LED will be turned ON continuously when hard disk rack key is locked and power switch is turned ON

Front Panel Description

F. Rear Panel Description



I. Video Input Connectors

- Channel 1 – Channel 4 (for ***Tele*Eye RX304** only)
- **{Standard BNC connectors}** for video source input
- A composite video source from camera should be supplied to these connectors

II. Video Output Connector

- A composite video signal with 1V p-p is output from this connector
- Support PAL or NTSC format
- PAL/CCIR format with 625 lines, 50 fields per second
- NTSC/EIA format with 525 lines, 60 fields per second

III. Audio In/Out Port **

- **{Audio In}** : Connect audio input device (e.g. microphone) with RCA jack to ***Tele*Eye RX** transmitter for recording
- **{Audio Out}** : Connect audio output device (e.g. speaker) with RCA jack to ***Tele*Eye RX** transmitter and generate output audio signal
- **{Audio PA}** : Connect audio output device (e.g. speaker) to ***Tele*Eye RX** transmitter and generate audio signal as remote public addressing enable

** : This function will be supported in the ***Tele*Eye RX** transmitter version 2.00.00 or later.

IV. 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

V. USB

- For support use only

VI. 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	No use	

VII. RS 485 In/Out Port

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

Rear Panel Description

VIII. Relay Out / Alarm In Port

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

IX. Power

- Connect power supply (12V DC, 5A) to ***Tele*Eye RX** transmitter

X. Switch

- Switch on or off the ***Tele*Eye RX** transmitter

Rear Panel Description

SECTION 2

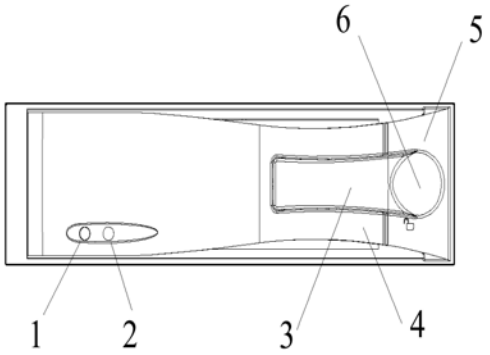
Hard Disk Installation, Formatting and Scanning

A. Hard Disk Installation

***Tele*Eye RX** transmitter supports ATA standard hard disk. User should use the hard disk listed at the hard disk recommendation list on P.18.

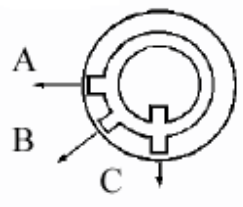
Recommendation : The hard disk is recommended to set to Master Mode. How to set to Master Mode, please refers to the hard disk case or its manual

Hard Disk Front Panel Description



1. HDD Activity indicator
2. Power indicator
3. Active-handle
4. Handle
5. Cartridge frame
6. Key lock

Key Lock Description



Status / Segment	Power status	Security status
A	ON	Locked (Non-removable)
B	OFF	Locked (Non-removable)
C	OFF	Unlocked (Removable)

Hard Disk Installation

Installation Procedure

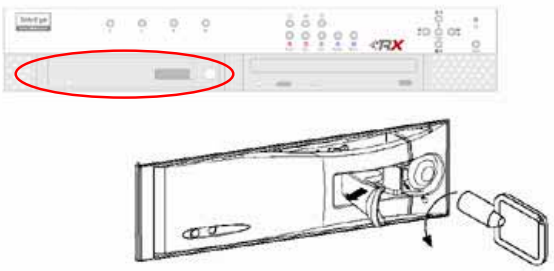
Turn OFF transmitter

Step 1: Press "**Menu**" Menu button, select **[SHUT DOWN]** option and press "**Enter**" Enter button.

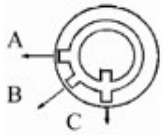
Step 2: **[SHUT DOWN]** menu will pop up and select **[SHUT DOWN]** option and press "**Enter**" Enter button.

Step 3: Select **[YES]** option and press "**Enter**" Enter button to turn off the transmitter. **Switch OFF** the transmitter when the **[IT IS NOW SAFE TO TURN OFF RX]** message pop up.

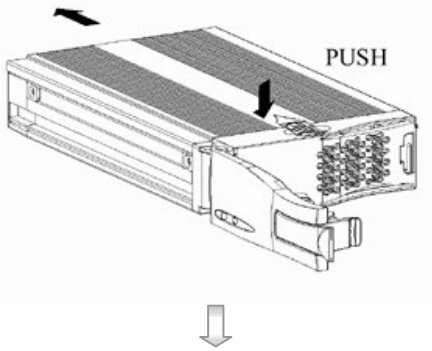
Note that you MUST turn OFF the transmitter when install or remove Hard disk.



Step 4: Pull the active-handle outwards, then use the bundled key provided and insert into the keyhole, turning the key anti-clockwise (position C), then you can pull out the handle.

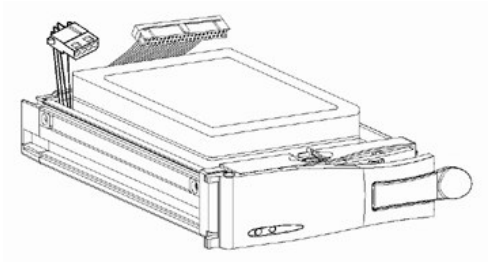


Step 5: Pull the handle outwards to remove the carrier body away from the cartridge frame.

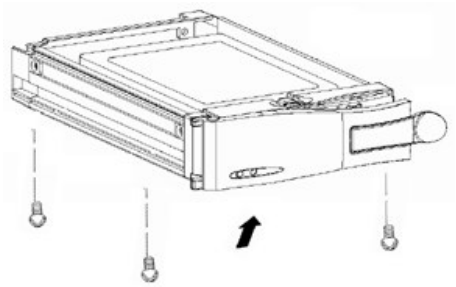


Step 6: Push the release latch to slide the top cover backwards and remove.

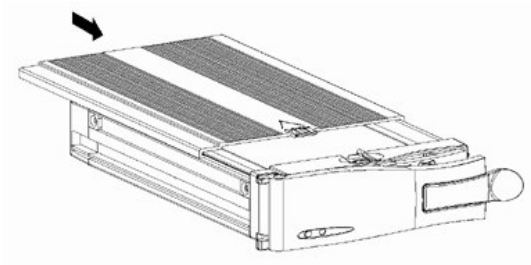
Hard Disk Installation



Step 7: Insert the DC power cable and IDE cable on the HDD

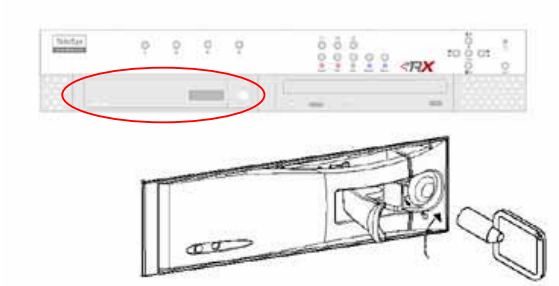


Step 8: Position the HDD into carrier body and secure the HDD using the four screws provided.

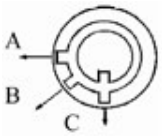


Step 9: Slide the top cover back to the carrier body by sliding forward to secure.

Step 10: Slide the carrier body back into the cartridge frame and push carrier body further into cartridge frame until **fully inserted**.



Step 11: Pull the active-handle outwards, then use the bundled key and insert into the keyhole, turning the key clockwise (position A) to secure the handle.



Hard Disk Installation

B. Hard Disk Formatting

Hard disk formatting will reconstruct the structure of hard disk so that it is readable by ***Tele*Eye RX** transmitter. If you have your own hard disk to install to ***Tele*Eye RX** transmitter, you must perform hard disk formatting.

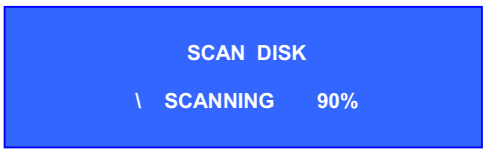
I. New Hard Disk Formatting

It will be used if the hard disk format is **NOT *Tele*Eye RX** transmitter recognized format. Usually, a new hard disk, or a hard disk which has been formatted by MS Windows before needs to do this operation.

Procedure

Step 1: After booting up ***Tele*Eye RX** transmitter, OSD menu will pop up **[INCORRECT DISK FORMAT]** menu. Select **[YES]** option and press "**Enter**" Enter button to format new hard disk

[FORMAT DISK] message board will pop up to show you about the status.

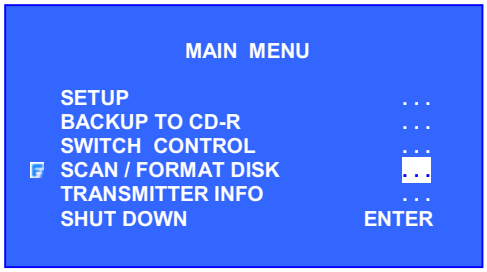


After finishing format process, **[SCAN DISK]** processing board will pop up to show you about the status. The transmitter will restart.

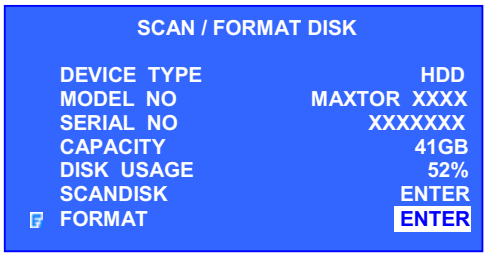
II. Menu Formatting

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.

Procedure



Step 1: Press "**Menu**" button, select **[SCAN/FORMAT DISK]** option and press "**Enter**" button to enter **[SCAN/FORAMAT DISK]** sub menu.



Step 2: Select **[FORMAT]** option press "**Enter**" button.

Warning message board will pop up.

Step 3: Select **[YES]** option and press "**Enter**" button and **[FORMAT DISK]** board will pop up to show you about hard disk format processing status.

Step 4: Press "**Enter**" button to restart transmitter when **[FORMAT FINISHED]** message board pop up. The transmitter will restart

C. Hard Disk Scanning

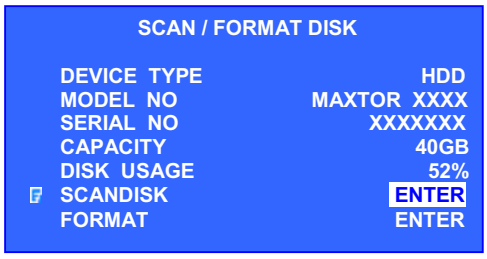
It is a hard disk maintenance function similar to the **Scan Disk** function provided by the Operating System of your personal computer. ***Tele*Eye RX** transmitter provides this function so as to rescue the hard disk when errors found, and to enhance its performance and reliability. After scanning, if there is any damaged file, it will be deleted so that the remaining normal videos can playback.

It will be used in the following cases:

1. You cannot playback the recorded videos
2. You cannot search the desired video from the recording log. Although you can find it, you cannot play it
3. You wonder if the hard disk has any problem

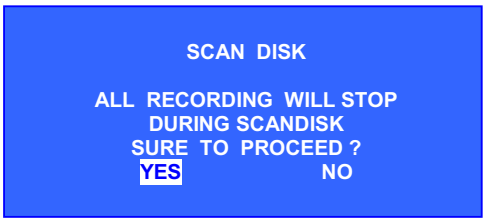
Procedures

Step 1: Press "**Menu**" Menu button, select **[SCAN/FORMAT DISK]** option and press "**Enter**" Enter button to enter **[SCAN/FORAMT DISK]** sub menu.



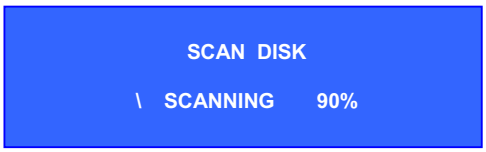
There is information about the hard disk. If not, please check that the hard disk is installed or not.

Step 2: Select **[SCANDISK]** option press "**Enter**" Enter button.



Warning message board will pop up.

Step 3: Select **[YES]** option and press "**Enter**" Enter button to start the **[SCANDISK]** process.



Step 4: **[SCAN DISK]** processing board will pop up to show you about the status. After finishing scan disk, it will return to the **[SCAN / FORMAT DISK]** menu.

Hard Disk Scanning

D. Hard Disk Recommendation List

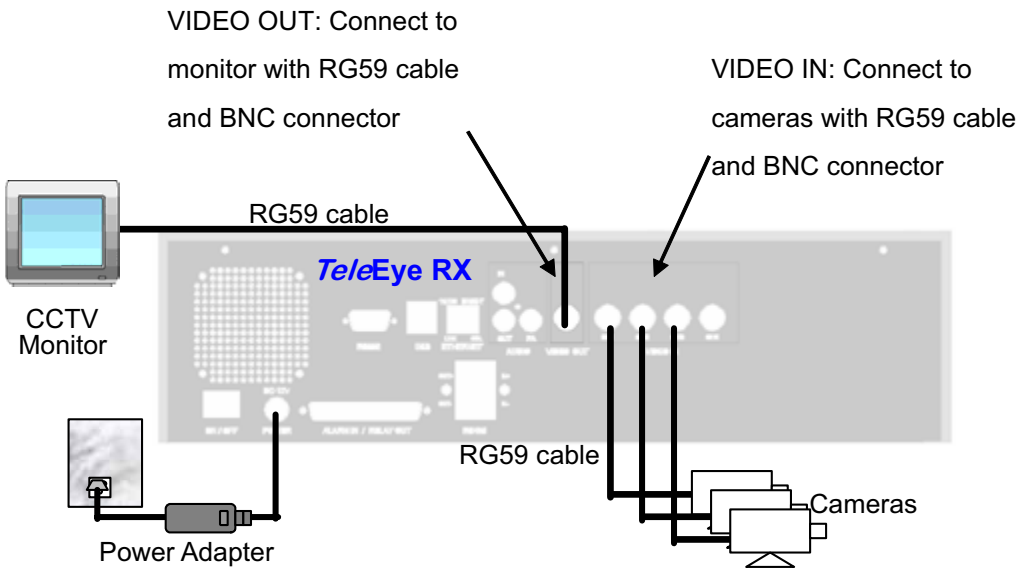
Harddisk Capacity	Product Line	Model No.
40GB	Maxtor DiamondMax 8 (7200 RPM, 2MB Cache)	6E040L0
80GB	Maxtor DiamondMax Plus9(7200 RPM, 2MB Cache)	6Y080L0
	Maxtor DiamondMax Plus9(7200 RPM, 8MB Cache)	6Y080P0
120GB	Maxtor DiamondMax Plus9(7200 RPM, 2MB Cache)	6Y120L0
	Maxtor DiamondMax Plus9(7200 RPM, 8MB Cache)	6Y120P0
160GB	Maxtor DiamondMax Plus9(7200 RPM, 2MB Cache)	6Y160L0
	Maxtor DiamondMax Plus9(7200 RPM, 8MB Cache)	6Y160P0
200GB	Maxtor DiamondMax Plus10(7200 RPM, 8MB Cache)	6B200P0
250GB	Maxtor MaXLine PlusII(7200 RPM, 8MB Cache)	7Y250P0
	Maxtor DiamondMax 10(7200 RPM, 16MB Cache)	6B250R0
300GB	Maxtor DiamondMax 10(7200 RPM, 16MB Cache)	6L300R0
400GB	Hitachi Deskstar (7200 RPM)	HDS724040KLAT80
500GB	Hitachi Deskstar (7200 RPM)	HDS725050KLAT80

SECTION 3

Basic Installation for Local and Remote Monitoring

A. Setup *Tele*Eye RX for Local CCTV Monitor

Connection Topology



Equipment

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

Setup Procedure

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

Note that the cameras system is either NTSC or PAL and suppose all cameras are used the SAME system forma.(For PTZ camera installation, please refer P.148 to Advance Operation Section of the User Guide).

Step 2: Connect CCTV monitor to ***Tele*Eye RX {Video Output}** with RG59 cable and BNC connector.

Step 3: Install and use the bundled key to lock the **{Hard Disk Rack}** with hard disk to the ***Tele*Eye RX**.

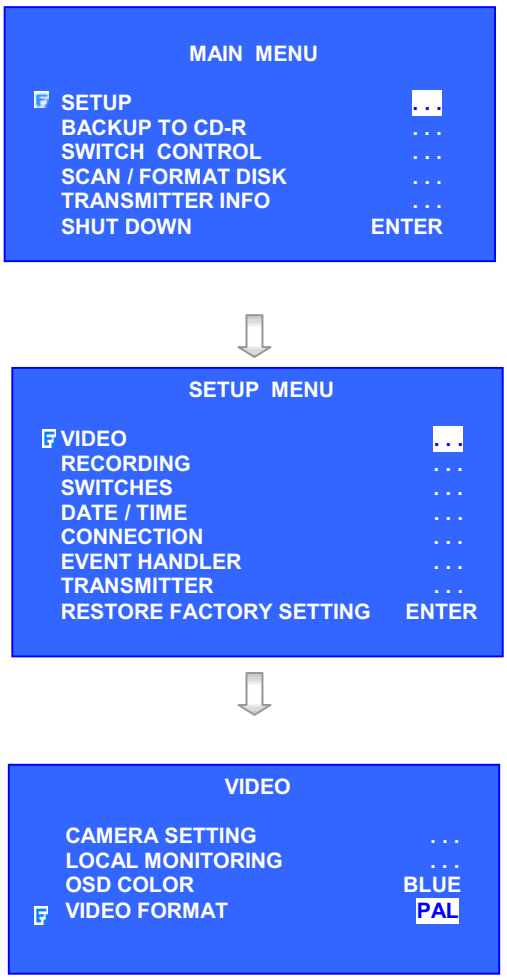
Note that you cannot perform any recording and playback if there is no hard disk installed but still has live video monitoring. (For hard disk installation details, please refer P.11 to Hard Disk Installation Section of the User Guide)

Step 4: Plug in the power adapter (12V DC, 5A supply) to the ***Tele*Eye RX**.

Step 5: Turn on the power of ***Tele*Eye RX**, camera and CCTV 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 follow:

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

Setup *Tele*Eye RX for Local CCTV Monitor



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

Step 7: Use "**Up**" or "**Down**" button to select **[SETUP]** option and press "**Enter**" button to enter the **[SETUP]** sub-menu.

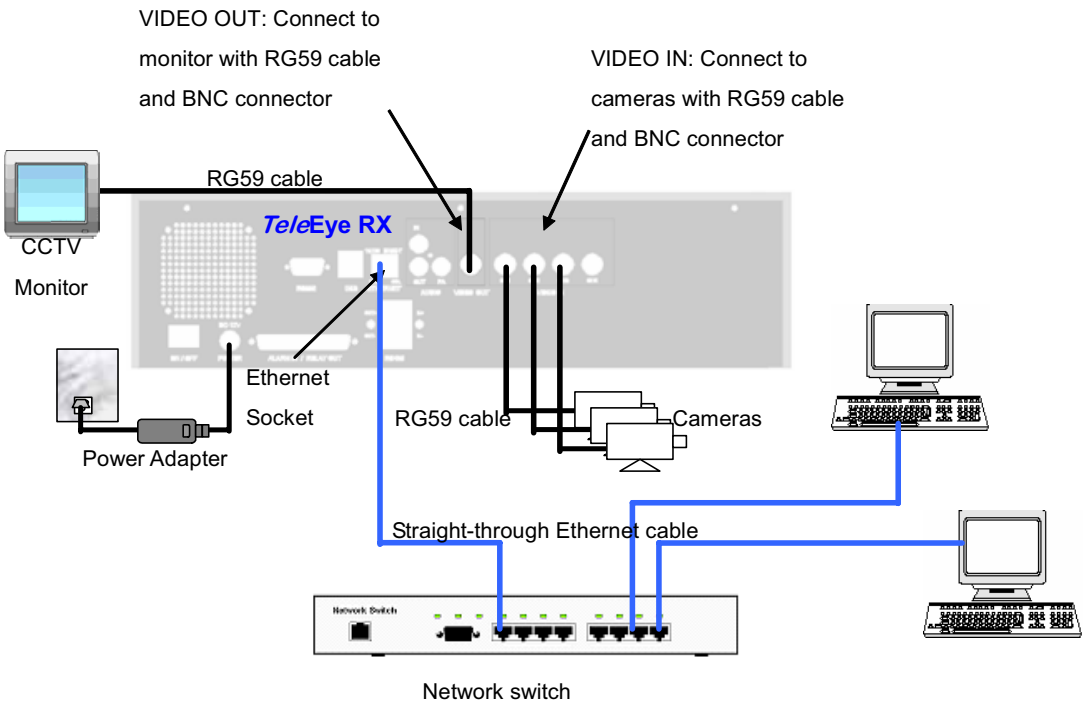
Step 8: Use "**Up**" or **Down**" button to select **[VIDEO]** option and press "**Enter**" button to enter the **[VIDEO]** sub-menu.

Step 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).

Step 10: You can always press "**Live**" button to exit any menu operation and start live monitoring.

B. Setup *Tele*Eye RX for LAN Connection with Static IP

Connection Topology



Equipment

- ***Tele*Eye RX** Transmitter
- 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 2G Hz or above
- **RAM** : 256 MB or above
- **Display**: 800x600, hi-color or better
- **OS** : MS Windows 2000, XP

Setup Procedure

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

Note that the cameras system is either NTSC or PAL and suppose all cameras are used the SAME system format.(For PTZ camera installation, please refer P.148 to Advance Operation Section of the User Guide).

Step 2: Connect CCTV monitor to ***Tele*Eye RX {Video Output}** with RG59 cable and BNC connector.

Step 3: Install and use the bundled key to lock the **{Hard Disk Rack}** with hard disk to the ***Tele*Eye RX**.

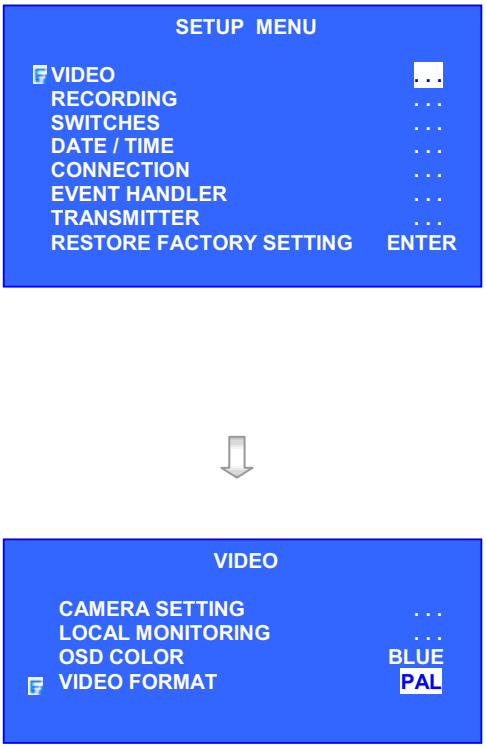
Note that you cannot perform recording and playback if there is no hard disk installed but still has live video monitoring. (For hard disk installation details, please refer P.11 to Hard Disk Installation Section of the User Guide)

Step 4: Connect the power adapter (12V DC, 5A supply) to the ***Tele*Eye RX**.

Step 5: Turn on the power of ***Tele*Eye RX**, camera and CCTV 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 follow:

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

Setup *Tele*Eye RX for LAN Connection with Static IP



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

Step 7: Use "**Up**" or "**Down**" button to select **[SETUP]** option and press "**Enter**" Enter button to enter the **[SETUP]** sub-menu.

Step 8: Select **[VIDEO]** option and press "**Enter**" Enter button to enter the **[VIDEO]** sub-menu

Step 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).

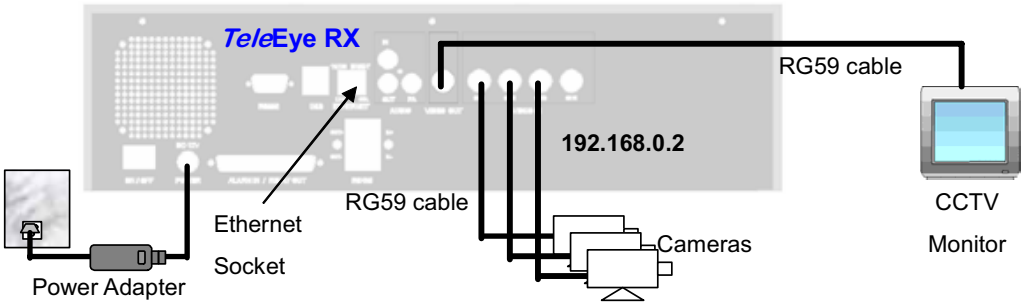
Step 10: You can always press "**Live**" button to exit any menu operation and start live monitoring.

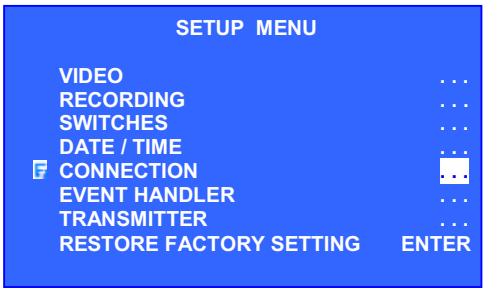
Setup ***Tele*Eye RX** transmitter IP through CCTV monitor, please go to **step 11a**.

Setup ***Tele*Eye RX** transmitter IP through PC, through PC, please go to **step11b**.

Setup *Tele*Eye RX for LAN Connection with Static IP

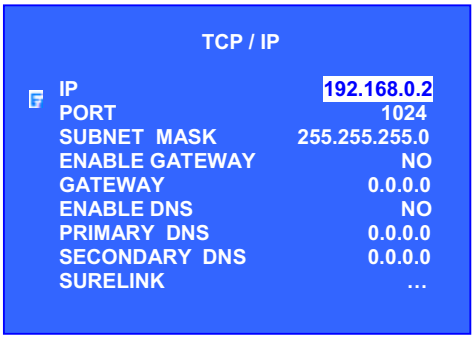
Step 11a: Configure ***Tele*Eye RX** transmitter IP setting through CCTV Monitor





- Press the "**Menu**" button such that the **OSD main menu** opens on the monitor.
- Use "**Up**" or "**Down**" button to select **[SETUP]** option and press "**Enter**" Enter button to enter **[SETUP]** sub menu.
- Select **[CONNECTION]** option and press "**Enter**" Enter button to enter connection setting menu.

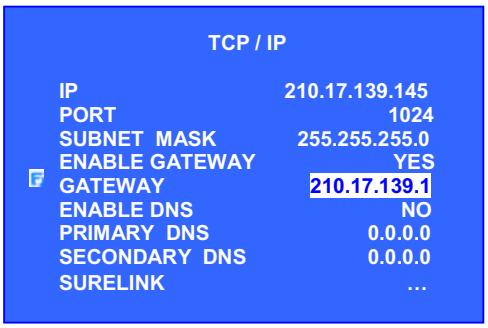
- Select **[TCP/IP]** option and Press "**Enter**" Enter button



- Select **[IP]** option and press "**Enter**" Enter button. IP address consists of **four fields**. Each field can assign a number from **0 to 255**

Setup *Tele*Eye RX for LAN Connection with Static IP

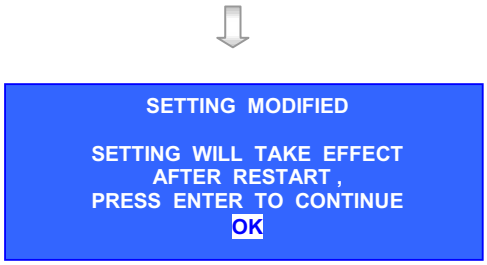
- Use "**Left**" or "**Right**" button to select field and use "**Up**" or "**Down**" button to set number.
- Press "**Enter**" Enter button to save the change and return previous menu.



- 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 that the DNS setting is optional which is useful for* sureLINK, *time synchronization** or e-mail notification function**.

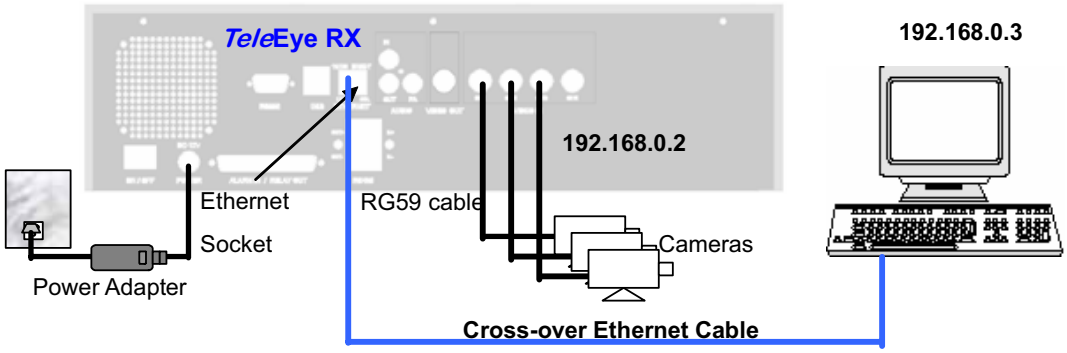
** : This function will be supported in the ***Tele*Eye RX** transmitter version 2.00.00 or later

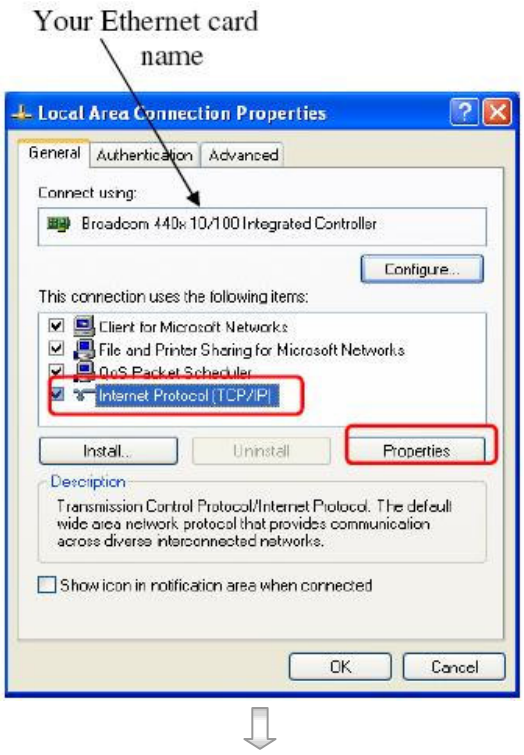


- Press "**Live**" Live button, then **[SETTING MODIFIED]** message board will pop up. Press "**Enter**" Enter button to restart the ***Tele*Eye RX**.

