*Tele*Eye

Reception Software WX-30

User Manual

TeleEye
www.TeleEye.com

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Version 1.11

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Table of Contents

SECTION 14

SECTION 15

Section 1

Introduction

1.1 Introduction

Thanks for using ***Tele*Eye Reception Software WX-30**. This software is a Windows 2000/XP application software. It is designed to implement for remote monitoring and controlling ***Tele*Eye RX** video transmitter. The compressed data are decoded and displayed through the PC monitor. User can select the desirable video source, resolution and quality from the graphical user interface.

1.2 System Requirement

- Computer : Personal Computer
- Processor : Intel Pentium IV 2G or above
- Memory : 256MB RAM or above
- Hard Disk : Minimum 41MB hard disk space required
- Drive : CD-ROM
- Display : 800x600, high-colour
- Sound : Sound card is required
- Ethernet Card : 10/100Mbps or above
- Port : Serial Port
- Operating System : Microsoft Windows 2000 / XP

Windows XP/2000 users must have "Computer Administrator" permissions and Windows Service Pack 2 or later.

1.3 Manual Convention

{ } : Represent Windows panel name

[ ] : Represent Windows icon or button name

 : Special note for user

 : Refers to other section

 : Next step

** : Special Remark

Fig 1.1.1a : All figure number is located on the bottom under the figure.

 : Key to press or special emphasis place on a figure.

Section 2

Getting Started With

2.1 Installing *Tele*Eye Reception Software WX-30

***Tele*Eye Reception Software WX-30** software CD installation procedure is easy to do.

Installation Procedure :

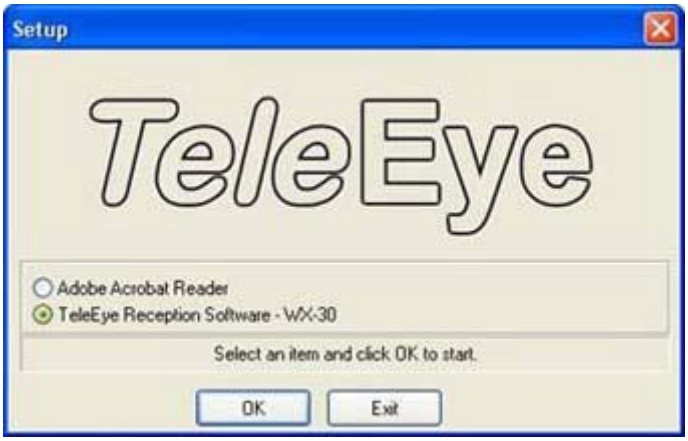


Fig 2.1a

Step 1 : Insert the software CD into the CD-ROM. The CD can auto run. **{Setup}** panel pop up. Choose **[TeleEye Reception Software – WX-30]** option and then click **[OK]** button.

☞ If the software CD cannot auto run, please choose the corresponding CD-ROM to run the CD.

⇩

Fig 2.1b

⇩

Step 2 : Click **[Next]** button on the **{TeleEye WX-30 Setup}** panel

Installing ***Tele*Eye Reception Software WX-30**

Fig 2.1c

Step 3 In **{Installing Microsoft(R) DirectX(R)}** pop up window, select **[I accept the agreement]** and click **[Next]** to install DirectX 9.0c(April 2007 version). Follow the instruction to complete DirectX installation.

**DirectX installation must be completed before Step 4.

Fig 2.1d

Step 4 : Click **[Yes]** to accept the software license agreement, otherwise the software cannot be installed.

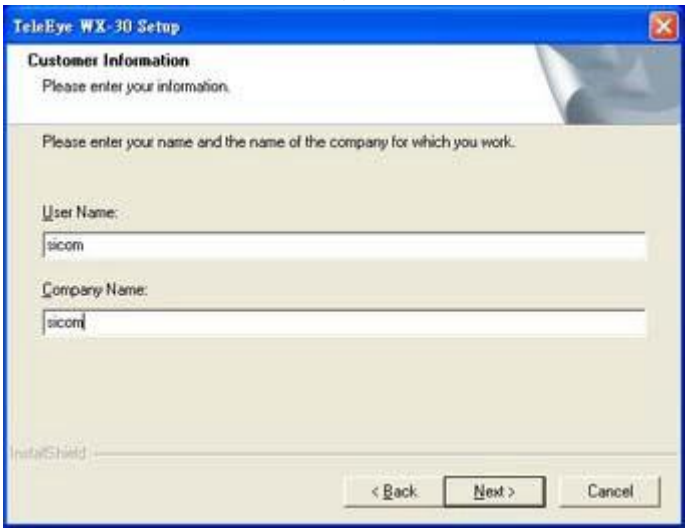


Fig 2.1e

Step 5 : Fill in **[User Name]** and **[Company Name]**. Click **[Next]** button to continue the installation

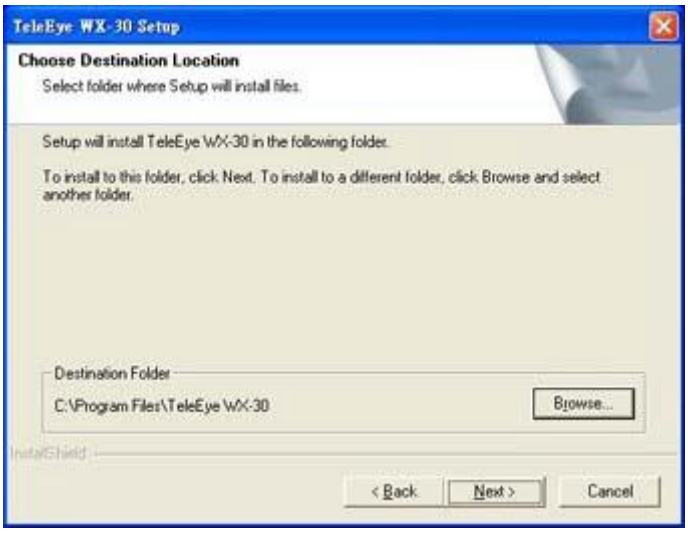


Fig 2.1f

Step 6 : Choose the destination folder to store the software. Default path is **C:\Program File\TeleEye\ WX-30**. User may click **[Browse]** button to select another path to store the software. After choosing the destination folder path, click **[Next]** to the next step.

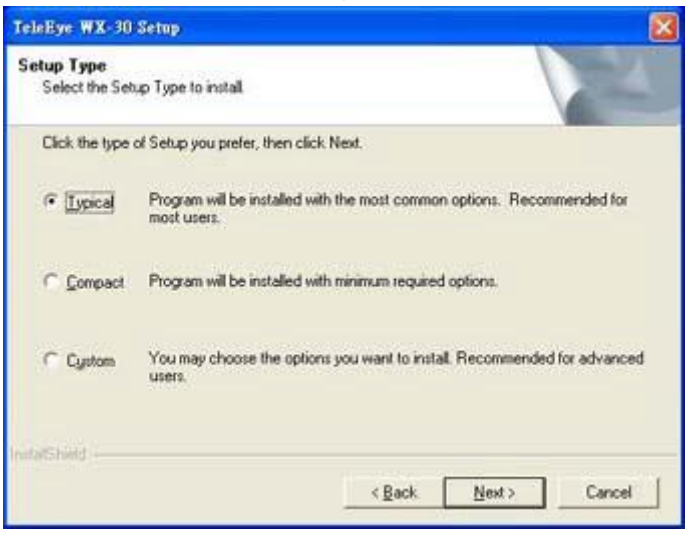


Fig 2.1g

Step 7 : Choose the type of setup. Choosing **[Typical]**, **[Compact]**, **[Custom]** option for installation. **[Custom]** option allows user to install which part of the software manually. Other options will install the software into PC automatically. **[Typical]** option is highly recommended. Click **[Next]** to continue.

Fig 2.1h

Step 8 : Fill in **[Program Folders]** for the folder name displayed on the **[Start Up]** menu of Windows. Default name is *Tele***Eye**.

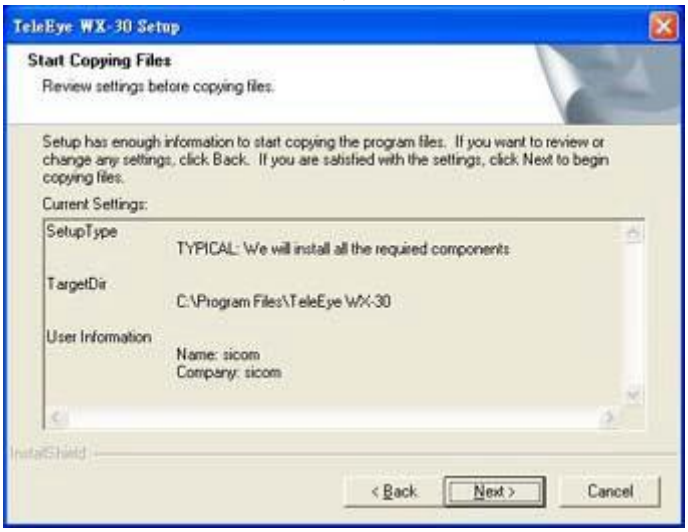


Fig 2.1i

Step 9 : **{TeleEye WX-30 Setup}** panel shows setup type, destination folder and user information for user to check whether their input options correct or not. If there is no correction, click **[Next]]** button to install the software.

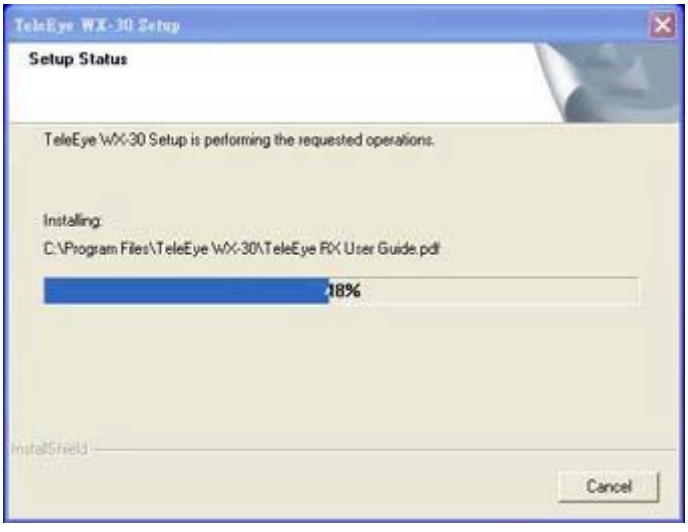


Fig 2.1j

Step 10 : Installation is in progress until 100%

Fig 2.1k

Step 11 : Installation is successful. It is highly recommended user to restart the PC before using the software. Click **[Finish]** to complete the installation process.

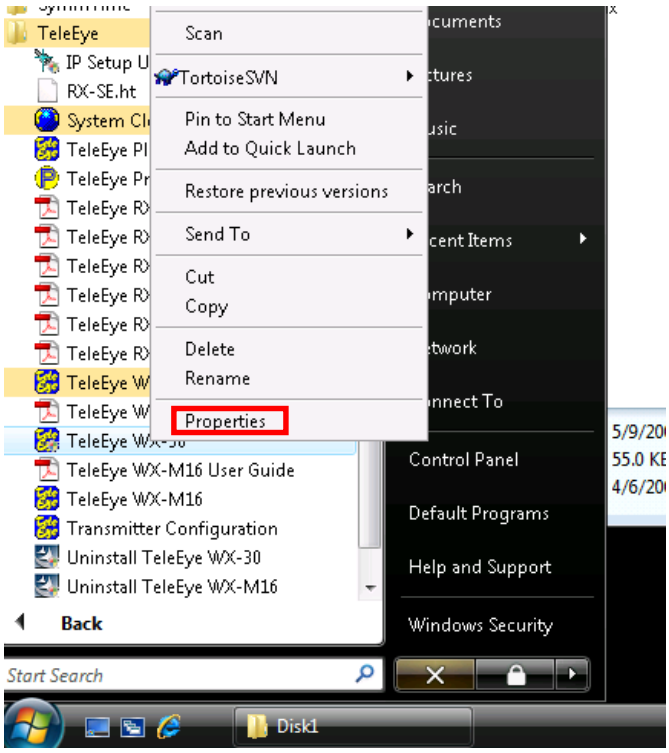


Fig 2.1l

Step 12: (Vista) For Windows Vista, go to **[Start]** **->[All program]** **->[TeleEye]** Right click **[TeleEye WX-30]** and click **[Properties]**.

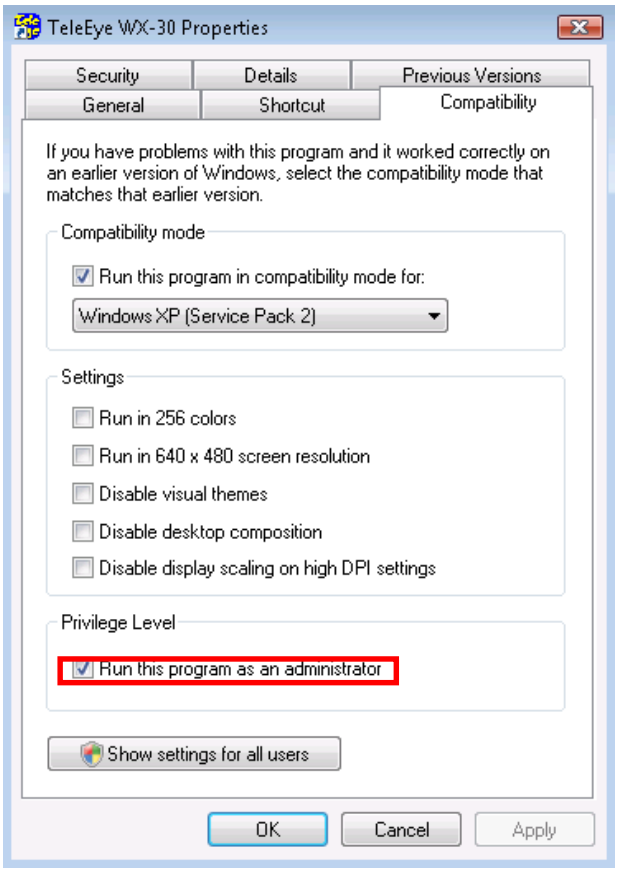


Fig 2.1m

Step 13: (Vista) In **[Compatibility]** Option, select **[Run this program as an administrator]** and click **[OK]** button.

2.2 Multi – Language Setting

*Tele*Eye RX transmitter supports Multi-language. The default setting of language is English.

Language Setting Procedure :

Step 1 : Click **[Help]** → **[Language]** option on the **{Main Panel}**

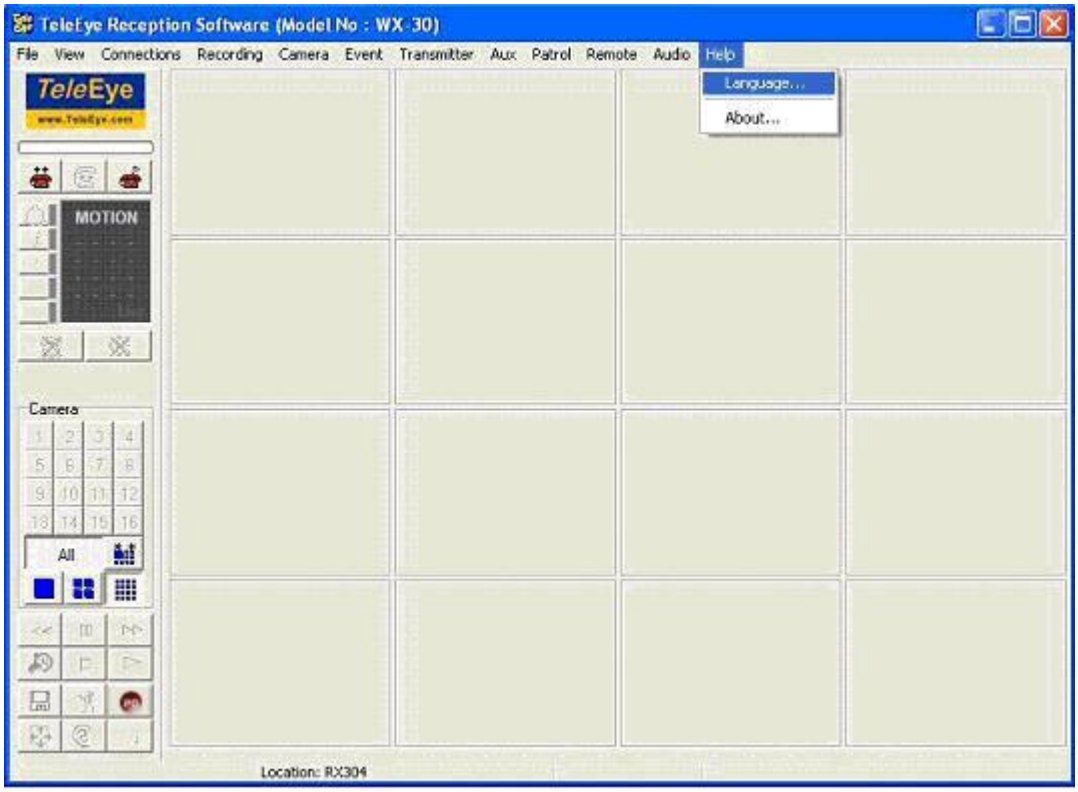


Fig 2.2a

Fig 2.3b

Step 2 : **{Select Language}** panel pop up. Choose language in the combo box button **[Language]**

2.3 Registering *Tele*Eye RX Video Transmitter

Registering *Tele*Eye RX Video Transmitter

*Tele*Eye RX transmitter supports registration checking function in order to prevent illegal access from other PC. By default, registration checking function is disabled, but it is **highly recommended** to do the transmitter registration after the installation of *Tele*Eye Reception Software WX-30.

Transmitter Registration Procedure :

Step 1 : Click **[Transmitter]** → **[Registration]** option on the **{Main Panel}**

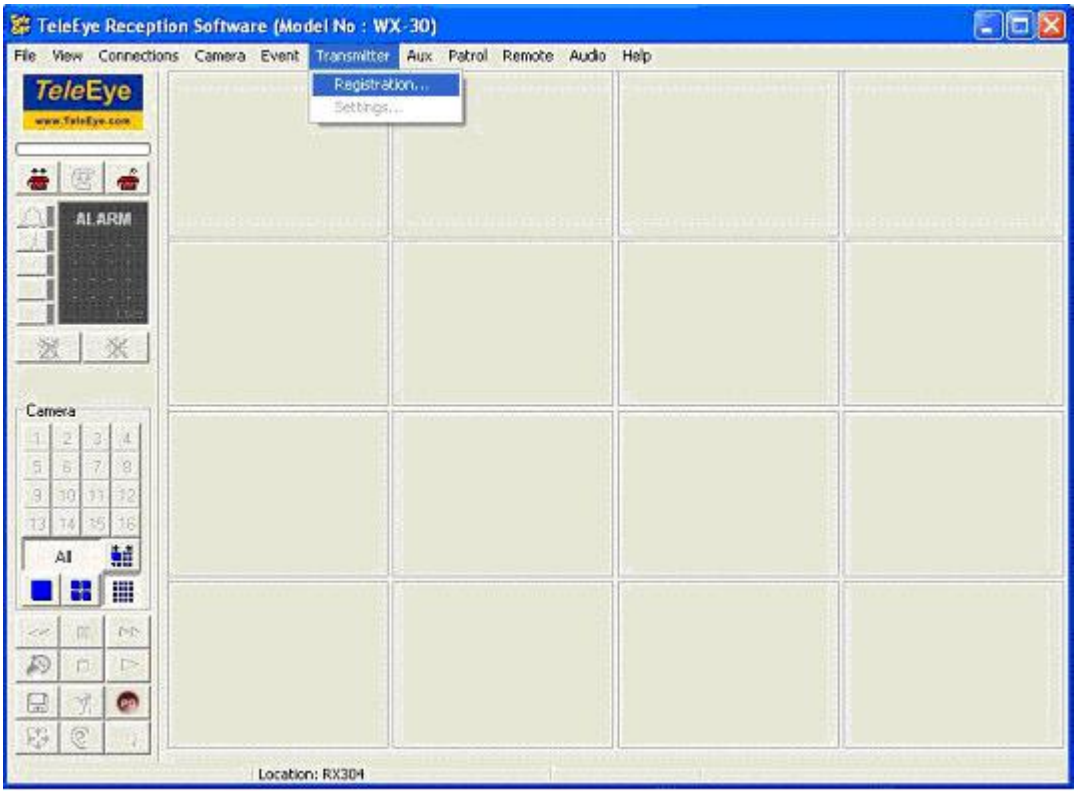


Fig 2.3a

Fig 2.3b

Step 2 : **{Registration}** panel pop up

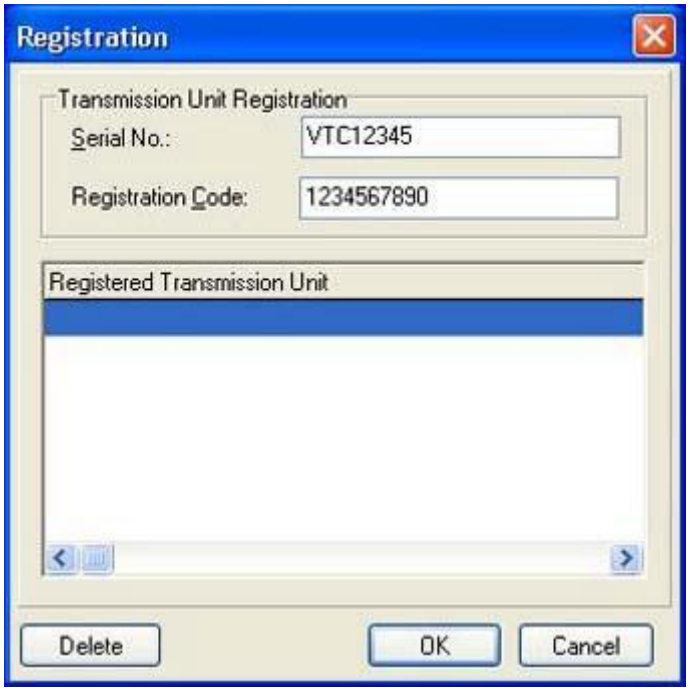


Fig 2.3c

Step 3 : Fill in **[Serial No.]** and **[Registration Code]** as example shown on **Fig 2.2c**. Click **[OK]** button to register the *Tele***Eye RX** transmitter.

Step 4 : **[Registration Completed!]** message pop up. Click **[OK]** to complete and exit the panel.

Fig 2.2d

☞ During the registration process, user needs to fill in the transmitter's **serial number** and **registration code** which are included in the transmitter package.

Section 3

Connect / Disconnect *Tele*Eye RX Transmitter

3.1 Connect *Tele*Eye RX

After registering *Tele*Eye RX transmitter in *Tele*Eye Reception Software WX-30, user needs to setup the network configuration of the transmitter for the first time connecting to the PC.

For *Tele*Eye RX transmitter network configuration setup, please refer to *Tele*Eye RX User Guide section 3 : Basic Installation for Local and Remote Monitoring.

Location

This is a naming input which record *Tele*Eye RX transmitter location, so no special effect take place for this input.

Connection Using

*Tele*Eye RX transmitter supports multiple connection stream. The usage of different connection stream option is

TCP/IP LAN : Local area network

TCP/IP Broadband : Internet broadband network

TCP/IP Narrowband : PSTN / ISDN, GPRS, or other mobile networks

Modem Driver : Modem connection with known modem driver

Direct to Com X : Leased line for null modem connection

General Modem : Modem connection with unknown modem driver

Phone / IP

Connect *Tele*Eye RX

For TCP/IP LAN, TCP/IP broadband and TCP/IP narrowband connection stream, **IP** of the transmitter is necessary to input in this blank. For modem connection, **phone number** of the transmitter is needed to input here.

Properties

Allow user to change the connection bit rate and TCP/IP port number.

Password

There are two security mode – **Basic security mode** and **advanced security mode**. (Advanced security mode is for RX 360 series ONLY)

The transmitter supports 2 types of account, administrator account and user account, for **basic security mode**. User needs to input the correct **administrator password** or **user password** in order to connect to the transmitter with different privilege.

☞ Default **administrator password** is **000000**, default **user password** is **123456**

For details of changing the password, please refer to P. 26 of Section 4.2 : Change Password & Registration Checking.

The transmitter supports 20 definable users for **advanced security mode**, including 18 normal user accounts and 2 special defined user accounts.('ADMINISTRATOR' and 'DEFAULT LOCAL USER')

☞ Default **local administrator password** is **111111**, default **remote administrator password** is **000000**.

For details of security mode, please refer to Section 15.3 on P. 209: Security mode.

Dialing Prefix

For modem connection only. This is phone number prefix of the transmitter.

Phone Book

Phone book is used for recording the IP or phone number of *Tele*Eye RX transmitter at different surveillance area. It stores the data items as above : location, IP / Phone No., password, etc.

New : Add a new *Tele*Eye RX transmitter phone book items

Delete : Delete the selected *Tele*Eye RX transmitter phone book items

Properties : Change the selected *Tele*Eye RX transmitter phone book item

Reference Code

This is a quick reference code for different phone book items.

Add Phone Book Procedure :

Step 1 : Press **[Connect]**  icon to pop up **{Connect}** panel as **Fig 3.1a**

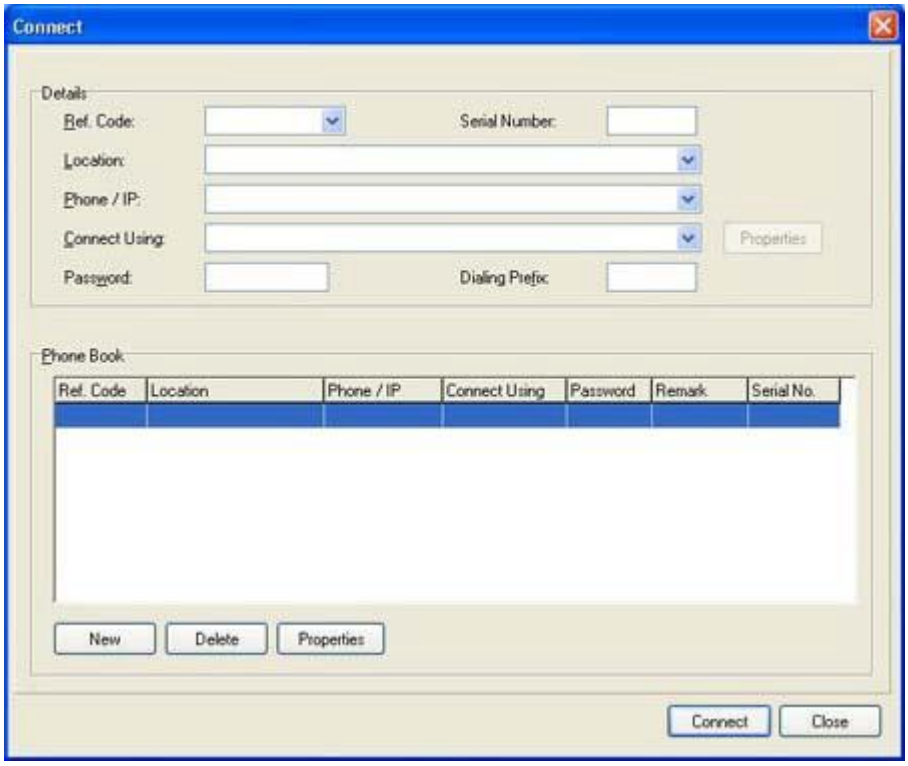


Fig 3.1a

Connect *Tele*Eye RX

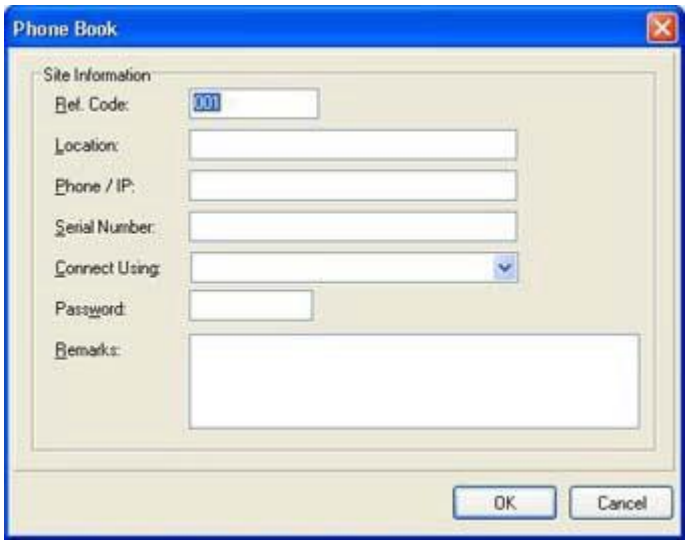


Fig 3.1b

Step 2 : Click **[New]** button on **Fig 3.1a** to pop up **{Phone Book}** panel to add a new item.

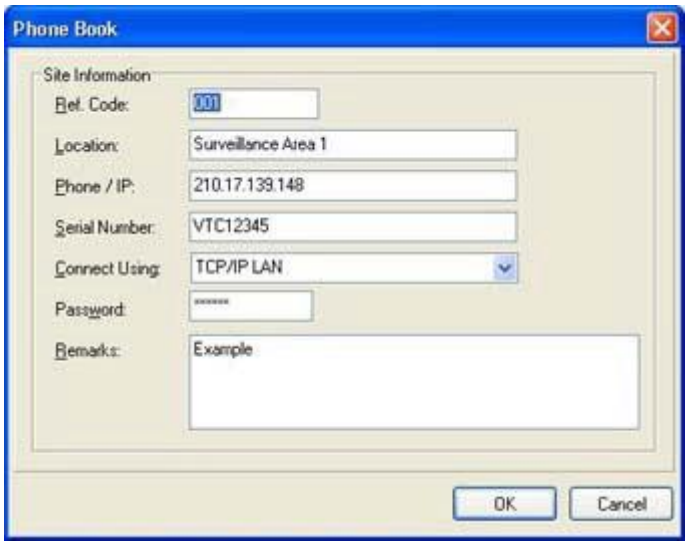


Fig 3.1c

Step 3 : Fill in the information for location, IP, password, etc. Click **[OK]** button to complete adding new item.

Fig 3.1d

Step 4 : A new item has been added in the phone book.

Connection Procedure :

Fig 3.1e

Step 1 : Choose the suitable phone book item of *Tele***Eye RX** transmitter as **Fig 3.1e**. Click **[Connect]** button to connect to the transmitter.

Fig 3.1f

Step 2 : After clicking the **[Connect]** button a few second later, it changes to the main panel.

3.2 Auto Redial

If ***Tele*Eye Reception Software WX-30** loses connection to the ***Tele*Eye RX** transmitter **abnormally**, auto redial allows the software to reconnect to the transmitter automatically and infinitely until successful connection established between the PC and the transmitter.

☞ Auto redial will **NOT** function if user disconnects the transmitter manually or auto disconnect function activated.

Auto Redial Setup Procedure :

Step 1 : Click **[Connection]** → **[Auto Redial]** option on the main panel in order to enable auto redial function.

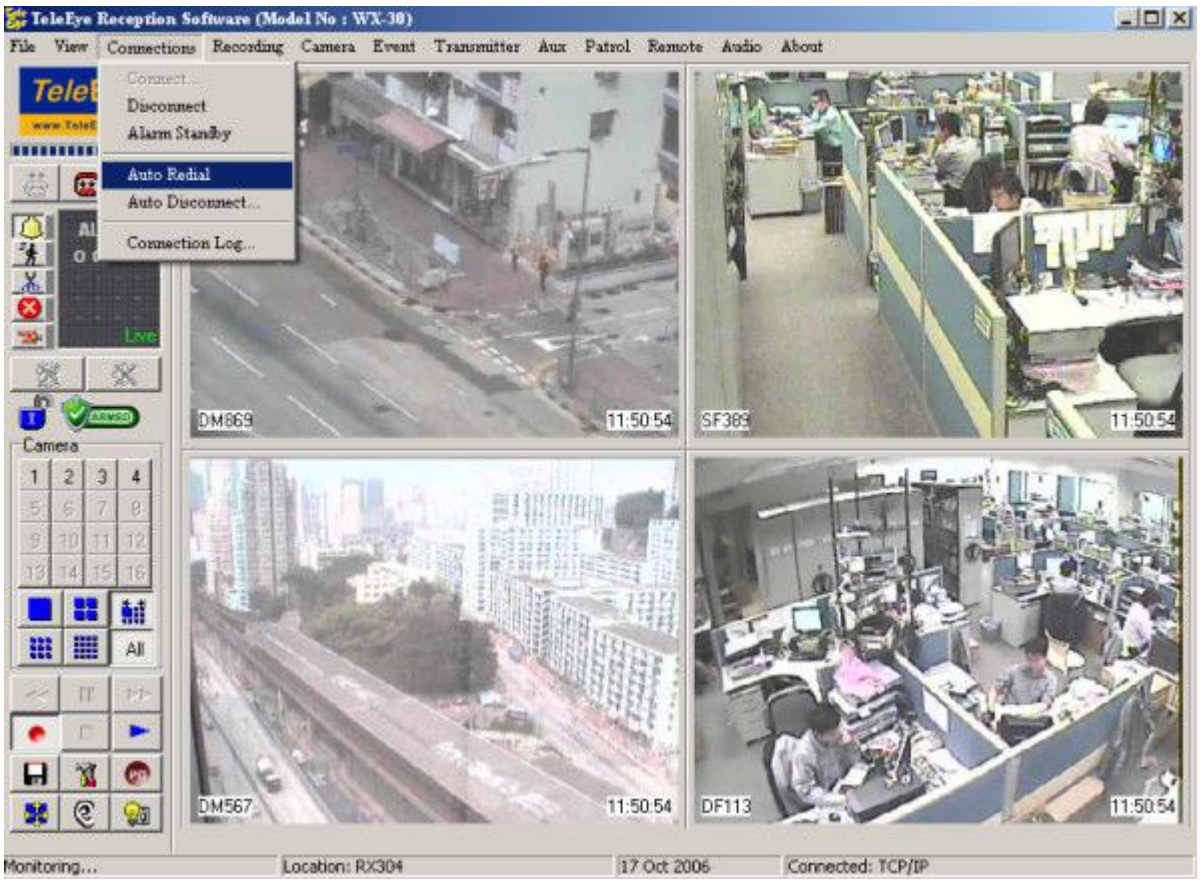


Fig 3.2a

Auto Redial

3.3 Disconnect Video Transmitter

If user needs to disconnect the transmitter, it is easy to do.

Disconnect Transmitter Procedure :

Fig 3.3a

Step 1 : On the main panel, click **[Disconnect]**  icon to disconnect the transmitter.

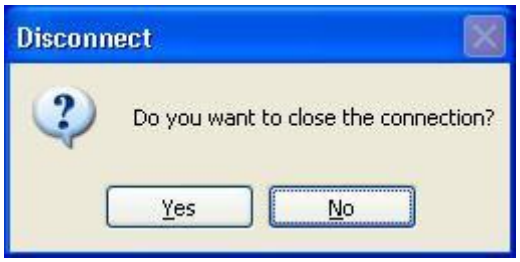


Fig 3.3b

Step 2 : **{Disconnect}** panel pop up. Click **[Yes]** button to close the connection.

Fig 3.3c

Step 3 : If there is any event triggered before **without clear**, **{Clear Alarm}** panel pop up. User needs to input the alarm password in order to clear the event first, and then disconnect it. After inputting the password, click **[OK]** to disconnect it.

3.4 Auto Disconnect

Auto disconnect allows user to schedule for disconnecting the transmitter.

None

Disable auto disconnect function

All Call

For all types of connection, disconnect the transmitter after the specific time automatically. The minimum auto disconnect time is 1 minute.

IDD Call

Only the IDD call with the input phone number prefix can auto disconnect the transmitter after the specific time.

Auto Disconnect Setup Procedure :

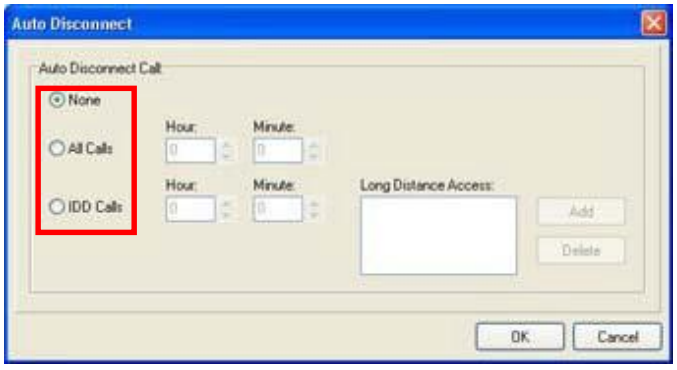


Fig 3.4a

Step 1 : Click **[Connection]** → **[Auto Disconnect]** option on the main panel. **{Auto Disconnect}** panel pop up. Select the auto disconnect type **[None]**, **[All Calls]**, **[IDD Calls]**

Fig 3.4b

Step 2 : Suppose **[IDD Calls]** is selected. Press **[Up / Down]** icon to select **[Hour]** and **[Minute]** to choose auto disconnect time.

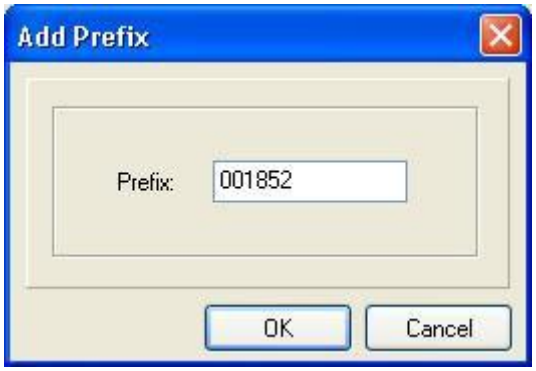


Fig 3.4c

Step 3 : Click **[Add]** button on **{Auto Disconnect}** panel. **{Add Prefix}** panel pop up and input the prefix. Press **[OK]** to save and exit the setting.

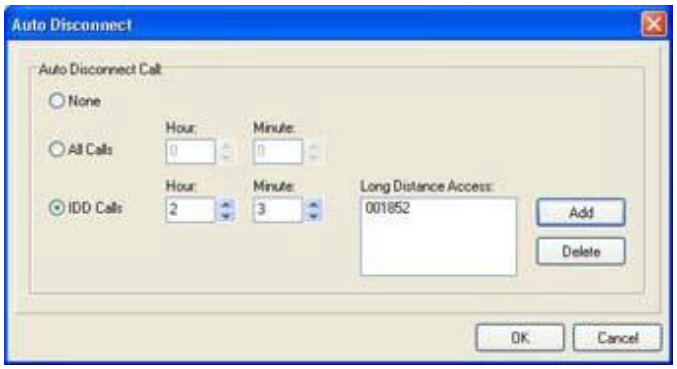


Fig 3.4d

Step 4 : Press **[OK]** to save the setting and exit the panel.

3.5 Connection Log

Connection log shows *Tele*Eye Reception Software WX-30 connection record.

Procedure :

Step 1 : Click **[Connection]** → **[Connection Log]** option on the **{Main Panel}**

Fig 3.5a

Connection Log

Step 2 : **{Connection Log}** panel pop up.

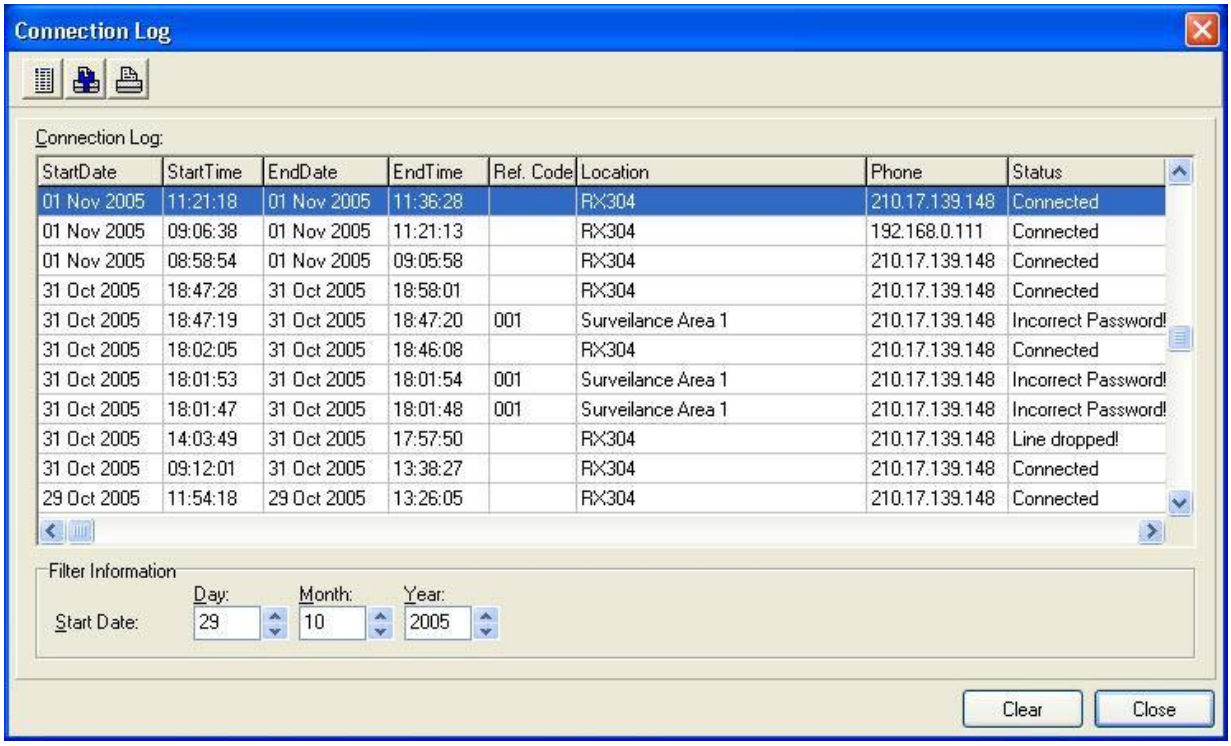


Fig 3.5b

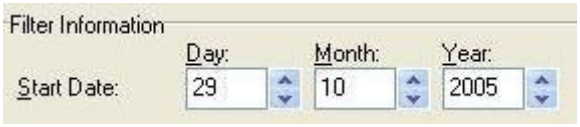


Fig 3.5c

Step 3 : User can select the start date of connection log display.

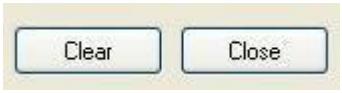


Fig 3.5d

Step 4 : User may clear the event status by pressing **[Clear]** button. Press **[Close]** to close the event status.

Connection Log Column Description :

Start Date

It is the date for starting connection between the PC and the transmitter.

Start Time

It is the time for starting connection between the PC and the transmitter.

End Date

It is the date for disconnecting between the PC and the transmitter.

End Time

It is the time for disconnecting between the PC and the transmitter.

Reference Code

It is the reference code for the transmitter in the phone book.

Location

It is the location of the site in the phone book

Phone

It is the IP or phone number of the transmitter.

Status

It is the connection status between the transmitter and the PC.

- Connected : The transmitter and the PC have been connected
- Line dropped : Disconnection between the PC and transmitter by other network situation, **NOT** user manually disconnected.
- Incorrect password : User input incorrect password to connect to the transmitter lead to connection fail.

Connection Log

Section 4

Transmitter General Setup

Transmitter General Setup Procedure :

Step 1 : Click **[Transmitter Settings]**  icon on the **{Main Panel}**

Fig 4a

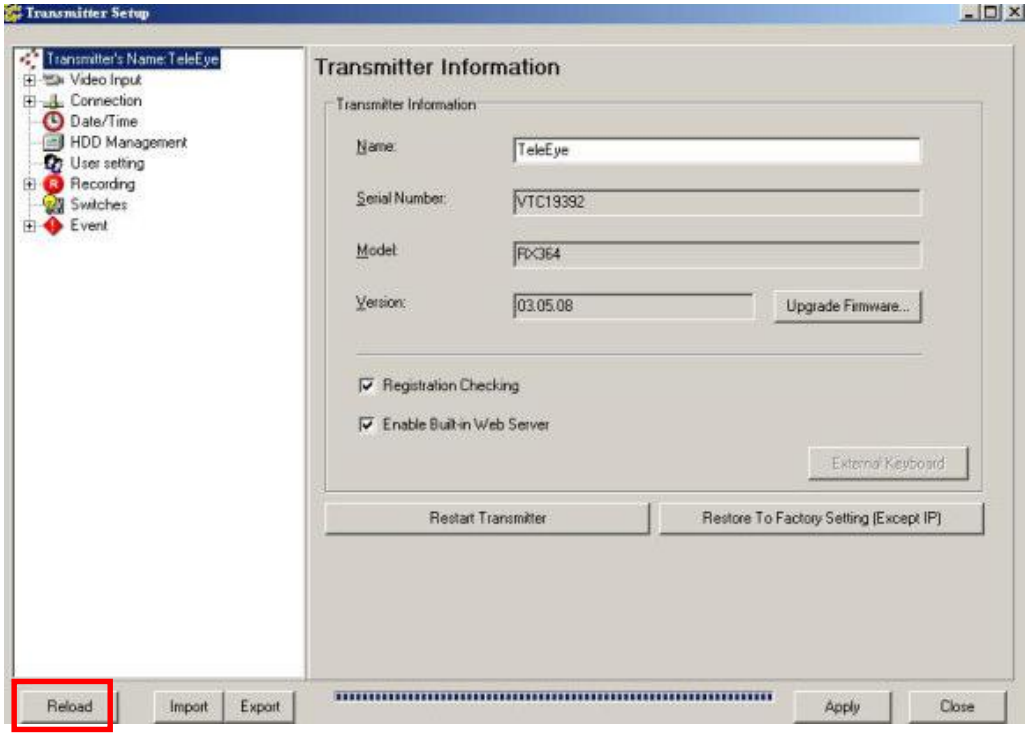
Fig 4b

Step 2 : **{Administrator Password}** panel pop up. Input the password and click **[OK]** button to enter **{Transmitter Setup}** panel.

☞ The default administrator password is **000000**

⇩

Step 3 : **{Transmitter Setup}** panel pop up, so user can do the transmitter setting in this panel.



☞ User can click **[Reload]** button to reload the most update transmitter setting, if

- The information on **{Transmitter Setup}** panel cannot fully display
- Someone has changed the setting through the transmitter OSD menu or other PC such that the information on **{Transmitter Setup}** panel is not updated.

☞ User can click **[Apply]** button to save the current transmitter setting into *Tele***Eye RX** transmitter. Press **[Close]** button to exit the panel.

Transmitter General Setup

4.1 Transmitter Information

Transmitter information shows the basic information of the *Tele*Eye RX video transmitter.

Name

This shows the name of *Tele*Eye RX video transmitter. User can change its name here.

Serial Number

This shows the serial number of *Tele*Eye RX video transmitter.

Model

This shows the model of *Tele*Eye RX video transmitter.

Version

This shows the firmware version of *Tele*Eye RX video transmitter.

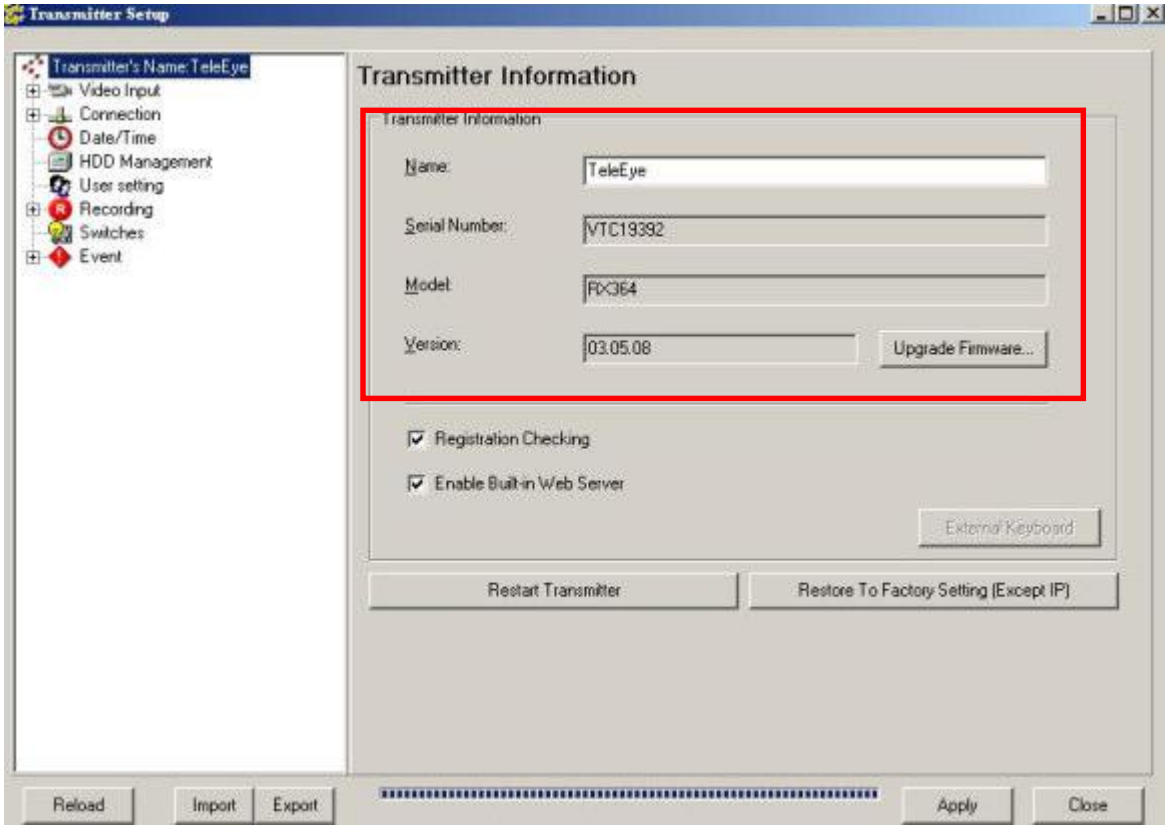


Fig 4.1a

4.2 Change Password(Basic security mode), Upgrade Version, Registration Checking & User account

Change Password, Registration Checking & User Account Management

management(Advanced security mode)

*Tele*Eye RX transmitter provide high level of access security protection. It has administrator and user account privilege to protect normal user to change the transmitter setup illegally. Registration checking prevents the transmitter from illegal access by *Tele*Eye Reception Software WX-30 of other PC.

Administrator Password

It is the administrator account password. Some operations need to enter the administrator password, such as transmitter setup, entering event log and recording. Default administrator password is **000000**.

User Password

It is the user account password, so normal user can connect to the transmitter using this password. Default user password is **123456**.

☞ If user forget the administrator or user password (not default one), please contact us by sending an email to : support@TeleEye.com.

☞ Administrator and user password are saved on each *Tele*Eye RX transmitter, not the PC.

Registration Checking

If user has registered the transmitter, registration checking can be enabled. Registration checking function is disabled at default.

For transmitter registration procedure, please refer to P.8 of Section 2.2 Registering *Tele*Eye RX Video Transmitter.

Change Password Procedure :

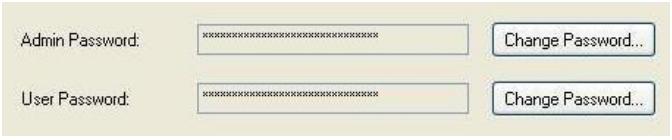


Fig 4.2a

Step 1 : On **{Transmitter Information}** panel, click **[Change Password]** button for administration password or user password change

Fig 4.2b

Step 2 : Enter the old password, new password and confirm the new password again. Click **[OK]** to save the new password and exit the panel. Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

Registration Checking Procedure :

Fig 4.2c

Step 1 : On **{Transmitter Information}** panel, click **[Registration Checking]** checkbox. Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

Upgrade Version Procedure :

Fig 4.2d

Step 1 : On **{Transmitter Information}** panel,click**[Upgrade Firmware]**

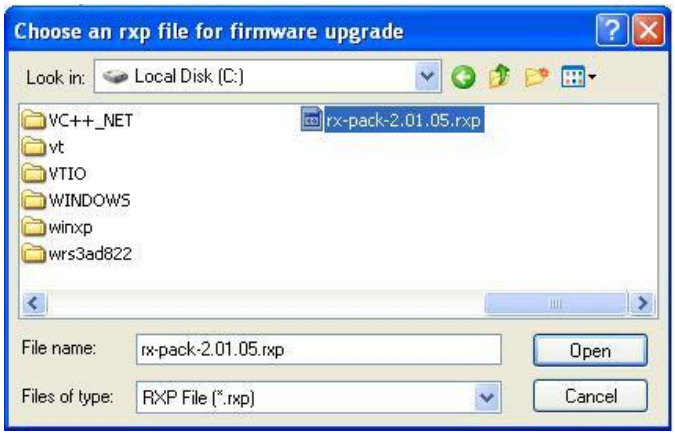


Fig 4.2e

Step 2 : A panel **[Choose an RX file for firmware upgrade]** will pop up. Choose the rxp file and click **[Open]**.

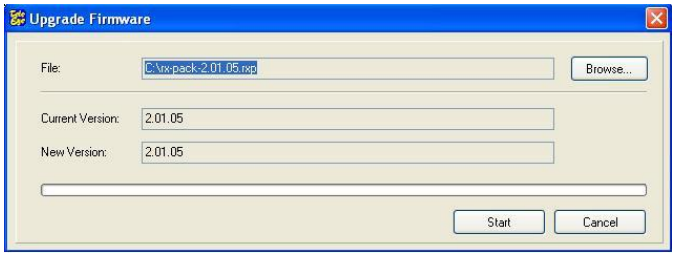


Fig 4.2f

Step 3: A panel **[Upgrade Firmware]** will pop up and click **[Start]** to start upgrading.

