

Fury

Digital Video Recording Systems

Ref. Models

All Fury products

DW-Pro-9200 Series

DW-Pro-42000 Series

Introduction

Thank you for purchasing Fury DVR

Fury products have been designed and manufactured with advanced technology developed by Digital Watchdog in compliance with international safety standards. Its quality is guaranteed by strict reliability and compatibility tests.

It is strongly recommended that you read this Manual carefully. As most of images and features shown in this Manual are based on the latest model, some features of your equipment may differ from those stated in this Manual.

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Kaltech Enterprises is not held responsible for any system failures or damage due to disobeying manual instructions.

Fury is a registered trademark of Kaltech Enterprises,.

This capture board products has passed household, industrial and domestic radio wave compatibility tests and is certified by CE and FCC.

Safety Precautions

When selecting a place for the DVR, **avoid** locations with :

- Excessive heat, such as direct ray of light or heating appliances.
- Excessive moisture, dust, or smoke.
- Magnetic substances or electric wave equipments in close proximity.
- Excessive hot or cold temperature (operating temperature from 5 °C ~ 45 °C)
- Unstable or elevated surface.

Before proceeding further with this manual, **make sure to** follow the precautions below:

- **Plug the power cable in after connecting all devices.** Connecting a device when the power is on may cause problems. **Do not forget that Fury DVR is automatically booted when the power cable is plugged in.**
- Leave enough space around the DVR, avoid tangling cable lines and blocking ventilation.
- Keep the DVR clean of dust and foreign objects.
- In case of malfunction, do not try to repair the DVR by yourself. Contact local distributor for assistance.

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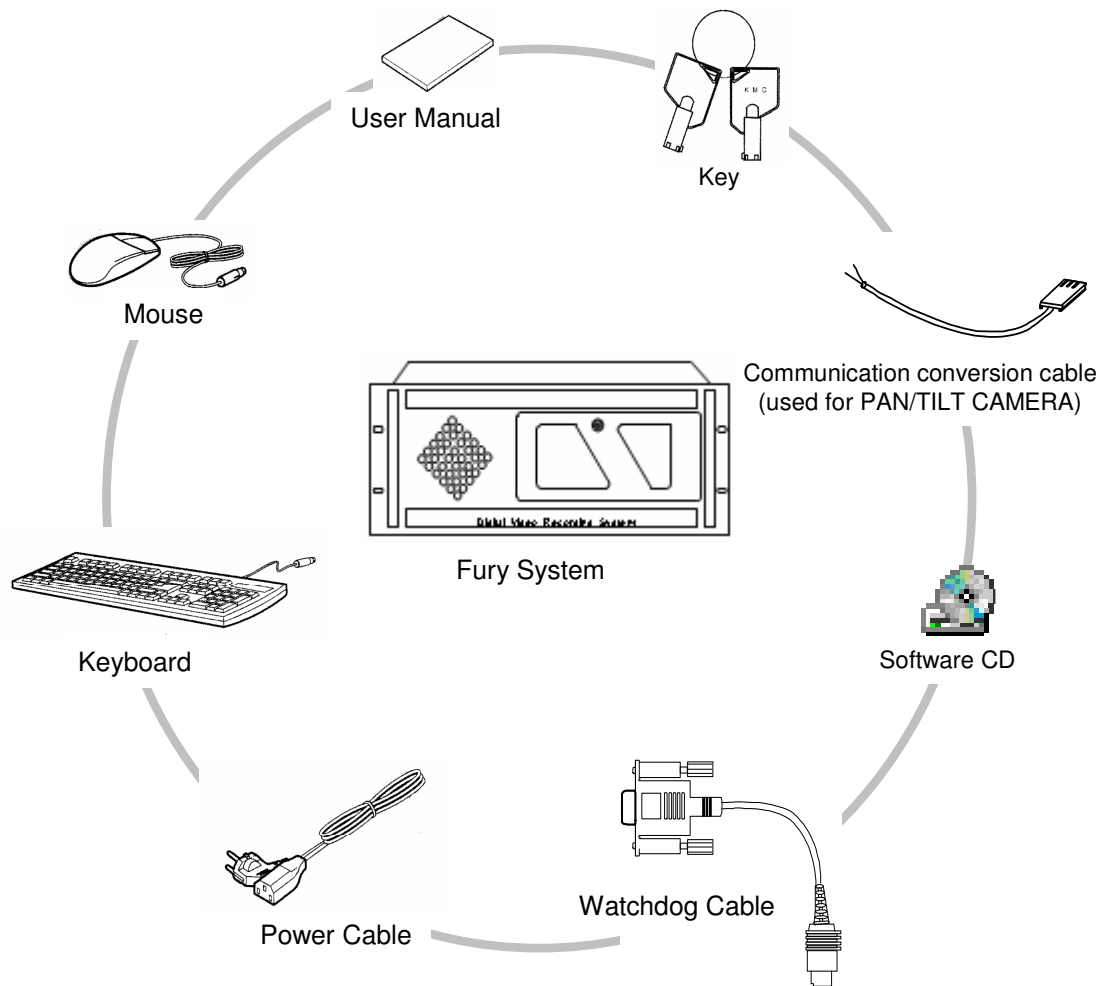
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Chapter 1 Installation & Setup

Installation

1.1 Unpacking

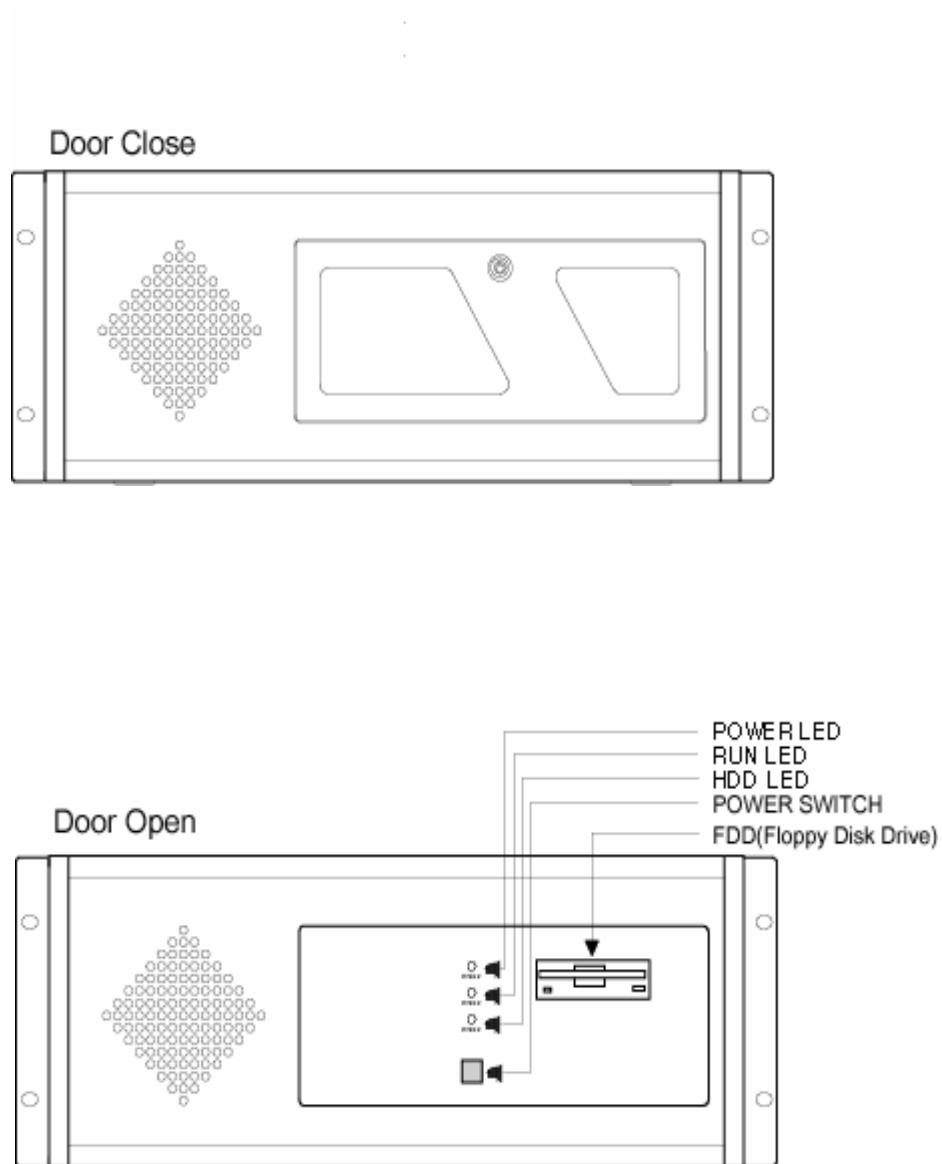
The following diagram shows items included in the default package. Check to make sure the package contains everything below.



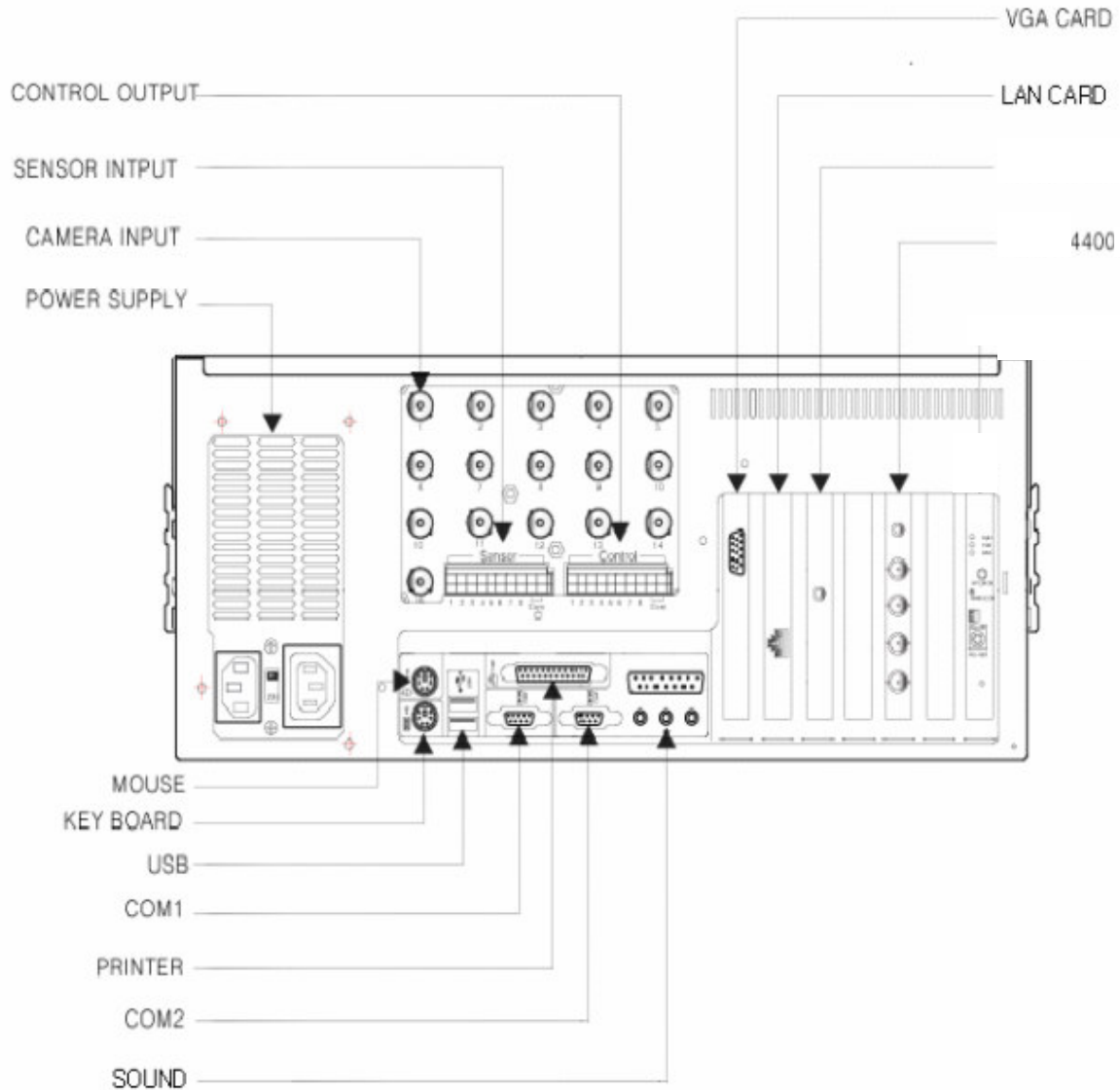
Monitors compatible with 1024 X 768 resolution and refresh rate of 60Hz are recommended.