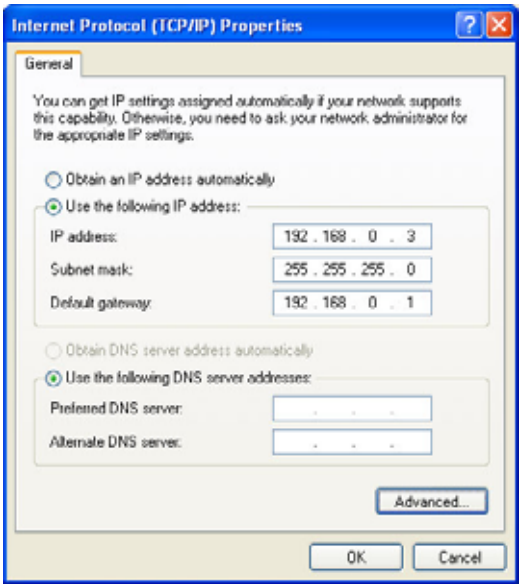
Setup *Tele*Eye RX for LAN Connection with Static IP

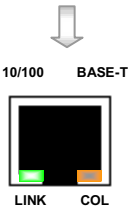
Step 11b: Configure ***Tele*Eye RX** transmitter IP setting through PC

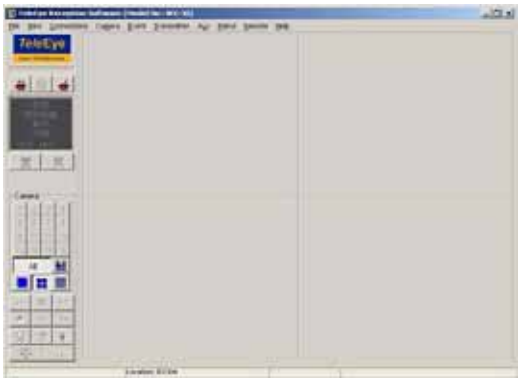




- In Windows 2000/XP desktop, select **Start** > **Control Panel**
- Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.
- Choose **Internet Protocol (TCP/IP)** and click **Properties**

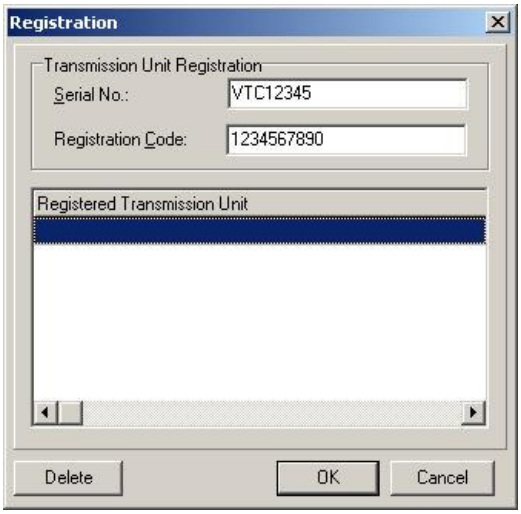




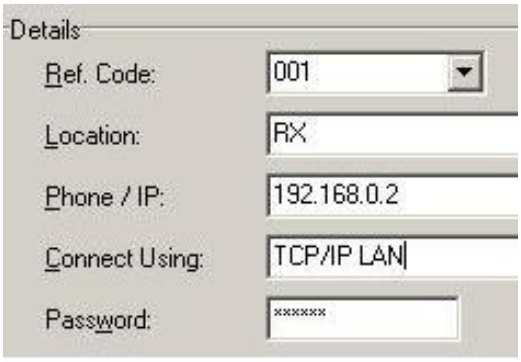


- Enter an **IP address, subnet mask** and **Default gateway**. ***Note that IP address should be "192.168.0.xx" except "192.168.0.2" which is Tele*Eye RX *default IP address.***
- Enter the **Preferred** and **Alternate DNS server**, if necessary.
- Click **OK** to activate the new IP.
- You have to 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.
- Connect the PC Ethernet socket to the transmitter Ethernet socket at rear panel of the transmitter with **cross-over** Ethernet cable. Check if the **{LINK LED}** of the transmitter is turned **ON**.
- 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)

Setup *Tele*Eye RX for LAN Connection with Static IP



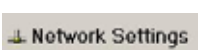
- Choose **[Transmitter]** → **[Registration]** to register the ***Tele*Eye RX** transmitter. User needs to input transmitter serial number and registration code.
  For example :
  Serial No. : VTC12345
  Registration Code : 1234567890



- 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**

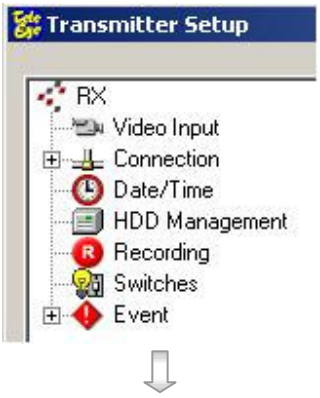
- Press **[Connect]** 

icon to connect your PC to the transmitter. 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.

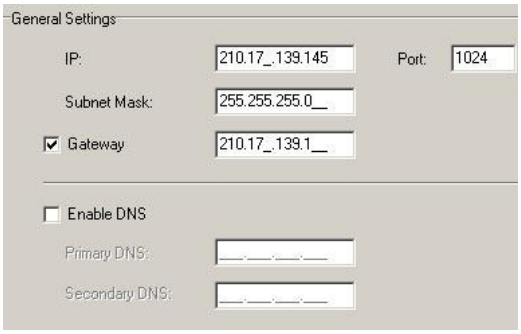
- Press **[Transmitter Setup]**  icon to show ***Tele*Eye RX** configuration menu.
- Select **[Connection]** and press **[Network Settings]** 

icon to

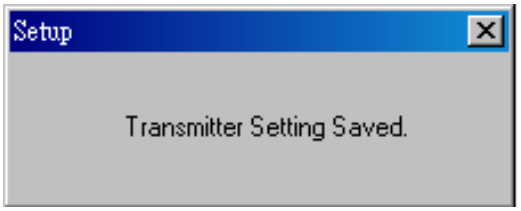
Setup *Tele*Eye RX for LAN Connection with Static IP



Settings]  icon to configure network setting.

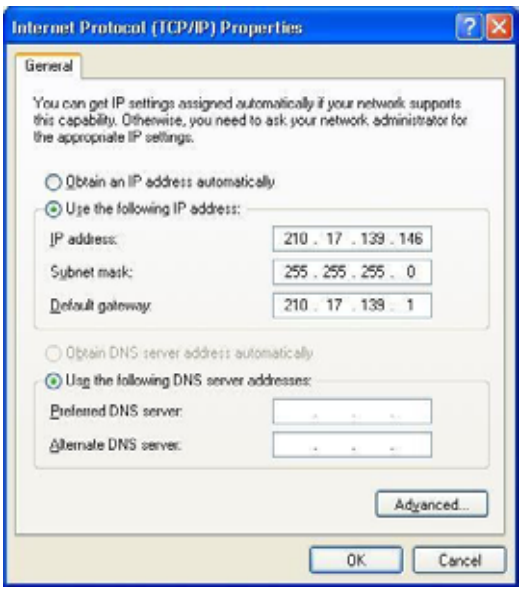


- Change the IP from **192.168.0.2** to **210.17.139.145** (for example). Gateway setting is used for WAN. Primary and Secondary DNS setting are used for ***sure*LINK**, time synchronization ** or e-mail notification function **.
  ** : This function will be supported in the ***Tele*Eye RX** transmitter version 2.00.00 or later



- Press **[Apply]**  icon to save the network setting and pop up the **message board**. After several seconds, the transmitter will **restart automatically.**

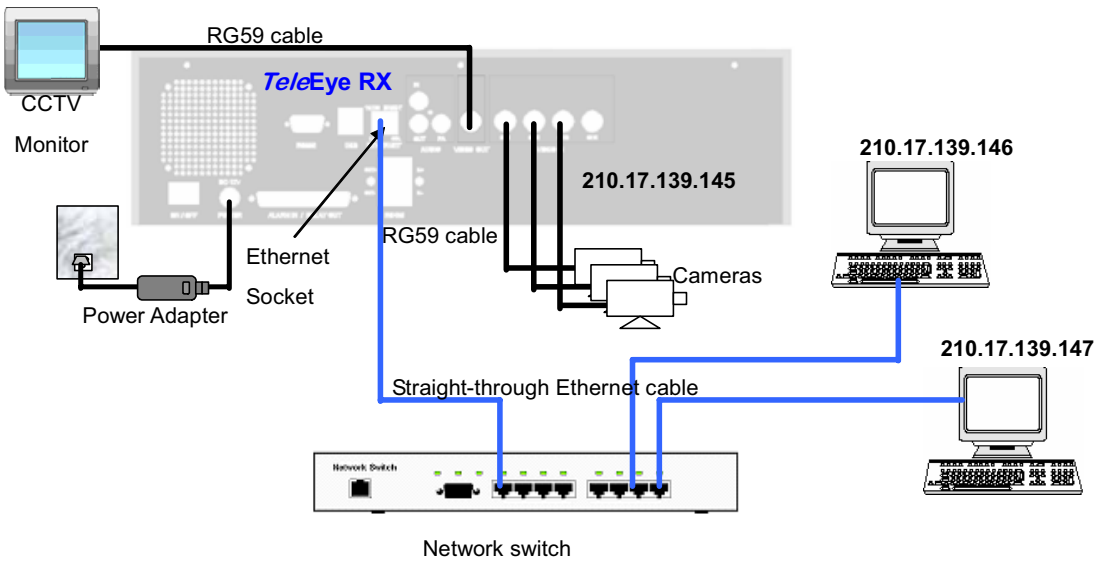
Setup *Tele*Eye RX for LAN Connection with Static IP



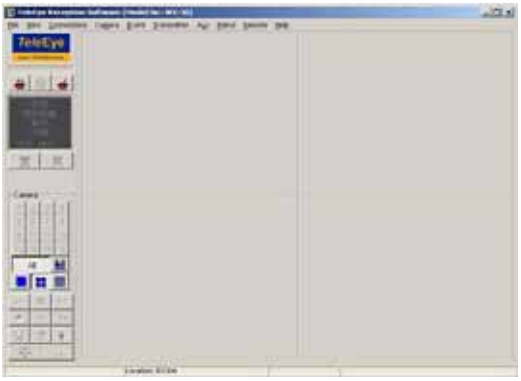
- In Windows 2000/XP desktop, select **Start** > **Control Panel**
- Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.
- Choose **Internet Protocol (TCP/IP)** and click **Properties**
- Enter the **IP address, subnet mask** and **Default gateway** for the PC to **restore to its original network configuration**. ***Note that the first 3 field of IP address should be same as Tele*Eye RX *transmitter IP and gateway address. IP address is "210.17.139.146" and gateway address is "210.17.139.1" in this example.***
- Click **OK** to apply the setting

Step 12: Disconnect the ***Tele*Eye RX** transmitter and current PC. Reconnect the transmitter and current PC to the LAN network through **straight-through Ethernet cable**.

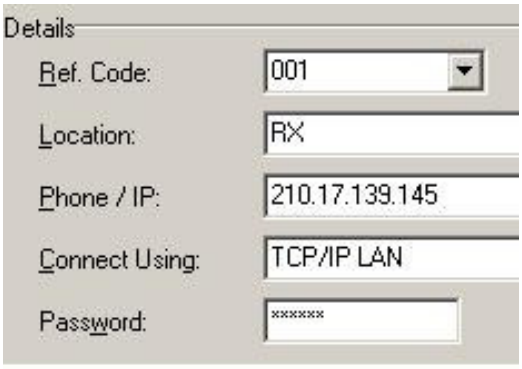
Step 13: Check Ethernet socket of both ***Tele*Eye RX** transmitter and PC to ensure that the **{GREEN LINK LED}** turns ON. Then connection diagram is shown as follows:



Setup *Tele*Eye RX for LAN Connection with Static IP



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

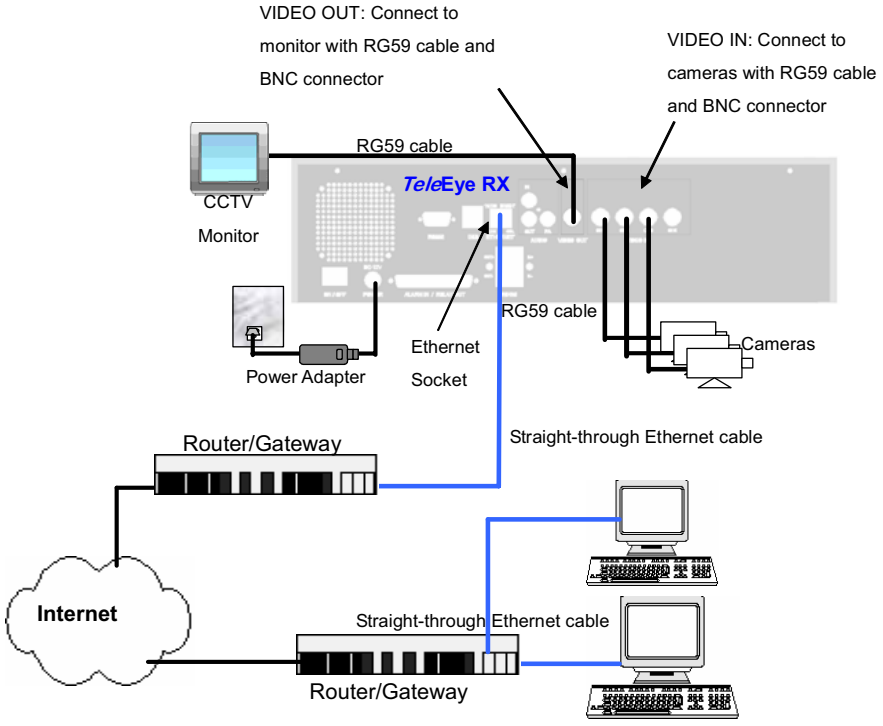


Step 15: Press **[Connect]** icon to pop up the **[Connect Window]**. For **example**, type and select the following setting :
Phone/IP : 210.17.139.145
Connect Using: TCP/IP LAN
Password: 000000

Step 16: Press **[Connect]** Connect icon to connect your PC and the transmitter. 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.

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

Connection Topology



Remark for Internet Connection Definition

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

Equipment

- ***Tele*Eye RX** Transmitter
- 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 2G Hz or above
- **RAM** : 256 MB or above
- **Display**: 800x600, hi-color or better
- **OS** : MS Windows 2000, XP

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

Setup Procedure

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

Note that the cameras system is either NTSC or PAL and suppose all cameras are used the SAME system format. (For PTZ camera installation, please refer P.148 to Advance Operation Section of the User Guide).

Step 2: Connect CCTV monitor to ***Tele*Eye RX {Video Output}** with RG59 cable and BNC connector.

Step 3: Install and use the bundled key to lock the **{Hard Disk Rack}** with hard disk to the ***Tele*Eye RX**.

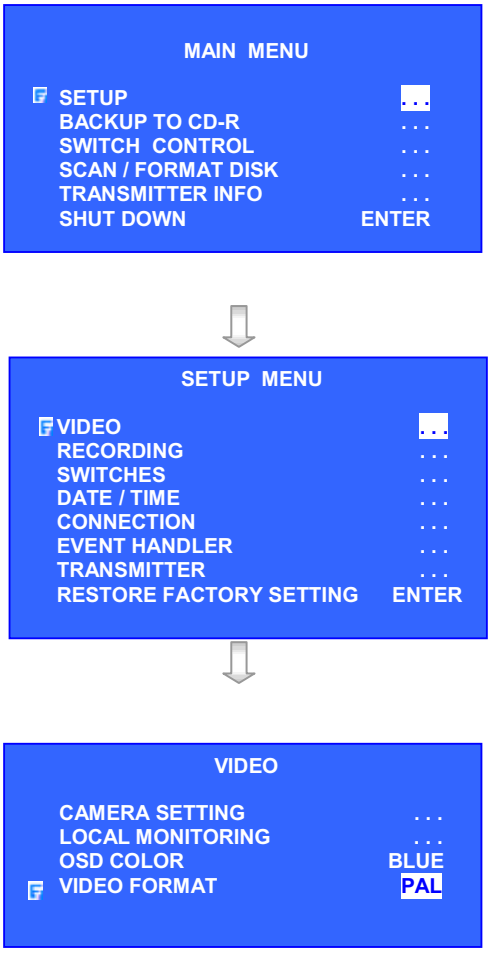
Note that you cannot perform recording and playback if there is no hard disk installed but still has live video monitoring. (For hard disk installation details, please refer P.11 to Hard Disk Installation Section of the User Guide)

Step 4: Connect the power adapter (12V DC, 5A supply) to the ***Tele*Eye RX**.

Step 5: Turn on the power of ***Tele*Eye RX**, camera and CCTV 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 follow:

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

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



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

Step 7: Use "**Up**" or "**Down**" button to select **[SETUP]** option and press "**Enter**" Enter button to enter the **[SETUP]** sub-menu.

Step 8: Select **[VIDEO]** option and press "**Enter**" Enter button to enter the **[VIDEO]** sub-menu.

Step 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).

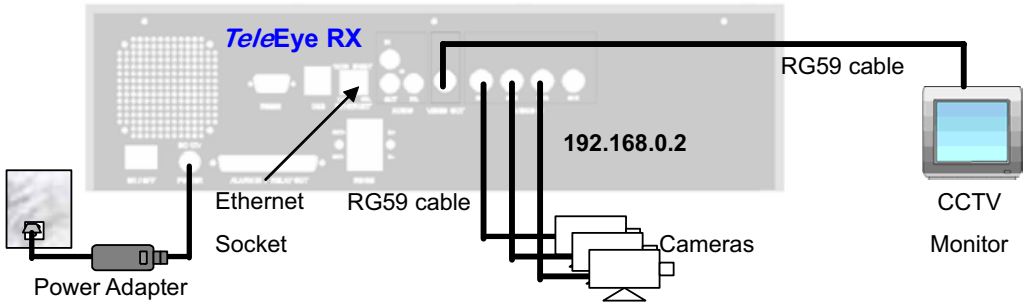
Step 10: You can always press "**Live**" button to exit any menu operation and start live monitoring.

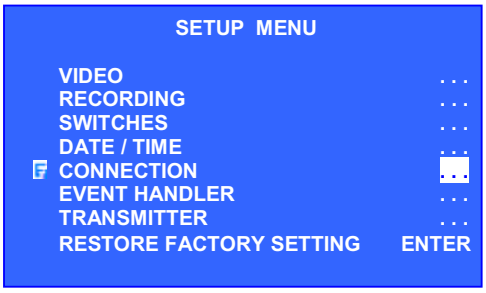
Setup ***Tele*Eye RX** transmitter IP through CCTV monitor, please go to **step 11a**.

Setup ***Tele*Eye RX** transmitter IP through PC, through PC, please go to **step11b**.

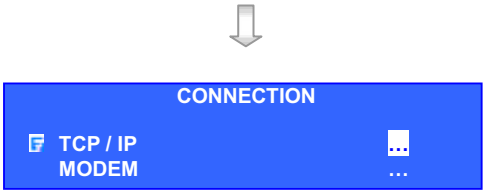
Setup *Tele*Eye RX for Broadband or Narrowband Internet Connection with Static IP

Step 11a: Configure ***Tele*Eye RX** transmitter IP setting through CCTV Monitor

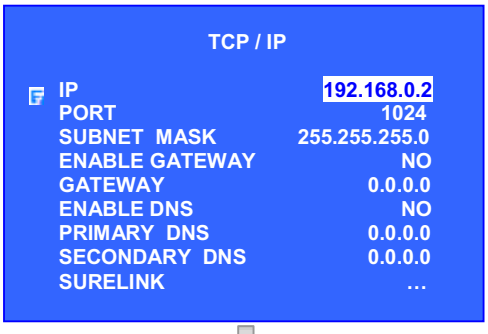




- Press the "**Menu**" button such that the **OSD main menu** pops up on the monitor.
- Use "**Up**" or "**Down**" button to select **[SETUP]** option and press "**Enter**" Enter button.
- Select **[CONNECTION]** option and press "**Enter**" Enter button



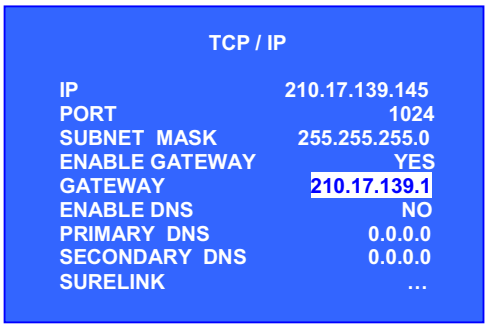
- Select **[TCP/IP]** option and Press "**Enter**" Enter button



Select **[IP]** option and press "**Enter**" Enter button. IP address consists of **four fields**. Each field can assign a number from **0 to 255**.

Setup *Tele*Eye RX for Broadband or Narrowband Internet Connection with Static 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 previous menu.



- Follow the network setting and assign valid subnet mask to **[SUBNET MASK]** and select **[ENABLE GATEWAY]** option and input **[GATEWAY]** option in similar way.
- Set the Gateway value (for example) to **210.17.139.1**

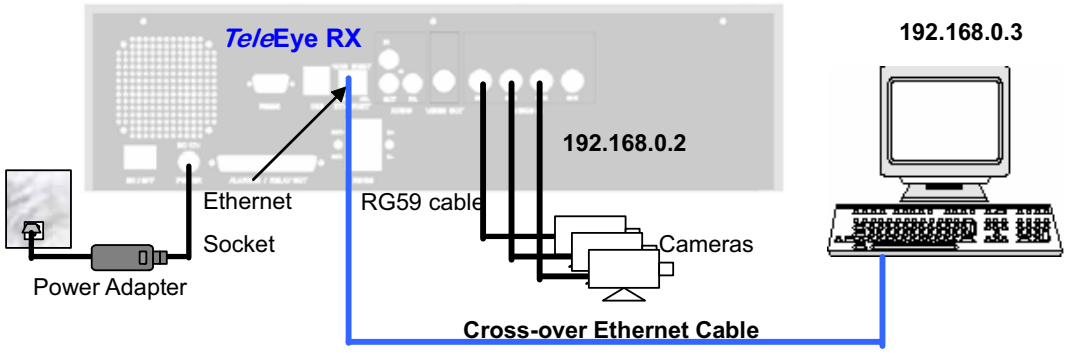
  Note that the DNS setting is optional which is useful for* sureLINK, *time synchronization** or e-mail notification function**.

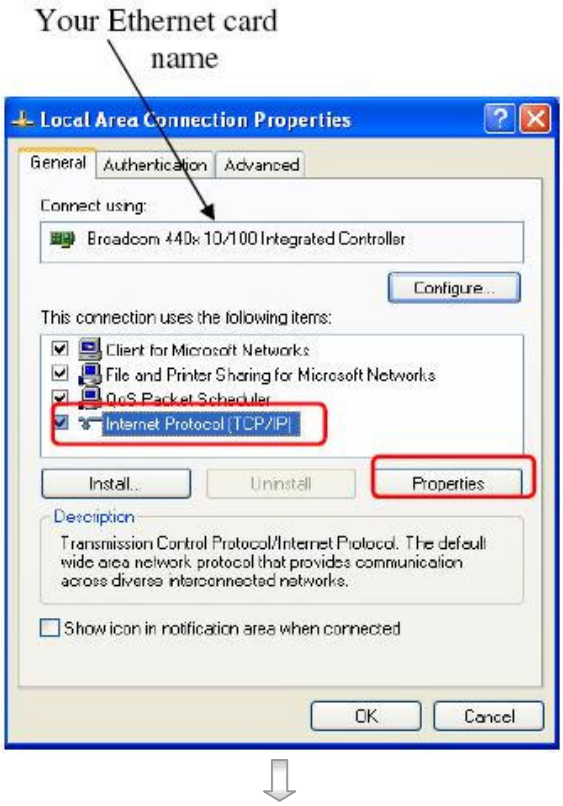
  ** : This function will be supported in the ***Tele*Eye RX** transmitter version 2.00.00 or later

- Press "**Live**" button and **[SETTING MODIFIED]** message board will pop up. Press "**Enter**" button to restart the transmitter.

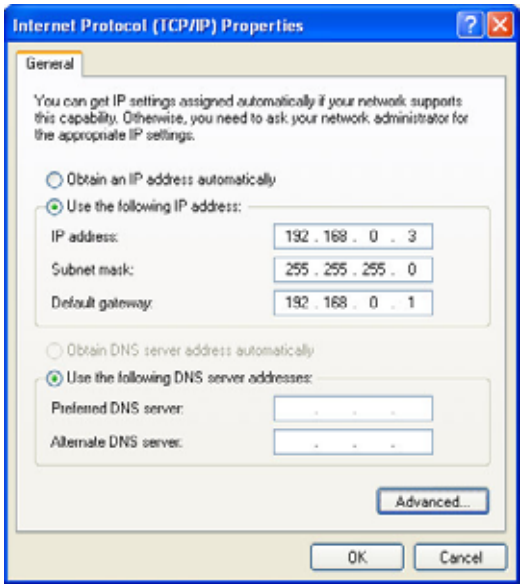
Setup *Tele*Eye RX for Broadband or Narrowband Internet Connection with Static IP

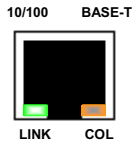
Step 11b: Configure ***Tele*Eye RX** transmitter IP setting through PC

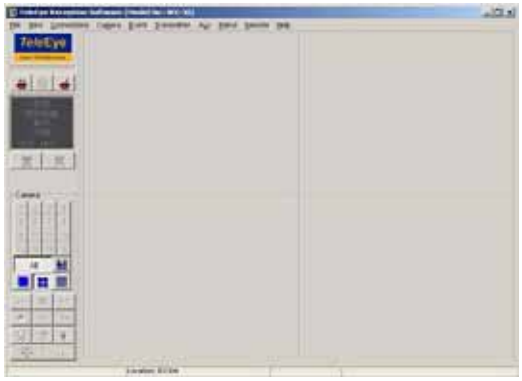




- In Windows 2000/XP desktop, select **Start** > **Control Panel**
- Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.
- Choose **Internet Protocol (TCP/IP)** and click **Properties**

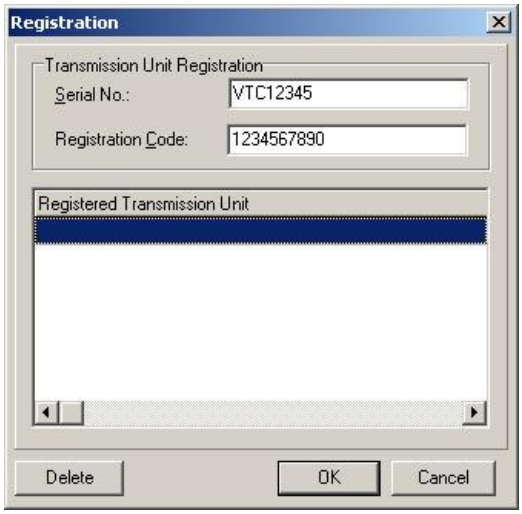


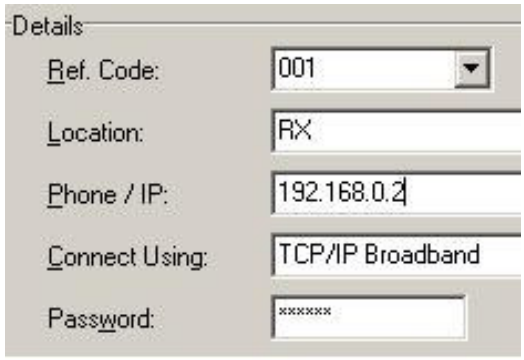




- Enter an **IP address, subnet mask** and **Default gateway**. ***Note that IP address should be "192.168.0.xx" except "192.168.0.2" which is Tele*Eye RX *default IP address.***
- Enter the **Preferred** and **Alternate DNS server**, if necessary.
- Click **OK** to activate the new IP.
- You have to 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.
- Connect the PC Ethernet socket to the transmitter Ethernet socket at rear panel of the transmitter with **cross-over** Ethernet cable. Check if the **{LINK LED}** of the transmitter is turned **ON**.
- 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)

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



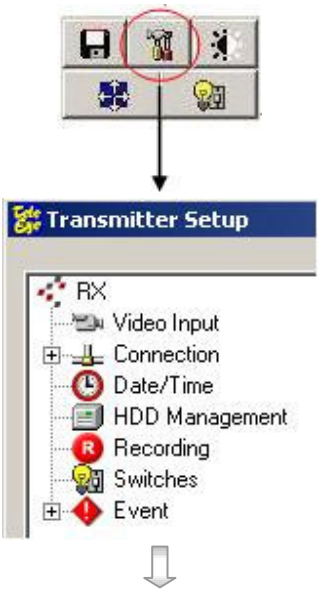


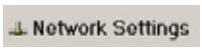
- Choose **[Transmitter]** → **[Registration]** to register the ***Tele*Eye RX** transmitter. User needs to input transmitter serial number and registration code.
  For example :
  Serial No. : VTC12345
  Registration Code : 1234567890

- 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**

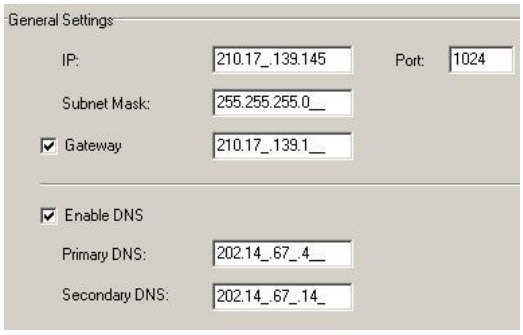
- Press **[Connect]** Connect icon to connect your PC and the transmitter. The video appears on the WX-30 if success. Otherwise, the **[Warning]** board will pop up and show you failure message. For failure case, please press **[Connect]** icon to check that the connection setting is valid or not.

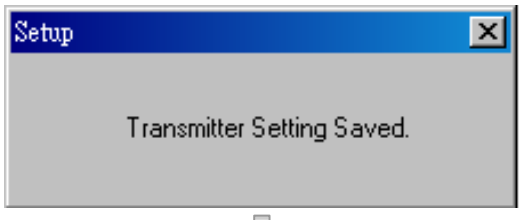
Setup *Tele*Eye RX for Broadband or Narrowband Internet Connection with Static IP



- Press **[Transmitter setup]**  icon to show ***Tele*Eye RX** configuration menu.
- Select **[Connection]** and press **[Network Settings]** 

icon to configure network setting.