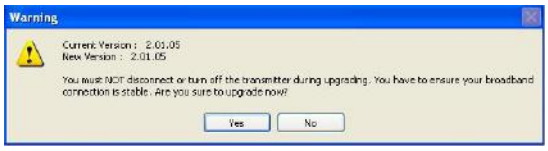


Fig 4.2h

Step 4: A warning message will pop up, click **[Yes]** to continue

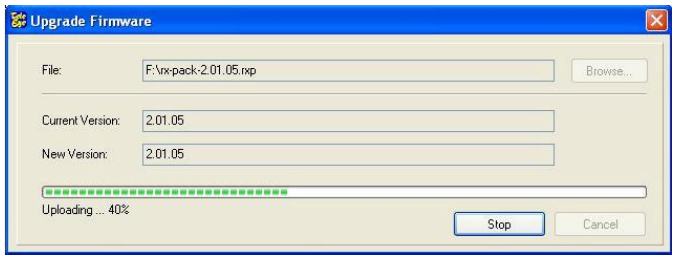


Fig 4.2i

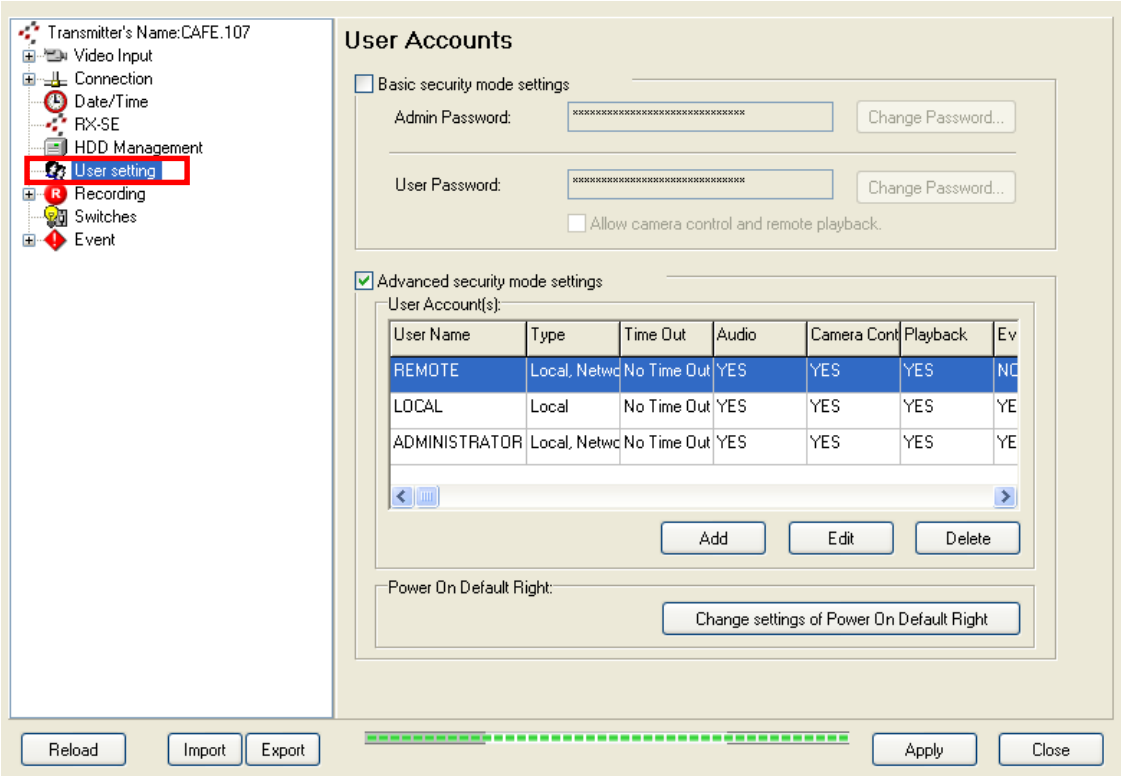
Step 5: Wait until the progress bar became full.

**Do not close the panel until upgrading finished.

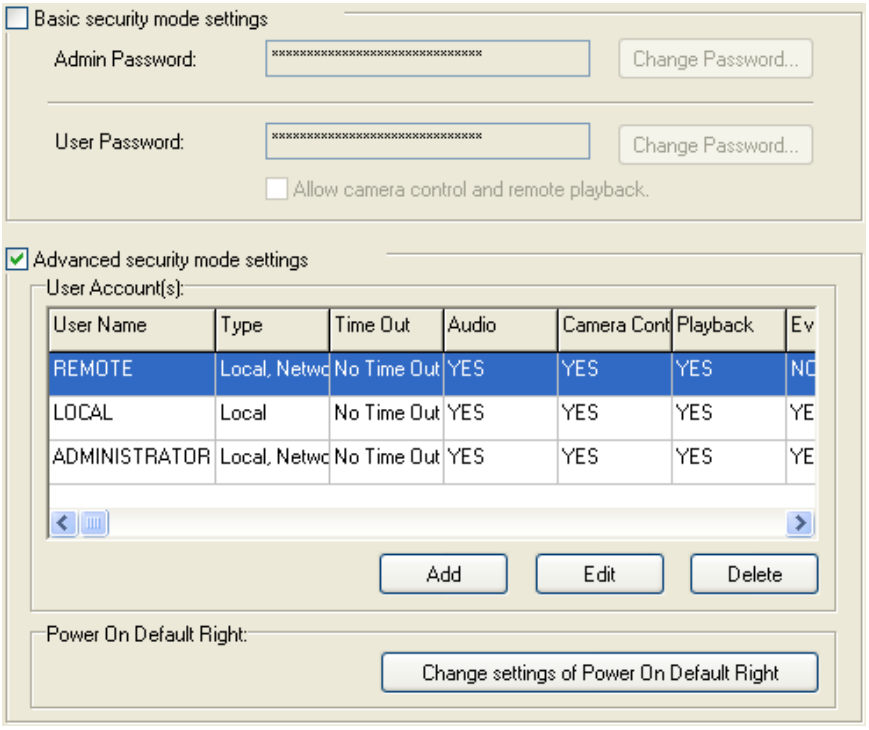
Advanced Security Mode User Account Management (Only for RX 360 series):

(i) Switch Security Mode:

Step 1 : Click **[User setting]** option on **{Transmitter Setup}** panel to enter **{User Accounts}** Tab.

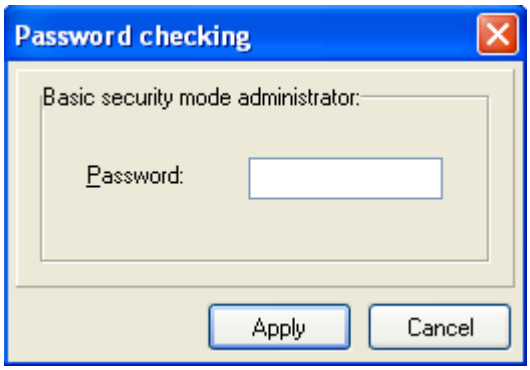


Step 2: Click **[Basic security mode settings] / [Advanced security mode settings]** checkbox.

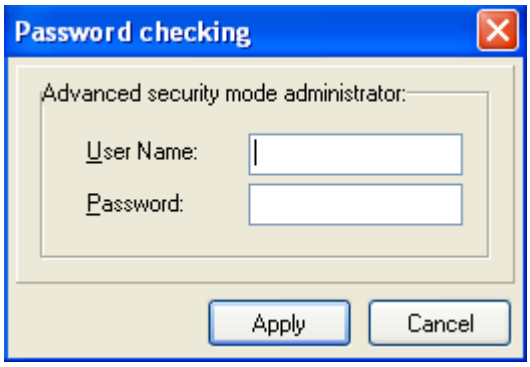


Step 3. Input required password checking information in **{Password checking}** panel.

For switching to basic security mode, enter administrator password.



For switching to advanced security mode, enter password and username of a user who has “USER ACCOUNT" group permission.

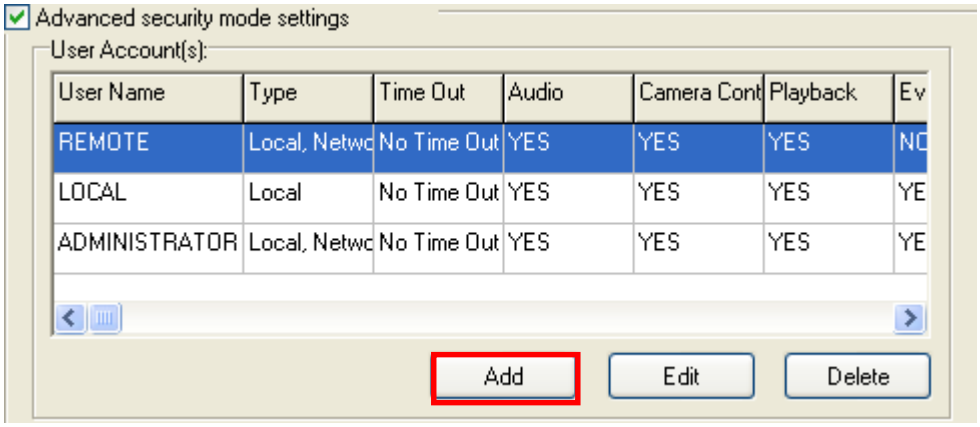


Step 4. Click 

button to save the setting. The transmitter will restart automatically if password checking is successful.

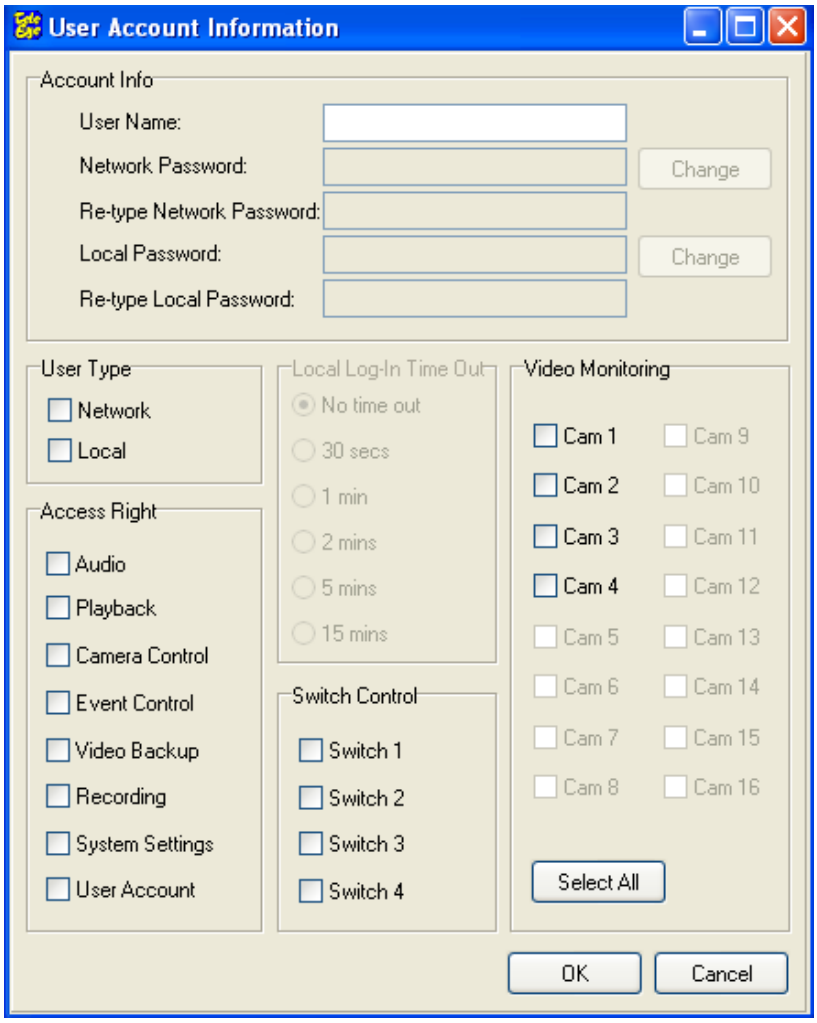
(ii) Add user for advanced security mode:

Step 1 : In **{User Accounts}** Tab, click **[Add]** button.



Step2: In **{User Account Information}** page, enter the user information and click **[OK]** button.

(Note: 1. At least one user type must be selected. 2. At least one camera must be selected)

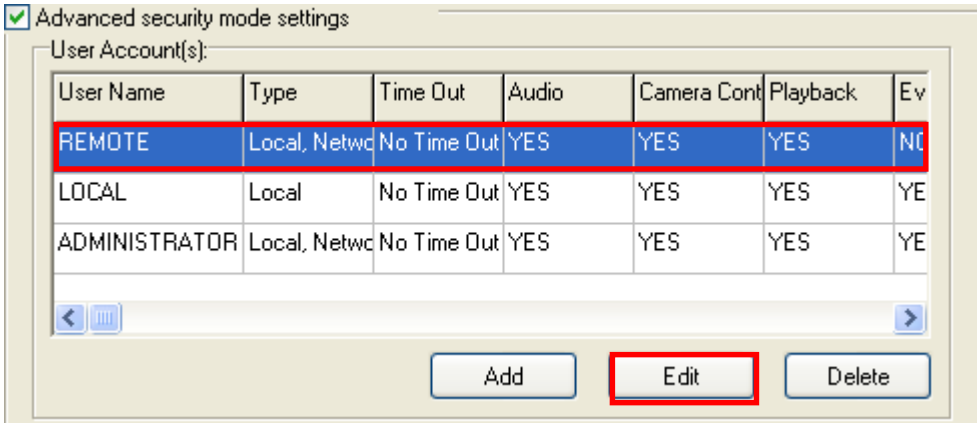


Step 3: Click  button to save the setting.

Change Password, Registration Checking & User Account Management

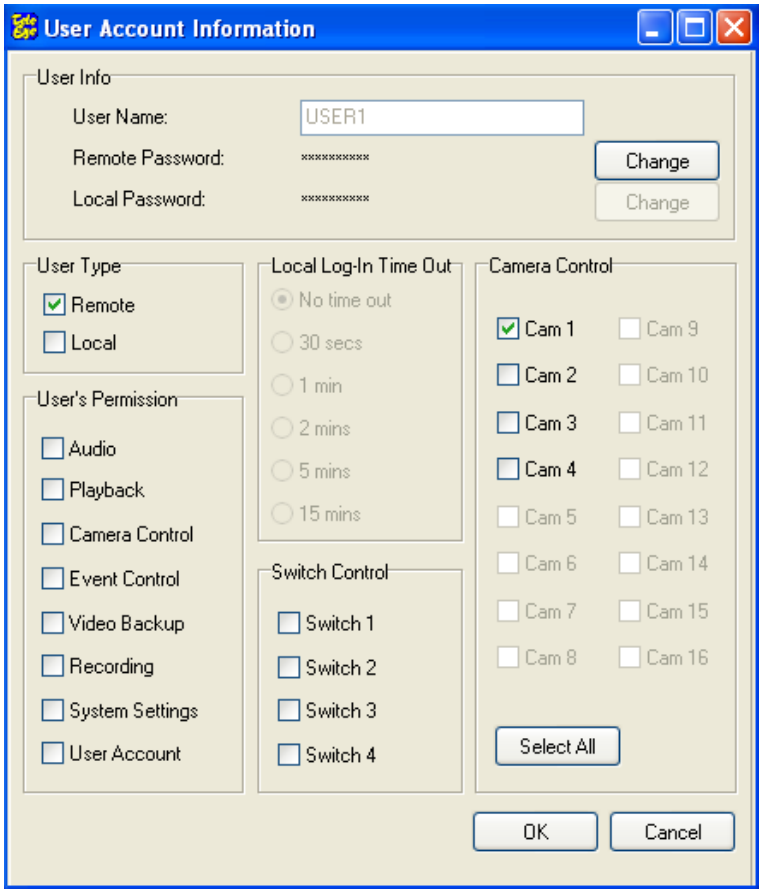
(iii) Edit user settings for advanced security mode:

Step 1 : In **{User Accounts}** Tab, select the target user and click **[Edit]** button.



Step 2: In **{User Account Information}** page, edit the settings of the user and click **[OK]** button

(For changing password, click **[Change]** button and enter the old password and new password.)

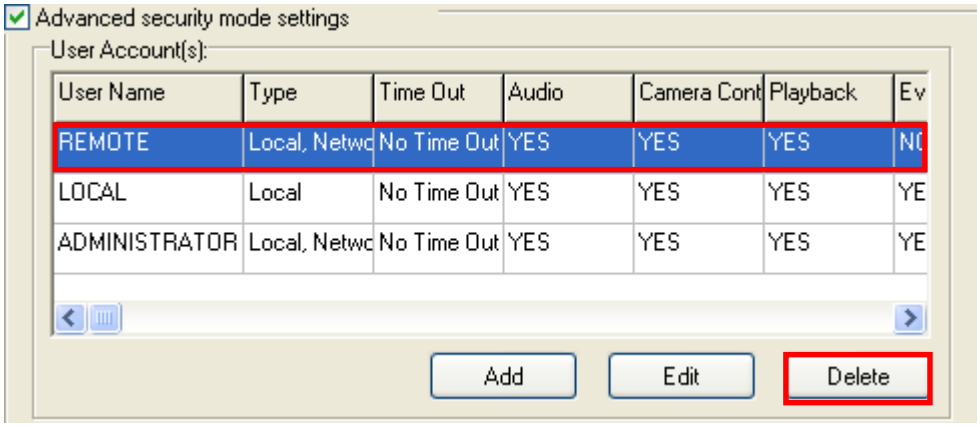


Step 3: Click 

button to save the setting.

(iv) Delete user for advanced security mode:

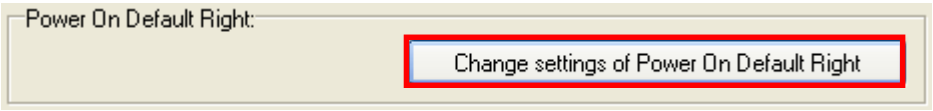
Step 1 : In **{User Accounts}** Tab, select the target user and click **[Delete]** button.



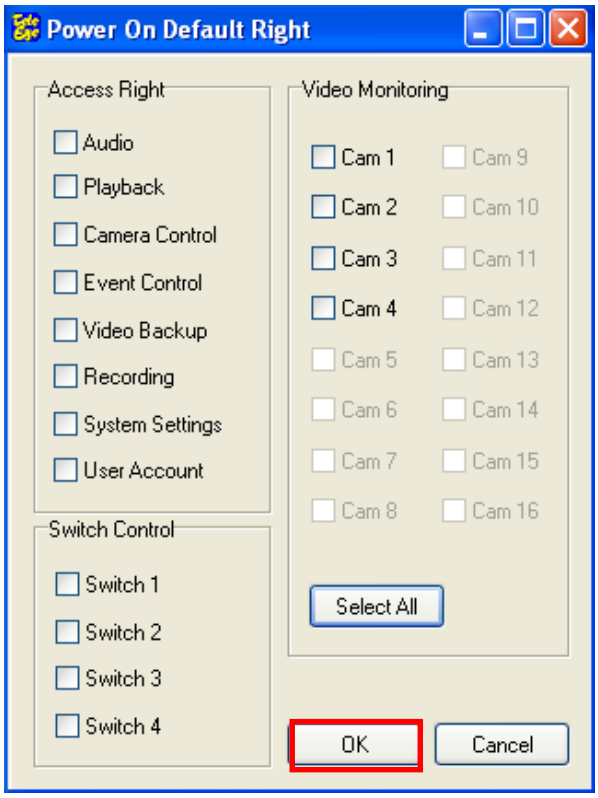
Step 2: Click  button to save the setting.

(v) Modify Power On Default Right

Step 1 : In **{User Accounts}** Tab, click **[Change settings of Power On Default Right]** button.



Step 2 : In **{Power On Default Right}** Page, change the settings and click **[OK]** button.



Step 3: Click  button to save the setting.

4.3 Video Settings

Video settings menu allows user to do the camera related setting : video mode, PTZ driver, camera installation and camera name.

Video Mode

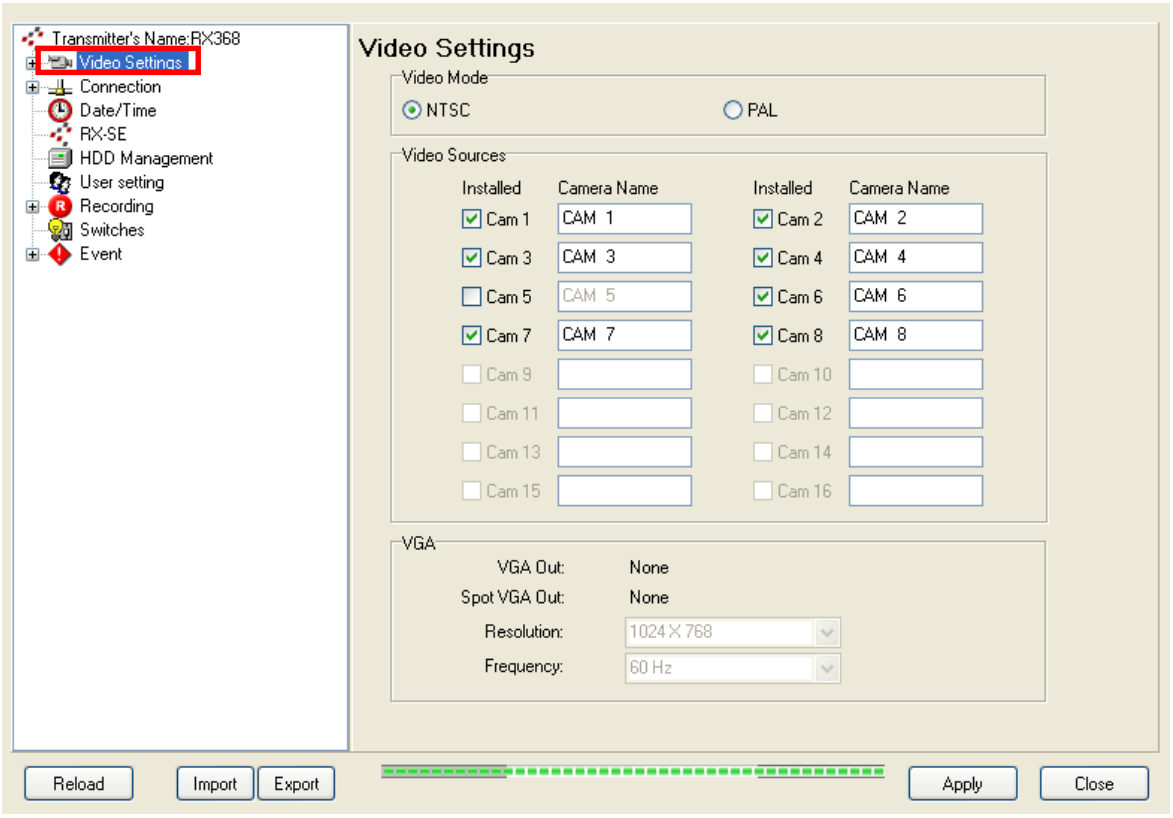
It is video standard setting. Video mode supports **NTSC** and **PAL** option. All cameras connected to the transmitter are necessary to have **same** video mode.

PTZ Driver

The transmitter supports 3 types of PTZ driver : Pelco D, *Tele*Eye DM4 Series and *Tele*Eye DM Series. The 5 baud rate levels : **2400bps**, **4800bps**, **9600bps**, **14400bps** and **19200bps**.

Video Settings Setup Procedure :

Step 1 : Click **[Video Settings]** option on **{Transmitter Setup}** panel to enter **{Video Settings}** panel.



Video Settings

Fig 4.3a

Fig 4.3b

Step 2 : Click the button to select **NTSC** or **PAL** video mode

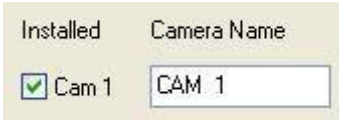


Fig 4.3c

Step 3 : Click **[Installed]** checkbox to install the camera and edit the camera name.

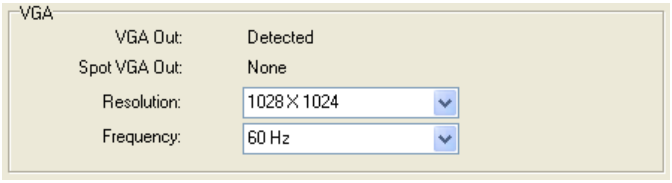


Fig 4.3d

Step 4 : For VGA settings, click **[Resolution]** Combo Box and **[Frequency]** Combo Box to select their corresponding value.

4.4 Connection

*Tele*Eye RX transmitter supports different kind of connection device. The menu allows user to set TCP/IP and modem settings.

Connection Setup Procedure :

Step 1 : Click **[Connection]** option on **{Transmitter Setup}** panel to enter **{Connection Settings}** panel.

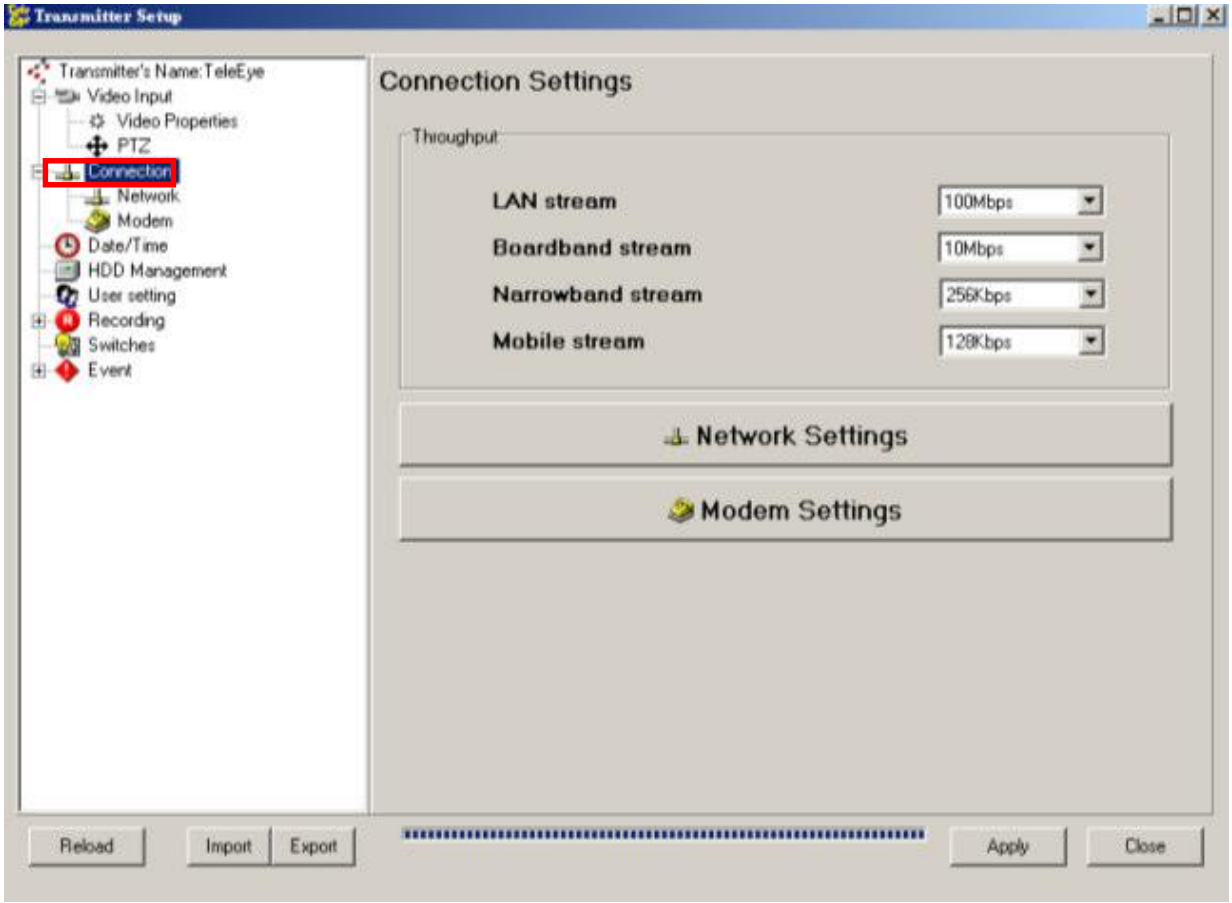


Fig 4.4a

Connection

4.4.1 Network Settings

Network settings menu allows user to do TCP/IP connection stream configuration. If user setup *Tele*Eye RX transmitter for the 1st time, it is highly recommended to follow the setup steps in the *Tele*Eye RX User Guide first.

IP

The Internet protocol (IP) address of the transmitter set by user or given by user's ISP.

Gateway

The Internet protocol (IP) address of the router / network switch of user's network or given by user's ISP that is connected to the transmitter.

DNS

The Internet protocol (IP) address of the domain name server (DNS) of user's network or given by user's ISP that is connected to the transmitter.

***sure*LINK**

***sure*LINK** supports *Tele*Eye transmitter with dynamic IP. User can set ***sure*LINK** update the transmitter IP every 15 minutes, 30 minutes, 45 minutes and 60 minutes. User need to apply for a ***sure*LINK** account before using this function.

For the details of ***sure*LINK**, please refer to P.162 of Section 14.1 : ***sure*LINK** Technology

Network Settings Procedure :

Step 1 : Click **[Connection]** → **[Network]** option on **{Transmitter Setup}** panel to enter **{Network Settings}** panel as shown on **Fig 4.4.1a**.

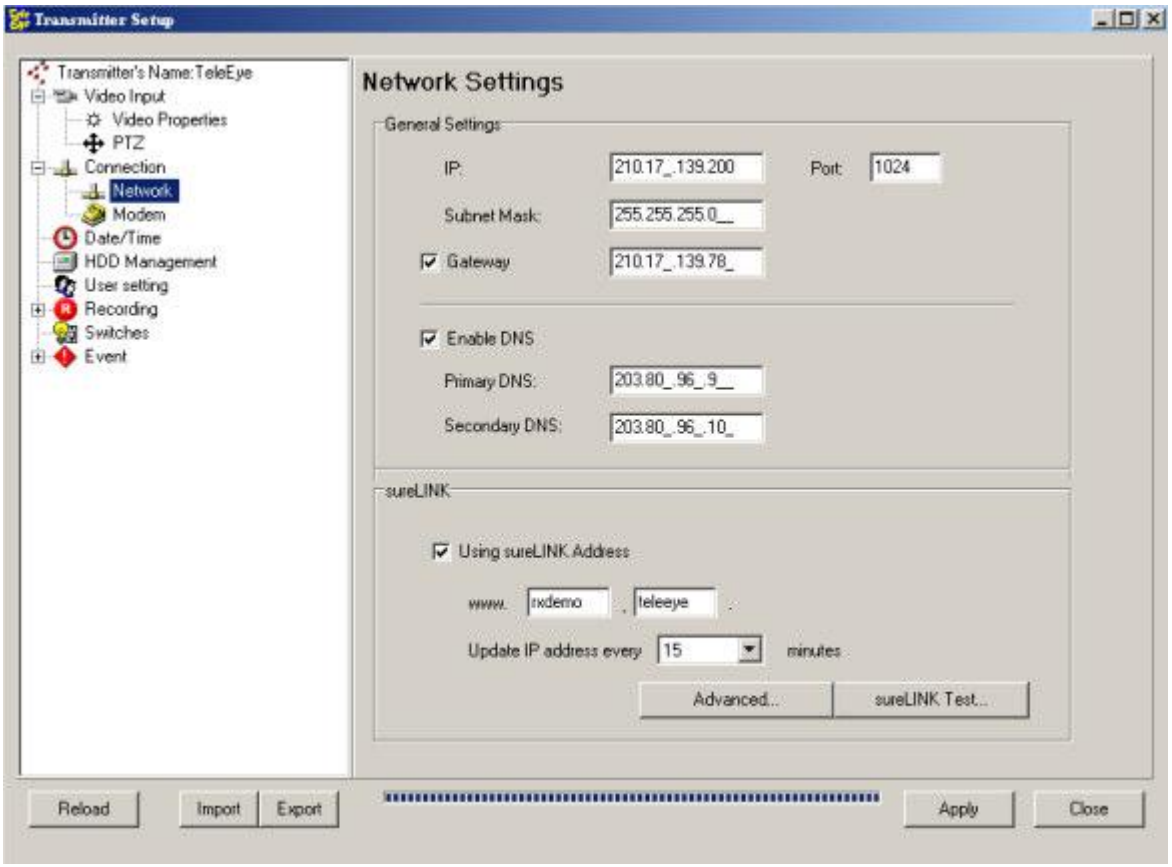


Fig 4.4.1a

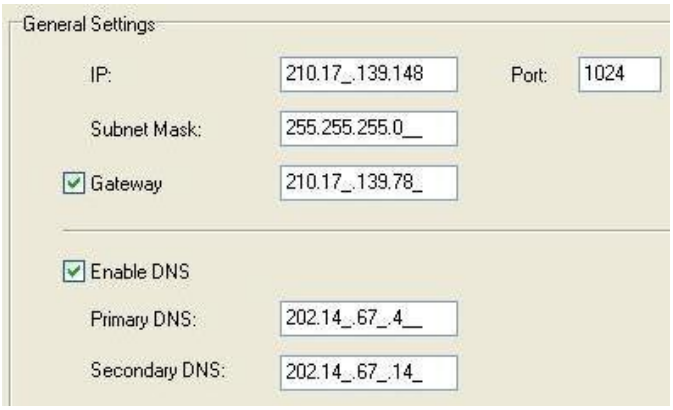


Fig 4.4.1b

Step 2 : Fill in the general network setting items.

Connection Settings

Fig 4.4.1c

Step 3 : Click **[Using *sure*LINK Address]** checkbox to enable ***sure*LINK** function. Fill in the ***sure*LINK** with the recommended format :

www.your_site.your_company.TeleEye.net

Select ***sure*LINK** address refresh rate.

Fig 4.4.1d

Step 4 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

☞ If user change any connection settings, after pressing **[Apply]** button, the transmitter will restart.

4.4.2 Modem Settings

Network settings menu allows user to do modem connection configuration. If user setup *Tele*Eye RX transmitter for the 1st time, it is highly recommended to follow the setup steps in the *Tele*Eye RX User Guide first.

Baud Rate

It is the baud rate of the modem connection. Higher baud rate can have higher connection speed.

Ring Count

It is the ring count of the modem before connecting to the transmitter.

Extra Initialization Command

It is used for inputting modem AT command for controlling the modem.

Modem Settings Procedure :

Step 1 : Click **[Connection]** → **[Modem]** option on **{Transmitter Setup}** panel to enter **{Modem Settings}** panel as shown on **Fig 4.4.2a**., select modem interface in **[Interface]** Combo Box.

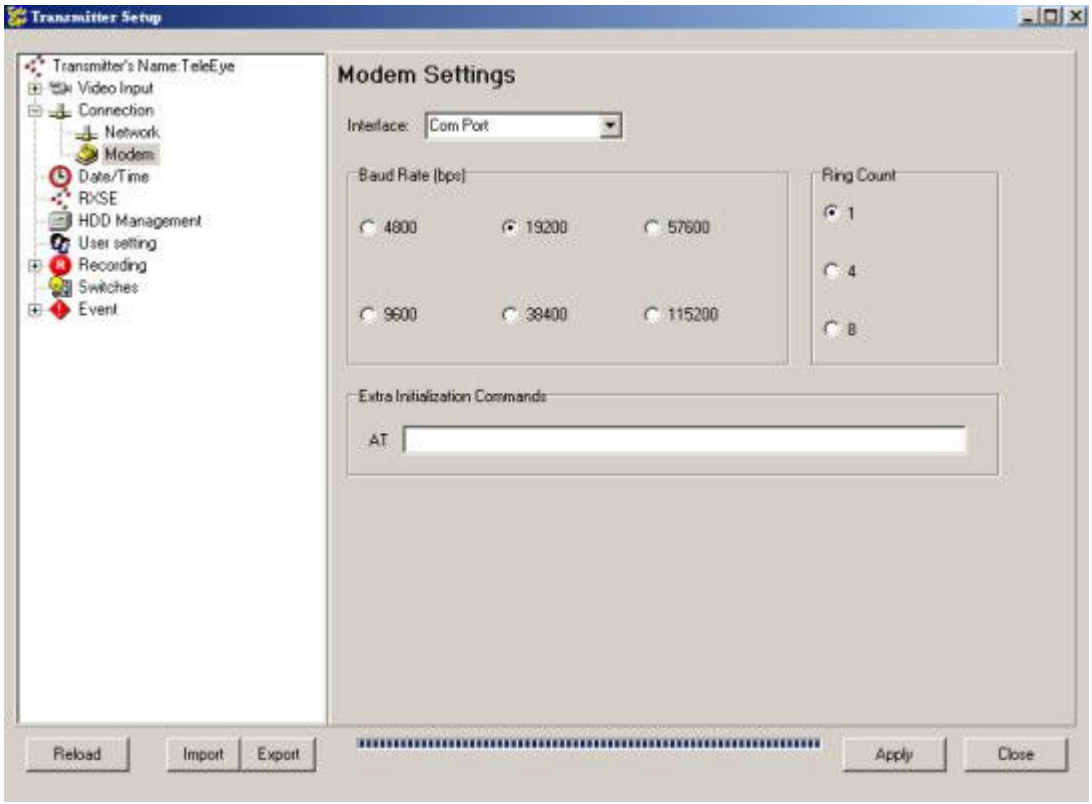


Fig 4.4.2a

Fig 4.4.2b

Step 2 : Choose **[Baud Rate]** and **[Ring Count]** setting items.

Fig 4.4.2c

Step 3 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

Connection Settings

4.4.3 3G USB Modem Setting :

For firmware supporting 3G USB Modem, an additional option will appear as Fig 4.4.3a:

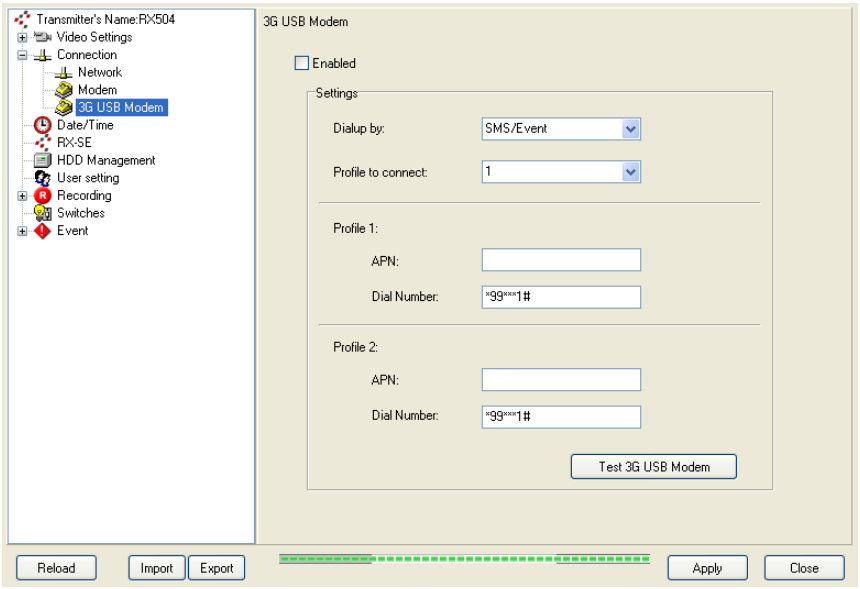
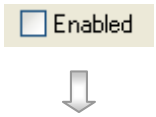
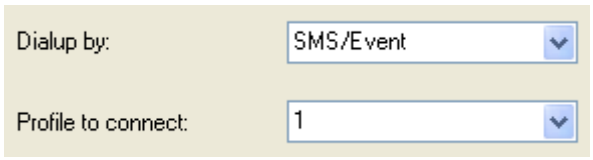


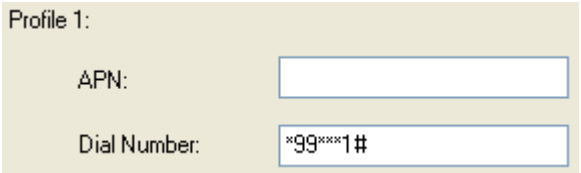
Fig 4.4.3a



Step 2 : Click **[Enabled]** checkbox.



Step 3 : Choose **[Dialup by]** and **[Profile to connect]** in the combo boxes provided.



Step 4 : Input **[APN]** and **[Dial Number]** in the boxes provided.

Step 5 : Press **[Apply]** button save the setting to the transmitter.

4.4.4 IP Filtering Setting :

For firmware supporting 3G USB Modem, an additional option will appear as Fig 4.4.4a:

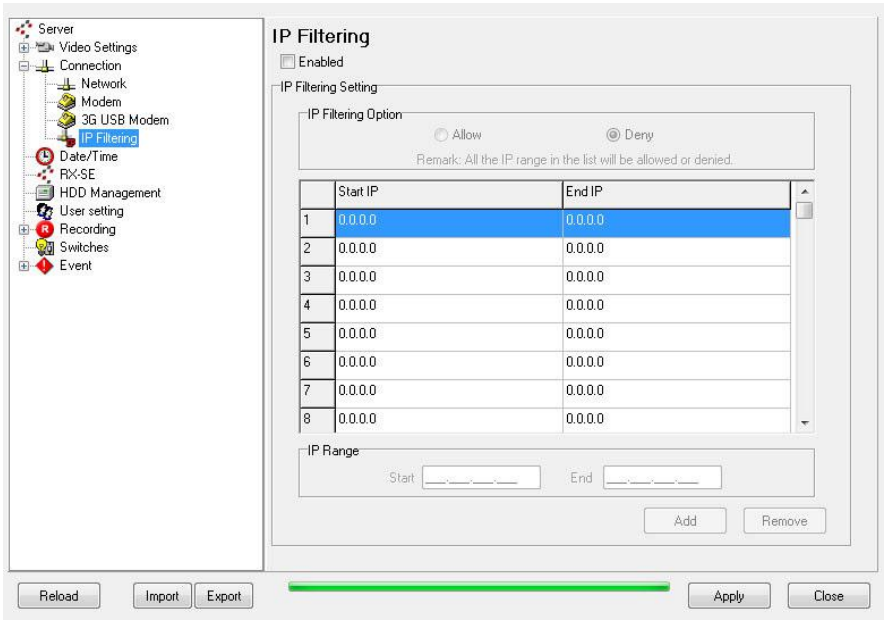
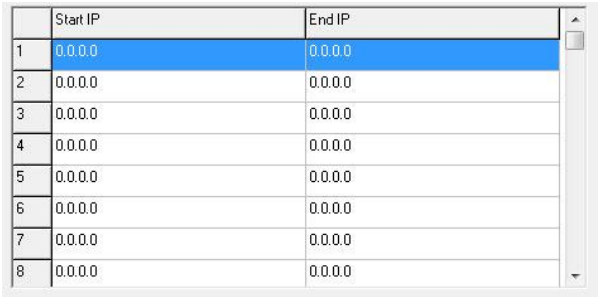


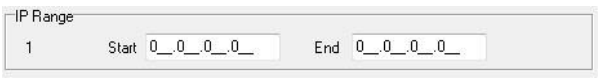
Fig 4.4.4a

Step 2 : Click **[Enabled]** checkbox.

Step 3 : Select **[Allow]** button or **[Deny]** button to allow or deny all IP range record.



Step 4 : Check on the wanted IP range record in the table, the background color of the selected record will be changed.

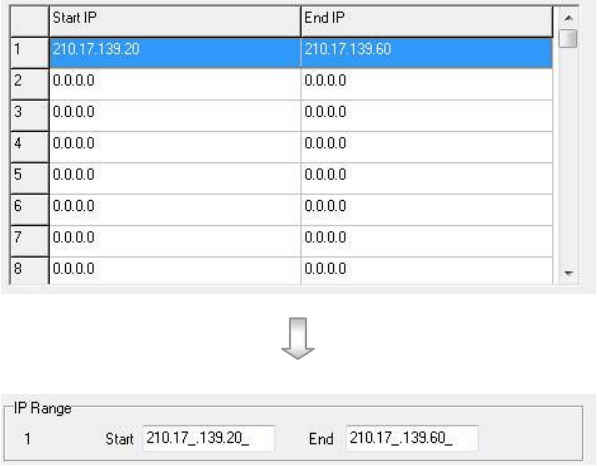


Step 5 : The selected IP range will display on the text fields, user can modify them.

Step 6 : Press **[Add]** button to add the new IP range to the table.

Step 7 : Press **[Apply]** button save the setting to the transmitter.

Modify/Remove exist IP record



Step 8 : Check on the wanted IP range record in the table, the background color of the selected record will be changed.

Step 9 : The selected IP range will display on the text fields, user can modify them.

Step 10 : Press **[Modify]** button to update the IP range or Press **[Remove]** button to remove the exist IP range.

Step 11 : Press **[Apply]** button save the setting to the transmitter.

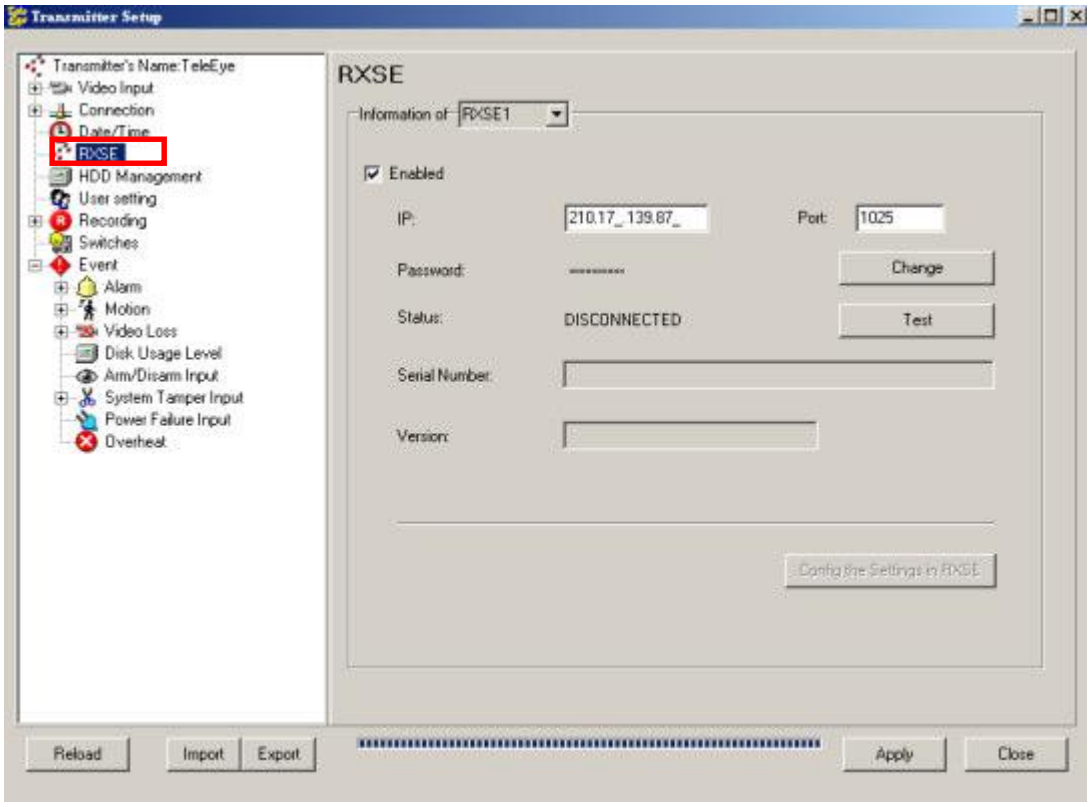
Connection Settings

4.5 RXSE

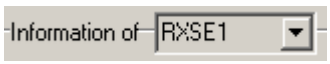
If there is any RXSE in the network, it allows users to set the RXSE settings for *Tele*Eye RX transmitter.

RXSE Setup Procedure:

Step 1 : Click **[RXSE]** option on **{Transmitter Setup}** panel to enter **{Date / Time Settings}** panel.



Step 2 : Click **[RXSE]** combo box button to choose RXSE



Step 3 : Click **[Enabled]** button to enable RXSE

Step 4: Enter the IP and Port number for the target RXSE in the boxes provided.

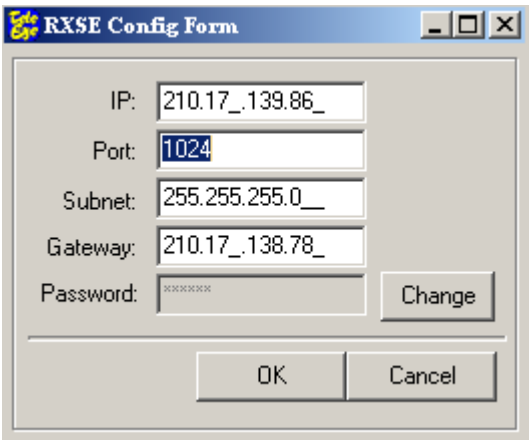
Step 5: Click **[Change]** button to open **{Change RXSE Password}** panel.

Step 6: Enter the required password in the boxes provided and click **[OK]** button to change the password.

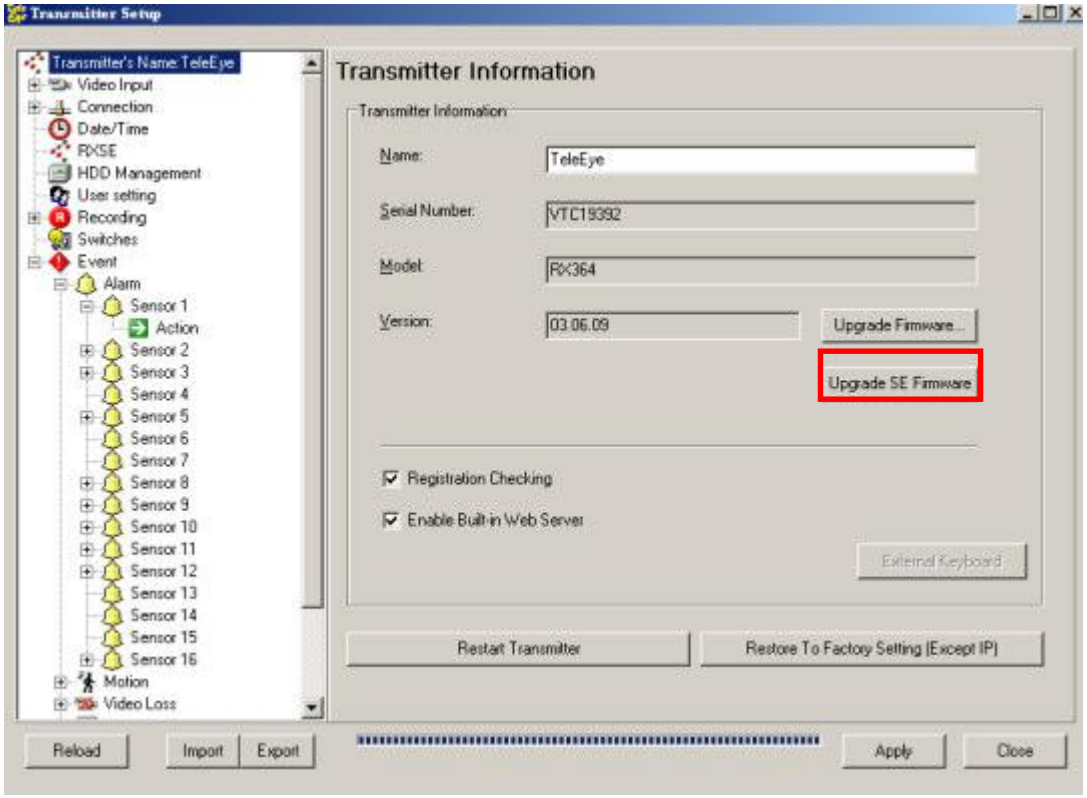
Step 7 (Optional): Click **[Test]** button to test the connection status using the IP, Port and Password in Step 1 to 5.

Step 8 : Click **[Config the Settings in RXSE]** button to configure settings of the connected RXSE, **{RXSE Config Form}** Panel will pop up

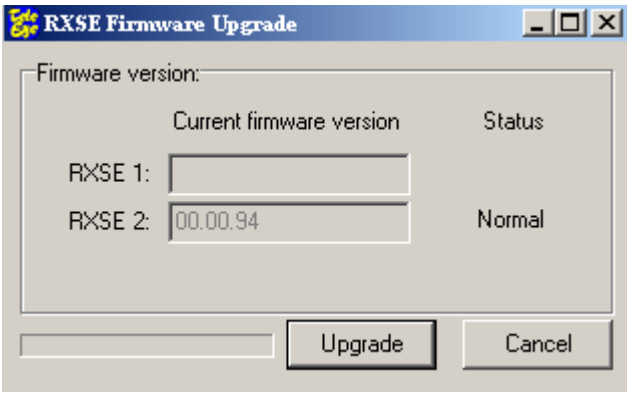
Step 9: Input the required information in the boxes provided and the click **[OK]** button to apply the configuration settings.



To upgrade RXSE, on **{Transmitter Information}** panel, click **[Upgrade SE Firmware…]**



Click Upgrade in the **{RXSE Firmware Upgrade}** panel and select the SE firmware package.



4.6 Date / Time

It allows users to set the clock for *Tele*Eye RX transmitter manually or automatically with the internet clock.

Date / Time Setup Procedure (manually):

Step 1 : Click **[Date / Time]** option on **{Transmitter Setup}** panel to enter **{Date / Time Settings}** panel.

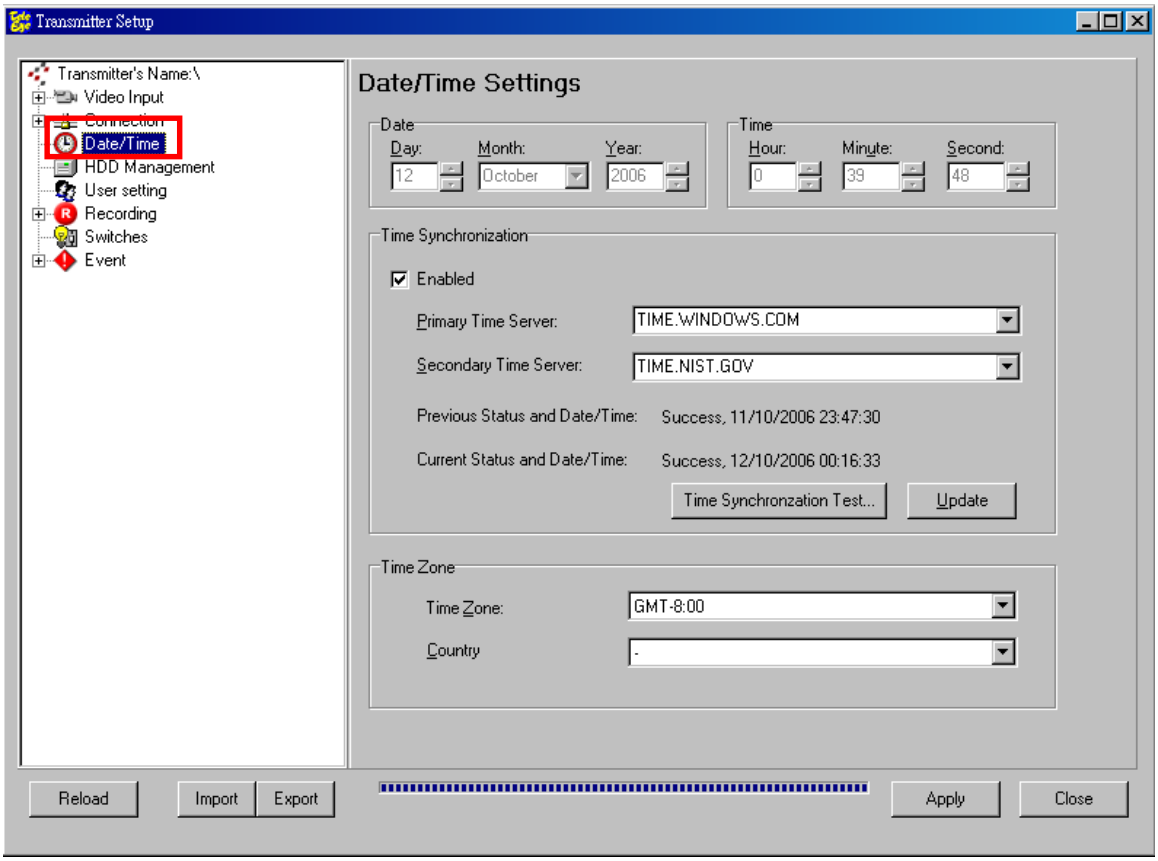


Fig 4.5a

Step 2 : Select the date and time

Fig 4.5b

Fig 4.5c

Step 3 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

Date / Time Setup Procedure (with internet clock):

Step 1 : Click **[Enable]** checkbox in the **{Date / Time Settings}** panel.