1.2 Front view (old pictures)

Front and rear design may vary depending on Fury Model



1.3 Rear view *(old pictures)



Power cable should be plugged in after all devices are connected properly. Do not forget that Fury DVR is automatically booted when the power cable is plugged in. Use the front On/Off Switch only when you reboot the system manually.

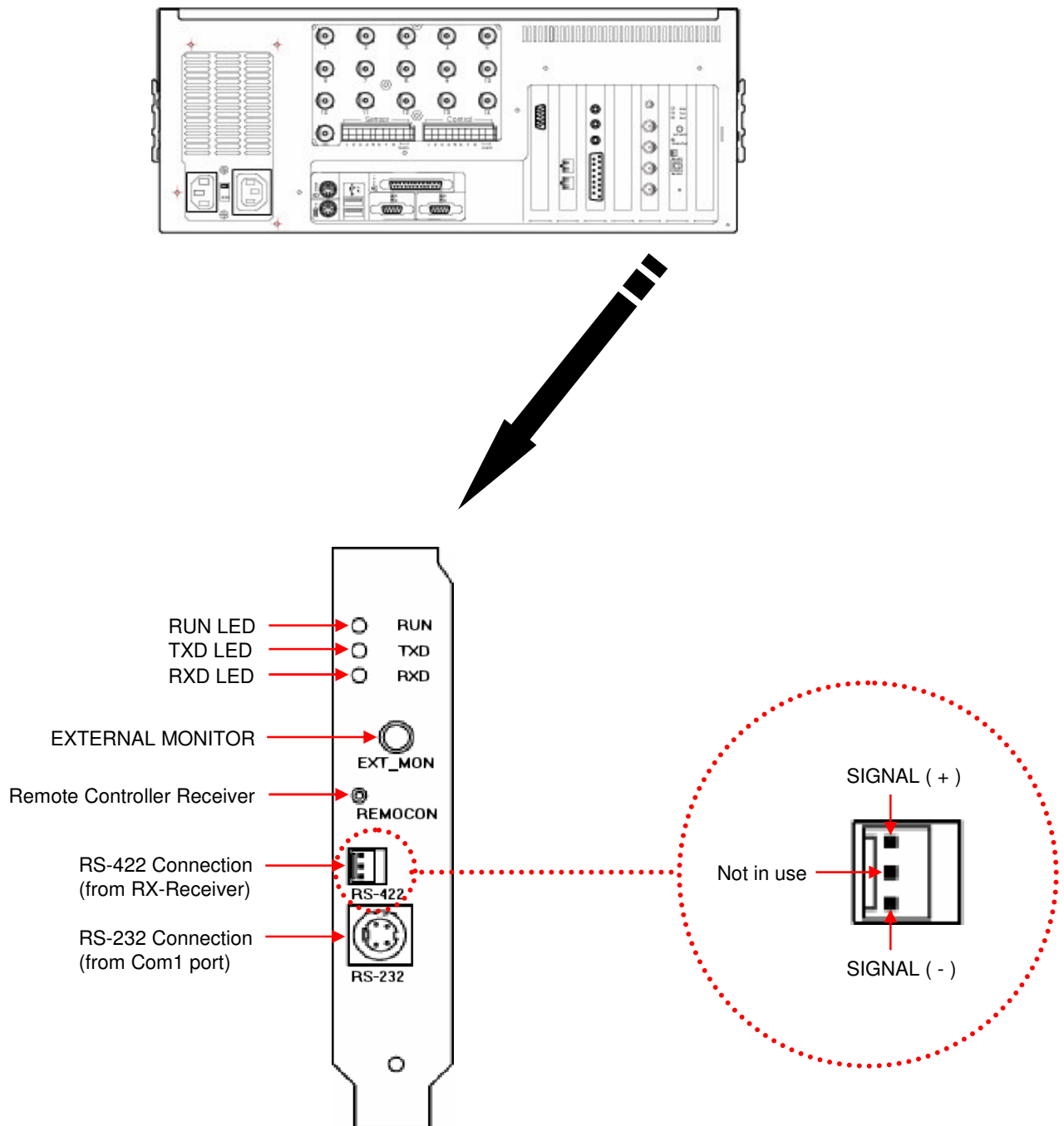
* Above view is typical for Fury series. Your model may slightly differ from the above in view.

1.4 Installation Procedure

Follow the steps below to install the DVR:

- Check inventory (see 1.1)
- Place the DVR to proper place following safety precautions in page 2.
- Connect cameras to the DVR (see 1.5 if PAN/TILT cameras are used)
- Connect the DVR to communication network (see 1.6)
- Connect external sensors and controls (see 1.7 and 1.8)
- Plug in the watchdog cable (see 1.9)
IMPORTANT: unconnected watchdog cable is common mistake when installing Fury DVR and causes rebooting every 10 minutes that may damage the hard disk in the DVR
- Plug in the power cable

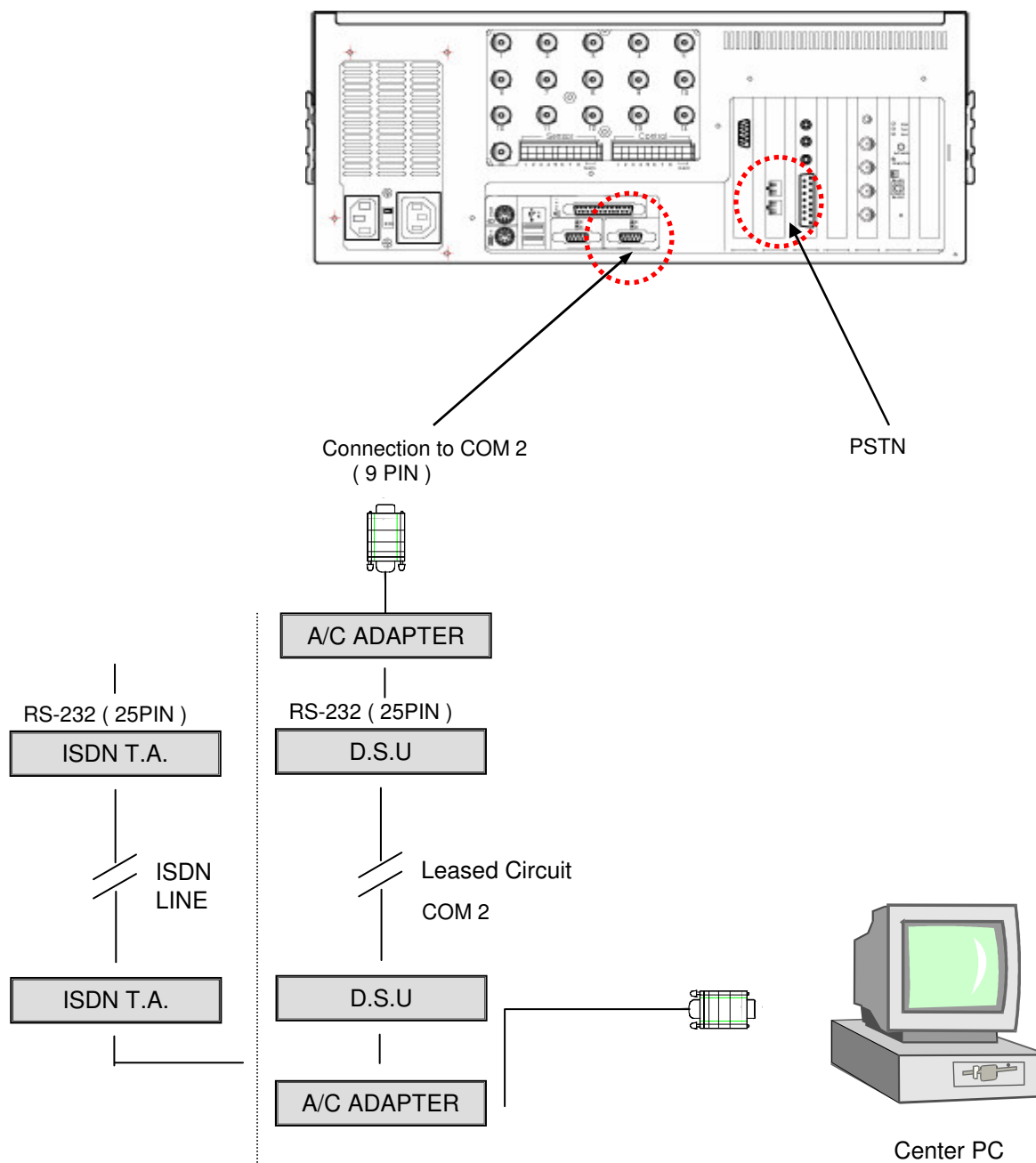
1.5 Connecting PAN/TILT drive



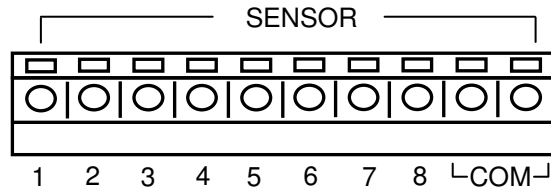
! Make sure positive (+) and minus (-) signs are correct. Connecting to wrong side may cause damage to the system.

Please contact your distributor when using other RX Receiver brand.

1.6 Connecting PSTN, ISDN, or leased circuit



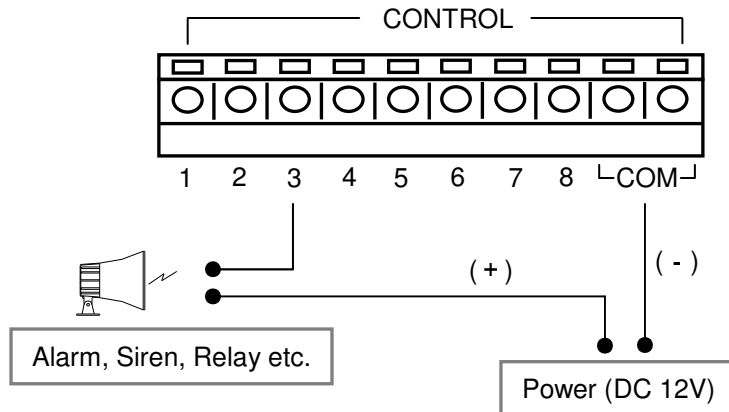
1.7 External sensor connection



Infrared rays, heat detection, and magnetic detection sensors should be connected to COM port. Other type of sensors can be connected to SENSOR port.

Use individual power adapters for each sensor.

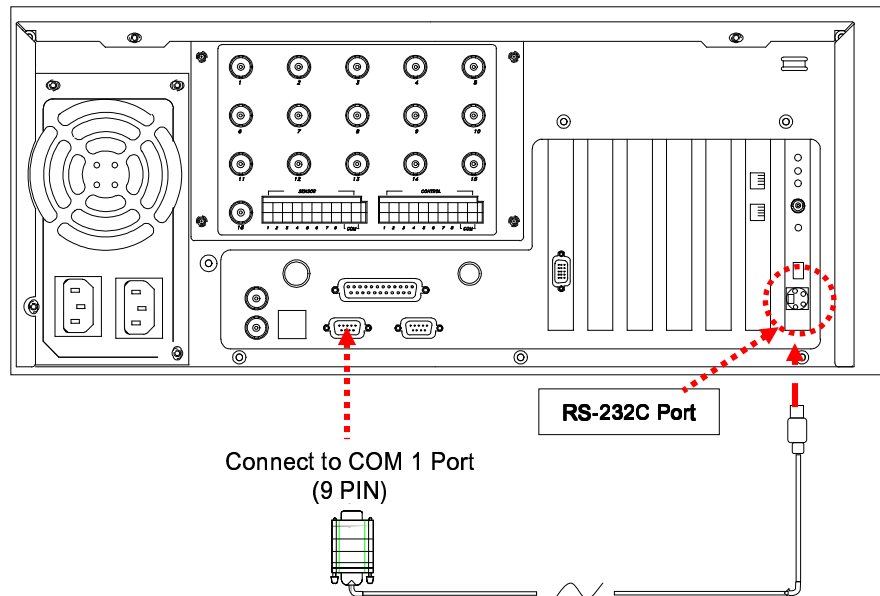
1.8 External control connection



Power adapters should be no more than 12V and 300mA.

Additional external relay should be used to turn controls on and off when powered through AC input.