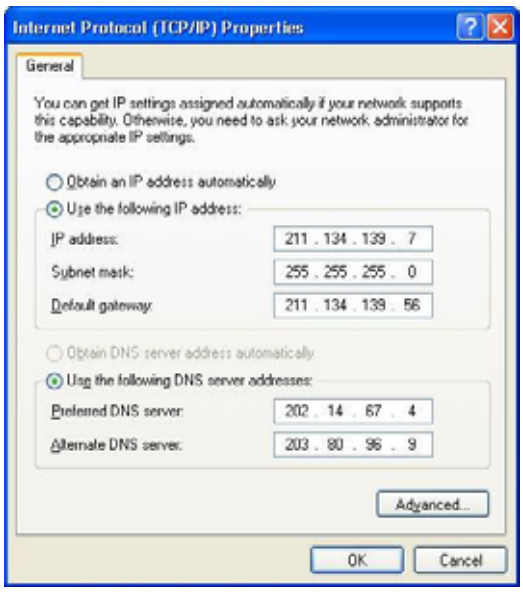




- Change the **IP** from **192.168.0.2** to (for example) **210.17.139.145** and **Gateway** setting **210.17.139.1** (for example). Primary and Secondary DNS setting (for example) are used for ***sure*LINK**, time synchronization** or e-mail notification function **.
  ** : This function will be supported in the ***Tele*Eye RX** transmitter version 2.00.00 or later
- Press **[Apply]** 

icon to save the network setting and pop up the **message board**. After several seconds, the transmitter will **restart automatically.**

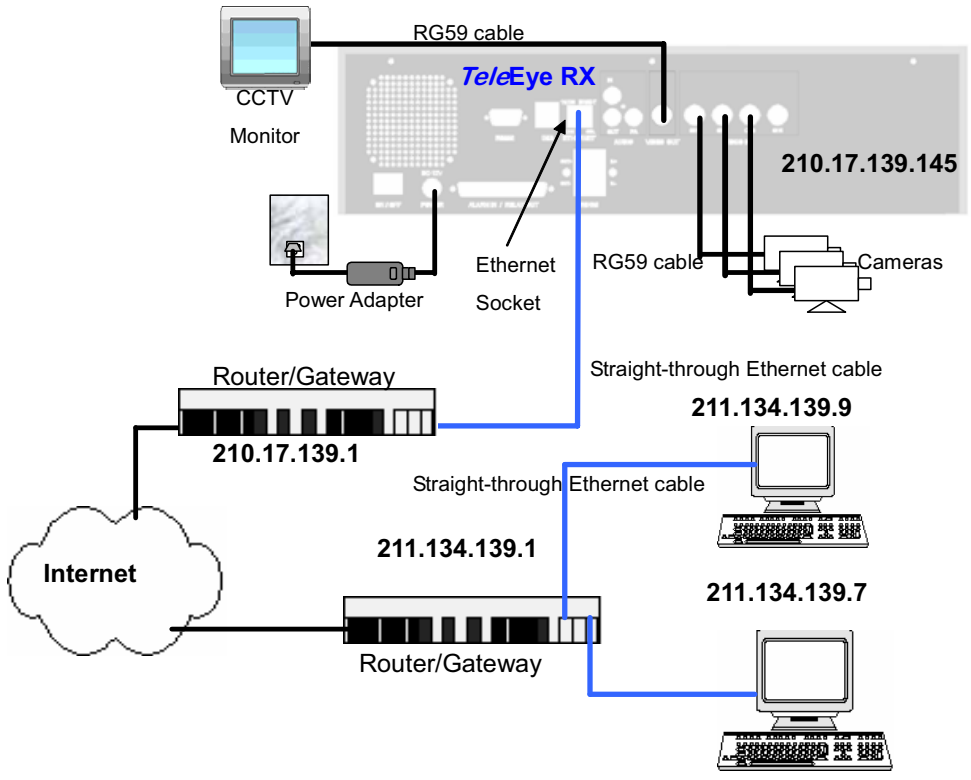
Setup *Tele*Eye RX for Broadband or Narrowband Internet Connection with Static IP



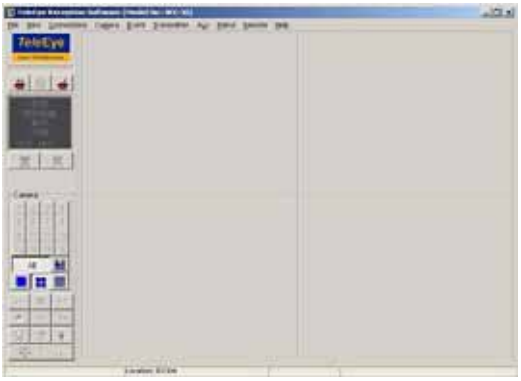
- In Windows 2000/XP desktop, select **Start > Control Panel**
- Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.
- Choose **Internet Protocol (TCP/IP)** and click **Properties**
- Enter the **IP address, subnet mask** and **Default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

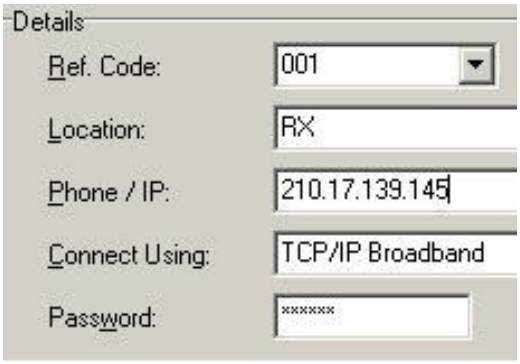
Step 12: Disconnect the transmitter and current PC. Reconnect the transmitter and current PC to the Internet network through **straight-through Ethernet cable**.

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



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





Step14: Configure the network setting for ***Tele*Eye RX** transmitter and your PC if necessary, such as router/gateway port mapping (select router/gateway IP as IP provided by your ISP and the transmitter IP as IP provided by the router/gateway), firewall, etc. (Please refers to the manual of your router/gateway.)

Step15: Run **WX-30** software at any network PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)

Step 16: Press **[Connect]**  icon to pop up the **[Connect Window]**. For **example**, type and select the following setting :

Broadband Connection :

Phone/IP : 210.17.139.145

Connect Using: TCP/IP Broadband

Password: 000000

OR

Narrowband Connection :

Phone/IP : 210.17.139.145

Connect Using: TCP/IP Narrowband

Password: 000000

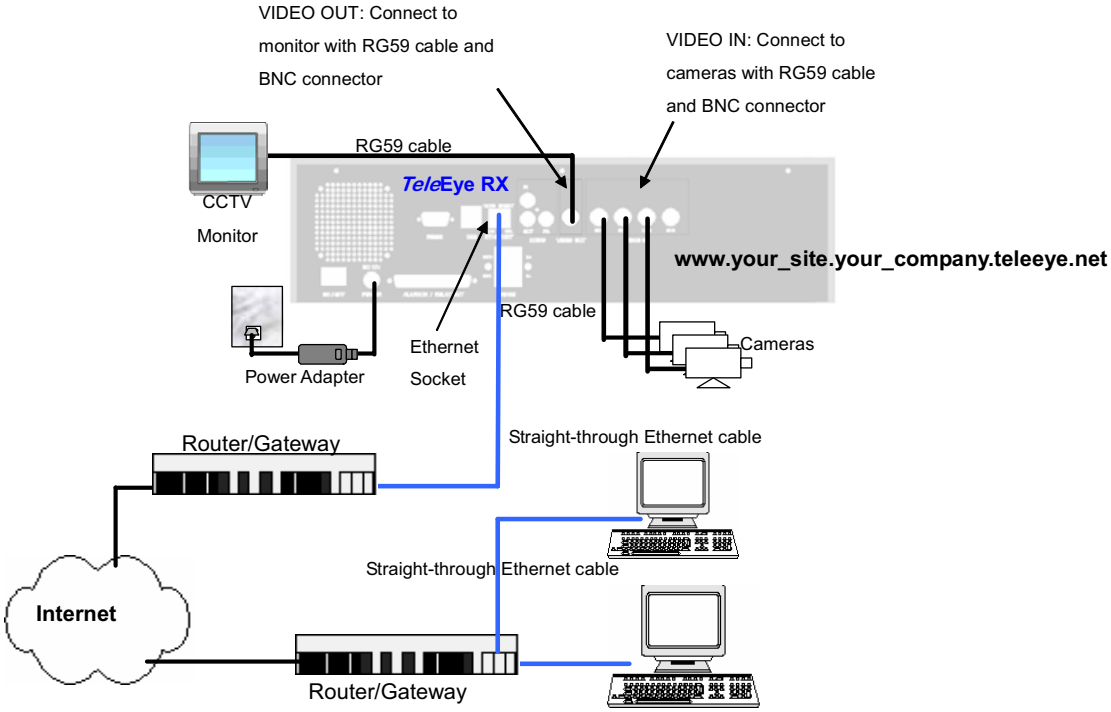
Step 17: Press **[Connect]** 

icon to connect your PC and the transmitter. 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.

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

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

Connection Topology



Remark for Internet Connection Definition

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

Equipment

- ***Tele*Eye RX** Transmitter
- 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 2G Hz or above
- **RAM** : 256 MB or above
- **Display**: 800x600, hi-color or better
- **OS** : MS Windows 2000, XP

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

Setup Procedure

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

Note that the cameras system is either NTSC or PAL and suppose all cameras are used the SAME system format. (For PTZ camera installation, please refer P.148 to Advance Operation Section of the User Guide).

Step 2: Connect CCTV monitor to ***Tele*Eye RX {Video Output}** with RG59 cable and BNC connector.

Step 3: Install and use the bundled key to lock the **{Hard Disk Rack}** with Hard disk to the ***Tele*Eye RX**.

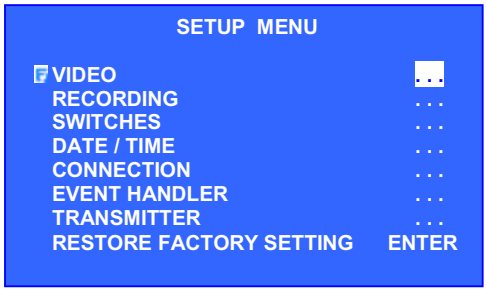
Note that you cannot perform recording and playback if there is no hard disk installed but still has live video monitoring. (For hard disk installation details, please refer P.11 to Hard Disk Installation Section of the User Guide)

Step 4: Connect the power adapter (12V DC, 5A supply) to the ***Tele*Eye RX**.

Step 5: Turn on the power of ***Tele*Eye RX**, camera and CCTV 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 follow:

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

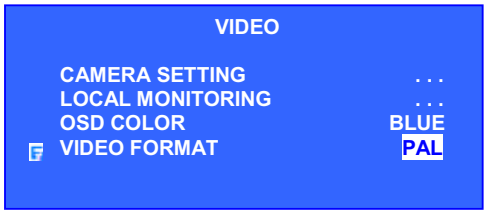
Setup *Tele*Eye RX for Broadband or Narrowband Internet Connection with Dynamic IP



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

Step 7: Use "**Up**" or "**Down**" button to select **[SETUP]** option and press "**Enter**" Enter button to enter the **[SETUP]** sub-menu.

Step 8: Select **[VIDEO]** option and press "**Enter**" Enter button



Step 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).

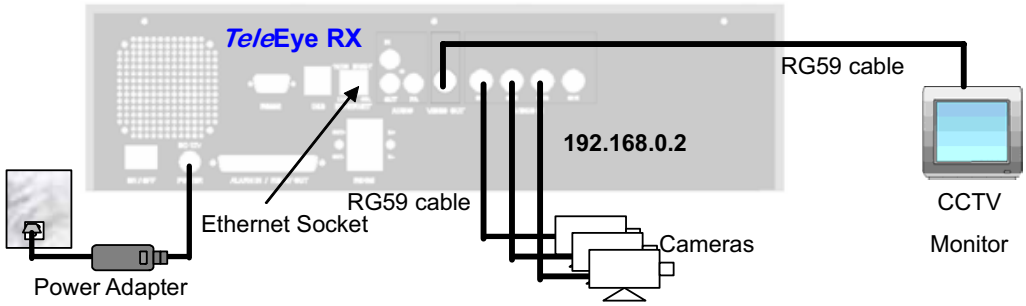
Step 10: You can always press "**Live**" button to exit any menu operation and start live monitoring.

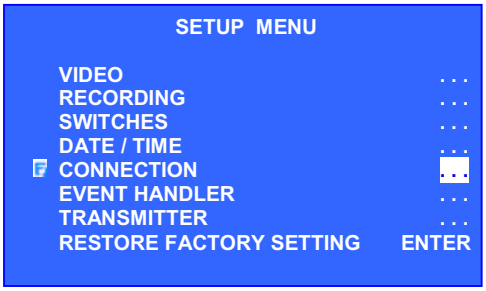
Setup ***Tele*Eye RX** transmitter IP through CCTV monitor, please go to **step 11a**.

Setup ***Tele*Eye RX** transmitter IP through PC, through PC, please go to **step11b**.

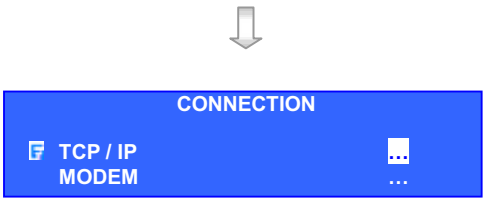
Setup *Tele*Eye RX for Broadband or Narrowband Internet Connection with Dynamic IP

Step 11a: Configure ***Tele*Eye RX** transmitter IP setting through CCTV Monitor

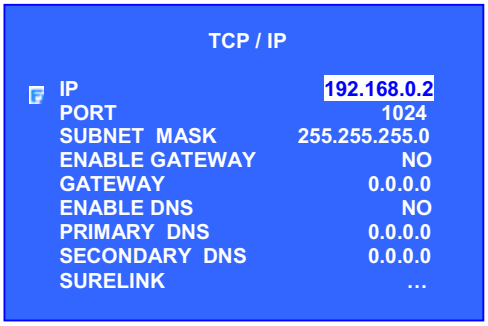




- Press the "**Menu**" button such that the **OSD main menu** pops up on the monitor.
- Use "**Up**" or "**Down**" button to select **[SETUP]** option and press "**Enter**" button.
- Select**[CONNECTION]**option and press "**Enter**" button



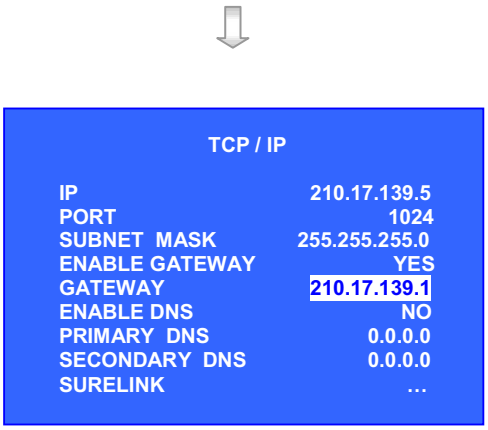
- Select **[TCP/IP]** option and Press "**Enter**" button



Select **[IP]** option and press "**Enter**" button. IP address consists of **four fields**. Each field can assign a number from **0 to 255**.

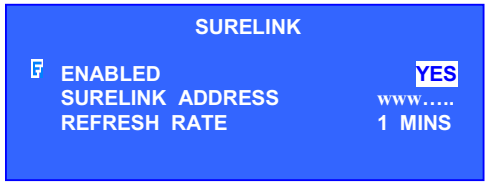
Setup *Tele*Eye RX for Broadband or Narrowband Internet Connection with Dynamic IP

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

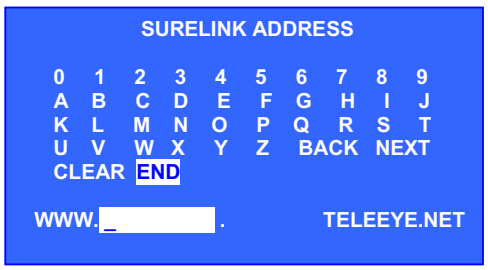


- Follow the network setting and assign valid subnet mask to **[SUBNET MASK]** and select **[ENABLE GATEWAY]** option and input **[GATEWAY]** option in similar way. Assign the **Gateway** (for example) to **210.17.139.1**
- Select **[ENABLE DNS]** option Use "**Left**" or "**Right**" button to select **[YES]** to enable DNS.
- Assign the **Primary DNS** (for example) to **202.14.67.4**
- Assign the **Secondary DNS** (for example) to **202.14.67.14**

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

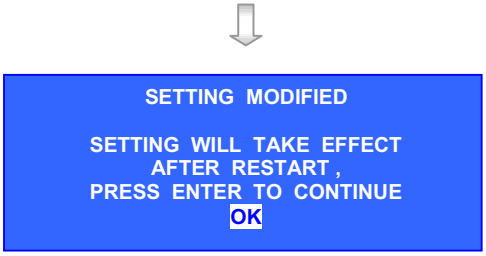


- Select **[SURELINK]** option from TCP/IP menu and press "**Enter**" Enter button to enter the sub menu.
- Select **[ENABLED]** option and press "**Left**" or "**Right**" button to set **[YES]** value
- Select **[SURELINK ADDRESS]** option and press "**Enter**" Enter button to ***sure*LINK** editing menu.



There are two fields for assigning ***sure*LINK** address "www.**your_site**.**your_company**.teleeye.net" (Refer P.152 to section of getting ***sure*LINK** address)

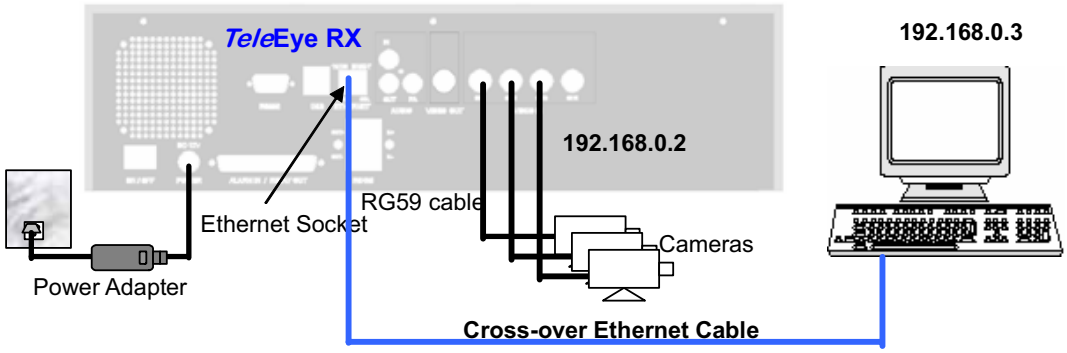
- Use "**Up**" or "**Down**" or "**Left**" or "**Right**" button to select values and use "**Enter**" button to assign value.
- **[BACK]**→ back to previous value or field
- **[NEXT]**→ next to field
- **[CLEAR]** → clear field
- **[END]** → finish to assign ***sure*LINK** address and exit the editing menu.

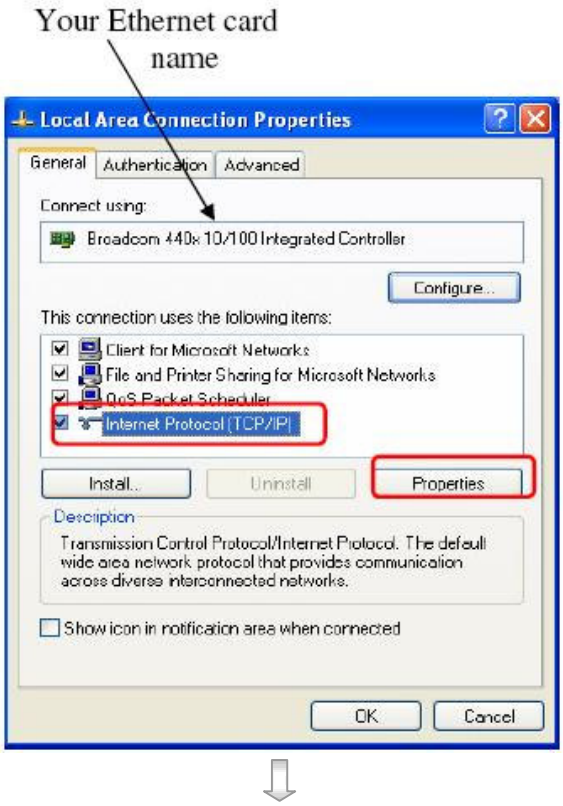


- Press "**Live**" Live button and **[SETTING MODIFIED]** message board will pop up. Press "**Enter**" Enter button to restart the transmitter.

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

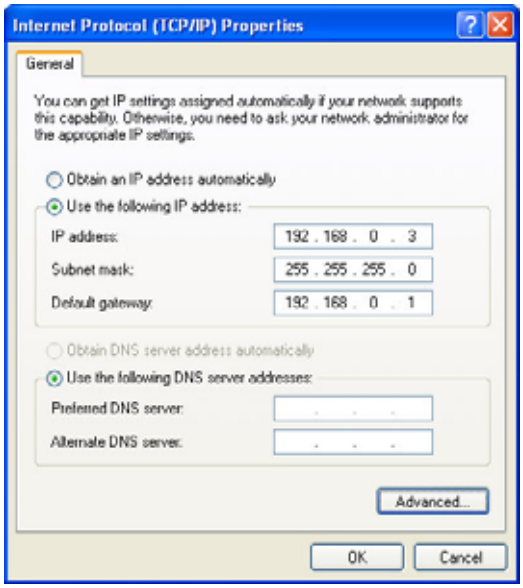
Step 11b: Configure ***Tele*Eye RX** transmitter IP setting through PC

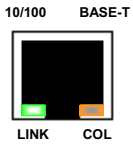


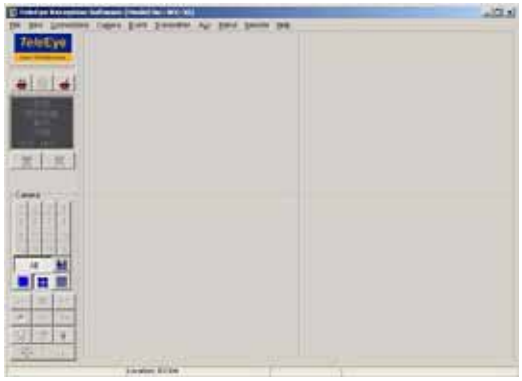


- In Windows 2000/XP desktop, select **Start** > **Control Panel**
- Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.
- Choose **Internet Protocol (TCP/IP)** and click **Properties**

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

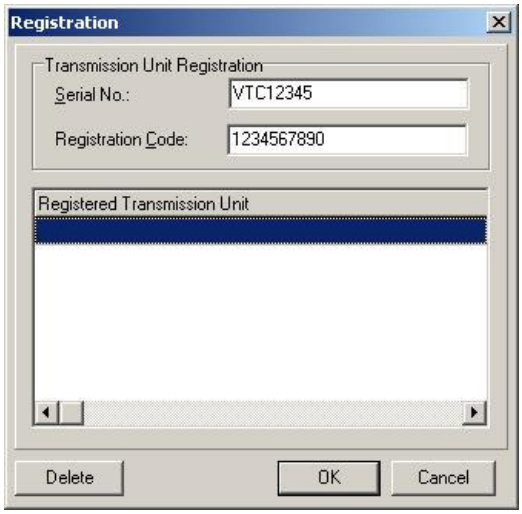




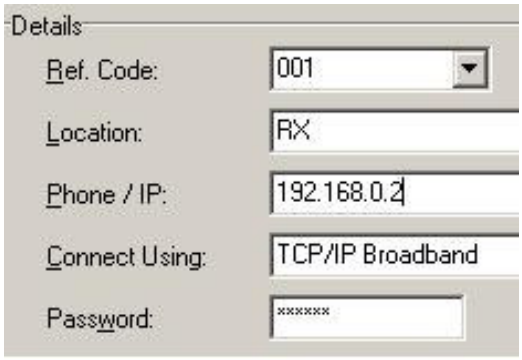


- Enter an **IP address, subnet mask** and **Default gateway**. ***Note that IP address should be "192.168.0.xx" except "192.168.0.2" which is Tele*Eye RX *default IP address.***
- Enter the **Preferred** and **Alternate DNS server**, if necessary.
- Click **OK** to activate the new IP.
- You have to 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.
- Connect the PC Ethernet socket to the transmitter Ethernet socket at rear panel of the transmitter with **cross-over** Ethernet cable. Check if the **{LINK LED}** of the transmitter is turned **ON**.
- 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)

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



- Choose **[Transmitter]** → **[Registration]** to register the ***Tele*Eye RX** transmitter. User needs to input transmitter serial number and registration code.
  For example :
  Serial No. : VTC12345
  Registration Code : 1234567890

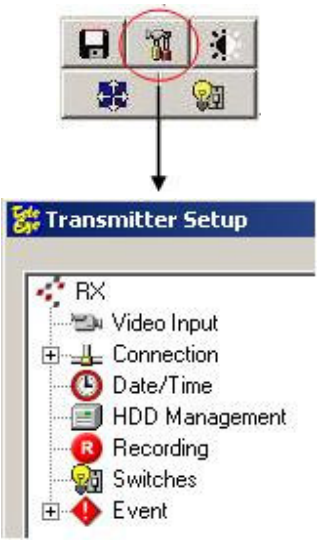


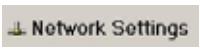
- Press **[Connect]**  icon to pop up the **[Connect Window]**. Type and select the following setting :
  Broadband Connection :
  Phone/IP : 192.168.0.2
  Connect Using: TCP/IP Broadband
  Password: 000000
  OR
  Narrowband Connection :
  Phone/IP : 192.168.0.2
  Connect Using: TCP/IP Narrowband
  Password: 000000
  IP (192.168.0.2) and Password (000000) are default setting of ***Tele*Eye RX**

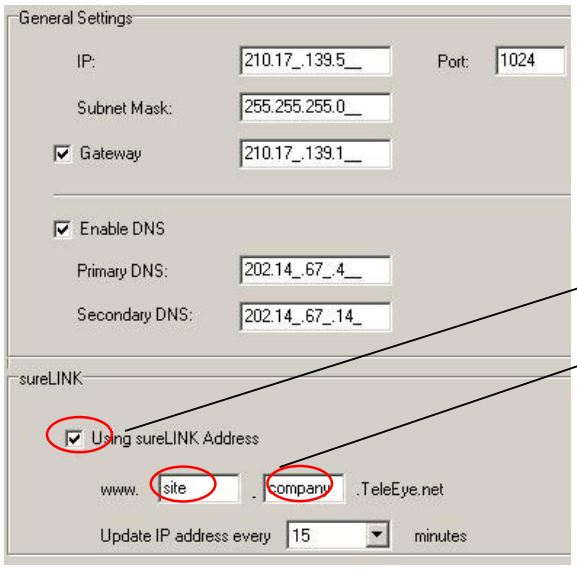
- Press **[Connect]** 

icon to connect your PC and the transmitter. 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.

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



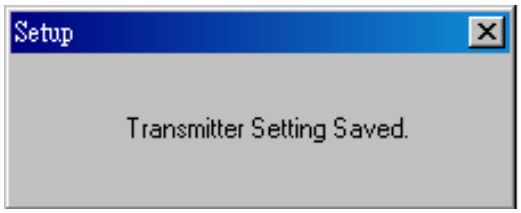
- Press **[Transmitter Setup]**  icon to show ***Tele*Eye RX** configuration menu.
- Select **[Connection]** and press **[Network Settings]**  icon to configure network setting.



For example :

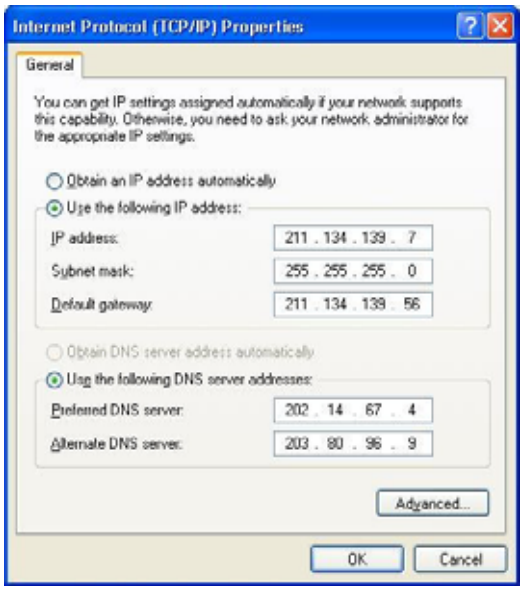
- Assign **210.17.139.5** to IP
- Assign **210.17.139.1** to Gateway
- Assign **202.14.67.4** to Primary DNS
- Assign **202.14.67.14** to Secondary DNS
- Enable ***sure*LINK**
- Assign "www.**your_site**.**your_company**.teleeye.net" (please refer P.152 to ***sure*LINK** section to get the address) to text field.

Note that The above network setting is an example. Please consult you network administrator to get your network setting information



Press **[Apply]**  icon to save the network setting and pop up the **message board**. After several seconds, the transmitter will **restart automatically.**

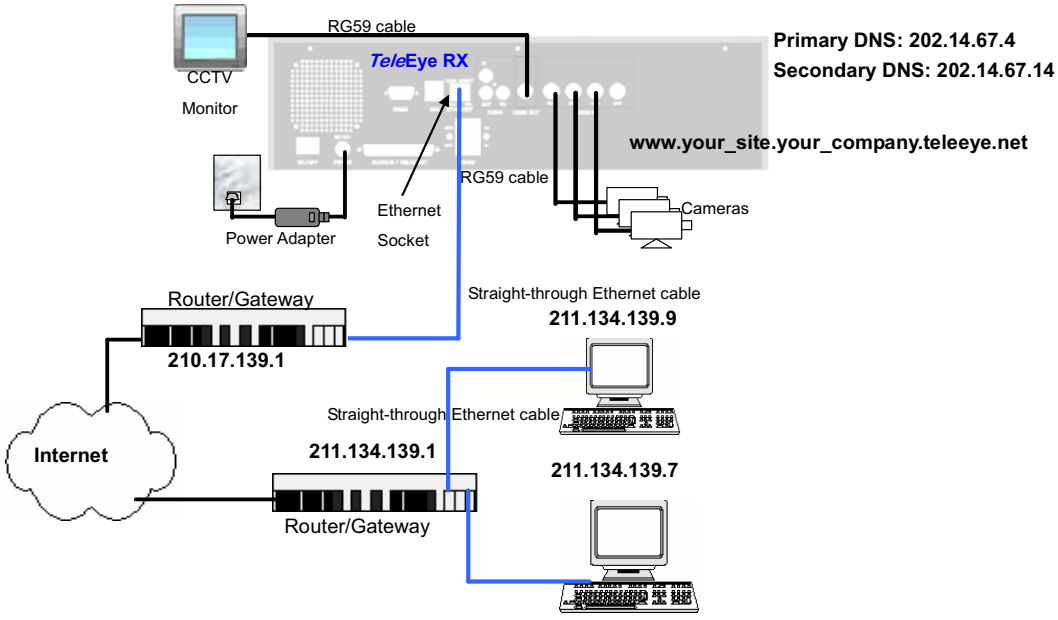
Setup *Tele*Eye RX for Broadband or Narrowband Internet Connection with Dynamic IP



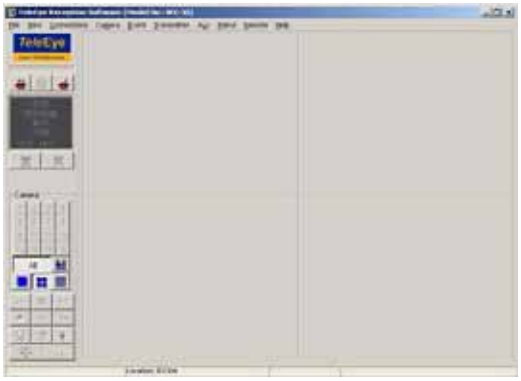
- In Windows 2000/XP desktop, select **Start > Control Panel**
- Double click **Network and Dial-up Connections** > right click **Local Area Connections** and choose **Properties**.
- Choose **Internet Protocol (TCP/IP)** and click **Properties**
- Enter the **IP address, subnet mask** and **Default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

Step 12: Disconnect the transmitter and current PC. Reconnect the transmitter and current PC to the Internet network through **straight-through Ethernet cable**.

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

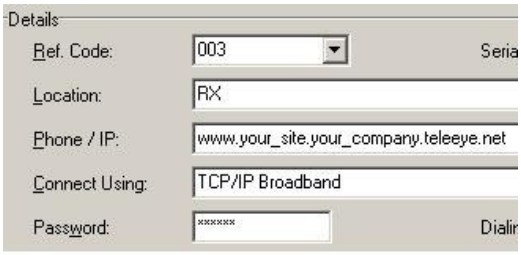


Setup *Tele*Eye RX for Broadband or Narrowband Internet Connection with Dynamic IP



Step14: Configure the network setting for ***Tele*Eye RX** transmitter and your PC if necessary, such as router/gateway port mapping (select router/gateway IP as IP provided by your ISP and the transmitter IP as IP provided by the router/gateway), firewall, etc. (Please refers to the manual of your router/gateway.)

