UK

TRUST SURVEILLANCE INTERFACE 801 USB

Instruction Manual

Version 1.0

Thank you

Thank you very much for purchasing this product from the Trust range. We wish you hours of fun with it. Please read this manual carefully before using the product.

Registration

Register your purchase now at the Trust Internet site, www.trust.com, so that you are able to receive optimal guarantee and service support. You will be automatically informed of developments to your product and to other Trust products. You will also have the chance to win some spectacular prizes.

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Introduction

This instruction manual is intended for users of the Trust Surveillance Interface 801 USB. The surveillance Interface 801 USB is an easy to install USB interface to connect a video camera with sound for fully programmable video and audio surveillance registration.

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24 hours a day remote view possible through internet or network connection. Observation area and audio/video sensitivity are adjustable for accurate detection level. Automatic audio/video recording when sound/motion is detected including exact date & time logging.

Play pre-defined or programmable sounds when motion is detected. Create a complete (wireless) surveillance system with the Trust security camera range. Ideal for all security and observation purposes like burglary, child watch, shop entry, cash register, warehouse, parking etc.

Conventions used in the manual

The following conventions have been used in the manual to indicate instructions:

<**key**> Here you should press a key. The name of the key is given between brackets.

'**System**' This is a specific term used in a program. These are terms used by, for example, Microsoft Windows 98.

[**DIR**] Type the text shown between brackets [….].

(term) The text between the parentheses (….) is the English term, e.g. (File) used in the figure referred to.

Extra information will be shown as follows:

NOTE: The Trust Surveillance Interface 801 USB only works in Windows 98 and Windows ME.

The examples assume that the letter "D" has been assigned to your CD-ROM drive. If your system uses a different letter for your CD-ROM drive, for example "E", you should replace "D" by "E".

Contents of the box

Check the contents of the box. It should contain the following:

Trust ISDN Modem & Phone System

USB cable

ISDN RJ-45 cable

Power adapter

Multilanguage quick installation manual

CD-ROM containing the drivers, applications and instruction manuals

CD-ROM containing RVS-COM (optional)

Speaker telephone set (optional)

If anything is missing or damaged, please contact one of the Trust Customer Care Centers. You can find more information at the back of this instruction manual.

Minimum system requirements

Pentium II 350MHz processor

64MB RAM or above, 128MB RAM recommended

Free USB port

Minimum 1GB, recommended 10GB (for full function, recording) free HDD space

4-speed CD-ROM drive

Windows 98 or Windows ME

Sound card recommended for audio playback

16 bit color, 8MB RAM VGA card

Video (composite or S-video) and / or audio source

For optimal use: continues internet or network connection

Modem for auto dial function to phone or pager

Safety

Carefully read the following instructions before use:

1. Only use this device in a dry environment.
2. Do not try to repair this device yourself.
3. Under the following circumstances, remove the USB plug from the USB socket and have the device repaired by qualified personnel:
4. The wire or the plug is damaged or has become worn.
5. Fluid has entered the device.
6. The device has been dropped and/or the casing has been damaged.
7. Position the device so that the cables cannot be damaged.

Installing the Trust Surveillance Interface 801 USB

1. Turn on your computer.

2. Connect the USB connector of the Trust Surveillance Interface 801 USB to a free USB port of your computer.

3. Windows detects the new hardware and asks for the location of the driver

4. Place the included CD-ROM with drivers and applications into your CD-ROM player.

5. Give as location for the driver [D:\Driver]. Windows will install 3 driver parts:
   - USB Composite Device
   - Trust USB A/V Audio
   - Trust Surveillance Interface 801

6. *NOTE:* *The examples assume that the letter "D" has been assigned to your CD-ROM drive. If your system uses a different letter for your CD-ROM drive, for example "E", then replace "D" by "E".*

7. Follow the onscreen instructions

8. Restart your computer after installation

9. Go to 'Start Menu -> Run' and type in [D:\Setup.exe] to start the Trust Software installer.

10. Click on the buttons and follow the onscreen instructions to install the included applications on your system.

Note: *the Trust Surveillance Software must be installed on the local PC with the installed camera. The Remote View Software and IP MultiCast Software must be installed on a remote computer which can connect to the local computer through a network or by modem/internet.*

Using The Applications

Main Panel
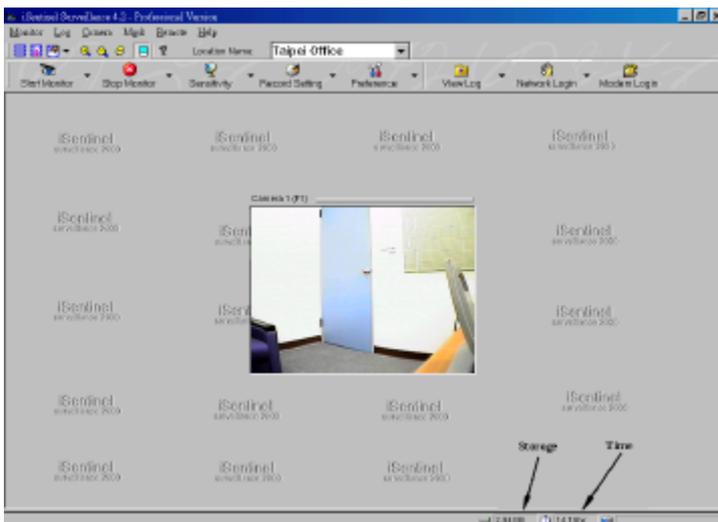
Storage/Time Remaining Display
This indicates the free hard disk space and the amount of recording remaining. These two figures are estimates based on video quality and frame rate.
Note: When the free disk space hits 150 MB, Trust Security Guard will stop recording or recording over old files.

Event List Key
[Event List] shows all of the log files of recorded events. It contains:

No.: Number of events.
Date / **Time**: Date and time of the event.
Target: Site of the event.
Action: Action performed. To enable/ disable the display: press the icon to enable/disable the display or choose from the drop-down menu [Camera] > [Show Event List].

Location Name:	Taipei Office	▼

You may add/modify the location name in based on the camera location.

⊕⊖ Zoom in/Zoom out Keys
Zoom in/zoom out on the video. You can use "+", "-" keys for shortcut as well as press ESC key to return to default.

👁 Start Monitoring
There are three ways to start monitoring/recording:
Press on this icon to invoke the sub-menu, select your choice of recording option from the sub-menu.
From the drop-down menu, choose [Monitor] > [Start Monitor] to invoke this sub-menu and select a recording option.
Use the right button on your mouse to click on the icon to invoke a sub-menu, then click on **Start Monitor.**

In the sub-menu, you have several options:
Start monitor all (audio and video) to start *video and audio* monitoring/recording.
Camera_name to start *only video* monitoring/recording.
Audio Sensor to record *audio* only.
Start schedule monitor to start monitoring/ recording based on the pre-set monitor schedule (See section 2.6).