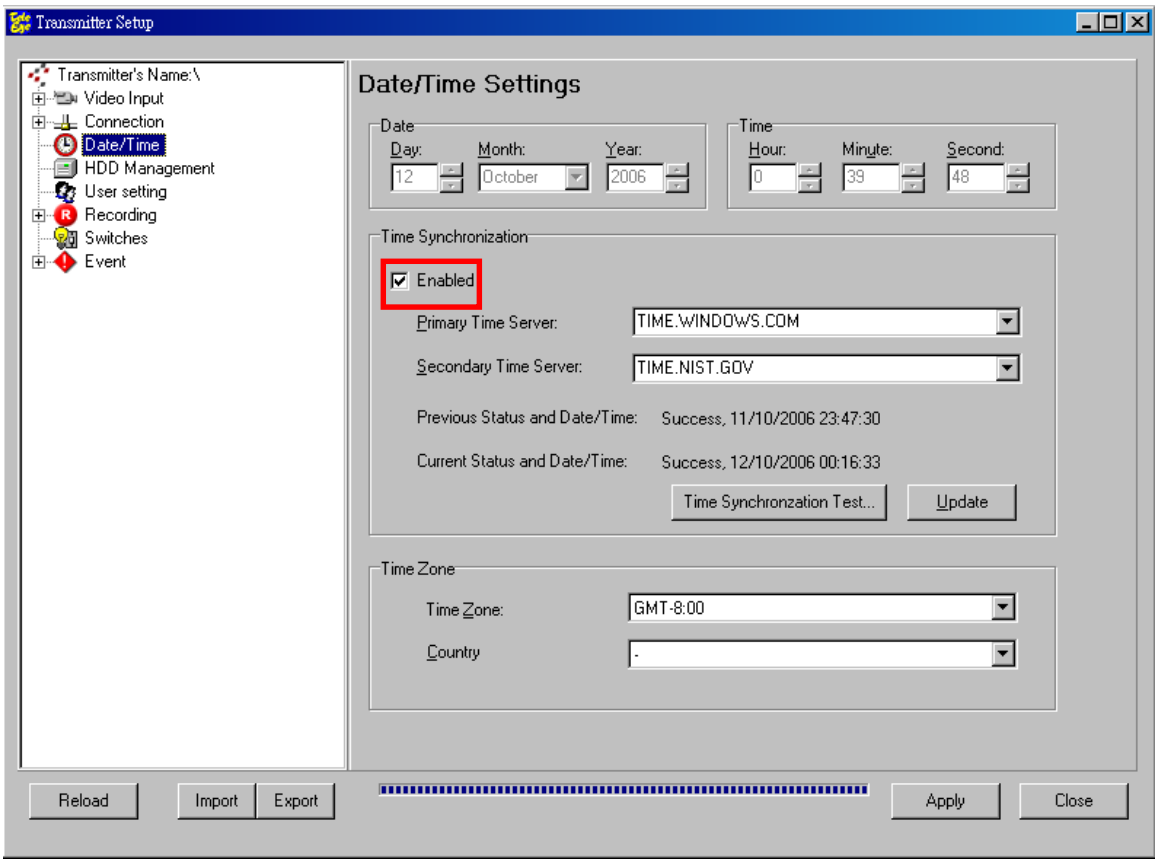


Fig 4.5d

Fig 4.5e

Step 2 : Input the address of time server in **[Primary Time Server]**

Fig 4.5f

Step 2 : Input the address of the secondary time server in **[Secondary Time Server]**

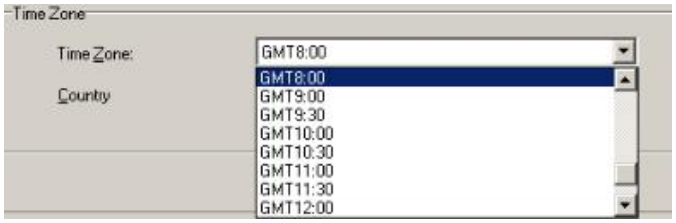


Fig 4.5g

Step 2 : Choose time zone from the combo box button **[Time Zone]**

Fig 4.5g

Step 2 : Choose country from the combo box button **[Country]**

Fig 4.5h

Step 3 : Press **[Apply]** **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

4.7 HDD Management

This menu allows user to view the hard disk information, do scan disk and format disk.

Model No.

The model number of the hard disk

Serial No.

The serial number of the hard disk

Capacity

The total capacity of the hard disk

Used Space

It is the used up capacity of the hard disk. **Cycled** means the oldest recording data has been removed due to cyclic disk mode for recording.

Scan Disk

*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:

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

Format Disk

It is used for cleaning up hard disk space for other recording. After formatting, the transmitter will restart automatically.

☞ During scan disk or format disk, all recording, playback, scan disk and format disk through OSD menu are **terminated**.

HDD Management

HDD Management Procedure :

Step 1 : Click **[HDD Management]** option on **{Transmitter Setup}** panel to enter **{HDD Management}** panel.

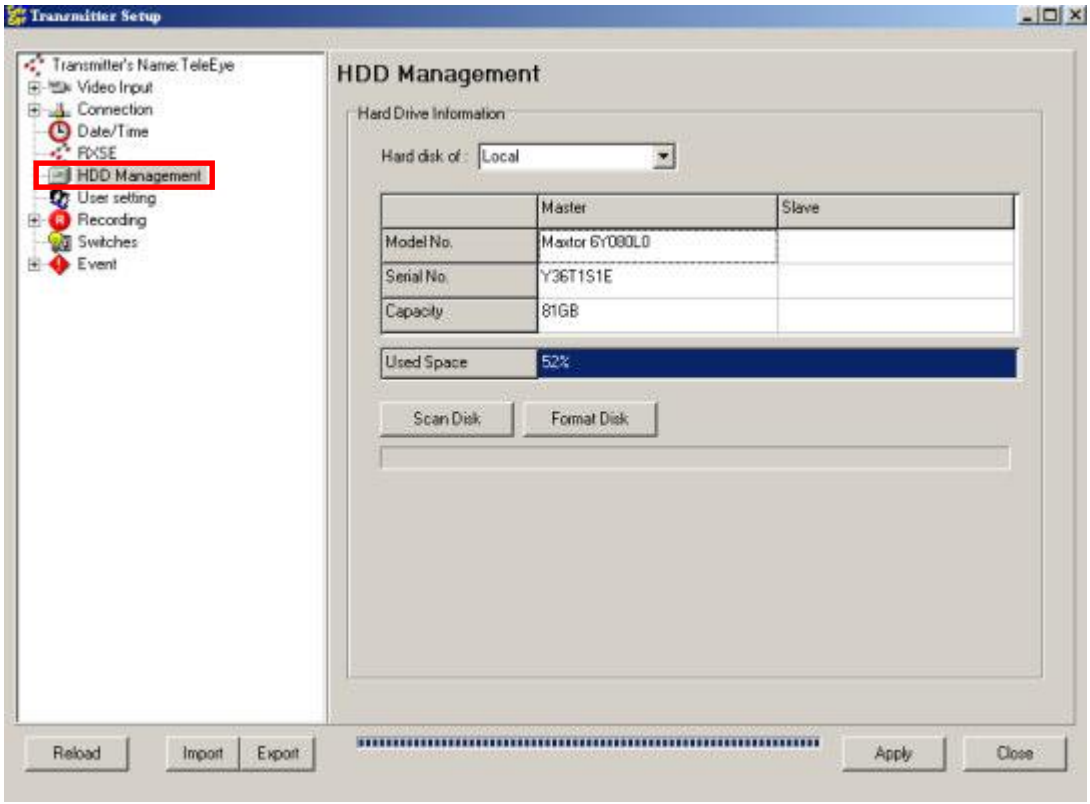
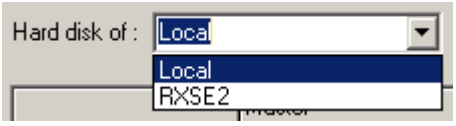


Fig 4.6a

Step 2: Select Hard disk in **[Hard Disk]** Combo Box



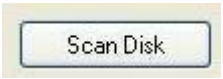


Fig 4.6b

Press **[Scan Disk]** button to do scan disk

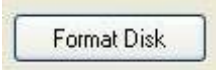


Fig 4.6c

Press **[Format Disk]** button to do format disk. After formatting, the transmitter restarts.

4.8 Restore Factory Setting

***Tele*Eye Reception Software WX-30** supports to restore factory default setting without restoring the network setting, so remote user can connect to the transmitter again after the restoration. User can get back the original default factory setting by using the function.

☞ The transmitter will not reconnect to the transmitter after the restoration. User need to connect to the transmitter manually.

Restore Factory Setting Procedure :

Step 1 : On **{Transmitter Information}** panel, click **[Restore To Factory Setting (Except IP)]** to restore the factory setting.

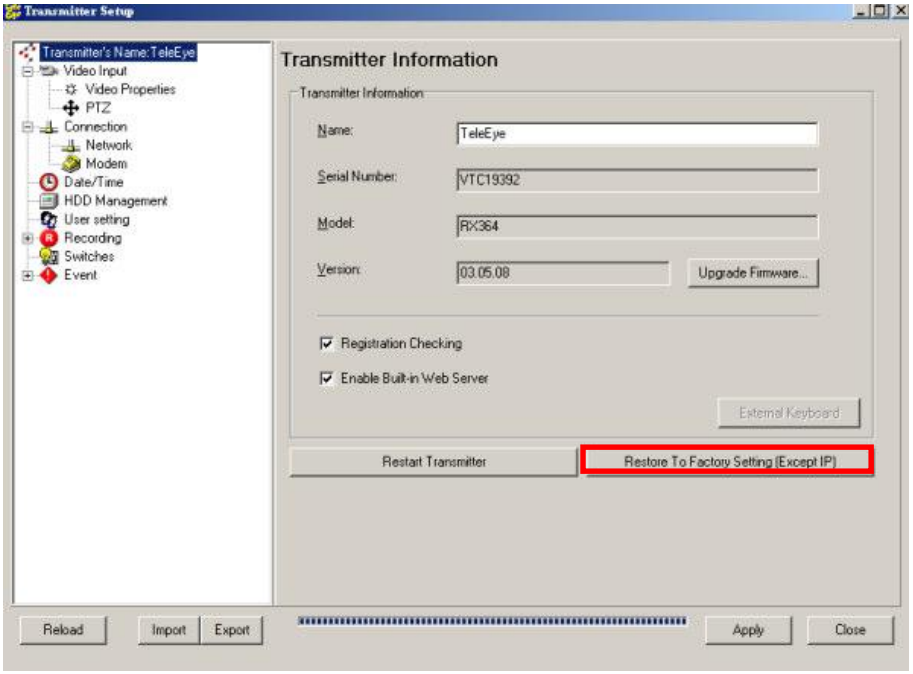


Fig 4.7a

Step 2 : Click **[Yes]** to restore the factory setting. The transmitter will restart afterward.

Fig 4.7b

Restart Transmitter

4.9 Restart Transmitter

Remote user can restart the transmitter by using this function, but the transmitter will not reconnect to the transmitter after the restoration. User needs to connect to the transmitter manually.

Restart Transmitter Procedure :

Step 1 : On **{Transmitter Information}** panel, click **[Restart Transmitter]** to restart transmitter.

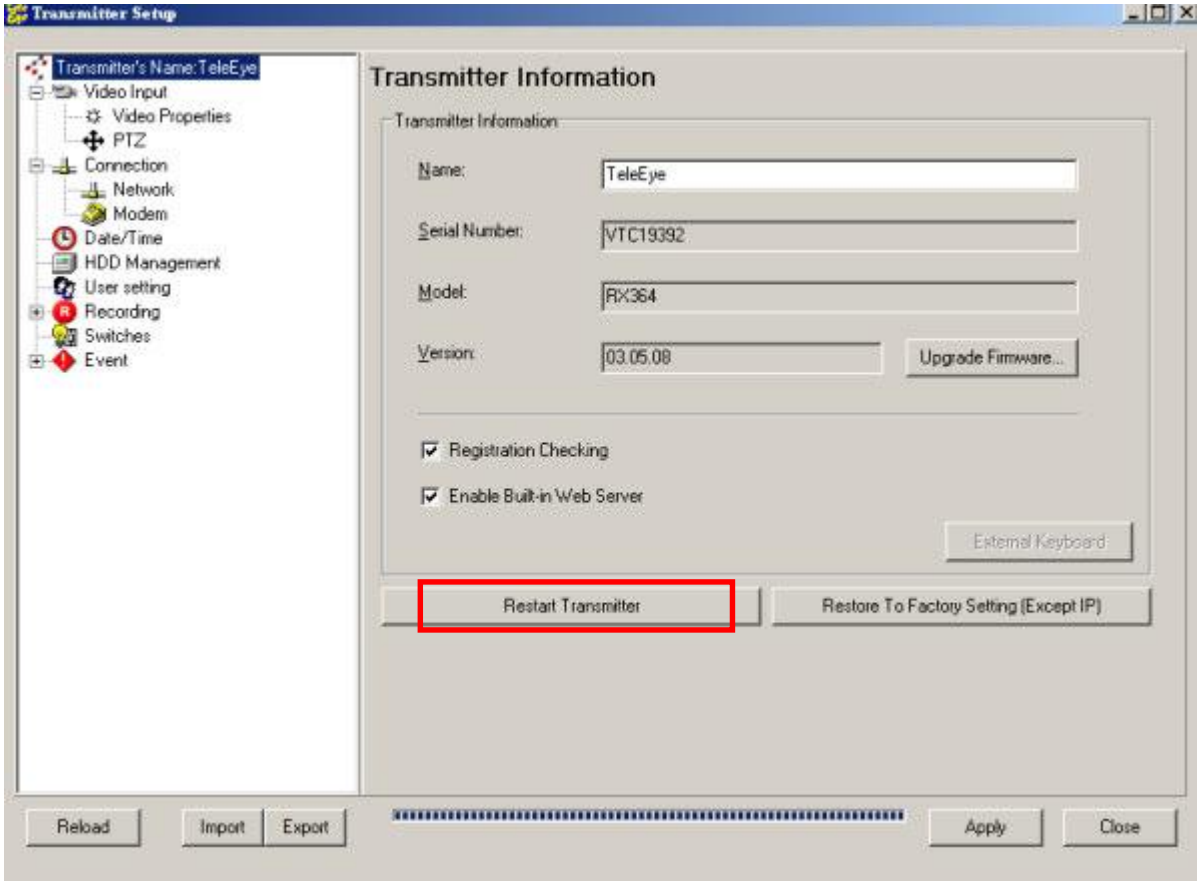


Fig 4.8a

Restart Transmitter

Fig 4.8b

Step 2 : Click **[Yes]** to restart the transmitter.

4.10 Time Sync Test

Step 1 : In **{Transmitter Setup}** panel, click **[Date/Time]** as **Fig 4.9a**.

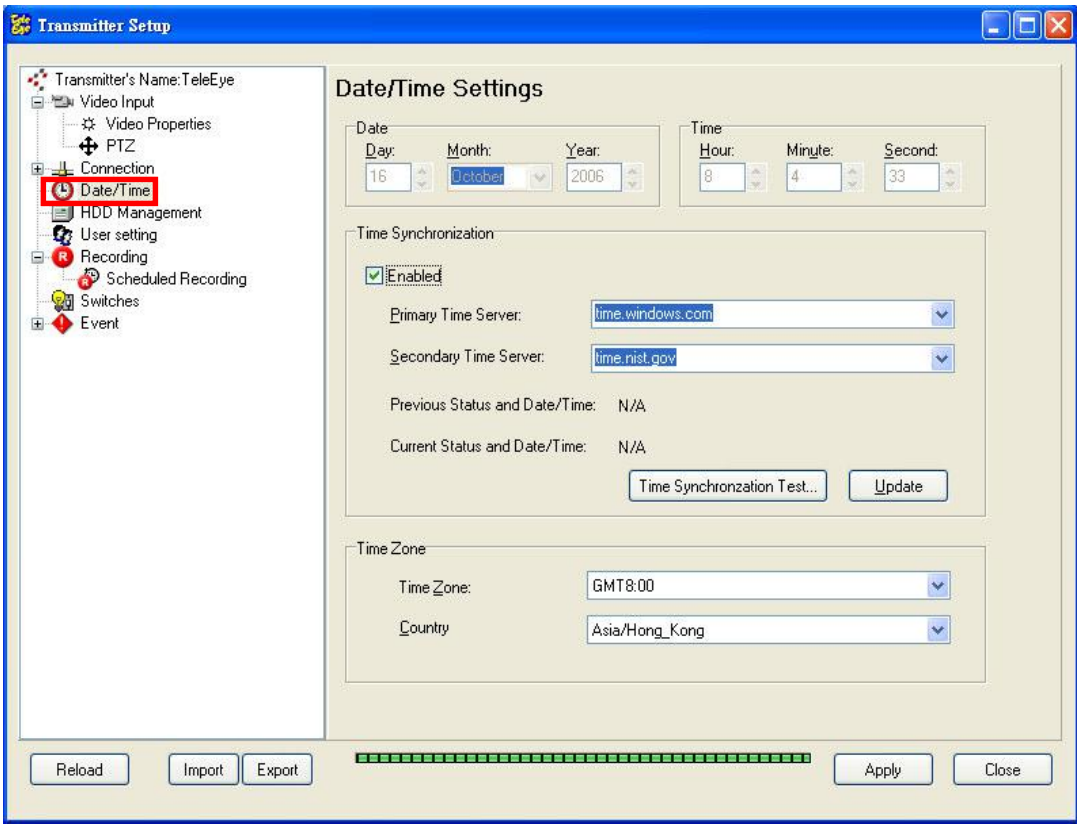
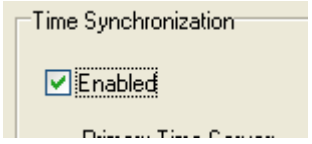


Fig 4.9a



Step 2 : Click **[Enabled]** checkbox to enable the Time

Fig 4.9b

Synchronization.

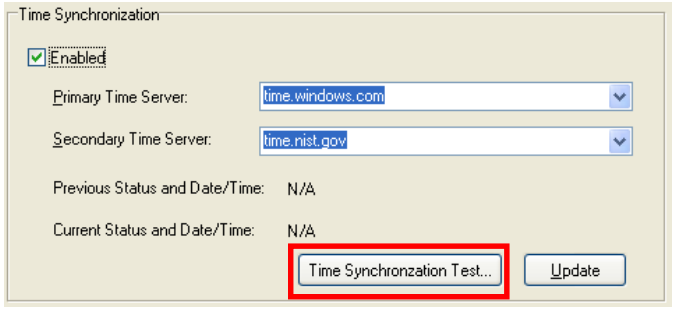


Fig 4.9c

Step 2 : In the time Synchronization, input the Primary Time Server and Secondary Time Server. Click **[Time Synchronization Test….]** to apply the test

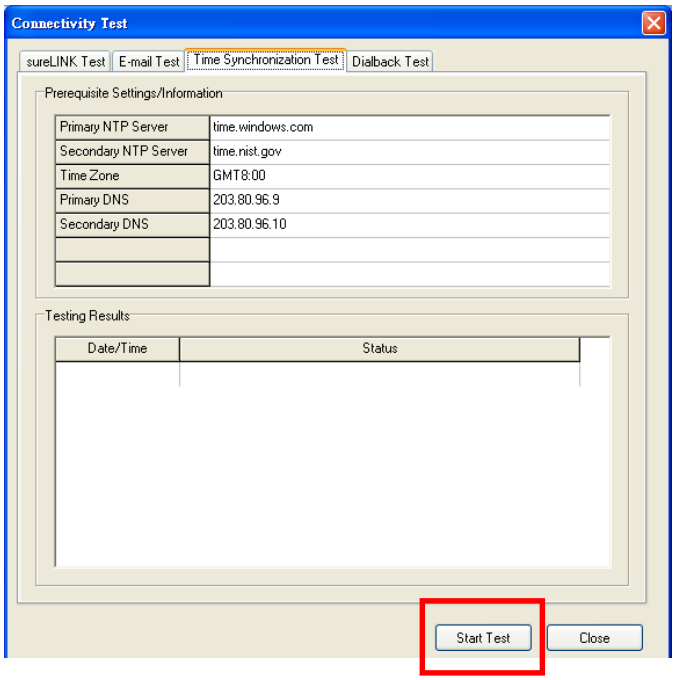


Fig 4.9d

Step 3 : Click **[Sart Test]** to run the test.

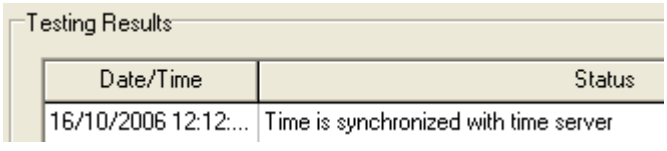
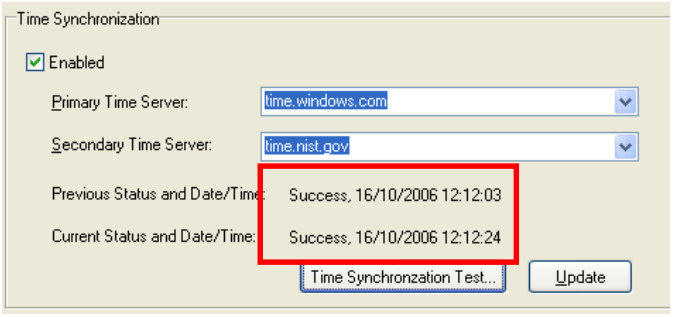


Fig 4.9e

Step 4 : The test result will appear on the status. Click **[Close]** to end the test

Restart Transmitter



The updated test result will show on the Time Synchronization

4.11 *sure*LINK Setup

Step 1 : In **{Transmitter Setup}** panel, click **[Connection] → [Network]** as **Fig 8.1.4c**.

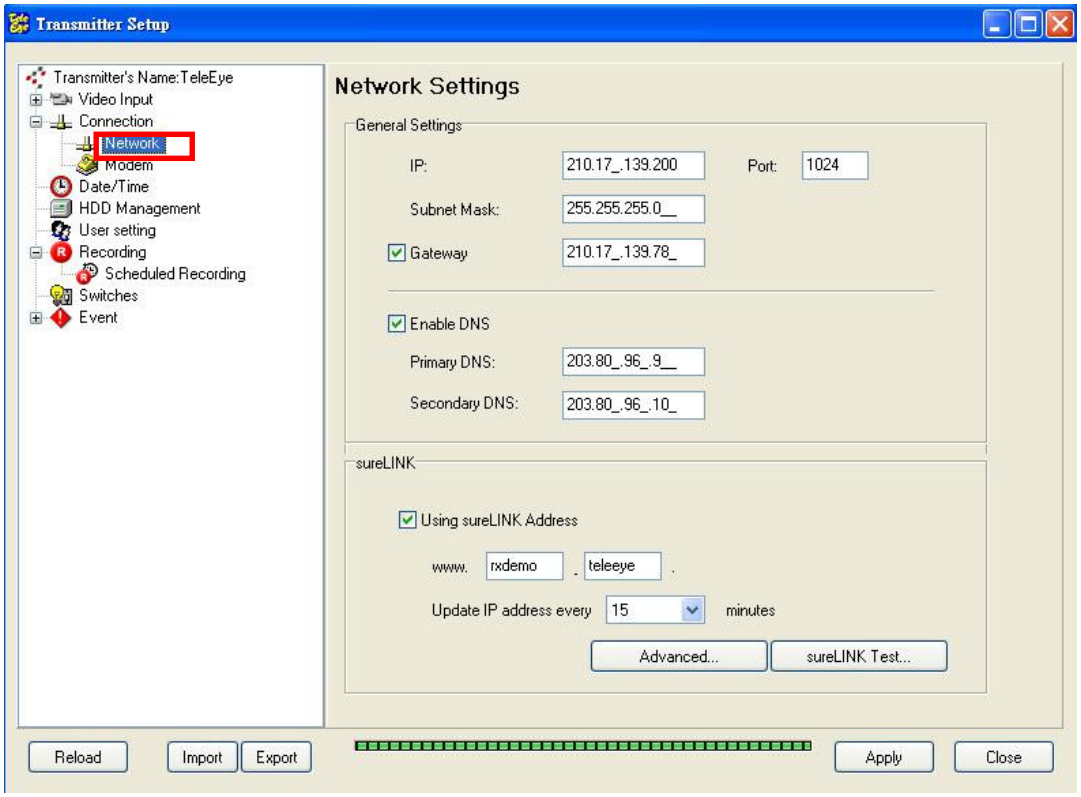


Fig 8.1.4c

Restart Transmitter

Fig 8.1.4d

Step 2 : Click **[Using *sure*LINK Address]** checkbox

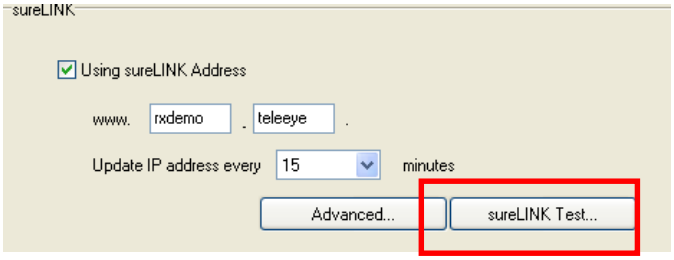


Fig 8.1.4e

Step 3 : Input the address and select a suitable option in Update IP address. Press **[*sure*LINK test..]**

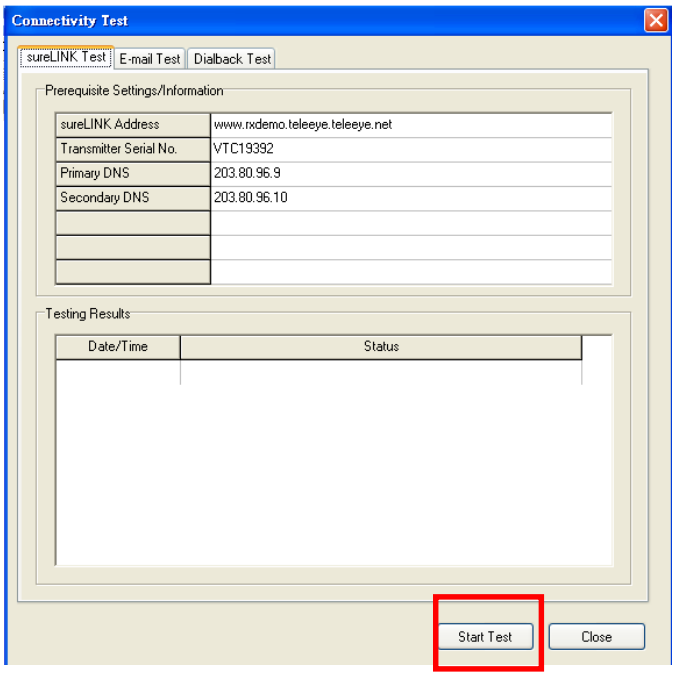


Fig 8.1.4f

Step 4 : Click **[start test]** to save the setting.

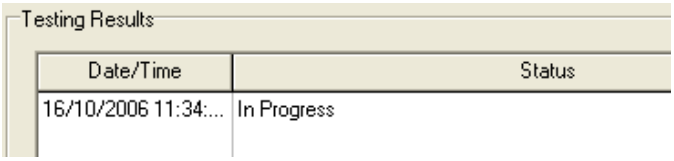


Fig 8.2.3d

Step 4 : Test result will show in the status.

Restart Transmitter

4.12 Import/Export Setting Backup

To start export:

Step 1 : Click **[Transmitter Settings]** icon on the main panel and input the administrator password to pop up **{Transmitter Settings}** panel as shown on **Fig 4.11a**. Press **[Export]** button to do the export setting backup.

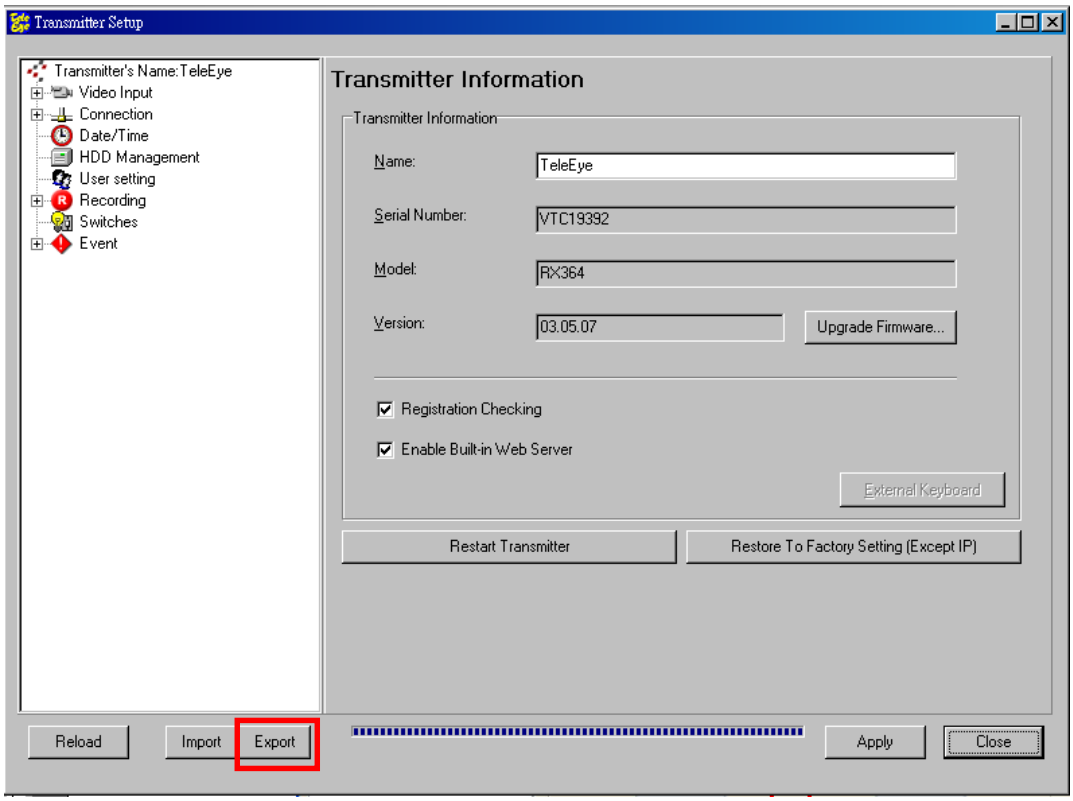


Fig 4.11a

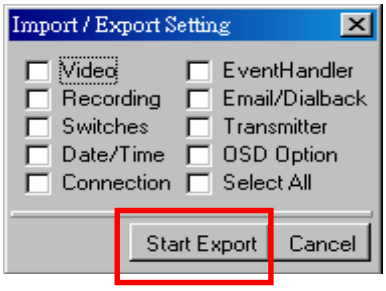


Fig 4.11b

Step 2 : Select the suitable option and press **[Start Export]**. You can select more than one choice.

Restart Transmitter

To start import:

Step 1 : In **{Transmitter Settings},** press **[Import]** button to do the import setting backup.

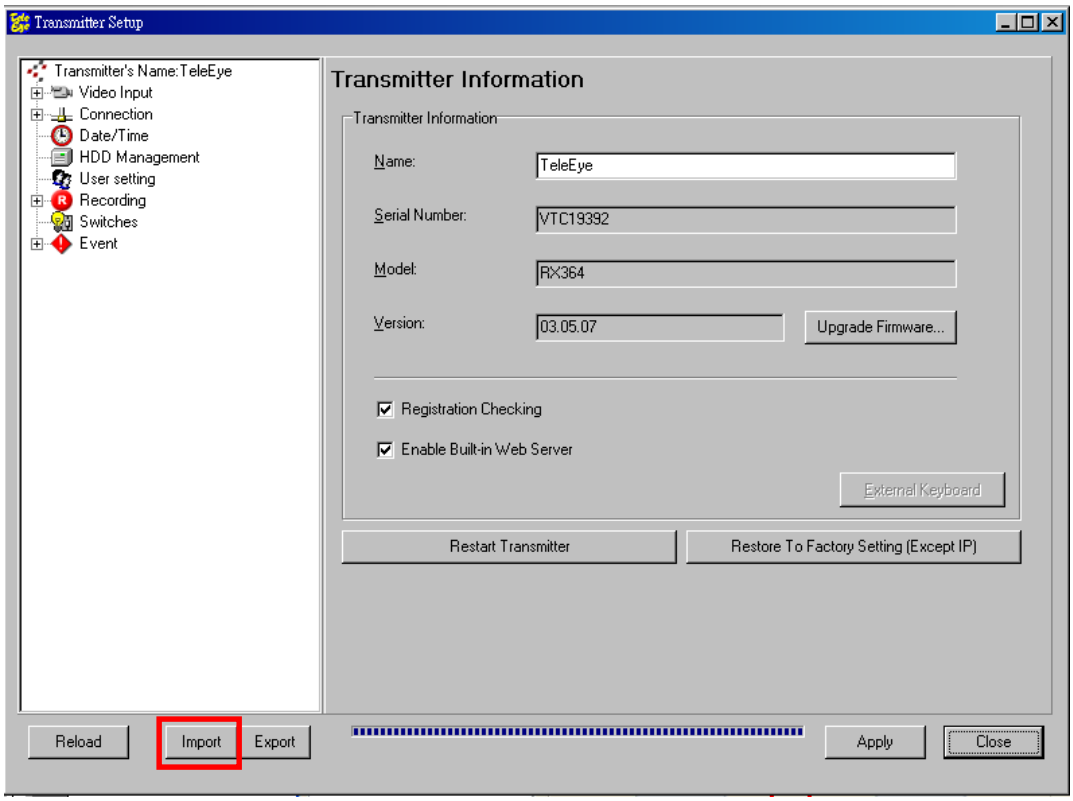


Fig 6.4c

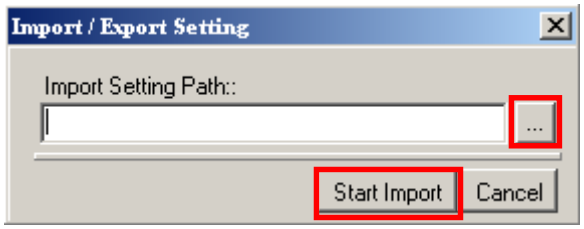


Fig 6.4d

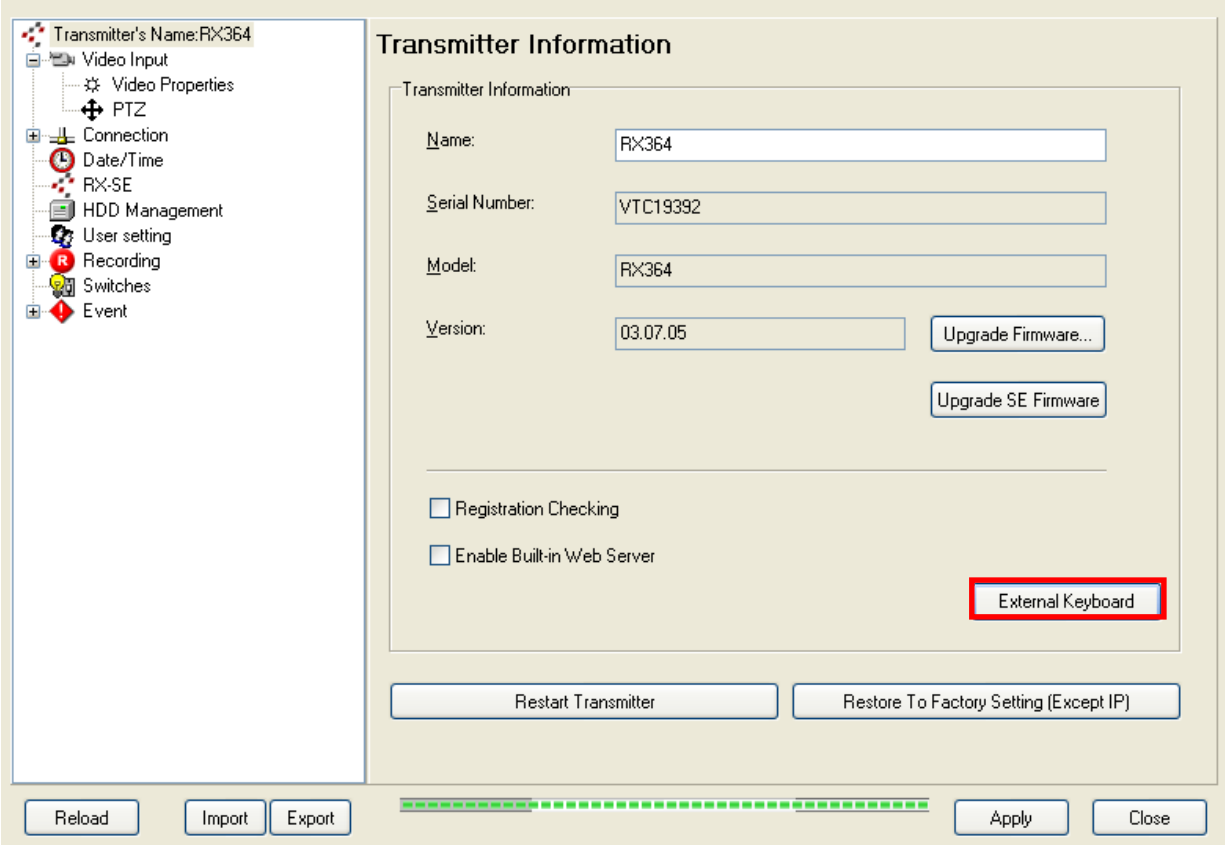
Step 2 : Press **[…]** to select setting backup file and press **[Start Import]**.

Restart Transmitter

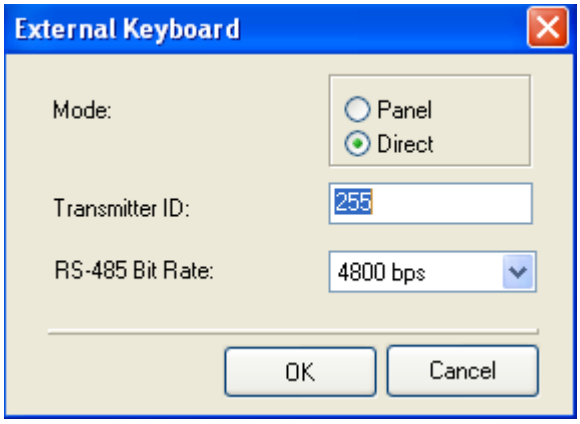
4.13 External Keyboard

External Keyboard setting:

Step 1 : Go to **[Transmitter Information]** panel of the **{Transmitter Setup}** page and click **[External Keyboard]** button.



Step 2: In **{External Keyboard}** page, change the settings and click **[OK]** button.



Step 3: Click  button to save the settings.

Restart Transmitter

Section 5

Remote Live Monitoring

5.1 Screen Mode & Camera

***Tele*Eye Reception Software WX-30** provides remote site real time live monitoring function. During the remote live monitoring, user can select **full** , **quarter** , **3x3** , **hex** , **auto-arrange** screen mode and which camera to view the remote site. User can click the screen on the panel directly to select the camera. The screen mode and camera control panel is shown on **Fig 5.1a**.

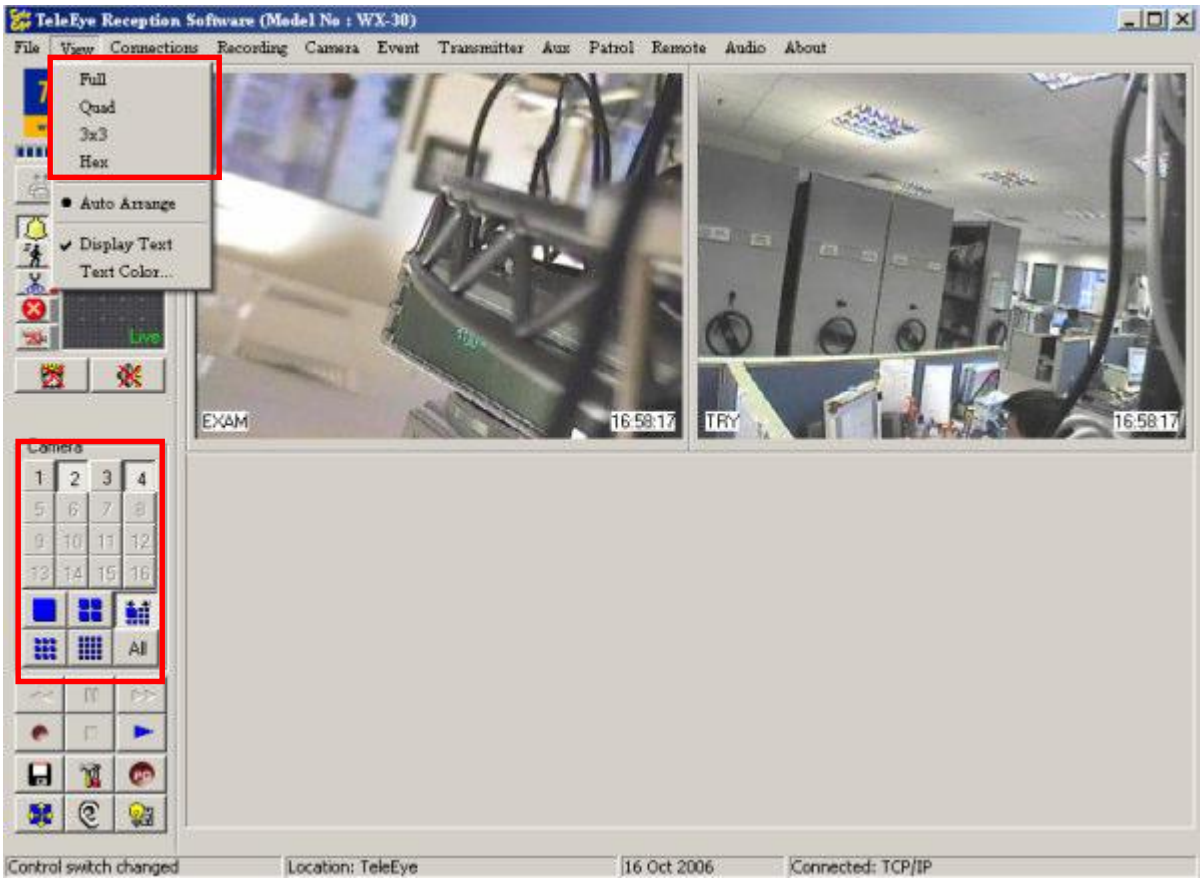


Fig 5.1a

Example Usage of Different Camera and Screen Mode

1. Full Size with Selected Cameras :

The full size displays only 1 camera at 640x480 pixels resolution. User can press button at the panel as shown on **Fig 5.1b**.

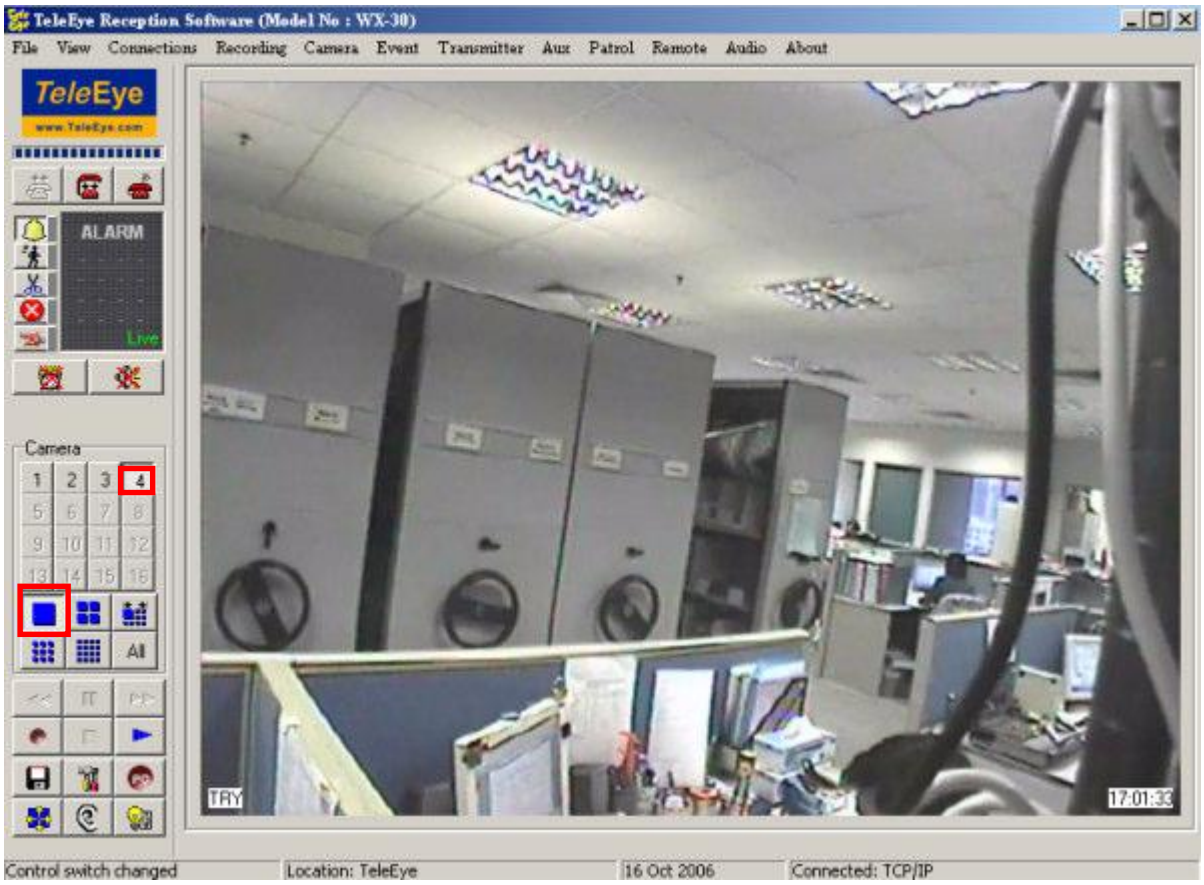


Fig 5.1b

2. Quarter Size with All cameras :

The quarter size can display at most 4 cameras with 320x240 pixels resolution. User can press button at the panel to select all 4 cameras as shown on **Fig 5.1c**.

Fig 5.1c

3. Quarter size with Selected Cameras :

If user chooses to display quarter size with some cameras at 320x240 pixels resolution, user can press button at the panel as shown on **Fig 5.1d**. The camera **without** selected will remain to display its last frame.

Fig 5.1d

4 . 3x3 Size with All Cameras :

The 3x3 size display 9 cameras with 320x240 pixels resolution each camera on the panel. User can press button at the panel to select all 9 cameras as shown on **Fig 5.1e**. User can press other camera buttons to select the cameras which he wants to display.

Fig 5.1e

5 . Hex Screen Mode with All Cameras :

The hex screen mode can display at most 16 cameras with 160x120 pixels resolution each camera on the panel. User can press button at the panel to select all 16 cameras as shown on **Fig 5.1f**. User can press other camera buttons to select the cameras which he wants to display.

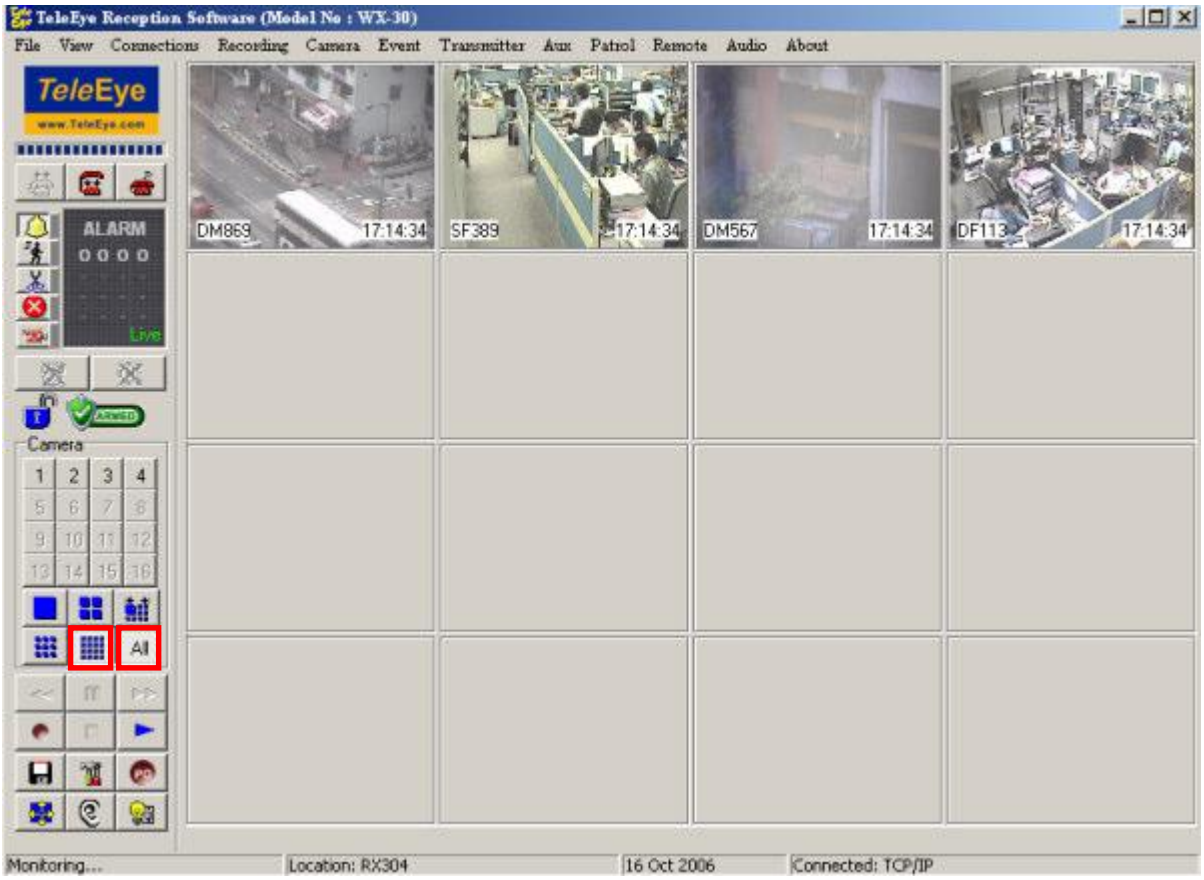


Fig 5.1f

6. Auto –Arrange Screen Mode with 3 Cameras :

Auto-arrange mode can arrange the cameras to display at suitable position. The camera may display in full, quarter or hex screen dependent on the number of camera displaying. For example, 3 cameras are installed to display in auto-arrange mode as shown on **Fig 5.1g**.

Fig 5.1g

5.2 Full Screen & Keep Aspect Ratio

With DirectX 9.0c(Apirl 2007) installed, ***Tele*Eye Reception Software WX-30** can display video in Full Screen Mode.

Click **[View]** → **[Full Screen (F11)]** to start full screen mode.

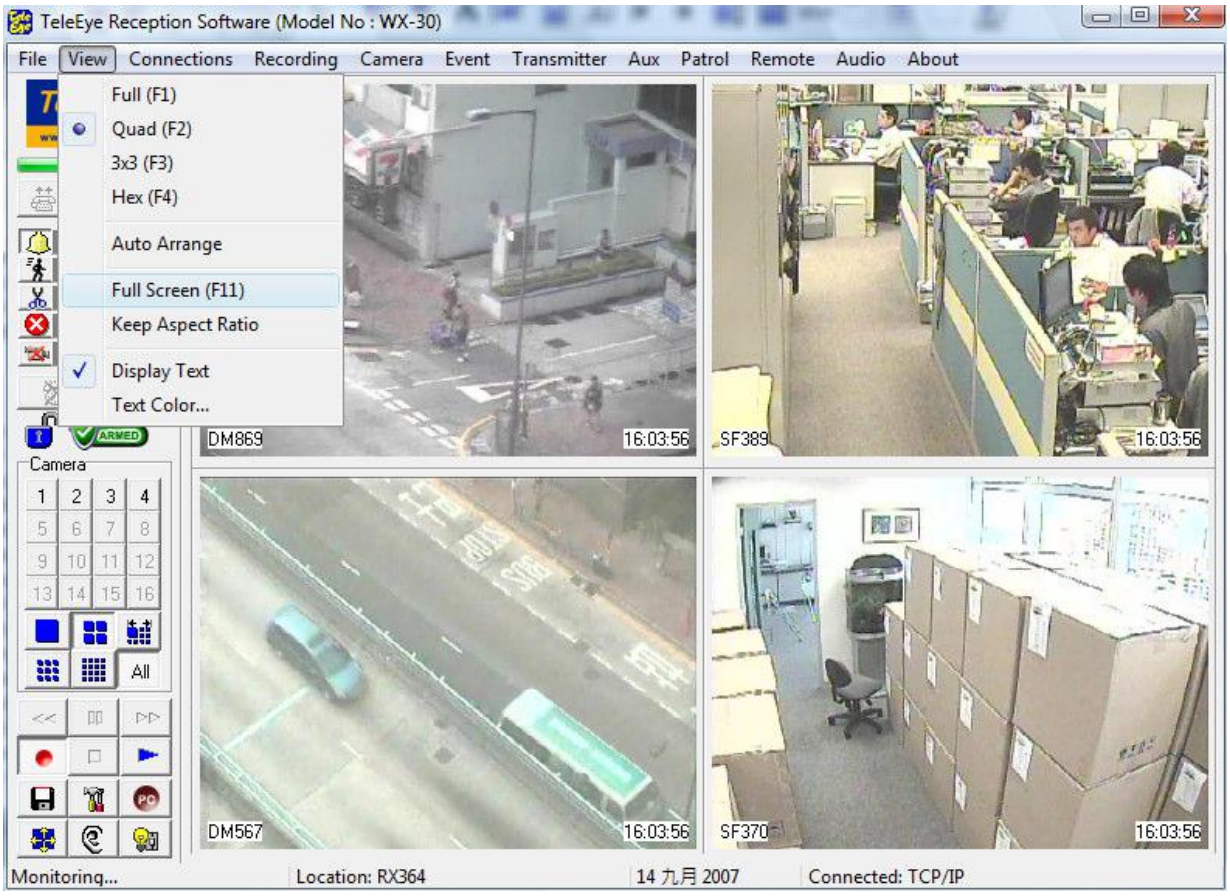


Fig 5.2a

In full screen mode, screen size can be changed by pressing **[F1]** (full size), **[F2]** (quad size), **[F3]** (3x3 size) and **[F4]** (hex size).