Step15: Run **WX-30** software at any network PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)



Step 16: Press **[Connect]** icon to pop up the **[Connect Window]**. For **example**, type and select the following setting :

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

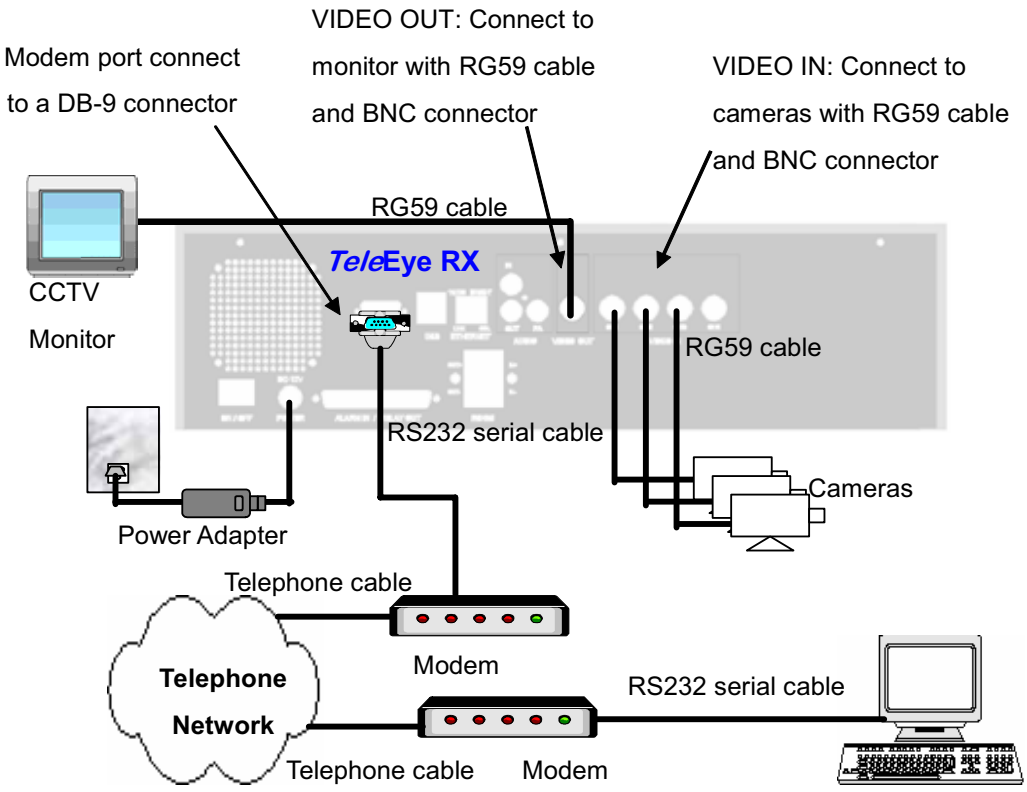
Password: 000000

Step 17: Press **[Connect]** Connect icon to connect your PC and the transmitter. 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.

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

E. Setup *Tele*Eye RX for Modem Connection

Connection Topology



Equipment

- ***Tele*Eye RX** Transmitter
- 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 *Tele*Eye RX for Modem Connection

Setup Procedure

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

Note that the cameras system is either NTSC or PAL and suppose all cameras are used the SAME system format. (For PTZ camera installation, please refer P.148 to Advance Operation Section of the User Guide).

Step 2: Connect CCTV monitor to ***Tele*Eye RX {Video Output}** with RG59 cable and BNC connector.

Step 3: Install and use the bundled key to lock the **{Hard Disk Rack}** with hard disk to the ***Tele*Eye RX**.

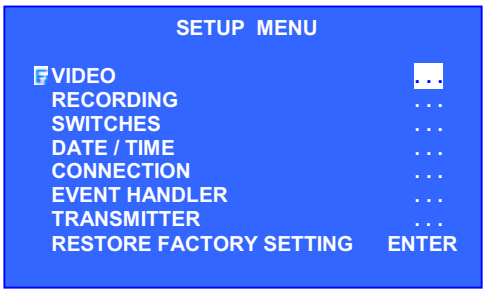
Note that you cannot perform recording and playback if there is no hard disk installed but still has live video monitoring. (For hard disk installation details, please refer P.11 to Hard Disk Installation Section of the User Guide)

Step 4: Connect the power adapter (12V DC, 5A supply) to the ***Tele*Eye RX**.

Step 5: Turn on the power of ***Tele*Eye RX**, camera and CCTV 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 follow:

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

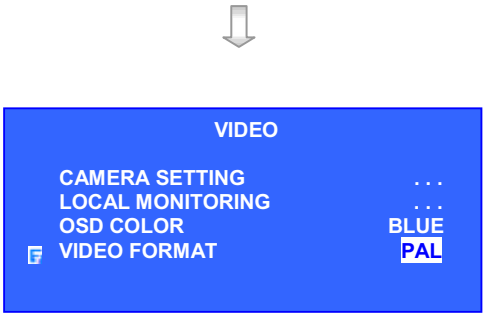
Setup *Tele*Eye RX for Modem Connection



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

Step 7: Use "**Up**" or "**Down**" button to select **[SETUP]** option and press "**Enter**" Enter button to enter the **[SETUP]** sub-menu.

Step 8: Select **[VIDEO]** option and press "**Enter**" Enter button



Step 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).

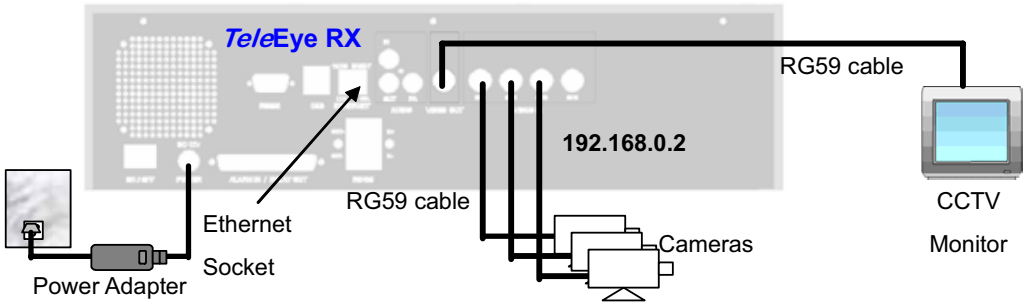
Step 10: You can always press "**Live**" button to exit any menu operation and start live monitoring.

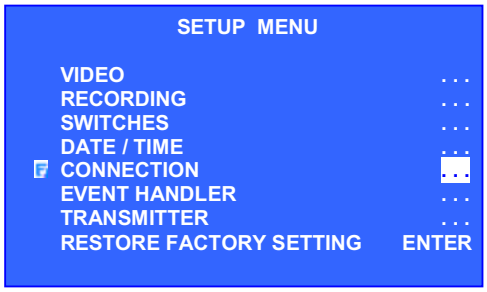
Setup ***Tele*Eye RX** transmitter IP through CCTV monitor, please go to **step 11a**.

Setup ***Tele*Eye RX** transmitter IP through PC, through PC, please go to **step11b**.

Setup *Tele*Eye RX for Modem Connection

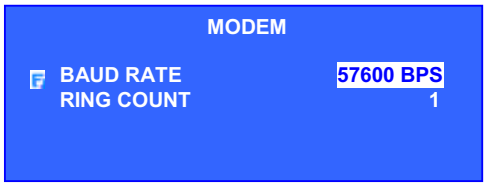
Step 11a: Configure ***Tele*Eye RX** transmitter modem connection setting through CCTV Monitor





- Press the "**Menu**" button such that the **OSD [MAIN MENU]** pop up on the monitor.
- Use "**Up**" or "**Down**" button to select **[SETUP]** option and press "**Enter**" button and select **[CONNECTION]** option and press "**Enter**" button.

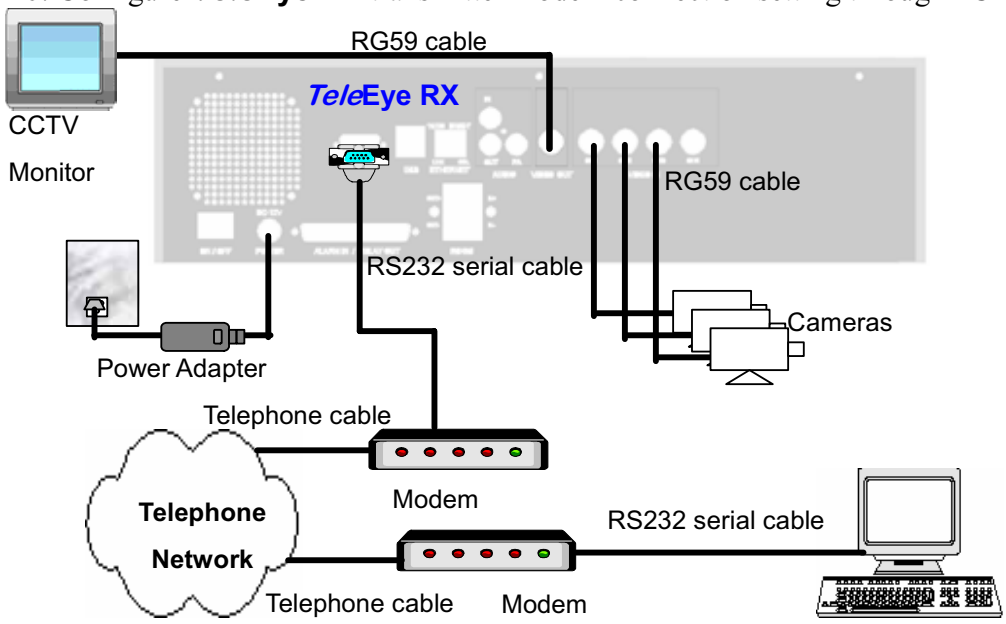
- Use "**Up**" or "**Down**" button to select **[MODEM]** option and press "**Enter**" button



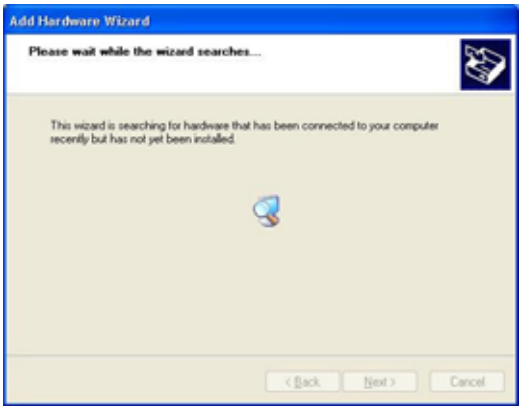
- Select **[BAUD RATE]** and then **[RING COUNT]** option press "**Enter**" button
- Use "**Up**" or "**Down**" button to set number. Press "**Enter**" button to input baud rate and ring count setting

Setup *Tele*Eye RX for Modem Connection

Step 11b: Configure ***Tele*Eye RX** transmitter modem connection setting through PC



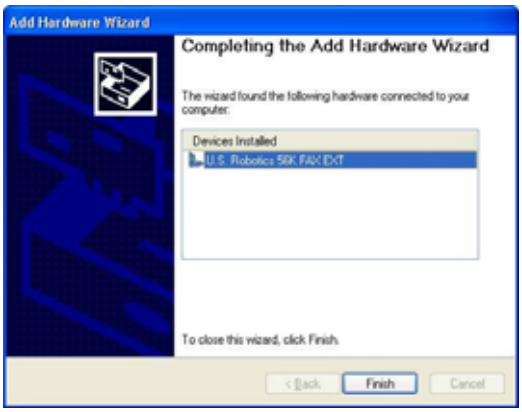
Modem Setup for Windows 2000/XP of PC



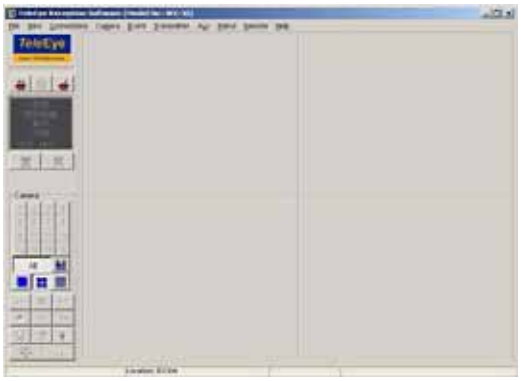
- In Windows 2000/XP desktop, select **Start** > **Control Panel**
- Double click **Add Hardware**, press **Next**, to search the modem connected to the PC automatically

- Windows 2000/XP can search the modem device automatically. If modem installation has problem, please refers to the modem manual.

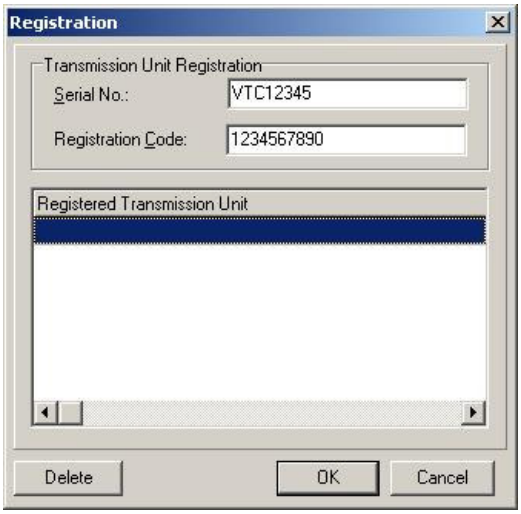
Setup *Tele*Eye RX for Modem Connection



- 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.



- 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)



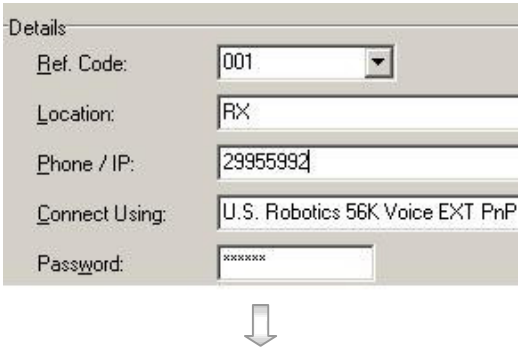
- Choose **[Transmitter]** → **[Registration]** to register the ***Tele*Eye RX** transmitter. User needs to input transmitter serial number and registration code.

  For example :

  Serial No. : VTC12345

  Registration Code : 1234567890

Setup *Tele*Eye RX for Modem Connection



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

  Phone/IP :

  29955992 (Phone number of the transmitter)

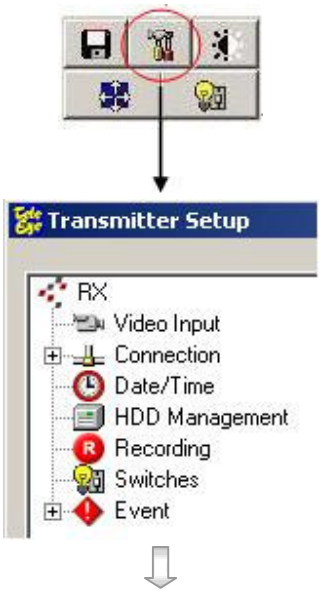
  Connect Using :

  U.S. Robotics 56K Voice EXT PnP

  (Modem Driver)

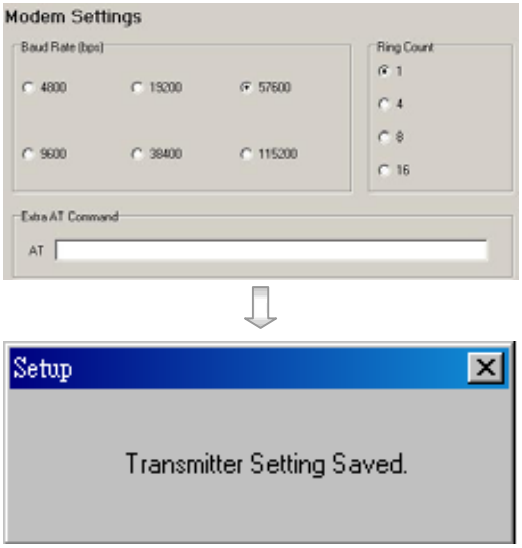
  Password: 000000

- Press **[Connect]** Connect icon to connect your PC and the transmitter. 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.



- Press **[Transmitter setup]** icon to show ***Tele*Eye RX** configuration menu.
- Select **[Connection]** and press **[Modem Settings]** Modem Settings icon to configure network setting.

Setup *Tele*Eye RX for Modem Connection



- Assign modem baud rate in order to adjust modem connection speed.
- Assign ring count, so modem can connect to the transmitter after that ring count.

- Press **[Apply]** 

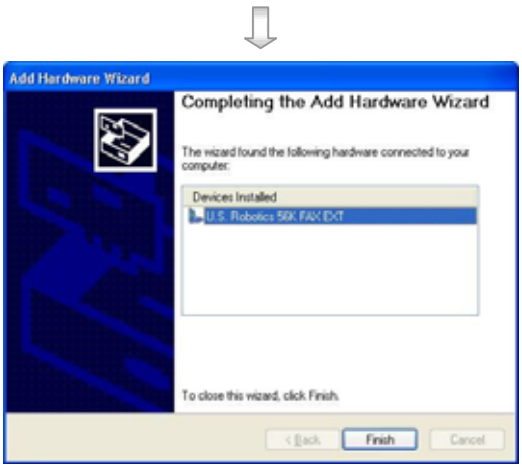
icon to save the network setting and pop up the **message board**. After several seconds, the transmitter will **restart automatically.**

Step 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 ***Tele*Eye RX** transmitter

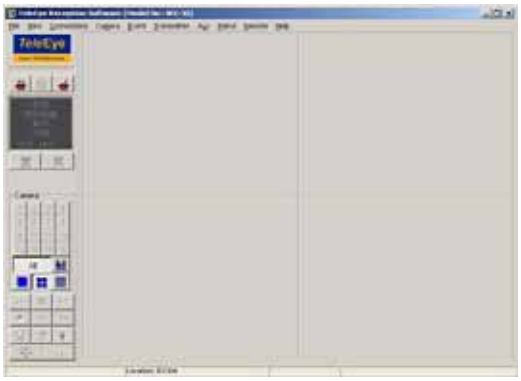
- In Windows 2000/XP desktop, select **Start** > **Control Panel**
- Double click **Add Hardware**, press **Next**, to search the modem connected to the PC automatically

- Windows 2000/XP can search the modem device automatically. If modem installation has problem, please refers to the modem manual.

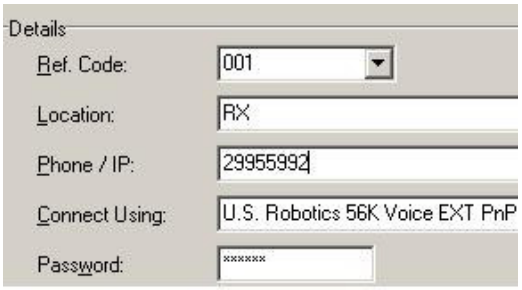
Setup *Tele*Eye RX for Modem Connection



- 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.



- 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)



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

  Phone/IP :

  29955992 (Phone number of the transmitter)

  Connect Using :

  U.S. Robotics 56K Voice EXT PnP

  (Modem Driver)

  Password: 000000

Setup *Tele*Eye RX for Modem Connection

- Press **[Connect]** 

icon to connect your PC and the transmitter. 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.

Setup *Tele*Eye RX for Modem Connection

SECTION

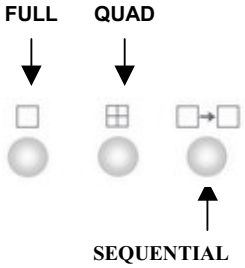
4

Basic Operation for Local and Remote Monitoring

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

I. Live Monitoring

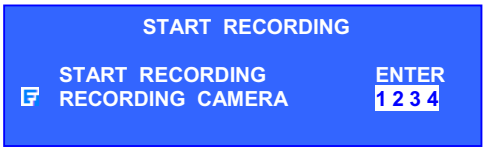
Press "**Screen Control**" buttons to view the live video in **full**, **quad** and **sequential** display mode.



Note that when PTZ camera has been enabled, then sequential live mode cannot be selected.

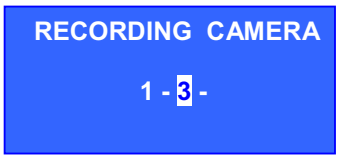
Press "**Live Camera Control**" buttons to fast switch to a specific camera for local monitoring

II. Recording



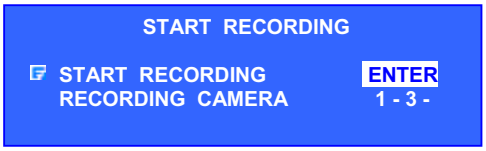
Step 1: Press "**Rec**" button and **[START RECORDING]** menu will pop up.

Step 2: Select **[RECORDING CAMERA]** option and press "**Enter**" Enter button to enable recording cameras.



Step 3: Use "**Left**" or "**Right**" button to select the recording camera and use "**Up**" or "**Down**" button to enable or disable the recording camera.

(e.g. Cam 1 & 3 are enabled, Cam 2 & 4 are disabled)

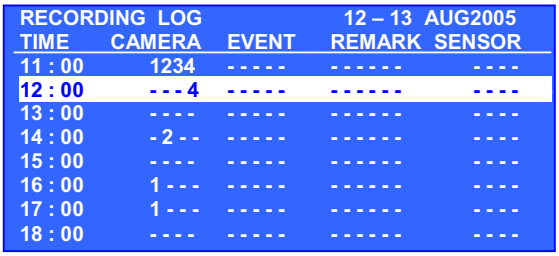


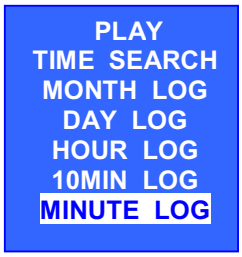
Step 4: After setting the recording cameras, press "**Enter**" Enter button to save the setting and back to **[START RECORDING]** menu.

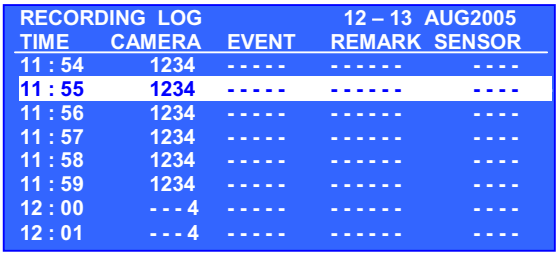
Step 5: Select **[START RECORDING]** option and press "**Enter**" Enter button for recording. The **{Rec LED}** will be turned ON (RED Color) Rec which indicates that recording is processing.

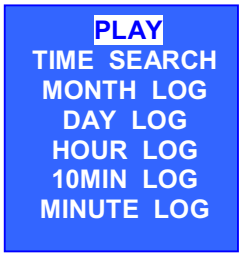
Step 6: Press "**Rec**" button again to stop recording function and the **{REC LED}** will be turned OFF.

III. Playback









Step 1: Press "**Search**" button to pop up **[RECORDING LOG]** board on OSD.

Step 2: Press "**Play/Enter**" button to show **[PLAY]** menu.

Select **[MINUTE LOG]** option and press "**Enter**" button.

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

Step 3: Select a record and press "**Enter**" button for playback.

Then **[PLAYBACK]** menu will pop up again.

Step 4: Select **[PLAY]** option and press "**Enter**" button again for **playback.**

Step 5: Using "**Playback Control button**" for "**play**" , "**pause**" , "**rewind**" , "**forward**" , "**fast forward**" , "**step forward**" , "**step backward**" and "**stop**". (For detail, refer to page 5 Front Panel Section of User Guide)

Step 6: Press "**screen control**" or "**camera control**" buttons to change the view mode in local CCTV video playback.

Note that if user record video by using quad recording mode, the playback video may not be so good in full screen display mode.

Local CCTV Monitor : Live Monitoring, Recording and Playback

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

I. Live Monitoring

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

icon.

Display mode selection

Screen views in **Full screen**

Screen views in **Quarter screen**

Screen views in **Hex screen**

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

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

Step 1: Click **[Quality]**  icon at the software front panel to pop up **[Quality]** setting panel.

Step 2: Pull up and down to select the quality items. Pull up is to increase the value and vice versa.

 : Quality

 : Brightness

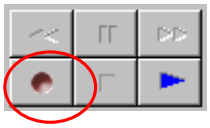
 : Contrast

 : Colour

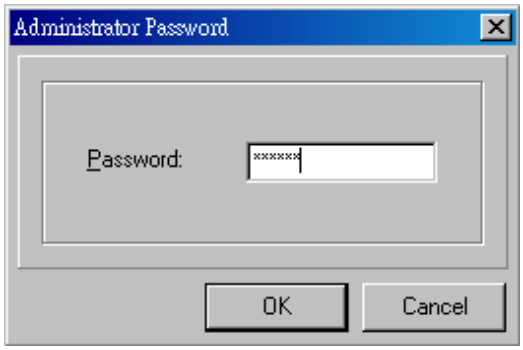
Step 3: After changing the setting, press **[Close]** 

icon to exit the panel.

II. Recording



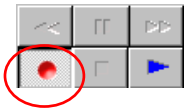
Step 1: Press **[Record]**  icon to setup recording setting.



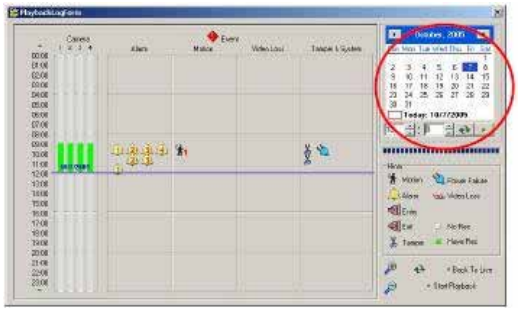
Step 2: Input administrator password (**000000** as default password) and press **[OK]** button.

Step 3: Enable recording cameras (Tick  for enable, blank for disable)

Step 4: Press **[Start Recording]**  icon to start recording

Recording function is running → 

III. Playback



Step 1: Press **[Play]**  icon to show playback menu

Step 2: Select and input the record date and time for searching and press **[Reload]**  icon.

Step 3: Select a **time slot record** and press **[Start Playback]** 

button.

Step 4: Use "**playback control button**"  to control playback video such as "play", "pause", "forward", "backward" and "stop" function.

Step 5: Press **[All]** 

, [Full screen]  , **[Quarter screen]**  , **[Hex screen]**  or **[Auto-arrange]**  icon to change the view mode for playback.

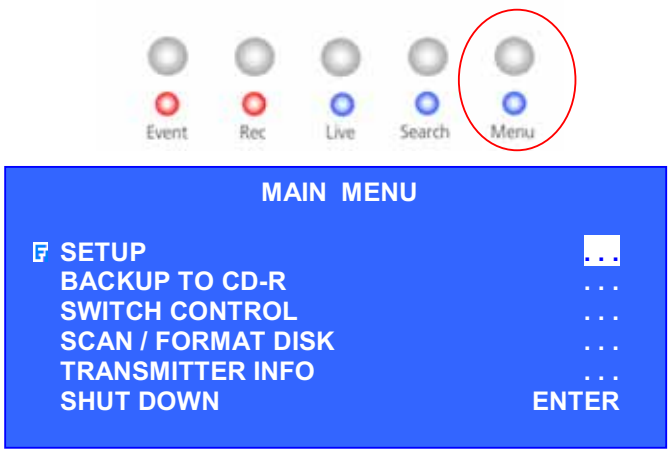
Note that after pressing "pause" button for 1 minute, reception software WX-30 will continue to playback the video automatically.

Note that if user record video by using quad recording mode, the playback video may not be so good in full screen display mode.

SECTION 5

OSD Menu Operation

A. Main Menu



1. Press the "**Menu**" button to open the main 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 open the sub-menu
5. If menu option ends with **[. . .]** indicates sub-menu existing, you can always press the "**Enter**" button to open the sub-menu.
6. If menu option does not end with **[. . .]** but provides selection, user can press the "**Left**" / "**Right**" button to selection the options.
7. You can press the "**Back**" button once back to previous menu.

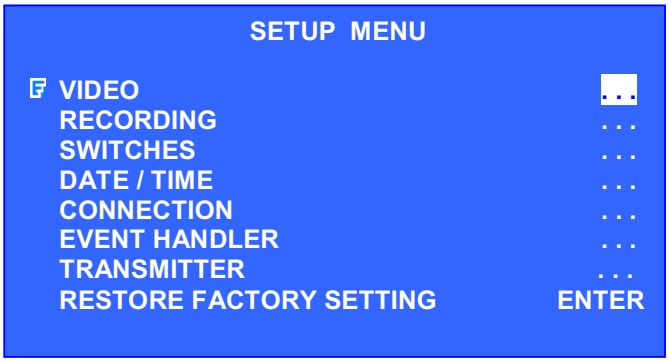
Main Menu

8. Press "**Live**" button or "**Back**" button until OSD disappear to exit menu and save the setting. **[SETTING SAVED]** message will be shown.