❌ Stop Monitor
There are three ways to stop monitoring/recording:
Press this icon to invoke the sub-menu and select a recording option from the sub-menu.
From the drop-down menu, choose [Monitor] > [Stop Monitor] to invoke the sub-menu and select a recording option.
Use the right button on your mouse to click on the icon to invoke the sub-menu, then click on **Stop Monitor.**

In the sub-menu, you can choose any of the following options to stop monitoring:

Stop monitor all (audio+video) to stop *audio and video* monitoring/recording.
Camera_name to stop *only video* monitoring/recording.
Audio Sensor to stop *only audio* recording.
Stop schedule monitor to stop the pre-set monitoring/recording schedule.

Full Screen Mode Operation

[Full Screen Mode] allows users to view camera windows in a single full screen-sized video. To view this option, choose from the drop-down menu [Monitor] > [Full Screen Mode]. You can hit the ESC key to return to the Windows Display Mode.

The icons in [Full Screen Mode] are equivalent to the Windows Display drop-down menu:

 Start Monitor   **Stop Monitor**

 Preferences   **View Log**

 Network Login

▶ Mouse-Right Pop-Up Menu

Mouse-Right Pop-up Menu: Press this icon to invoke a pop-up menu for camera preference settings.
To view [Full Screen Mode] in Trust Remote View System: [Connect] > [Full Screen Mode]
To view [Full Screen Mode] in IP multicast System: [Channel] > [Full Screen Mode]

Motion Sensitivity/Audio Noise
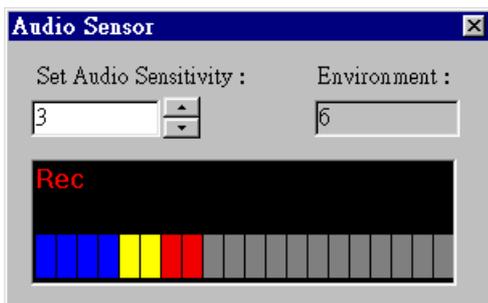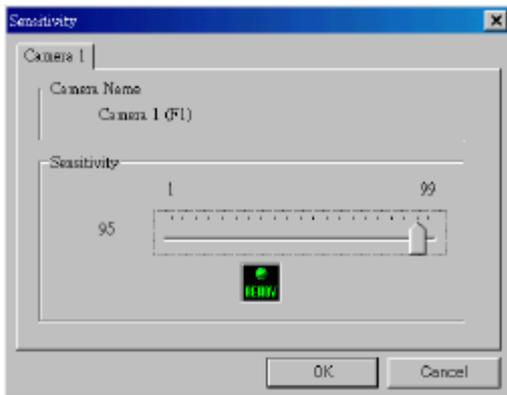
[Motion Sensitivity]

The **Sensitivity** setting establishes a threshold for motion detection. You can choose a sensitivity level between 1 and 99. The higher the value, the more sensitive is Trust Security Guard. Movement will be recorded when the motion exceeds the value.

There are three ways to set up the **Sensitivity** level:
Press the icon to invoke the sub-menu > **Video Motion** > **Camera_name >** adjust slide bar.
From the drop-down menu, [Monitor] > [Sensitivity Setting] > **Video Motion** > **Camer_name >** adjust slide bar.
Mouse-right click on video > [Sensitivity] > adjust slide bar.

[Audio Sensor]

Audio Sensor sets a threshold for audio detection. The system will start recording audio if the value in **Environment** exceeds the value in **Set Audio Sensitivity**.
There are two ways to set **Audio Sensor**:

Press the icon to invoke the sub-menu > **Audio Noise >** enter value.
From the drop-down menu, [Monitor] > [Sensitivity Setting] > **Audio Noise** > enter value.
Note: The value in **Environment** is determined by the system; this can serve as a reference to set your **Audio Sensor** value.

⟳Record Setting

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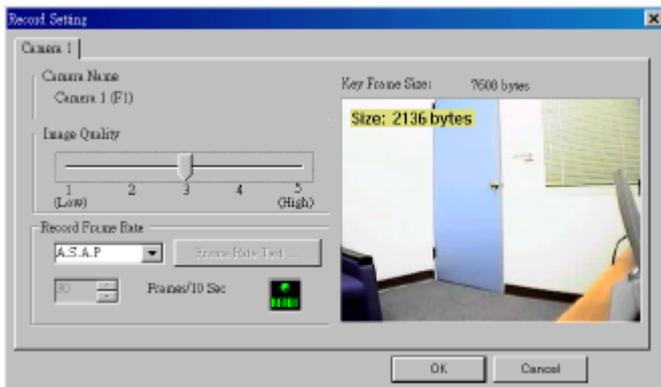
[Video Quality]
Video Quality allows users to adjust the video quality in 5 levels. The higher the value the better the quality.
However, better video quality will occupy more storage size.

[Record Frame Rate]
ASAP allows to record the highest frame rate per second possible. **User Define** allows users to define their own
rate. The higher the value in **Record Frame Rate**, the smoother the video will be.
*Note: **User Define** value may not exceed **Frame Rate Test** value.*

[Frame Rate Test]
Frame Rate Test gives the maximum available frame rate per second, as determined by Trust Security Guard.

🎛 Preferences
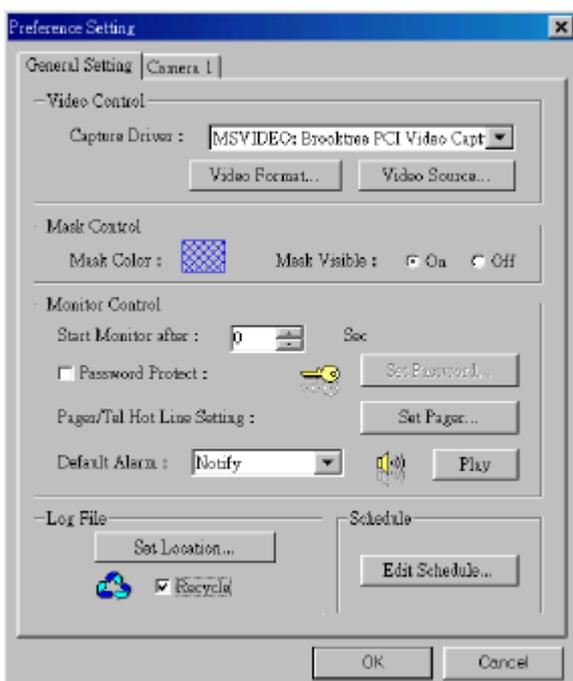
[Video Format]
Choose **Video Format** to invoke the dialog box provided by the camera/capture device driver. Select either RGB15, RGB24 or YUV9 that supports Trust Security Guard.

[Video Source]
The video source dialog box is provided by the capture device driver. You may select the signal format (NTSC or PAL) and adjust the video characteristics (brightness, contrast, hue, etc).

[Capture Driver]
Please refer to your camera's user's manual to select the right device driver.

[Mask Visible]
You can enable or disable the visibility of the mask on the camera window. This function will be effective only when [Start Monitor] is initiated. For more information about the mask function, see section 2.8.

[Start Monitor After]
Monitoring/recording will be started after the pre-set monitoring time.

[Password]
Once the password is set, you will need to enter it when starting or closing. The password is also required when starting the Trust Remote View System or IP multicast System.