1.9 Watchdog cable connection



In addition to watchdog function, Watchdog Cable is also used to:

- Enable Sensor function
- Enable Control function
- Enable P/T/Z function
- Enable External monitor output function (may vary depending on model)

Chapter 1 Installation & Setup

System Setup

1.10 System setup

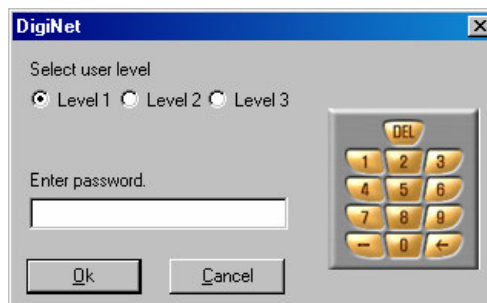
Initial Screen



System setup mode allows you to change the DVR settings and configure system environment according to your needs.



To enter the System Setup Mode:

- Click Setup on the initial screen.
- Enter password and click **Ok**.



Warning: The password is used to enter Search mode or System Setup mode. Please write down the password and keep it somewhere safe. See page 36 for details on how to change password.



Remember to click on  to save the changed settings. The DVR will not prompt you to save if you switch between tabs or click on  to close the System Setup window

1.11.1 Hardware setup - Cameras

Hardware setup allows users to modify external devices configurations, such as cameras, sensors and controls.

1 [Setup]

Check the box ☒ to use the camera.

2 [Name]

Type in camera names. Up to 14 characters are allowed.

3 [Sensor]

You can connect sensors to available cameras. This function enables cameras to record automatically when the connected sensor(s) is triggered.

To connect a sensor to a camera, type the number of the sensor in appropriate camera number.

If you wish to connect multiple sensors to a camera, type sensor numbers in the box, separating them by comma.

Example: In order for Camera 4 to start recording when Sensor 1 or Sensor 3 is triggered, type "1,3" in [Sensor] box against Camera 4

4 [Motion]

You can link cameras to other available cameras. This function enables linked cameras to record automatically when the main camera detects movement.

To link a camera to another camera, type the number of the camera you wish to connect in appropriate camera number. If you wish to connect multiple cameras to a camera, type camera numbers in the box, separating them by comma.

Example: In order for Camera 5 to start recording when Camera 1 or Camera 2 detects motion, type "1,2" in [Motion] box against Camera 5

SITE Setup

Password setup | Audio setup | System setup | Motion tracking setup | Storage setup | E-Map Setup | Copyright
 Hardware setup | Motion setup | Recording/Display | Schedule setup | Screen division | Modem setup | Site information

Camera setup

Setup	Name	Sensor	[Motion]	[P/T]	[Type]	[Emergency]
<input checked="" type="checkbox"/> 1	Garibong			<input type="checkbox"/>	KRE-301 FX	NoUse
<input checked="" type="checkbox"/> 2	POSITION2			<input type="checkbox"/>	KRE-301 FX	NoUse
<input checked="" type="checkbox"/> 3	POSITION3			<input type="checkbox"/>	KRE-301 FX	NoUse
<input checked="" type="checkbox"/> 4	POSITION4			<input type="checkbox"/>	KRE-301 FX	NoUse
<input checked="" type="checkbox"/> 5	POSITION5			<input type="checkbox"/>	KRE-301 FX	NoUse
<input checked="" type="checkbox"/> 6	POSITION6			<input type="checkbox"/>	KRE-301 FX	NoUse
<input checked="" type="checkbox"/> 7	POSITION7			<input type="checkbox"/>	KRE-301 FX	NoUse
<input checked="" type="checkbox"/> 8	POSITION8			<input type="checkbox"/>	KRE-301 FX	NoUse

Sensor setup

Setup	NC/NO
<input checked="" type="checkbox"/> 1	NC
<input checked="" type="checkbox"/> 2	NC
<input checked="" type="checkbox"/> 3	NC
<input checked="" type="checkbox"/> 4	NC
<input checked="" type="checkbox"/> 5	NC
<input checked="" type="checkbox"/> 6	NC
<input checked="" type="checkbox"/> 7	NC
<input checked="" type="checkbox"/> 8	NC

☒ Use alarm
☐ Not use alarm
 Recording time by sensor, motion: 1 sec

Control setup

Setup	Name	Auto ON/OFF time	Sensor	Working sec
<input checked="" type="checkbox"/> 1		00 : 00 ~ 00 : 00	<input type="checkbox"/>	0 Sec
<input checked="" type="checkbox"/> 2		00 : 00 ~ 00 : 00	<input type="checkbox"/>	0 Sec
<input checked="" type="checkbox"/> 3		00 : 00 ~ 00 : 00	<input type="checkbox"/>	0 Sec
<input checked="" type="checkbox"/> 4		00 : 00 ~ 00 : 00	<input type="checkbox"/>	0 Sec
<input checked="" type="checkbox"/> 5		00 : 00 ~ 00 : 00	<input type="checkbox"/>	0 Sec
<input checked="" type="checkbox"/> 6		00 : 00 ~ 00 : 00	<input type="checkbox"/>	0 Sec
<input checked="" type="checkbox"/> 7		00 : 00 ~ 00 : 00	<input type="checkbox"/>	0 Sec
<input checked="" type="checkbox"/> 8		00 : 00 ~ 00 : 00	<input type="checkbox"/>	0 Sec

External monitor

Select time(Sec): 3

<input checked="" type="checkbox"/> Camera 1	<input checked="" type="checkbox"/> Camera 9
<input checked="" type="checkbox"/> Camera 2	<input checked="" type="checkbox"/> Camera 10
<input checked="" type="checkbox"/> Camera 3	<input checked="" type="checkbox"/> Camera 11
<input checked="" type="checkbox"/> Camera 4	<input checked="" type="checkbox"/> Camera 12
<input checked="" type="checkbox"/> Camera 5	<input checked="" type="checkbox"/> Camera 13
<input checked="" type="checkbox"/> Camera 6	<input checked="" type="checkbox"/> Camera 14
<input checked="" type="checkbox"/> Camera 7	<input checked="" type="checkbox"/> Camera 15
<input checked="" type="checkbox"/> Camera 8	<input checked="" type="checkbox"/> Camera 16

Synchronize OSD Date/Time

Save Close

5 [P/T]

Check the box ☒ if the camera is of PAN/TILT type.

6 [Type]

Use the scroll bar to select PAN/TILT camera model from the list.
This option box is disabled if [P/T] box 5 is not selected

7 [Emergency]

Select a preset location where Pan/Tilt camera will return to when any linked sensor is triggered.

1.11.2 Hardware setup - Sensors

1 [Setup]

Check the box ☒ to enable sensors. Unchecked the box to disables sensors.

2 [NC/NO]

Choose sensor type. Click the button to switch between **[NC]** and **[NO]** sensor types.

- **NC** = Normally Close type. If the door/object with the sensor installed is not closed, the sensor will trigger.
- **NO** = Normally Open type. If the door/object with the sensor installed is not open, the sensor will trigger.

3 [Use alarm]

Selecting **[Use alarm]** will enable the built-in internal speaker to beep if a sensor is triggered. The speaker however will not beep if the corresponding camera schedule is set to **Continuous Recording** (see page 26).

4 [Recording Time]

Select the number of seconds to record when a sensor is triggered. This function will not work if the recording schedule is not set to **Sensor** or **Motion** (see page 26).

1.11.3 Hardware setup - Controls

Controls are used to turn on and off sirens, alarms, lights ... when certain events occur e.g. motion detected or a sensor triggered.

1 [Setup]

Check the box ☒ to use the controls.

2 [Name]

Type in control names. Up to 14 characters are allowed.

3 [Auto On/Off]

Auto function automatically activates controls during selected time. To enable Auto function, choose the time from scroll list. Default is set from 00:00 to 24:00.

4 [Sensor]

To connect a sensor to a control, type the number of the sensor on appropriate control number.

If you wish to connect multiple sensors to a control, type the sensor numbers in the box, separating them by comma.

Example: In order to turn on Control 3 when Sensor 1 or Sensor 2 triggers, type "1,2" in the box against Control 3.

5 [Working sec]

Assign how long the control will stay active once it is triggered. Maximum is 255 seconds and default is 0 seconds.

1.11.4 Hardware Setup – External Monitor

SITE Setup

Setup tabs: Password setup, Audio setup, System setup, Motion tracking setup, Storage setup, E-Map Setup, Copyright, Hardware setup, Motion setup, Recording/Display, Schedule setup, Screen division, Modem setup, Site information

Camera setup

Setup	Name	Sensor	[Motion]	[P/T]	[Type]	[Emergency]
✓ 1	Garibong				KRE-301 RX	NoUse
✓ 2	POSITION2				KRE-301 RX	NoUse
✓ 3	POSITION3				KRE-301 RX	NoUse
✓ 4	POSITION4				KRE-301 RX	NoUse
✓ 5	POSITION5				KRE-301 RX	NoUse
✓ 6	POSITION6				KRE-301 RX	NoUse
✓ 7	POSITION7				KRE-301 RX	NoUse
✓ 8	POSITION8				KRE-301 RX	NoUse

Sensor setup

Setup	NC/NO
✓ 1	NC
✓ 2	NC
✓ 3	NC
✓ 4	NC
✓ 5	NC
✓ 6	NC
✓ 7	NC
✓ 8	NC

Recording time by sensor, motion: 1 sec

Control setup

Setup	Name	Auto ON/OFF time	Sensor	Working sec
✓ 1		00 : 00 ~ 00 : 00		0 Sec
✓ 2		00 : 00 ~ 00 : 00		0 Sec
✓ 3		00 : 00 ~ 00 : 00		0 Sec
✓ 4		00 : 00 ~ 00 : 00		0 Sec
✓ 5		00 : 00 ~ 00 : 00		0 Sec
✓ 6		00 : 00 ~ 00 : 00		0 Sec
✓ 7		00 : 00 ~ 00 : 00		0 Sec
✓ 8		00 : 00 ~ 00 : 00		0 Sec

External monitor

Select time(Sec): 3

Camera selection checkboxes (all checked): Camera 1, Camera 2, Camera 3, Camera 4, Camera 5, Camera 6, Camera 7, Camera 8, Camera 9, Camera 10, Camera 11, Camera 12, Camera 13, Camera 14, Camera 15, Camera 16

Synchronize OSD Date/Time

Buttons: Save, Close

Home TV or normal analog monitor can be used as an external monitor to view images from Fury DVR.

1 [Select time (Sec)]

Select time for displaying a channel on external monitor.

Tip

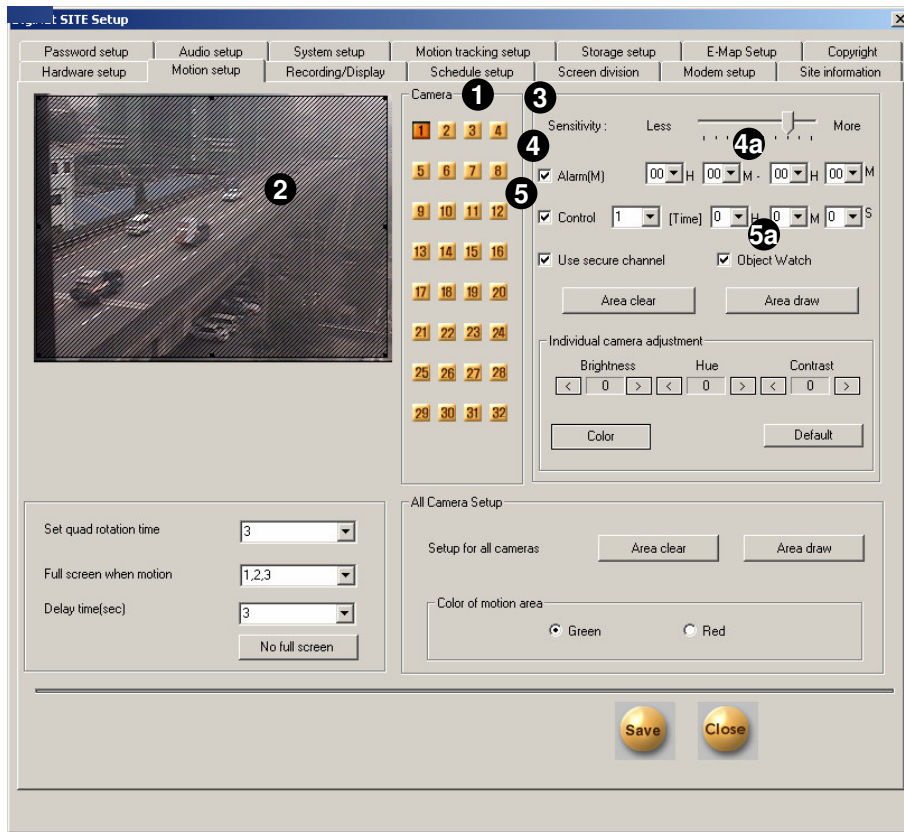
Images from external monitor output use Split Screening Method instead of Consecutive Conversion Method with the Fury

The screen on the external monitor is the same as seen on the DVR.