The main menu contains the following options

SETUP	: Change the ***Tele*Eye RX** transmitter setting
BACKUP TO CDR	: Backup recorded video to CDR or CDRW
SWITCH CONTROL	: Turn on /off switch 1-4
SCAN / FORMAT DISK	: Show the hard disk information, do scandisk and format the hard disk operation
TRANSMITTER INFO	: Show the ***Tele*Eye RX** transmitter information
SHUT DOWN	: Shut down or restart ***Tele*Eye RX** transmitter

Main Menu→Setup

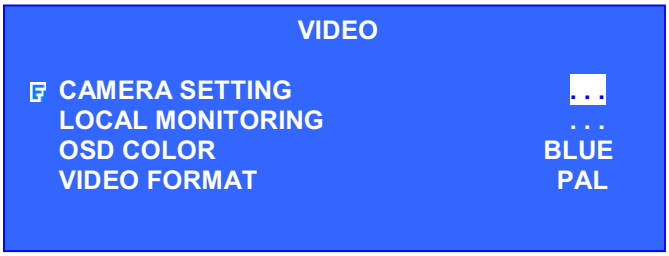


The setup menu contains the following options

VIDEO	: Change camera, local monitoring, PTZ setting, OSD color and video format related settings
RECORDING	: Change recording related settings
SWITCHES	: Change switches related settings
DATE/TIME	: Change date and time settings
CONNECTION	: Change connection and network related settings
EVENT HANDLER	: Change event related settings
TRANSMITTER	: Change the transmitter name, registration checking and perform firmware upgrade
RESTORE FACTORY SETTING	: Restore default factory setting

Main Menu

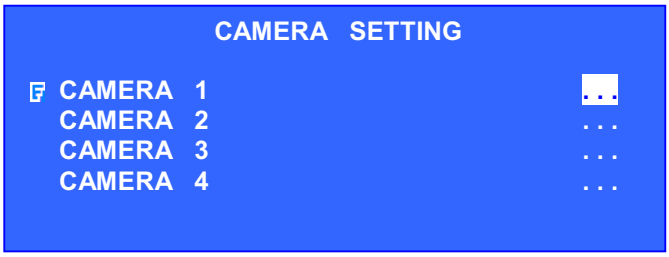
Main Menu→ Setup→Video



The video menu contains the following options

CAMERA SETTING	: Change camera name and install camera
LOCAL MONITORING	: Change local CCTV monitor related setting
OSD COLOR	: Change OSD color
VIDEO FORMAT	: Change the video format to PAL or NTSC format

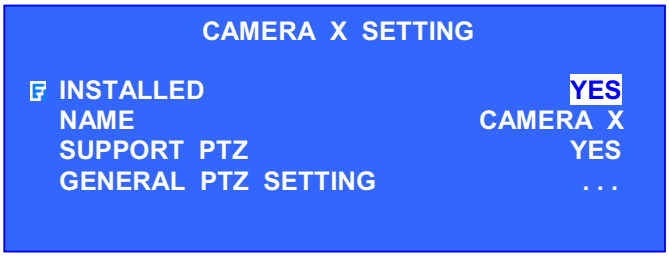
Main Menu→ Setup→Video→Camera Setting



The camera setting menu contains the following options

CAMERA 1	: Change camera 1 setting
CAMERA 2	: Change camera 2 setting
CAMERA 3	: Change camera 3 setting
CAMERA 4	: Change camera 4 setting

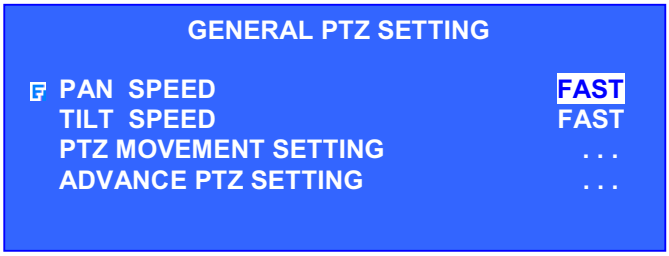
Main Menu→ Setup→Video→Camera Setting→ Camera X Setting



The camera setting menu contains the following options

INSTALLED	: Install the camera
NAME	: Edit the camera name
SUPPORT PTZ	: Enable the PTZ camera
GENERAL PTZ SETTING	: Change PTZ camera setting

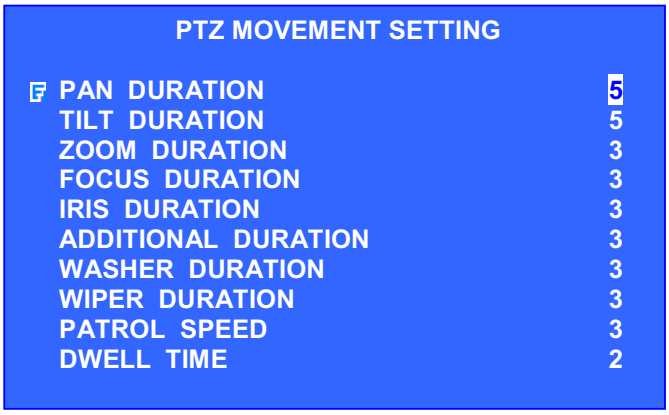
Main Menu→ Setup→Video→Camera Setting→ Camera X Setting → General PTZ Setting



The general PTZ setting menu contains the following options

PAN SPEED	: Select the pan (**horizontal direction**) speed of the PTZ camera
TILT SPEED	: Select the tilt (**vertical direction**) speed of the PTZ camera
PTZ MOVEMENT SETTING	: Change the PTZ camera movement duration and timing
ADVANCE PTZ SETTING	: Change the PTZ camera driver and baud rate

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



The PTZ movement setting menu contains the following options

PAN DURATION : Select the PTZ camera pan duration
TILT DURATION : Select the PTZ camera tilt duration
ZOOM DURATION : Select the PTZ camera zoom duration
FOCUS DURATION : Select the PTZ camera focus duration
IRIS DURATION : Select the PTZ camera iris duration
ADDITIONAL DURATION : Select the PTZ camera additional duration if any
WASHER DURATION : Select the PTZ camera washer duration
WIPER DURATION : Select the PTZ camera wiper duration
PATROL SPEED : Select the PTZ camera patrol speed
DWELL TIME : Select the PTZ camera dwell time

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

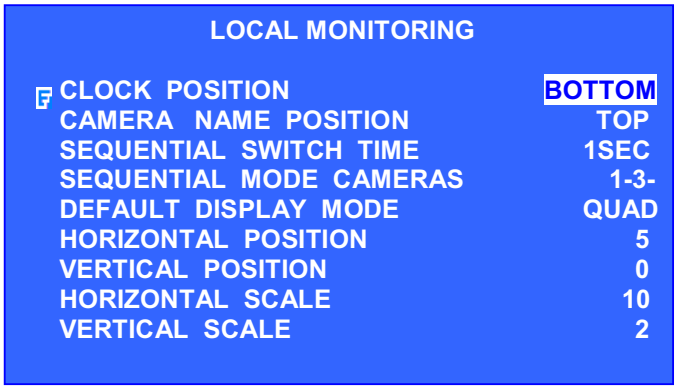
The advance PTZ setting

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

(For PTZ camera setting details, please refers to P.148 Connection to PTZ Cameras Part of Advance Operation Section of User Guide)

Main Menu

Main Menu→ Setup→Video→Local Monitoring



The local monitoring menu contains the following options

CLOCK POSITION : Change the clock position (Bottom, Top or None) in local CCTV monitor

CAMERA NAME POSITION : Change the camera name position (Bottom, Top or None) in local CCTV monitor (Camera name and clock positions are in opposite position)

SEQUENTIAL SWITCH TIME : Change the switch time between each live camera display for sequential mode monitoring

SEQUENTIAL MODE CAMERAS : Select cameras for sequential mode monitoring

DEFAULT DISPLAY MODE : Select default display mode in CCTV monitor after ***Tele*Eye RX** transmitter boot up

HORIZONTAL POSITION : Change horizontal position of local video output

VERTICAL POSITION : Change vertical position of local video output

HORIZONTAL SCALE : Change horizontal scale of local video output

VERTICAL SCALE : Change vertical scale of local video output

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

Main Menu→Setup→Recording

The recording menu contains the following options

RECORDING MODE	: Change recording mode in **1, 2, 3, 4, 5 frame per second (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 FULL and QUAD

Note that 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

(For recording setting details, please refers to P.67 Recording Part of Local CCTV Monitor : Live Monitoring, Recording and Playback Section of User Guide)

Main Menu→Setup→Switches

The switches menu contains the following options

SWITCH 1 SETTING	: Change switch 1 setting
SWITCH 2 SETTING	: Change switch 2 setting
SWITCH 3 SETTING	: Change switch 3 setting
SWITCH 4 SETTING	: Change switch 4 setting

Main Menu

Main Menu→ Setup→ Switches→ Switch X Setting

The switch (No.) setting menu contains the following options

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

Main Menu→ Setup→ Date Time Setup

1. Press "**Enter**" Enter button to select **[DATE TIME]** or **[TIME]** option

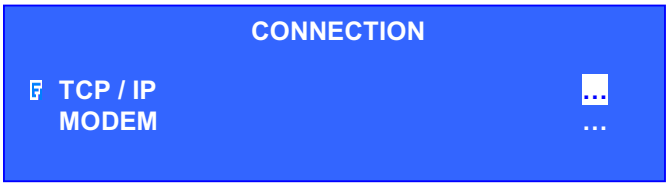
2. Press "**Left**" / "**Right**" button to select date, month, year for **[DATE TIME]** or select hour, minutes for **[TIME]** option
3. Press "**Up**" / "**Down**" button to change the value
4. Press "**Enter**" Enter button to save setting and exit this page of menu

The date / time setup menu contains the following options

DATE : Set the current date
TIME : Set the current time

Main Menu

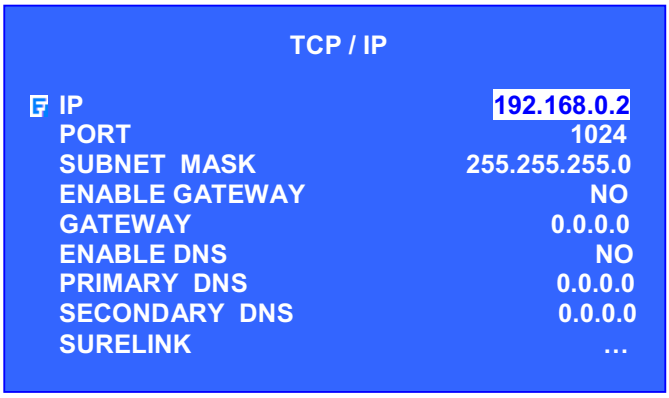
Main Menu→ Setup→ Connection



The connection setup menu contains the following options

TCP / IP	: Configure TCP/IP network related setting
MODEM	: Configure modem related setting

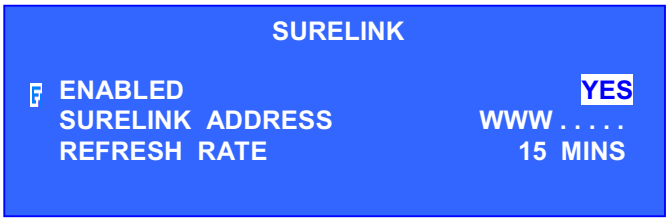
Main Menu→ Setup→ Connection→ TCP / IP



The TCP/IP menu contains the following options

IP	: Change ***Tele*Eye RX** transmitter IP
PORT	: Change ***Tele*Eye RX** transmitter port
SUBNET MASK	: Change ***Tele*Eye RX** transmitter subnet mask
ENABLE GATEWAY	: Enable ***Tele*Eye RX** transmitter gateway setting
GATEWAY	: Change ***Tele*Eye RX** transmitter gateway
ENABLE DNS	: Enable ***Tele*Eye RX** transmitter DNS setting
PRIMARY DNS	: Change ***Tele*Eye RX** transmitter primary DNS
SECONDARY DNS	: Change ***Tele*Eye RX** transmitter secondary DNS
SURELINK	: Change ***Tele*Eye RX** transmitter ***sure*LINK** setting

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



The ***sure*LINK** menu contains the following options

ENABLED	: Enable ***sure*LINK** option
SURELINK ADDRESS	: Change the ***Tele*Eye RX** transmitter ***sure*LINK** address
REFRESH RATE	: Select the ***sure*LINK** refresh rate

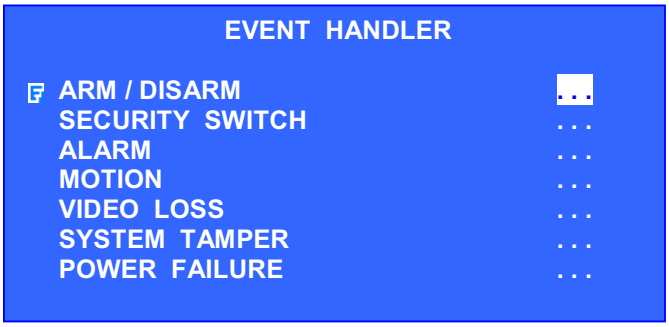
Main Menu→ Setup→ Connection→ Modem

The modem menu contains the following options

BAUD RATE	: Change the baud rate of the modem
RING COUNT	: Change the ring count to connect to the modem

(For detail network setting, please refers to P.22 Basic Installation for Local and Remote Monitoring Section of User Guide)

Main Menu→ Setup→ Event Handler



The event handler menu contains the following options

ARM / DISARM : Enable arm/disarm function, change its relative setting and change the event associated action

SECURITY SWITCH : Enable security switch function, change its relative setting and change the event associated action if arm/disarm function is enabled

ALARM : Enable alarm function, change its relative setting and change the event associated action

MOTION : Enable motion detection for a particular camera, change its relative setting and change the event associated action

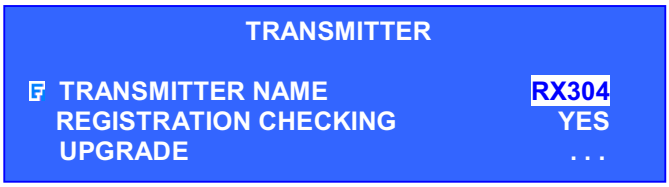
VIDEO LOSS : Enable video loss detection for a particular camera, change its relative setting and change the event associated action

SYSTEM TAMPER : Enable system tamper function, change its relative setting and change the event associated action

POWER FAILURE : Enable power failure function, change its relative setting and change the event associated action

(For event handler detail setting, please refers to P.103 Event Handler Part of Advance Operation Section of User Guide)

Main Menu→ Setup→ Transmitter



The transmitter menu contains the following options

TRANSMITTER NAME	: Edit the transmitter name
REGISTRATION CHECKING	: Check the serial number of the transmitter match the serial number registered in the reception software WX-30 or not
UPGRADE	: Upgrade new version firmware

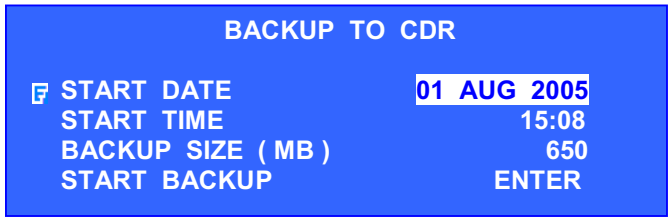
Main Menu→ Setup→ Transmitter→Upgrade

The firmware upgrade menu contains the following options

UPGRADE FROM USB	: Upgrade the new version firmware through USB
UPGRADE FROM CD	: Upgrade the new version firmware through CD

Note that user needs to install a formatted hard disk first before the firmware upgrade through CD

Main Menu→ Backup to CD-R

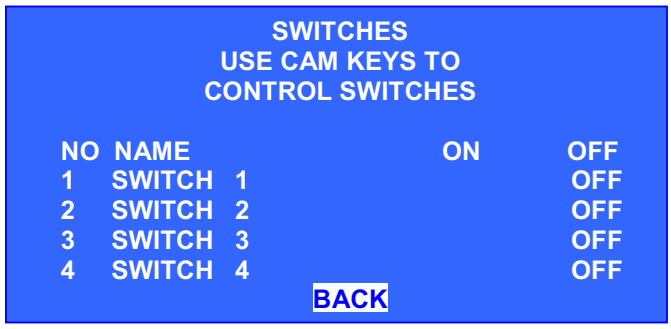


The backup to CD-R menu contains the following options

START DATE : Set the start date of the footage
START TIME : Set the start time of the footage
BACKUP SIZE : Change the backup size (10MB ~ 650 MB)
START BACKUP : Start Backup CD-R operation, and ***Tele*Eye RX** transmitter will search the footages from start date and time and calculate the end time of footage according to the footages size and backup size.

(For detail backup CD-R procedure, please refers to P.145 Back CD-R Part of Advance Operation Section of User Guide)

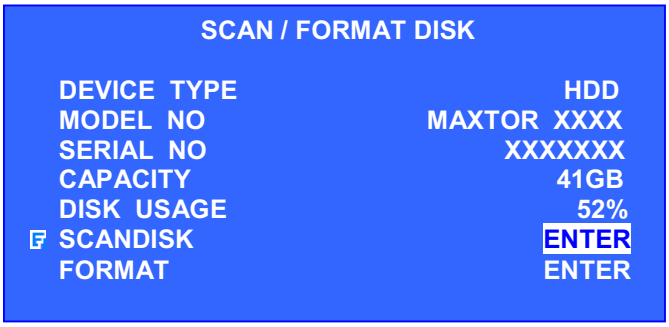
Main Menu→ Switch Control



The switches menu contains the following options

SWITCH 1 : Switch on / off **switch 1**
SWITCH 2 : Switch on / off **switch 2**
SWITCH 3 : Switch on / off **switch 3**
SWITCH 4 : Switch on / off **switch 4**

Main Menu→ Scan / Format Disk

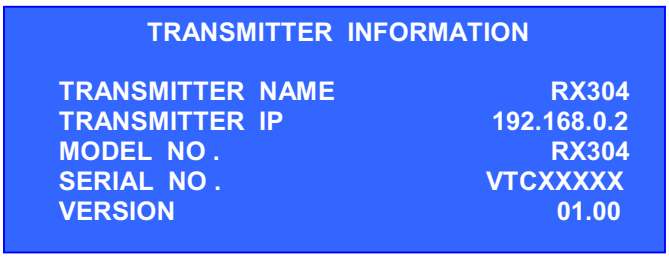


The HDD management menu contains the following options

DEVICE TYPE : Show the device type
MODEL NO : Show the device model no.
SERIAL NO : Show the device serial no.
CAPACITY : Show the capacity of the device
DISK USAGE : Show the disk usage in percentage
SCANDISK : Start HDD scanning operation
FORMAT : Start HDD formatting operation

(For detail hard disk operation, please refers to P.11 Hard Disk Installation, Formatting and Scanning Section of User Guide)

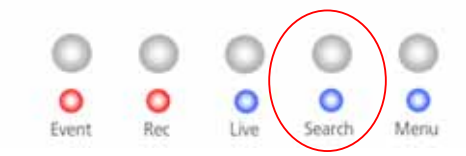
Main Menu→ Transmitter Information



The transmitter information menu contains the following options

TRANSMITTER NAME : Show the transmitter name
TRANSMITTER IP : Show the transmitter IP address
MODEL NO. : Show the transmitter model no.
SERIAL NO. : Show the transmitter serial no.
VERSION : Show the transmitter firmware version

B. Recording Log Menu



RECORDING LOG			12 – 13 AUG2005				
TIME	CAMERA	EVENT	REMARK	SENSOR	MOTION	AUDIO	VIDEOLOSS
11 : 00	1234	-----	------	----	----	--	----
12 : 00	---4	-----	------	----	----	--	----
13 : 00	----	-----	------	----	----	--	----
14 : 00	-2--	-----	------	----	----	--	----
15 : 00	----	-----	------	----	----	--	----
16 : 00	1---	-----	------	----	----	--	----
17 : 00	1---	-----	------	----	----	--	----

1. Press "**Enter**" 

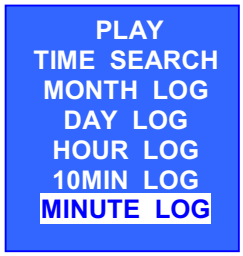
button to choose play recording log, time search function and log time scale
2. Press the "**Back**" 

button to exit the recording log menu

The record log menu contain the following status

TIME	: Show date of log
CAMERA	: Show time of log
EVENT	: Show event triggered
REMARK	: Items are not available now **
SENSOR	: Show alarm sensor triggered
MOTION	: Show motion trigger in which camera
AUDIO	: Show audio channel **
VIDEOLOSS	: Show camera video loss

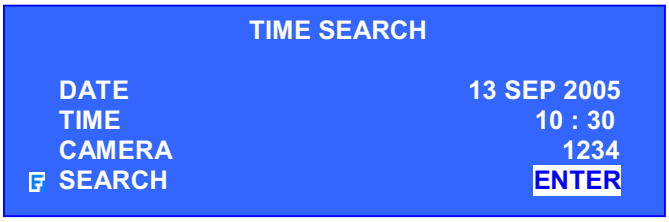
** : This function will be supported in the ***Tele*Eye RX** transmitter version 2.00.00 or later



The play and log search menu contains the following options

PLAY	: Play the current selected record
TIME SEARCH	: Search specify time recording log and play it
MONTH LOG	: Change the recording log scale to month
DAY LOG	: Change the recording log scale to day
HOUR LOG	: Change the recording log scale to hour
10MIN LOG	: Change the recording log scale to 10 minutes
MINUTE LOG	: Change the recording log scale to 1 minute

Recording Log Menu→Time Search



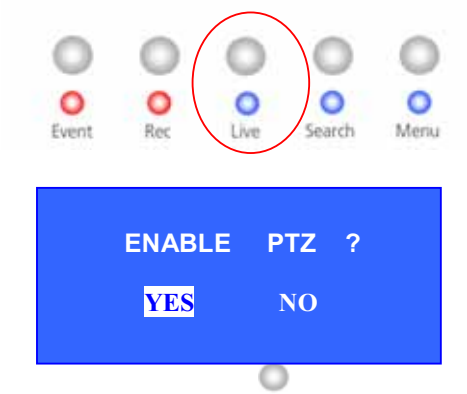
The time search menu contains the following options

DATE	: Select the date of record
TIME	: Select the time of record
CAMERA	: Select the camera of record
SEARCH	: Search the record

(For detail recording operation, please refers to P.67 Recording Part of Local CCTV Monitor : Live Monitoring, Recording and Playback Section of User Guide)

Recording Log Menu

C. PTZ Menu



1. During live mode, user presses the "**Live**" button to pop up the **[ENABLE PTZ]** menu

2. If user selects **[YES]** to enable the PTZ, then **[PTZ OPTION]** menu always pops up when user press the "**Live**" button again. User selects **[DISABLE PTZ]** to disable PTZ function

3. Using the "**Up**" / "**Down**" button to select each option

PTZ Menu→PTZ Option

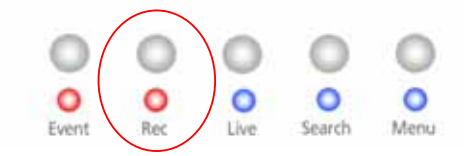
The PTZ option menu contains the following options

RECALL PRESET : Move the PTZ camera to the preset position
PROGRAM PRESET : Save the current position of the PTZ camera as the preset position
RECALL PATROL : Select the preset patrol for the PTZ camera
STOP PATROL : Stop the patrol for the PTZ camera
AUX CTRL : Control the auxiliary of the PTZ camera
IRIS CTRL : Control the iris of the PTZ camera
FOCUS CTRL : Control the focus of the PTZ camera
ZOOM CTRL : Control the zoom of the PTZ camera
AUTO : Rotate the PTZ camera automatically
DISABLE PTZ : Disable the PTZ camera control

For **[AUX CTRL]**, **[IRIS CTRL]**, **[FOCUS CTRL]** and **[ZOOM CTRL]** options, user can press "**Enter**" Enter or "**Back**" Back button to control their respective action.

(For detail PTZ camera setting, please refers to P.148 Connection to PTZ Cameras Part of Advance Operation Section of User Guide)

D. Recording Menu



1. Press the "**Rec**" button to pop up the main menu
2. Using the "**Up**" / "**Down**" button to select recording and set recording camera

The recording menu contains the following options

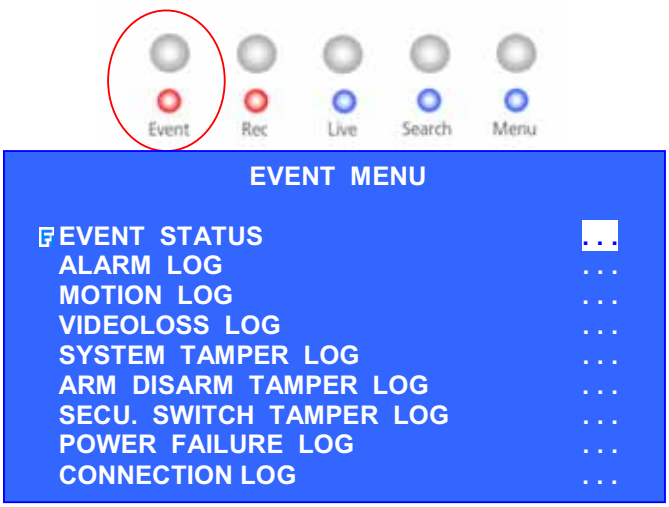
START RECORDING	: Start recording operation
RECORDING CAMERA	: Select the camera for recording

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 and it will not save any recording camera setting

Recording Menu

E. Event Menu



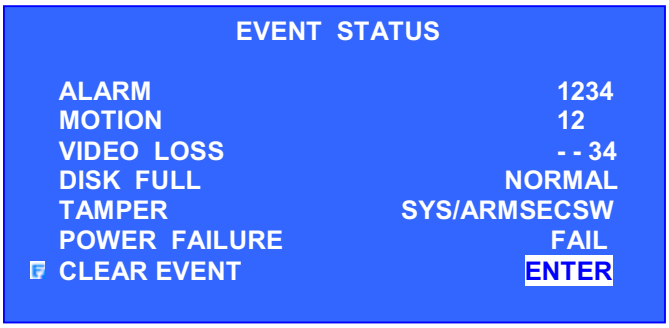
1. Press the "**Event**" Event button to pop up the event menu
2. Using the "**Up**" / "**Down**" button to select a sub-menu
3. A selected sub-menu option will be pointed by a hand cursor and highlighted
4. Press "**Enter**" Enter button to confirm the selection and pop up the sub-menu
5. The event menu contains the following options

EVENT STATUS	: Show event status
ALARM LOG	: Show the alarm log
MOTION LOG	: Show the motion log
VIDEOLOSS LOG	: Show the video loss log
SYSTEM TAMPER LOG	: Show the system tamper log
ARM DISARM TAMPER LOG	: Show the arm/disarm tamper log
SECU. SWITCH TAMPER LOG	: Show the security switch tamper log
POWER FAILURE LOG	: Show the power failure log
CONNECTION LOG	: Show the remote connection log

6. If menu option end with **[. . .]** indicates sub-menu existing, you can always press "**Enter**" Enter button to pop up the sub-menu.

7. You can press the "**Back**" button back to previous menu and "**Live**" button to exit menu.

Event Menu→ Event Status



The event status menu contains the following options

ALARM	: Show the alarm status
MOTION	: Show the motion status
VIDEO LOSS	: Show the video loss status
DISK FULL	: Show the hard disk status
SYSTEM FAILURE	: Show the system status
TAMPER	: Show the arm, security switch and system tamper status
POWER FAILURE	: Show the status of power failure input
CLEAR EVENT	: Clear event

Event Menu→ Alarm Log

ALARM LOG

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	- - - - - -

Action
R : Recording
S : Switch
D : Dial back
E : Email
B : Buzzer
P : PTZ camera

The alarm log contains the following status

DATE : Show the date log
TIME : Show the time log
CHANNEL : Show the alarm channel
STATUS : Show the status. Full description of status is shown as follow
- TGR → Alarm trigger
- TAMPER → Alarm tamper
- ARM → The system is armed
- DISARM → The system is disarmed
- SS ON → Security switch turns on
- SS OFF → Security switch turns off
- ENTRY → Entry delay occurs
- EXIT → Exit delay occurs
- RESET → Alarm reset

ACTION : Show the event associated action

Event Menu→ Motion Log

MOTION LOG

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

Action
R : Recording
S : Switch
D : Dial back
E : Email
B : Buzzer
P : PTZ camera

The motion log contains the following status

DATE : Show the date log
TIME : Show the time log
CHANNEL : Show the camera channel
STATUS : Show the status. Full description of status is shown as follow:
- TGR → Motion detection occur
- RESET → Motion reset

ACTION : Show the event associated action

Event Menu

Event Menu→ Video Loss Log

VIDEOLOSS LOG

DATE	TIME	CHANNEL	STATUS	ACTION
03AUG05	12 : 45 : 18	- - - 4 - - - -	RESET	- - - - - -
03AUG05	12 : 29 : 46	- - - 4 - - - -	TGR	R- D - B-
02AUG05	09 : 50 : 33	- - - - - - - -	RESET	- - - - - -
02AUG05	09 : 35 : 02	- 2 - - - - - -	TGR	- - - E - -
01AUG05	11 : 05 : 03	- - 3 - - - - -	TGR	- - - - - -
01AUG05	10 : 25 : 36	1 - - - - - - -	RESET	- - - - - -
01AUG05	10 : 10 : 10	1 - - - - - - -	TGR	- S- E - P
01AUG05	09 : 29 : 17	- - - - - - - -	RESET	- - - - - -

Action
R : Recording
S : Switch
D : Dial back
E : Email
B : Buzzer
P : PTZ camera

The video loss log contains the following status

DATE : Show the date log
TIME : Show the time log
CHANNEL : Show the camera channel
STATUS : Show the status. Full description of status is shown as follow:
TGR → Video loss occurs
RESET → Video loss reset
ACTION : Show the event associated action

Event Menu→ System Tamper Log

SYSTEM TAMPER LOG

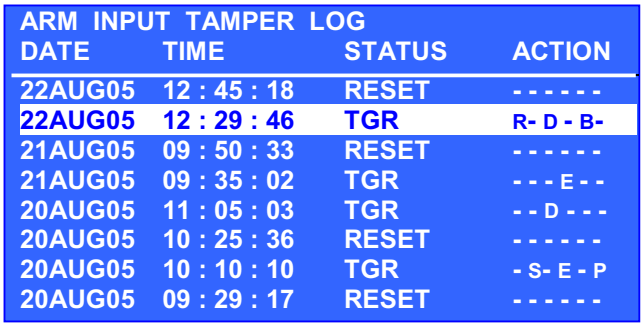
DATE	TIME	STATUS	ACTION
22AUG05	12 : 45 : 18	RESET	- - - - - -
22AUG05	12 : 29 : 46	TGR	R- D - B-
21AUG05	09 : 50 : 33	RESET	- - - - - -
21AUG05	09 : 35 : 02	TGR	- - - E - -
20AUG05	11 : 05 : 03	TGR	- - - - - -
20AUG05	10 : 25 : 36	RESET	- - - - - -
20AUG05	10 : 10 : 10	TGR	- S- E - P
20AUG05	09 : 29 : 17	RESET	- - - - - -

Action
R : Recording
S : Switch
D : Dial back
E : Email
B : Buzzer
P : PTZ camera

The system tamper log contains the following status

DATE : Show the date log
TIME : Show the time log
STATUS : Show the status. Full description of status is shown as follow:
TGR → System tamper occurs
RESET → System tamper reset
ACTION : Show the event associated action

Event Menu→ Arm Input Tamper Log



ARM INPUT TAMPER LOG

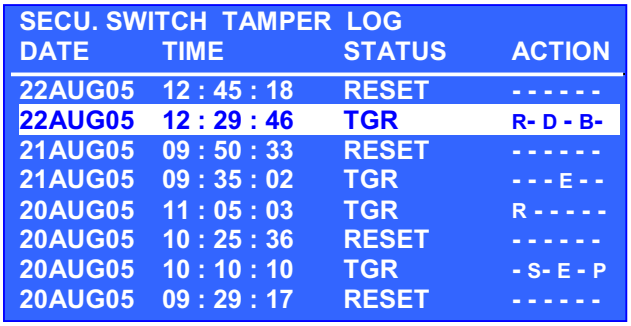
DATE	TIME	STATUS	ACTION
22AUG05	12 : 45 : 18	RESET	- - - - - -
22AUG05	12 : 29 : 46	TGR	R- D - B-
21AUG05	09 : 50 : 33	RESET	- - - - - -
21AUG05	09 : 35 : 02	TGR	- - - E - -
20AUG05	11 : 05 : 03	TGR	- - D - - -
20AUG05	10 : 25 : 36	RESET	- - - - - -
20AUG05	10 : 10 : 10	TGR	- S- E - P
20AUG05	09 : 29 : 17	RESET	- - - - - -

Action
R : Recording
S : Switch
D : Dial back
E : Email
B : Buzzer
P : PTZ camera

The arm input tamper log contains the following status

DATE : Show the date log
TIME : Show the time log
STATUS : Show the status. Full description of status is shown as follow:
TGR → Arm input tamper occurs
RESET → Arm input tamper reset
ACTION : Show the event associated action

Event Menu→ Security Switch Tamper Log



SECU. SWITCH TAMPER LOG

DATE	TIME	STATUS	ACTION
22AUG05	12 : 45 : 18	RESET	- - - - - -
22AUG05	12 : 29 : 46	TGR	R- D - B-
21AUG05	09 : 50 : 33	RESET	- - - - - -
21AUG05	09 : 35 : 02	TGR	- - - E - -
20AUG05	11 : 05 : 03	TGR	R - - - - -
20AUG05	10 : 25 : 36	RESET	- - - - - -
20AUG05	10 : 10 : 10	TGR	- S- E - P
20AUG05	09 : 29 : 17	RESET	- - - - - -

Action
R : Recording
S : Switch
D : Dial back
E : Email
B : Buzzer
P : PTZ camera

The security switch tamper log contains the following status

DATE : Show the date log
TIME : Show the time log
STATUS : Show the status. Full description of status is shown as follow:
TGR → Security switch tamper occurs
RESET → Security switch tamper reset
ACTION : Show the event associated action