Fig 5.2b

To keep aspect ratio in full screen mode, click **[View]** → **[Keep Aspect Ratio]** before entering full screen mode.

Screen Mode & Camera

5.3 Text Display & Text Colour

***Tele*Eye Reception Software WX-30** allows displaying clock and camera name on the main panel inside the camera screen (default and recommended). However, user can enable or disable text display or change text colour.

Text Display Procedure :

Step 1 : Click **[View]** → **[Display Text]** option on the main panel to display text as shown on **Fig 5.2a**.

Fig 5.3a

Change Text Colour Procedure :

Fig 5.3b

Step 1 : Click **[View]** → **[Text Colour]** option on the main panel to change text colour. Press **[OK]** to complete the setting. The result is shown on **Fig 5.2a**.

5.4 Live Quality Setting

For firmware does not support individual camera's live quality settings:

Step 1 : In **{Transmitter Setup}** panel, click **[Video Settings]** → **[Video properties]** as **Fig 5.3a**.

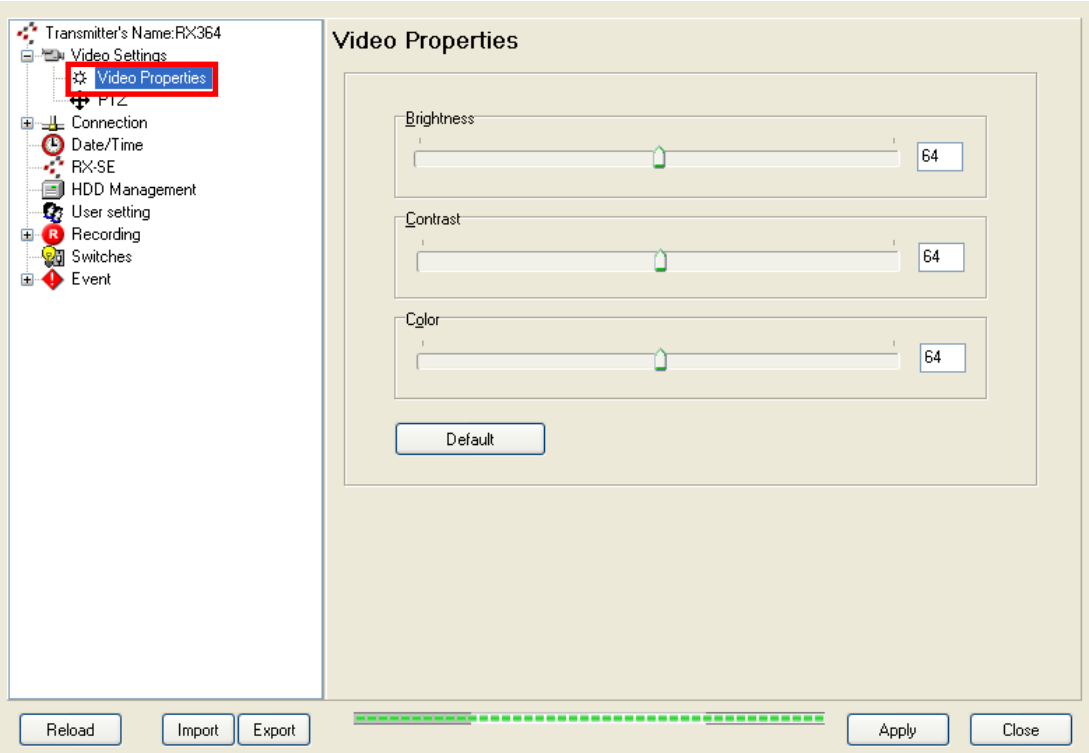


Fig 5.4a

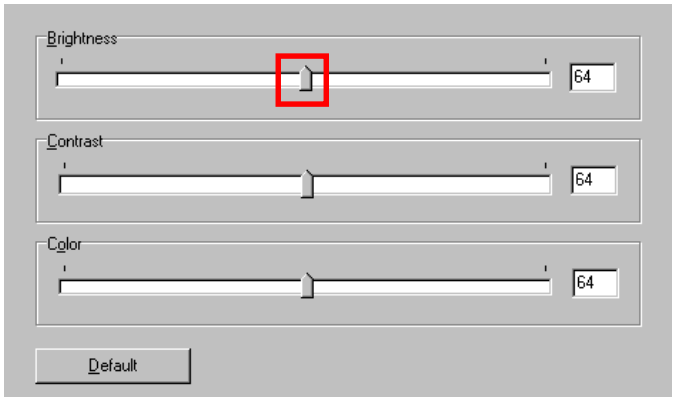


Fig 5.4b

Step 2 : Setup the value by moving the button.

Fig 5.4c

Step 2 : Click **[Apply]** to save the setting.

For firmware supports individual camera's live quality settings:

Step 1 : In **{Transmitter Setup}** panel, click **[Video Settings]** → **[Video properties]** as **Fig 5.3d**.

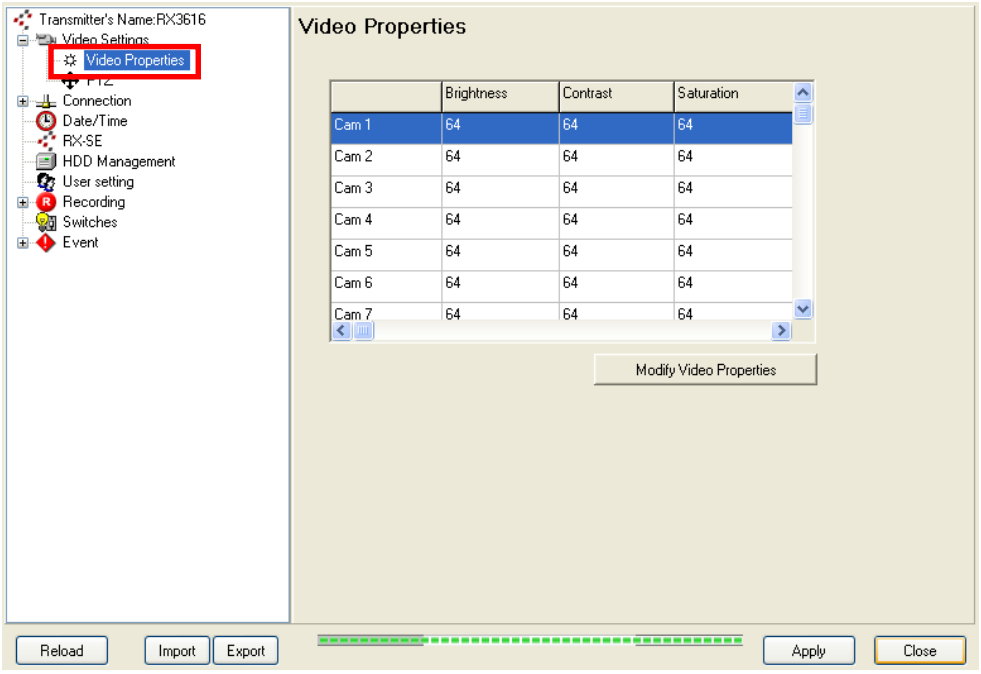
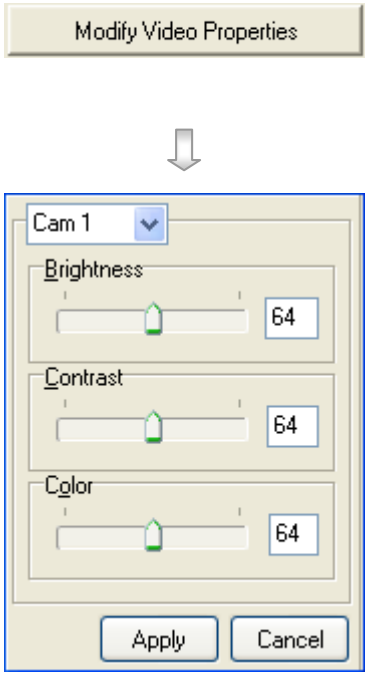


Fig 5.4d

Recording Setup



Step 2 : Click **[Modify Video Properties]**.

Step 3 : Modify the value by moving the buttons in the bars and click **[Apply]** button.

Section 6

Recording

6.1 Recording Setup

*Tele*Eye RX transmitter supports manual recording and event recording.

This section mainly discusses manually recording function. For event recording setup, please refer to P.96 of Section 8.2.2 : Recording.

Recording Mode

Manual recording provides 6 recording modes, **1 frame per second** (**1 FPS**), **2 frame per second** (**2 FPS**), **3 frame per second** (**3 FPS**), **4 frame per second** (**4 FPS**), **5 frame per second** (**5 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.

If event recording and manual recording are doing at the same time, recording mode will follow the one with **higher** frame rate.

Disk Mode

Cyclic disk mode can **erase the oldest recording data** in hard disk if the hard disk is full, and continue to record video. Fix disk mode need to **stop all recording** if hard disk is full.

Quality

This is the quality of the recorded video. The quality is divided into 5 levels (in ascending quality order) : **low**, **fair**, **medium**, **good** and **excellent**.

Resolution

This is the display resolution for the recorded video. **Full** is the resolution suitable for full size display. **Quad** is the resolution suitable for quarter size display. During playback, quad resolution video may have several noise in full size display mode.

Recording Setup Procedure :

Step 1 : Click **[Transmitter Settings]**  icon on the **{Main Panel}**. Enter the administrator password to pop up **{Transmitter Setup}** panel. Click **[Recording]** option as shown on **Fig 6.1a**.

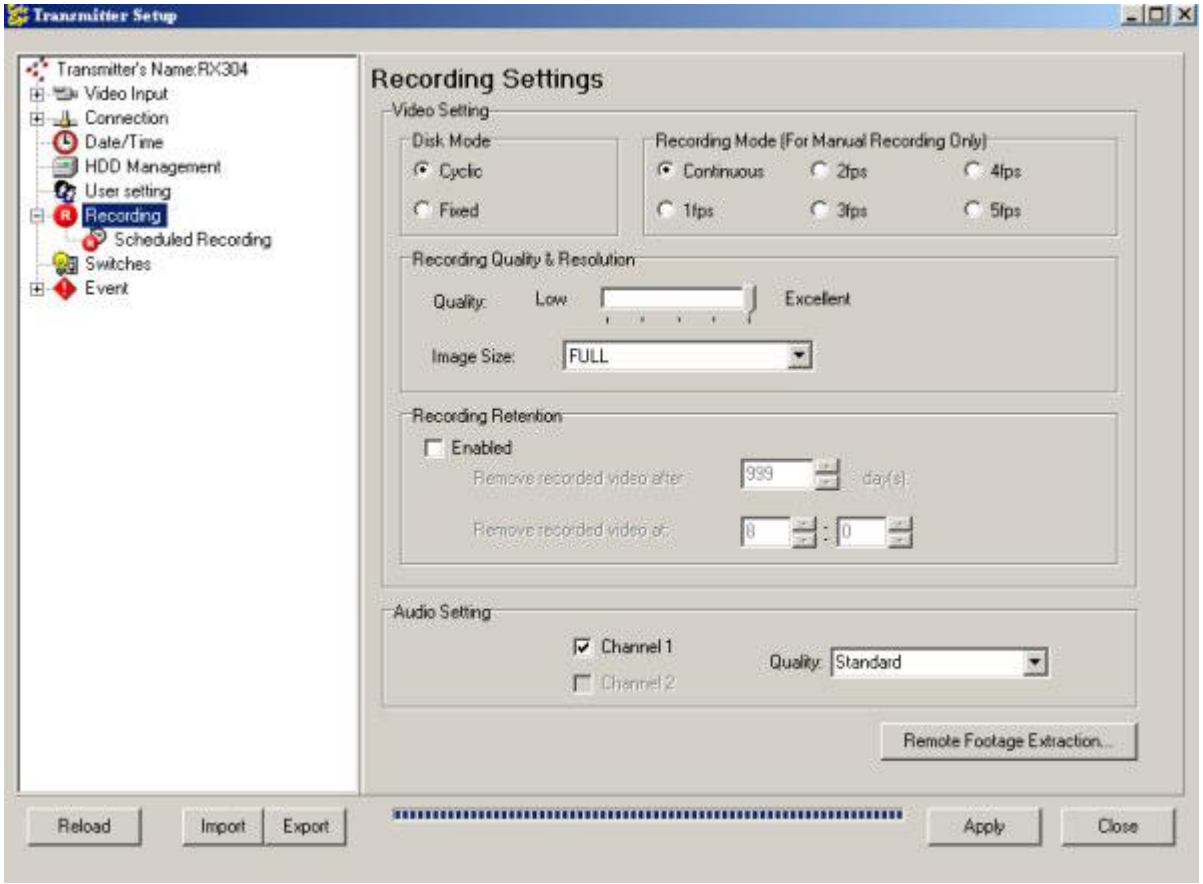


Fig 6.1a

Fig 6.1b

Step 2 : Click **[Cyclic]** or **[Fixed]** option for disk mode.

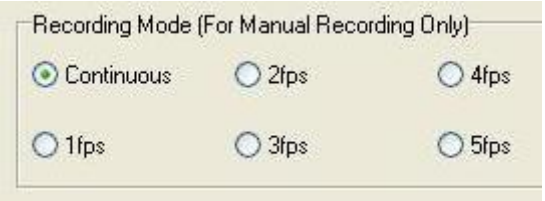


Fig 6.1c

Step 3 : Click **[Continuous]**, **[1fps]**, **[2fps]**, **[3fps]**, **[4fps]** and **[5fps]** for recording mode.

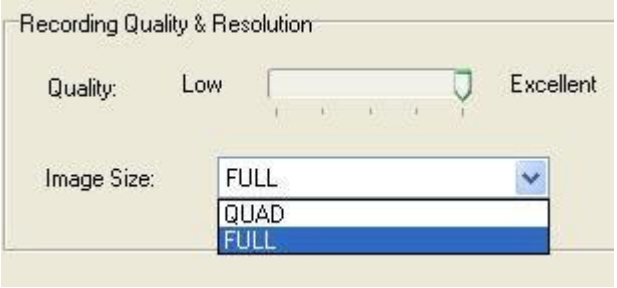


Fig 6.1d

Step 4 : Move the scroll bar to adjust **[Quality]**. Click **[FULL]** or **[QUAD]** option for image size. Press **[OK]** button to exit the panel.

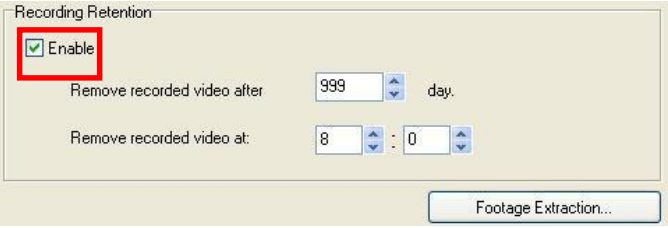


Fig6.1e

Step 5: Click **[Enable]** and set the day and time for removing the recorded video.

Fig 6.1f

Step 6 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

6.2 Manual Recording

Manual recording allows to record video at any time.

Manual Recording Procedure :

Step 1 : Click **[Record]**  icon on the main panel as shown on **Fig 6.2a**.

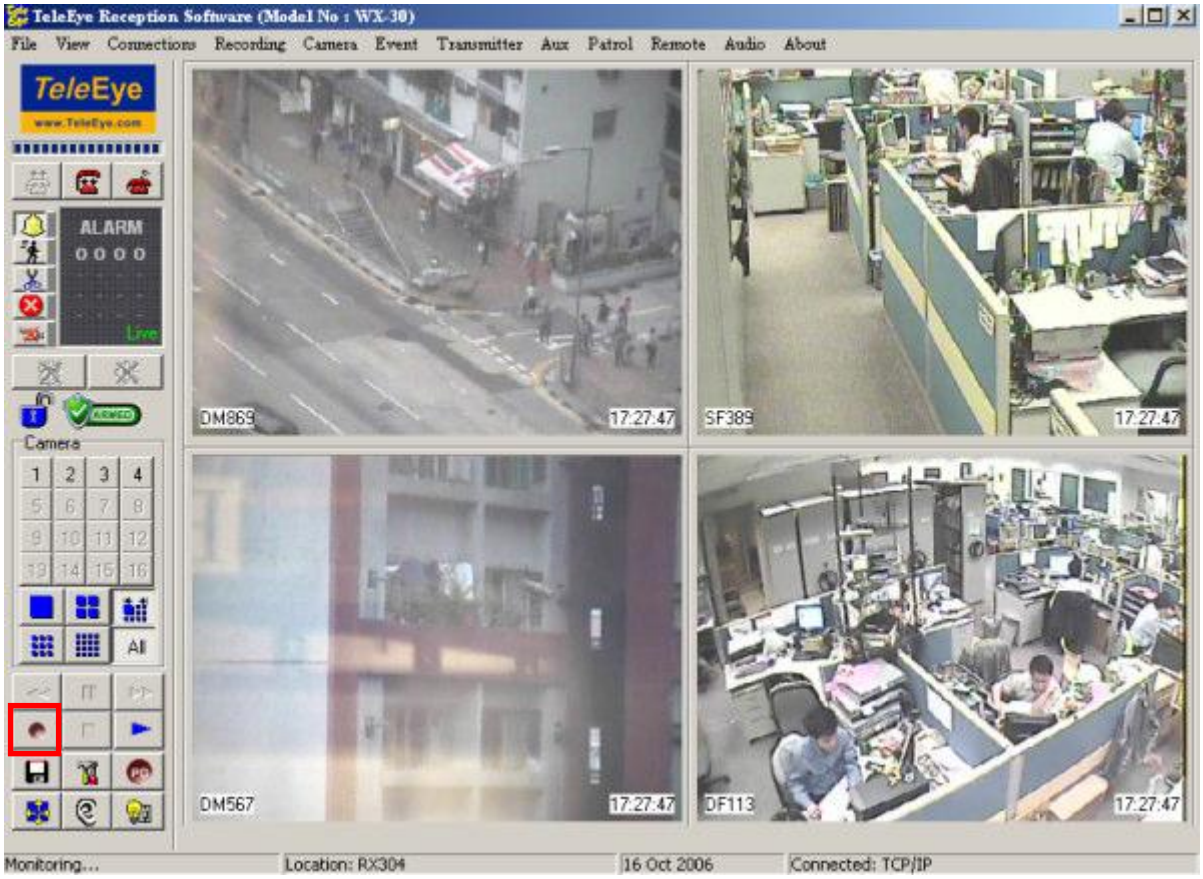


Fig 6.2a

Step 2 : Enter the administrator password.

Fig 6.2b

Fig 6.2c

Step 3 : **{RX Recording}** panel pop up. Click the checkbox to select the camera for recording. **[Select All]** is to select all cameras for recording.

Fig 6.2d

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

6.3 Footage Extraction

Extract footage for back up purpose. This function can back up the data stored in the transmitter into local hard disk. User only need to select the amount of memory and starting time for back up and the function will calculate the end time automatically.

Step 1: Click on **[Footage Extraction]** button (Fig 6.1a)

Fig 6.3a

Step 2 : **{Administrator Password}** panel will pop up. Input the administrator password and click **[OK]**.

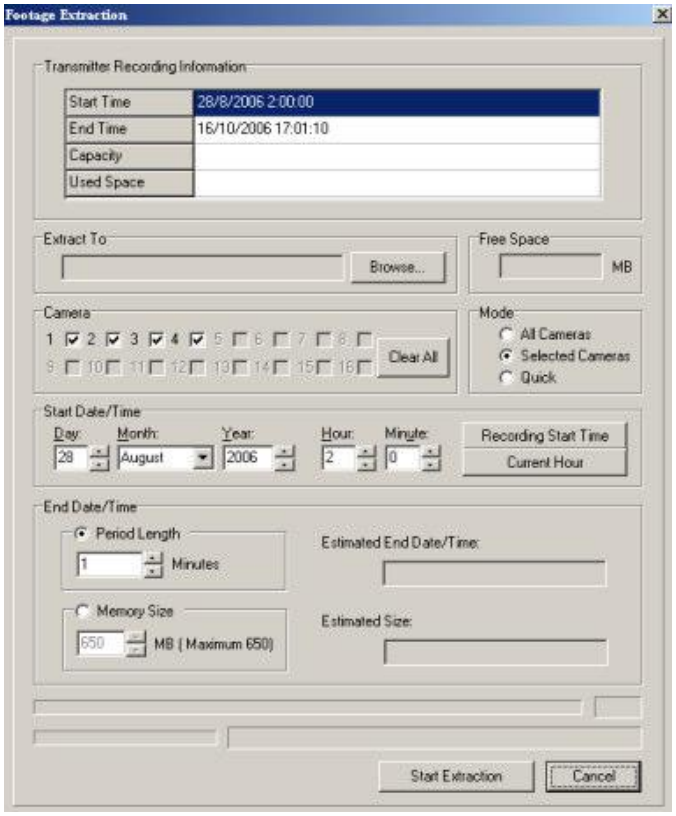
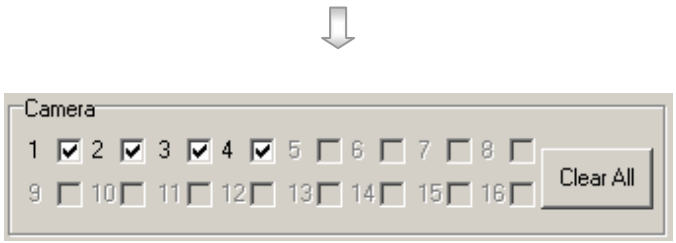


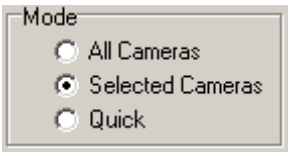
Fig 6.3b

Step 3 : **{Footage Extraction}** panel will pop up. Click **[Browse…]** to choose a folder for extraction.

Manual Recording



Step 4: In **{Footage Extraction}** panel, select camera(s) for footage extraction.



Step 5: Select mode for footage extraction.

Note: Lower frame rate for quick mode.

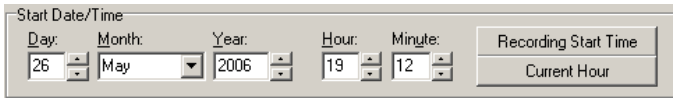


Fig 6.3c1

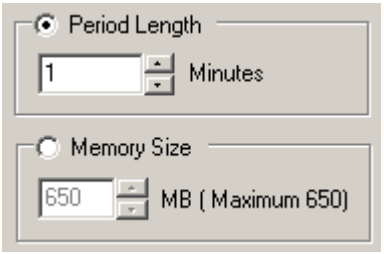


Fig 6.3c2

Step 6 : Input Start Date / Time and Period Length / Footage Size in the boxes provided.

(Note(Optional):

1. Click **[Recording Start Time]** to select start time of the recording log.
2. Click **[Current Hour]** to select current hour of the transmitter.)

Click **[Start Extraction]** to start.

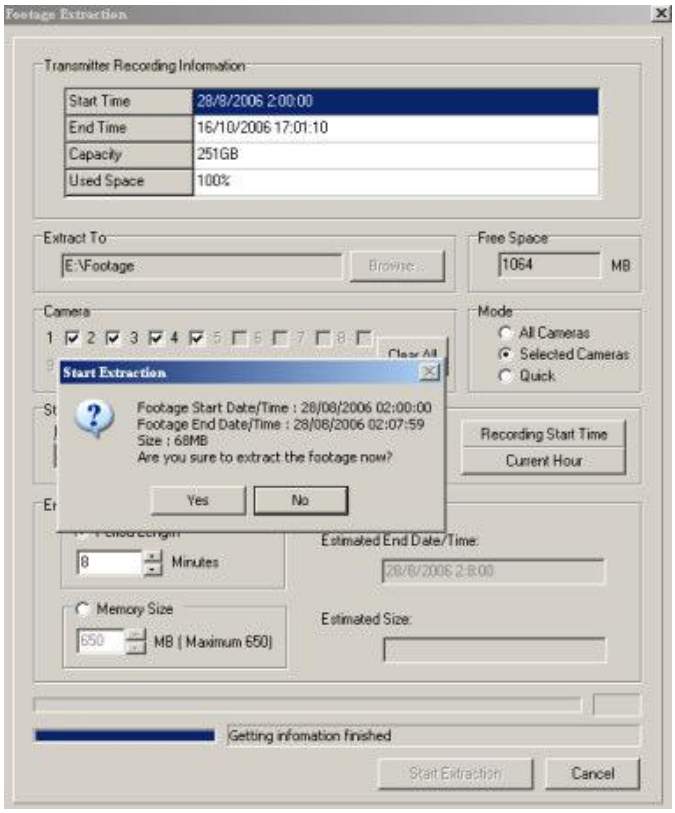


Fig 6.3d

Step 7 : A **{Format}** panel will pop up. Click **[Yes]** to continue

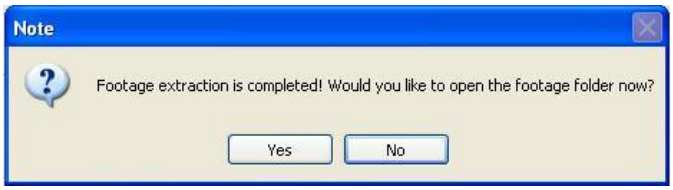


Fig 6.3e

Step 8 : When the extraction is finished, **{Note}** will pop up. Click **[Yes]** or **[No]** to choose open the footage folder or not.

☞ Backup will not be successful if --

1. Two sites carrying out backup process in the remote site at the same time.
2. Recording retention process carrying out at the same time.

6.4 Audio Recording

Step 1 : In **{Transmitter Setup}** panel, click **[Recording]** as **Fig 6.4a**.

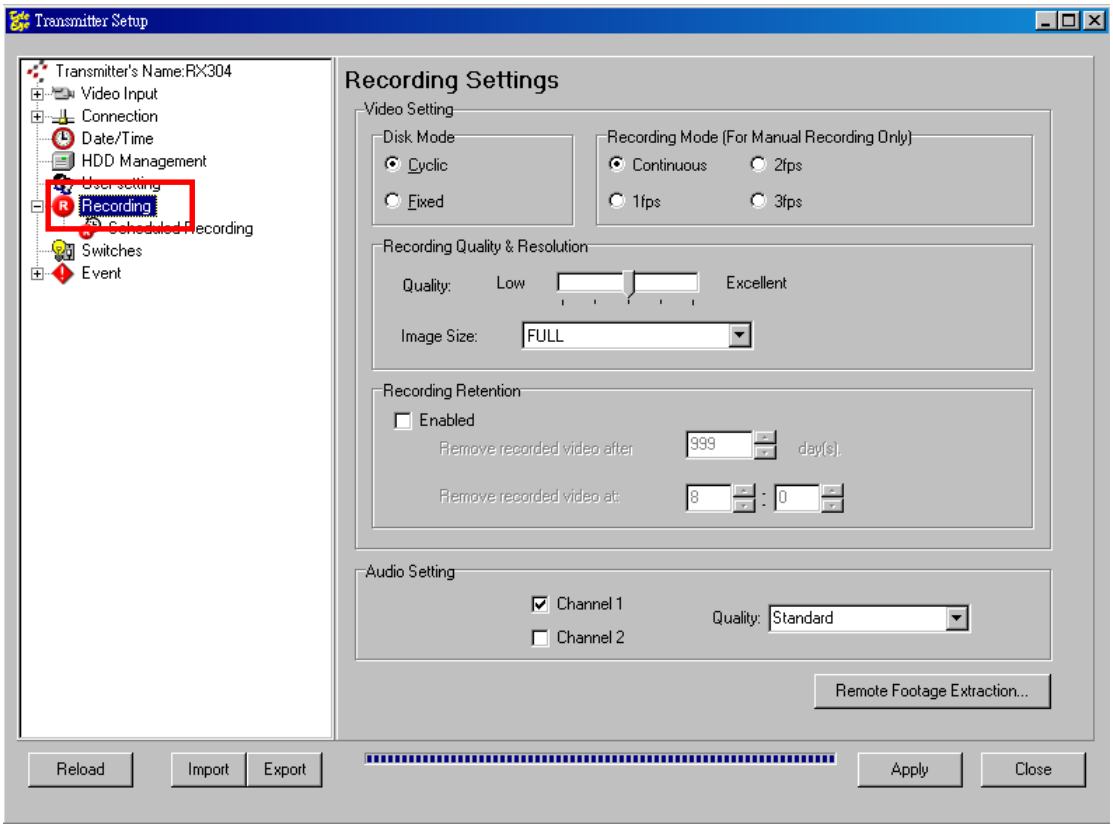


Fig 6.4a

Fig 6.4b

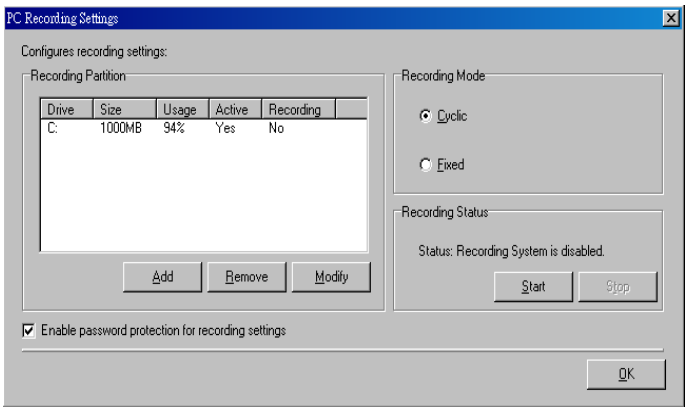
Step 2 : Click the suitable channel. Four cameras for Channel 1. 8/16 cameras for channel 2.

Fig 6.4c

Step 3 : Click **[Apply]** to save the setting

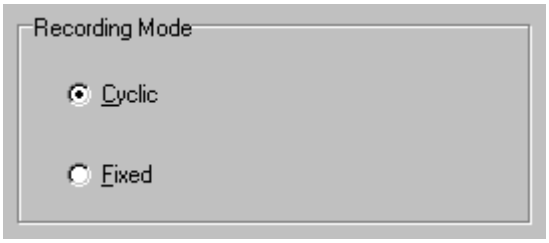
Manual Recording

6.5 PC Recording Setup



Step 1 : Click **[Recording]** → **[PC Recording]** → **[Setting]** option to setup the PC recording as **Fig 6.5a**.

Fig 6.5a



Step 2 : In Recording Mode, Click **[Cyclic]** or **[Fixed]** to setup the recording mode.

Fig 6.5b

Step 4 : Click **[OK]** button to save the setting of the Recording Mode

Fig 6.5c

☞ You can select enable protection for recording settings at the bottom of the table.

Section 7

Playback

7.1 Start Playback

If user recorded some video by *Tele*Eye RX, user can playback the video through the playback log in **{Search Playback}** panel.

Playback Procedure :

Step 1 : Click **[Playback]**  icon on the main panel as shown on **Fig 7.1a**.

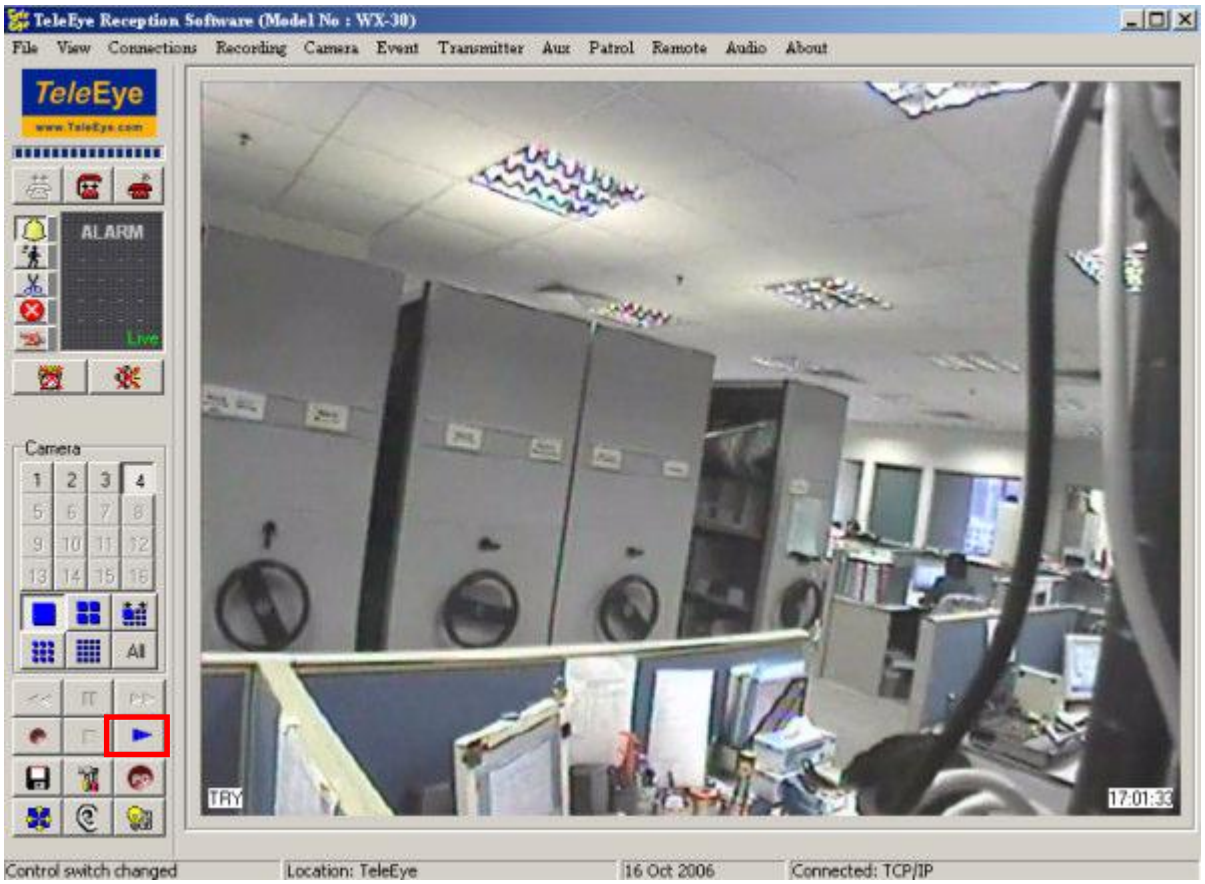


Fig 7.1a

Start Playback

Step 2 : **{Search Playback}** panel pop up as shown on. User can find out event occur at which time interval and select the record video to watch as shown on **Fig 7.2b**. There are three event type: Alarm Sensor, Motion Detection and Video Loss.

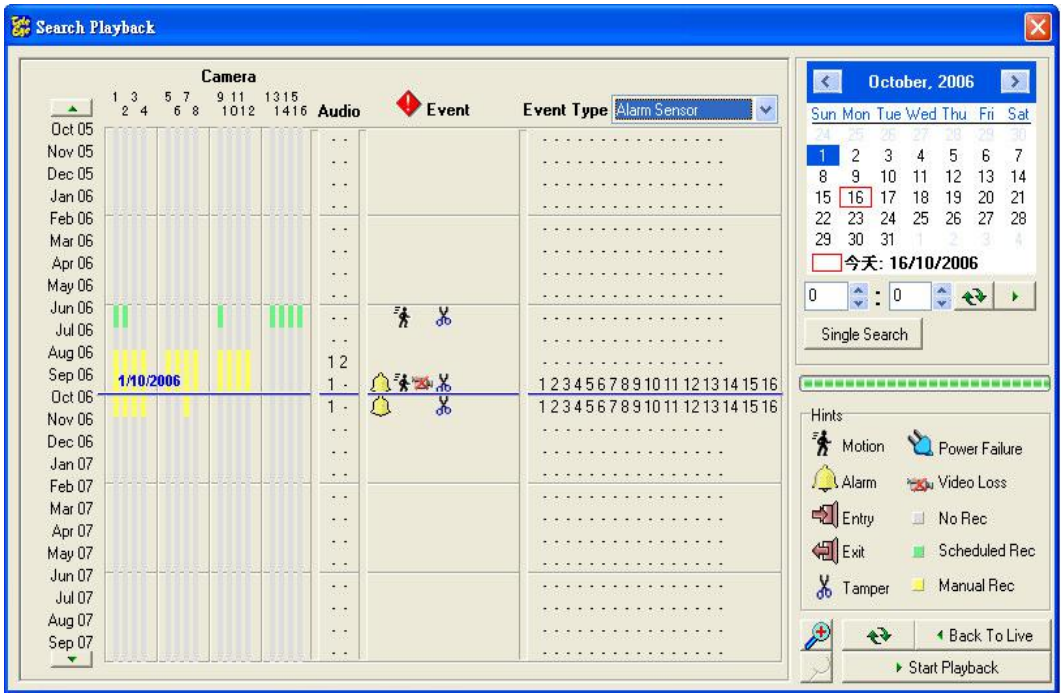


Fig 7.2b

The table shows the meanings on the playback log icons :

Icon	Meaning
	Alarm has been triggered.
	Entry has been triggered.
	Exit has been triggered.
	Motion has been triggered.
	Video loss has been triggered.
	Arm/disarm input, security switch, alarm, or system has been tampered.
	Power failure has been triggered.

Start Playback

	There is video record at that time interval.
	There is NO video record at that time interval.

The number on the icon means the channel of that event triggered.

Fig 7.2c

Step 3 : User can select the video by using date search. Select the date and the time, then the playback log will display the log on that date. Or, directly press **[Play]**  button to playback that video. Press **[Reload]**  button to refresh the log.

Start Playback

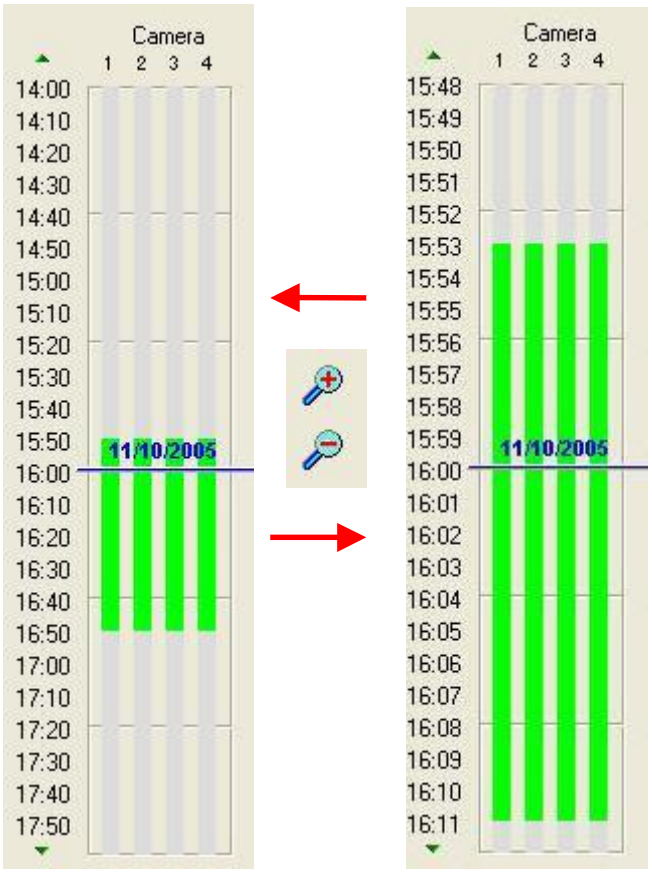


Fig 7.2d

Step 4 : Select the time scale by using **[Zoom]** icon to view the log clearly in order to select more precise the video. Press **[Up]** or **[Down]** button to move the time bar up or down in order to view other log.

Fig 7.2e

Step 5 : Press **[Start Playback]** button to start the video playback.

Step 6 : **{Search Playback}** panel disappear and return to the main panel and start playback and display **[Playback]** as shown on **Fig 7.2f**.

Start Playback

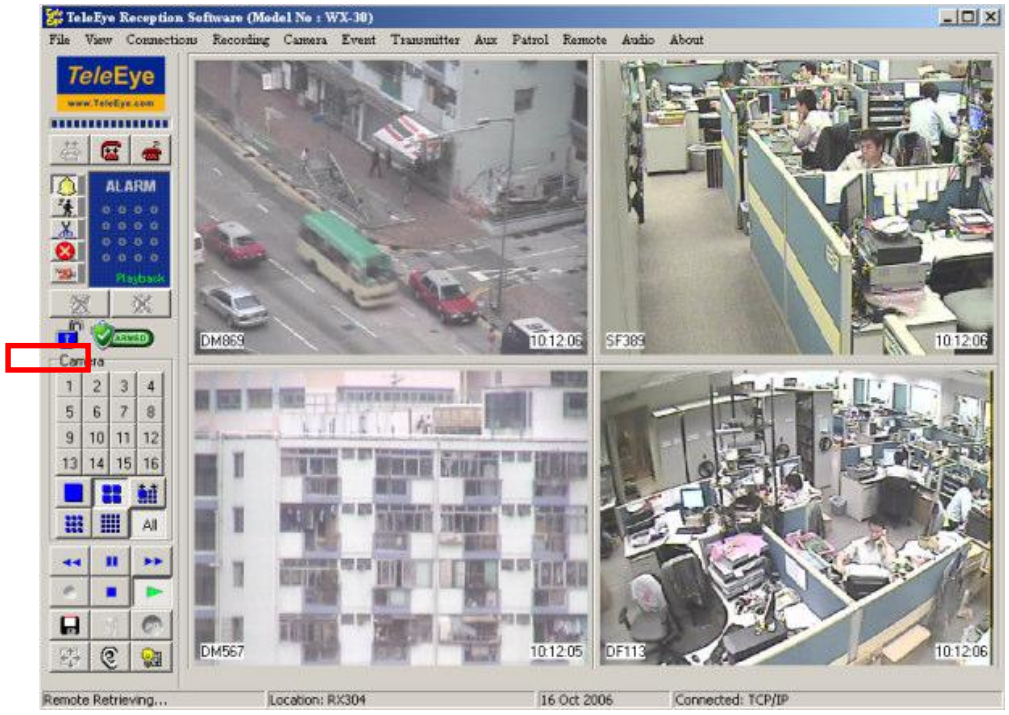


Fig 7.2f

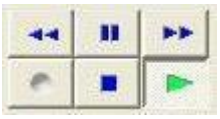


Fig 7.2g

Step 7 : Use the playback control buttons to control the playback.

For detail playback control method, please refer to P.60 of Section 7.2 : Playback Control

During playback, **[Record]** icon is dimmed, it cannot display the record status to user.

Fig 7.2h

Step 8 : Press **[Stop]** icon to stop the playback. **{Search Playback}** panel pop up automatically. User can select another video to playback or press **[Back To Live]** button to return to the main panel.

Start Playback

7.2 Playback Control

During playback, user can control the speed of playback, camera and screen mode according to user's need.

The screen mode and camera control method during playback is same as live monitoring, please refer to P.41 of Section 5.1 : Screen Mode and Camera.

Normal Play

Play video with normal 1x speed.

Forward

Play video with fast speed.

Fast Forward

Play video with very fast speed if user press **[Forward]** button 1 more time.

Backward

Play video by 1 minute backward.

Pause

Pause the video playback. After pausing the video for 1 minute, the software will continue to playback automatically.

Step Forward

Play video forward per frame if user press **[Forward]** button one time.

Step Backward

Play video backward by 1 minute if user press **[Backward]** button one time.

Stop

Stop to play the video and go back to playback log.

Playback Control

7.3 Multiple Search and Playback

Step 1 : Press **[play]** button in the main panel as **Fig 7.3a**.

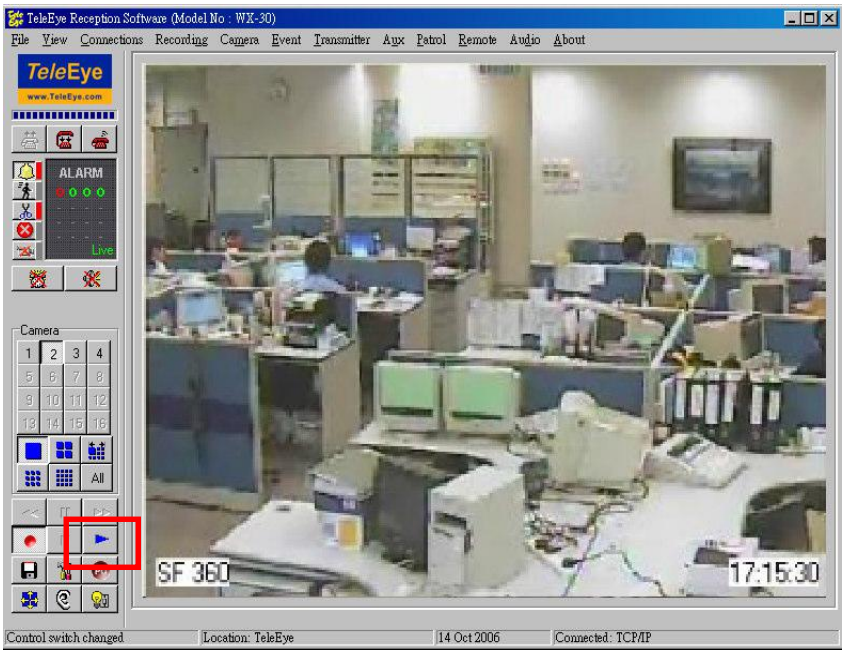


Fig 7.3a

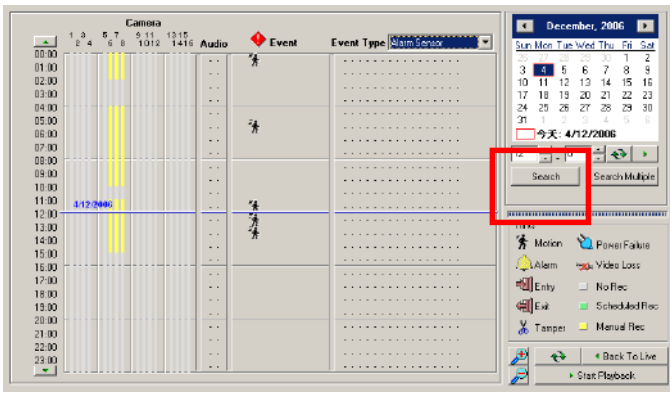


Fig 7.3b

Step 2 : Click **[Multiple Search]** in the Search Playback window..

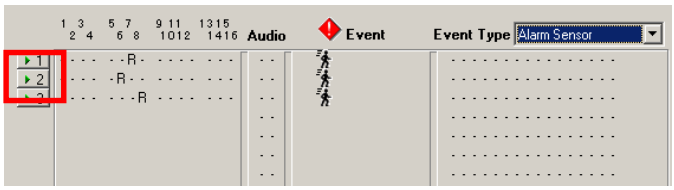


Fig 7.3d

Step 4 : Result will show on the left hand side. Click **[Play]** for playback.

Playback Control

Fig 7.3e

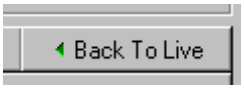


Fig 7.3f

Step 5 : Search result will show on the main panel. Press the **[Stop]** button on the main panel to return to search back window.

Step 6 : Click **[Back to Live]** button to return to main panel.

Section 8

Event Handling

8.1 Event

*Tele*Eye RX video transmitter supports 7 type of events.

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

User can know what situation occurs at the surveillance area if these events are triggering or have been triggered. The event purpose and detail setting procedure will talk in this section.

Event Setup Procedure :

Fig 8.1a

Step 1 : Click **[Transmitter Settings]**  icon on the **{Main Panel}**. Enter administrator password.

Event

Step 2 : **{Transmitter Setup}** panel pop up and click **[Event]** option to enter event menu.

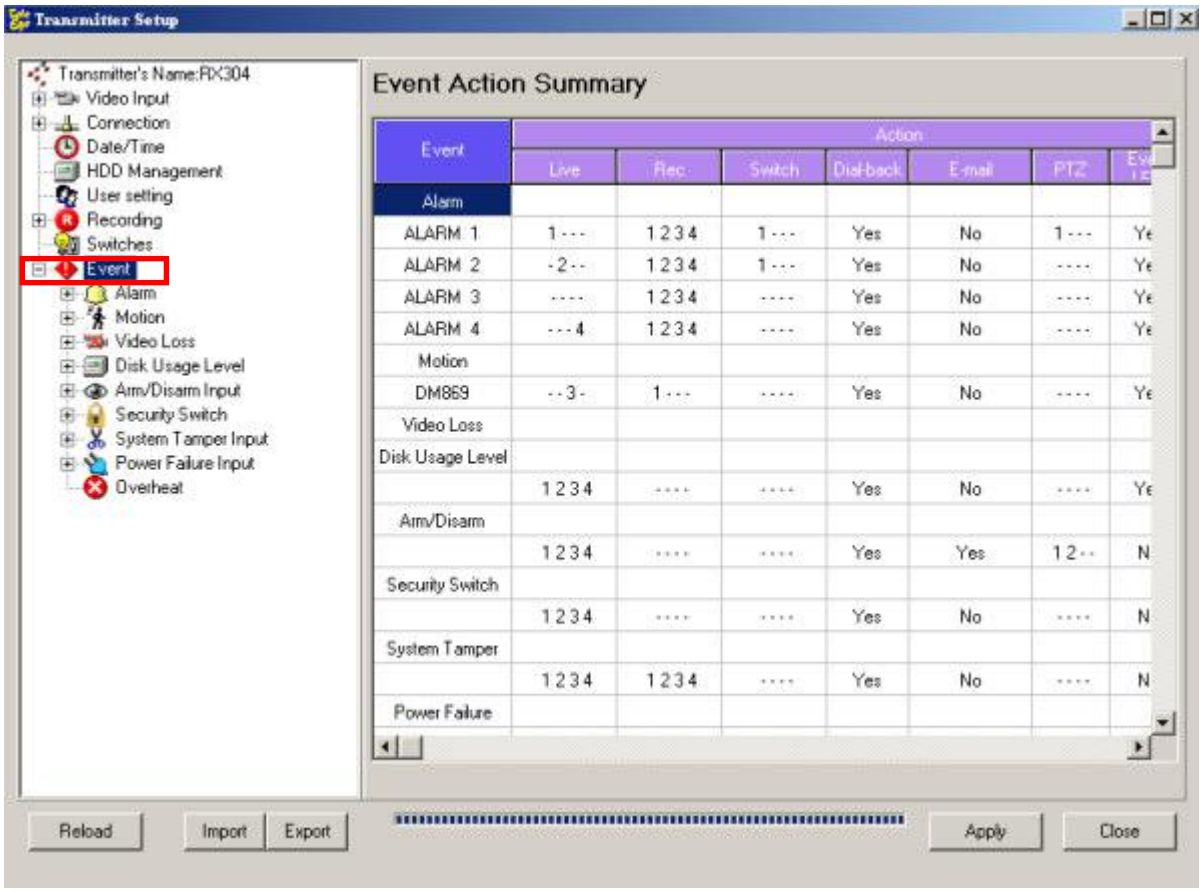


Fig 8.1b

The event action setting is summarized in **{Event Action Summary}** panel on **Fig8.1b**.

Event

8.1.1 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.

For further details, please refers to P.167 of Section 14.2 : *Tele*Eye RX with Tamper Circuit and External Resistor

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.

Arm / Disarm

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.69 of Section 8.1.3 : Alarm.

Arm/Disarm Setup Procedure :

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → **[Arm/Disarm Input]** option to pop up **{Arm/Disarm Input Settings}** panel as **Fig 8.1.1a**.

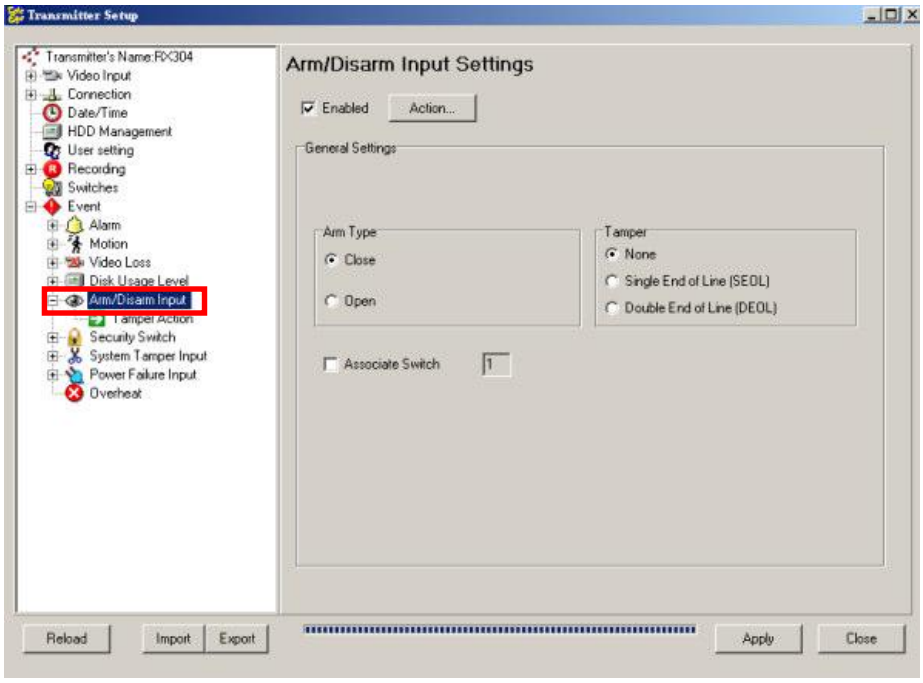


Fig 8.1.1a

Arm / Disarm

Fig 8.1.1b

Step 2 : Click **[Enabled]** checkbox to enable arm/disarm input.

Fig 8.1.1c

Step 3 : Click **[Open]** or **[Close]** option for arm type.

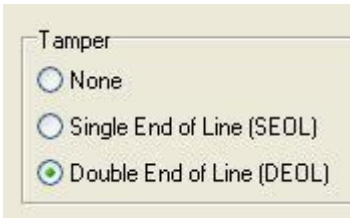


Fig 8.1.1d

Step 4 : Click **[None]**, **[SEOL]** or **[DEOL]** option for tamper type.

Fig 8.1.1e

Step 5 : Click **[Associate Switch 1]** checkbox to enable associate switch 1 for arm/disarm input.

☞ If arm/disarm input associate switch 1 is enabled, the switch 1 action for all other events will be disabled.