2 [Camera]

Select the channel you wish to display on the external monitor.

1.12 Motion Detection



Motion Detection contains the settings for cameras when motion is detected. This function is useful to save hard disk space from unnecessary recording.

1 [Camera]

Select the camera you wish to setup. The description below is related to the camera you selected here.

2 [Detection Area]

To enable cameras to record automatically by motion detection, you must select the detection areas. To select detection area, place the mouse cursor over the channel screen and drag the cursor in any direction you wish. You can assign up to 5 separate areas for each camera.

3 [Sensitivity]

Change sensitivity of motion detection. Default value is set to 15 and it is the recommended value.

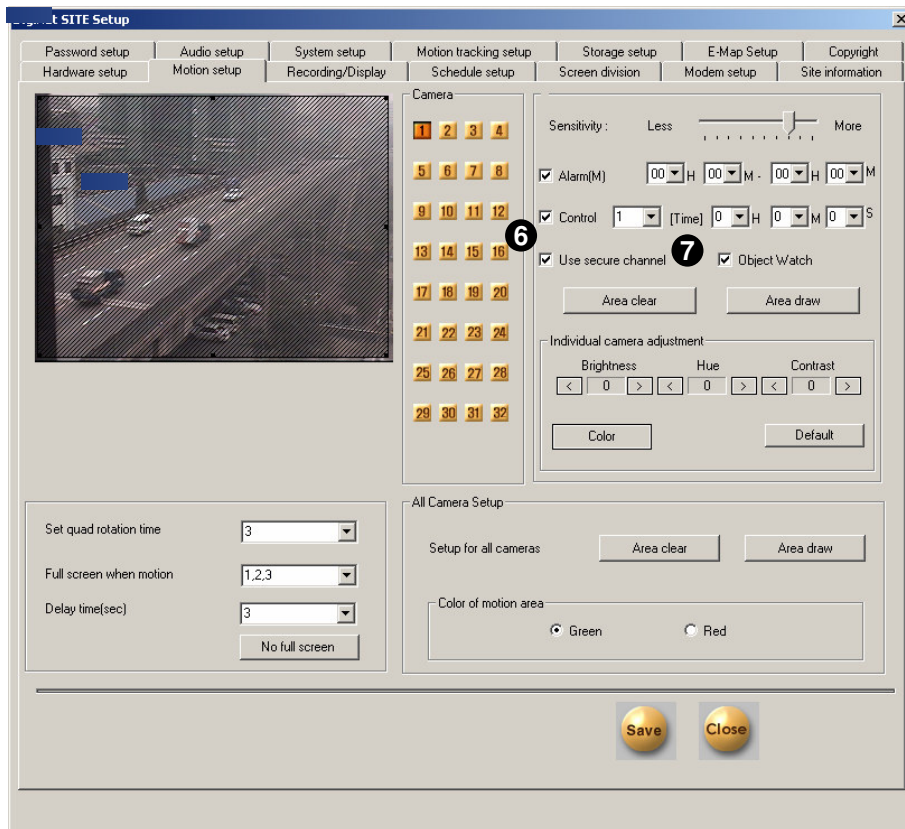
4 [Alarm]

If the box is checked, the internal speaker will beep when the camera detects motion.

The speaker however will not beep if the camera is set to Continuous Recording mode in Scheduled Setup (see page 26). The speaker's activation time can be set by the scroll lists **4a**

5 [Control]

When the camera detects motion, the connected control will activate for the designated time **5a**



6 [Use Secure Channel]

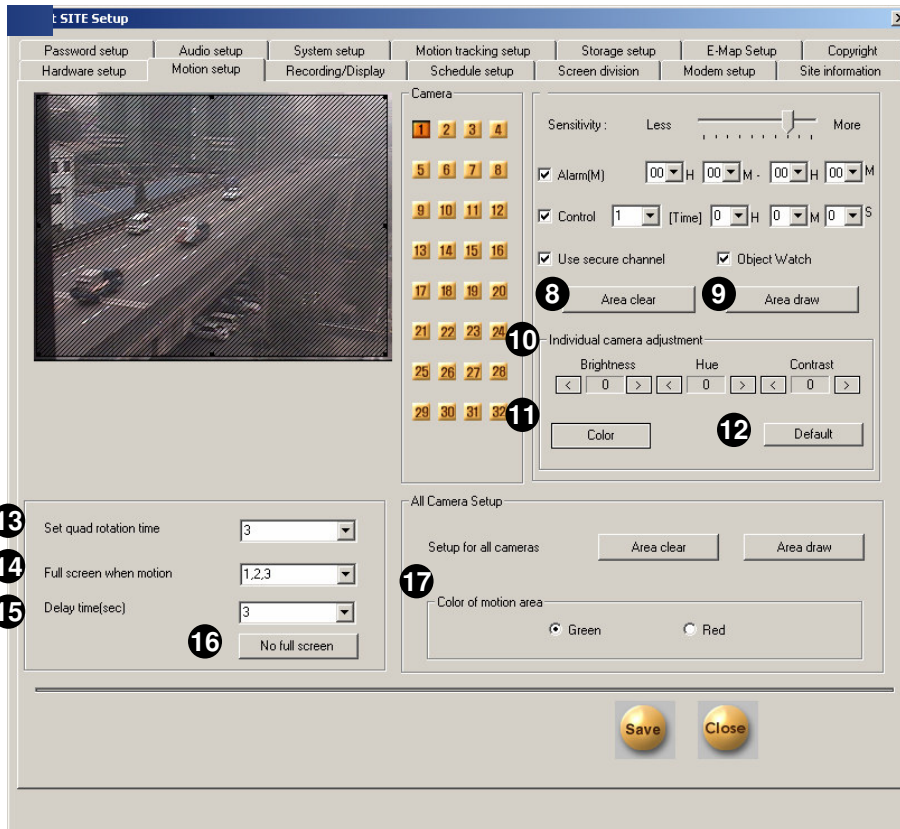
The system displays blank screen for camera channels if the box is checked. This allows system to record while protecting privacy from system operators or other unwanted eyes.



7 [Object Watch]

To use Object Watch function, select the camera number and check the [Object Watch] box.

In surveillance mode, if motion is detected within the Object Watch setup area, the cell color of the Object Watch change.



8 [Area Clear]

Delete Detection Area for selected camera. To manually delete an area, simply drag the detection area outside the channel screen.

9 [Area Draw]

Assign entire channel view as detection area.

10 [Camera Adjustment]

Adjust brightness, hue and contrast for each camera.
Caution: Adjusting these options will affect recorded data.

11 [Color]

If the camera is black-and-white, click [Color] to change the channel into **Black and White**. Default is set to **Color** for all channels.

12 [Default]

Set values in 10 and 11 back to default.

13 [Set quad rotation time]

Select rotation time for **Channel Rotation**. See [Channel Rotation] on page 55



Do not set the time to 0. The channels will rotate too fast.

14 [Full screen when motion]

The channels of the cameras specified in this box will change to full screen if they detect motion. If you wish to select multiple cameras, type the camera numbers in the box, separating them by comma.

15 [Delay Time (sec)]

Delay Time works in conjunction with [Full screen when motion], and will freeze the channel if motion is detected on cameras with [Full screen when motion] enabled. To enable Delay Time, select the number of seconds from scroll list.

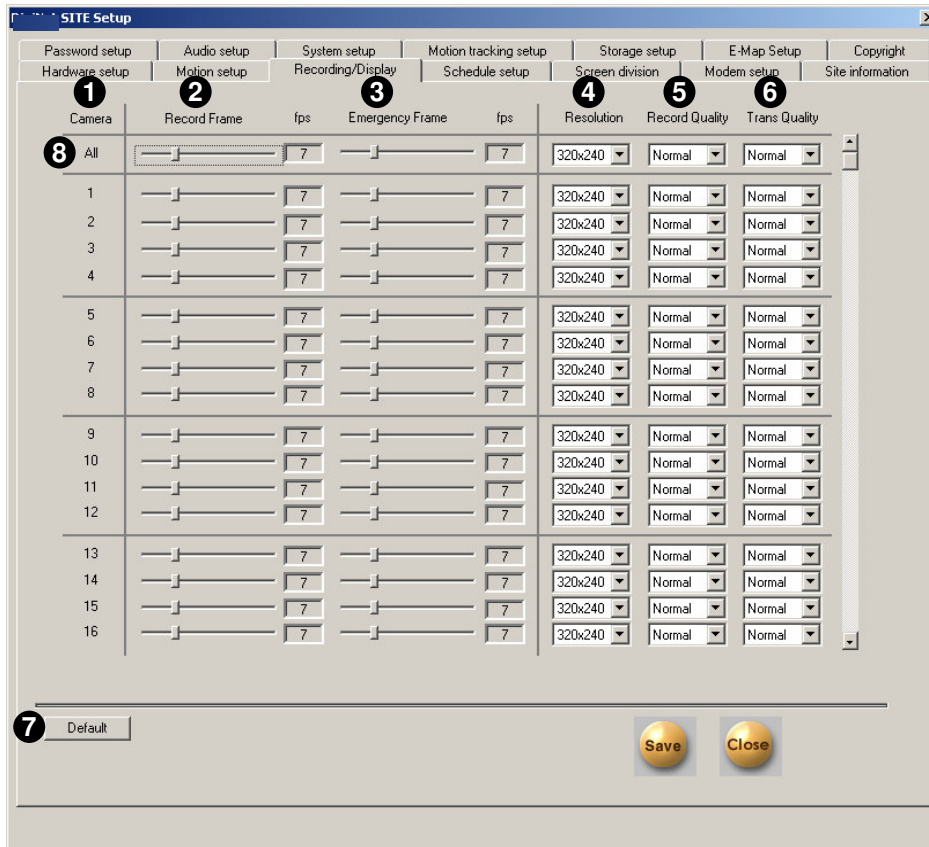
16 [No full screen]

Cancels options set on [Full screen when motion] and [Delay time].

17 [Color of Motion Area]

When a camera detects motion its channel will highlight the **Detection Areas** by the color you select here (Red or Green)

1.13 Recording/Display



Recording/Display tab contains the recording parameters such as recording speed, resolution and image quality.

1 [Camera]

Display camera number.

2 [Rec. Frame]

You can change the recording frame rate of each camera by sliding the scroll bar.

3 [Emergency Rec.]

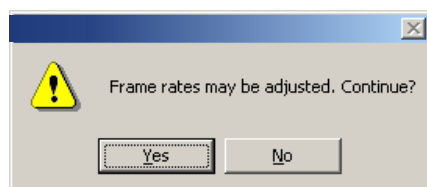
You can change the recording speed of each camera in case of emergency.

4 [Resolution]

You can change the image resolution of each camera.

320x240 or 640x480 (384x288 or 768x576 PAL) are recommended.

The DVR may automatically adjust the frame rate when selecting 640x480 (768x576 PAL). You will be prompted to confirm the change as shown below:



5 [Rec. Quality]

You can change the quality of the recording for each camera. The higher recording quality the more storage space is needed.

6 [Transfer Quality]

You can change the quality of the transfer image for use during transmission. The higher transfer quality the more bandwidth is needed.

7 [Default]

Change all the settings to the default values.

- ☛ Selection of Resolution, Rec. Quality and Transfer Quality under **[All]** 8 (see picture on page 24) will apply the selected value to all cameras.

Resolution Record Quality Trans Quality

640x480 Best Normal

320x240 Normal High

(Resolution by NTSC)

All 7

Default recording frame rate per channel for Fury

Channel	Recording Frame
4 Ch.	30 frames per second
8 Ch.	15 frames per second
16 Ch.	7 frames per second

When you increase the recording frame rate of any camera, the frame rate for other cameras may decrease automatically.

1.14 Recording schedule

Schedule setup tab contains recording schedules for each camera

1 [Camera]

Select the camera you wish to setup. All the description below is related to the selected camera.