Event Menu→ Power Failure Log

POWER FAILURE LOG

DATE	TIME	STATUS	ACTION
22AUG05	12 : 45 : 18	RESET	- - - - - -
22AUG05	12 : 29 : 46	TGR	R- D - B-
21AUG05	09 : 50 : 33	RESET	- - - - - -
21AUG05	09 : 35 : 02	TGR	- - - E - -
20AUG05	11 : 05 : 03	TGR	- - - - - -
20AUG05	10 : 25 : 36	RESET	- - - - - -
20AUG05	10 : 10 : 10	TGR	- S- E - P
20AUG05	09 : 29 : 17	RESET	- - - - - -

Action
R : Recording
S : Switch
D : Dial back
E : Email
B : Buzzer
P : PTZ camera

The power failure log contains the following status

DATE : Show the date log
TIME : Show the time log
STATUS : Show the status. Full description of status is shown as follow:
TGR → Power failure occurs
RESET → Power failure reset
ACTION : Show the event associated action

Event Menu→ Connection Log

CONNECTION LOG

DATE	TIME	USER	REMARK	IP/PHONE NO	DEVICE	STATUS
22AUG05	12 : 45 : 18	ADMIN	- - - -	192.168.0.2	TCP / IP	DISCONNECTED
22AUG05	12 : 29 : 46	ADMIN	DIAL IN	192.168.0.2	TCP / IP	CONNECTED
21AUG05	09 : 50 : 33	ADMIN	- - - -	192.168.0.2	TCP / IP	DISCONNECTED
21AUG05	09 : 35 : 02	ADMIN	DIAL BACK	192.168.0.2	TCP / IP	CONNECTED
20AUG05	11 : 05 : 03	ADMIN	- - - -	192.168.0.2	TCP / IP	DISCONNECTED
20AUG05	10 : 25 : 36	ADMIN	DIAL BACK	192.168.0.2	TCP / IP	CONNECTED
20AUG05	10 : 10 : 10	ADMIN	- - - -	192.168.0.2	TCP / IP	DISCONNECTED
20AUG05	09 : 29 : 17	ADMIN	DIAL BACK	192.168.0.2	TCP / IP	CONNECTED

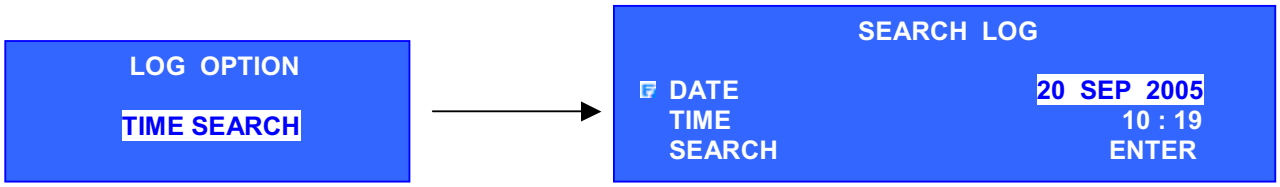
The connection log contains the following status

DATE : Show the date log
TIME : Show the time log
USER : Show the user type connected to the transmitter through remote software
REMARK : Show the connection triggered by user or dialback action
DIAL IN → Remote connect to transmitter
DIAL BACK → Transmitter connect to remote
IP/PHONE NO. : Show the IP or phone number of the remote host
DEVICE : Show connection method by the remote software
STATUS : Show the connection status

Event Menu

Event Menu→ XXXX Log→Search Log

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



The connection log contains the following options

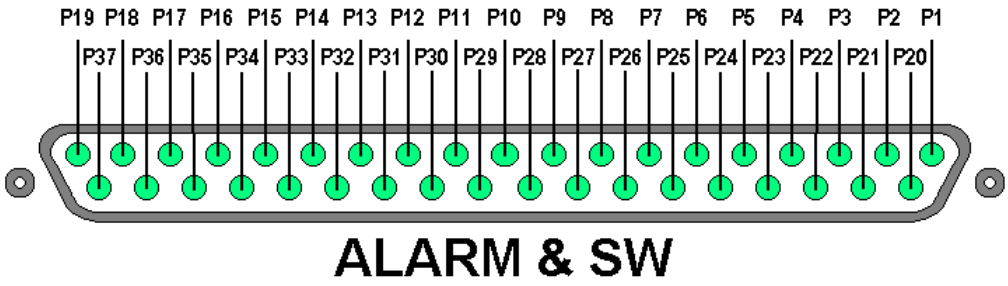
DATE : Set the search date
TIME : Set the search time
SEARCH : Search the nearest record according the **date** and **time**

SECTION 6

Advanced Operation

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

***Tele*Eye RX304** supports up to 4 alarm ports 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 RX304

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	N/A	Pin 24	GND
Pin 6	N/A	Pin 25	GND
Pin 7	N/A	Pin 26	GND
Pin 8	N/A	Pin 27	GND
Pin 9	N/A	Pin 28	ARM/DISARM
Pin 10	N/A	Pin 29	SECURITY SWITCH
Pin 11	N/A	Pin 30	POWER FAILURE
Pin 12	N/A	Pin 31	SYSTEM TAMPER
Pin 13	N/A	Pin 32	N/A
Pin 14	N/A	Pin 33	N/A
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		

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

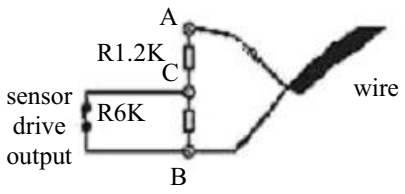
B. Install *Tele*Eye RX with Tamper Circuit and External Resistors

***Tele*Eye RX** supports tamper detection (DEOL and SEOL) on all alarm inputs, 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

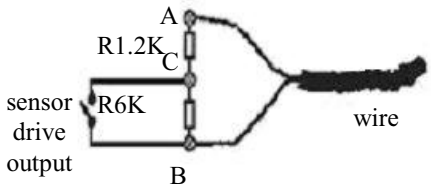
For example, by connecting the tamper circuit with DEOL, the circuit with the normal closed condition if the resistance between point A and B detect 1.2kΩ (shown as below), or the circuit with the normal open condition if the resistance between point A and B (shown as below) detect 7.2kΩ.The resistance transition from 1.2kΩ to 7.2kΩ is generated 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)

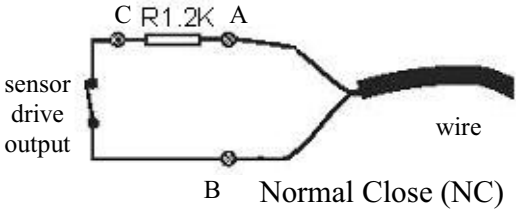
Term	Status	Description
S/C	TAMPER	Wire short (point A and B)
LoZ	NORMAL	Sensor drive output close (point B and C)
HiZ	ALARM	Sensor drive output open (point B and C)
O/C	TAMPER	Wire open (point A and B)



Normal Open (NO)

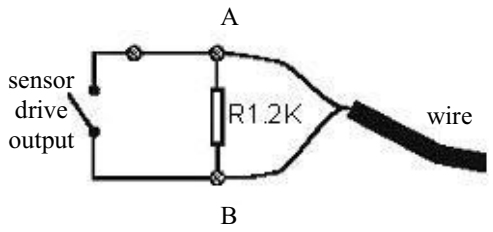
Term	Status	Description
S/C	TAMPER	Wire short (point A and B)
LoZ	ALARM	Sensor drive output close (point B and C)
HiZ	NORMAL	Sensor drive output open (point B and C)
O/C	TAMPER	Wire open (point A and B)

Single End of Line Configuration



Normal Close (NC)

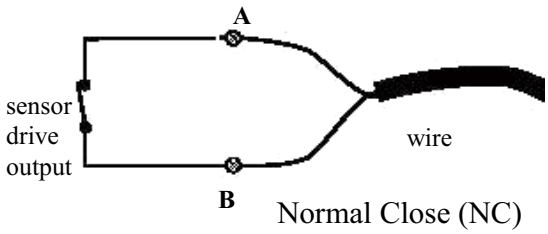
Term	Status	Description
S/C	TAMPER	Wire short (point A and B)
LoZ	NORMAL	Sensor drive output close (point B and C)
O/C	ALARM	Sensor drive output open (point B and C)



Normal Open (NO)

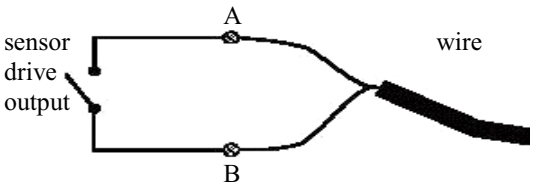
Term	Status	Description
S/C	ALARM	Sensor drive output close (point A and B)
LoZ	NORMAL	Sensor drive output open (point A and B)
O/C	TAMPER	Wire open (point A and B)

Without Tamper Detection Circuit Configuration



Normal Close (NC)

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



Normal Open (NO)

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

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

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

Notes:

The below table 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.***

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)

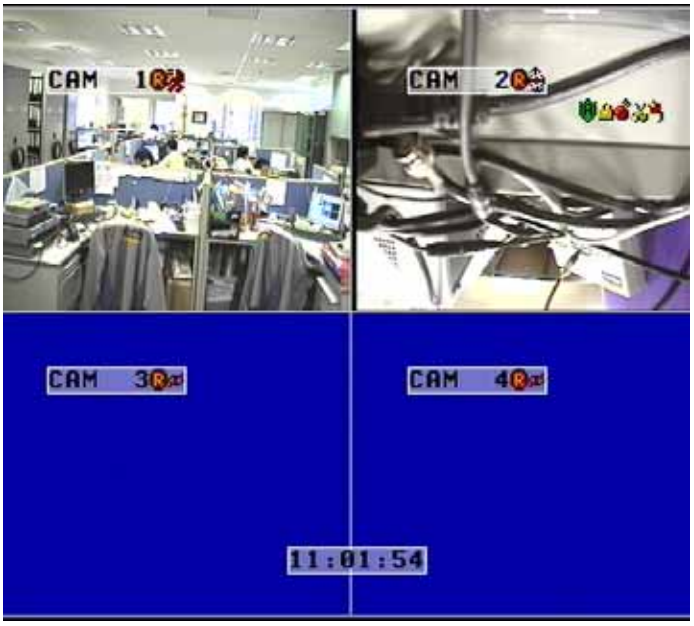
Alarm (N/A): Alarm with not applicable.

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

C. Event Handling

***Tele*Eye RX** transmitter supports 7 events and their icons are as follows.

1. **Arm/Disarm**
2. **Security Switch**
3. **Alarm**
4. **Motion**
5. **Videoloss**
6. **System Tamper**
7. **Power Failure**



***Tele*Eye RX** supports 7 actions which can be activated by any events as above.

1. **Recording**
2. **Switch**
3. **Dialback**
4. **Buzzer**
5. **Event LED**
6. **Live Camera**
7. **PTZ**

Event and Action Icons in Local CCTV Monitor

The icons of the 7 events are shown as above. If an event is triggering, its respective icon is **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**, **videoloss**). If an event has been triggered before without clear, its icon remains static on its original position. Full event and action icons are shown as the above figure.

Event Handling

I. Arm/Disarm

Arm/Disarm 

Arm/Disarm input is used for enhancing security level of the surveillance area. This input introduce the concept of 3 zone types for 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 transmitter. This event can be triggered immediately no matter which zone is. Arm/Disarm tamper type has choice of none, SEOL, DEOL. (Please refers to P.100 Tamper Circuit Section of User Guide)

Arm State

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

Zone Type

Although the setting of zone type belongs to alarm menu, it is worth to discuss as below.

- **Fire Zone**

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

- **Normal**

  This zone allows alarms to trigger after armed.

- **Entry/Exit Zone**

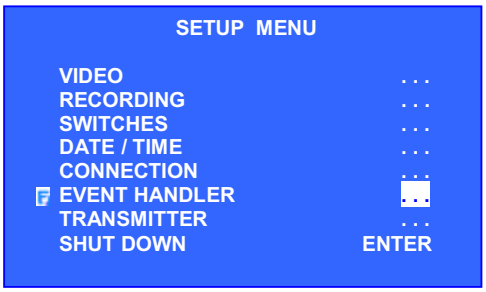
  This zone allows user to set the delay time for entering or leaving the surveillance area without triggering any alarm event. If alarm recording action is enabled, recording starts at entry or exit time through out the delay.

  (For detail usage example, please refers to P.111 Alarm Part in Event Handling Section of User Guide.)

Physical Configuration for Arm/Disarm

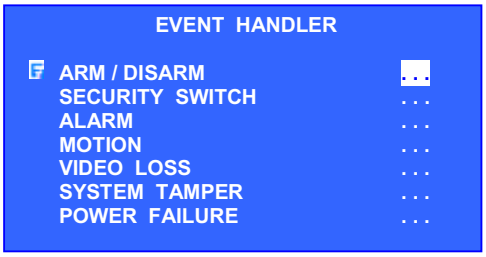
The arm/disarm input and ground of ***Tele*Eye RX** transmitter needs to connect to a control unit which is commonly a switch or password panel for arm/disarm input.

Arm/Disarm Setup Procedure



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

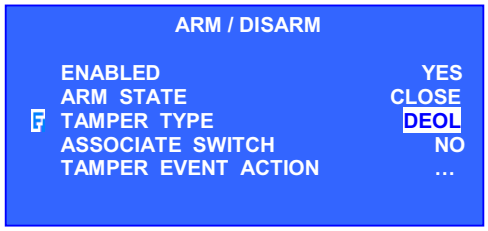
Event Handling



Step 2: Select **[ARM/DISARM]** option and press "**Enter**" Enter button to show arm/disarm setting menu.

Step 3: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) the arm/disarm function.

Step 4: 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.



Step 5: Select **[TAMPER TYPE]** option and use "**Left**" or "**Right**" button to choose arm/disarm tamper circuit type according to the configuration of ***Tele*Eye RX** arm/disarm tamper circuit type.

Event Handling

Step 6: Select **[ASSOCIATE SWITCH]** option and use "**Left**" or "**Right**" button 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 any more if it is an associate switch of arm/disarm.

Step 7: Select **[TAMPER EVENT ACTION]** option and press "**Enter**" button to select arm/disarm tamper action. (For action, please refers to Event Action Part in Advance Operation Section of User Guide)

II. Security Switch

Security Switch

It is an input to the transmitter 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 triggered, entry delays will start.

Security Switch Tamper Type

Security switch tamper event triggers if someone cuts the wire between the security switch input and the transmitter. This event behaves as fire zone type that can be triggered once the wire being cut. Arm/Disarm tamper type has choice of none, SEOL, DEOL. (Please refers to P.100 Tamper Circuit Section of the User Guide)

On State

The security switch input circuit type is **normal close (NC)**. The state of the circuit is **close**, it indicates **security switch off** of ***Tele*Eye RX**. Otherwise, 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)**. The state of the circuit is **open**, it indicates **security switch off** of ***Tele*Eye RX**. Otherwise, the state of the circuit is **close**, it indicates **security switch on** of ***Tele*Eye RX**.

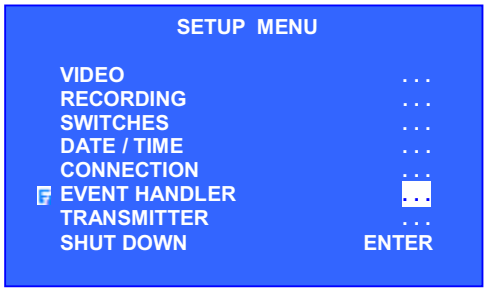
(For detail usage, please refers to P.111 Alarm Part in Event Handling Section of User Guide.)

Physical Configuration for Security Switch

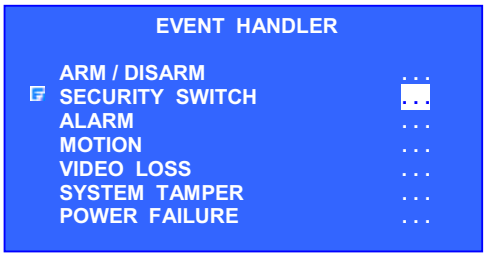
The security switch input and ground of ***Tele*Eye RX** transmitter needs to connect to a control unit which is commonly the lock of the surveillance area for security switch input.

Event Handling

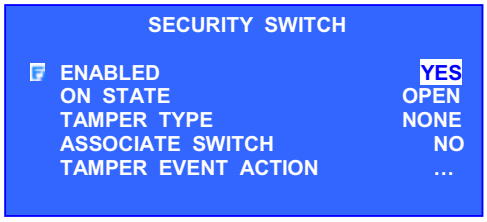
Security Switch Setup Procedure



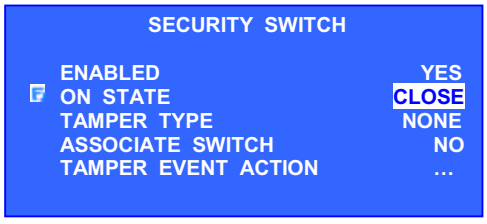
Step 1: Press "**Menu**" button, select **[SETUP]** option and press "**Enter**" Enter button to enter **[SETUP]** sub menu. Select **[EVENT HANDLER]** option and press "**Enter**" Enter button.



Step 2: Select **[SECURITY SWITCH]** option and press "**Enter**" Enter button to show security switch setting menu.

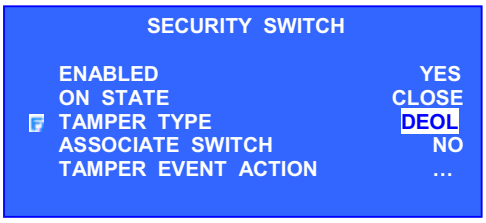


Step 3: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) the security switch function.

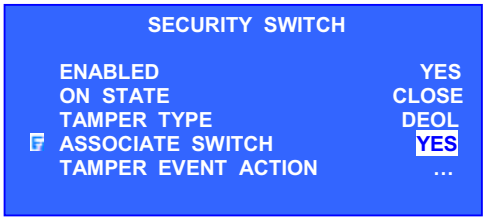


Step 4: Select **[ON STATE]** option and use "**Left**" or "**Right**" button to choose on state according to the configuration of ***Tele*Eye RX** security switch control circuit type.

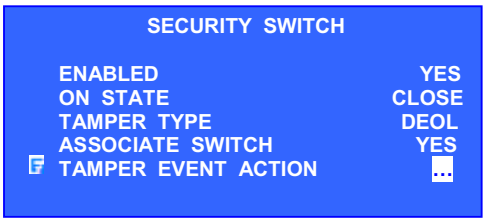
Event Handling



Step 5: Select **[TAMPER TYPE]** option and use "**Left**" or "**Right**" button to choose security switch tamper circuit type according to the configuration of ***Tele*Eye RX** security switch tamper circuit type.



Step 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 any more if it is an associate switch of security switch.



Step 7: Select **[TAMPER EVENT ACTION]** option and press "**Enter**" button to select security switch tamper action. (For action, please refers to Event Action Part in Advance Operation Section of User Guide)

Event Handling

III. Alarm

Alarm 

It is an input to the transmitter 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 function.

Sensor Tamper Type

Alarm tamper event triggers if someone cuts the wire between the alarm input and the transmitter. This event behaves as fire zone type that can be triggered once the wire being cut. Alarm tamper type has choice of none, SEOL, DEOL. (Please refers to P.100 Tamper Circuit Section of User Guide)

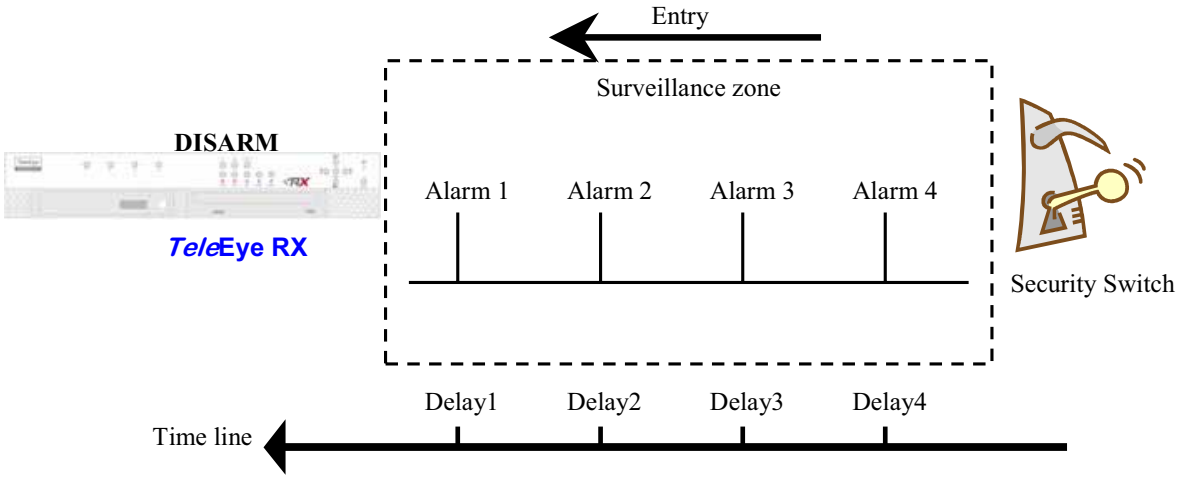
Sensor Type

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

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 transmitter. 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.

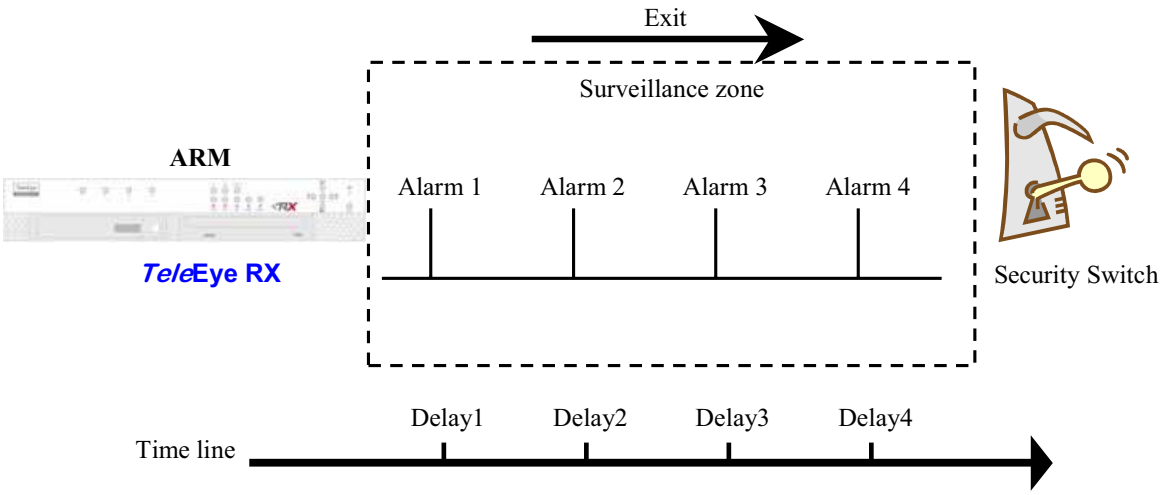
The detail procedure is as below:

1) user turns off security switch
2) the alarm is at entry delay
3) the 1st trigger is made by Alarm 4 (i.e. user enter the surveillance zone and the entry delay time begin)
4) 2nd, 3rd and 4th 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 transmitter 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.

Event Handling

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 of time to leave the surveillance zone after the transmitter is armed. User / installer can set the delay time for each alarm.

The detail procedure is as below:

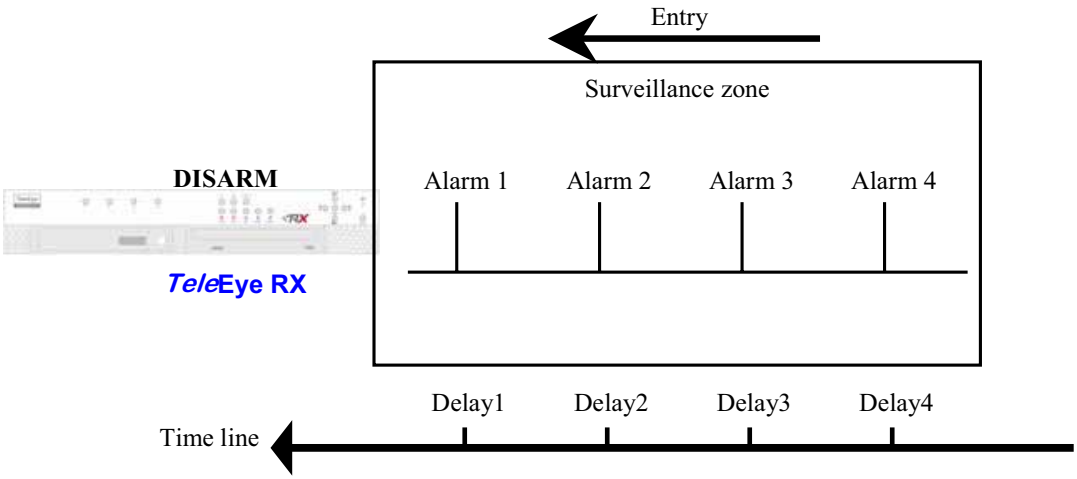
1) user arms the system
2) the alarm is at exit delay
3) the 1st trigger is made by Alarm 1 (i.e. user leave the surveillance zone and the exit delay time begin)
4) 2nd, 3rd and 4th trigger are made and each exit delay starts respectively
5) user turns off the security switch or waits for any alarm exit 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 transmitter and Alarm 1, Delay 2 = leaving time between transmitter and Alarm 2, Delay 3 = leaving time between transmitter 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.

Event Handling

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 transmitter. 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.

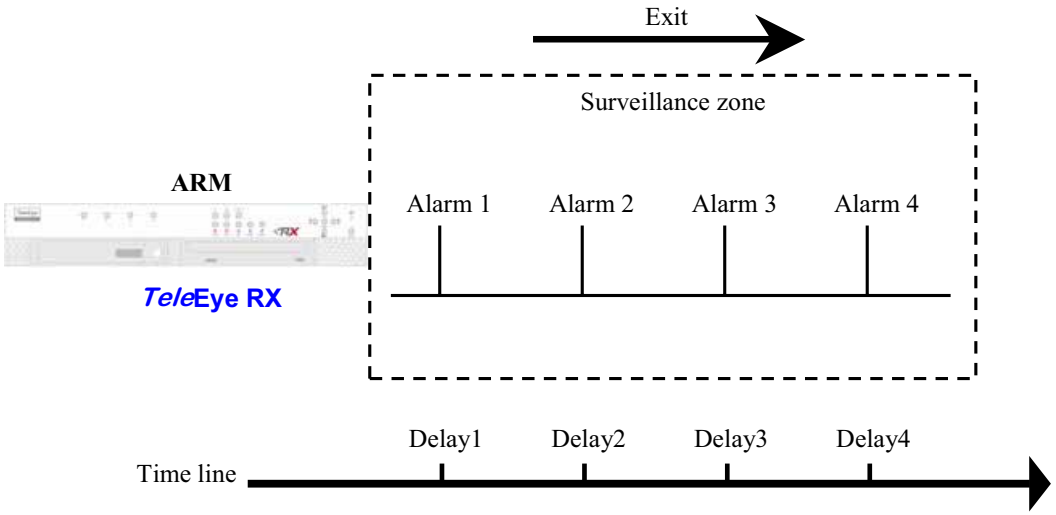
The detail procedure is as below:

1) the alarm is at entry delay
2) the 1st trigger is made by Alarm 4 (i.e. user enter the surveillance zone and the entry delay time begin)
3) 2nd, 3rd and 4th 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 transmitter 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.

Event Handling

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 of time to leave the surveillance zone after the transmitter 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
3) the 1st trigger is made by Alarm1 (i.e. user leave the surveillance zone and the exit delay time begin)
4) 2nd, 3rd and 4th 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 transmitter and Alarm 1, Delay 2 = leaving time between transmitter and Alarm 2, Delay 3 = leaving time between transmitter 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.

Event Handling

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

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

Event Handling

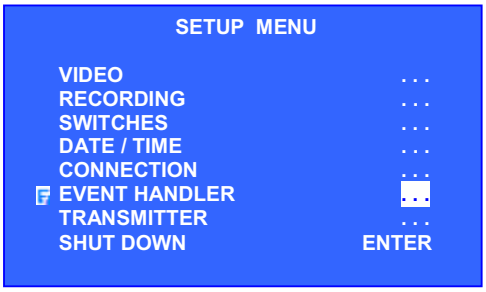
Initial State			Step 1	Step 2	Step 3	Result
Arm	Security Switch	Alarm				
Entry / Exit Zone						
Arm	On	No trigger	Security switch off	Trigger alarm. Entry delay starts. Recording starts (if recording action is enabled)	Disarm	No alarm trigger. Recording stops
					Arm	Alarm is triggered Recording does 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
Arm	Uninstall	No trigger	Trigger alarm. Entry delay starts. Recording starts (if recording action is enabled)	Disarm	\	No alarm trigger. Recording stops.
				Arm	\	Alarm is triggered. Recording does not stop unless user disarm the system.
Disarm		No trigger	Trigger alarm	\	\	No alarm trigger
Uninstall		No trigger	Trigger alarm	\	\	Alarm trigger
Uninstall	Uninstall	No trigger	Trigger alarm	\	\	Alarm trigger

Physical Configuration for Alarm

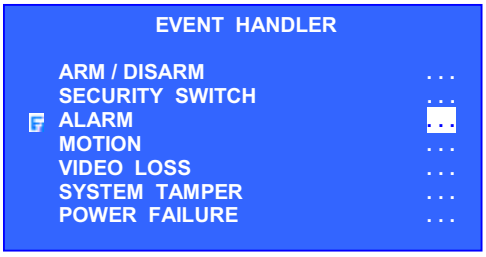
The alarm input and ground of ***Tele*Eye RX** transmitter need to connect to various kinds of sensors which are commonly installed at entrance or special part of the surveillance area.

Event Handling

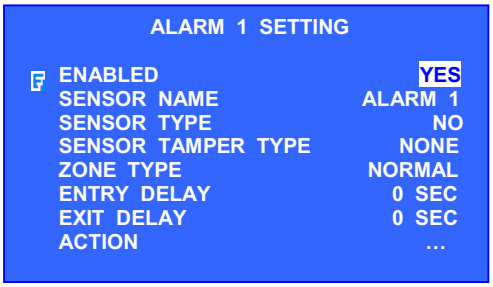
Alarm Setup Procedure



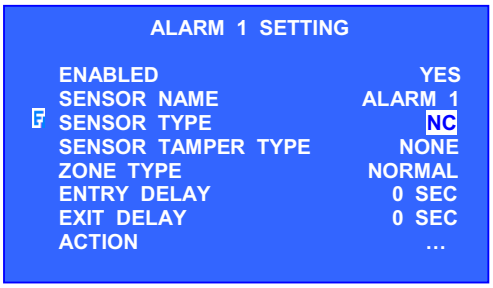
Step 1: Press "**Menu**" button, select **[SETUP]** option and press "**Enter**" Enter button to enter **[SETUP]** sub menu. Select **[EVENT HANDLER]** option and press "**Enter**" Enter button.



Step 2: Select **[ALARM]** option and press "**Enter**" Enter button to show the alarm selection menu. Select appropriate alarm and press "**Enter**" Enter button to enter the alarm setting menu.

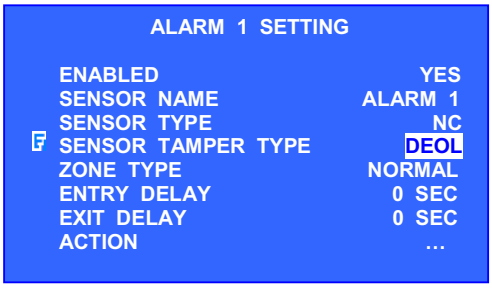


Step 3: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) alarm.