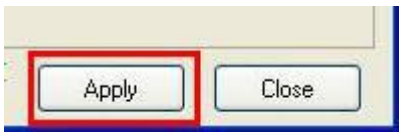


Fig 8.1.1f

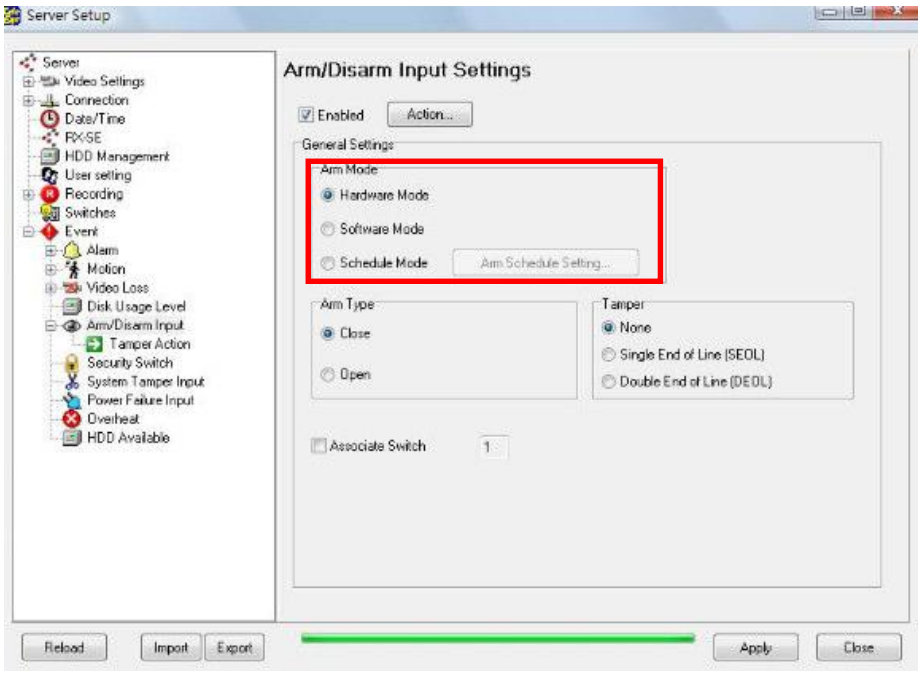
Step 6 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

Arm/Disarm mode

There are three Arm/Disarm modes– hardware, software and schedule mode.

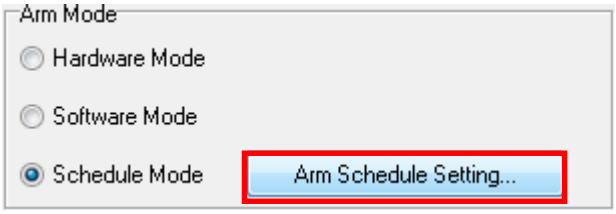
Arm/Disarm Setup Procedure :

Step 1 : In **{Server settings}** panel, click **[Event]** → **[Arm/Disarm Input]** option to open **{Arm/Disarm Input Settings}** tab as shown in **Fig 8.1.1a**.

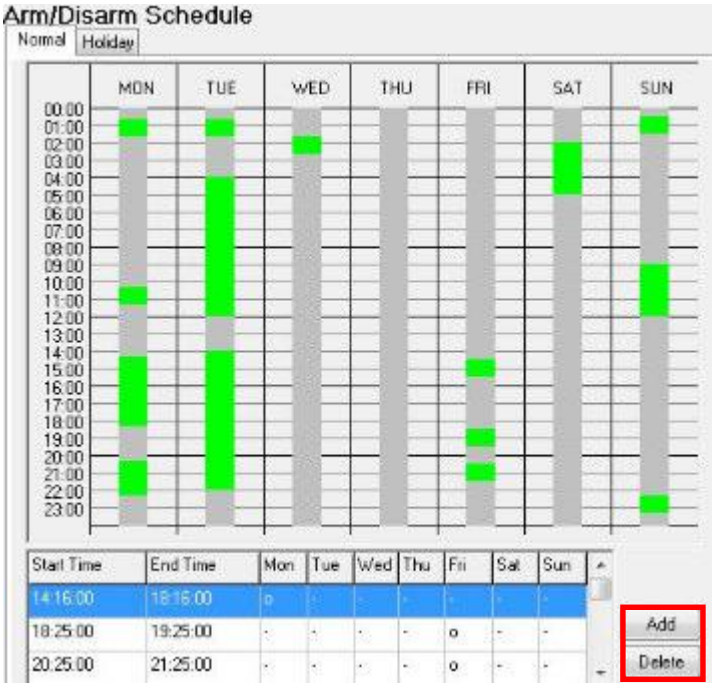


Step 2 : Select Arm mode in **[Arm Mode]** radio button

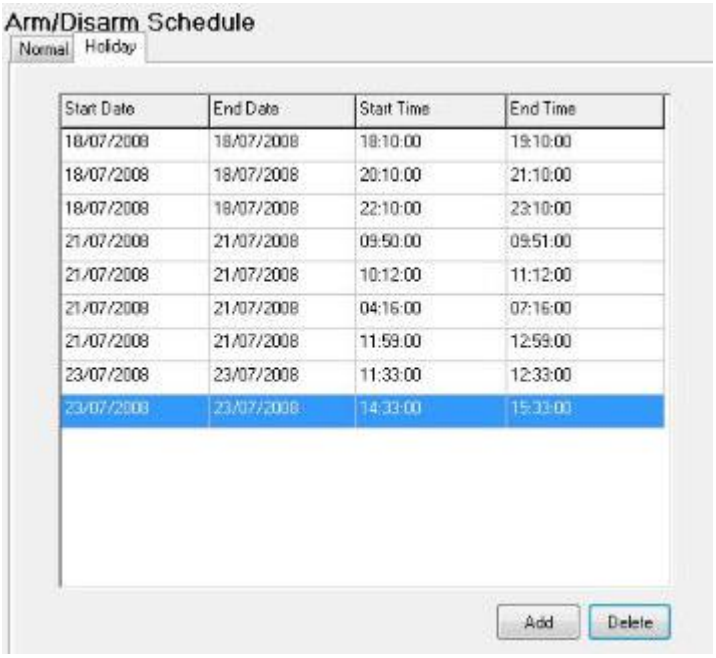
Step 3 : For Schedule Arm mode, click **[Arm Schedule Setting...]** for Schedule Arm mode settings.



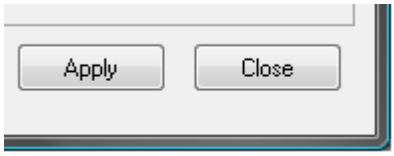
Step 4 : For Normal Schedule Arm mode, click **[Add]** button to select time period or click **[Delete]** to remove selected period.



Step 5 : For Holiday Schedule Arm mode, click **[Add]** button to select time period or click **[Delete]** to remove selected period.



Step 6 : Click **[Apply]** on **{Server settings}** panel to save the setting to the server.



Arm / Disarm

8.1.2 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.

For further details, please refers to P.167 of Section 14.2 : *Tele*Eye RX with Tamper Circuit and External Resistor

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 example, please refers to P.69 of Section 8.1.3 : Alarm.

Security Switch

Security Switch Setup Procedure :

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → **[Security Switch]** option to pop up **{Security Switch Settings}** panel as **Fig 8.1.2a**.

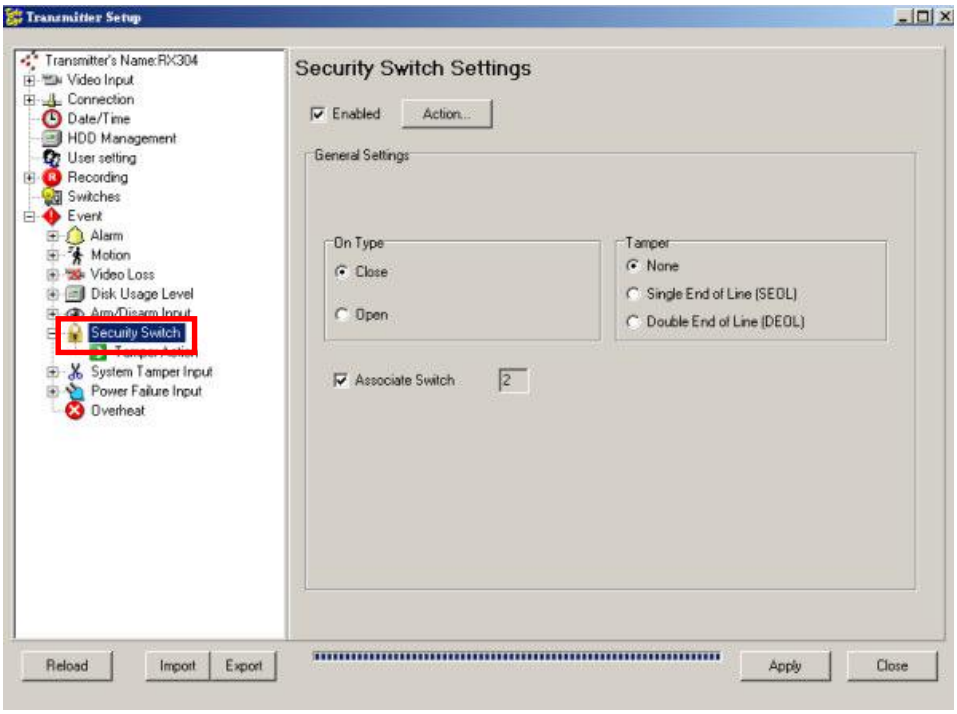


Fig 8.1.2a

Fig 8.1.2b

Step 2 : Click **[Enabled]** checkbox to enable security switch.

Fig 8.1.2c

Step 3 : Click **[Open]** or **[Close]** option for on type.

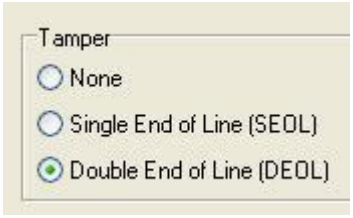


Fig 8.1.2d

Step 4 : Click **[None]**, **[SEOL]** or **[DEOL]** option for tamper type.

Fig 8.1.2e

Step 5 : Click **[Associate Switch 2]** checkbox to enable associate switch 2 for security switch.

☞ If security switch associate switch 2 is enabled, the switch 2 action for all other events will be disabled.

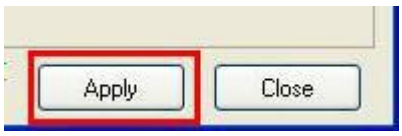


Fig 8.1.2f

Step 6 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.1.3 Alarm

Alarm

It is an input to the transmitter from external alarm sensors. Alarm can be used to detect many events 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 choices of none, SEOL, DEOL.

For further details, please refers to P.167 of Section 14.2 : *Tele*Eye RX with Tamper Circuit and External Resistor

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.

Example of Entry/Exit Zone WITH Security Switch Usage

For Entry Zone :

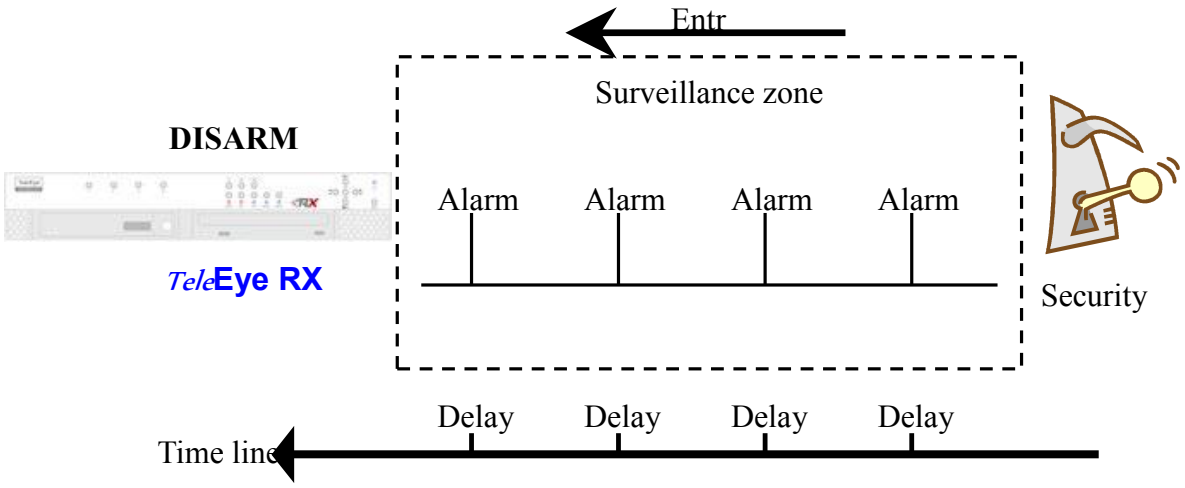


Fig 8.1.3a

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.

For Exit Zone :

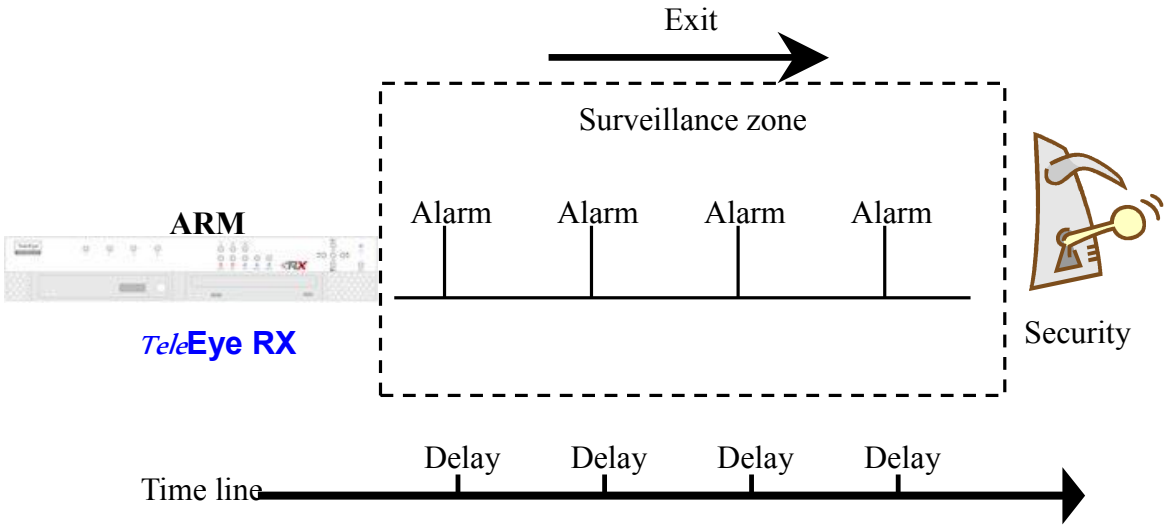


Fig 8.1.3b

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.

Alarm

Example of Entry/Exit Zone WITHOUT Security Switch Usage

For Entry Zone :

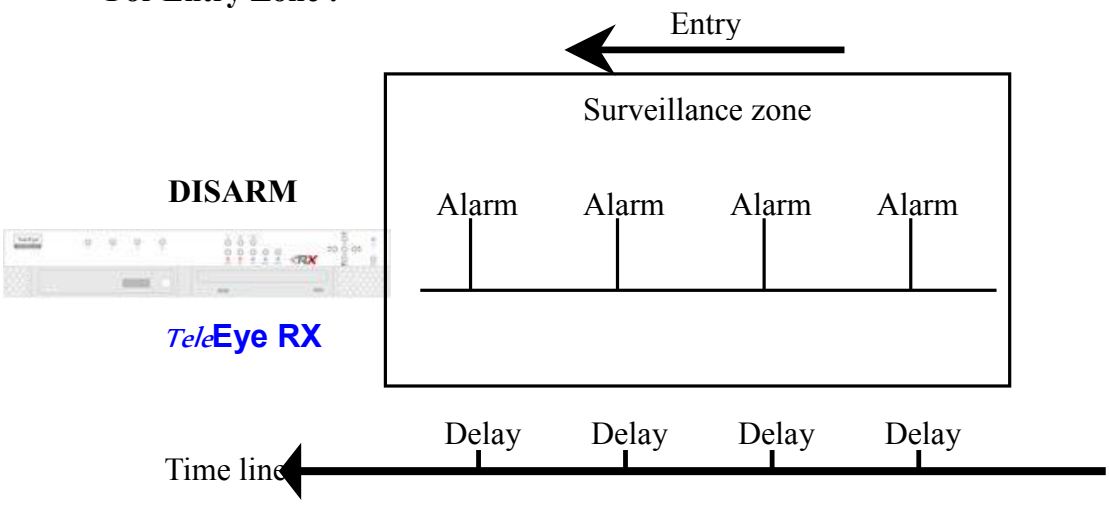


Fig 8.1.3c

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.

Alarm

For Exit Zone :

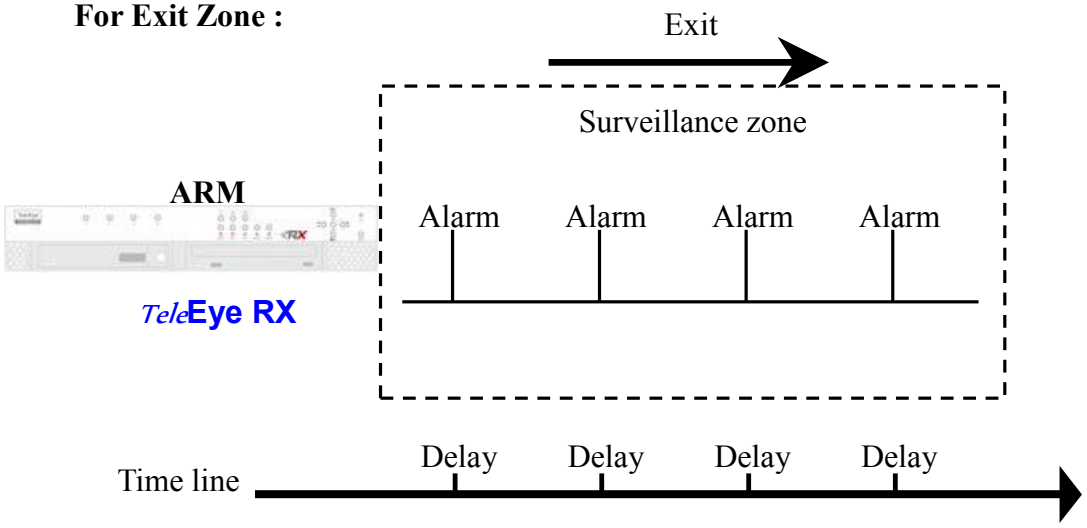


Fig 8.1.3d

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.

Alarm

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

Alarm

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

Alarm

Alarm Setup Procedure :

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → **[Alarm]** → **[Sensor (No.)]** option to pop up **{Sensor (No.) Setting}** panel as **Fig 8.1.3e**.

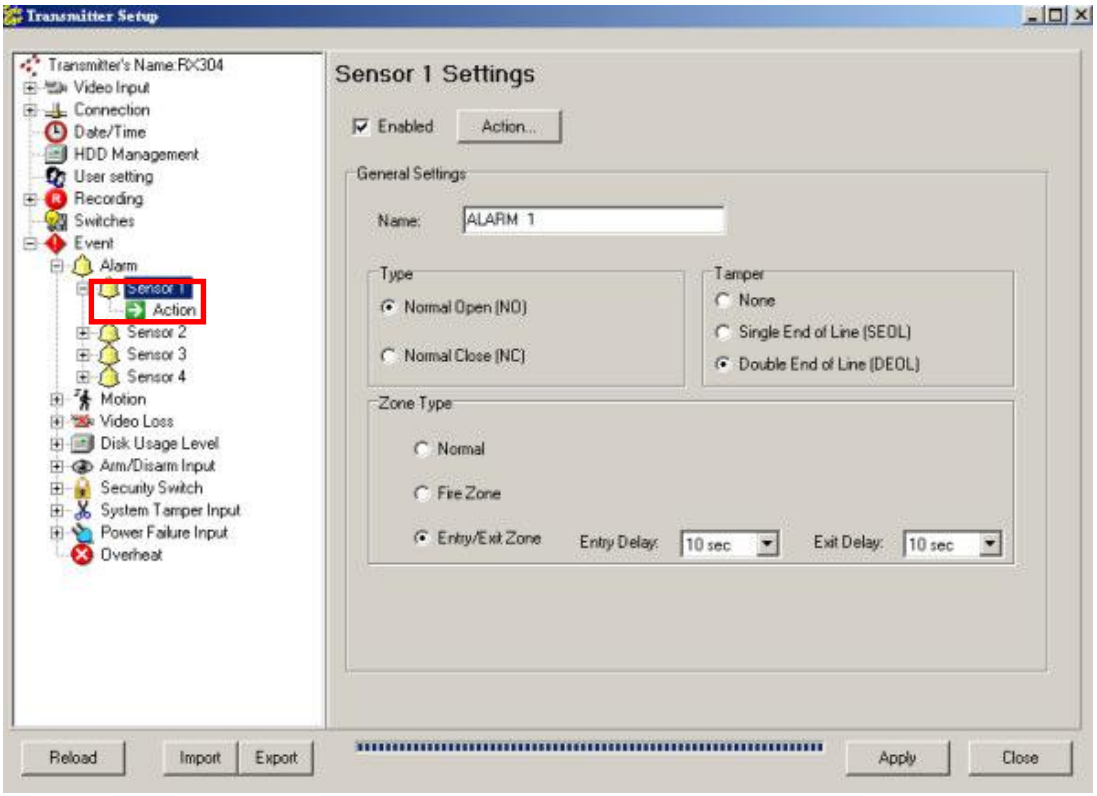


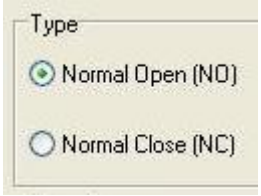
Fig 8.1.3e

Fig 8.1.3f

Step 2 : Click **[Enabled]** checkbox to enable the alarm sensor.

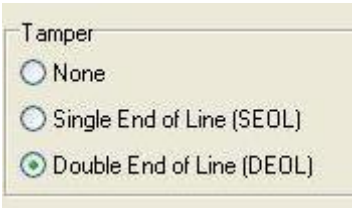
Fig 8.1.3g

Step 3 : Edit the name of the alarm sensor.



Step 4 : Click **[Open]** or **[Close]** for sensor type option.

Fig 8.1.3h



Step 5 : Click **[None]**, **[SEOL]** or **[DEOL]** option for tamper type.

Fig 8.1.3i

Step 6 : Click **[Normal]**, **[Fire Zone]** or **[Entry/Exit Zone]** option for zone type. If **[Entry/Exit Zone]** is selected, please select **[Entry Delay]** and **[Exit Delay]** for the entry/exit zone.

Fig 8.1.3j

Step 7 : After setting all alarms, user can view the alarm setting summary in **{Transmitter Setup}** panel by clicking **[Event]** → **[Alarm]** option to pop up **{Alarm Setting Summary}** panel as **Fig 8.1.3k**

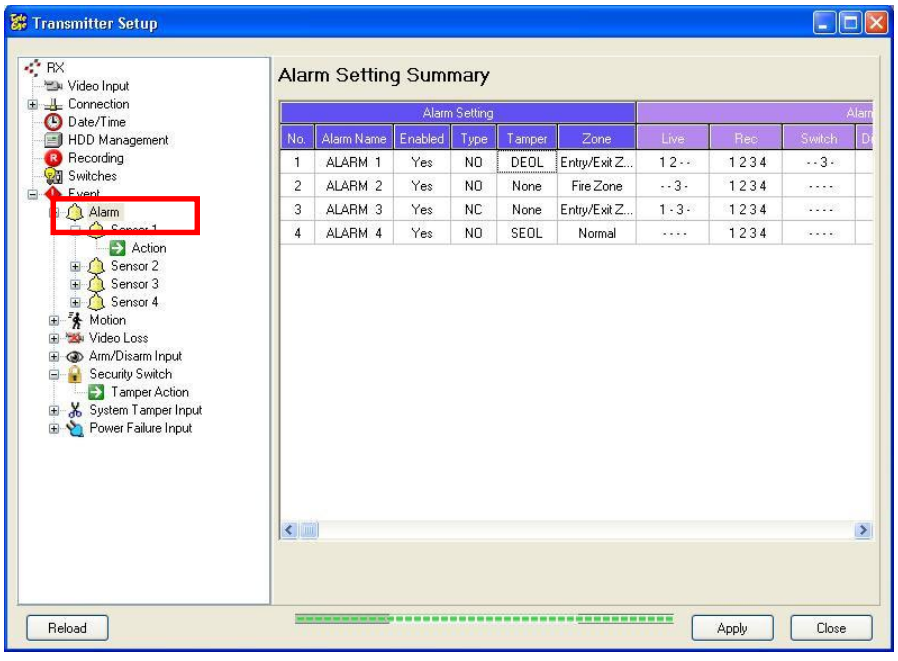


Fig 8.1.3k

Alarm

Fig 8.1.3l

Step 8 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

Setup through Alarm Setting Summary Procedure :

User can use **{Alarm Setting Summary}** panel as a quick way to do the alarm settings.

Fig 8.1.3m

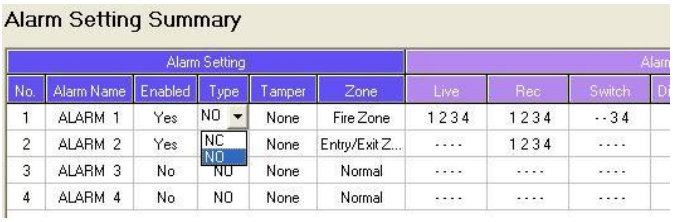


Fig 8.1.3n

Fig 8.1.3o

Fig 8.1.3p

Step 1 : On the **{Alarm Setting Summary}** panel, user can click the boxes under **[Enabled]**, **[Type]**, **[Tamper]**, **[Zone]** or those actions, in the summary to change the alarm enable, alarm type, tamper type, zone type and other action options for the alarm event as shown on **Fig 8.1.3m ~ Fig 8.1.3p**.

OR

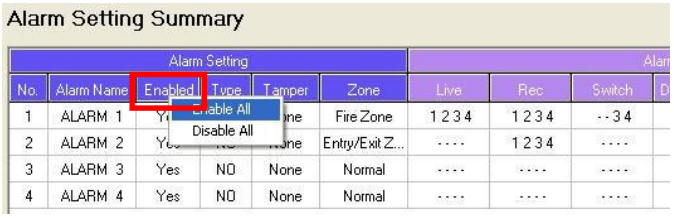


Fig 8.1.3q

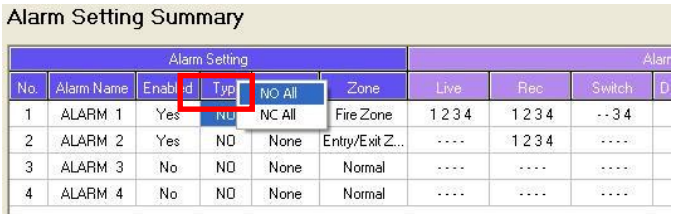


Fig 8.1.3r

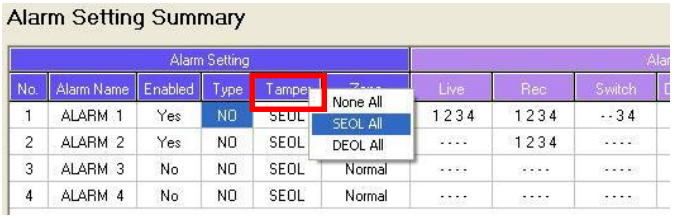


Fig 8.1.3s

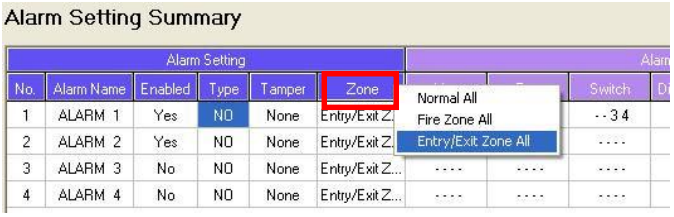


Fig 8.1.3t

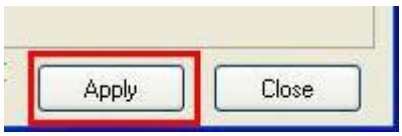


Fig 8.1.3u

Step 1 : Or, user can click the **[Enabled]**, **[Type]**, **[Tamper]** or **[Zone]** to choose all alarm for the same alarm setting as shown on **Fig 8.1.3q ~ Fig 8.1.3t**.

Step 2 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.1.4 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 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 himself/herself.

Motion Detection Example

If motion detection is enabled, object movement is captured by the camera as shown below. **Fig 8.1.4a** 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.

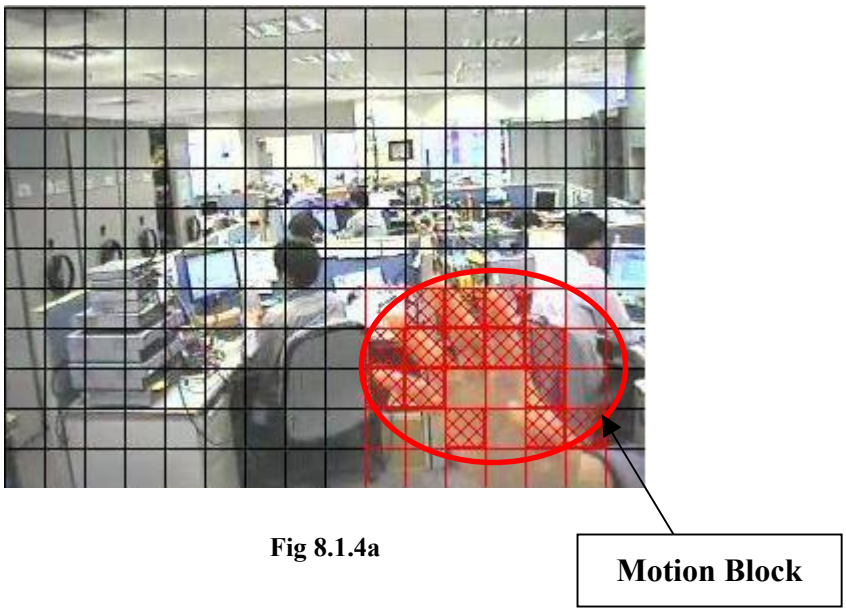


Fig 8.1.4a

Sensitivity

- **Level**

  The level definition of motion detection is due to the luminance level difference between current and reference field. The level has 10 levels, H is the most sensitive and L is the least sensitive.

- **Area**

  In motion detection, **one** selected motion block is divided into **four** sub-blocks as **Fig 8.1.4b**. 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 25% (1 block) to 100% (4 blocks). More blocks are selected, the motion trigger sensitivity decrease.

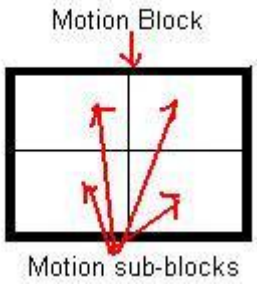
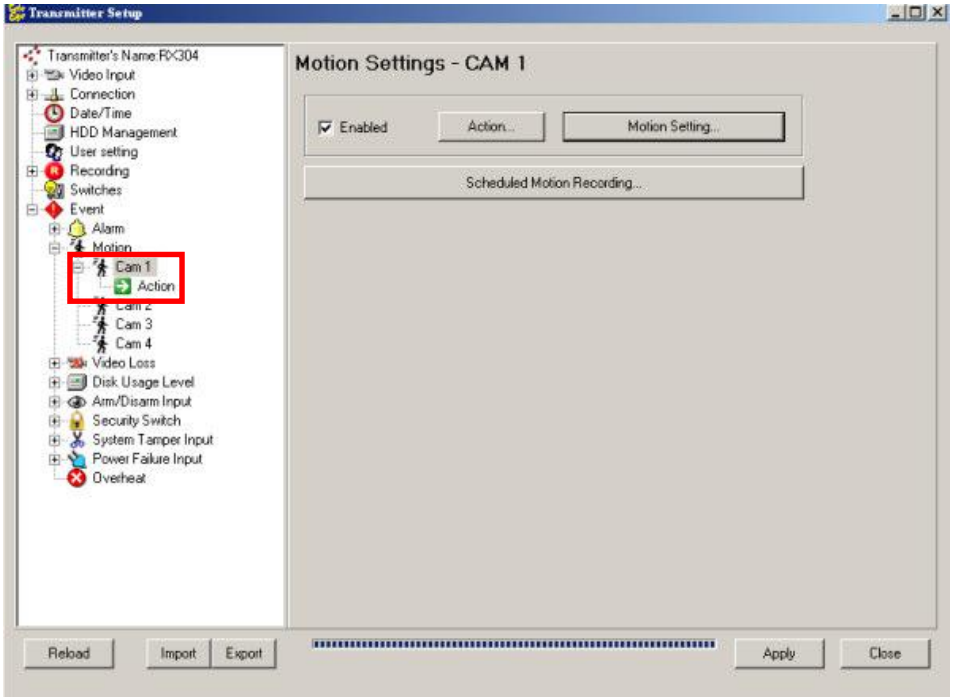


Fig 8.1.4b

Motion Setup Procedure :

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → **[Motion]** → **[Cam (No.)]** option to pop up **{Motion Setting}** panel as **Fig 8.1.4c**.



Motion

Fig 8.1.4c

Fig 8.1.4d

Step 2 : Click **[Enabled]** checkbox to enable the motion detection function for the camera.

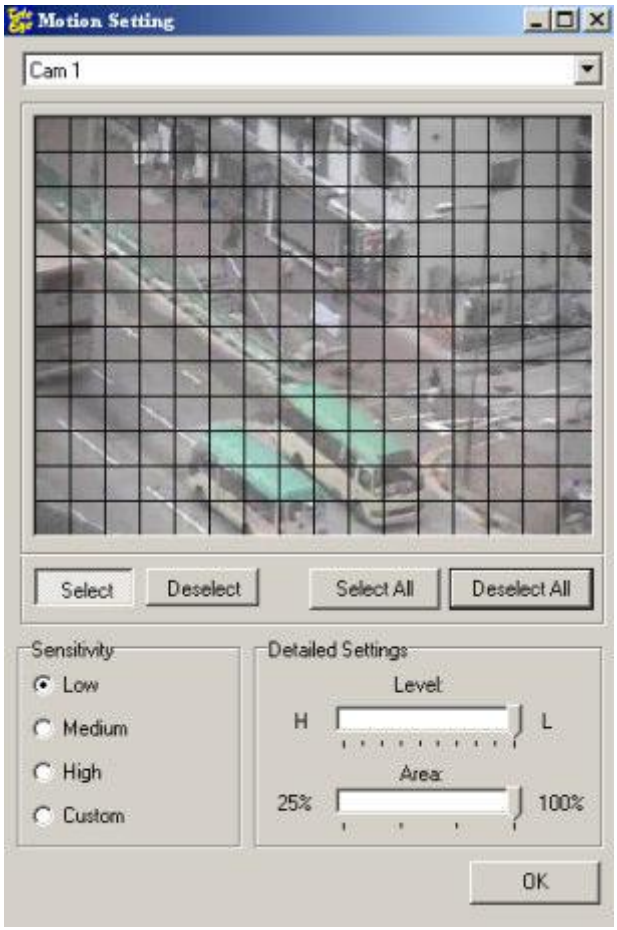


Fig 8.1.4e

Step 3 : Click **[Motion Setting]** to open **{Motion Setting}** pop up windows.

Click **[Select]** to select the required motion blocks. Click **[Deselect]** to delete the selected motion blocks. **[Select All]** is to select all motion block on the screen. **[Deselect All]** is to delete all motion blocks on the screen.

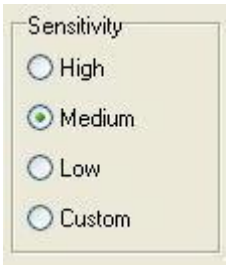


Fig 8.1.4f

Step 4 : Click **[High]**, **[Medium]**, **[Low]** or **[Custom]** for motion sensitivity.

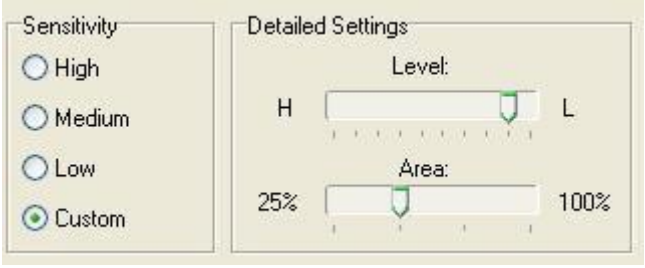


Fig 8.1.4g

Step 5 : If **[Custom]** sensitivity is selected, user can select **level** and **area** for sensitivity by click **[Level]** or **[Area]** scroll bar.

Step 6 : After setting all camera for motion, user can view the alarm setting summary in **{Transmitter Setup}** panel by clicking **[Event]** → **[Motion]** option to pop up **{Motion Setting Summary}** panel as **Fig 8.1.4h**

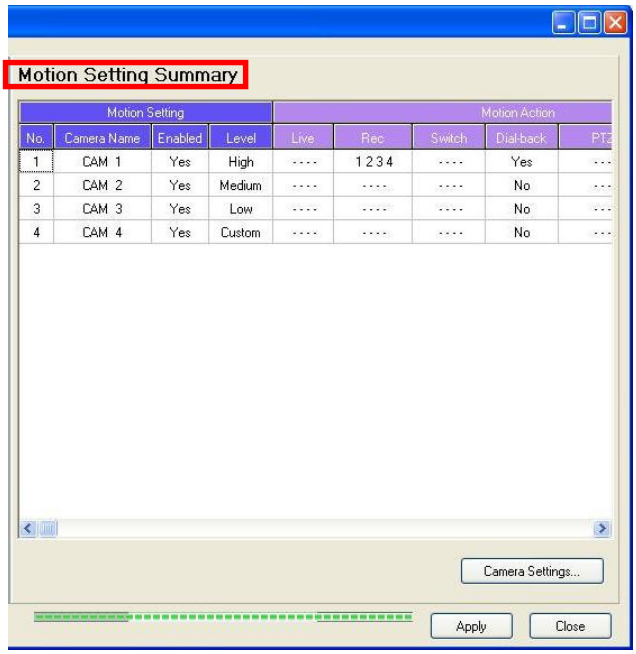


Fig 8.1.4h

Fig 8.1.3i

Step 8 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

Motion

Setup through Motion Setting Summary Procedure :

User can use **{Motion Setting Summary}** panel as a quick way to do the alarm settings.

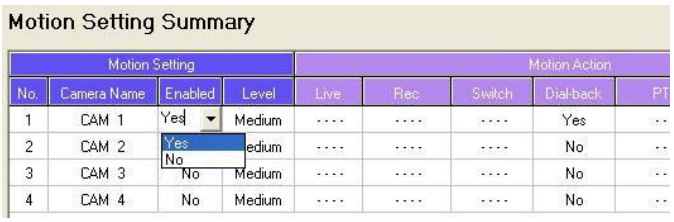


Fig 8.1.4j

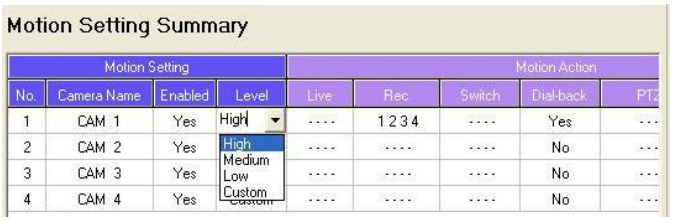


Fig 8.1.4k

Step 1 : On the **{Motion Setting Summary}** panel, user can click the boxes under **[Enabled]**, **[Level]** or those actions, in the summary to change the motion enable, sensitivity level, or other action options for the motion event as shown on **Fig 8.1.3j** and **Fig 8.1.3k**.

OR

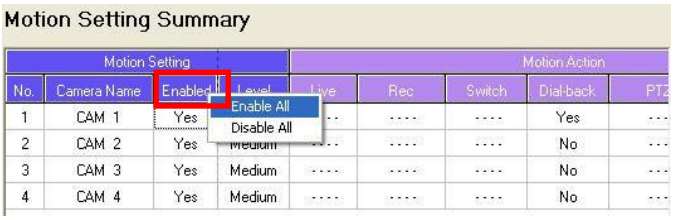


Fig 8.1.4l

Step 1 : Or, user can click the **[Enabled]** or **[Level]** to choose all cameras for the same motion settings as shown on **Fig 8.1.3l** and **Fig 8.1.3m**.

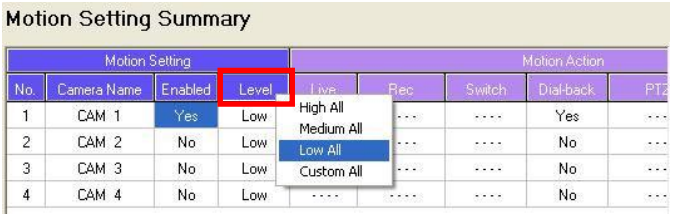


Fig 8.1.4m

Fig 8.1.4n

Step 2 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.1.5 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 live camera displays a blue picture for video loss condition.

Video Loss Setup Procedure :

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → **[Video Loss]** → **[Cam (No.)]** option to pop up **{Video Loss Setting}** panel as **Fig 8.1.5a**.

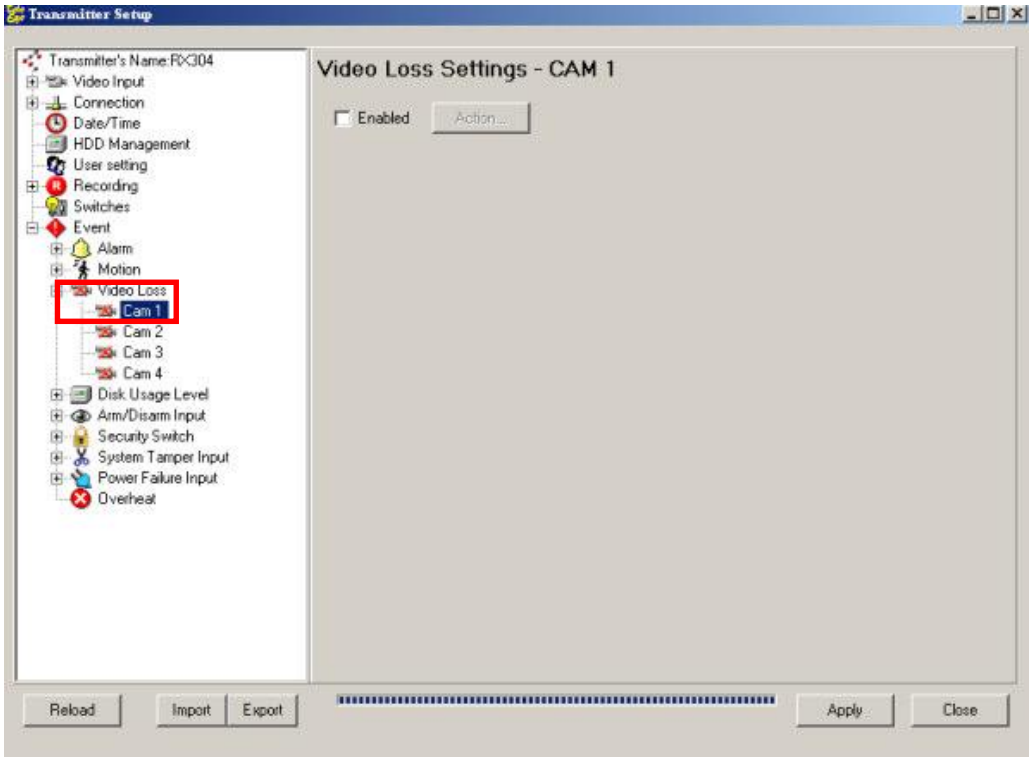


Fig 8.1.5a

Fig 8.1.5b

Step 2 : Click **[Enabled]** checkbox to enable the video loss function for the camera.

Step 3 : After setting video loss function for all cameras, user can view the video loss setting summary in **{Transmitter Setup}** panel by clicking **[Event]** → **[Video Loss]** option to pop up **{Video Loss Setting Summary}** panel as **Fig 8.1.5c**

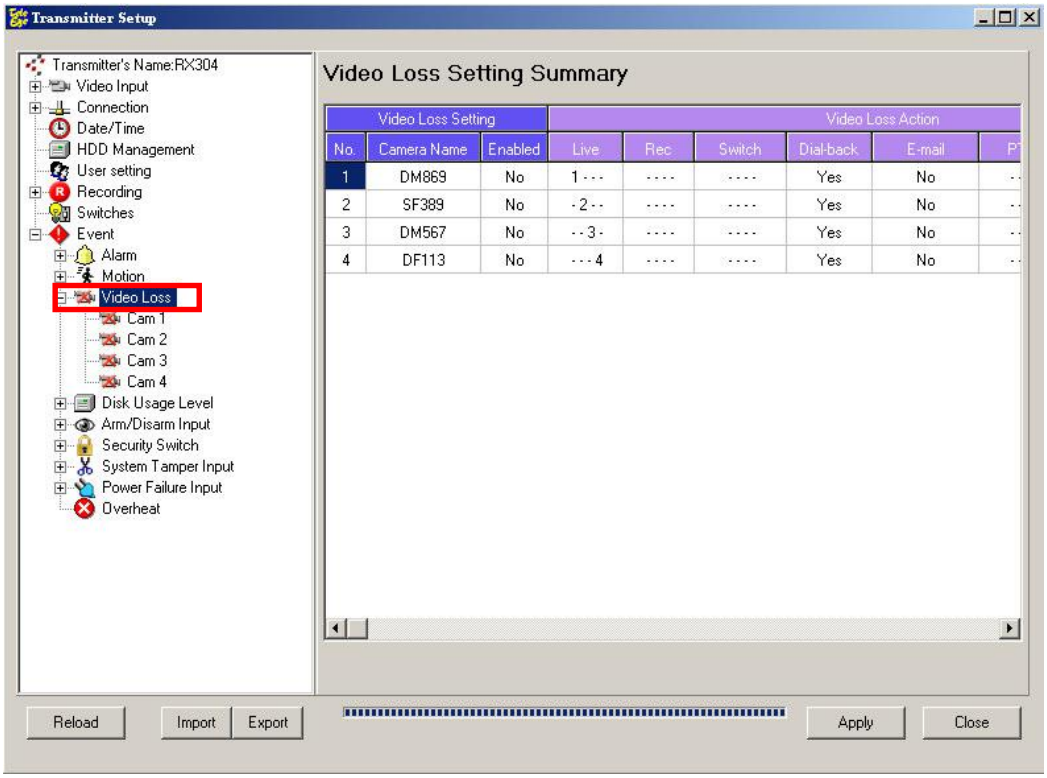


Fig 8.1.5c

Fig 8.1.3d

Step 8 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

Setup through Video Loss Setting Summary Procedure :

User can use **{Video Loss Setting Summary}** panel as a quick way to do the alarm settings.

Fig 8.1.5e

Step 1 : On the **{Video Loss Setting Summary}** panel, user can click the boxes under **[Enabled]** or other actions in the summary to change the options for the video loss event as shown on **Fig 8.1.5e**.

OR

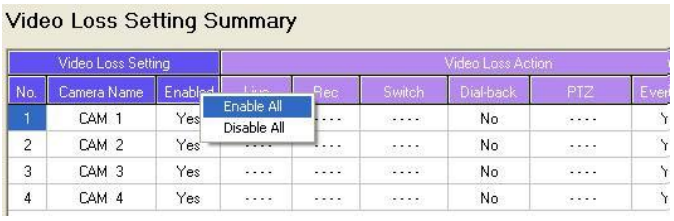


Fig 8.1.5f

Step 1 : Or, user can click **[Enabled]** box to enable or disable video loss event for all cameras as shown on **Fig 8.1.5f**.

Fig 8.1.5g

Step 2 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.1.6 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**.

System Tamper Setup Procedure :

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → **[System Tamper Input]** option to pop up **{System Tamper Input Setting}** panel as **Fig 8.1.6a**

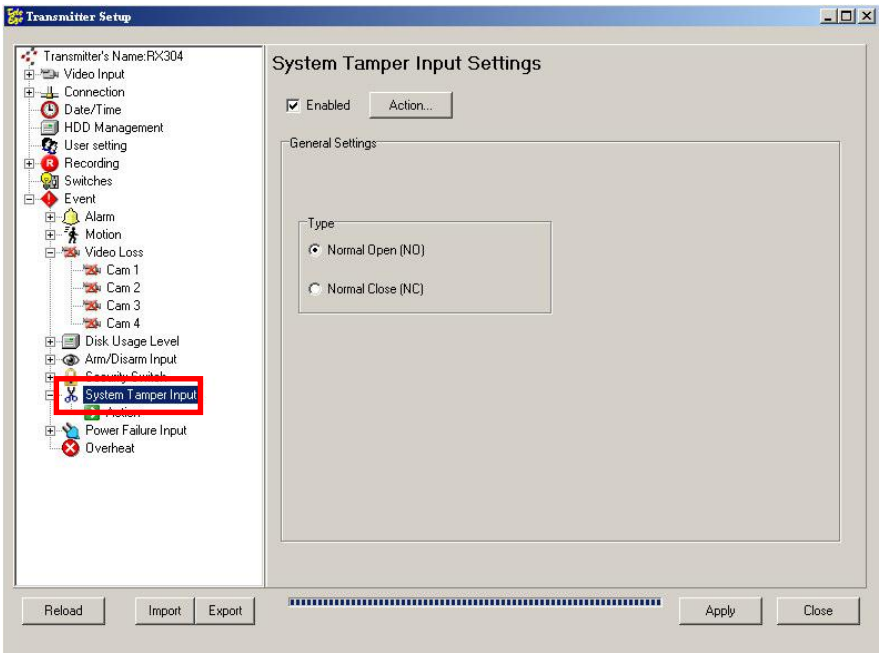


Fig 8.1.6a

System Tamper

Fig 8.16b

Step 2 : Click **[Enabled]** checkbox to enable system tamper input.

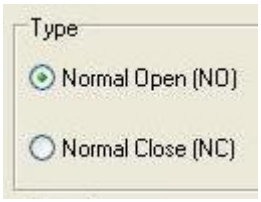


Fig 8.16c

Step 3 : Click **[Open]** or **[Close]** for sensor type option.

Fig 8.1.6d

Step 4 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.1.7 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.

Power Failure Setup Procedure :

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → **[Power Failure Input]** option to pop up **{Power Failure Input Setting}** panel as **Fig 8.1.7a**

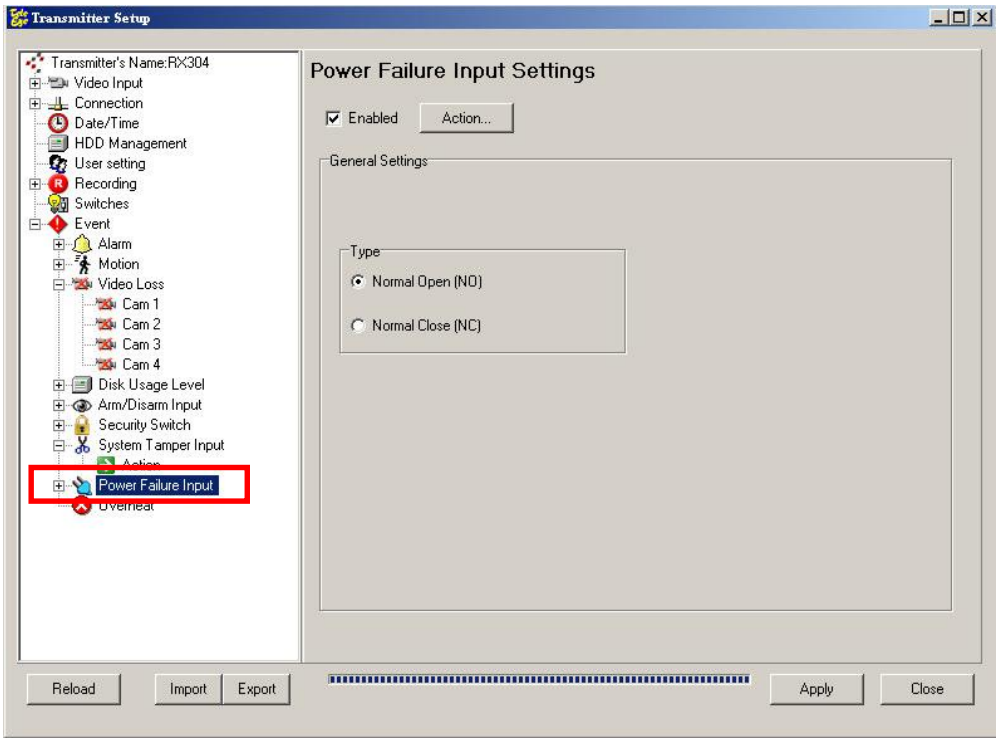


Fig 8.1.7a

Fig 8.17b

Step 2 : Click **[Enabled]** checkbox to enable power failure input.

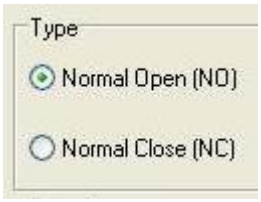


Fig 8.17c

Step 3 : Click **[Open]** or **[Close]** for sensor type option.

Fig 8.1.7d

Step 4 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.2 Action

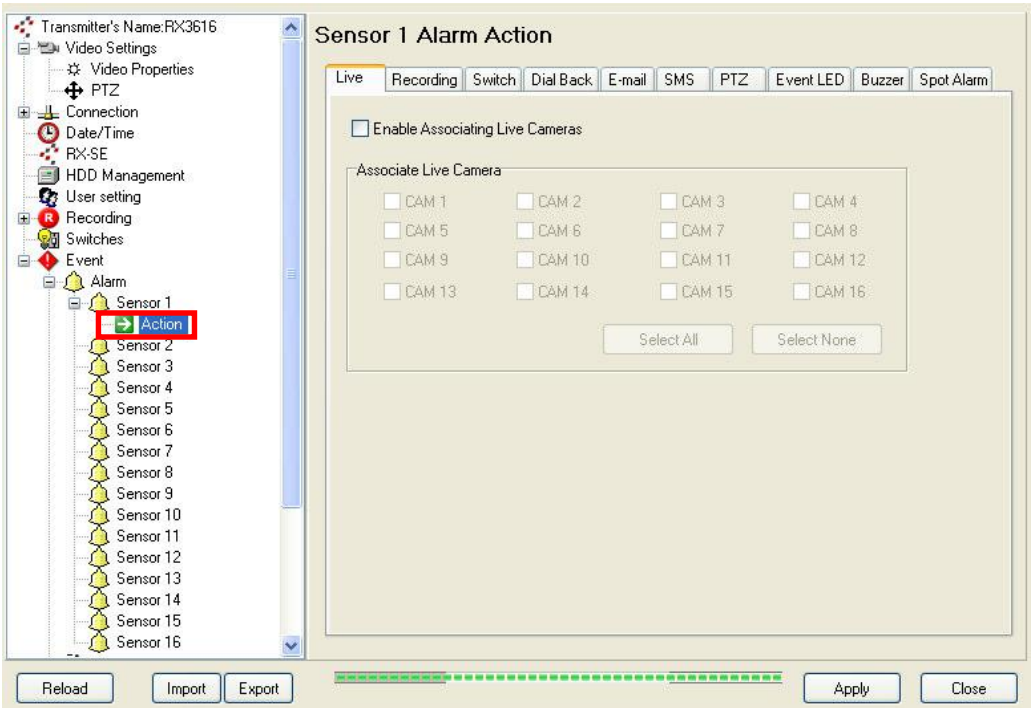
*Tele*Eye RX supports 8 actions which can be activated by any events

1. **Live Camera**
2. **Recording**
3. **Switch**
4. **Dial back**
5. **PTZ**
6. **Event LED**
7. **Buzzer**
8. **Spot Alarm**

User can set an event to activate its associate action. **Fig 8.2a** shows the event action summary for all events

Action Setting Procedure :

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → Any event → **[Action]** option to pop up **{(Event) Action}** panel as shown on **Fig 8.2a**.