2 [Setting Recording Mode]

The table displays recording mode for every hour. To change Record Mode, click on the hour you wish to change (you can drag mouse to select multiple boxes). The selected time will be highlighted blue. Then change the mode from **Record Mode** setting 4

To be exact to minutes, click on the time you wish to change and a horizontal bar will appear:



← 01 min 59 min →

Simply slide the bar left or right to change minutes.

4 [Record Mode]

Select Record Mode for selected time interval. If no mode is selected, the system will not record. Default is **Motion & Sensor Record** for 24 hours for all date of the year.

Recording Modes	Supported recording mode/combinations
<ul style="list-style-type: none"> • C: Continuous Recording • M: Motion Recording • S: Sensor Recording • P: Pre-Alarm Recording 	<ul style="list-style-type: none"> • No recording • Continuous recording • Motion recording • Sensor recording • Pre-Alarm Recording • Sensor & Pre-Alarm recording • Motion & Pre-Alarm recording • Motion & Sensor recording • Motion & Sensor & Pre-Alarm recording

3 [Simple/Advanced Mode]

In Advance Mode, you can set recording mode separately for weekdays, Saturday and Sunday/Holiday.

! Motion Recording, Sensor Recording, and Pre-Alarm Recording cannot be enabled in conjunction with Continuous Recording.

t SITE Setup

Password setup | Audio setup | System setup | Motion tracking setup | Storage setup | E-Map Setup | Copyright
 Hardware setup | Motion setup | Recording/Display | Schedule setup | Screen division | Modem setup | Site information

Camera

1	17
2	18
3	19
4	20
5	21
6	22
7	23
8	24
9	25
10	26
11	27
12	28
13	29
14	30
15	31
16	32

Camera 1	Weekday	Saturday	Sunday/Holiday
00:00-01:00	M-S	M-S	M-S
01:00-02:00	M-S	M-S	M-S
02:00-03:00	M-S	M-S	M-S
03:00-04:00	M-S	M-S	M-S
04:00-05:00	M-S	M-S	M-S
05:00-06:00	M-S	M-S	M-S
06:00-07:00	M-S	M-S	M-S
07:00-08:00	M-S	M-S	M-S
08:00-09:00	M-S	M-S	M-S
09:00-10:00	M-S	M-S	M-S
10:00-11:00	M-S	M-S	M-S
11:00-12:00	M-S	M-S	M-S
12:00-13:00	M-S	M-S	M-S
13:00-14:00	M-S	M-S	M-S
14:00-15:00	M-S	M-S	M-S
15:00-16:00	M-S	M-S	M-S
16:00-17:00	M-S	M-S	M-S
17:00-18:00	M-S	M-S	M-S
18:00-19:00	M-S	M-S	M-S
19:00-20:00	M-S	M-S	M-S
20:00-21:00	M-S	M-S	M-S
21:00-22:00	M-S	M-S	M-S
22:00-23:00	M-S	M-S	M-S
23:00-24:00	M-S	M-S	M-S

Advanced mode

Record mode

☐ C: Continuous

☐ M: Motion

☐ S: Sensor

☐ P: Prealarm

5 Copy to

6 Set holiday

Save Close

5 [Copy To]

To copy the camera's schedule to other cameras, click **Copy To** and select the camera number you wish to copy to.

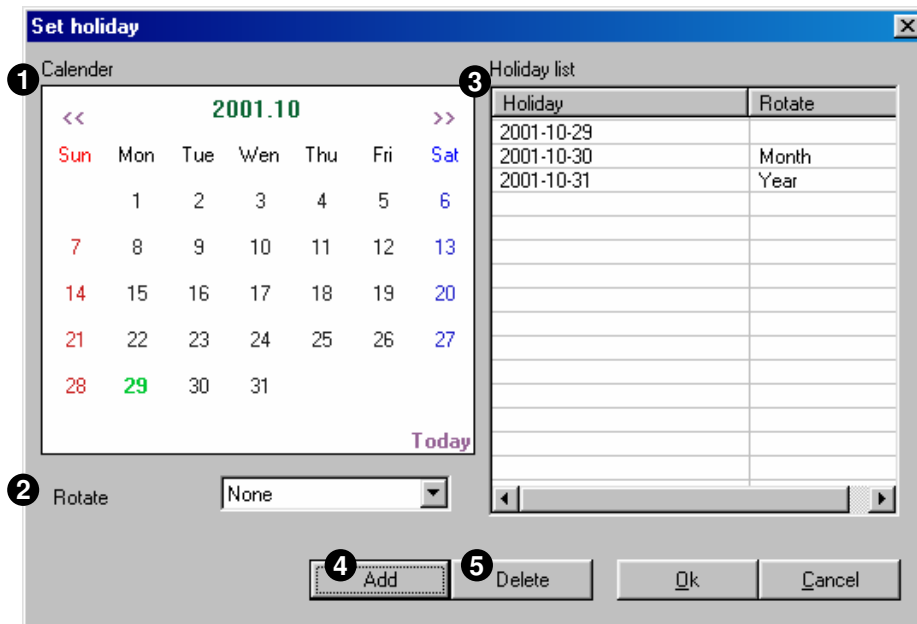
6 [Set holiday]

You can set any specific days as holiday (more details in page 28).



Do not forget to save after you make any change to Schedule.

Schedule setup - Holiday



1 [Calendar]

Displays a calendar where you can designate any date as a holiday.

- << Move to previous month.
- >> Move to next month.

2 [Rotate]

To set the selected day(s) as monthly holiday, select **[Month]** from the scroll list. To set as yearly holiday, select **[Year]** from the scroll list. Leaving the option **None** will designate the selected day(s) as holiday for that specific month and year.

3 [Holiday List]

Displays the list of designated holidays sorted by time.

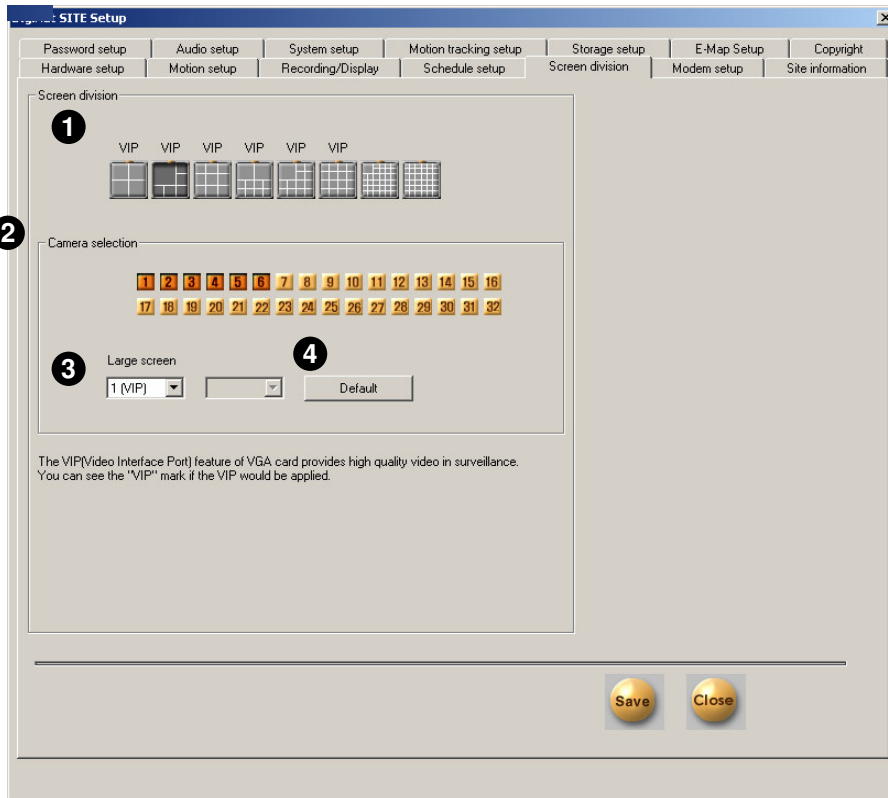
4 [Add]

Click to add selected date(s) as holiday.

5 [Delete]

To delete a designated holiday from the list.

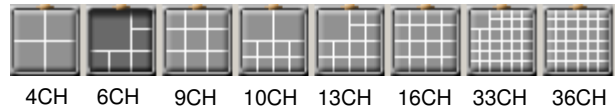
1.15 Screen Division



Screen division tab contains the settings for split screen modes

1 [Screen Division]

Screen division assigns which cameras will be displays on which split screen mode. Select the split screen mode you want to setup here.



If a split screen is supported by VIP (Video Interface Port), VIP mark appears above the icon.

2 [Camera selection]

Select cameras to view in the chosen split screen mode.

3 [Large screen]

When using 6, 10, 13, or 33 split screen mode, you can select which camera(s) should be displayed on large channel(s).

If the camera has Video Interface Port, [VIP] mark is followed by the camera number.

4 [Default]

Set all options to default value.

1.16 Modem

Modem setup tab contains the settings for communication of the DVR.

In the description below, “the Site” is referred to the DVR itself, and the Center PC is referred to the PC connected to the DVR.

1 [Type of connection]

LAN, PSTN, ISDN, Leased Circuit can be used for remote connection.

ISDN or Leased circuit with router connection is possible and ISDN or PSTN can be used to connect to DVR directly without router.

To disable remote connection, check the option box **[No connection]**.

2 [Password]

Enter 4-digit password to login to the site from the Center PC.

[Password] : Enter the 4-digit numeric password

[Confirm] : Re-enter the password to confirm.

3 [Live Video stream bandwidth]

Set the communication bandwidth for transmitting video image to the Center PC.

4 [Max Acceptable]

Set the maximum number of sites than can be connected to the Center PC. One Center PC can connect up to 120 different sites.

5 [Transfer secure channel]

Check the option box to view the secure channel on the remote Center PC.

6 [DDNS Setup]

If you wish to use DDNS, click on **[DDNS Setup]**.

You can connect Center PC to Site DVR simply if you input IP address which is linked with the dynamic IP used by the Site user.

[Tip]

When you try to connect to a Site from the Center PC, system checks for the site code and password, and if they are not identical, you will be disconnected automatically.

(if the site program uses a dynamic IP, the Center program cannot access the site program)

SITE Setup

Password setup | Audio setup | System setup | Motion tracking setup | Storage setup | E-Map Setup | Copyright
 Hardware setup | Motion setup | Recording/Display | Schedule setup | Screen division | Modem setup | Site information

Type of connection

☐ No connection
☒ LAN/PSTN/ISDN/LEASED CIRCUIT(Router)

Password:
 Confirm:

Live video stream bandwidth: ☐ Transfer secure channel

Max Acceptable:

Emergency setup

7 Motion for Emergency Message:

8 Sensor for emergency:

9 Transfer time:

☐ Emergency phone numbers:
☒ Emergency IP address:
☒ Use E-Mail Service

WebDVR

11 ☐ Anonymous Login

7 [Motion for Emergency Message]

When selected cameras detect motion, an emergency message will be displayed automatically on Emergency Monitor window on Center PC, provided Center Software is installed and running. To specify the IP address of the PC with Center program installed, enter the IP address on **[Emergency IP address]**.

8 [Sensor for emergency]

When selected sensors are triggered, the internal speaker on Center PC will beep and the recorded video of the connected camera(s) will be transferred to the Center PC.

9 [Transfer time(sec)]

Indicates how long the recorded data will be transferred to the Center PC when sensor is triggered. Simply select the time from the scroll list. If the sensor signal is re-triggered during the transfer, the DVR will transfer the data again.

10 [Emergency phone numbers/Emergency IP address]

If Site is connected to the Center PC through LAN or Leased Circuit, enter the IP address for emergency image or data transmission. When using modem connection, and selected cameras detect motion, the system will automatically dial the number entered in the box. If it fails to connect, the system will dial the numbers entered in the second box.

11 [Anonymous Login]

Check the box to enable anonymous login to WebDVR via Internet. Network security should be concerned when using this function.

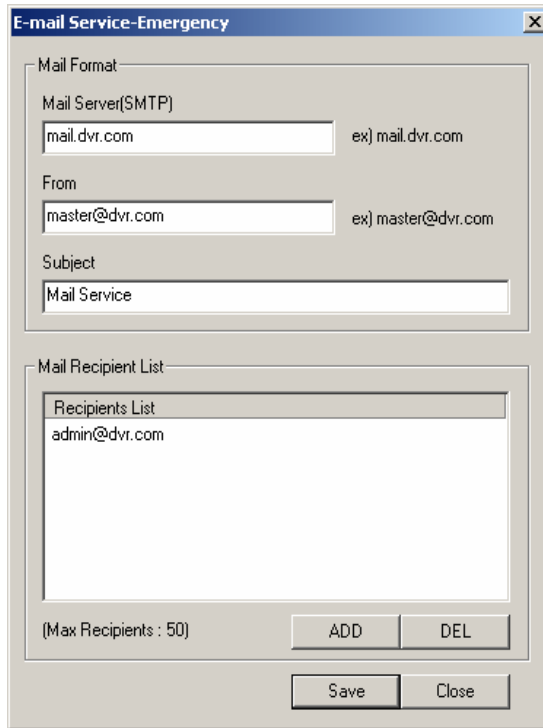
[Tip]

For detail on WebDVR, refer to Center Manual.