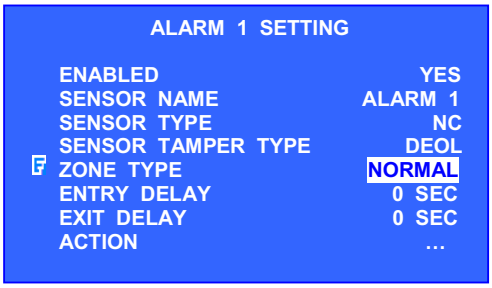


Step 4: Select **[SENSOR TYPE]** option and use "**Left**" or "**Right**" button to choose sensor type according to the configuration of ***Tele*Eye RX** alarm sensor control circuit type.

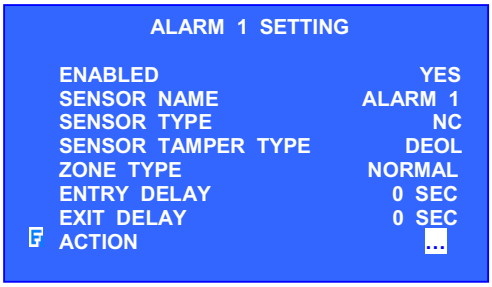
Event Handling



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



Step 6: Select **[ZONE]** option and use "**Left**" or "**Right**" button to choose zone type. Select **[ENTRY DELAY]**, **[EXIT DELAY]** option and use "**Left**" or "**Right**" button to choose entry and exit delay



Step 7: Select **[ACTION]** option and press "**Enter**" Enter button to select alarm trigger or tamper action. (For action, please refers to Event Action Part in Advance Operation Section of User Guide)

Event Handling

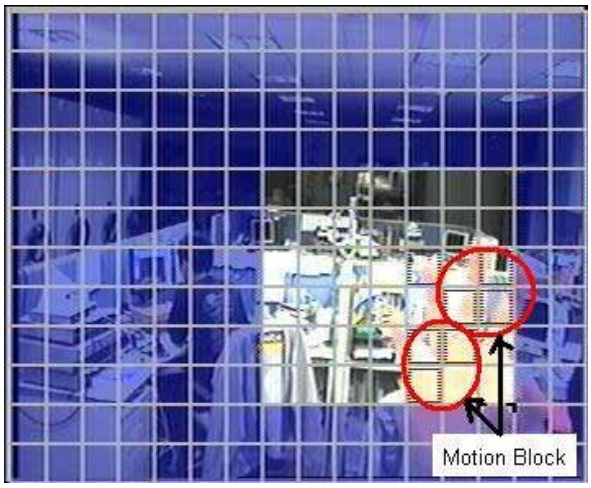
IV. Motion

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 setup 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 blue area cannot detect any motion. Motion block is activated when there is any movement on the camera.

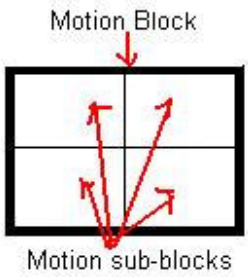
Sensitivity

- **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

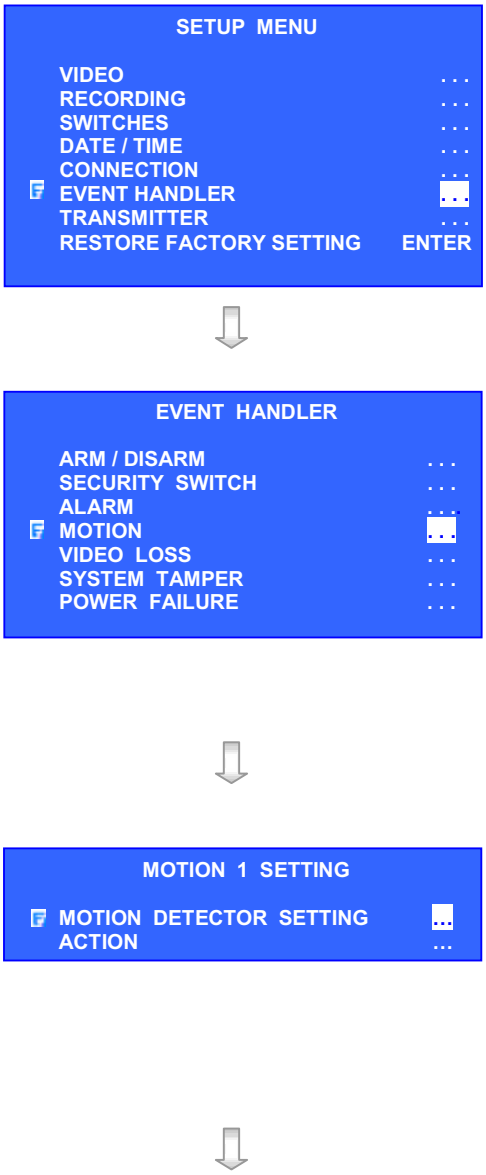
- **Area**

  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 decrease.



Event Handling

Motion Setup Procedure

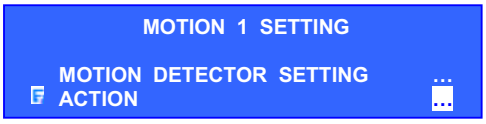


Step 1: Press "**Menu**" button, select **[SETUP]** option and press "**Enter**" Enter button to enter **[SETUP]** sub menu. Select **[EVENT HANDLER]** option and press "**Enter**" Enter button.

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

Step 3: Select **[MOTION DETECTIOR SETTING]** option and press "**Enter**" Enter button to setup motion detection setting.

Event Handling



Step 4: Setting motion detection as follow:

ENABLED: enable the motion detection of the camera

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**

OK: finish, save the setting and exit the detection menu

Step 5: Select **[ACTION]** option and press "**Enter**" Enter button to select alarm trigger or tamper action. (For action, please refers to Event Action Part in Advance Operation Section of User Guide)

Event Handling

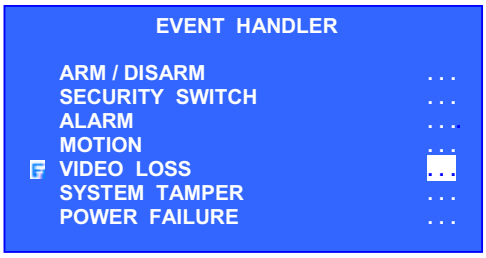
V. Video Loss

Video Loss

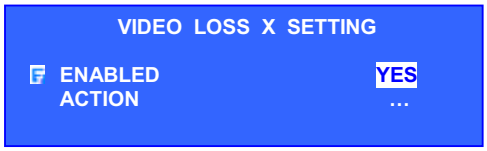
Video loss can be triggered when the video channel input disappears. It will happen if the transmitter receives no signal from the camera. The local CCTV monitor displays a blue screen for video loss condition.

Video Loss Setup Procedure

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

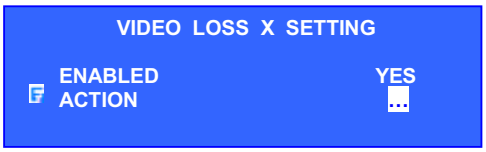


Step 2: Select **[VIDEO LOSS]** option and press "**Enter**" button to show the camera selection menu. Select a camera and press "**Enter**" button to enter the video loss setting menu.



Step 3: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) video loss event handler.

Event Handling



Step 4: Select **[ACTION]** option and press "**Enter**" Enter button to select alarm trigger or tamper action. (For action, please refers to Event Action Part in Advance Operation Section of User Guide)

VI. System Tamper

System Tamper Input

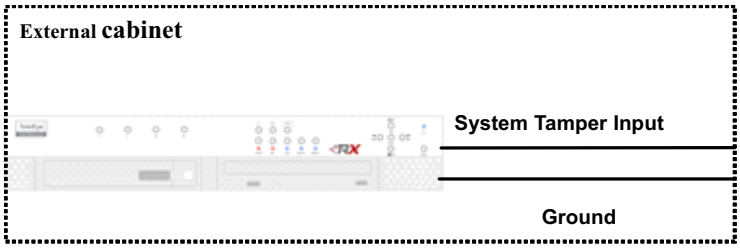
It is an input to the transmitter for wiring a tamper switch of the external cabinet outside the transmitter and its accessories. The purpose of system tamper event is to prevent someone to break into the cabinet and destroy the transmitter.

Sensor Type

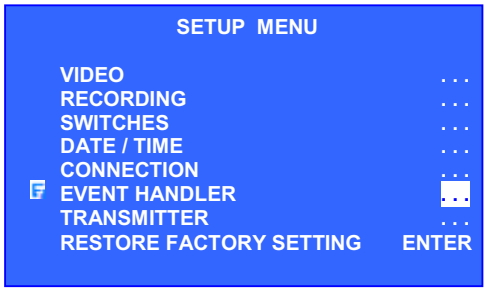
The system tamper input circuit type is **normal close (NC)**. The state of the circuit is **close**, it indicates **normal** of ***Tele*Eye RX**. Otherwise, the state of the circuit is **open**, it indicates **system tamper** of ***Tele*Eye RX**. The system tamper input circuit type is **normal open (NO)**. The state of the circuit is **open**, it indicates **normal** of ***Tele*Eye RX**. Otherwise, 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** transmitter need to connect to an external cabinet which is used for protecting the transmitter and its accessories

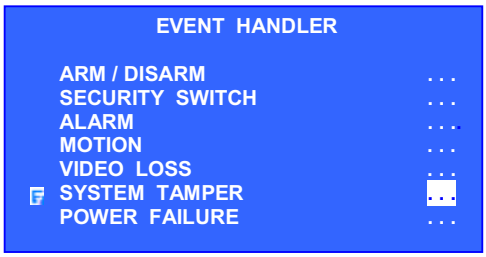


System Tamper Setup Procedure

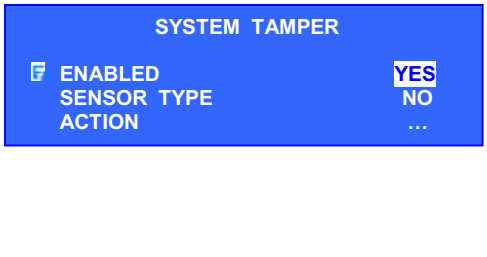


Step 1: Press "**Menu**" button, select **[SETUP]** option and press "**Enter**" button to enter **[SETUP]** sub menu. Select **[EVENT HANDLER]** option and press "**Enter**" button.

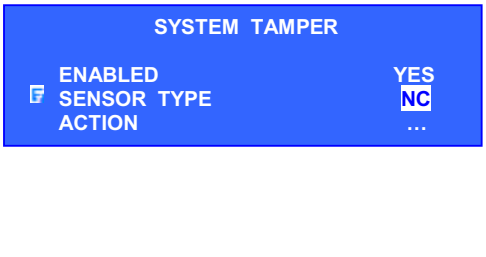
Event Handling



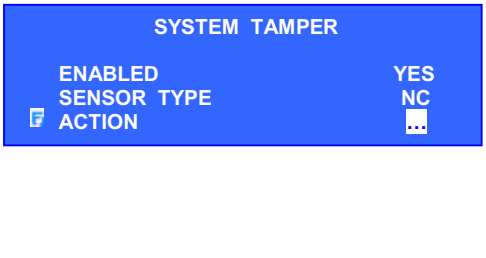
Step 2: Select **[SYSTEM TAMPER]** option and press "**Enter**" Enter button to show the system tamper menu and press "**Enter**" Enter button to enter the System Tamper setting menu.



Step 3: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) System Tamper event handler.



Step 4: Select **[SENSOR TYPE]** option and use "**Left**" or "**Right**" button to choose sensor type according to the configuration of ***Tele*Eye RX** system tamper control circuit type



Step 5: Select **[ACTION]** option and press "**Enter**" Enter button to select system tamper action. (For action, please refers to Event Action Part in Advance Operation Section of User Guide)

Event Handling

VII. Power Failure

Power Failure Input

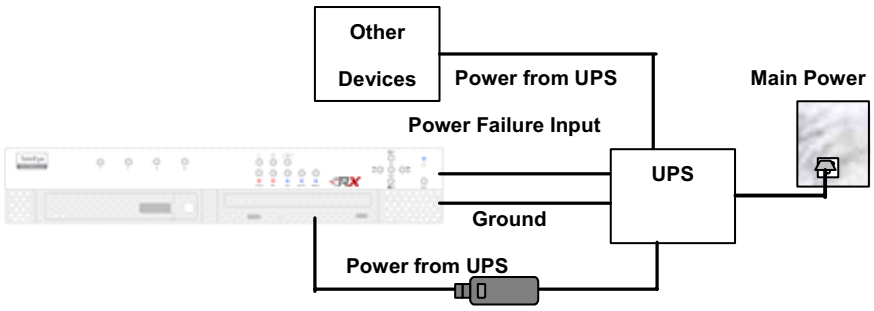
It is an input to the transmitter typically used for wiring the output signal pin from UPS.

Sensor Type

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

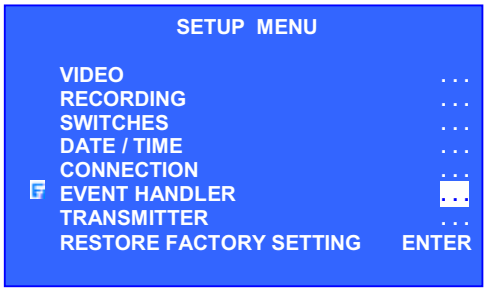
Physical Configuration for Power Failure Input

The power failure input and ground of ***Tele*Eye RX** transmitter need to connect to a universal power supply circuit UPS, so the transmitter can detect any power failure condition. ***Note that below UPS circuit setup 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.***



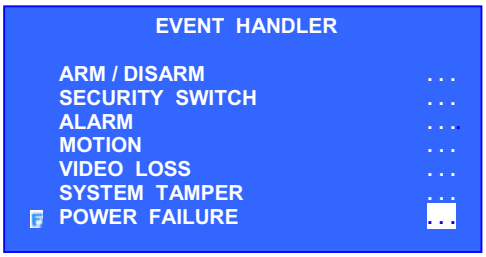
UPS provide backup power in certain period and send a power failure signal to RX when the main power does not work.

Power Failure Setup Procedure

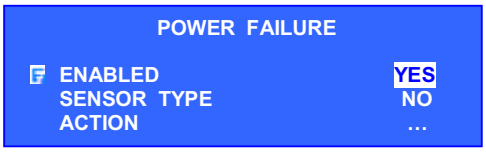


Step 1: Press "**Menu**" button, select **[SETUP]** option and press "**Enter**" button to enter **[SETUP]** sub menu. Select **[EVENT HANDLER]** option and press "**Enter**" button.

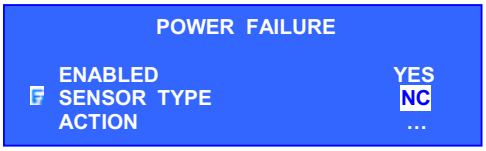
Event Handling



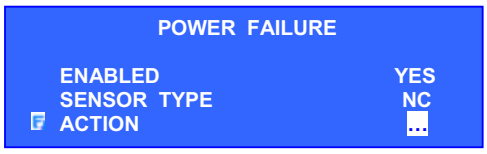
Step 2: Select **[POWER FAILURE]** option and press "**Enter**" Enter button to enter the power failure setting menu.



Step 3: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) power failure event handler.



Step 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



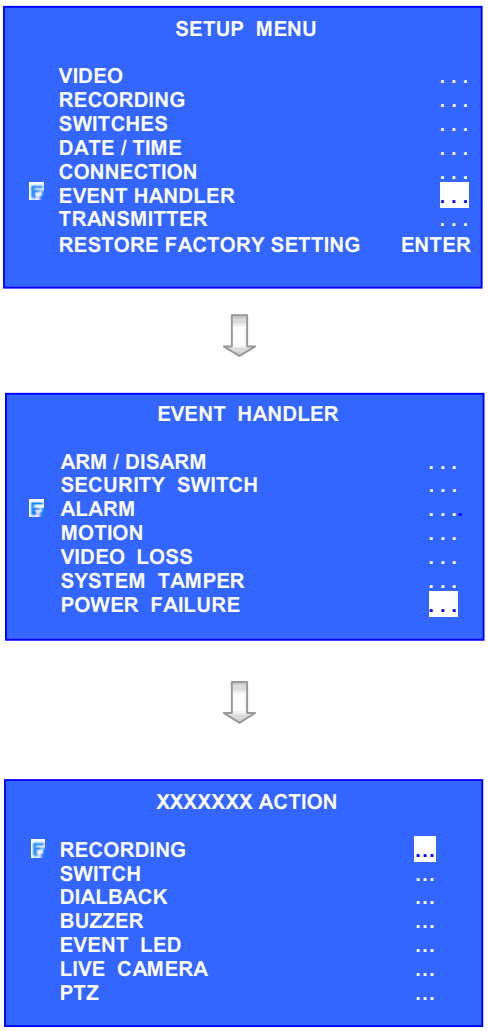
Step 5: Select **[ACTION]** option and press "**Enter**" Enter button to select power failure action. (For action, please refers to Event Action Part in Advance Operation Section of User Guide)

Event Handling

D. Event Action

***Tele*Eye RX** supports event actions such as **Recording, Switch, Dial back, Buzzer, Event LED, Live camera and PTZ** when event detected from alarm, tamper of alarm, motion, video loss, tamper of arm/disarm, tamper of security switch, power failure and system tamper.

Event Action Setup Procedure



Step 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.

Step 2: Select **any event** option and press "**Enter**" Enter button to enter the setting menu.

Step 3: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) event handler.

Step 4: Select **[ACTION]** option and press "**Enter**" Enter button to enter the action menu.

Event Action

I. Recording

Recording

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

Pre-Alarm Recording

Pre-alarm recording allows to record video before an event trigger. 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.

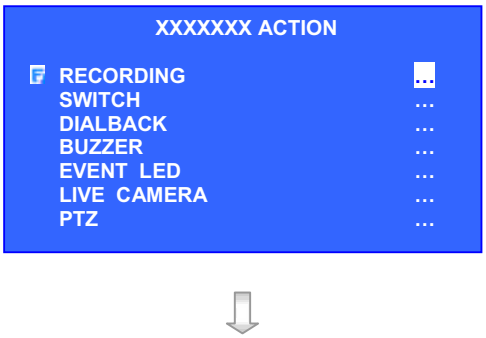
Duration After Event Clear

After event resets, the recording action will stop after this duration time.

Recording Mode

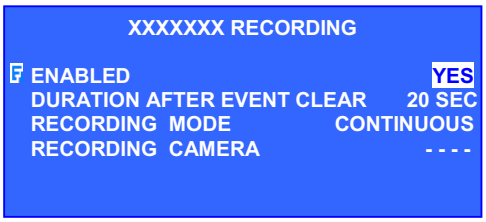
Event recording provides 2 recording mode, **1 frame per second** (**1 FPS**) and **continuous mode**. In 1 FPS mode, the recording frame rate is less, so the storage size is small. In continuous mode, the recording frame rate depends on the number of recording camera and more than 1 FPS, so the storage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

Recording Action Setup Procedure



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

Event Action



Step 2: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) recording action.

Step 3: Select the **[DURATION AFTER EVENT CLEAR]** and **[RECORDING MODE]** options and uses the "**Left**" or "**Right**" button to choose the suitable setting.

Step 4: Select **[RECORDING CAMERA]** option and press "**Enter**" Enter button to enter the recording camera menu.

Step 5: Use the "**Left**" or "**Right**" button to select camera and press the "**Up**" or "**Down**" button to enable or disable recording camera.

Step 6: Press "**Enter**" Enter button to save the camera setting and go back to recording action menu.

Step 7: You can press "**Live**" button to exit OSD menu or press "**Back**" Back button to enter action menu again.

Event Action

II. Switch

Switch allows transmitter 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

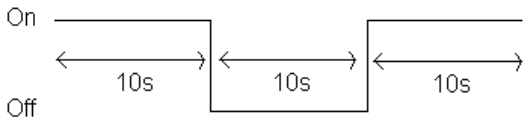
The latch duration period is the time for turning on the switch.

Action Delay

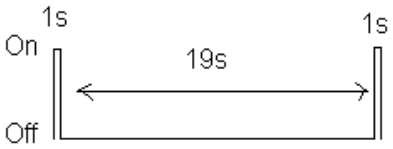
The delay is the period of time after turning off the switch before next turning on.

Latching Duration and Action Delay Example

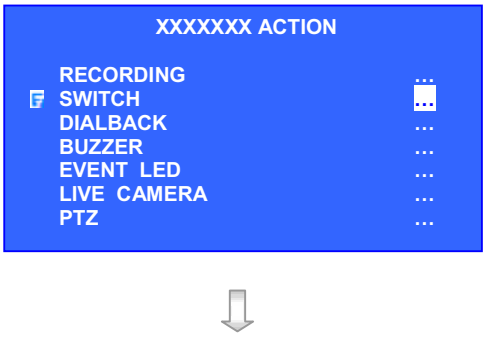
For latch type switch, set latch duration 10sec and action delay 10sec. If an event trigger, the timing of the switch is shown on the right.



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

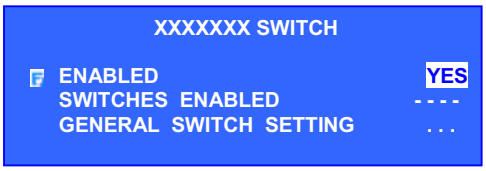


Switch Action setup procedure



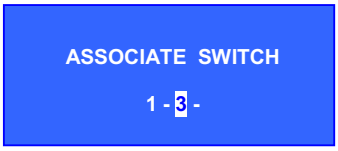
Step 1: In the action menu, select **[SWITCH]** option and press "**Enter**" Enter button to enter the switch action setting menu.

Event Action



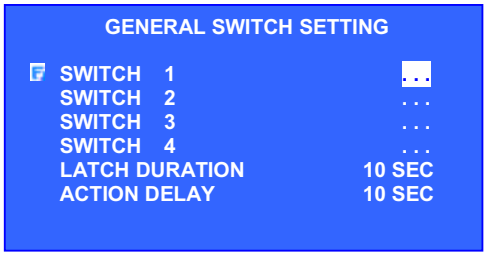
Step 2: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) switch action.

Step 3: Select **[SWITCHES ENABLED]** option and press "**Enter**" Enter button to enable or disable the switches.



Step 4: Use the "**Left**" or "**Right**" button to select switch and press the "**Up**" or "**Down**" button to enable or disable switch.

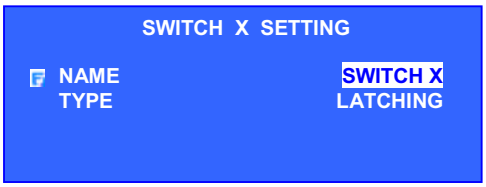
Step 5: Press "**Enter**" Enter button to save the selection setting and go back to switch action menu.



Step 6: Select **[GENERAL SWITCH SETTING]** option and press "**Enter**" Enter button to enter the switch setting menu.

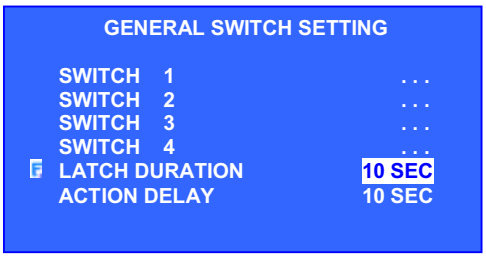
Step 7: Select **[SWITCH (No.)]** option and press "**Enter**" Enter button to enter the switch (No.) setting menu.

Event Action



Step 8: Select **[NAME]** option and press "**Enter**" Enter button to edit the name of switch (No.).

Step 9: Select **[TYPE]** option and press the "**Left**" or "**Right**" button to choose the switch type. Press the "**Back**" Back button to go back the general switch setting menu and save the setting.



Step 10: Select **[LATCH DURATION]** option and press the "**Left**" or "**Right**" button to choose the latch duration.

Step 11: Select **[ACTION DELAY]** option and press the "**Left**" or "**Right**" button to choose the switch action delay between each on/off.

Step 12: You can press "**Live**" Live button to exit OSD menu or press "**Back**" Back button to enter action menu again.

Event Action

III. Dialback

Dialback

Dialback allows the transmitter to connect to **one** remote PC and displays live video if an event triggers. Therefore, remote operator can recognize what situation is at the surveillance area.

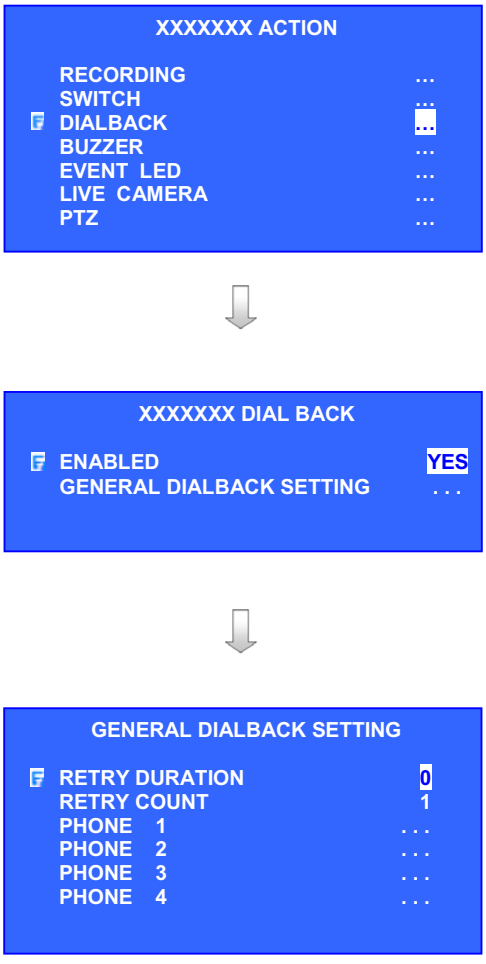
Retry Duration

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



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

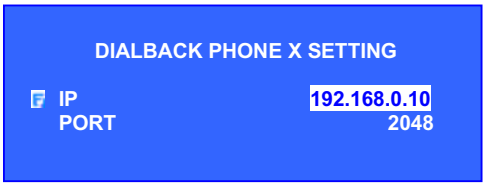
Step 2: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) dialback action.

Step 3: Select **[GENERAL DIALBACK SETTING]** option and press "**Enter**" Enter button to enter the dialback setting menu.

Event Action

Step 4: Select **[RETRY DURATION]** option and press the "**Left**" or "**Right**" button to choose the retry duration.

Step 5: Select **[RETRY COUNT]** option and press the "**Left**" or "**Right**" button to choose the retry count.



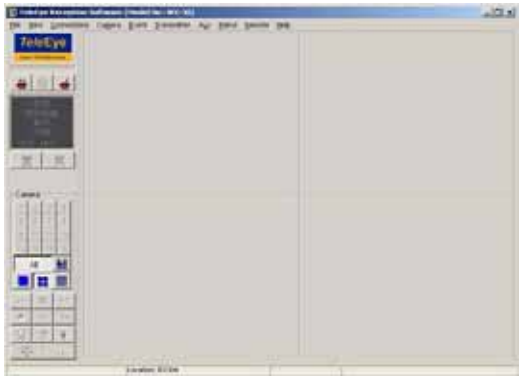
Step 6: Select **[PHONE (No.)]** option and press "**Enter**" Enter button to enter the dialback IP setting menu.

Step 7: 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**" Enter button to save the change and return previous menu.

Step 8: Select **[PORT]** option and press "**Enter**" Enter button to set port. Use "**Left**" or "**Right**" button to select field and use "**Up**" or "**Down**" button to set number. Press "**Enter**" Enter button to save the change and return previous menu.

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

Event Action



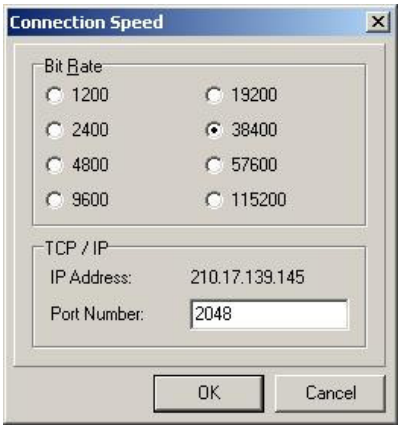
Step 10: Run **WX-30** software at the local network PC. (For details of WX-30 software installation, please refer to WX-30 Software Guide)

Step 11: Press **[Alarm Standby]**  icon for activating dialback action standby

Step 12: **[Alarm Password]** message broad pops up. Enter alarm password and press **[OK]** icon

(Default alarm password of WX-30 is 000000)

Step 13: Press the icon  to select the connection type for dialback



Step 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**

Step 15: Press **[OK]** icon to exit and save the settings

Event Action

IV. Buzzer

Buzzer

This buzzer contains inside the ***Tele*Eye RX** transmitter. It can produce **"Beep"** sound in order to draw nearby operator attention about an event trigger.

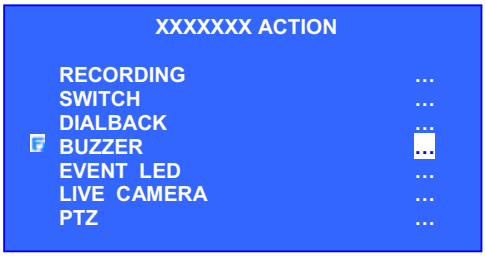
Duration

Duration is the period for turning on the buzzer.

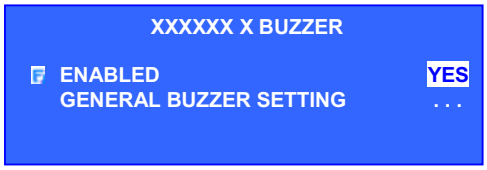
Action Delay

Action delay is the period after turning off the buzzer turning on.

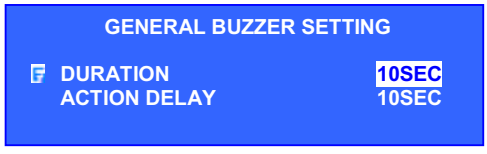
Buzzer Action setup procedure



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



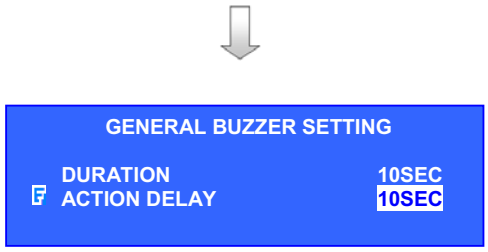
Step 2: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) buzzer action.



Step 3: Select **[GENERAL BUZZER SETTING]** option and press "**Enter**" Enter button to enter the buzzer setting menu.

Step 4: Select **[DURATION]** option and press the "**Left**" or "**Right**" button to choose the duration.

Event Action



Step 5: Select **[ACTION DELAY]** option and press the "**Left**" or "**Right**" button to choose the action delay

Step 6: You can press "**Live**" button to exit OSD menu or press "**Back**" button to enter action menu again.

Event Action

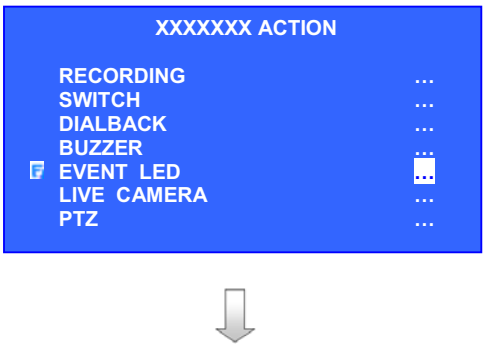
V. Event LED

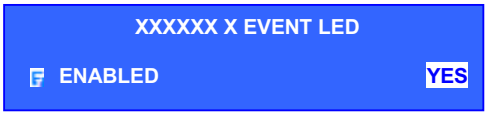
Event LED

The event LED is the LED built on the front panel of ***Tele*Eye RX** transmitter 

. If an event trigger, the LED is blinking until the event is clear.