Action

Fig 8.2a

OR

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → Any event option to pop up any event setting panel. Click **[Action]** button near **[Enabled]** checkbox to pop up **{(Event) Action}** panel as shown on **Fig 8.2b**.

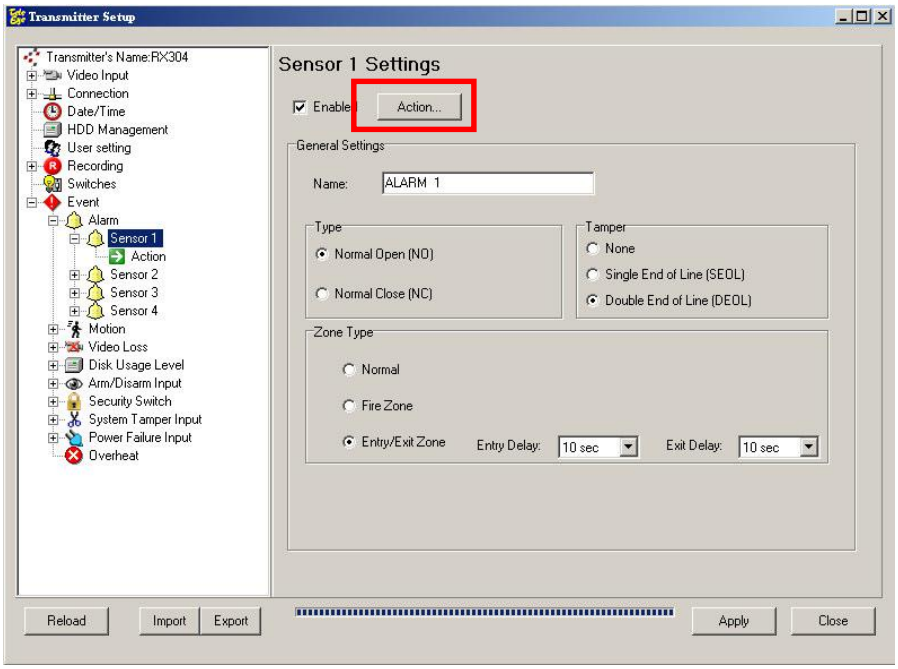


Fig 8.2b

Step 2 : User can select the action setting for that event as shown on **Fig 8.2c**.

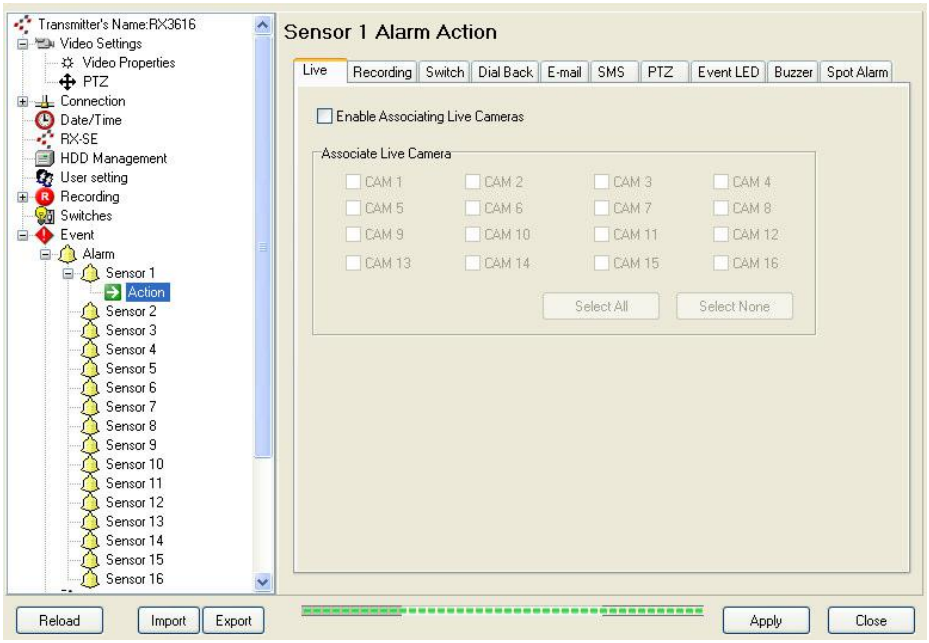


Fig 8.2c

Action

8.2.1 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 Setup Procedure :

Step 1 : In **{(Event) Action}** panel, click **[Live]** option to set live camera setting as **Fig 8.2.1a**.

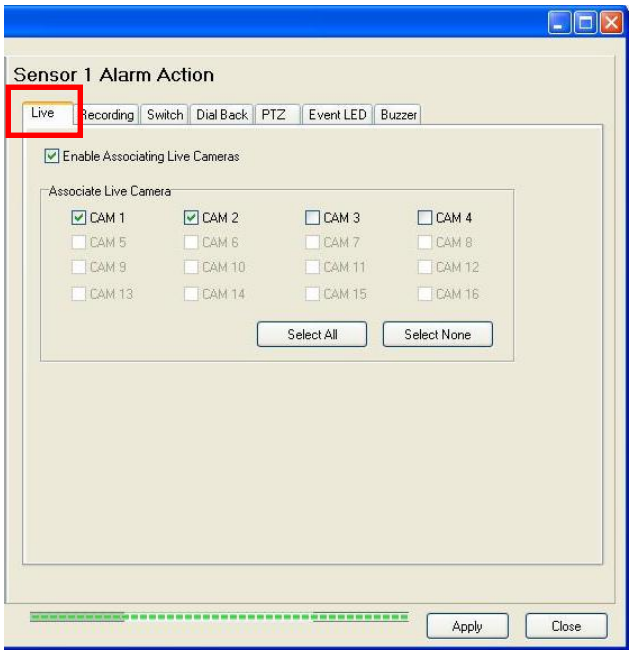


Fig 8.2.1a

Fig 8.2.1b

Step 2 : Click **[Enable Associate Live Cameras]** checkbox to enable the live camera for that event.

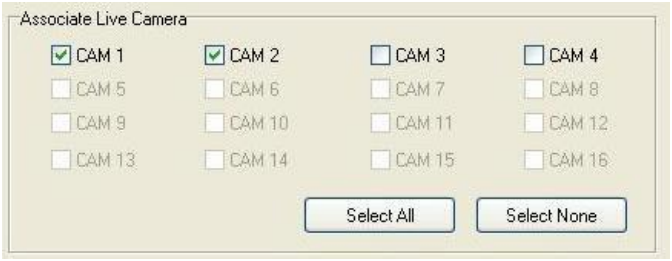


Fig 8.2.1c

Step 3 : Click the checkbox for the camera to select which camera for the live camera action. **[Select All]** option is for selecting all cameras. **[Select None]** option is for selecting no camera. However, user needs to select **at least one** camera for the action.

Fig 8.2.1d

Step 4 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.2.2 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 on **{Search Playback Log}** panel 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 modes, **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.

Disk Mode

Cyclic disk mode can **erase the oldest recording data** in hard disk if the hard disk is full, and continue to record video. Fix disk mode need to **stop all recording** if hard disk is full.

Quality

This is the quality of the recorded video. The quality is divided into 5 levels (in ascending quality order) : **low**, **fair**, **medium**, **good** and **excellent**.

Resolution

This is the display resolution for the recorded video. **Full** is the resolution suitable for full size display. **Quad** is the resolution suitable for quarter size display. During playback, quad resolution video may have several noise in full size display mode.

Recording

Recording Setup Procedure :

Step 1 : In **{(Event) Action}** panel, click **[Recording]** option to set recording setting as **Fig 8.2.2a**.

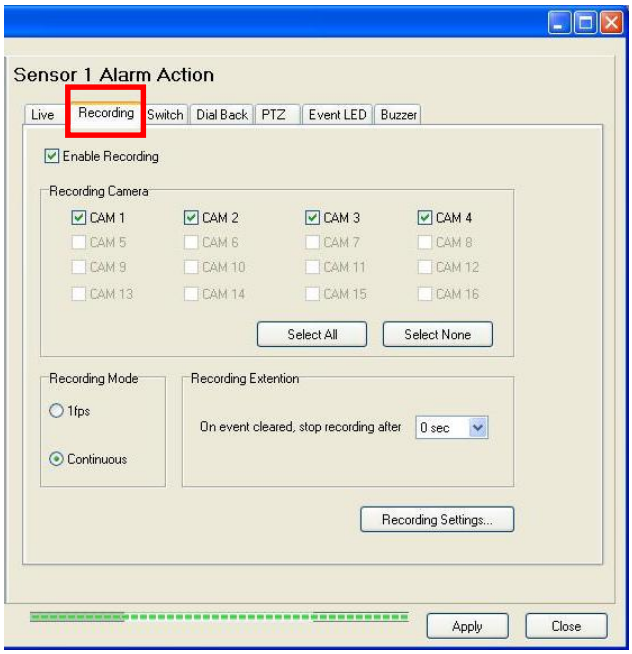


Fig 8.2.2a

Fig 8.2.2b

Step 2 : Click **[Enable Recording]** checkbox to enable recording for that event.

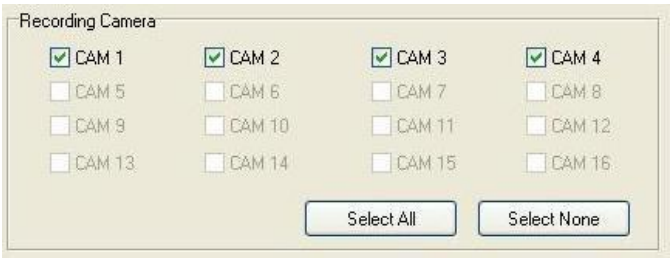


Fig 8.2.2c

Step 3 : Click the checkbox for the camera to select which camera for the recording action. **[Select All]** option is for selecting all cameras. **[Select None]** option is for selecting no camera. However, user needs to select **at least one** camera for the action.

Fig 8.2.2d

Step 4 : Click **[1fps]** or **[Continuous]** option for recording mode.

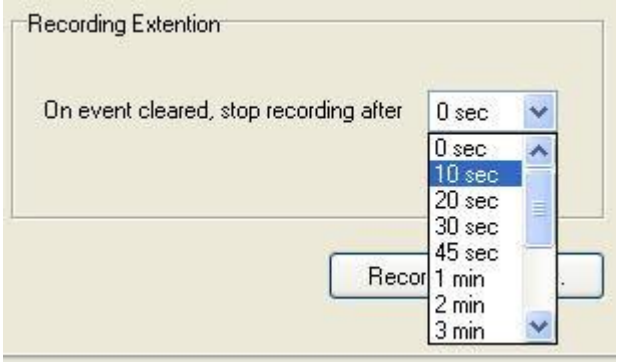


Fig 8.2.2e

Step 5 : Click **[On event clear, stop recording after]** to select the time for duration after event clear.

Fig 8.2.2f

Step 6 : Click **[Recording Setting]** button to pop up **{Recording Settings}** panel as **Fig 8.2.2g**.

☞ The options in **{Recording Settings}** panel are **global settings** that means these settings apply to all event and manual recording actions. User may need to do this setting once.

Fig 8.2.2g

Fig 8.2.2h

Step 7 : Click **[Cyclic]** or **[Fixed]** option for disk mode.

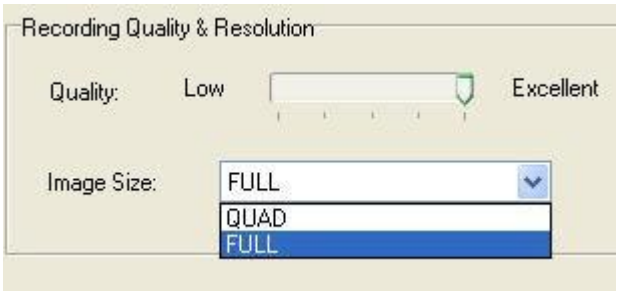


Fig 8.2.2i

Step 8 : Move the scroll bar to adjust **[Quality]**. Click **[FULL]** or **[QUAD]** option for image size. Press **[OK]** button to exit the panel.

Fig 8.2.2j

Step 9 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.2.3 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.

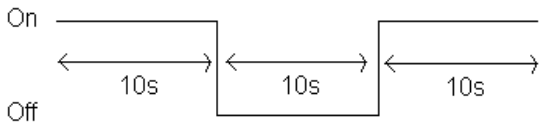


Fig 8.2.3a

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.

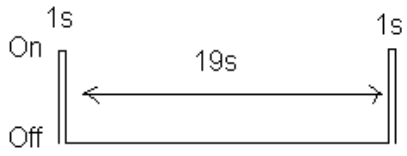


Fig 8.2.3b

Switch Setup Procedure :

Step 1 : In **{(Event) Action}** panel, click **[Switch]** option to set switch setting as **Fig 8.2.3c**.

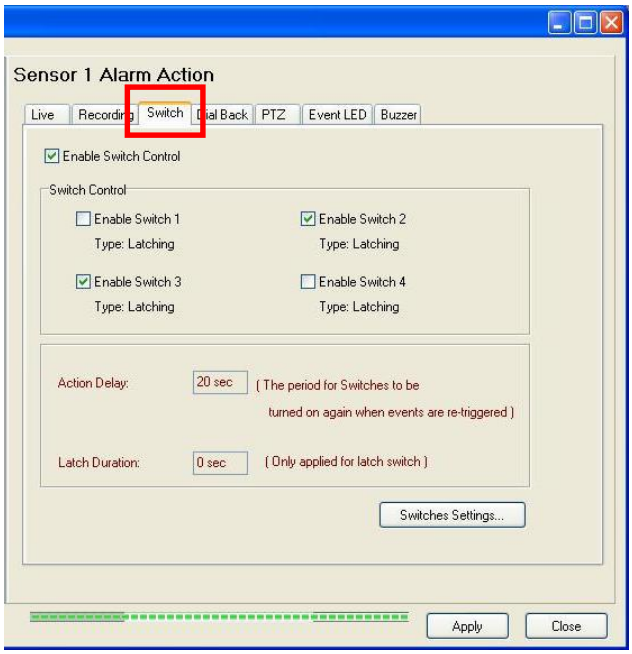


Fig 8.2.3c

Fig 8.2.3d

Step 2 : Click **[Enable Switch Control]** checkbox to enable switch action for that event.

Fig 8.2.3e

Step 3 : Click **[Enable Switch (No.)]** checkbox to enable which switch for that event.

Fig 8.2.3f

Step 4 : Click **[Switch Settings]** button to pop up **{Switch Settings}** panel as **Fig 8.2.3g**.

☞ The options in **{Switch Settings}** panel are **global settings** that means these settings apply to all switch actions. User may need to do this setting once.

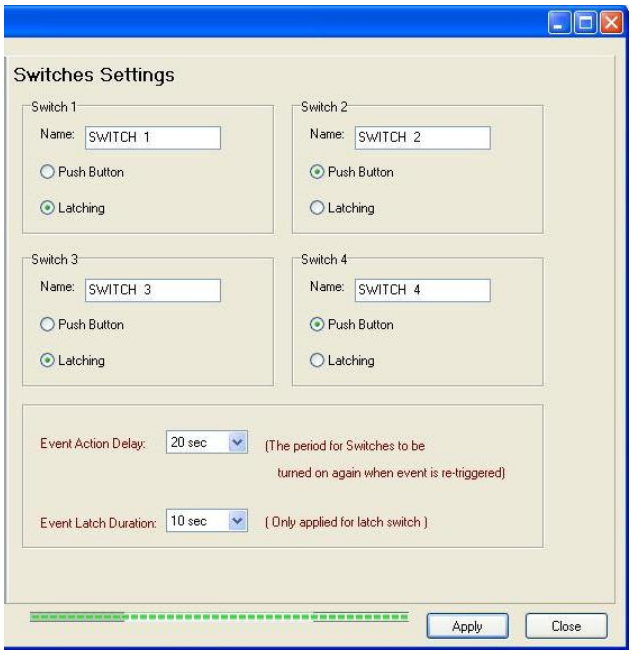


Fig 8.2.3g

Fig 8.2.3h

Step 5 : Edit the name of the switch.

Fig 8.2.3i

Step 6 : Click **[Push Button]** or **[Latching]** option for switch type.

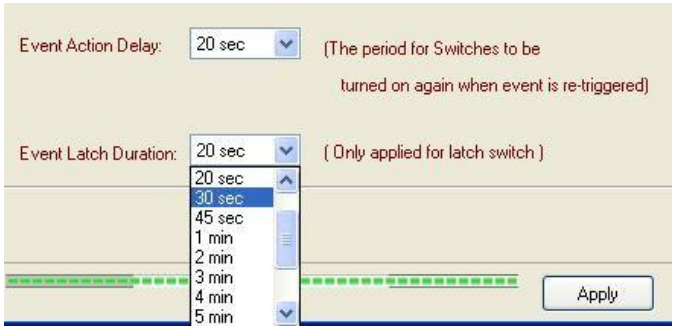


Fig 8.2.3j

Step 7 : Click **[Event Action Delay]** to select the time switch action delay. Click **[Event Latch Duration]** to select the time switch latch duration. Press **[OK]** button to exit the panel.

Fig 8.2.3k

Step 8 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.2.4 Dial Back

Dial Back

Dial back 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 dial back retrial (in second).

Retry Count

The retry count is the number of dial back retrial if dial back fails.

Dial Back Setup Procedure :

Step 1 : In **{(Event) Action}** panel, click **[Dial Back]** option to set dial back setting as **Fig 8.2.4a**.

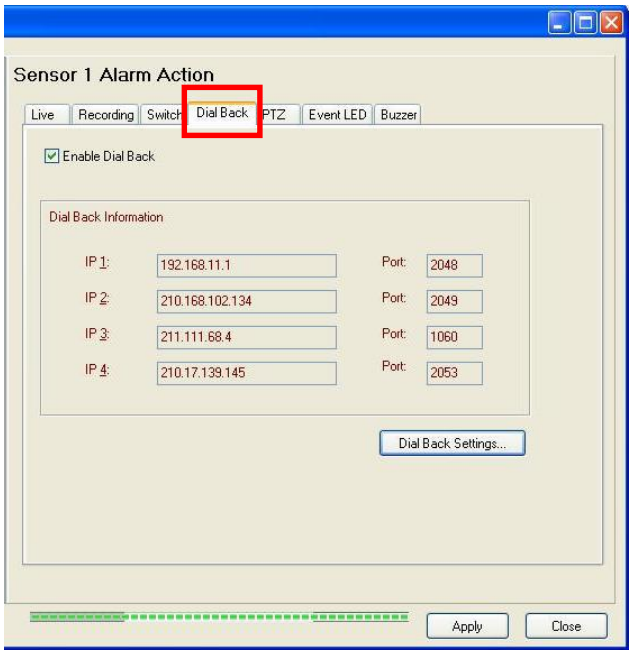


Fig 8.2.4a

Dial Back

Fig 8.2.4b

Step 2 : Click **[Enable Dial Back]** checkbox to enable dial back for that event.

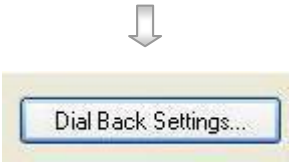


Fig 8.2.4b

Step 3 : Click **[Dial Back Settings]** button to pop up **{Dial-back Entry}** panel as **Fig 8.2.4c**.

☞ The options in **{Dial-back Entry}** panel are **global settings** that means these settings apply to all dial back actions. User may need to do this setting once.

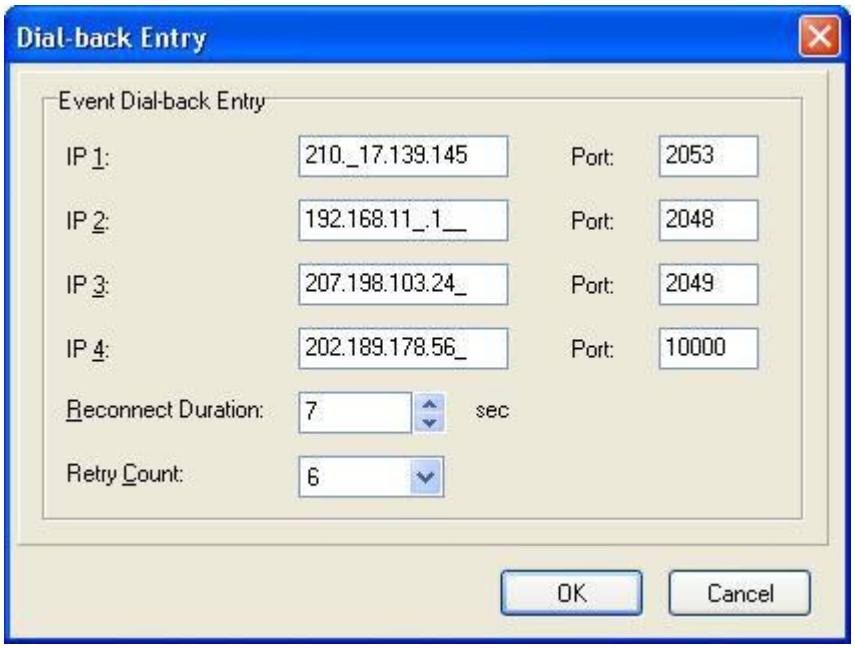


Fig 8.2.4c

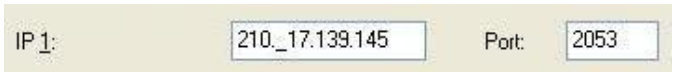


Fig 8.2.4d

Step 4 : Enter the dial back IP address and the port number of the PC.

☞ Since dial back allows the transmitter to connect to **one** remote PC only, the transmitter will try to connect to the 1st IP entry, then 2nd entry, etc. The PC with 1st dial back IP entry has the **highest** dial back priority.

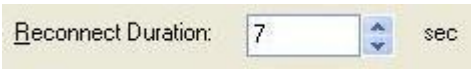


Fig 8.2.4e

Step 5 : Select **[Reconnect Duration]** for choosing the time of dial back retry duration.

Fig 8.2.4f

Step 6 : Select **[Retry Count]** for choosing the number of dial back fail retry. Press **[OK]** button to exit the panel.

Fig 8.2.4g

Step 7 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter. Press **[Close]** to exit the panel and go back to the main panel.

Step 8 : Click **[Alarm Standby]**  icon on the main panel as shown on **Fig 8.2.4h**.

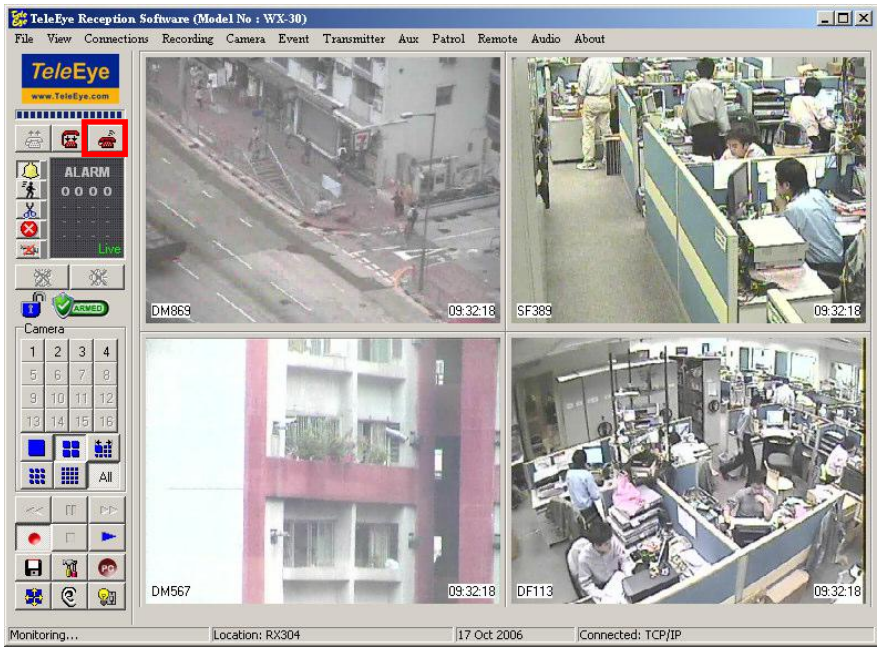


Fig 8.2.4h

Dial Back

Fig 8.2.4i

Step 9 : Enter the alarm password. The default alarm password is **000000**

Fig 8.2.4j

Step 10 : **{Standby Device}** panel pop up. Press the icon to select the connection type for dial back. Press the icon to enter **{Connection Speed}** panel.

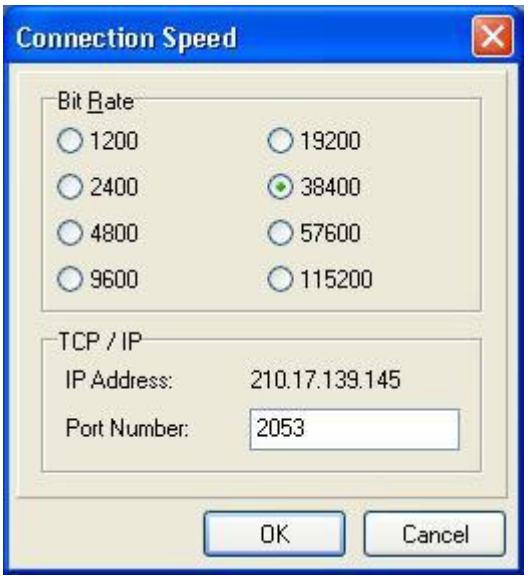


Fig 8.2.4k

Step 11 : Select bit rate, port number for the connection. The port number **should be as same as** the port number set in **step 4**. Press **[OK]** icon to exit and save the settings

Dial Back

8.2.5 Pan Tilt Zoom (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 Setup Procedure :

Step 1 : In **{(Event) Action}** panel, click **[PTZ]** option to set pan tilt zoom camera setting as **Fig 8.2.5a**.

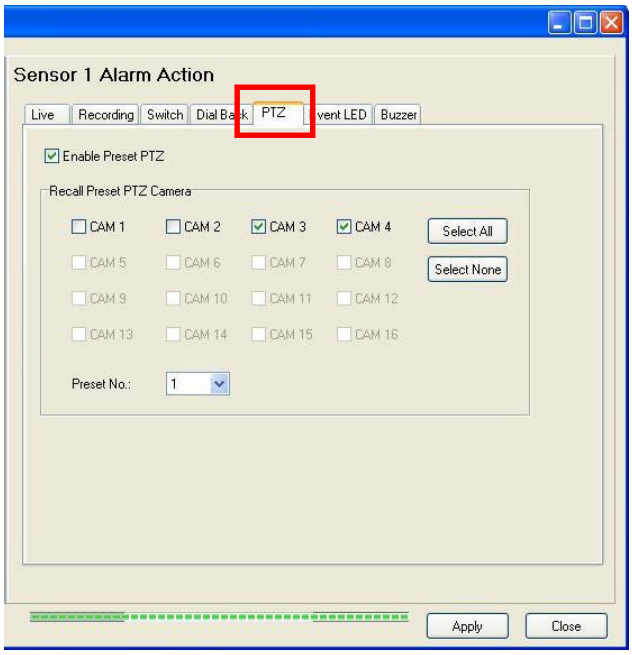


Fig 8.2.5a

Fig 8.2.5b

Step 2 : Click **[Enable Preset PTZ]** checkbox to enable pan tilt zoom camera for that event.

Fig 8.2.5c

Step 3 : Click the checkbox for the camera to select which camera for the PTZ camera action. **[Select All]** option is for selecting all cameras. **[Select None]** option is for selecting no camera. However, user needs to select **at least one** camera for the action.

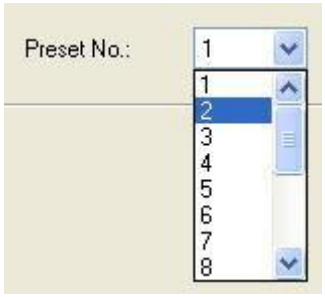


Fig 8.2.5d

Step 4 : Click **[Preset No.]** to select the preset position for the PTZ camera to go to if the event trigger.

For the detail of setting the PTZ preset position, please refer to P.125 of Section 9.1: PTZ Settings. It is strong recommended to go through Section 9.1 before do the PTZ action settings.

Fig 8.2.5e

Step 5 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.2.6 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 Setup Procedure :

Step 1 : In **{(Event) Action}** panel, click **[Event LED]** option to set event LED setting as **Fig 8.2.6a**.

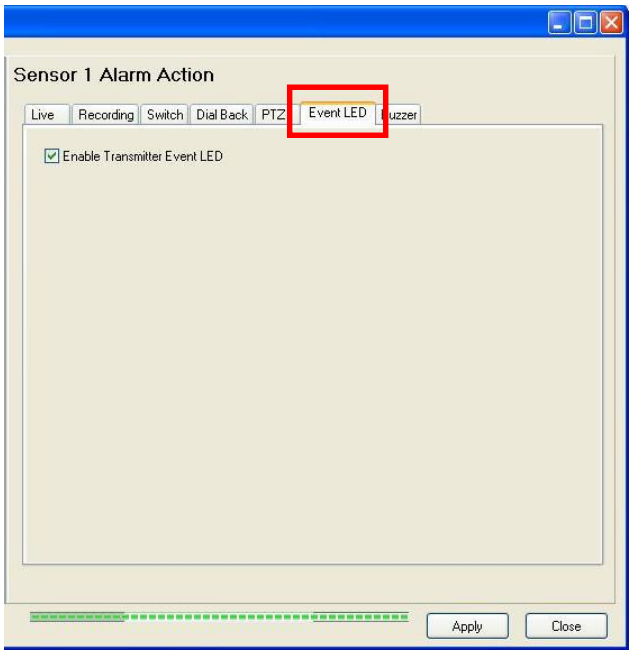


Fig 8.2.6a

Fig 8.2.6b

Fig 8.2.6c

Step 2 : Click **[Enable Transmitter Event LED]** checkbox to enable event LED for that event.

Step 3 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.2.7 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 Setup Procedure :

Step 1 : In **{(Event) Action}** panel, click **[Buzzer]** option to set buzzer setting as **Fig 8.2.7a**.

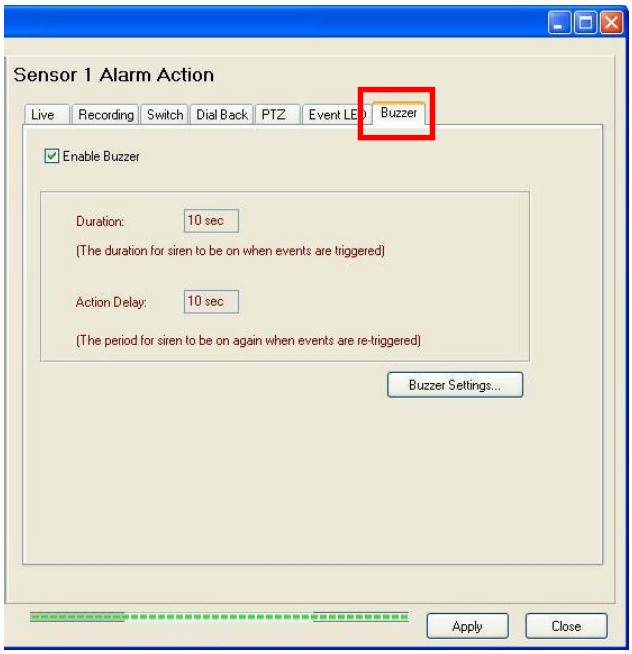


Fig 8.2.7a

Fig 8.2.7b

Step 2 : Click **[Enable Buzzer]** checkbox to enable buzzer for that event.

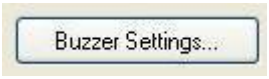


Fig 8.2.7c

Step 3 : Click **[Buzzer Settings]** button to pop up **{Buzzer Settings}** panel as **Fig 8.2.7d**.

☞ The options in **{Buzzer Settings}** panel are **global settings** that means these settings apply to all buzzer actions. User may need to do this setting once.

Fig 8.2.7d

Step 4 : Click **[Action Duration]** to select the time for buzzer action duration. Click **[Action Delay]** to select the time for buzzer action delay. Press **[OK]** button to exit the panel.

Fig 8.2.7e

Step 5 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

8.2.8 Spot Alarm

Spot Alarm Setup Procedure :

Step 1 : In **{(Event) Action}** panel, click **[Live]** option to set live camera setting as **Fig 8.2.8a**.

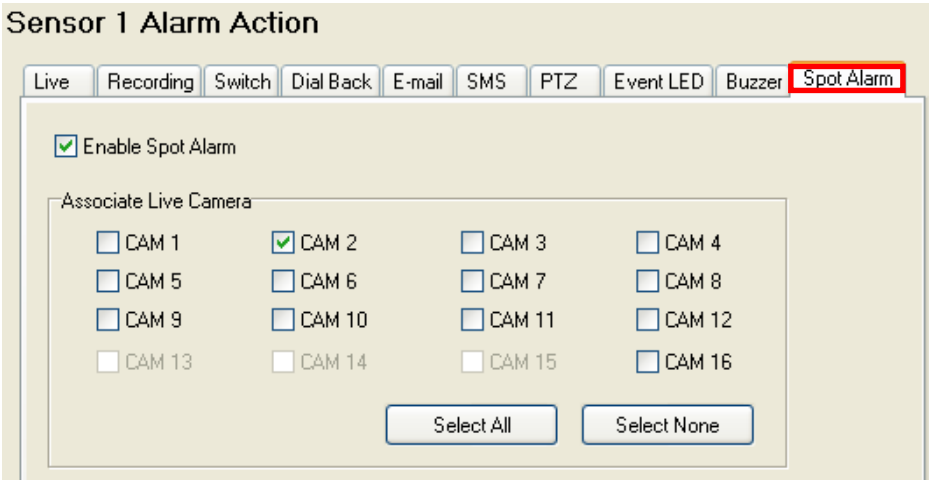


Fig 8.2.8a

Fig 8.2.8b

Step 2 : Click **[Enable Spot Alarm]** checkbox for that event.

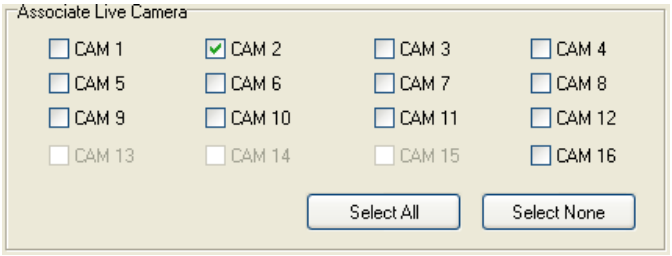


Fig 8.2.8c

Step 3 : Select the camera(s) for the live camera action. It is needed to select **at least one** camera for this action.

Fig 8.2.8d

Step 4 : Click **[Apply]** button to save the settings.

8.2.9 Email Setup :

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → **[Alarm]** → **[sensor (No.)]** → **[Action]** → **[E-mail]** option to setup email as **Fig 8.29a**.

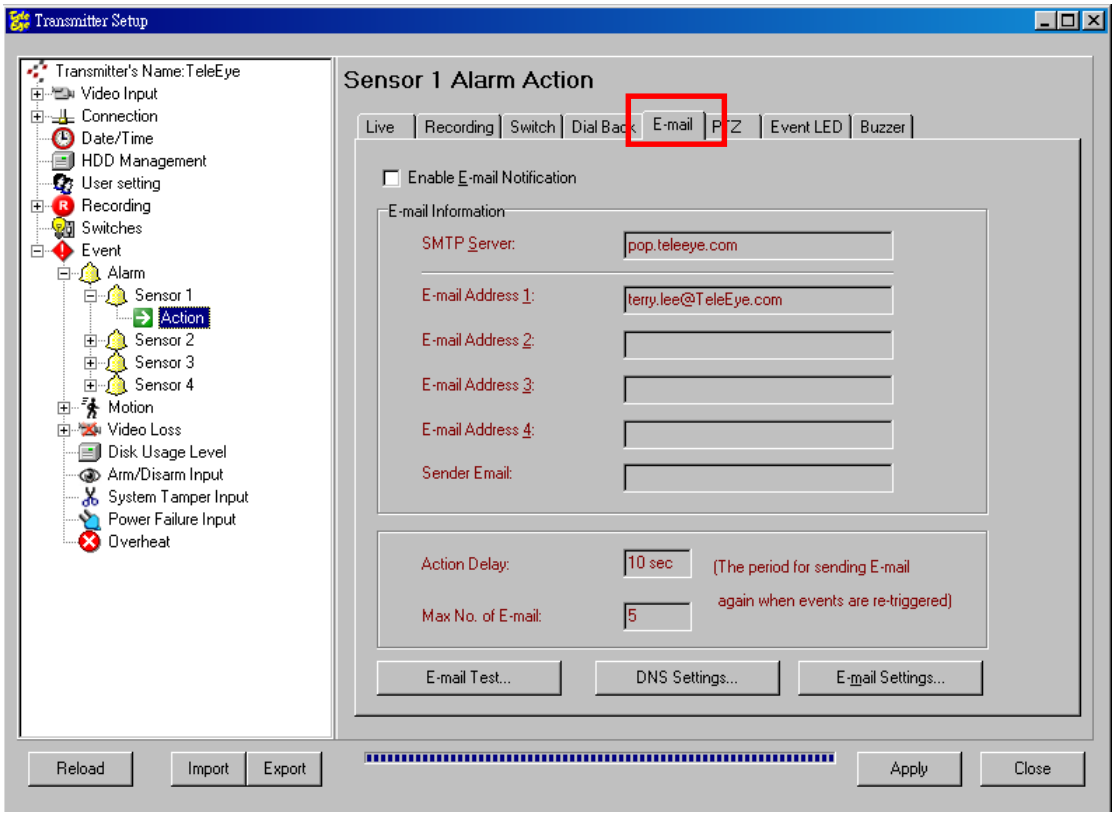


Fig 8.29a

Step 2 : Click **[E-mail Settings…]**

Fig 8.29b

Buzzer

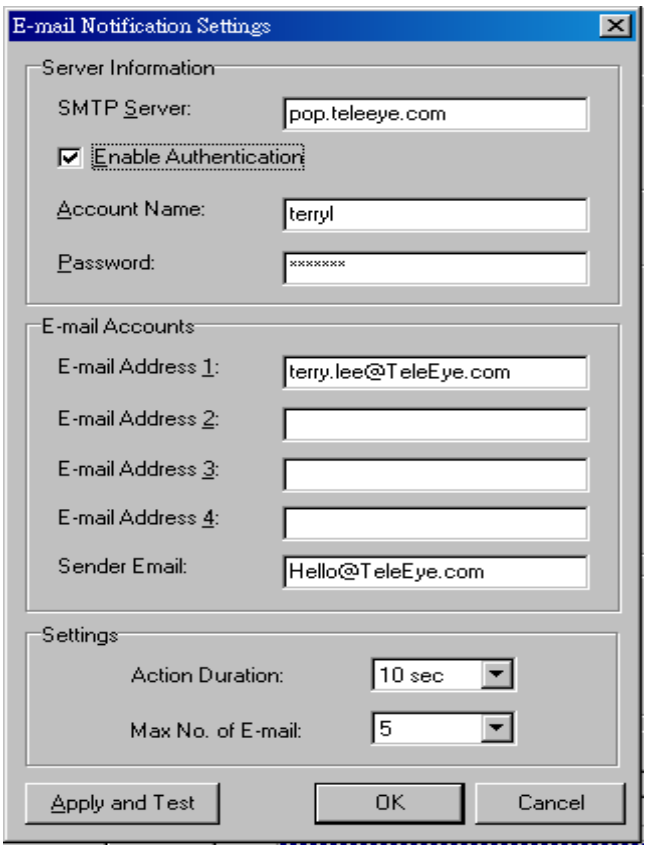


Fig 8.2.9c

Step 3 : Click**[Enable Authentication]** to enable the authentication. Input the E-mail Address and the Sender Email.

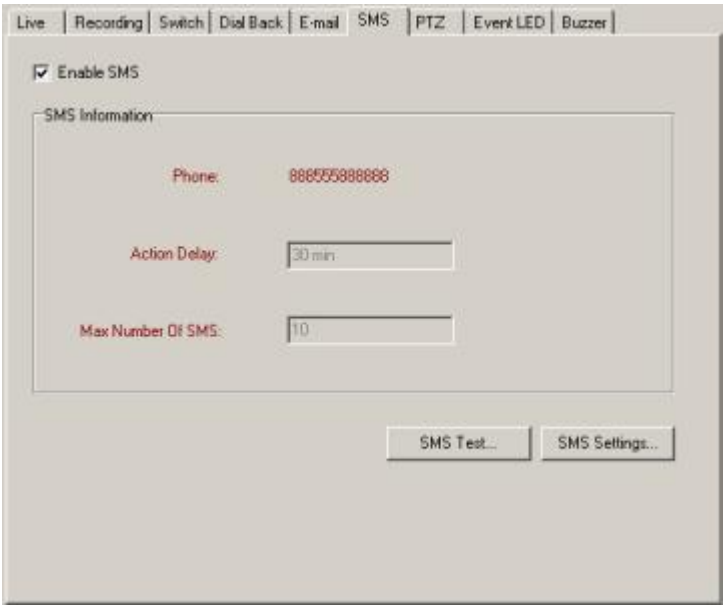
Fig 8.2.9d

Step 4 : Click **[OK]** button to save the setting of the e-mail

Buzzer

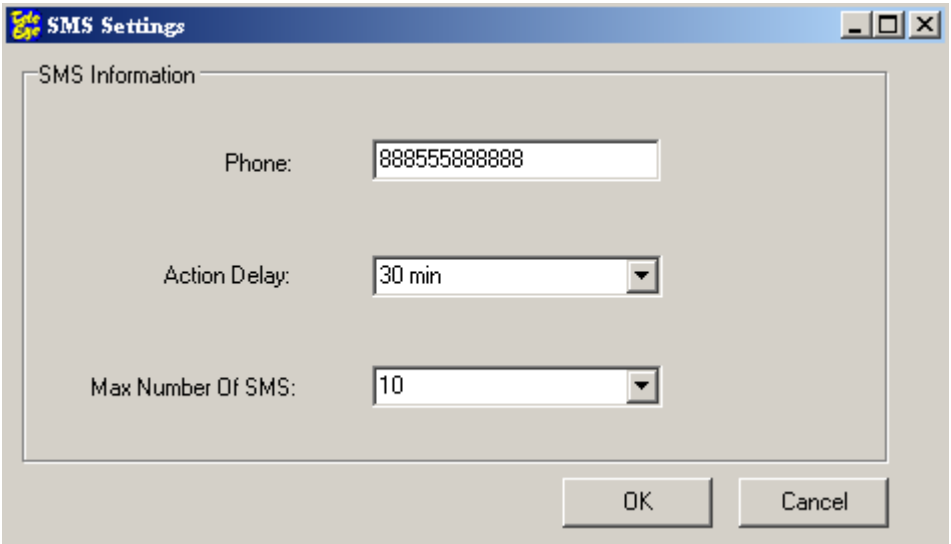
8.2.10 SMS Setup :

Step 1 : In **{(Event) Action}** panel, click **[SMS]** option to set SMS setting as **Fig 8.2.5a**.



Step 2 : Click **[Enable SMS]** button to enable SMS

Step 3 : Press **[SMS Settings…]** to open **{SMS Settings}** panel



Step 4: Enter the information in the provided fields and click **[OK]** button to apply the settings.

Step 5 (Optional): Click **[SMS Test…]** to perform SMS testing.

Buzzer

8.2.11 Dialback Test:

Step 1 : In **{Transmitter Setup}** panel, click **[Event]** → **[Alarm]** → **[sensor (No.)]** → **[Action]** → **[Dial Back]** option to setup email as **Fig 8.211a**.

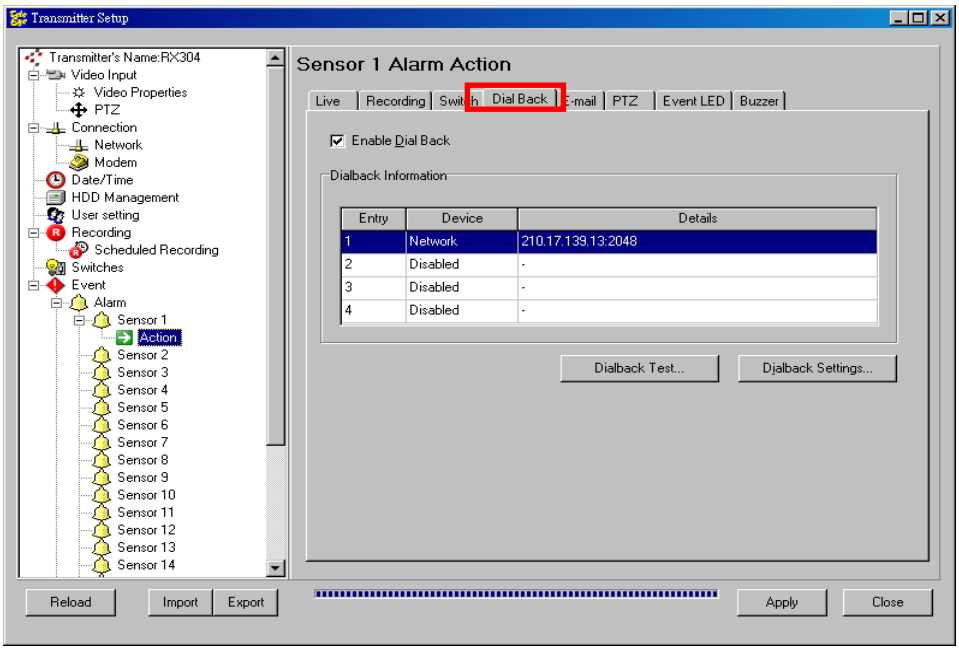


Fig 8.211a

Fig 8.211b

Step 2 : Click **[Dialback Test…]**

Buzzer

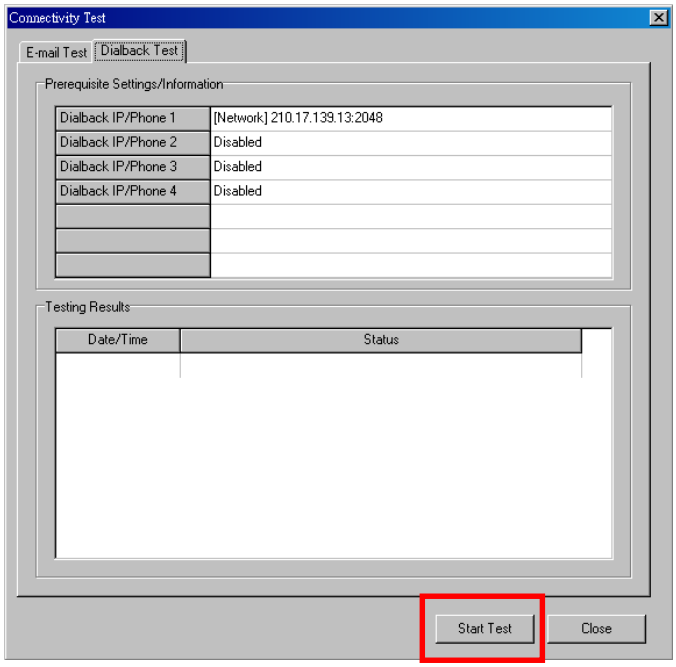


Fig 8.2.11c

Step 3 : Click **[Start Test]**.

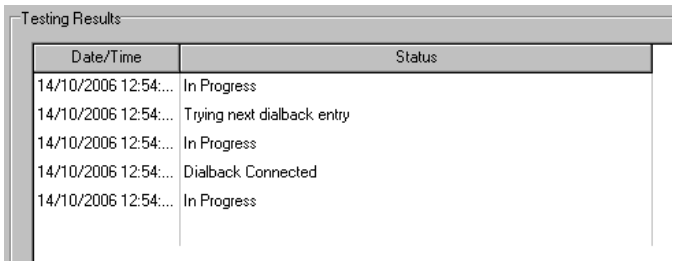


Fig 8.2.11d

Step 4 : Test result will show in the status.

Buzzer

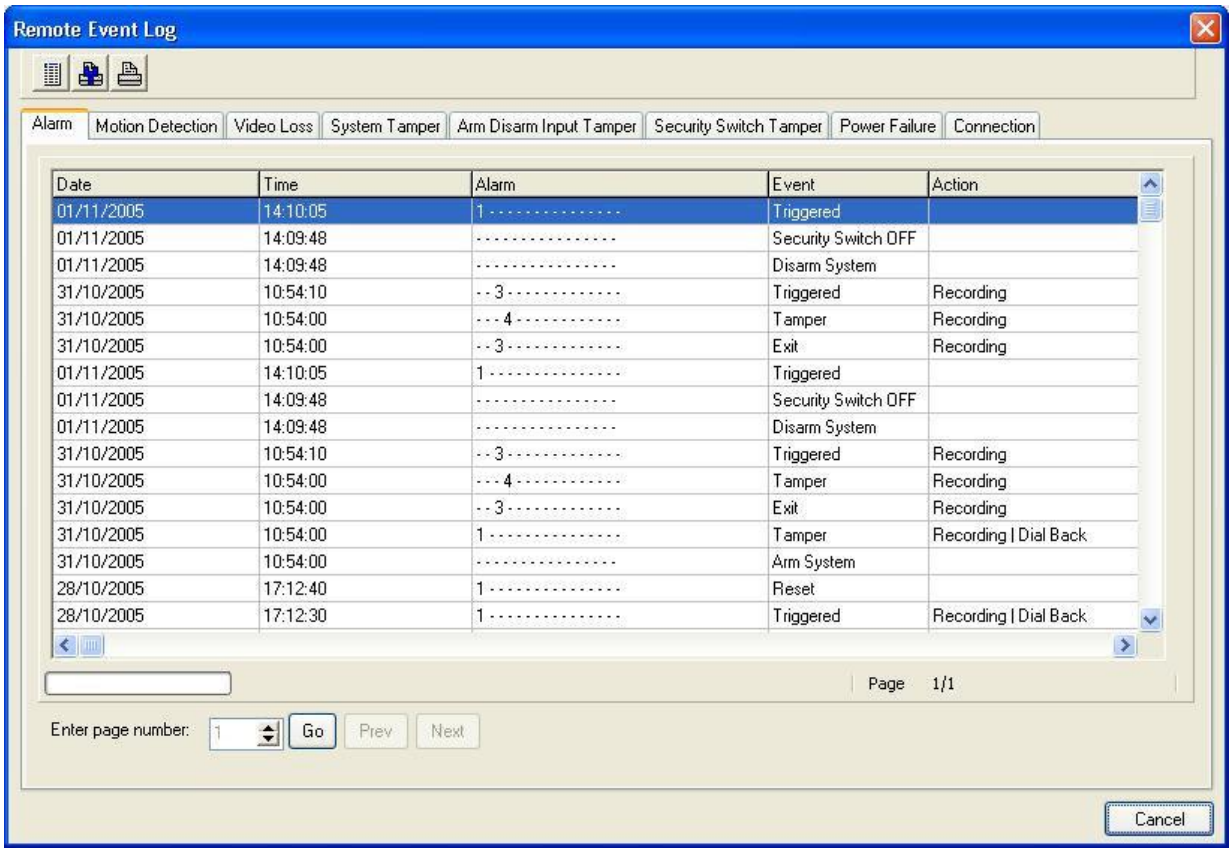
8.3 Event Indication

***Tele*Eye Reception Software WX-30** has user friendly event display interface and accurate event log. User can realize event trigger through different panels on the interface or read the event log.

1. Event Panel

2. Event Status

3. Event Log



Event Indication

8.3.1 Event Panel

Event panel is located at the main panel as shown in **Fig 8.3.1a**. It shows the instantaneous event status to users.

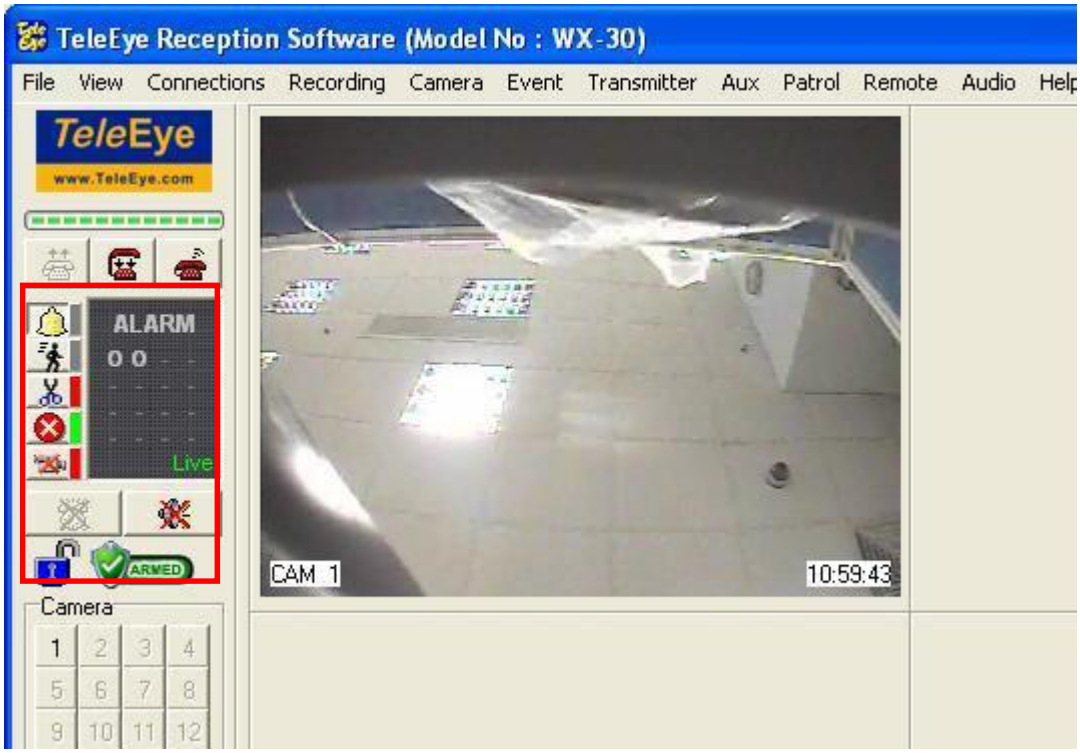


Fig 8.3.1a

Event Panel Button Indication Table

Button	Meaning
	Switch the **[Event]** panel to alarm mode
	Switch the **[Event]** panel to motion mode
	Switch the **[Event]** panel to tamper mode
	Switch the **[Event]** panel to system mode
	Switch the **[Event]** panel to video loss mode

Event Panel Icon Indication Table

Event Panel

Icon	Icon Status	Meaning
–	**Symbol " – "**	When the corresponding camera is not installed
O	**Symbol "O "**	A selected event corresponding to the camera triggering/triggered.
O	**Green "O "**	A selected event corresponding to the camera triggered and not cleared.
O	**Red "O "**	A selected event corresponding to the camera is triggering.
Disk Usage	**Gray**	No Disk Usage event triggered/triggering or this checking is not enabled.
	Green	Disk Usage event is triggered and not cleared.
	Red	Disk Usage event is triggering.
OverHeat	**Gray**	No Over Heat event triggered/triggering or this checking is not enabled.
	Green	Over Heat event is triggered and not cleared.
	Red	Over Heat event is triggering.
Power Failure	**Gray**	No Power Failure event triggered/triggering or this checking is not enabled.
	Green	Power Failure event is triggered and not cleared.
	Red	Power Failure event is triggering.
System Tamper	**Gray**	No System Tamper event triggered/triggering or this checking is not enabled.
	Green	event is triggered and not cleared.
	Red	event is triggering.
Alarm Tamper	**Gray**	No Alarm Tamper event triggered/triggering or this checking is not enabled.
	Green	Alarm Tamper event is triggered and not cleared.
	Red	Alarm Tamper event is triggering.