[Pager/Tel Hot Line Setting]
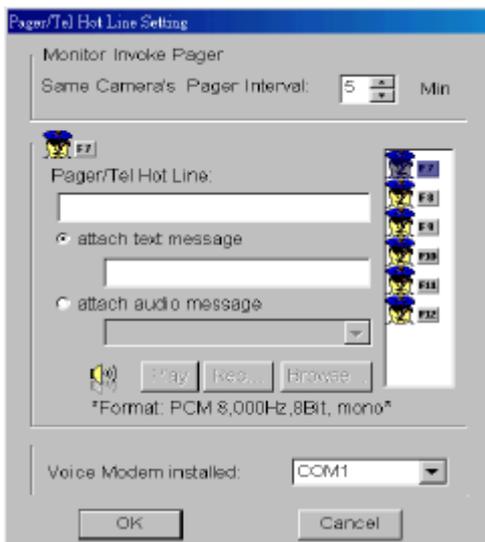
You can define 6 different telephone/pager numbers, and assign a function key (from F7 to F12) to each number. Trust Security Guard can automatically dial the predefined number or dial the number when the Function Key is manually pressed. You may also send text messages to a pager by selecting **attach text message**

[Alarm]
You may play an audio alarm when motion is detected. You can select a sound file in **Default Alarm**.

[File Location]

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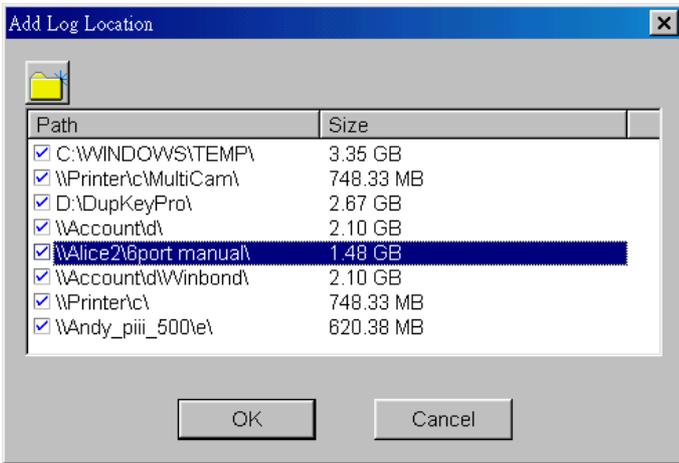
To define path for recorded video:

Press new file icon to add a path for recorded video files. You are required to enable the Read/Write attribute in network disks before saving the log files to the path. The sequence of the saved files is based on the order in dialog box. When the available disk space in a path is less than 150 MB, the system will automatically save files to the next path. To delete the path: highlight the path > press DEL key.

[Recycle option]

When **Recycle** is selected and the files in all the paths are full, the system will override the files in the path based on FIFO (First-In-First-Out) sequence. If you don't activate Recycle, Trust Security Guard will stop recording once the free hard disk space reaches 150 MB.

Schedule

You can define two scheduling settings; Period or Special. If these two settings are in conflict, the system will follow the Special setting. The Schedule can be set to meet your various surveillance requirements. (ex. You can define Period for weekdays and Special for weekends).
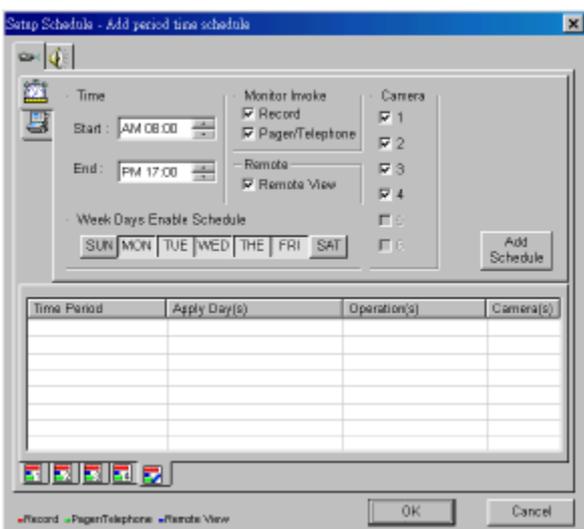
 Select Special time Schedule Select Period time Schedule

Select video record schedule Select audio record schedule

Select the date/time and monitor option, then press Add Schedule to add the schedule. To activate the schedule setting, go to **Start Monitor** and select **Schedule Monitor** in the sub-menu.

Display each schedule by chart.

List the schedule events in text. You may highlight and press the DEL key to delete individual settings. You may also highlight and modify individual schedules listed. Press [Modify Schedule] to apply the changes.

Camera Preferences
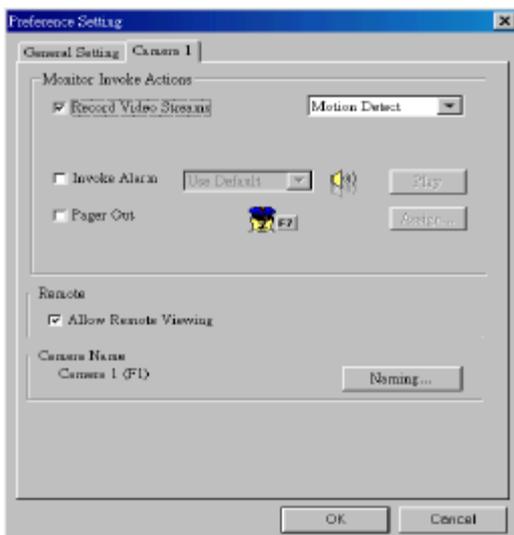
[Record Video Streams]
You can select **motion** or **round-the-clock** recording mode for the camera.

[Invoke Alarm]
You can select to **Invoke Alarm** if motion is detected.

[Pager Out]
The System will **Pager Out** (send a page) when motion is detected. You can adjust **Notice Level** to define a time interval before the system calls out; whereas **High** = 0 second, **Medium** = 1.2 sec., and **Low** = 1.6 sec.

Mask Function

Mask allows users to mask areas they do not wish to observe in the area being monitored. For example, you wish to observe your office but not the moving traffic outside the office; therefore you mask the office window so that Security Guard will ignore the traffic, and only records the movement outside the mask area. Icons used to modify the mask area are:

Add mask Cut mask Clear mask

Remote Login Setting

Remote Login Setting allows users to enable the remote viewing options.
To set up: Select from the drop-down menu [Remote] > [Login Setting]

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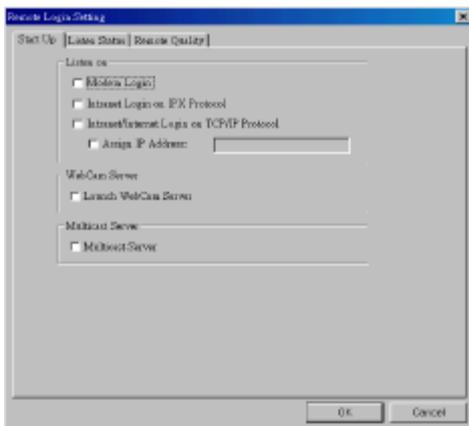
[Start Up]
Click on **Start Up** to enable/disable remote access and remote viewing.