12 [Use E-Mail Service]

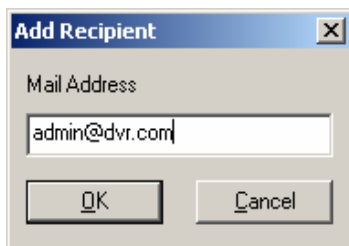
You can send an emergency recording data to your e-mail account.

If you click on **[Recipient]**, a window as below appears.



The 'E-mail Service-Emergency' dialog box is shown. It has a title bar with a close button. The main area is divided into two sections. The top section, 'Mail Format', contains three input fields: 'Mail Server(SMTP)' with the value 'mail.dvr.com' and a hint 'ex) mail.dvr.com', 'From' with the value 'master@dvr.com' and a hint 'ex) master@dvr.com', and 'Subject' with the value 'Mail Service'. The bottom section, 'Mail Recipient List', contains a list box labeled 'Recipients List' with the value 'admin@dvr.com'. Below the list box is a label '(Max Recipients : 50)'. At the bottom of the dialog are four buttons: 'ADD', 'DEL', 'Save', and 'Close'.

- **[Mail Server (SMTP)]** Enter the address of the outgoing (SMTP) mail server.
- **[From]** Enter the e-mail account of the sender.
- **[Subject]** Enter the title of the e-mail.
- **[Mail Recipient List]** Displays the list of recipients' e-mail accounts.
- **[ADD]** To add a recipient to the list.
- **[DEL]** To delete an e-mail account from the list.



The 'Add Recipient' dialog box is shown. It has a title bar with a close button. The main area contains a label 'Mail Address' and an input field with the value 'admin@dvr.com'. At the bottom are two buttons: 'OK' and 'Cancel'.

[Tip]

For details on User Management and network setup see Appendix C

1.17 Site information

Site information tab contains system-related information such as Site code, Site name, software version, You can also adjust Surveillance mode options here .

1 [Site Information]

Displays Site Code, Location, Model, Distributor, Sales Date, and other related information. You can also leave notes.



When logging onto the Site from the Center PC, the system checks the validity of Site code and the correct password. If either is incorrect, the system will automatically disconnect.

2 [Camera status bar]

When enabled, the DVR displays camera recording status in **Surveillance** mode.



3 [Sensor status bar]

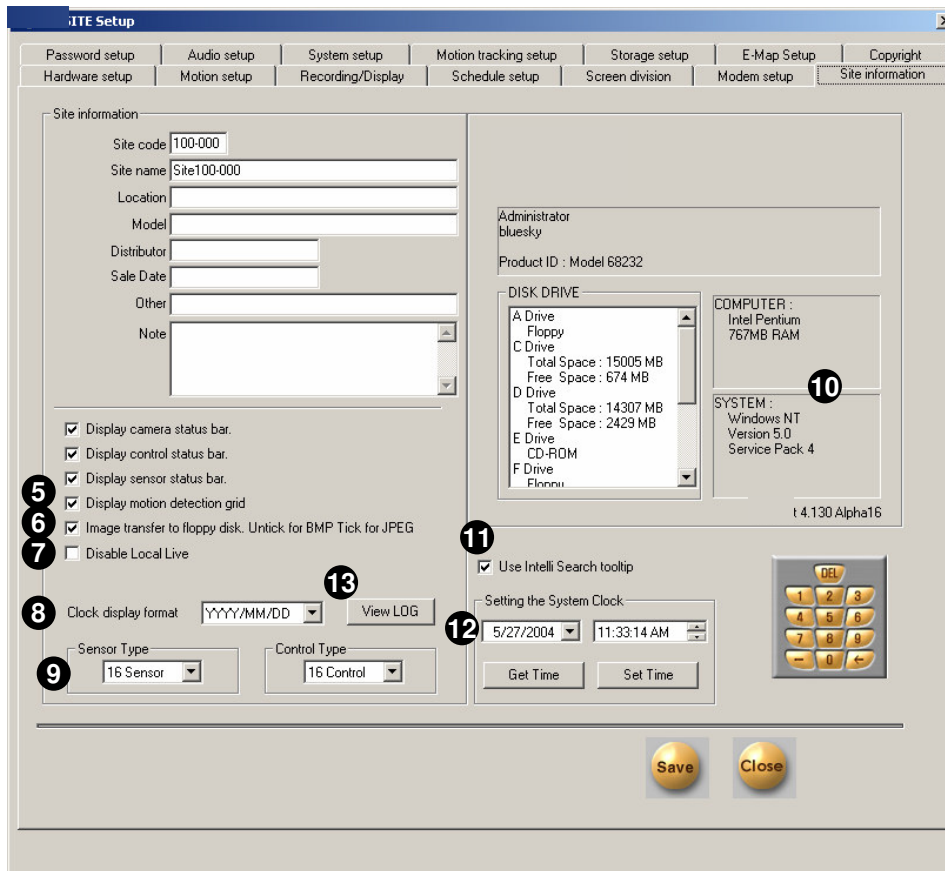
When enabled, the system displays sensor status in **Surveillance** mode.



4 [Control status bar]

When enabled, the System displays control status in **Surveillance** mode.





5 [Display motion detection grid]

When enabled, the channels with Detection Area will display **Motion Detection Grid** in **Surveillance** mode (see page 21 for **Detection Area**).

6 [Image transfer to floppy disk]

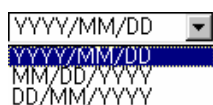
If this option is selected, the floppy backup (see 2.17.1) will save images in JPEG format. If unchecked, the images will be saved in BMP format (See 2.17 for details on Backup).

7 [Disable Local Live]

When enabled, the image will not be displayed on the screen while the system is recording.

8 [Date display format]

Adjusts date display format in **Surveillance** mode. To change the date format, select a format from the scroll list.



9 [Sensor Type] [Control Type]

Select 4, 8 or 16 sensors/controls to display their buttons in Surveillance mode.

10 [Site]

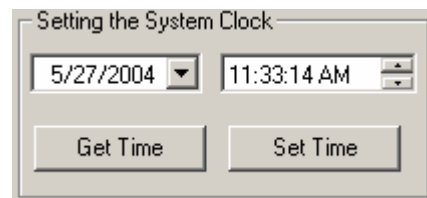
Displays the DVR model and Site software version, Hard Disk Drive size, computer specifications, and Windows Operating System information.

11 [Use Intelli Search tooltip]

If enabled, leaving the mouse cursor over a button in **Search** mode will bring up tooltip for the button.

12 [Setting the System Clock]

Change or correct your system clock.



Get Time

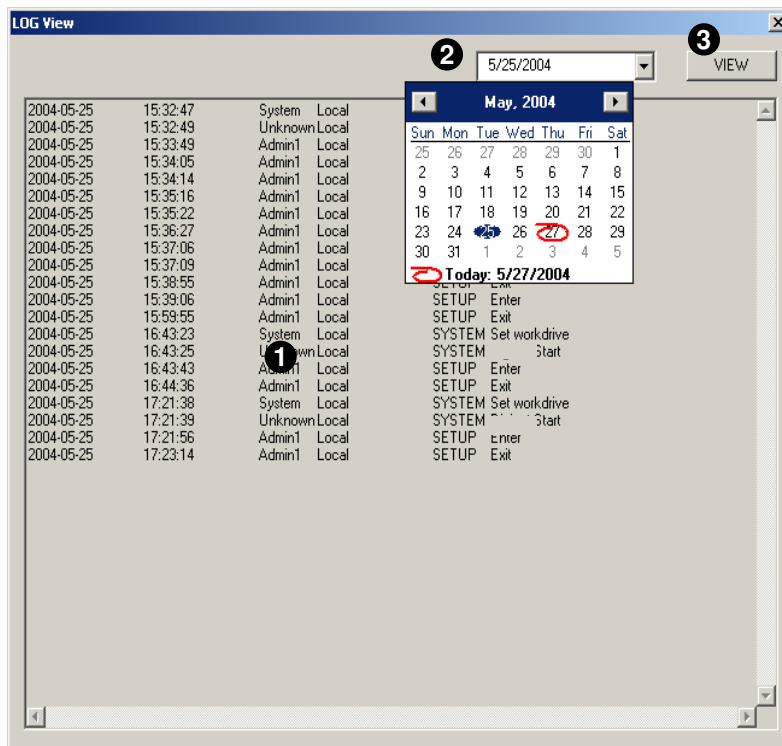
Load default time.

Set Time

Save the selected time.

⚠ The clock can be only forward but not backward.

13 [View Log] (see picture on page 34)



Pressing the [View Log] button will display the log information on Setup option change, search record and network connection record etc.


1 [Log entries]

The log entries display information on date and time, the user, location, and actions that have been done

2 [Date and Time]

You can select a date to view the recorded log entries.

3 [View]

Press  to display the log entries of the selected date.

1.18 Password setup

Setup lists	Level 2	Level 3
Hardware setup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Motion setup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Store Schedule Setup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Div screen setup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Modem setup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Site information	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
System setup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Audio Setup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Motion Tracking Setup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Disk Allocation Setup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E-Map Setup	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Search	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Enable to Secure-Ch search	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Exit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Password setup tab contains password settings. There are 3 levels of password protection in Fury DVRs. Administrator (level 1) has full access to the system and can modify Level 2 and Level 3 authority.

Password is used to protect access to Search Mode and Setup Mode only. Surveillance Mode is not protected by password.

1 [Password change]

Password is required to access **Setup** mode and **Search** mode.

Level 1 user works as administrator and users of Level 2 and 3 work as operators. Therefore it is recommended for administrator to set all passwords.

The administrator has no system restrictions, has privileges to change Level 2 and Level 3 restrictions and authorizations, and can modify their authority.

2 [Old password]

Enter current password.

3 [New password]

Enter new password.

- Password must be 4-digit numbers
- By default password is not set

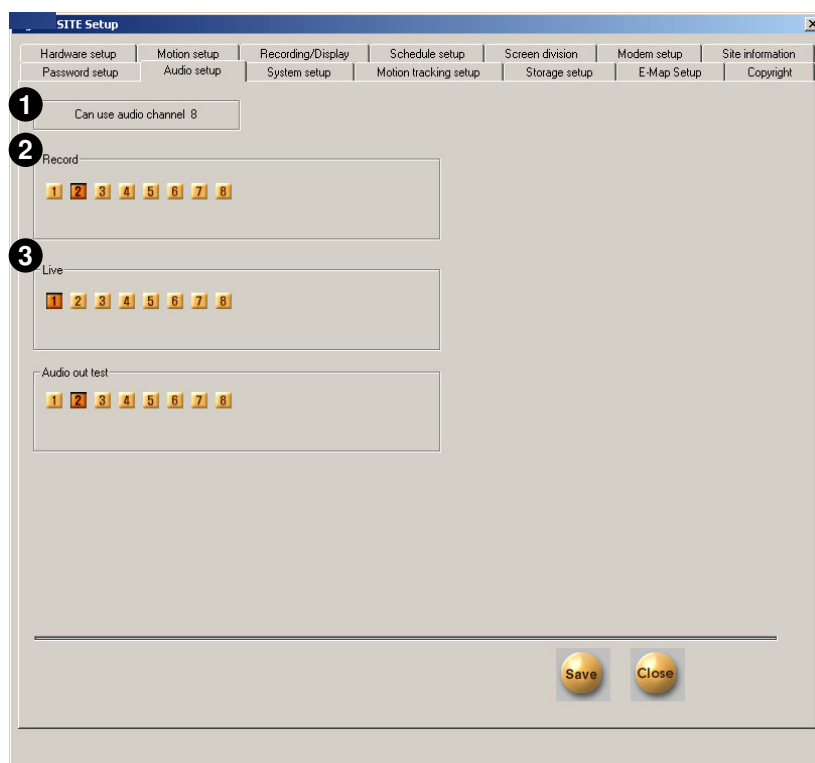
4 [Confirm]

Enter the new password again for confirmation.