Others Event Panel Icon Indication Table

	**Colour**	Clear event if any event reset (green icon). If an event is trigger, it cannot be cleared.
	**Dimmed**	No event clear. It occurs if no event trigger or all events are triggering.
	**Colour**	Siren is turned on by event trigger
	**Dimmed**	Siren is turned off if no event trigger or siren timeout.
	**Green**	The system is armed.
	**Red**	The system is disarmed.
	**Lock On**	The security switch is turned on.
	**Lock Off**	The security switch is turned off.

8.3.2 Event Status

The event status can show the most update event status to user through log format.

Event Status Using Procedure :

Step 1 : Click **[Event]** → **[Event Status]** option on the main panel.

Fig 8.3.2a

Step 2 : **{Event Status}** panel is shown on **Fig 8.3.2b**.

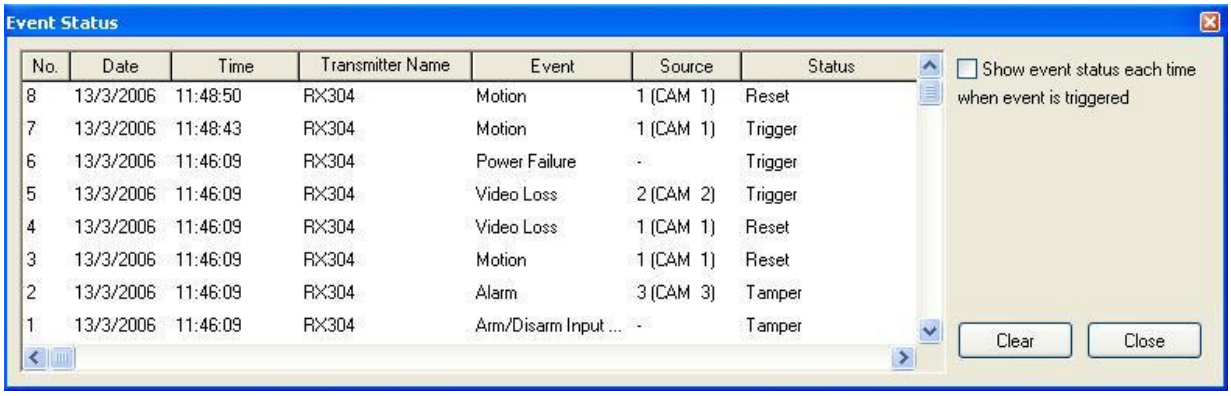


Fig 8.3.2b

Event Log

Event Status Column Description :

No.

The number of the event status

Date

Date of the event status

Time

Time of the event status

Transmitter Name

The event triggers at which transmitter.

Event

What kind of event trigger

Source

The alarm sensor number & name or camera number & name of the event

Status

The status of the event. Trigger means the event is triggering. Reset means the event has been triggered before without clear. Clear means the event has been cleared.

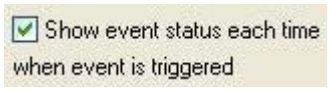


Fig 8.3.2c

Step 3 : Click the checkbox to pop up the status when event trigger. Default is clicked.

Fig 8.3.2d

Step 4 : User may clear the event status by pressing **[Clear]** button. Press **[Close]** to close the event status.

Event Log

8.3.3 Event Log

Event log record the event trigger status with the detail action taken.

Event Log Using Procedure :

Step 1 : Click **[Event]** → **[Transmitter Log]** → **[Event Log]** option on the main panel.

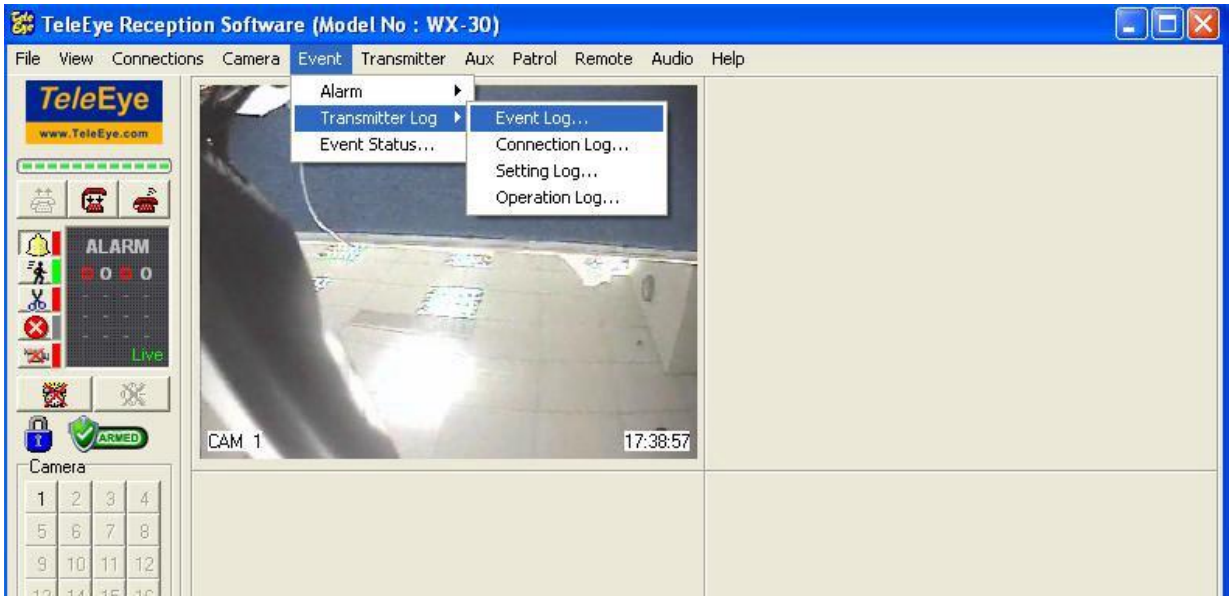


Fig 8.3.3a

Event Log

Step 2 : **{Remote Event Log}** panel is shown on **Fig 8.3.3b**. User can select different event menu.

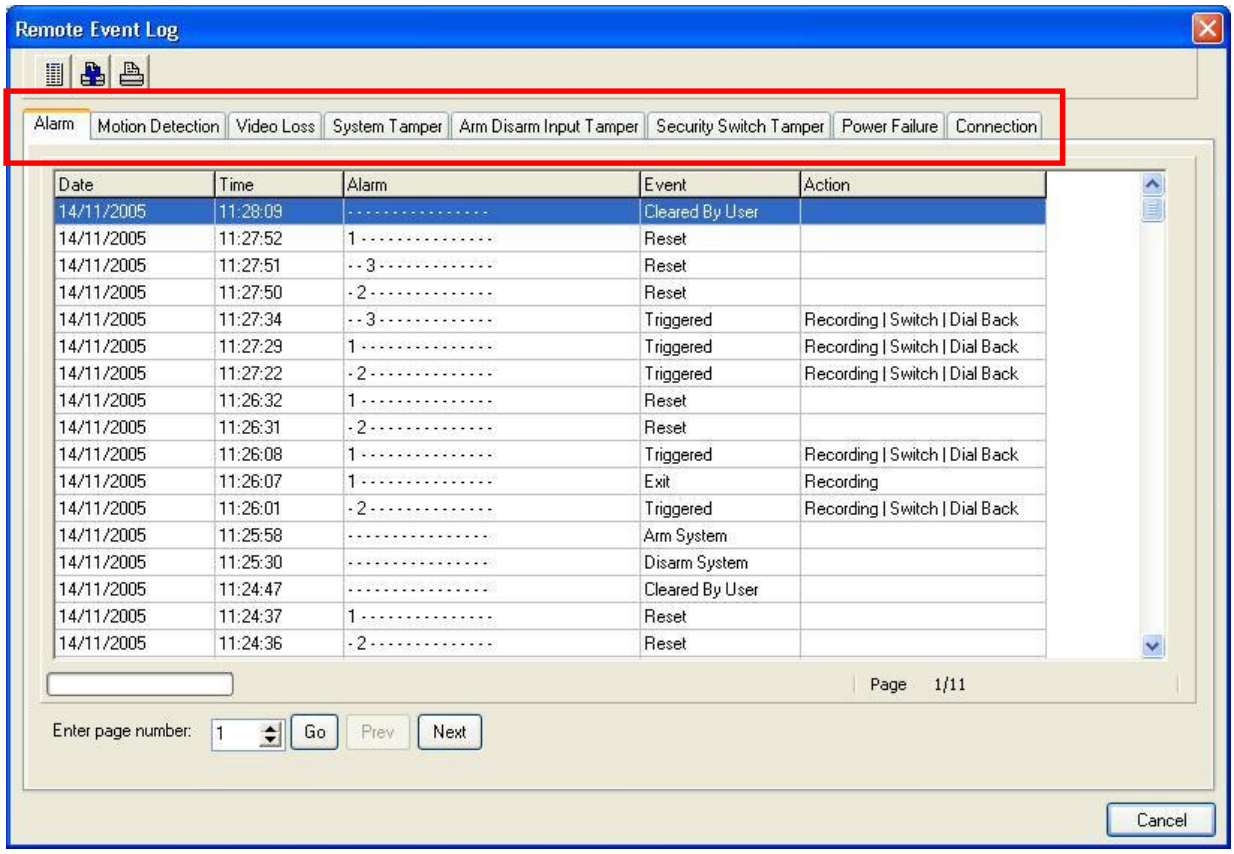


Fig 8.3.3b

Event Logs Column Description :

Date

It is the date when the event occurs.

Time

It is the time when the event occurs.

Alarm/Motion/Video Loss

It is the alarm sensor number(Alarm Log), or the camera number(Motion and Video Loss Log)

Event/State/Status

It is the event status, such as trigged, reset, cleared by user.

Action

It is the associate actions taken for the event

Event Log

Connection Log Column Description :

Date

It is the date when the connected or disconnected.

Time

It is the time when the connected or disconnected.

Access Media

It is the connection media between the transmitter and the PC, such as TCP/IP or modem.

Type

It is the type of connection, either PC connect to the transmitter or the transmitter dial back to PC by event action.

IP

It is the transmitter IP or phone number.

Status

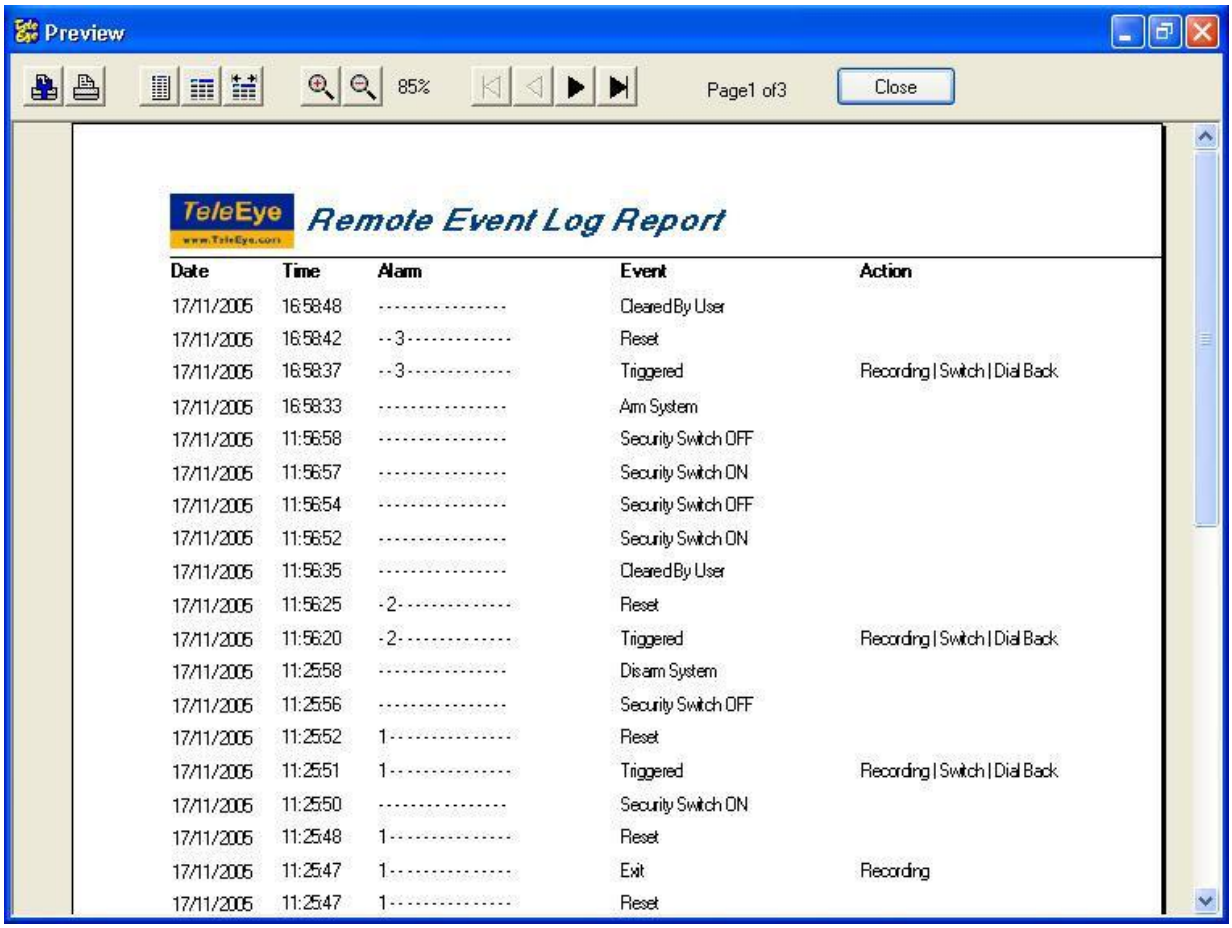
It is the status of connection, either connected or disconnected.

Fig 8.3.3c

Step 3 : Enter the page number and press **[Go]** button to go to the log page, or press **[Next]** button to go to next log page.

Fig 8.3.3d

Step 4 : User may print out the event log report by using the printing function. Press **[Preview]**  icon to view the remote event log report first as shown on **Fig 8.3.3e**.



Date	Time	Alarm	Event	Action
17/11/2005	16:58:48	----------	Cleared By User	
17/11/2005	16:58:42	--3-------	Reset	
17/11/2005	16:58:37	--3-------	Triggered	Recording | Switch | Dial Back
17/11/2005	16:58:33	----------	Arm System	
17/11/2005	11:56:58	----------	Security Switch OFF	
17/11/2005	11:56:57	----------	Security Switch ON	
17/11/2005	11:56:54	----------	Security Switch OFF	
17/11/2005	11:56:52	----------	Security Switch ON	
17/11/2005	11:56:35	----------	Cleared By User	
17/11/2005	11:56:25	-2--------	Reset	
17/11/2005	11:56:20	-2--------	Triggered	Recording | Switch | Dial Back
17/11/2005	11:25:58	----------	Disarm System	
17/11/2005	11:25:56	----------	Security Switch OFF	
17/11/2005	11:25:52	1---------	Reset	
17/11/2005	11:25:51	1---------	Triggered	Recording | Switch | Dial Back
17/11/2005	11:25:50	----------	Security Switch ON	
17/11/2005	11:25:48	1---------	Reset	
17/11/2005	11:25:47	1---------	Exit	Recording
17/11/2005	11:25:47	1---------	Reset	

Fig 8.3.3e

Fig 8.3.3e

Step 5 : Press **[Cancel]** button to exit **{Remote Event Log}** panel.

8.3.4 Siren

The siren can produce a "**Don**" sound in order to let user know an event trigger. User can set duration time for turning on the siren if event trigger.

Siren Duration Setup Procedure :

Step 1 : Click **[Event]** → **[Alarm]** → **[Option]** option on the main panel to pop up **{Alarm Option}** panel.

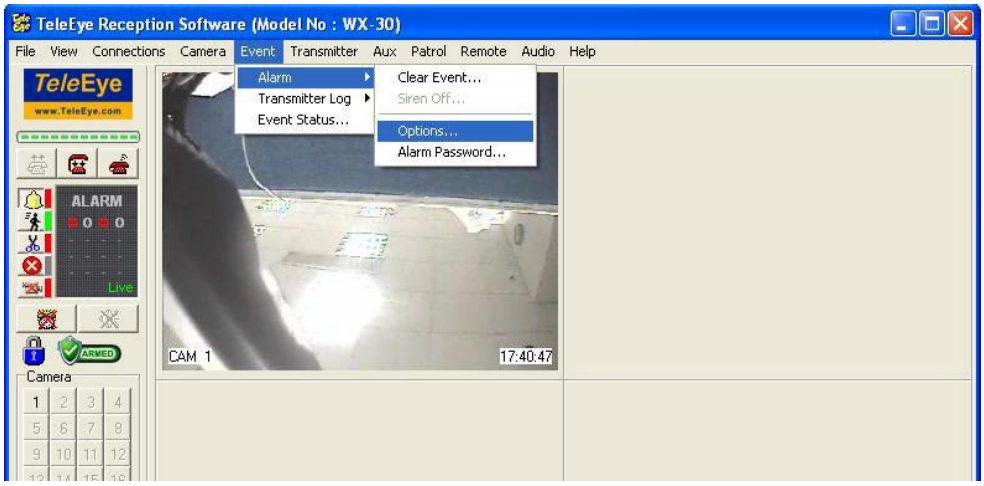


Fig 8.3.4a

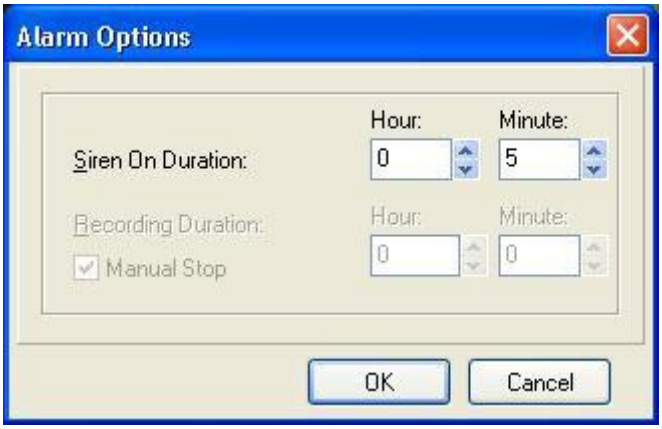


Fig 8.3.4b

Step 2 : Select the time for siren duration. Press **[OK]** button to complete the setting.

8.3.5 Clear Event

After an event reset, user can clear the event icon at the event panel. User needs to enter the alarm password in order to clear the event icon at the event panel.

Change Alarm Password Procedure :

Step 1 : Click **[Event]** → **[Alarm]** → **[Alarm Password]** option on the main panel.

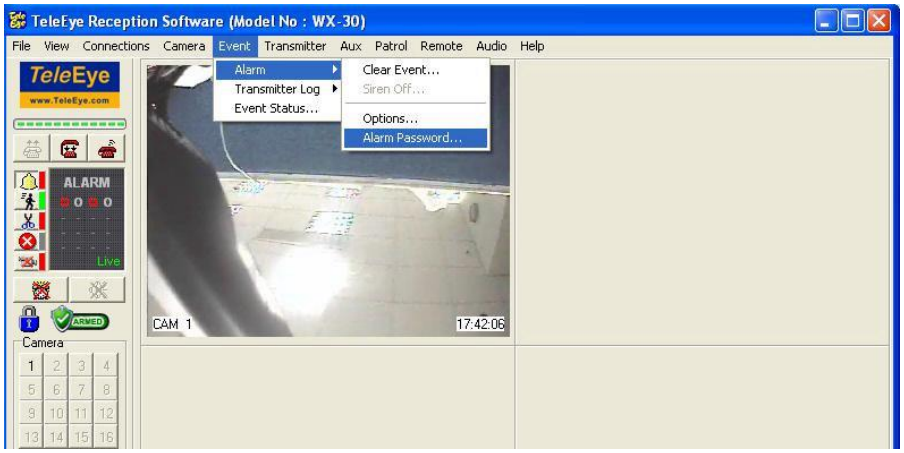


Fig 8.3.5a

Fig 8.3.5b

Step 2 : Enter old alarm password, new alarm password and confirm the password again. Press **[OK]** to complete the setting.

☞ Default alarm password is **000000**. Alarm password is saved in your PC, not *Tele***Eye RX** transmitter, so user can set different alarm password at different PC.

Clear Event

Clear Event Icon Procedure :

Step 1 : Click **[Clear Event]**  icon on the main panel.

Fig 8.3.5c

Fig 8.3.5d

Step 2 : Enter the alarm password. Press **[OK]** button to clear the event icon.

Section 9

Pan Tilt Zoom

9.1 PTZ Settings

*Tele*Eye RX transmitter can control pan tilt zoom camera for remote monitoring. The pan tilt zoom camera action can be activated by event triggered or manual control.

Pan Speed

The horizontal movement speed of the PTZ camera

Tilt Speed

The vertical movement speed of the PTZ camera

Pan Duration

The horizontal movement duration after pressing a **[Left]** or **[Right]** button

Tilt Duration

The vertical movement duration after pressing a **[Up]** or **[Down]** button

Zoom Duration

The zoom in or out duration after pressing a **[Zoom Tele]** or **[Zoom Wide]** button

Iris Duration

The open or close of iris duration after pressing a **[Open Iris]** or **[Close Iris]** button

Focus Duration

The focus duration after pressing a **[Focus Near]** or **[Focus Far]** button

Additional Duration

Some additional camera functions duration

Washer Duration

The action time taken for the washer of the PTZ camera

Wiper Duration

The action time taken for the wiper of the PTZ camera

Patrol Speed

The movement speed for one position to another position of the PTZ camera

Patrol Dwell Time

The time for the PTZ camera to stay at one position

☞ Due to different PTZ camera supports different driver operation, some PTZ camera settings may be **dimmed**. If there is any problem, please refer to the manual of the PTZ camera to read if the PTZ have that function or not.

PTZ Setting Procedure :

Step 1 : Click **[Transmitter Settings]** icon on the main panel and input the administrator password to pop up **{Transmitter Settings}** panel as shown on **Fig 9.1a**. Choose **[Video Input]→[PTZ]** option to do the PTZ camera settings.

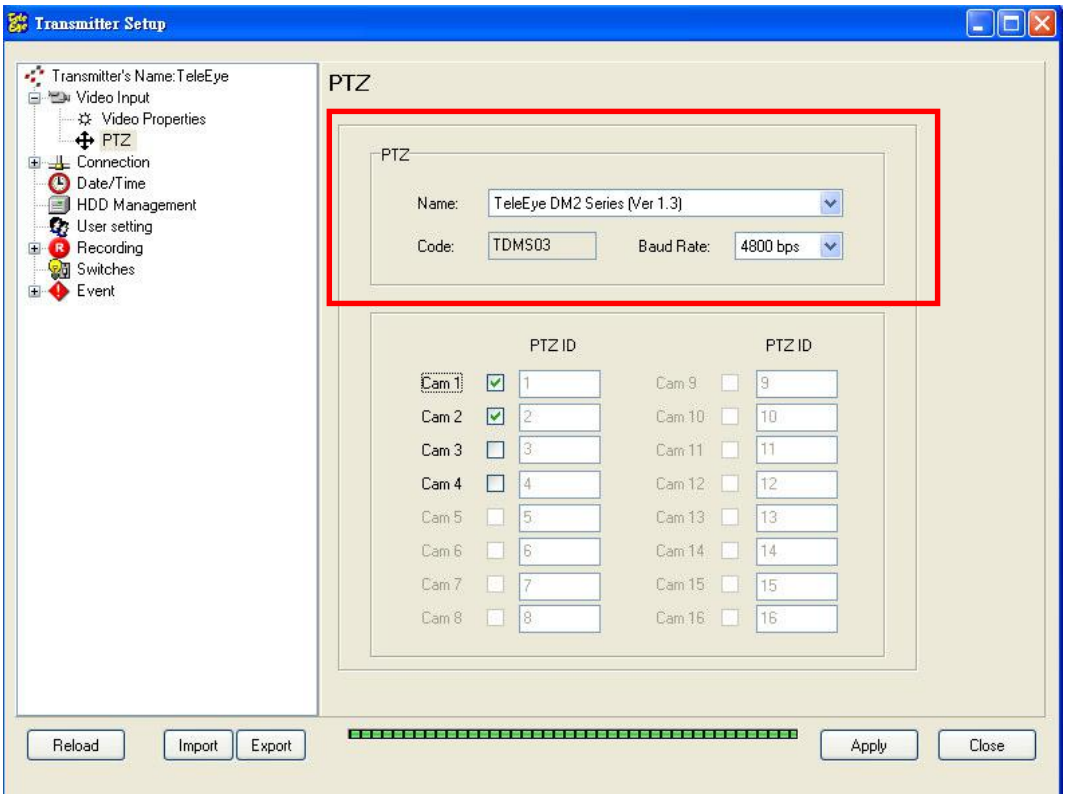
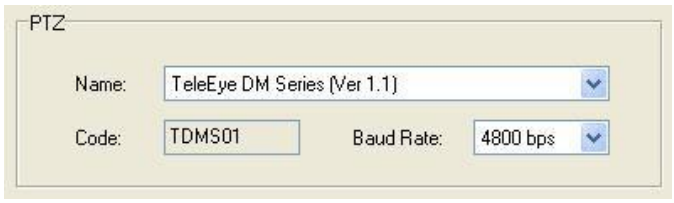


Fig 9.1a

PTZ Settings



Step 2 : Select the suitable PTZ driver and baud rate according to the PTZ camera.

Fig 9.1b

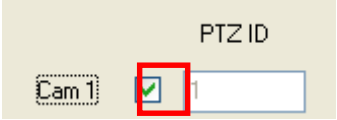


Fig 9.1c

Step 3 : Click **[PTZ]** checkbox to enable the camera as PTZ camera.

Change PTZ ID for external keyboard if necessary.

Normally, the PTZ camera needs to install at the camera number according to its camera ID in order to control it.

For further detail, please take a look on the camera or its manual in order to choose the above settings.

Step 4 : After clicking **[PTZ]** checkbox in step 3, user can enter **{Pan Tilt Zoom}** panel by click **[Pan Tilt Zoom]**  icon on the main panel as shown on **Fig 9.1d**.

PTZ Settings

Fig 9.1d

Step 5 : **{Pan Tilt Zoom}** panel pop up. User can do other PTZ settings and control the camera through this panel.

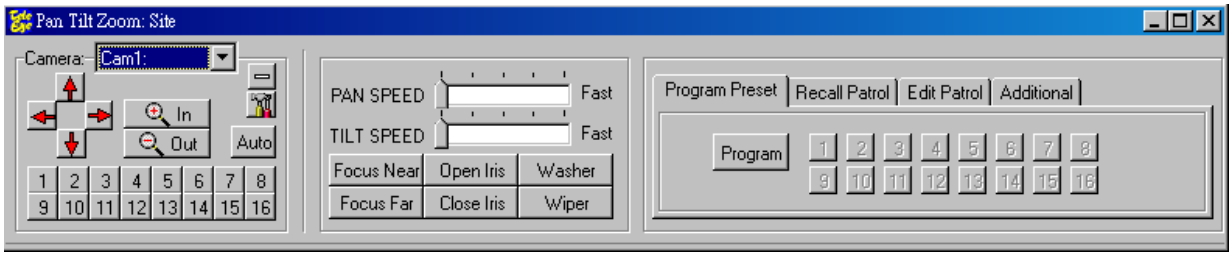
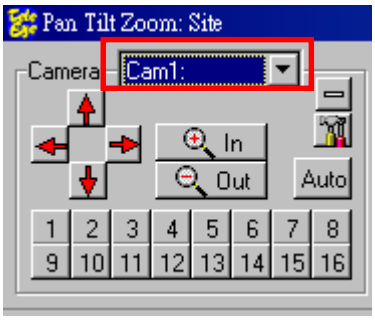


Fig 9.1e



Step 6 : User can select the PTZ driver and which PTZ camera to view. The cameras that can be selected at **[Camera]** option are the cameras selected at the checkbox in step 3.

Fig 9.1f

☞ The PTZ driver option in the panel CANNOT be saved in the transmitter, so it is used for testing or temporally use only.

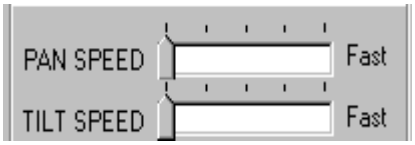


Fig 9.1g

Step 7 : Scroll the **[Pan Speed]** or **[Tilt Speed]** bar to select the pan speed and tilt speed respectively.

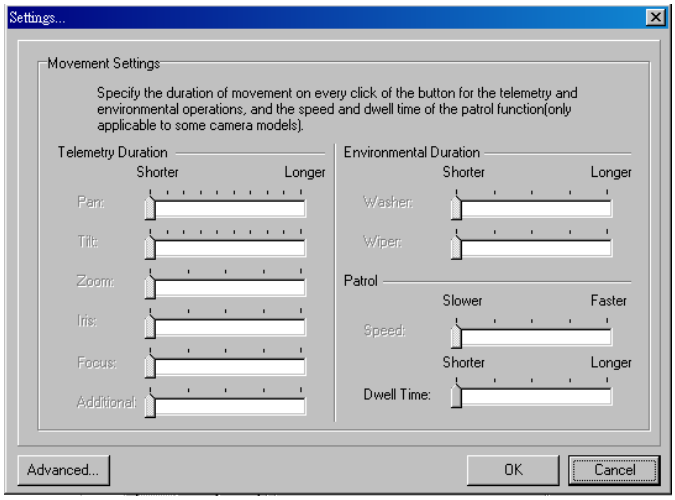


Fig 9.1h

Step 8 : Press **[PTZ Settings]** button on **{Pan Tilt Zoom}** panel to pop up this **{Setting}** panel to select pan duration, tilt duration, zoom duration, iris duration, focus duration and additional duration by scrolling the bar. Press **[OK]** to save the settings and exit the panel.

9.2 PTZ Control

There are several commands to control a PTZ camera manually using ***Tele*Eye Reception Software WX-30**.

PTZ Control Procedure:

Step 1 : Click **[AUX]** → **[Pan Tilt Zoom]** option or **[Pan Tilt Zoom]**  icon on the main panel to enter the **{Pan Tilt Zoom}** panel as shown on **Fig 9.2b**.

Fig 9.2a

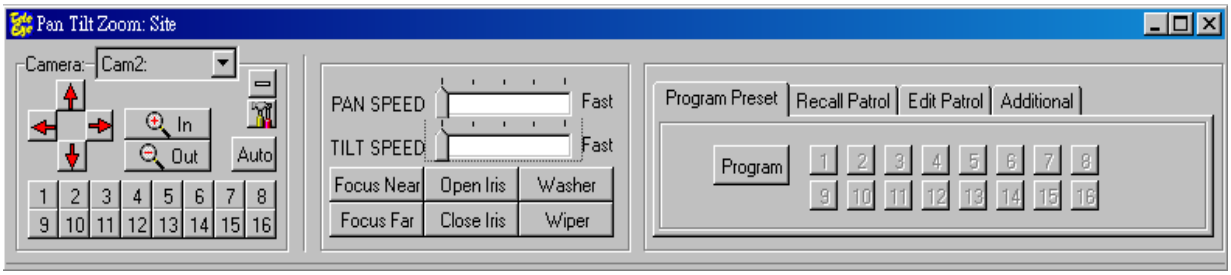


Fig 9.2b

{Pan Tilt Zoom} Panel Description :

Pan/Tilt Control Button

It contains **[Up]**, **[Down]**, **[Left]** and **[Right]** arrow icon. **[Up]** and **[Down]** arrow icons (as shown on **Fig 9.2c**) to tilt the camera up and down respectively and **[Left]** and **[Right]** arrow icons to pan the camera left and right respectively. To set the camera pan left and right automatically (i.e. auto-pan function), click the auto button and the button will be held down. To cancel the auto-pan function, click button again.

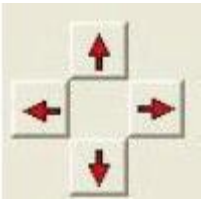


Fig 9.2c

☞ When auto pan is enabled, manual pan will be disabled

☞ Some speed dome cameras do not support the auto-pan function. In this case, the auto-pan function will take no operation when the auto button is pressed.

Zoom Lens Control Button

It contains **[Focus Far]**, **[Focus Near]**, **[Open Iris]**, **[Close Iris]**, **[Washer]**, **[Wiper]** button (as shown on **Fig 9.2d**) for adjusting zoom, focus and iris of the camera.

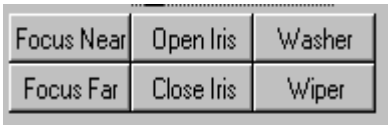


Fig 9.2d

Environmental Control

It contains **[Washer]** and **[Wiper]** buttons (as shown on **Fig 9.2e**). The **[Washer]** and **[Wiper]** buttons switch on the washer and wiper respectively in the remote camera house.

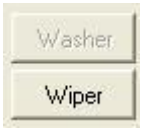


Fig 9.2e

Recall Preset Tab

It contains 16 numeric buttons for 16 preset locations. For each button, user should set the position in the **[Program Preset]** tab. The PTZ camera view moves to the pre-defined preset location when the button is clicked if that button is set in **[Program Preset]**.

Program Preset Tab

It is used to configure the desired direction and lens' settings as the pre-defined position(s).

Recall Patrol Tab

It contains 4 patrol and stop buttons, which are used to activate the patrol tours of the selected PTZ camera model. When the **[Patrol 1,2,3,4]** button is clicked, the camera starts the tour until the patrol operation is cancelled (i.e. **[Stop Patrol]** button is pressed).

Edit Patrol Tab

It contains 16 numeric buttons, which can be used to associate preset points with patrol tour. The **[Add]** and **[Delete]** buttons are used to add or delete preset points in the patrol tour.

Additional Tab

It contains 10 auxiliary buttons, which allow the user to customize the camera operation to meet special requirement. The first 5 buttons (Aux 1 to Aux 5) are momentary buttons, while the rests (Aux 6 to Aux 10) are latch buttons. To add commands to the auxiliary buttons, the alteration of the Command Table is involved. Therefore it is recommended to advance users only.

Program Preset Procedure :

Fig 9.2f

Step 1 : In **{Pan Tilt Zoom}** panel, click **[Program Preset]** tab and click the **[Program]** button to define the camera view position.

Fig 9.2g

Step 2: Use **[Pan Tilt Zoom]** control button to set the PTZ camera to any position. Click any numerical button (1 to 16) to store the preset position.

Recall/Edit Patrol Procedure :

Fig 9.2i

Step 1 : In **{Pan Tilt Zoom}** panel, click **[Edit Patrol]** tab and click the **[Add]** button to add more positions.

Fig 9.2j

Step 2 : Click **[Recall Patrol]** tab. The PTZ camera will start it patrol tour if the recall number is added. Press **[Stop Patrol]** to stop the patrol tour.

☞ Due to different PTZ camera supports different driver operations, there MAY be **no** or **wrong** PTZ operations after pressing some buttons. If there is any problem, please refer to the manual of the PTZ camera.

9.3 PTZ Advance Settings

This part introduces the advance PTZ camera settings. Actually, normal user can omit this part. It is only necessary for advance PTZ camera users.

PTZ Advance Settings Procedure :

Step 1 : Enter **{Pan Tilt Zoom}** panel by click **[Pan Tilt Zoom]**  icon on the main panel as shown on **Fig 9.1d**. Press **[Settings]** button on **{Pan Tilt Zoom}** panel to pop up this **{Setting}** panel a shown on **Fig 9.1e**. Press **[Advance]** button on **{Setting}** panel to enter the advance settings on **Fig 9.1h**. **{PTZ Command Table}** pop up.

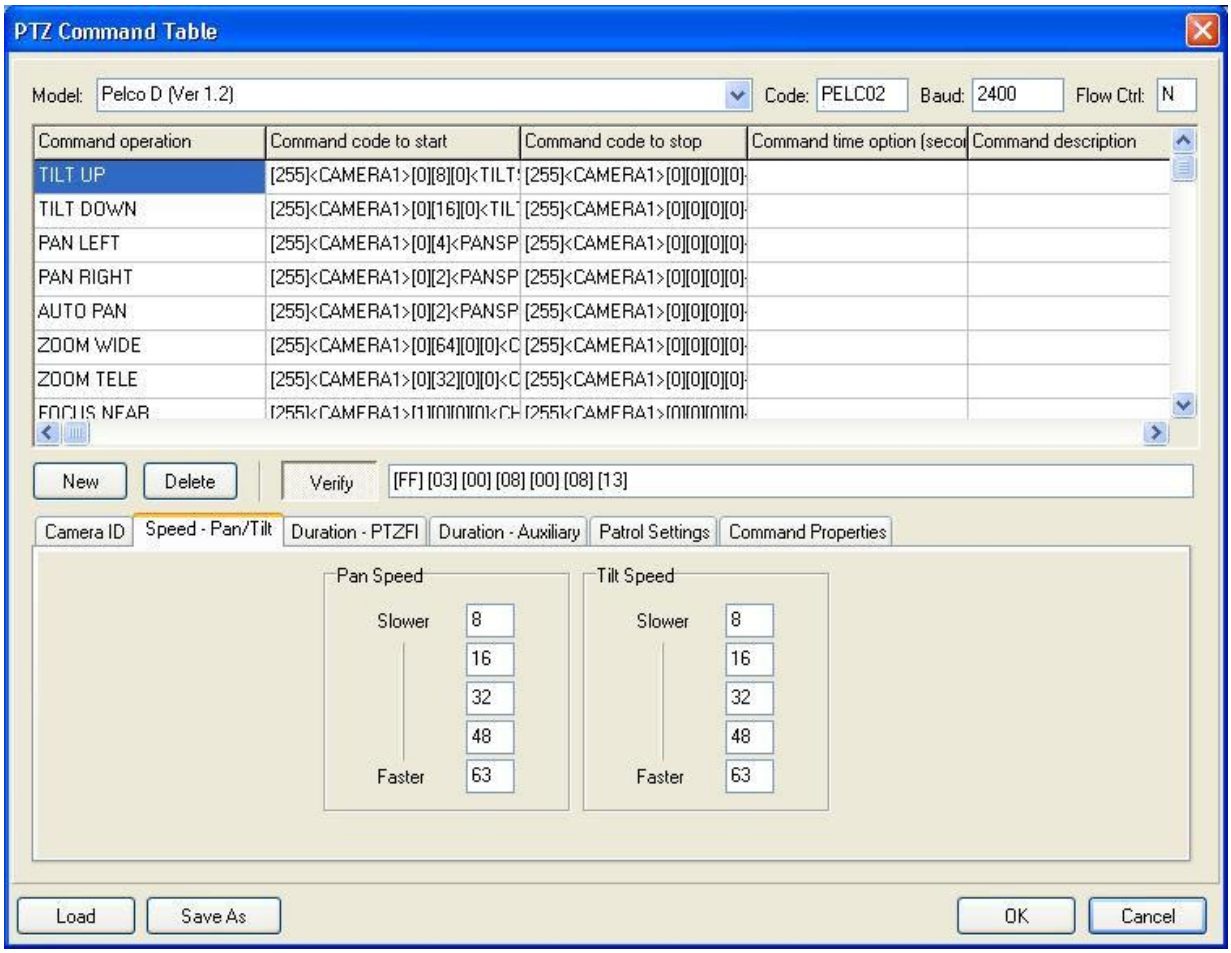


Fig 9.3a

Step 2 : Press **[Camera ID]** tab and enter the value to compute the value of camera ID

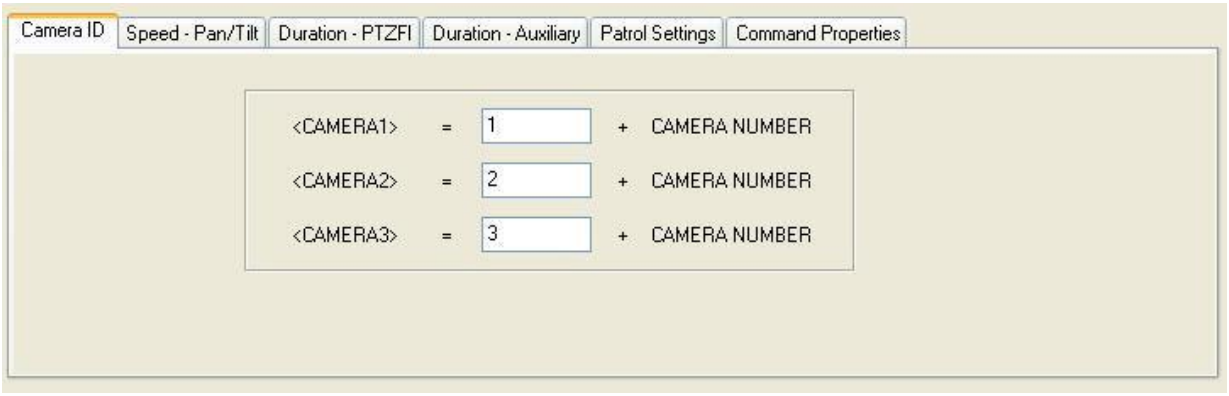


Fig 9.3b

For example, The PTZ camera is installed at camera 4 and input value 1.

<CAMERA1> = 1+4-1 = 4 (decimal) = [04] (hexadecimal)

Step 3 : Press **[Speed – Pan/Tilt]** tab and set the values for the PTZ settings in details. Input the value for the 5 levels of slowest, slow, middle, fast and fastest of the pan or tilt speed. **[Duration-PTZFI]**, **[Duration-Auxiliary]** and **[Patrol Settings]** tabs are in similar way.

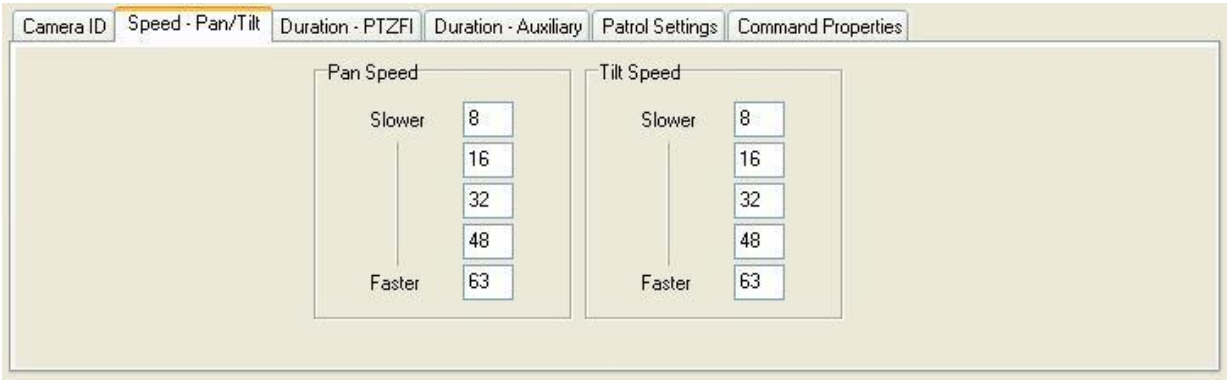


Fig 9.3c

Duration Factor : The actual value need to multiply with this duration factor and then send out to the PTZ camera.

PTZ Advance Settings

Step 4 : Choose the method to compute the value of <Checksum 1> and <Checksum 2>.

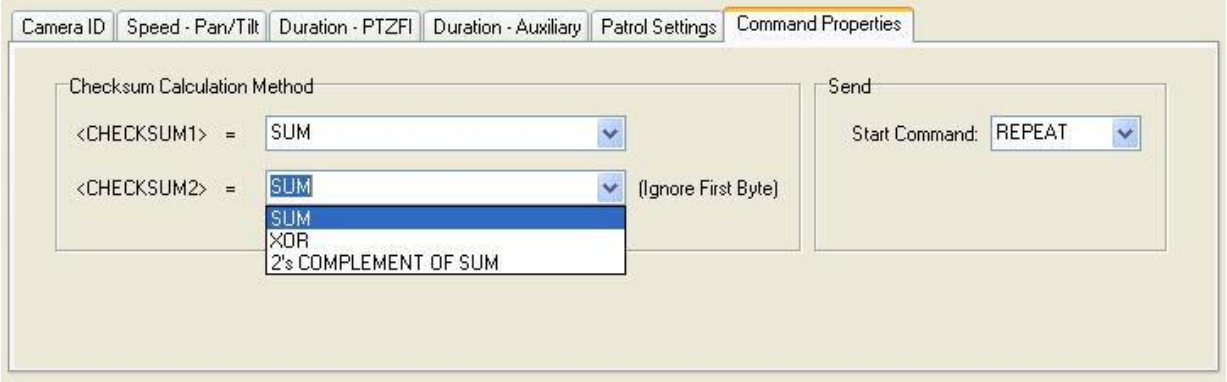


Fig 9.3d

Step 5 : The PTZ commands are listed on this table. Press **[New]** to add new command. Press **[Delete]** to delete the command. These PTZ commands will be sent out from the RS485 port on the rear panel of the transmitter in order to control the PTZ camera.

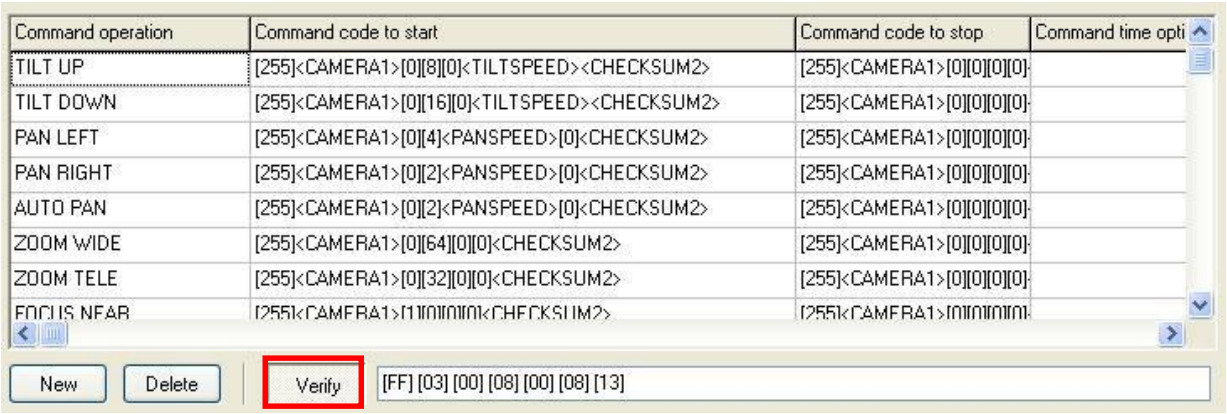


Fig 9.3e

User can press **[Verify]** button to verify the output code is correct or not. For example, user clicks the row **[TILT UP]** (the 1st row on **Fig 9.3e**) on the table.

Command code to start : [255] <CAMERA1>[0] [8] [0] <TILTSPEED><CHECKSUM2>

Verify (Hexadecimal display) : [FF] + [03] + [00] + [08] + [00] + [08] = [13]

(Using SUM calculation method)

PTZ Advance Settings

The command and syntax is shown as table below :

Variable Name	Command	Default Value (in second)
Camera name	<CAMERA1>, <CAMERA2>,…	-
Pan speed	<PANSPEED>	-
Tilt speed	<TILTSPEED>	-
Pan duration	<PANDURATION>	1
Tilt duration	<TILTDURATION>	1
Zoom duration	<ZOOMDURATION>	0.1
Focus duration	<FOCUSDURATION>	0.1
Iris duration	<IRISDURATION>	0.1
Additional duration	<AUXDURATION>	0.1
Washer duration	<WASHERDURATION>	0.1
Wiper duration	<WIPERDURATION>	0.1
Patrol speed	<PATROLSPEED>	-
Patrol dwell time	<PATROLDWELLTIME>	-

Fig 9.3f

Step 6 : Press **[Save As]** to save the setting as another driver. Press **[Load]** to load another driver to do the settings.

Fig 9.3g

Step 7 : Press **[OK]** to save the current settings and exit the panel.

Section 10

Switches

10.1 Switches Settings

*Tele*Eye RX transmitter supports to control 4 external relays (switches) by event driven or manually. User is recommended to define the type and delay of the switches before using.

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.

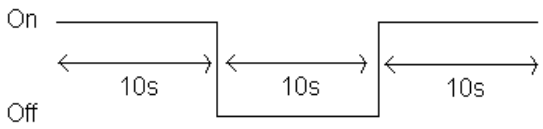


Fig 10.1a

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.

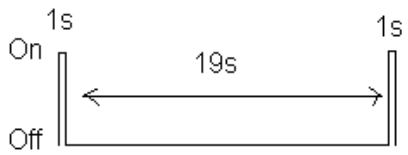


Fig 10.1b

Switches Setup Procedure :

Step 1 : Click **[Transmitter Settings]**  icon on the **{Main Panel}**. Enter the administrator password to pop up **{Transmitter Setup}** panel. Click **[Switches]** option as shown on **Fig 10.1c**.

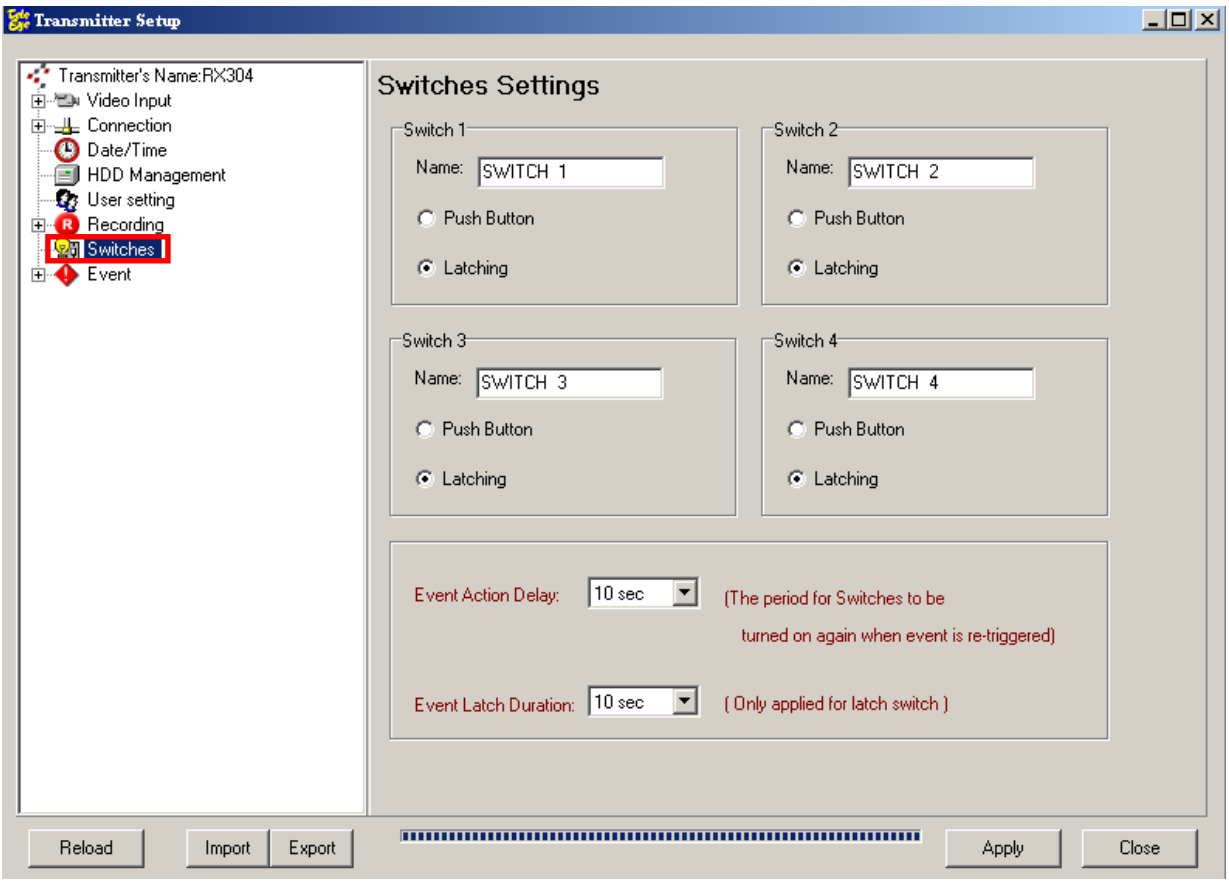


Fig 10.1c

Fig 10.1d

Step 2 : Edit the name of the switch.

Fig 10.1e

Step 3 : Click **[Push Button]** or **[Latching]** option for switch type.

Switches Settings

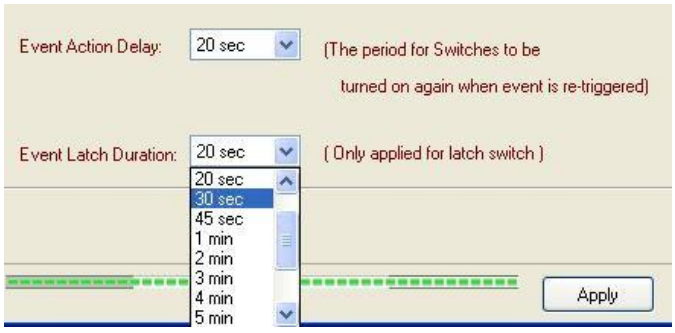


Fig 10.1f

Fig 10.1g

Step 4 : Click **[Event Action Delay]** to select the time switch action delay. Click **[Event Latch Duration]** to select the time switch latch duration. Press **[OK]** button to exit the panel.