[Assign IP Address]
 System uses PPP as the default IP address. If you wish to change to SLIP (Modem) IP, you may select **Assign IP Address** and enter your IP address.

[Listen Status]
You may use this dialog for the network connection status.
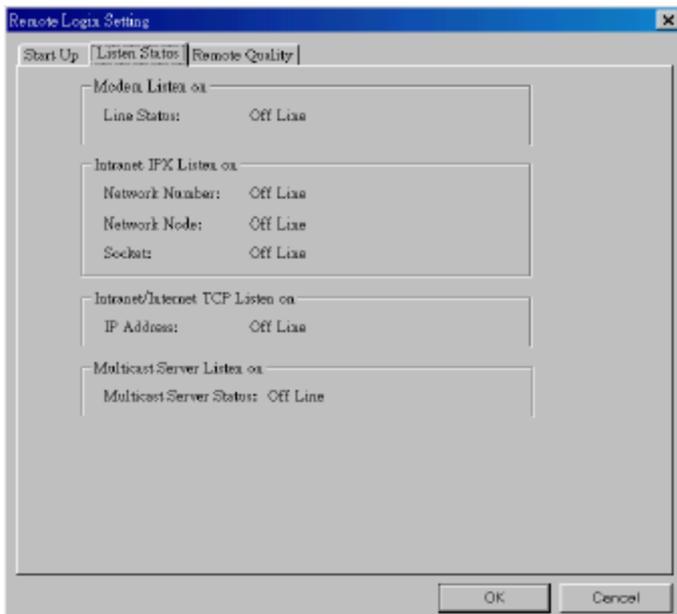
[Remote Quality]
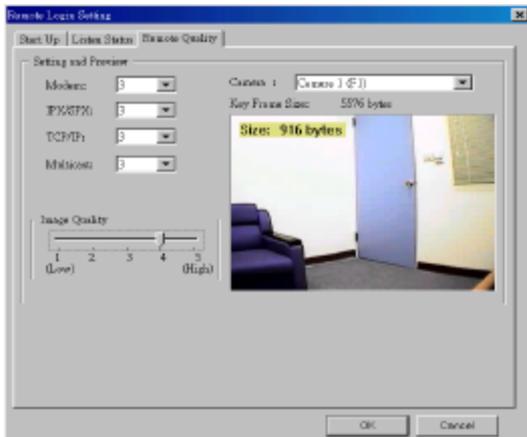
This dialog allows you to set the video quality at the remote site.

Select Modem

If you having problems in connecting after installing more than one modem in your system, click on [Camera] > [Modem Configure] for the sub-menu.

In the sub-menu, select a proper device driver for the modem.
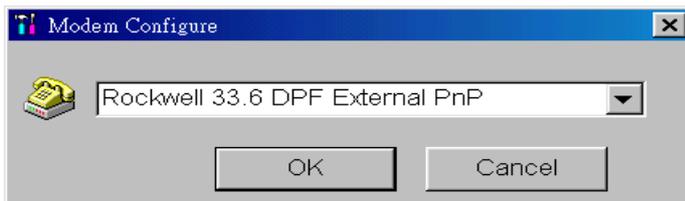
Using The Playback Function

View Log
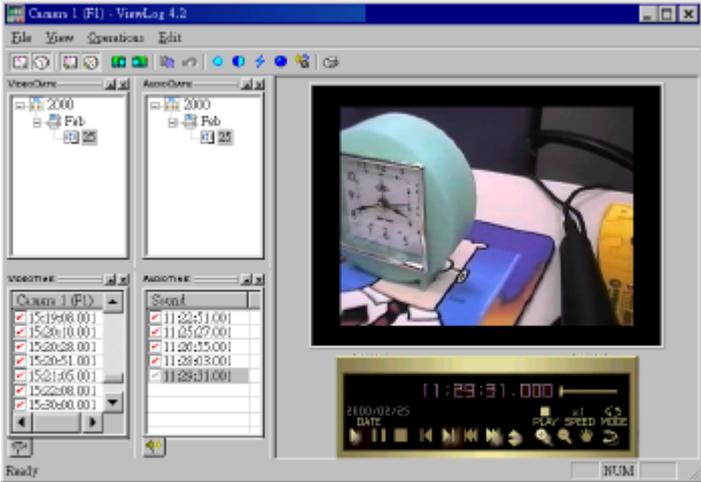
Operation Panel
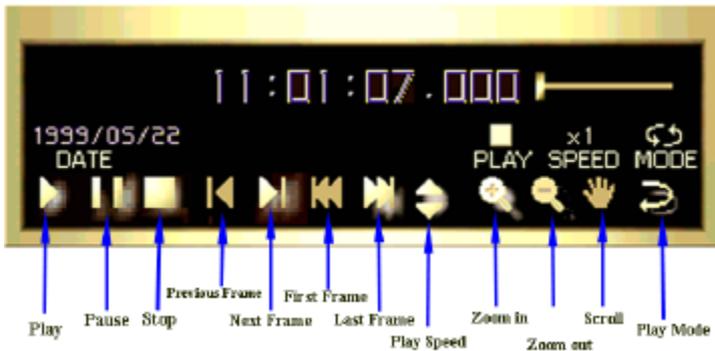
Playback Video
Playback Video allows you to retrieve the log files. Select **Camera number** and its **video date and time** > Press play button to view the video. You may press the '+' or '-' in numeric key to zoom in/zoom out of the video playback window.

Playback Audio
Select **audio date and time** > Press the **play button** to playback the recorded audio.

Playback Video and Audio Simultaneously
Select the **Camera number** and its **video date and time**. Select the **audio date and time** > Press play button. The playback sequence of audio and video will be in accordance with the date/time priority.

Enable/Disable Audio/Video Playback
Click on the **audio/video date/time** to enable or disable the audio/video date/time.

Save a Single Video File
Select **Camera number** and the video date/time you wish to save. Press [File] > [Save As] .avi file.

Save a Single Frame as evidence
Select **Camera number** and the video date/time you wish to save. Press Play button > Pause on the frame you wish to save > [File] > [Save As Image] as .bmp or .jpg file.

Backup Function

Introduction to the Backup Application

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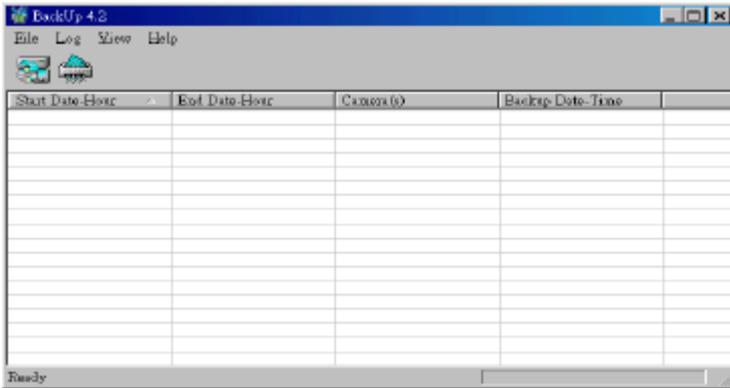
There are two backup methods in Trust Security Guard.