5 [Setup list]

Check on various options to modify Level 2 and Level 3 restrictions and privileges. Administrator (Level 1) can access to all options.

1.19 Audio setup



Audio setup tab contain settings for audio recording and playback, live audio and audio communication between the Site and the Center PC.

1 [Can use audio channel 8]

Displays available audio channels.

3 [Live]

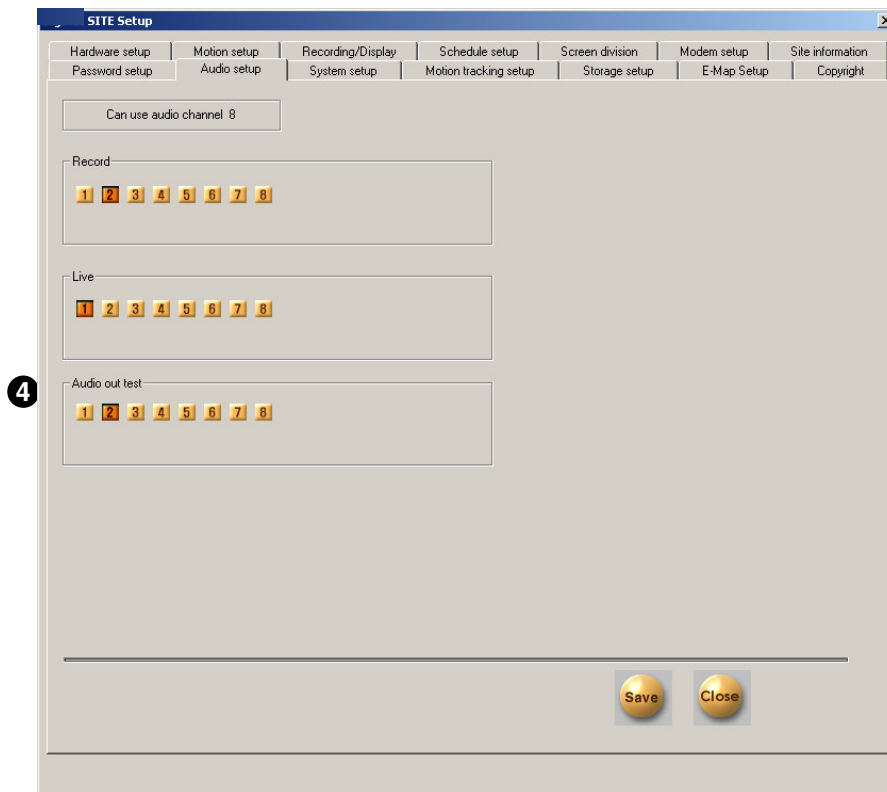
If you wish to listen to live audio on one channel under the surveillance mode, click on the channel you wish to listen. The selected channel must be connected with an audio input.

For details how to listen to more than 1 live audio channel in Surveillance mode see page 74

2 [Record]

Select camera number with which you wish to record audio together.

Audio can be recorded only when video signals are captured for recording.



4 [Audio out test]

Select the channel to check the sound output status.

[Tips]

If a built-in sound card is installed, 2-way audio communication between the Center and the Site is available.

Audio recording function will automatically stop when you initiate 2-way audio communication.

When using a sound card, you must change the Windows sound setup to record audio and to use 2-way audio communication (See appendix D for details).

In the Surveillance mode when a channel connected with a microphone is made full screen, you can listen to the live audio together with the live image (See page 68 **[Maximizing 1 ch]** for details).

1.20 System setup

The screenshot shows the 'SITE Setup' window with the 'System setup' tab selected. The 'Recording/Display System setup' tab is highlighted with a red circle. Numbered callouts indicate the following sections:

- 1** System off time: A section with checkboxes for days of the week (Sunday through Saturday) and time selection (H, M).
- 2** System restart time: A section with a 'Used' checkbox, frequency options (Daily, Weekly, Monthly), and a time selection (Time: 3:00:00 AM).
- 3** Watermark: A section with a 'Use Watermark' checkbox.
- 4** Display Watermark protect image: A checkbox within the Watermark section.

System setup tab contains additional hardware settings, backup schedule, watermark settings and system-off settings.

1 [System off time]

Assign the DVR to turn off automatically during selected day and hours. To set **System off time**, select the days and choose time from the scroll list.

2 [System restart time]

Assign the DVR to restart on daily basis on selected time. Regular restarts make the DVR more stable and lower the risk of errors. To set **System restart time**, check on **Used** and select time from scroll list.

3 [Use Watermark]

Enable or disable **Watermark** feature.

4 [Display Watermark protect image]

When enabled, the channels display **"Watermarked"** on the top right corner of all channels.

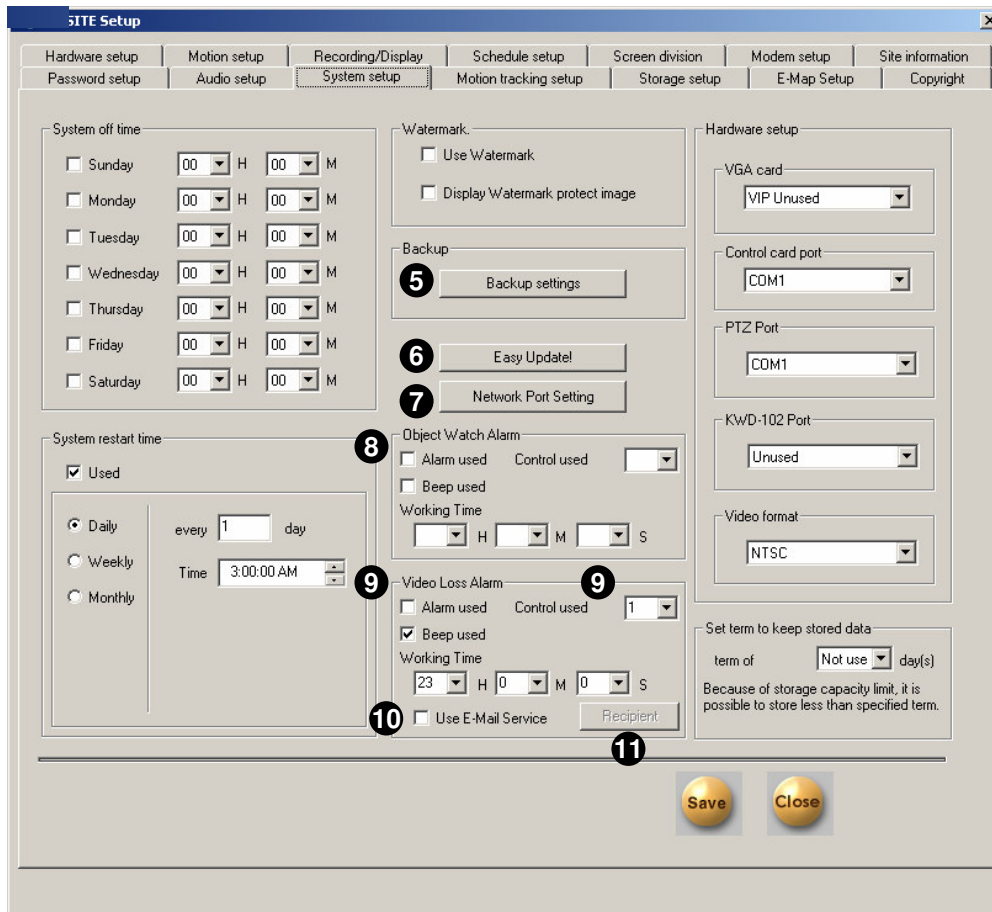


What is Watermark?

BMP or JPEG images can be modified by unauthorized ones, and modified images can look just as realistic as original images.

Watermark feature helps to distinguish between the original images and modified images. When the System saves an image onto its Hard disk drive, it will encode each image with **Watermark** (provided you have **Watermark** feature enabled from **System Setting**), leaving a "mark" on each image.

When an image is modified, the "mark" will change, therefore allowing the system to differentiate between modified images and original images.



5 [Backup settings]

Configure backup schedule (see page 56 for details)

6 [Easy Update!]

To update the system software, click [Easy update] button (see page 61 for details).

7 [Network Port Setting]

Network ports used for Site-Center communication must be the same on the both sided. Site's network ports can be assigned here.

8 [Object Watch Alarm]

User can have the Object Watch function linked to Alarm, Control or Beep. The activation time can be defined by the user.

9 [Video Loss Alarm]

The DVR can be setup to beep, activate alarm or raise alert by email whenever video loss is detected. This prevents unauthorized personnel from disabling cameras.

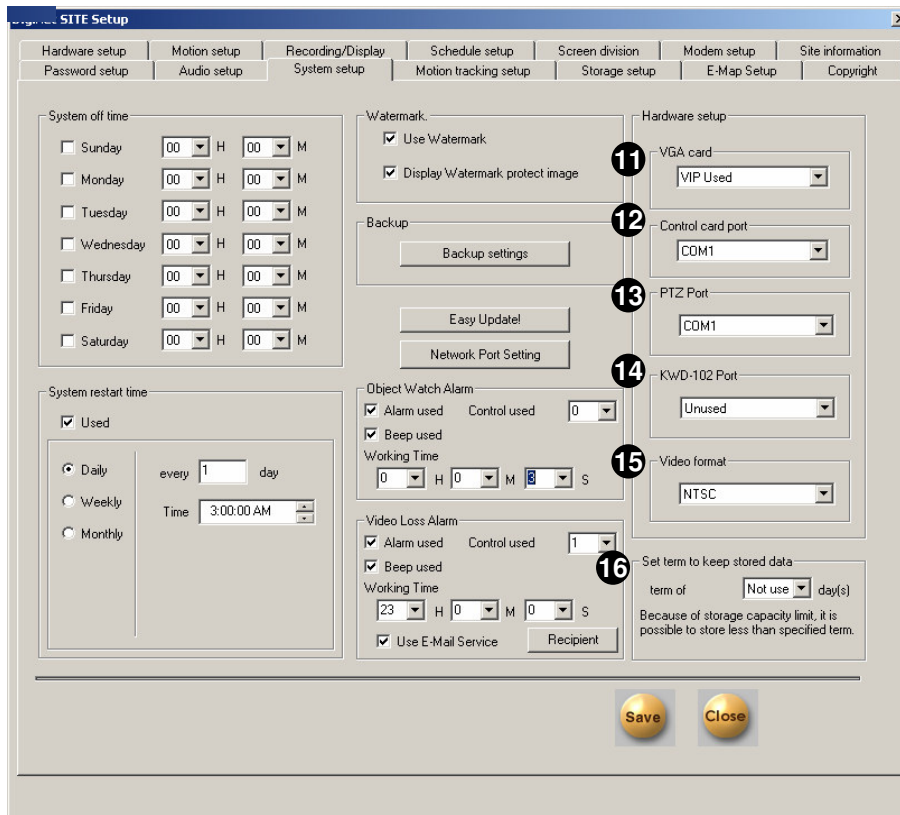
[Alarm used] – Check this box to use alarm and select the corresponding Control from

[Beep used] – Check this box to use beep sound.

[Working Time] – Designate the duration of alarm or beep sound.

10 [Use E-Mail Service]

To receive video loss alert by e-mail, check the box. The email recipients then can be entered by clicking 11



11 [VGA Card]

You can obtain high quality backup image if you use VIP function. Select the option to use VIP.

Default is "VIP unused".

VIP function can work with KMC-8416 capture card.

12 [Control Card Port]

Select the Com port for Control card.

Correct port is selected from the manufacturer.

13 [PTZ Port]

Set the COM port for PAN/TILT.

When controlling PAN/TILT from the control card, set COM Port identical to [Control Card Port].

If the PAN/TILT camera uses RS-232's signal from COM Port for RX Receiver or Speed Dome, set COM Port but separate then control it with [Control Card Port] to the corresponding PAN/TILT.

14 [Port]

Set the COM port.

When any program error occurs, it will operate for 10 minutes. If the error is not corrected within 10 minutes, this will operate every 60 minutes thereon.

This is applied only in case of video loss.

15 [Video Format]

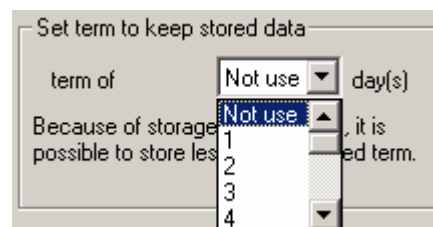
Select NTSC or PAL according to the video method used in your region.