Step 5 : Press **[Apply]** button on **{Transmitter Setup}** panel to save the setting to the transmitter.

10.2 Switches Control

***Tele*Eye Reception Software WX-30** supports manually switch control.

Switches Control Procedure :

Step 1 : In the main panel, click **[Switch]**  icon to pop up the **{Switch Control}** panel as shown on **Fig 10.2a**.

Fig 10.2a

Fig 10.2b

Step 2 : Press **[1]**, **[2]**, **[3]** or **[4]** button to set the corresponding switch on or off.

Fig 10.2c

Step 3 : For example of switch state as shown on **Fig 10.2c**, **[2]** and **[4]** button are ON state and **[1]** and **[3]** button are OFF state.

Fig 10.2d

Step 4 : Click **[Close]** icon or **[Switch]** icon to close the **{Switch Control}** panel.

User cannot control the switch 1 or switch 2 if switch 1 and switch are associated with arm/disarm input and security switch respectively. In additions, **[1]** and **[2]** button are dim (disable) on **{Switch Control}** panel as shown on **Fig 10.2e**.

Fig 10.2e

For arm/disarm input and security switch associate with switch 1 and 2 setup, please refer to P.63 of Section 8.2.1: Arm/Disarm or P.66 of Section 8.2.2: Security Switch.

Section 11

Log & Picture Backup

11.1 Open & Save Picture

***Tele*Eye Reception Software WX-30** supports to open and save picture (including snapshots of each camera) in **Window bitmap (BMP)** format.

Open & Save Picture Procedure :

Step 1 : Click **[File]** → **[Open Picture]** option on the main panel to pop up **{Open Bitmap}** panel.

Fig 11.1a

⇩

Open & Save Picture

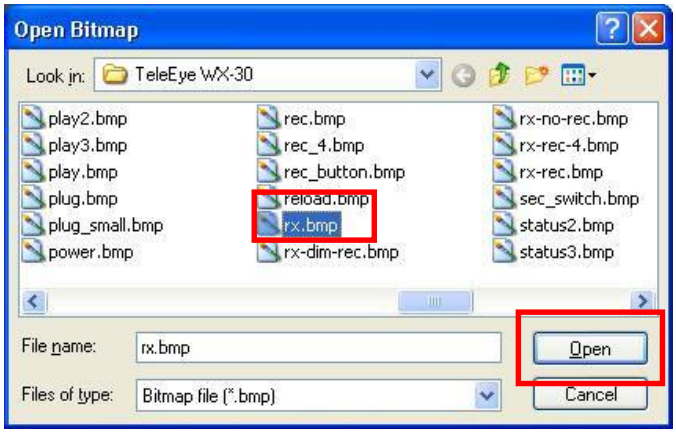


Fig 11.1b

Step 2 : Select a picture file with the bitmap format in the window platform and press **[Open]** button as shown on **Fig 11.1b**. The **{Picture Viewer}** panel will pop up.

Fig 11.1c

Step 3 : In **{Picture Viewer}** panel, press **[Save As]** icon to pop up **{Save Bitmap}** panel.

User can click **[Open]** icon to enter **{Open Bitmap}** panel and select a picture file again.

User can click **[Close]** button to cancel the operation and go back to the main panel.

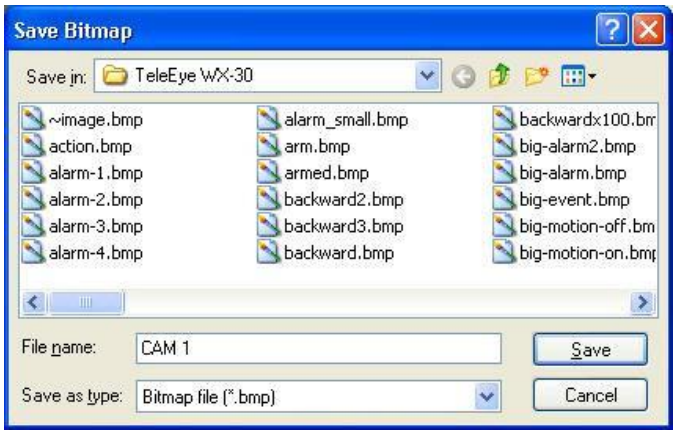


Fig 11.1d

Step 4 : Choose the path, type a file name in the text box and press **[Save]** button to save the picture and go back to the main panel.

Save Picture (Snapshot of a Camera) Procedure :

Step 1 : Click a camera button on the **{Camera}** panel.

Step 2 : Click **[File]** → **[Save Picture]** option or **[Save Picture]**  icon on the main panel and **{Picture Viewer}** panel will pop up.

Fig 11.1e

☞ Snapshot size of the camera depends on the camera screen resolution.

⇩

Fig 11.1f

Step 3 : In **{Picture Viewer}** panel, press **[Save As]**  icon to pop up **{Save Bitmap}** panel.

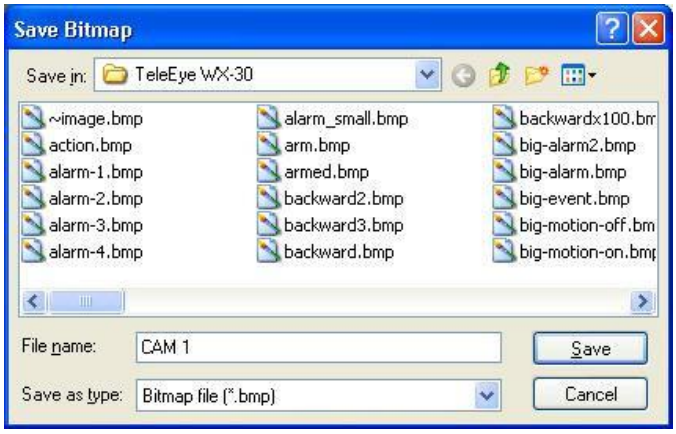


Fig 11.1g

Step 4 : Choose the path, type a file name in the text box and press **[Save]** button to save the picture and go back to the main panel.

11.2 Preview

***Tele*Eye Reception Software WX-30** supports to preview a picture for printing.

Preview Picture Procedure :

Step 1 : In **{Picture Viewer}** panel, click **[Preview]**  icon to pop up **{Preview}** panel as shown as **Fig 11.2b**.

Fig 11.2a

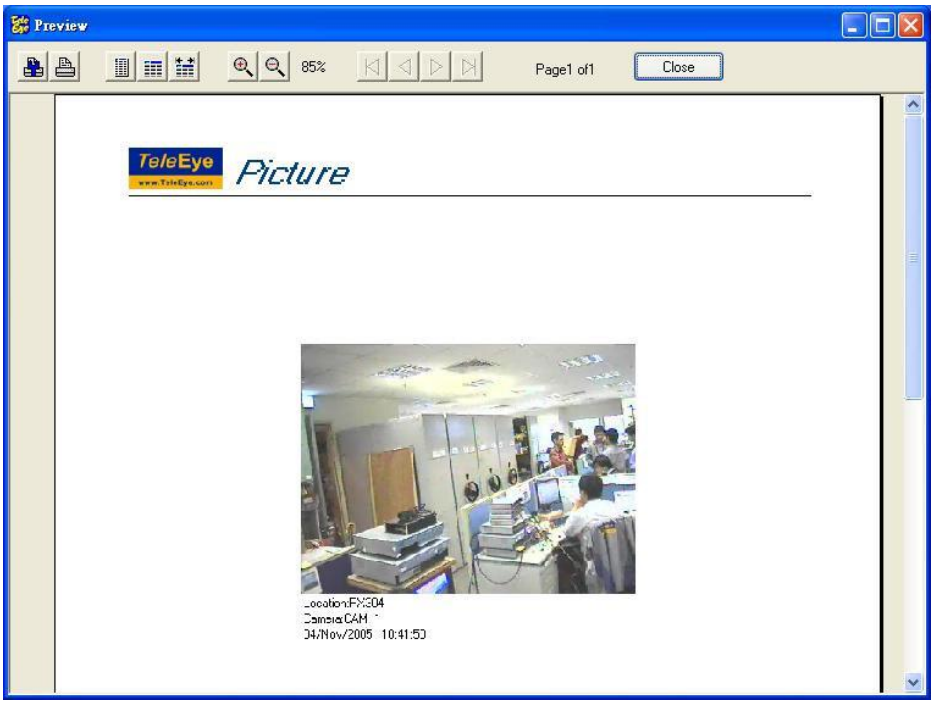


Fig 11.2b

Fig 11.2c

Step 2 : In **{Picture Viewer}** panel, user can click the icons for different size of preview as shown on **Fig 11.2c**.

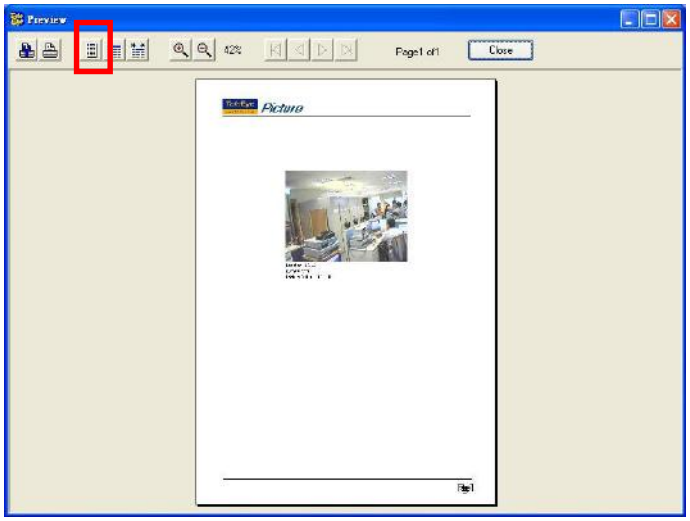


Fig 11.2d

Step 3 : Click **[Fit Page]**  icon to preview the picture in fit page size as shown in **Fig 11.2d**.

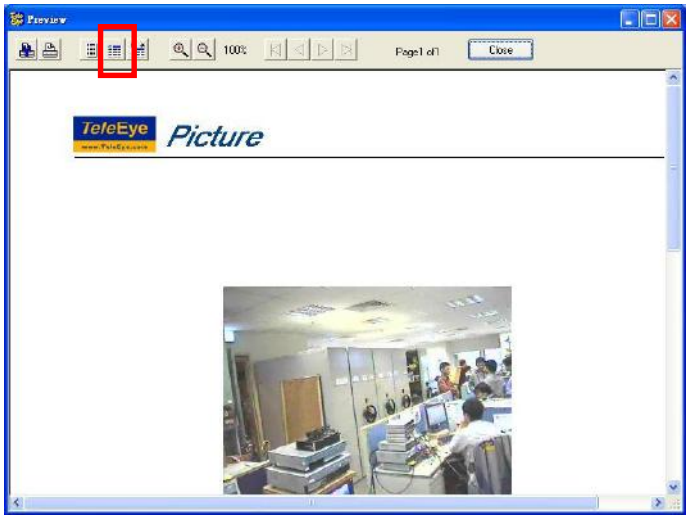


Fig 11.2e

Step 3: Click **[100%]**  icon to preview the picture in 100% A4 paper size as shown in **Fig 11.2e**.

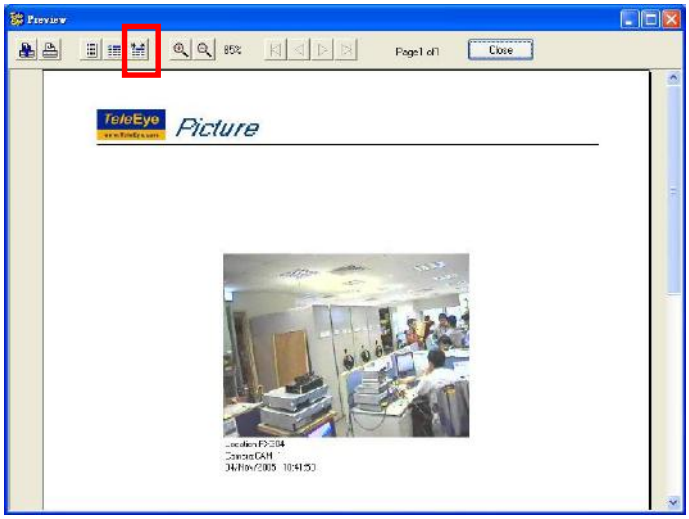


Fig 11.2f

Step 4: Click **[Fit Page Width]** icon to preview the picture as same width size of **{Preview}** panel width size as shown in **Fig 11.2f**.

Fig 11.2g

Step 5: Click **[Zoom In]** or **[Zoom Out]** icon to preview the picture in higher or lower % picture size as shown in **Fig 11.2g**.

11.3 Printer Setup & Printing

***Tele*Eye Reception Software WX-30** supports to print a picture in A4 paper and printer setup.

Printer Setup & Printing Procedure :

Fig 11.3a

Step 1 : In **{Picture Viewer}** or **{Preview}** panel, click **[Printer Setup]** icon to pop up **{Printer Setup}** panel as shown on **Fig 11.3b** or click **[Printing]** icon to print the current picture in A4 paper size.

☞ User should setup the Printer in **{Printer Setup}** panel as shown on **Fig 11.3b** for each printing.

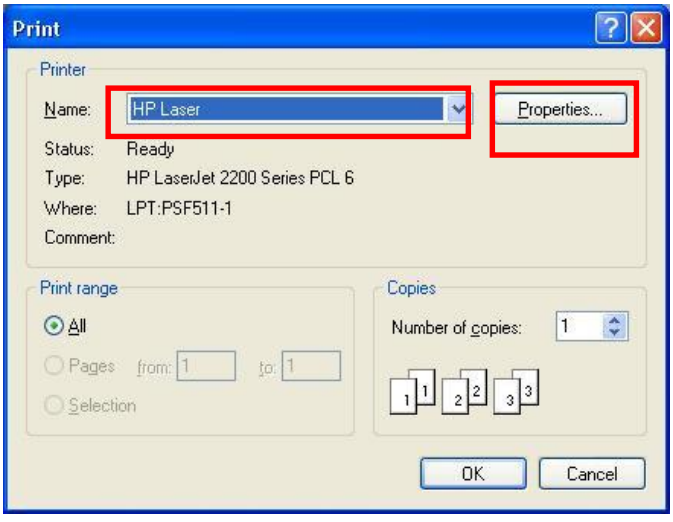


Fig 11.3b

Step 2: Select a printer name and press **[Properties]** button to setup the Printer. After setting up the properties of printer, press **[OK]** button to enter preview panel again. Click **[Printing]** icon to print the current picture.

Section 12

Connection Scheduler

***Tele*Eye Reception Software WX-30** enables the PC to connect or disconnect to different transmitters at different pre-defined time automatically.

Open Scheduler Procedure :

Step 1 : Click **[Patrol]** → **[Scheduler]** option on the main panel to pop up **{Scheduler}** panel as shown on **Fig 12b**.

Fig 12a

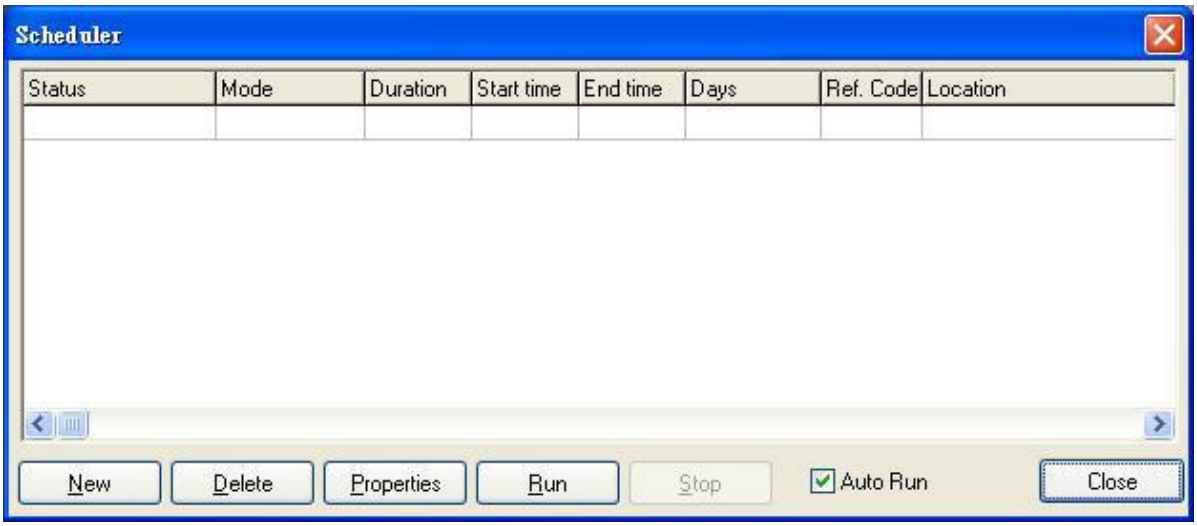


Fig 12b

{Scheduler} Panel Column Description :

Status

It is the process status of the schedule.

- Completed : The schedule process is completed.
- Connected : The PC is connected to transmitter.
- Running : The schedule process is running.
- Fail : The schedule process is fail.

Mode

Each schedule contains four modes for patrol.

- Auto Connect : Connect to remote site as *Tele***Eye Reception Software WX-30** starts up.
- Schedule : Pre-defined connection given by start time and stop time.
- Continuous : Continuous connection for a specified duration of time.
- Stop : Stop the scheduler or automatic connection.

Duration

It is the time duration for continuous mode

Start Time

It is the time for starting connection between the PC and the transmitter.

End Time

It is the time for disconnecting between the PC and the transmitter.

Days

It is the days of schedule for schedule mode.

Ref. Code

It is the reference code for the transmitter in the phone book.

Location

It is the location of the site in the phone book

Recording **

It is the PC recording status of the schedule setting.

Camera

It is the camera status of the schedule setting.

Screen

It is the screen mode status of the schedule setting

Last Started

It is the last date of starting the schedule.

Last Ended

It is the last date of completing the schedule.

** : This function will be supported in *Tele***Eye Reception Software WX-30** version 2.00.00 or later.

{Scheduler} Panel Button Description :

Auto Run

Run Scheduler automatically when *Tele***Eye Reception Software WX-30** starts up

Run

Start Scheduler manually

Stop

Stop Scheduler manually

New

Create a new schedule

Delete

Delete stored schedule

Properties

Edit stored schedule

12.1 New Schedule

In *Tele*Eye Reception Software WX-30, user can create schedules for connection between PC and different *Tele*Eye RX transmitters. Scheduler supports auto connect, schedule, continuous and stop mode.

Schedule Setup Procedure :

Fig 12.1a

Step 1 : Click **[New]** button on **{Scheduler Option}** panel to pop up **{Patrol}** panel as shown on **Fig 12.1b**.

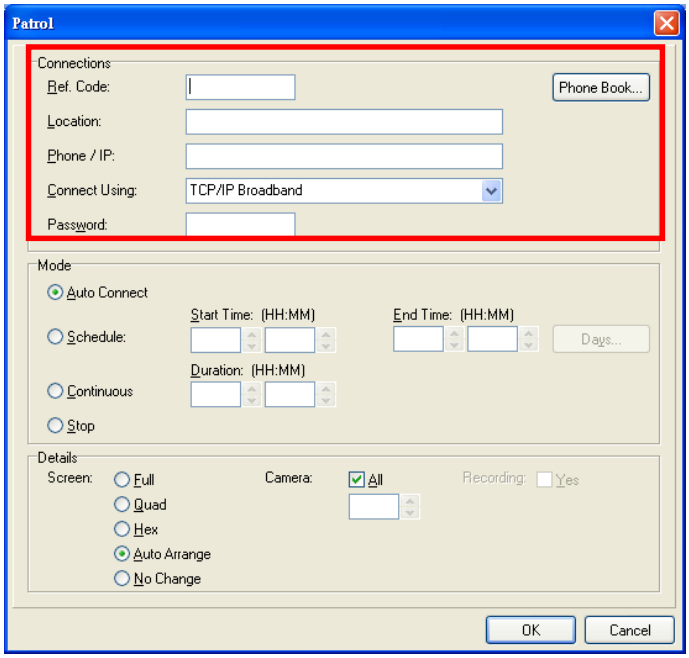


Fig 12.1b

Step 2: Fill in the information for location, IP, password, etc in the connections part or click **[Phone Book]** button to select a connection record.

For add phone book procedure, please refer to P.11 of Section 3.1: Connect *Tele*Eye RX

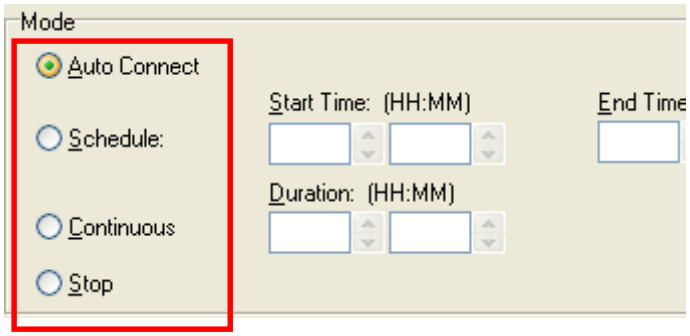


Fig 12.1c

Step 3: Select **[Auto Connect]** for auto connect mode or select **[Schedule]** for schedule mode or select **[Continuous]** for continuous mode or select **[Stop]** mode for stop mode.

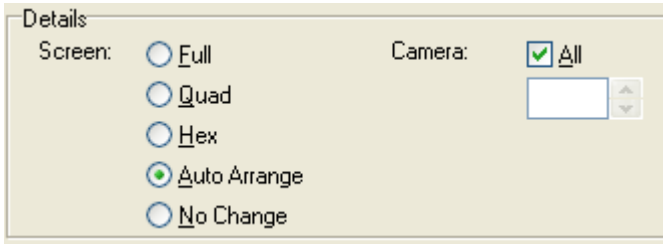
☞ For schedule mode, user should input the start time and end time and user can click **[Day]** button to select the days for connecting the remote site.

☞ For continuous mode, user should input duration time.

☞ Stop mode is designed for continuous mode only.

☞ Never setup stop and schedule modes together in the program or no schedule can be performed.

☞ The scheduler takes reference to the computer's time and date. Make sure they are correctly set in the computer.



Step 4 : For details part, user should select the display mode and cameras as shown on **Fig 12.1d**.

Fig 12.1d

New Schedule

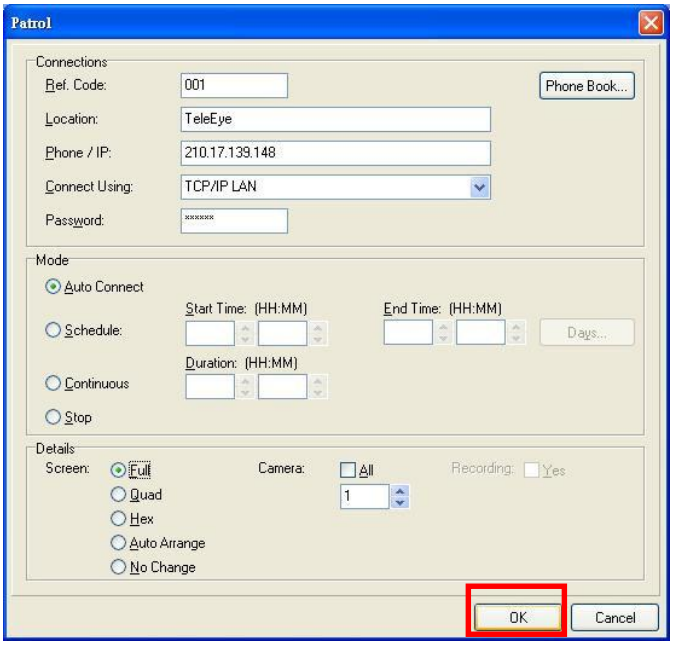


Fig 12.1e

Step 5: Click **[OK]** button to save and exit the patrol or click **[Cancel]** to cancel this patrol and go back to **{Scheduler}** panel.

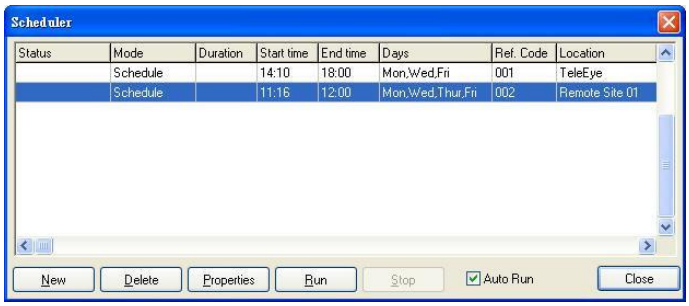


Fig 12.1f

Step 6: User can click **[New]** button again to create a new schedule.

Click **[Run]** button to start the scheduler and **[Auto Run]** is used for running scheduler when *Tele***Eye Reception Software WX-30** starts up.

Click **[Close]** button to exit the **{Scheduler}** panel.

☞ The scheduler runs each patrol entry from up to down entry and repeats all the patrol entries if the scheduler is not stopped.

☞ The scheduler never stops except user click **[Stop]** button or stop schedule exist.

New Schedule

12.2 Delete Schedule and Change Properties

User can delete the existing schedule or change its properties in scheduler.

Delete or Change Schedule Procedure :

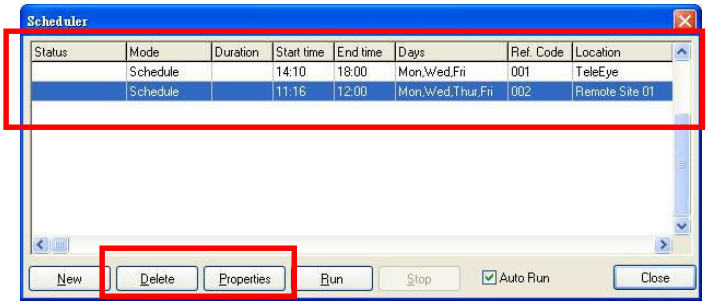


Fig 12.2a

Step 1 : Click **[Stop]** button to stop the scheduler.

Select a schedule for deleting or editing in the **{Scheduler}** panel as shown on **Fig 12.2a**.

Click **[Delete]** button to delete the schedule and go to step 2.

Click **[Properties]** button to edit the schedule and go to step 3.

Fig 12.2b

Step 2: Click **[Yes]** button to delete the schedule or click **[No]** to cancel the operation on the **{Delete}** panel.

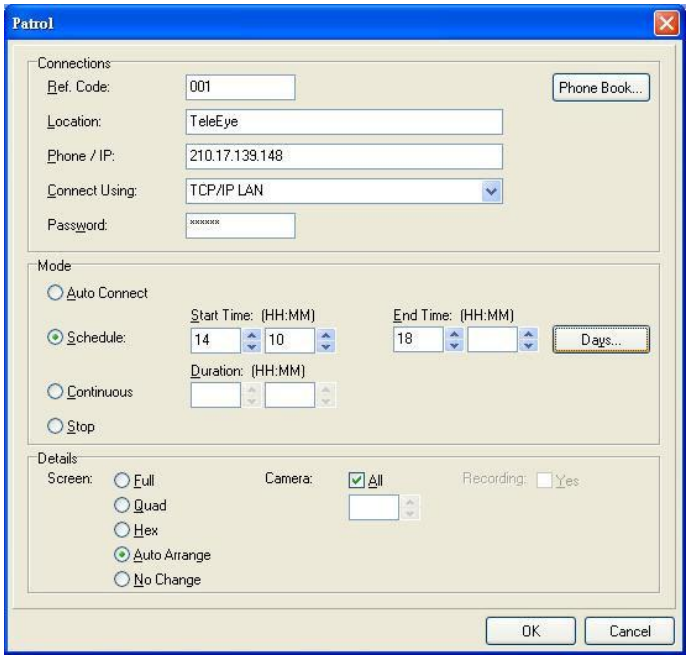


Fig 12.2c

Step 3: User can edit the connection, change mode and change display mode in the **{Patrol}** panel.

Click **[OK]** button to save the schedule after editing the schedule and go back to **{Scheduler}** panel.

Delete Schedule and Change Properties

Section 13

Audio Control

Audio can receive audio and video from the remote site at the same time. This control also supports pre-recorded voice files for playing in the remote site.

13.1 Pre-recorded voice file setting

Step 1 : Click **[TeleEar]** button on **{Main Panel}**

Fig 13.1a

Delete Schedule and Change Properties

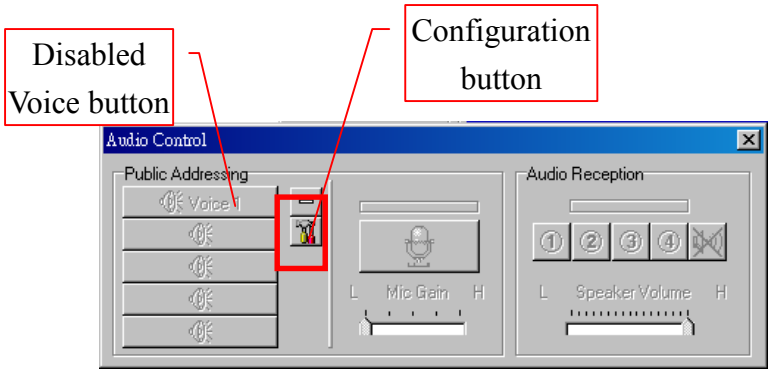


Fig 13.1b

Step 2 : **{Audio Control}** panel will pop up. By default, all the **[Voice]** buttons are disabled because no wave file path is selected. To select the paths, click **[Configuration]** button

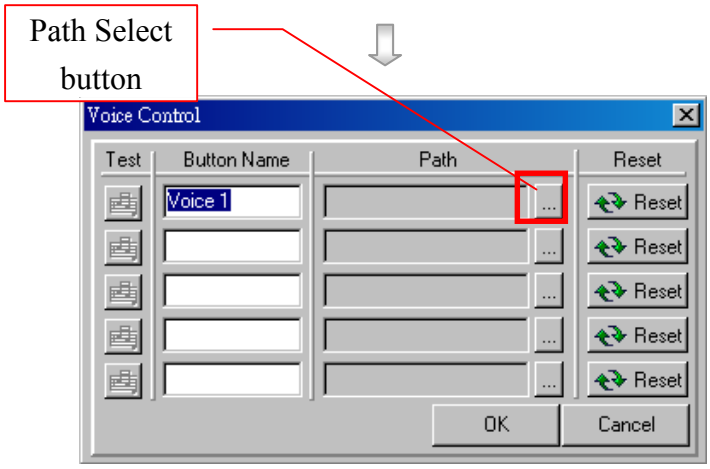


Fig 13.1c

Step 3 : **{Voice Control}** panel will pop up. Input the name into the boxes provided can change the captions of the voice buttons. Click on the **[Path Select]** button to input the path.

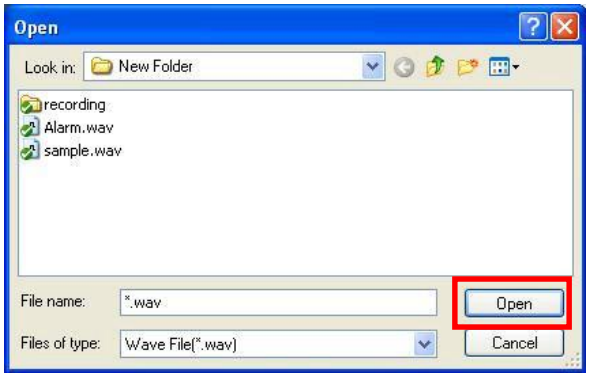


Fig 13.1d

Step 4: **{Open}** panel will pop up. Select the path of the wave file and click open.

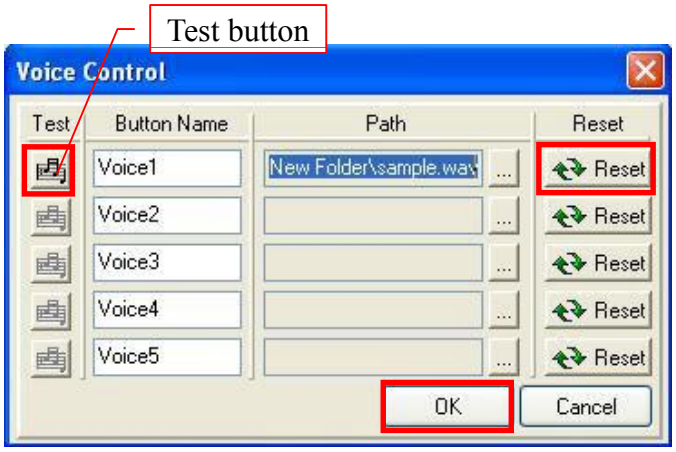


Fig 13.1e

Step 5 : **[Test]** button will be enabled after the corresponding wave file path is selected. Click on **[Test]** button to test the sound related to the selected path.

Click on **[Reset]** button will clear the corresponding path.

Click on **[OK]** button to save the setting and quit.

☞ Only the wave files with file format of 8000 sampling rate and mono can be used.

Fig 13.1f

Step 6 : **[Voice]** button with a saved path setting will be enabled. Click the enabled **[Voice]** button will transmit the voice data to the remote site and play with the audio device.

Click **[Voice]** button again to stop voice file from playing.

Fig 13.1g

Step 7 : Click **[Minimize]** button and make **{Audio Control}** panel minimized. (as shown in Fig 13.1g)

Delete Schedule and Change Properties

13.2 Audio control

Step 1 : Set **[Main Panel]** → **[Audio]** →**[On]**

Fig 13.2a

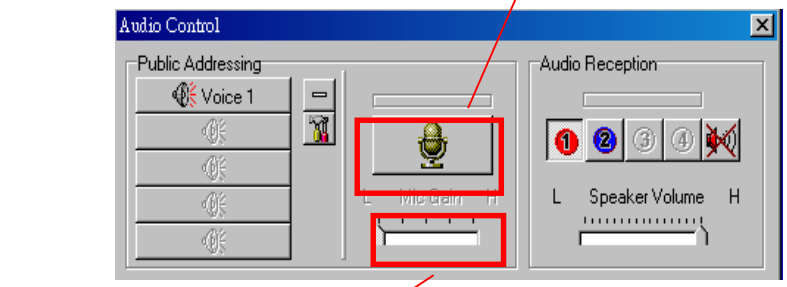


Fig 13.2b

Step 2 : In **{Audio Control}** Panel , Click **[Remote Public Addressing]** button to enable the transmission of voice to the remote sites. Click on this button again to disable the transmission. The **Volume Level Bar** indicates the current volume level of the microphone.

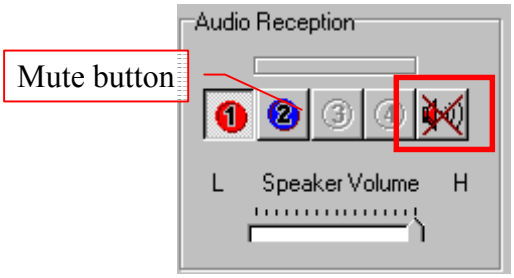


Fig 13.2c

Step 3 : Click on **[Mute]** button can choose whether or not muting the active audio channel

Section 14

Trouble Shooting

Problems

Problem 1 : I am trying to connect to the transmitter using the software through the TCP/IP network, but the connection cannot be established and there is no video updated on the software.

Solution :

- Make sure *Tele*Eye RX transmitter is power on.
- Make sure the transmitter and your PC is connected to the network. If the network configuration is not complete, please refer to *Tele*Eye RX User Guide Section 3 : **Basic Installation for Local and Remote Monitoring** in order to complete the network settings.
- Make sure the video source is connected to the transmitter.

Problem 2 : No event dial back when an event is triggered.

Solution :

- Make sure you set dial back as the associate action of the event.
- Make sure the software is in **standby mode**.

Problem 3 : PTZ camera does not function.

Solution :

- Make sure the PTZ is functioning properly.
- Check the PTZ camera ID. The camera ID should be as same as the camera number.

Section 15

Appendix

15.1 *sure*LINK Technology

sure*LINK** technology is available in *TeleEye 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).

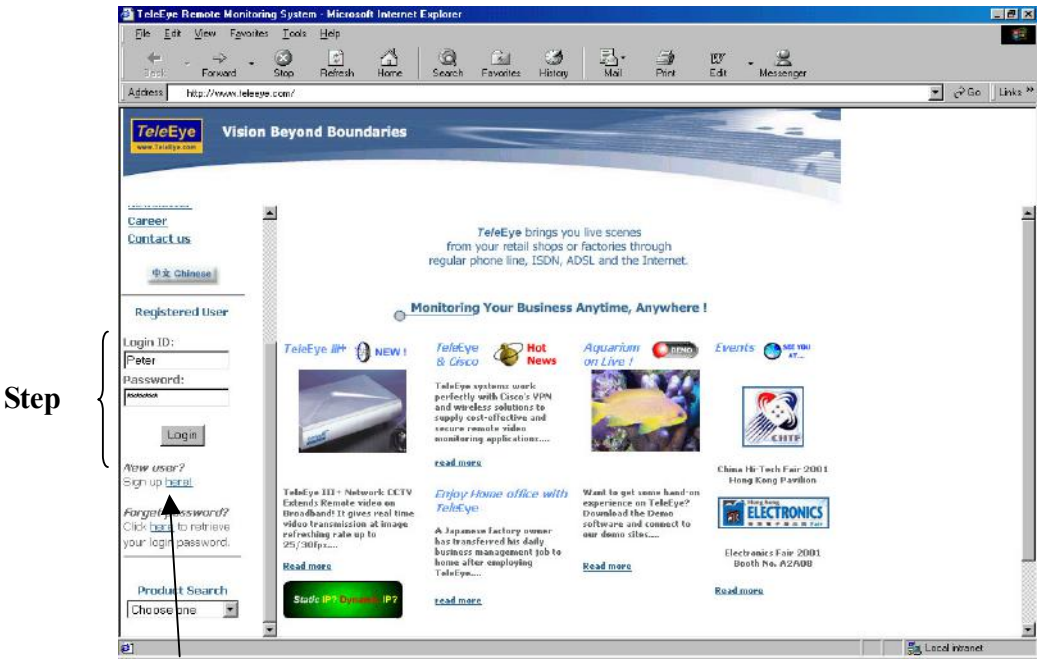
- Refreshing Rate
  When ***sure*LINK** address feature is enabled, the transmitter will periodically update its current IP address to our database to ensure that the ***sure*LINK** address is always forwarded to a valid IP. You can set this update period through OSD menu.

- 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

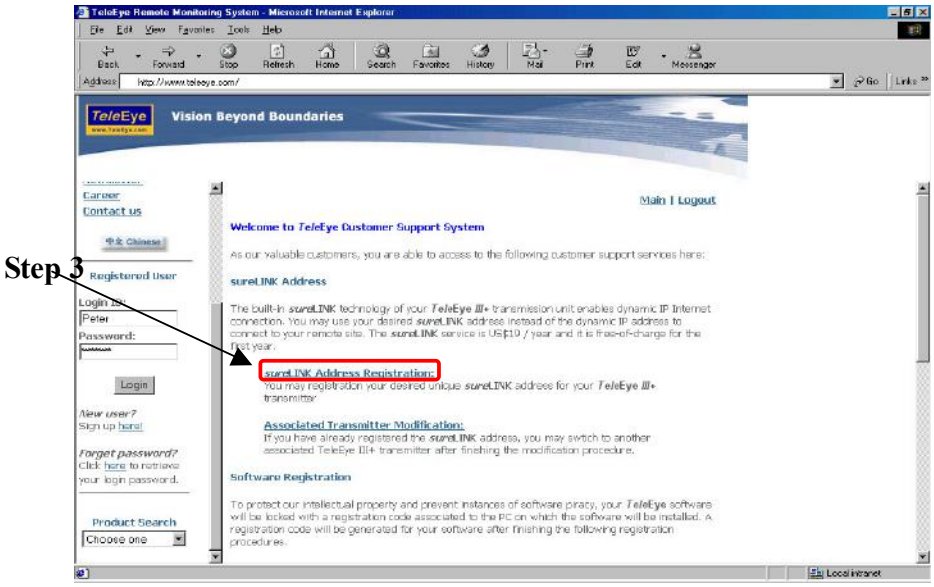
You can apply for ***sure*LINK** by visiting our web site at http://www.TeleEye.com

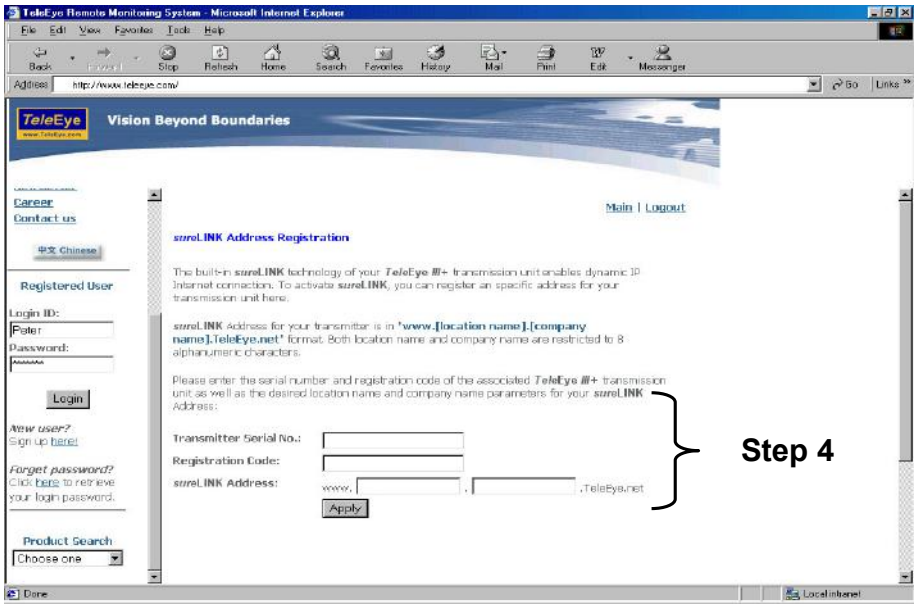


Step 1 : Sign up to create your user account

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

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





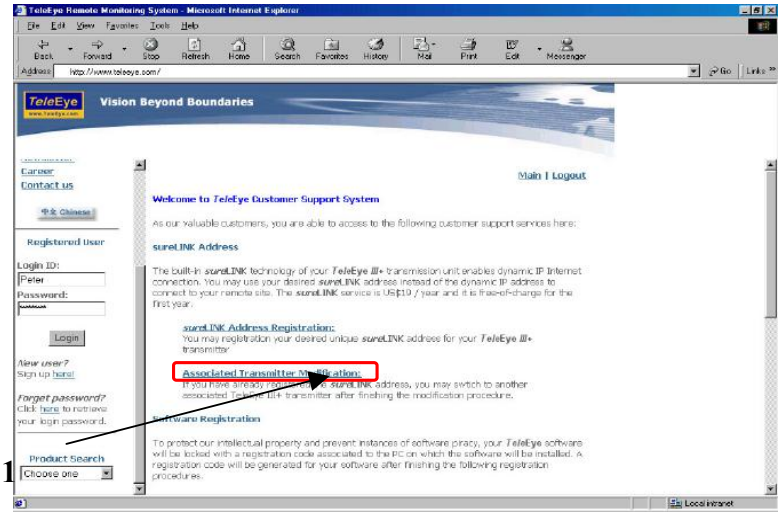
Step 4 : Enter a ***sure*LINK** address (**Domain Name)**, your **Transmitter Serial No.** and **Registration Code** in the fields provided respectively. Then click the **Apply** button. The process is then completed.

After we received your domain name registration for your transmitter, your application will be processed. Normally, it requires about 1 working day to activate ***sure*LINK** for your transmitter. You will receive a notification mail when your ***sure*LINK** service is ready.

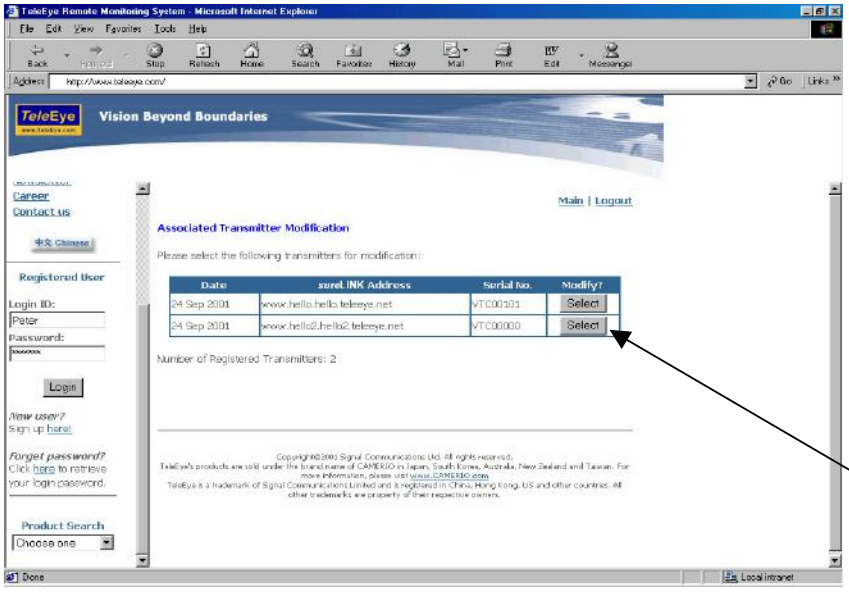
Transmitter Modification

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

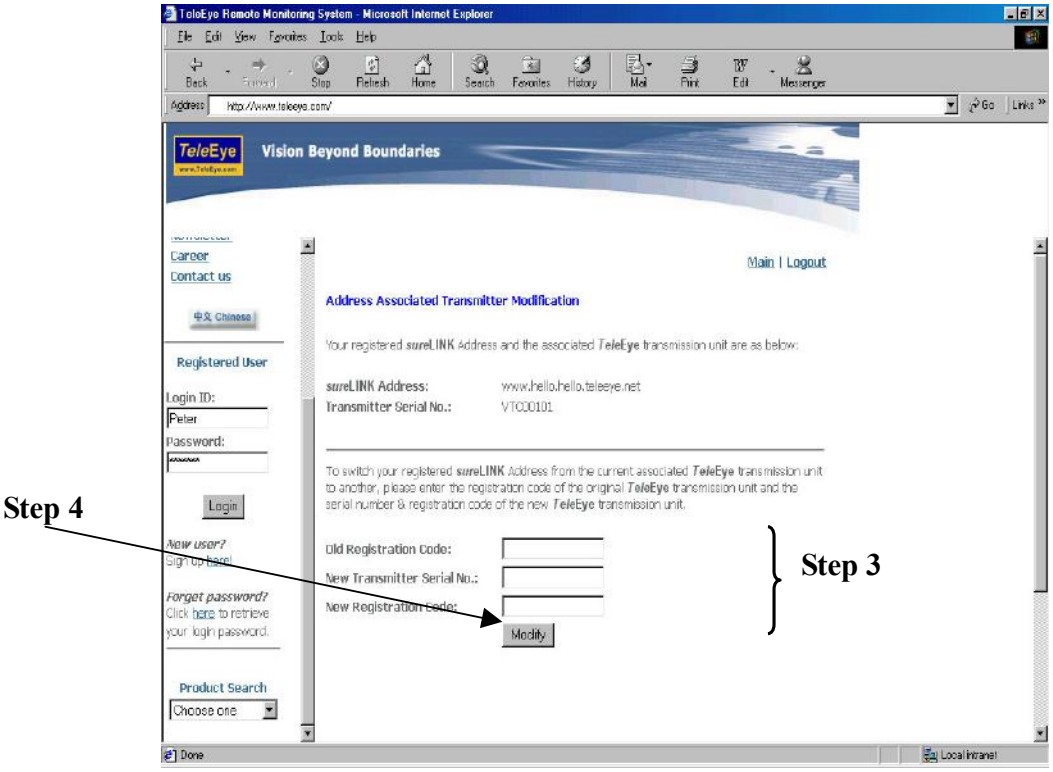


Step 1



Step 2

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.

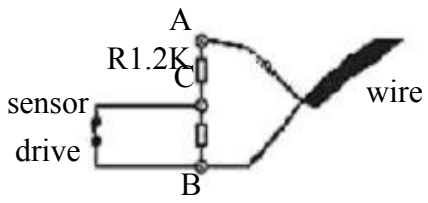
15.2 *Tele*Eye RX with Tamper Circuit and External Resistor

*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

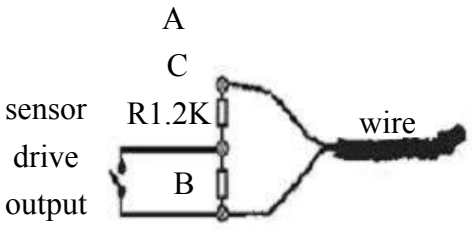
For example, by connecting the tamper circuit with DEOL, the circuit with the normal closed condition if the resistance between point A and B detect 1.2kΩ (shown as below), or the circuit with the normal open condition if the resistance between point A and B (shown as below) detect 7.2kΩ.The resistance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

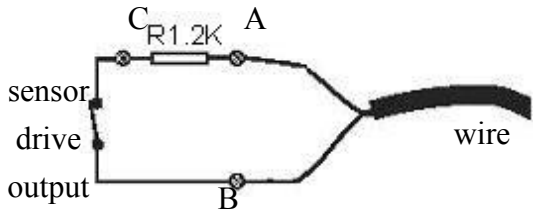
Term	Status	Description
S/C	TAMPER	Wire short (point A and B)
LoZ	NORMAL	Sensor drive output close (point B and C)
HiZ	ALARM	Sensor drive output open (point B and C)
O/C	TAMPER	Wire open (point A and B)



Normal Open (NO)

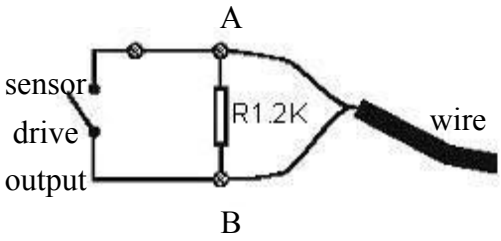
Term	Status	Description
S/C	TAMPER	Wire short (point A and B)
LoZ	ALARM	Sensor drive output close (point B and C)
HiZ	NORMAL	Sensor drive output open (point B and C)
O/C	TAMPER	Wire open (point A and B)

Single End of Line Configuration



Normal Close (NC)

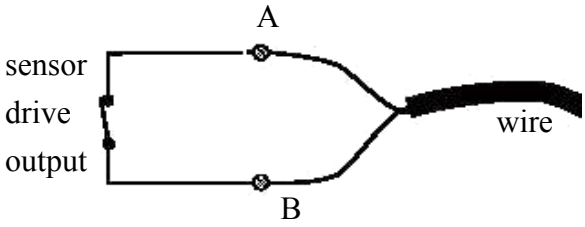
Term	Status	Description
S/C	TAMPER	Wire short (point A and B)
LoZ	NORMAL	Sensor drive output close (point B and C)
O/C	ALARM	Sensor drive output open (point B and C)



Normal Open (NO)

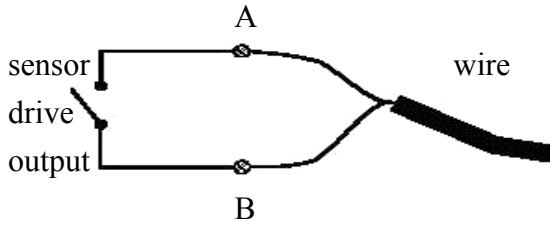
Term	Status	Description
S/C	ALARM	Sensor drive output close (point A and B)
LoZ	NORMAL	Sensor drive output open (point A and B)
O/C	TAMPER	Wire open (point A and B)

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

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.

END OF USER MANUAL

15.3 Security Mode

On RX360 series, there are 2 security modes: BASIC and ADVANCED security mode.

Basic security mode

- 2 user accounts (Administrator and normal user. User account can only be applied to remote software)
- 2 access right level (Either can or cannot change settings with remote software)

Advanced security mode

- 20 definable user accounts**
- Different access right between each user account (User account can only be applied to local OSD and remote software)
- Password encryption in network transmission.
- 6 concurrent users in advanced security mode.

Advanced security mode -- User account

18 normal user accounts and 2 special defined user accounts ('ADMINISTRATOR' and 'DEFAULT LOCAL USER') in RX

Account structure

Type	Description	Remark
General setting		
User name	Login user name from remote software	4-16 characters Case non-sensitive Unique between each account
Account type	LOCAL / REMOTE / BOTH	Allow user to login from local OSD / remote software / both
Access right	Access right of the user account	(Access right)
Remote account type setting		
Remote password	Login password from remote software	4-10 characters Case non-sensitive
Local account type setting		
Local password	Login password from local OSD menu	4-10 characters (**ONLY** numeric character available) Unique between each account
Local time out	Automatic log-out time period when keypad ideal	Except in playback state

END OF USER MANUAL

2 Special defined accounts

ADMINISTRATOR

Type	Default	Remark
User name	ADMINISTRATOR	FIXED
Account type	BOTH	FIXED
Access right	ALL	FIXED
Remote password	000000	Available to change
Local password	111111	Available to change
Local time out	No time out	Available to change

DEFAULT LOCAL USER**

Type	Default	Remark
User name	DEFAULT USER	FIXED
Account type	LOCAL	FIXED
Access right	NONE	Available to change
Remote password	-- NIL --	FIXED
Local password	-- NIL --	FIXED
Local time out	No time out	FIXED

** This is a local default user account. Local OSD will be login as this account automatically at RX startup, or when user logout in local OSD.

END OF USER MANUAL

Advanced security mode -- Access right

Group	Features Involved
VIDEO MONITORING#	Basic video monitoring with fixed cameras Browsing the event status**
AUDIO MONITORING and PA	Audio monitoring** PA with microphone, PA with pre-recorded voice clips
PLAYBACK	Video playback** Browsing event logs , connection log, setting log and operation log
CAMERA CONTROL	PTZ**
EVENT CTRL	Clear event
SWITCH CONTROL	Switch control
{All video monitoring}, {audio monitoring} & {playback} access right group will be enabled	
VIDEO BACKUP	Video extraction and backup
RECORDING	Start/stop recording Start/stop schedule recording
SYSTEM SETTING	Video format, camera installation, throughput control setting Change live video quality, brightness, contrast Network and modem setting Data/time setting Hard-disk formatting Recording setting Switch setting Event setting Firmware upgrade Shutdown/restart Setting import/export
All access right group will be enabled	
USER ACCOUNT	User account setting Switch transmitter security mode Restore factory setting

At least one camera must be selected

** Video monitoring dependence. For example, if a user does not has access right on camera 2 monitoring, he/she will not be able to browse event status, control PTZ and playback on this camera.

*Tele***Eye RX** with Tamper Circuit and External Resistor

END OF USER MANUAL