1. Recorded audio/video files can be saved to CD-R, MO or ZIP media.
2. Delete audio/video files from the database.

Backup Audio/Video files

Press or select from the drop-down menu [log] > [backup], you will see the following dialog box:

Select the Media you want to backup, either CD-Writer , hard disk drive, or MO/ZIP/JAZ drive.

Enter the Start Time and End Time of the audio/video files you want to backup.

4.Press OK, and you will see the following dialog box:
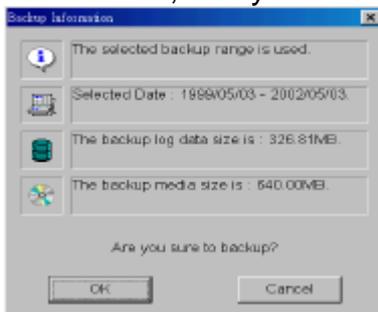
5-1: if you selected **CD-Writer**, you will see the following dialog box:
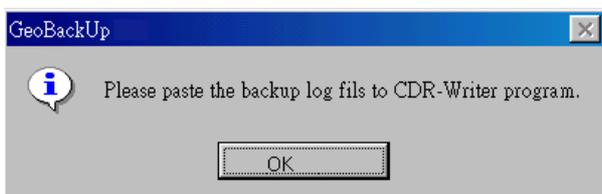
You need to run a CD-R application, such EasyCD, to paste files to the application.

   5-2: If you selected Hard disk drive or MO/ZIP/JAZ driver, you will see the following dialog box:

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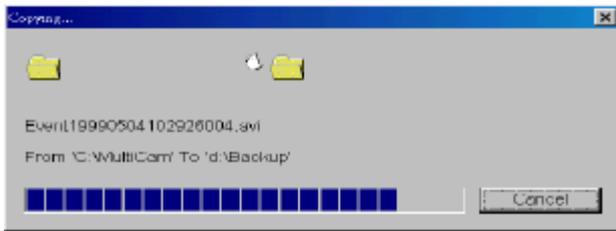
You will need to run the EZViewLog.exe located in the root directory of your backup media to view the backup video files.

Delete Audio/Video Files

Press or select from the drop-down menu [log] > [delete].

You will see the following dialog box:
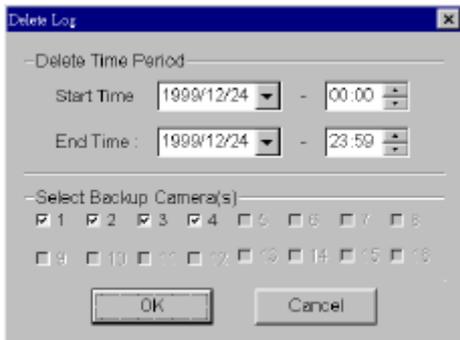
You may be required to enter a password if one has been set previously.

Enter the **Start** and **End date/time** of the video files to be deleted.
Press **OK** to delete.
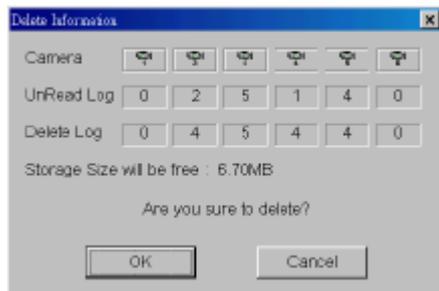
<u>**Webcam System**</u>

How to use Webcam System

Trust Security Guard has HTTP protocol built in. You do not need a web server to view through a browser.

To start the WebCam function: Press [Network login] > [WebCam Server] to invoke the **Setup WebCam for Internet/Intranet** dialog box.

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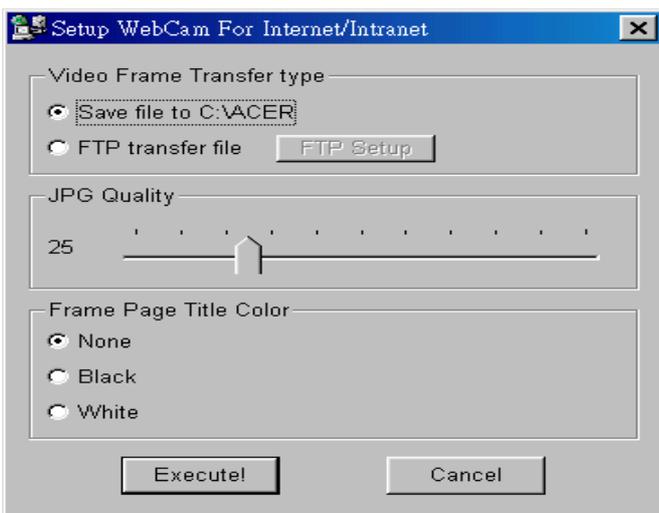
If you wish to send the captured images to another web server or to a different location, click on **FTP Transfer file** > **FTP Setup**. You will find the **Setup FTP** dialog box as follows:
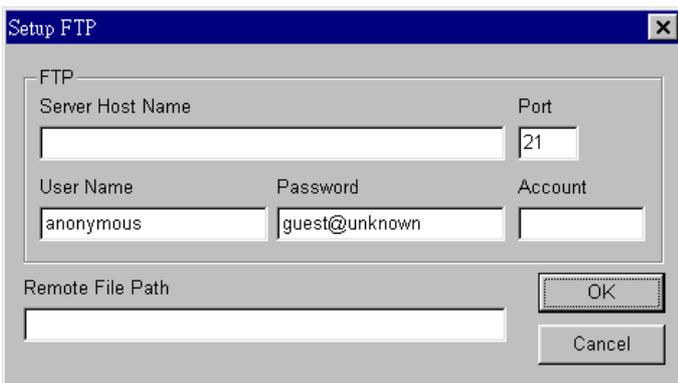
JPG Quality: Video quality may be adjusted by moving the slide bar. The higher the value the better the image the more storage space you will need.

Frame Page Title Color: This refers to the date/time captioned on the video. It can be in black or white.

To browse the WebCam homepage: You need to use an Internet browser, such as Mircorsoft Internet Explore or Netscape Navigator. You will see the following:
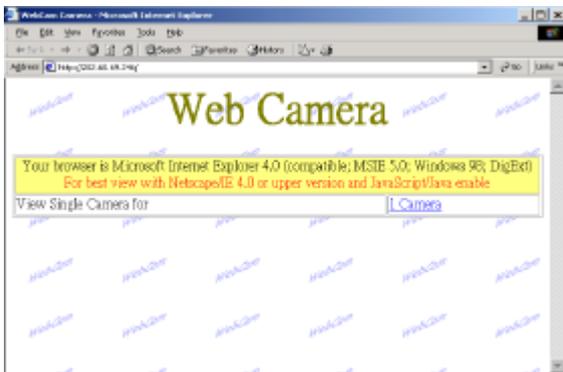
After the homepage is displayed, you can select the camera to view.
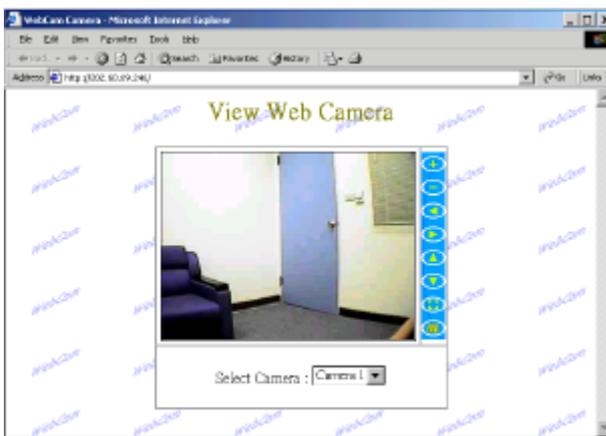
Communication System

Installation
You can run multiple Remote View Systems in one PC with each Remote View connected to a different PC with Trust Security Guard and a PC camera installed.
Follow the installation procedures in Section 1.4.