Event LED Action setup procedure





Step 1: In the action menu, select **[EVENT LED]** option and press "**Enter**" 

button to enter the event LED action setting menu.

Step 2: Select **[ENABLED]** option and use "**Left**"  or "**Right**"  button to enable (i.e. set the value to **[YES]**) event LED action.

Step 3: You can press "**Live**" 

button to exit OSD menu or press "**Back**" 

button to enter action menu again.

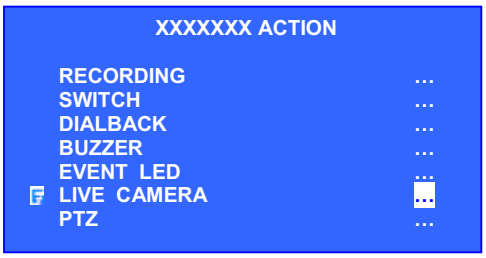
Event Action

VI. Live Camera

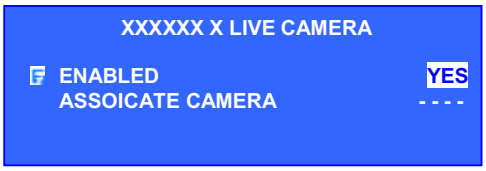
Live Camera

Event associate live camera display real time live video of pre-selected camera if an event triggers, so operator can immediately know what happen from the site. Live camera action can only display live video **one** time before user clears the event.

Live Camera Action setup procedure



Step 1: In the action menu, select **[LIVE CAMERA]** option and press "**Enter**" Enter button to enter the live camera action setting menu.



Step 2: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) live camera action.

Event Action

Step 3: Select **[ASSOCAITE CAMERA]** option and press "**Enter**" Enter button to enter the live camera action setting menu. Use the "**Left**" 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 live camera action menu.

Step 4: You can press "**Live**" button to exit OSD menu or press "**Back**" Back button to enter action menu again.

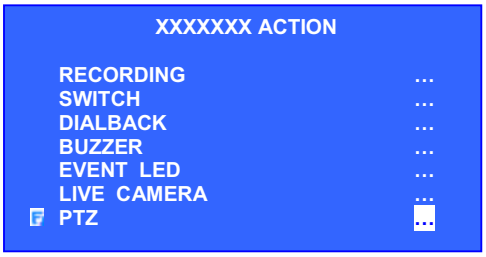
Event Action

VII. PTZ

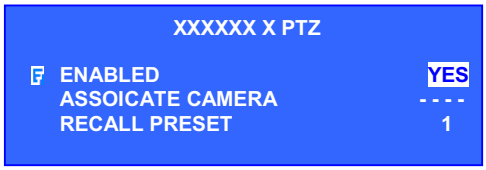
PTZ Camera

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

PTZ Action setup procedure



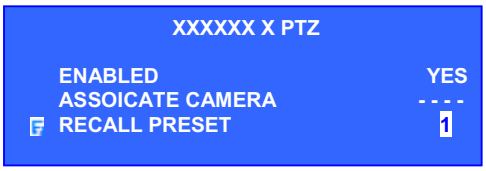
Step 1: In the action menu, select **[PTZ]** option and press "**Enter**" Enter button to enter the PTZ action setting menu.



Step 2: Select **[ENABLED]** option and use "**Left**" or "**Right**" button to enable (i.e. set the value to **[YES]**) PTZ action.

Step 3: Select **[ASSOCAITE CAMERA]** option and press "**Enter**" Enter button to enter the PTZ action setting menu. Use the "**Left**" 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.

Event Action



Step 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.

Step 5: You can press "**Live**" button to exit OSD menu or press "**Back**" button to enter action menu again.

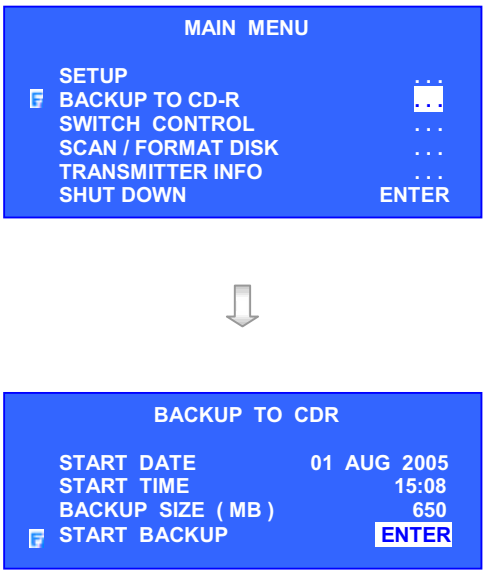
Event Action

E. Backup to CD-R

***Tele*Eye RX** transmitter supports backup function in a CD-R and provides maximum backup storage size of 650MB. The CD-R will be auto run with the portable player software after inserted into PC.

Note that recommended physical size of CD-R should be 120mm / 5.25"

Backup to CD-R Setup Procedure

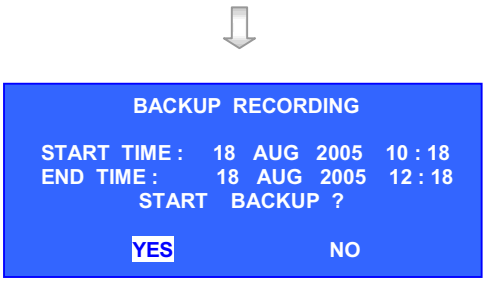


Step 1: Press "**Menu**" button, select **[BACKUP TO CD-R]** option and press "**Enter**" button to enter backup to CD-R sub menu.

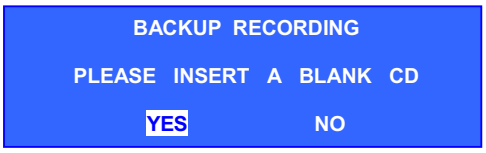
Step 2: Setup the **[START DATE], [START TIME]** and **[BACKUP SIZE]** and the transmitter will calculate the **end time** automatically which depends on backup size and number of camera recorded from the start time.

Step 3: Select the above options and press "**Enter**" button. Use "**Up**" , "**Down**" , "**Left**" **and** "**Right**" buttons to set the date, time and size.

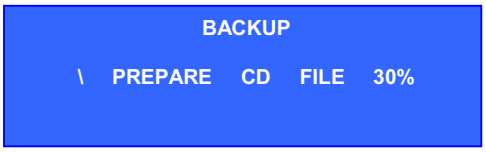
Backup to CD-R



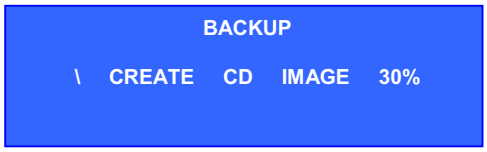
Step 4: Select **[START BACKUP]** option and press "**Enter**" Enter button to show **[BACKUP RECORDING]** message board and it shows user about the **end time**. Select **[YES]** option and press "**Enter**" Enter button to start backup function.



Step 5: During the backup preparation, the transmitter will request you to insert a **blank** CD. Insert a blank CD and press "**Enter**" Enter button in **[YES]** option to start the backup process.



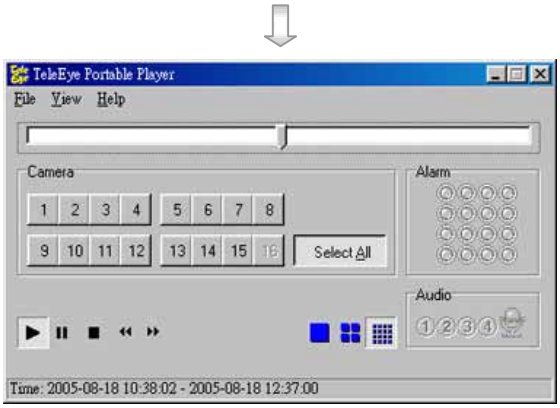
The transmitter prepares the backup CD file



It creates CD Image for burning CD

Step 6: After finishing the backup to CD function, press "**Enter**" Enter button to exit and the CD will be ejected.

Backup to CD-R



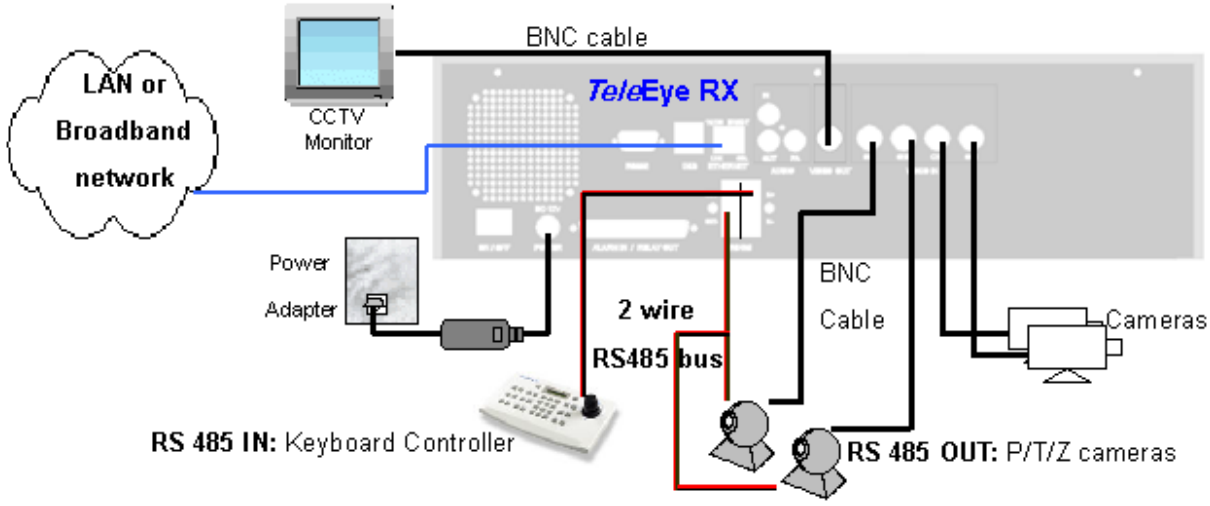
Step 7: Insert the CD to PC with window OS and the Portable Player software will pop up automatically. Press "**Play**" button for playback in the CD.

Note that if the Portable Player software does not pop up automatically, please uses the mouse to double click the CD-ROM drive in your PC.

Backup to CD-R

F. Connection with PTZ cameras

As ***Tele*Eye RX** transmitter built with a RS485 port IN and OUT, 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

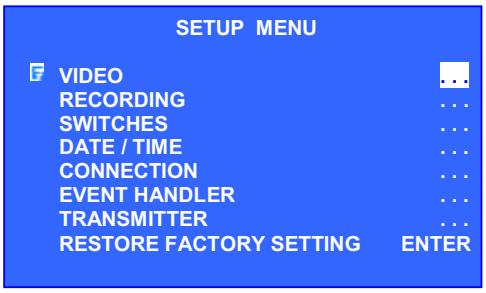
For installation of CCTV monitor, cameras, network setting and connection, please refer to P.66 of the User Guide.

Step 1: Connect the P/T/Z cameras to the RS 485 OUT port in parallel at the ***Tele*Eye RX** rear panel. Connect the P/T/Z cameras to video input port according to each P/T/Z camera ID.
Note that all P/T/Z cameras should be the same model.

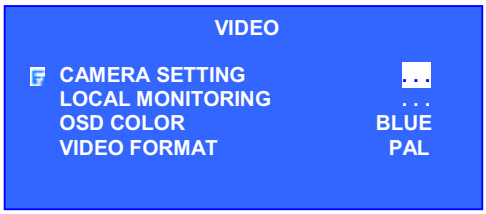
Step 2: Connect the keyboard controller to the RS 485 IN port at the ***Tele*Eye RX** rear panel. For keyboard controller setup, please refer to the keyboard controller manual.

Step 3: Configure P/T/Z cameras driver and setting through OSD menu by CCTV monitor.

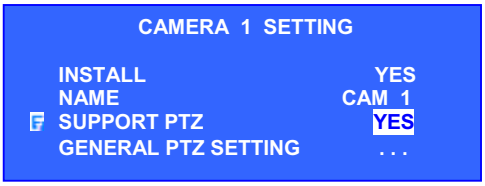
Configure P/T/Z cameras driver and setting as follow:



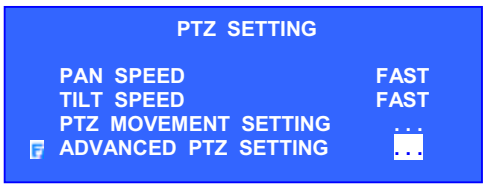
Step 4: Press "**Menu**" button, select **[SETUP]** option and press "**Enter**" Enter button to enter **[SETUP]** sub menu. Select **[VIDEO]** option and press "**Enter**" Enter button.



Step 5: 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.



Step 6: Select **[SUPPORT PTZ]** option and use "**Left**" or "**Right**" button to choose **[YES]** option. Select **[GENERAL PTZ SETTING]** option and press "**Enter**" Enter button to set the PTZ feature.



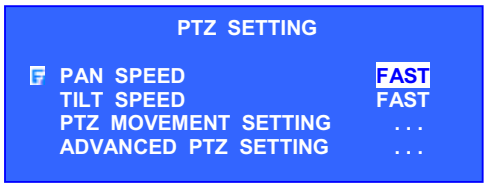
Step 7: Select **[ADVANCED PTZ SETTING]** option and press "**Enter**" Enter button to configure P/T/Z cameras driver and bit rate.

Connection with PTZ cameras

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

Step 8: 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.

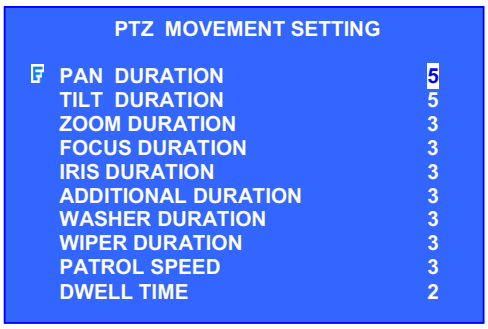
Step 9: Select **[BIT RATE]** option and use "**Left**" or "**Right**" button to set bit rate corresponding to your P/T/Z cameras. Press **"Back"** Back button to go to **[PTZ SETTING]** menu



Step 10: Select **[PAN SPEED]** and **[TILT SPEED]** options and use "**Left**" or "**Right**" button to change the pan (**horizontal direction**) and tilt (**vertical direction**) speed of the PTZ camera.

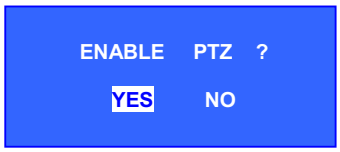
Step 11: Select **[PTZ MOVEMENT]** option and press "**Enter**" Enter button to change PTZ movement timing setting

Connection with PTZ cameras



Step 12: User can select different movement direction duration according to whether the PTZ camera support those functions.

Step 13: Press "**Back**" Back button for several time to exit main menu. Use "**Camera Control**" buttons (as below) to select the PTZ camera.



Step 14: Press "**Live**" button to show the PTZ Camera Enable menu.

	Tilt Up
	Tilt Down
	Pan Left
	Pan Right
Enter	Zoom In
Back	Zoom Out

Step 15: Select **[YES]** option and press "**Enter**" Enter button to enable PTZ function and the **PTZ enable icon** shown at the corresponding PTZ camera in CCTV monitor.

Step 16: Press "**Live**" button to enter the PTZ option menu for advance control and disable PTZ camera.

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

Connection with PTZ cameras

APPENDIX A

***sure*LINK TECHNOLOGY**

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

***sure*LINK** is a group of additional functions, services and software provided for the transmitter so as to make it to 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 transmitter to make ***sure*LINK** available. This section will help you to configure and use it.

By using of ***sure*LINK** technology, the powerful ***Tele*Eye RX** can work on broadband Internet economically, a cost effective and convenient remote live video monitoring anytime and anywhere.

- ***sure*LINK Address**
  You can apply for a ***sure*LINK** address (domain name), such as *www.hkpublic.teleeye.teleeye.net,* for your transmitter. 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 transmitter. Since the ***sure*LINK** 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 ***sure*LINK** address can also be used in transmitter web browsing to see live video on standard web browser (e.g. IE, Netscape).

- Refreshing Rate
  When ***sure*LINK** address feature is enabled, the transmitter will periodically update its current IP address to our database to ensure that the ***sure*LINK** address is always forwarded to a valid IP. You can set this update period through OSD menu.

- DNS Services:
  Assigned when the transmitter can directly access the Internet without the help of ***Tele*Eye** Proxy Server

** : This function will be supported in ***Tele*Eye RX** transmitter version 2.00.00 or later

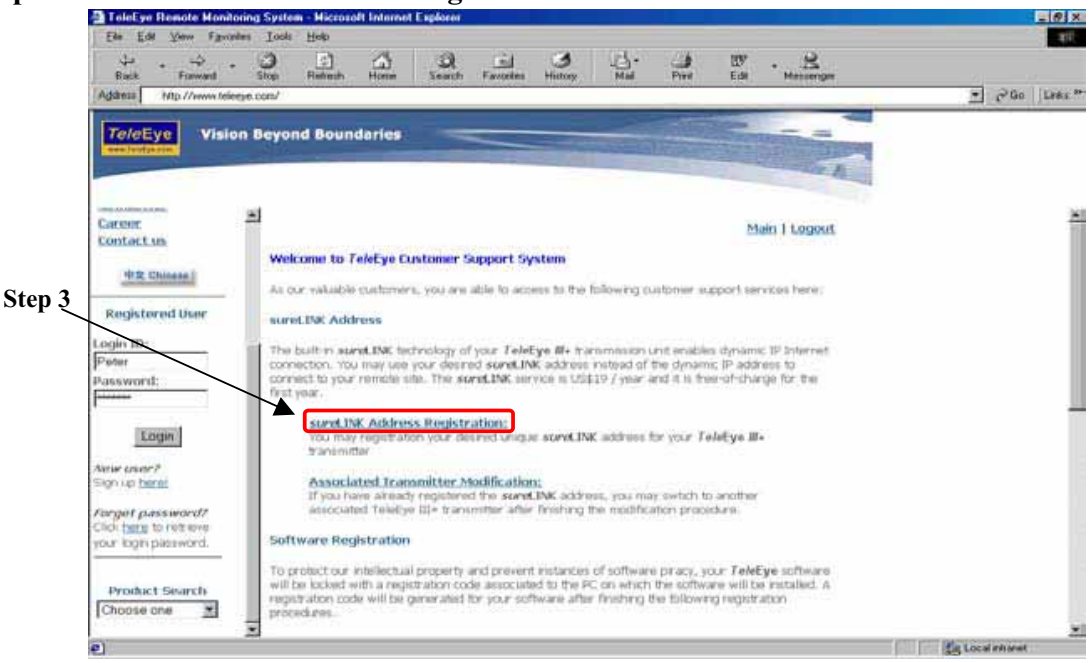
How to Apply for *sure*LINK Address

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

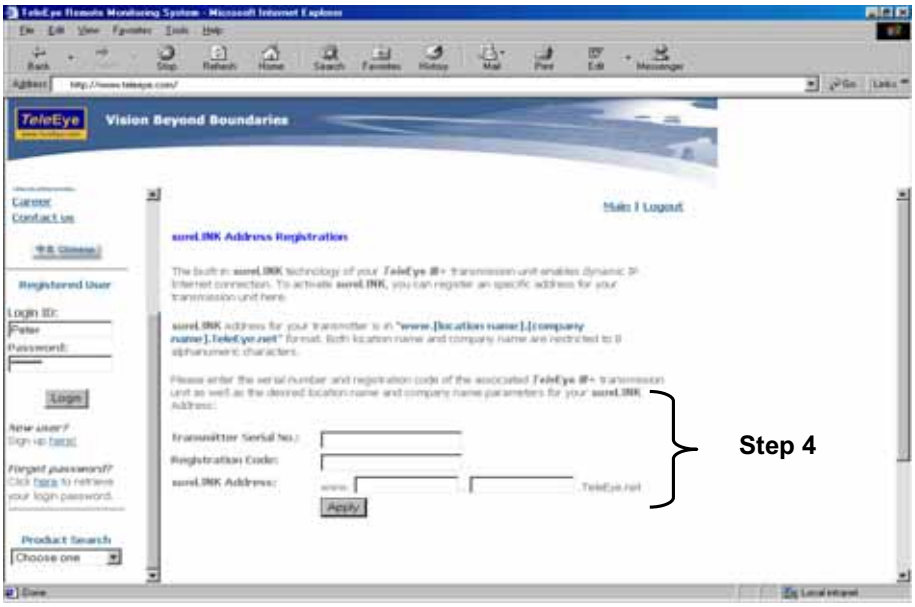
Step 1: Sign up to create your user account

Step 2: Login the page using your registered name and password.

Step 3: Click ***sure*LINK Address Registration** button



*sure*LINK Technology



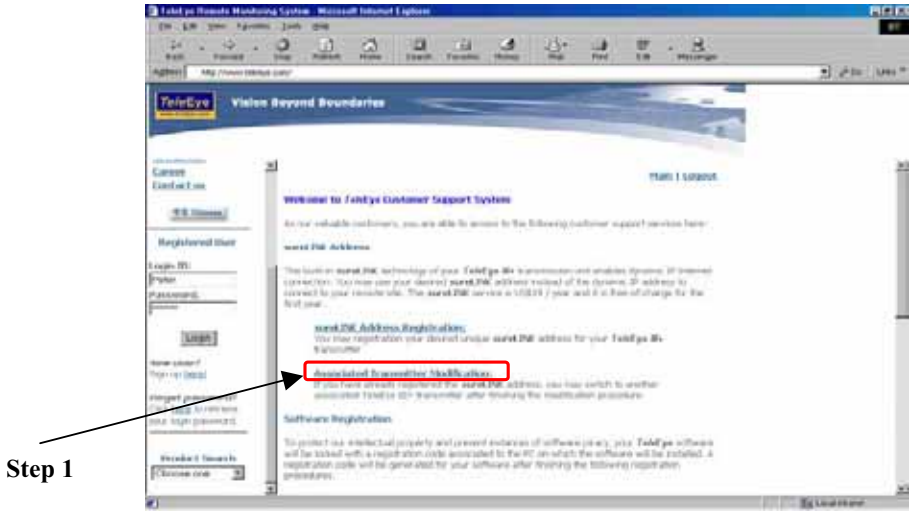
Step 4: Enter a ***sure*LINK** address (**Domain Name)**, your **Transmitter Serial No.** and **Registration Code** in the fields provided respectively. Then click the **Apply** button. The process is then completed.

After we received your domain name registration for your transmitter, your application will be processed. Normally, it requires about 2 to 3 working days to activate ***sure*LINK** for your transmitter. You will receive a notification mail when your ***sure*LINK** service is ready.

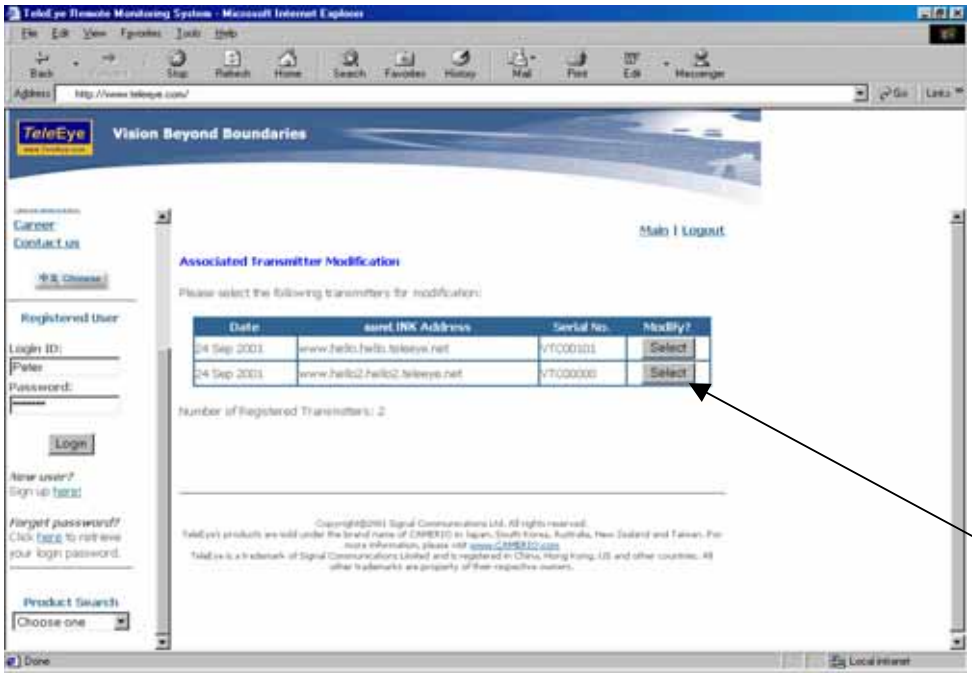
Transmitter Modification

Since the ***sure*LINK** (Domain name) address corresponds to a single transmitter, if you change from one transmitter 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 below:

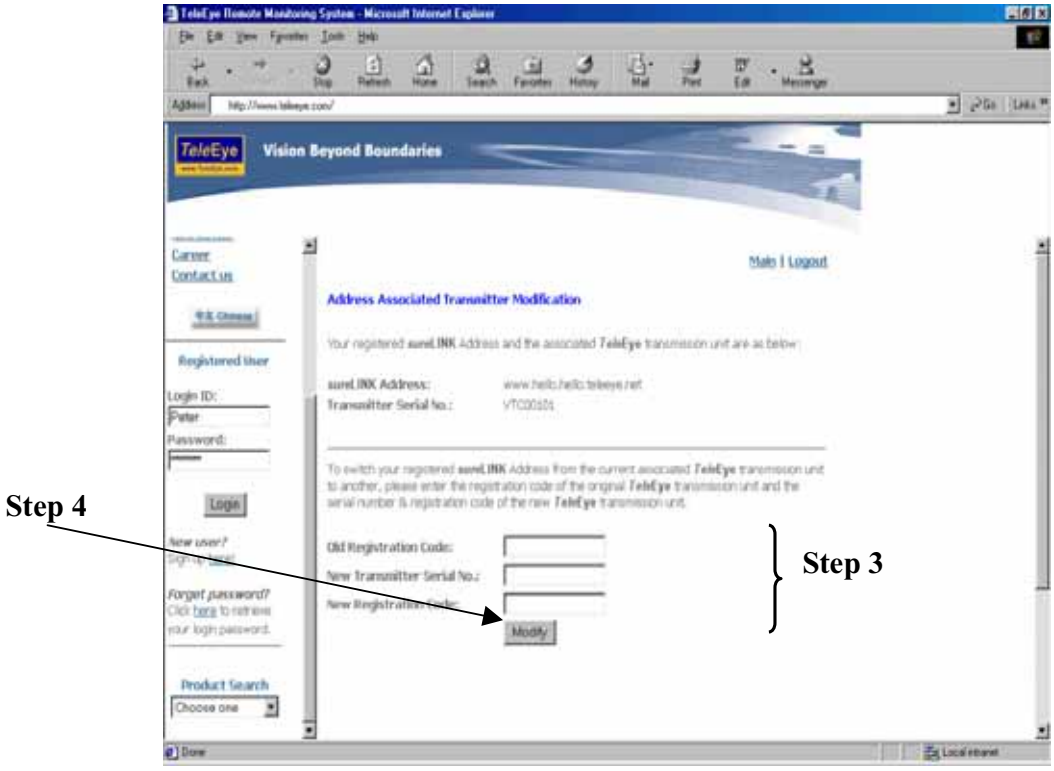
Step 1: Transmitter Modification > **Select** a ***sure*LINK** address (**Domain Name**) you want to modify



*sure*LINK Technology



Step 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.



If the above procedure is completed successfully, the ***sure*LINK** will be effective immediately.

*sure*LINK Technology

APPENDIX **B**

GENERAL TERMS DISCUSSION

Before you start to configure the transmitter, you may need to know some of the terms and information used in the transmitter.

- **Registration Checking**
  Users need to do the registration in the ***Tele*Eye Reception Software WX-30** for authorization before the transmitter can be used when such feature is enabled in the ***Tele*Eye RX**. This option can be applied to improve the security protection for the organization when higher security level is required. If the transmitter 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 ***Tele*Eye Reception Software WX-30**.

- **Site Monitoring Method**

  There are mainly four methods to link up with the transmitter 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 transmitter 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 transmitter 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 C

SPECIFICATIONS

VIDEO INPUT	
STANDARD	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second composite video, 1 V_{p-p}, BNC
NO. OF CHANNELS	4
VIDEO OUTPUT	
STANDARD	(P): PAL/CCIR, 625 lines, 25 frames per second (N): NTSC/EIA, 525 lines, 30 frames per second composite video, 1 V_{p-p}, BNC
NO. OF CHANNELS	1
DISPLAY SCREEN	full screen, quad screen
DISPLAY FRAME RATE	25/30fps D1, 100/120fps CIF
STANDALONE OPERATION	
TYPE	System configuration, operation, audit trail
AUDIO **	
INPUT	1 channel, RCA, line level Input impedance : 30k, frequency : 200-3500Hz
OUTPUT	PA output : 1 channel, RCA, line level; Output impedance : 600ohm, frequency : 200-3500Hz Local input : 1 channel, RCA, line level; Output impedance : 600ohm, frequency : 200-3500Hz
COMMUNICATION	
NETWORK	RJ-45, 10/100Base-T Ethernet (auto-sensing)
CONCURRENT USERS	6
***sure*LINK**	support Internet connection assigned with dynamic IP address
MODEM PORT	RS-232C: DB-9 male, asynchronous, 8 data bits, 1 stop bit, no parity, 9.6k-115.2kbps, hardware flow control
TELEMETRY CONTROL	Keyboard port: RS-422/485: 2-way terminal, asynchronous, 8 data bits, 1 stop bit, no parity, 2.4-19.2kbps Camera port: RS-422/485: 2-way terminal, asynchronous, 8 data bits, 1 stop bit, no parity, 2.4-19.2kbps
RECORDING	
MODE	manual, programmable, event-driven
HD TYPE	IDE interface, removable
MAX. RECORDING RATE#	(P) : 25fps at 720 X 576 pixels; 100fps at 360 X 288 pixels (N) : 30fps at 720 X 480 pixels; 120fps at 360 X 240 pixels
EVENT TYPE	
EVENT HANDLING	external alarm, tamper, video motion detection, video loss, disk full, power interruption, system fail
ACTION TYPE	buzzer, dial back, recording, relay control, email notification **
EXTERNAL INPUTS	4x NC/NO

Specification

RELAY SWITCH	
NO. OF CHANNELS	4
MAX. RATING	24V AC, 1000mA
POWER	
VOLTAGE	12V DC
MAX. RATING	50W
OPERATING ENVIRONMENT	
AMBIENT TEMPERATURE	5°C – 45°C
RELATIVE HUMIDITY	<85% (no condensation)
MECHANICAL DESIGN	
DIMENSION	403x370x125 (mmxmmxmm)
WEIGHT	3.5kg

** : This function will be supported in the ***Tele*Eye RX** transmitter version 2.00.00 or later

This is the END of the User Guide

Specification