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Enable Camera Remote View

Press **Preference** to invoke the sub-menu. Select **Camera number** in the sub-menu to invoke the dialog box.
Click on **allow remote viewing** to enable Remote View System.
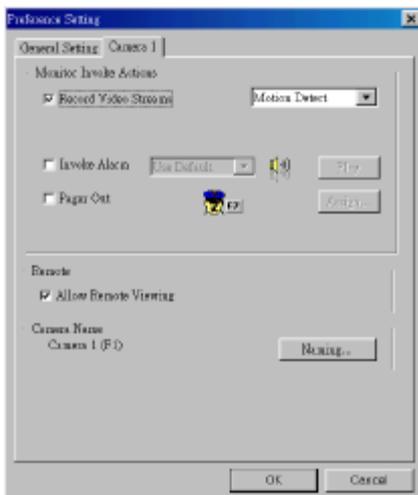
Remote View by Modem

Press Modem Login in Trust Security Guard (served as server, which was installed in a PC with camera connected).

2.Launch the Remote View System. Press 🖳 in the communication application > click on
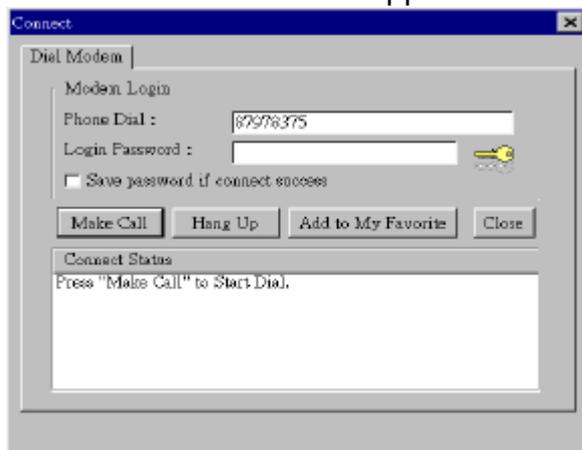
Dial Modem. You will see this dialog box.

Enter a telephone number and press **Make Call** to connect.

3.You will see this panel if the connection is successful.
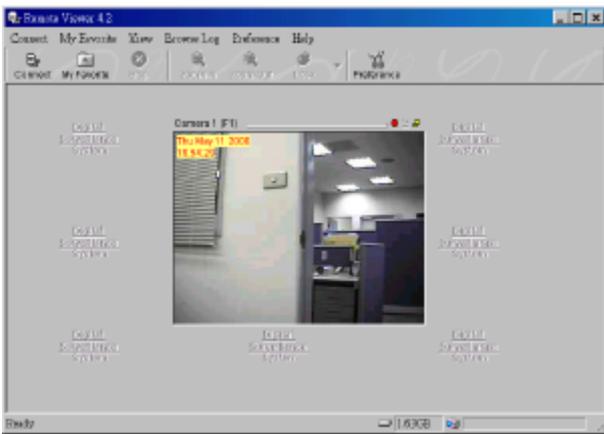

You can adjust the video quality by pressing
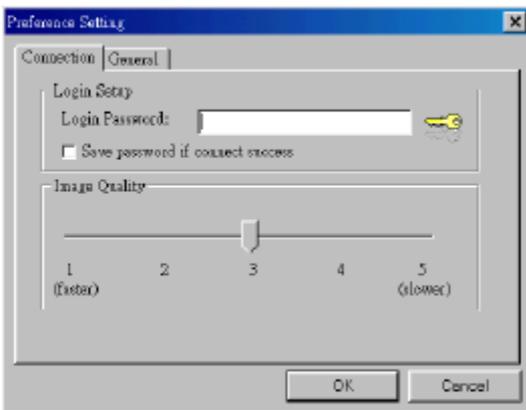
Remote View through IPX protocol

You will need to install IPX/SPX protocol both in the server (the PC connected to the PC video camera) and the remote site.

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Press [Network Login] > [Intranet Listen on IPX] in Trust Security Guard. This opens a gateway for remote IPX log in.

Launch the Remote View System. Press 🗐 in communication application > click on **Intranet IPX**. You will see the following dialog box:
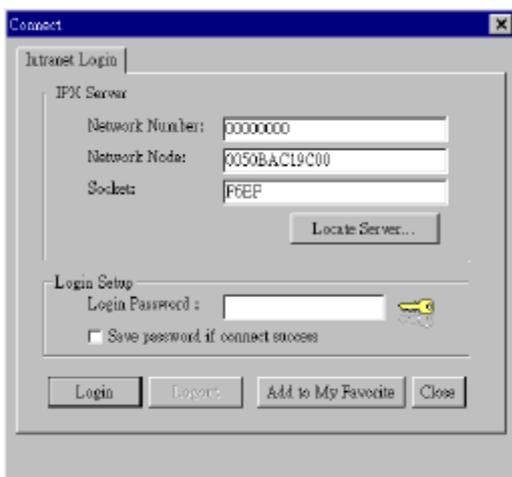
Press **Locate Server** to search the PC where Trust Security Guard is installed. Select the sever you wish to monitor from the list and press **OK**. You may press **login** to connect or press **Add to My Favorite** to add this site to My Favorite.

 Search Button.
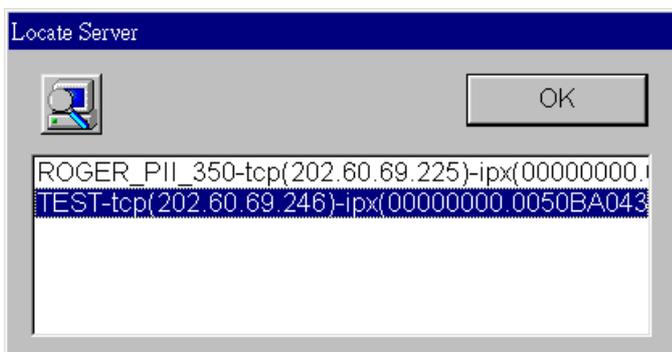
You will see this panel if the connection is successful.
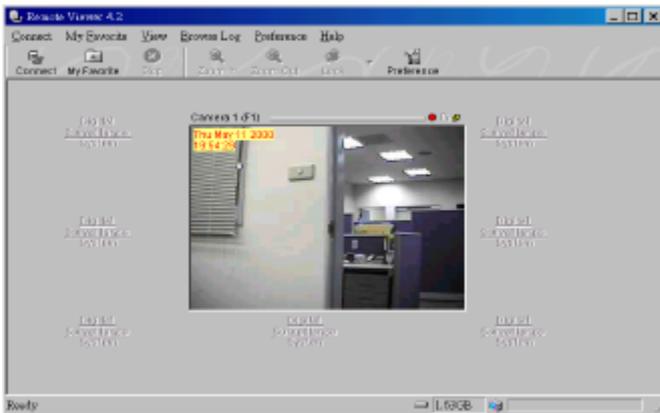
Remote View through TCP/IP protocol

You will need to install the TCP/IP protocol both in the server (the PC connected to the PC video camera) and the remote site.

Press [Network login] > [Internet/Intranet Listen on TCP/IP] Trust Security Guard(server). This allows remote TCP/IP log in.

Press ⬚ in communication application > **Internet/Intranet TCP/IP**. You will see the following dialog box:
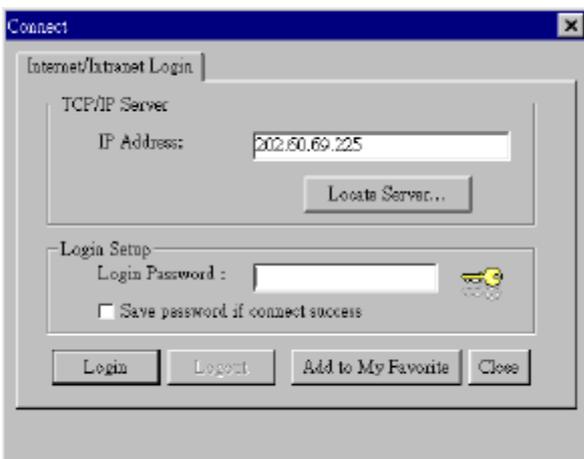

Press **Locate Server** to search for the PC where Trust Security Guard is installed. Select the site you wish to monitor from the list, then press **OK**. You may press **login** to connect or press **Add to My Favorite** to add this site to My Favorite.

 Search Button
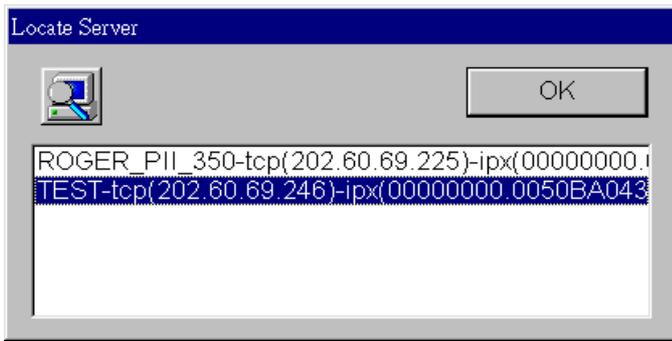
You will see this panel if connection successful.
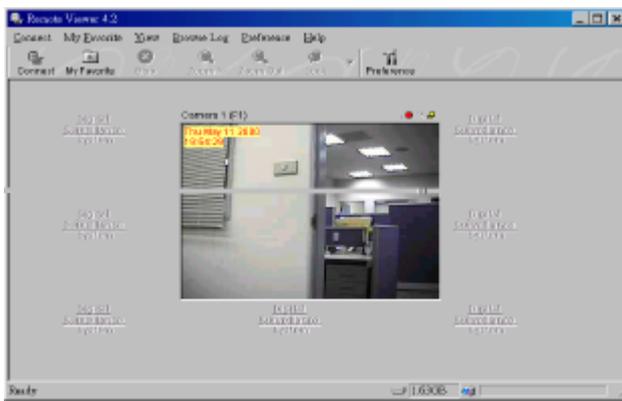
View Recording Functions

🔴 Press to start recording; press again to stop/pause recording.
⏸ Press to pause recording; press again to resume recording.
🔲 Lock camera to allow zoom-in or zoom-out, controlled by the + or -
   keys; press the ESC key to return to default.
📄 View the recorded video. Please refer to the View Log (Section 3.1) for more details. You may also save the recorded clips to file.
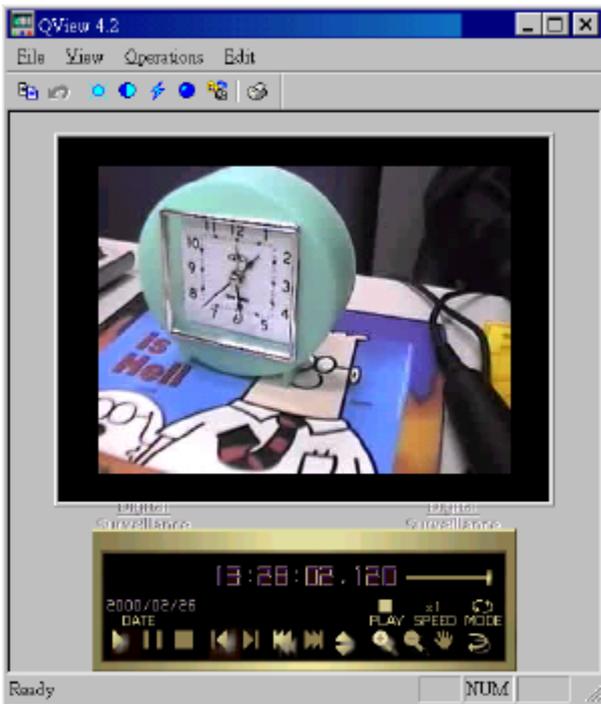
When you press **Record** again, this **Prompt** will pop up if the previous recorded video is not saved to disk yet.

You can press **Continue** to drop the previous video (already stored in temporary record buffer), or you may press **Cancel** and save the file.

Preferences
You can set text/background color for the date/time stamped on video. You can set the record path in the temporary record buffer field.
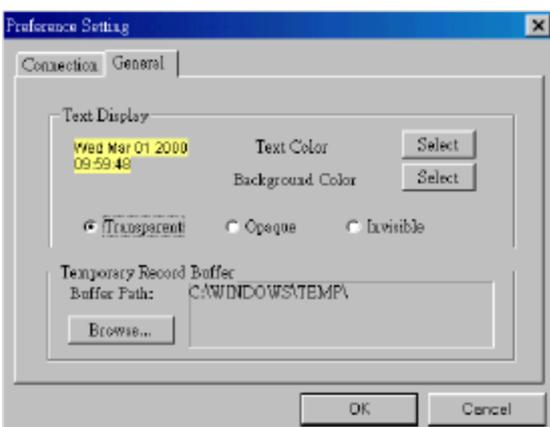
System Limitation

The System will stop recording if the free disk space is less than 150MB.

GB

IP Multicast System

Using IP Multicast System

The IP Multicast can only be applied on Intranet/LAN environment. It does not work in a WAN/Internet environment.
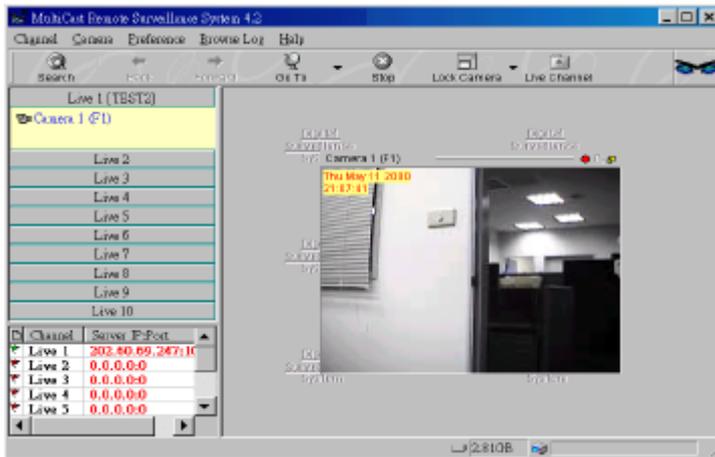

You can connect up to 10 camera servers to the IP Multicast System. You can switch from one server to another by pressing the **Live** bar.

Follow the installation procedure in Section 1.4.

Press [Preference] in Trust Security Guard to invoke sub-menu. Select **Camera number** in the sub-menu to invoke the dialogue box. Click on **Allow Remote Viewing** to enable/disable the IP MultiCast System.
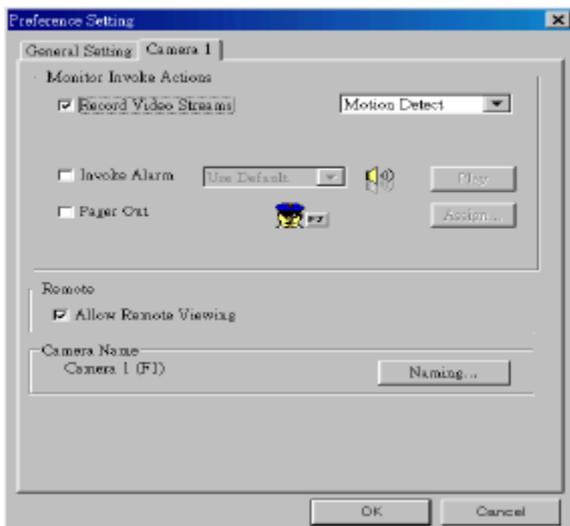
To view from the IP Multicast System, click on the **Network** icon in and click on **Multicast Server**.

Run the IP Multicast System from the PC that you installed it on.

Press to search for all the PCs in the same LAN/Intranet environment that have Trust Security Guard installed.

Press the **Live** bar to select the server you wish to monitor.

 You must **Lock Camera** to zoom in / zoom out of a specific camera window. If multiple PCs have Trust Security Guard installed in same LAN environment, you may press the F1 to F6 buttons to lock a specific camera. When a camera is locked, you may press the '+' and '-" in the numeric keypad to zoom in or zoom out. Press ESC key to leave the lock mode.

 Hide/Show the live channel/bar panel.

Recording in IP Multicast

● Press to start recording; press again to stop/pause recording.
Ⅱ Press to pause recording; press again to resume recording.
Lock camera to allow zoom in or zoom out operation, control by using + or - keys; press the ESC key to return to default.
View the recorded image as below. Please refer to the View Log chapter (Section 3.1) for more details. You may also save the recorded clips to file.
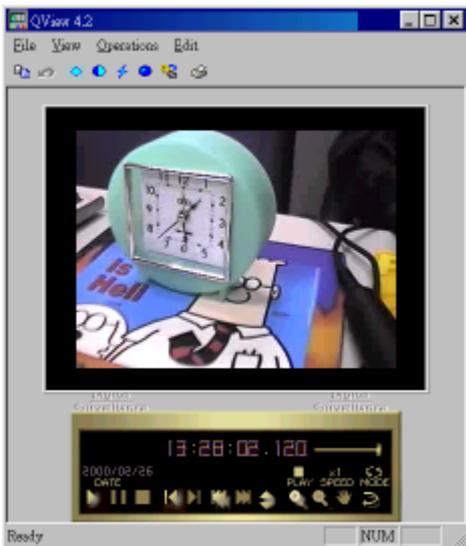

When you press Record again, this Prompt will pop up if the previous recorded image is not saved yet.
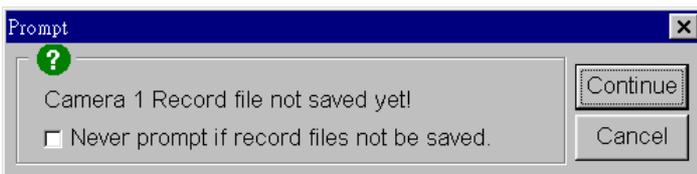
You can press the **Continue** button to drop the previously stored temporary record buffer, or pressing **Cancel** and save the video clips. Now, you may start to record the next video data.

Preferences

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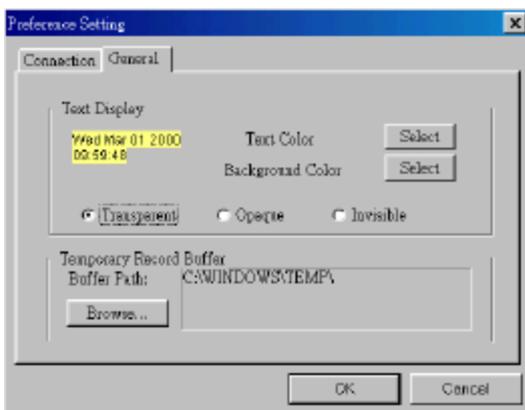
You can set the text/background color for data/time display. You may set the record path in the temporary record buffer field.

Repair Database Utility

How to use the Repair Database Utility

When you playback the video clips and find one of the following situations, please run the Repair Database Utility.

There are a lot of question marks in the video column.

There is no video display even when you press the playback button.

Garbage text is displayed.
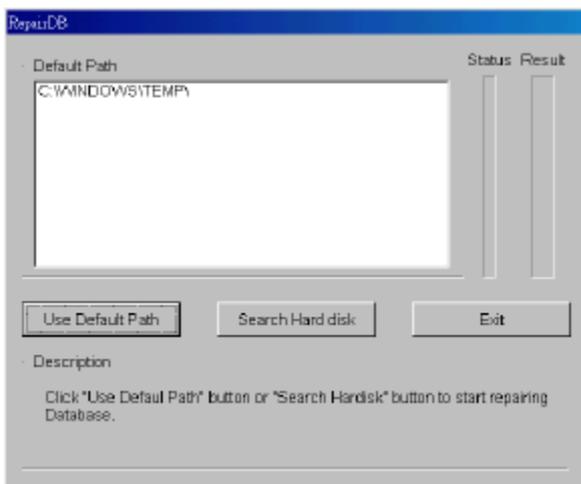
Use Default Path: The Repair Database utility will search and rebuild the database using the path you have defined in the Trust Security Guard system

Search Hard disk: The Repair Database utility will search all the hard disks you have installed in this PC, including the subdirectories to rebuild the database again.

Uninstalling Trust Security Guard

To uninstall Trust Security Guard, click on the Uninstall icon from the folder. The uninstall program will delete all Trust program files on your hard disk. However, it does not delete the video and log files saved in your PC's hard drive.