16 [Set term to keep stored data]

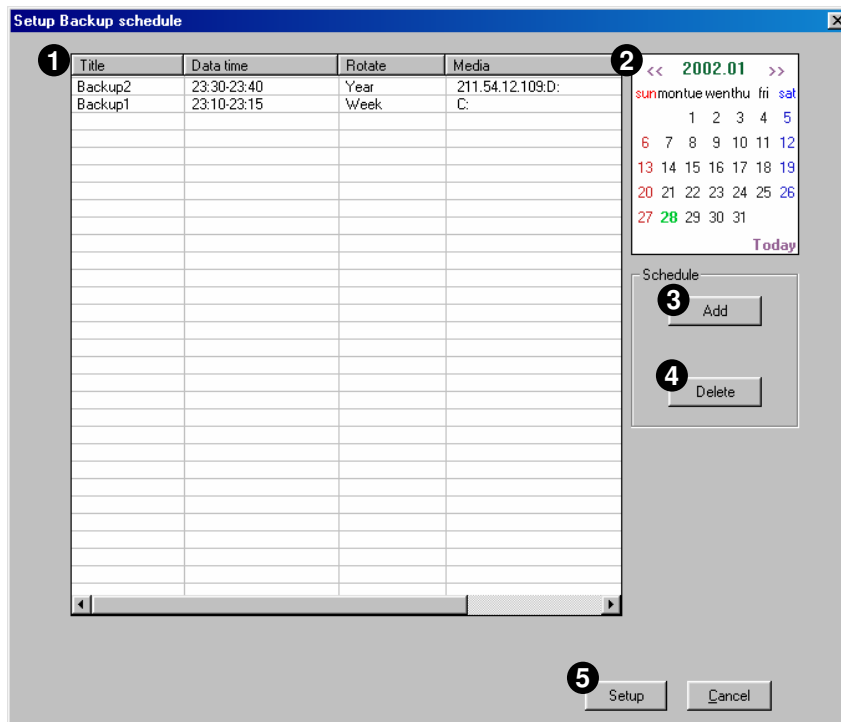
Set the storage period after which the stored data will be automatically deleted.

The default setup is [Not use].

Select the number of days from the scroll list and click Save.



Backup schedule



1 [Backup list]

Displays the list of scheduled backups, sorted by time.

2 [Calendar]

Displays a calendar. Select a date when you want to schedule a backup.

- << Move to previous month.
- >> Move to next month.

3 [Add]

Add a backup to the list 1 (see details in page 43).

4 [Delete]

Select a backup schedule from the list and click **Delete** to delete it from the list.

5 [Setup]

Click **Setup** to save the schedule or click **Cancel** to exit without saving.

Adding backup schedule

The screenshot shows the 'Add schedule' dialog box with the following fields and controls:

- 1 Title:** A text input field with the placeholder 'Input the title name of backup data'.
- 2 Date/Time:** A section containing 'Start' and 'End' date and time pickers. Both are currently set to 'Monday, January 28, 2002' and '6:18:00 PM' / '6:19:00 PM' respectively.
- 3 Rotate option:** A dropdown menu currently set to 'None'.
- 4 Backup start time interval after:** A dropdown menu currently set to 'Immediately'.
- 5 Media:** A section containing a 'Media list' with three entries: 'Drive : C:', 'Drive : D:', and 'Network : 211.51.192.110.E:'. Below the list are 'Up', 'Down', and 'Delete' buttons, and an 'Add media' button.
- 6 Setup:** A section containing an 'Overwrite mode' checkbox (unchecked), a 'Priority' dropdown menu (set to 'Backup after precedent backup'), and 'Add' and 'Cancel' buttons at the bottom.

1 [Title]

Type in the title of the backup.

2 [Date & Time]

Displays starting and ending time of the backup. To select date and time, use the scroll list to set date and either use the arrows or type in the numbers to set time.

3 [Rotate option]

The backup's rotation can be set to monthly or yearly here.

4 [Backup start time interval after]

Assign when the DVR will start the backup. If the option is **Immediately**, the DVR will create a backup as soon as the it finishes the recording job. If the option is **4 hours** the DVR will create backup after 4 hours after it finishes the recording job.

5 [Media list]

Displays list of available media. If the system fails to backup onto the first medium on the list, it will attempt to backup onto the secondly listed medium and so on.

The system can backup onto the following media:

- Hard Disk Drive
- CD-ROM
- Portable Drive
- Network Drive
- Remote IP Address

[Up/Down/Delete]

Move media up, down, or delete a media from the list.

[Add media]

Add a medium to the list. You can add up to 8 media to the list.

6 [Setup]

[Overwrite mode]

If there is not enough space to create a backup, the system will automatically delete the old data

[Priority]

Set backup's priority when other backups are scheduled. Setting the option to **Backup after precedent backup** will place the backup in queue. **Backup after current backup** will ignore the queue.

Add schedule

Title: Input the title name of backup data

Date/Time

Start: Monday, January 28, 2002 6:18:00 PM

End: Monday, January 28, 2002 6:19:00 PM

Rotate option: None

Backup start time interval after: Immediately

Media

Media list

Drive: C:
Drive: D:
Network: 211.51.192.110:E:

Up Down Delete

Add media

Setup

☐ Overwrite mode

Priority: Backup after precedent backup

Add Cancel

7

7 [Add]

Click **Add** to accept the setting and add the backup to backup schedule.

Backup media – local drive

Select backup media

Select media

1 ☒ Local drive

2 ☐ Remote drive

Path: c: d: e: f:

IP address

Password

Drive: Select drive

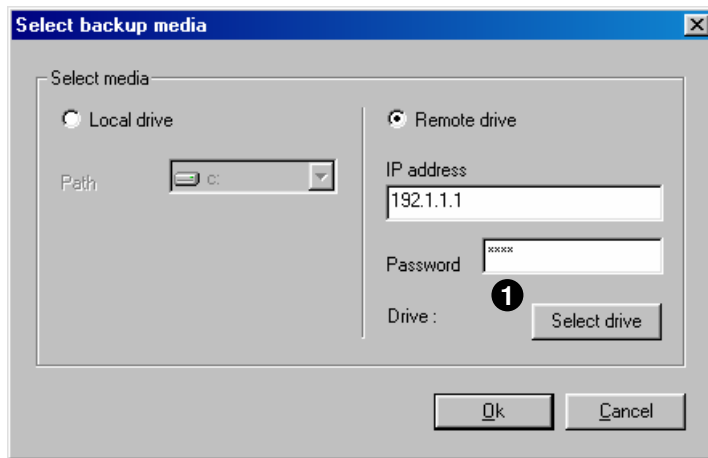
Ok Cancel

1 [Local drive]

To backup onto the DVR you are using, select **[Local drive]** and choose media from the scroll list. **[Local drive]** includes:

- Hard Disk Drive
- CD-ROM
- Portable Drive

Backup media – remote drive

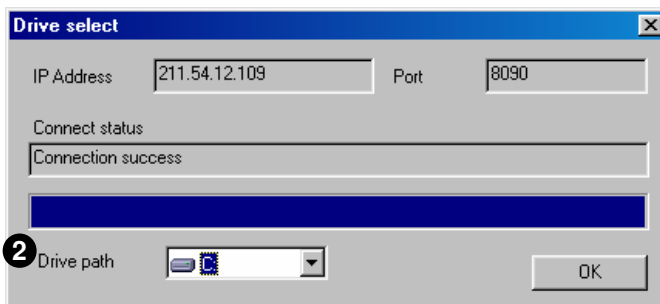


2 [Remote drive]

To backup onto Center PC linked with the DVR, select **Remote drive**, type the IP address of the Center PC, and type the access password. You must have Center program and Remote Backup Server program running (see Center program manual for details).

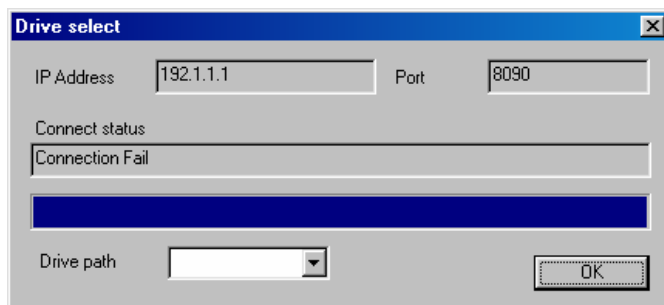
1 [Select drive]

Type the correct IP address and password (above address only serves as example) and click **Select drive**.



2 [Drive path]

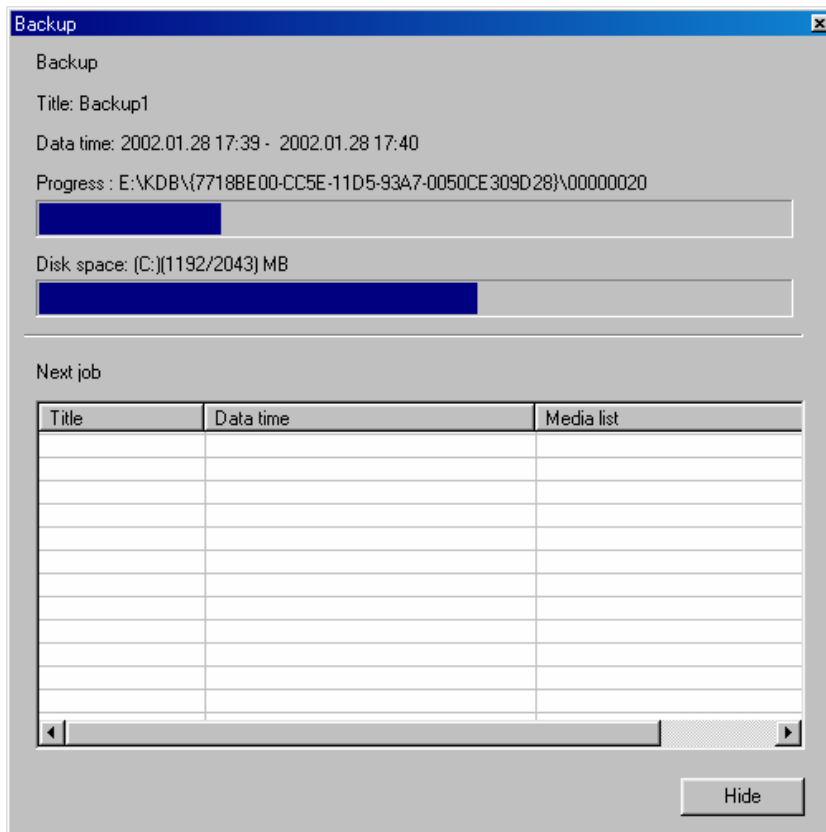
If the system successfully connects to Center PC, you can select a **Drive path** from the scroll list.



3 [Connection Fail]

If the system fails to connect to Center software, either due to incorrect IP Address or incorrect password, you will not be able to select **Drive path** and cannot create a backup.

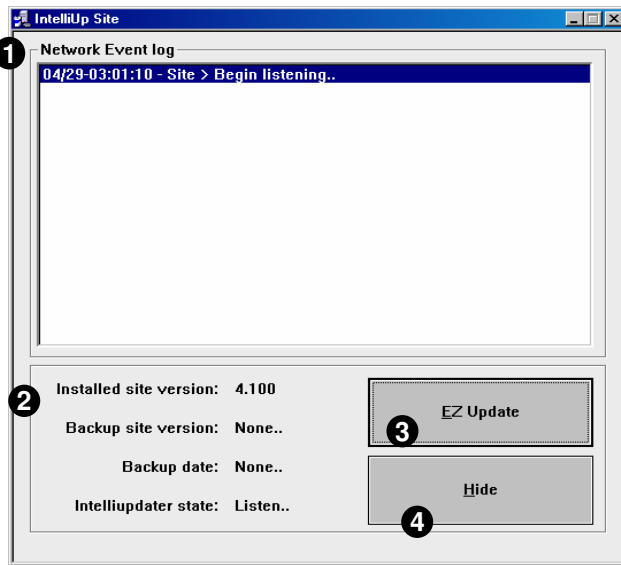
Backup progress



1 [Backup progressing indicator]

When backup is in progress, icon will appear on the top of the screen. Double-click on it to see the backup progress in detail.

Easy Update



Clicking **Easy Update!** button in **System Setting** will launch IntelliUp Site program. **IntelliUp Site** program continuously runs on the background and automatically downloads any incoming update packages.

1 [Network Event log]

Displays network events.

2 [Installed site version]

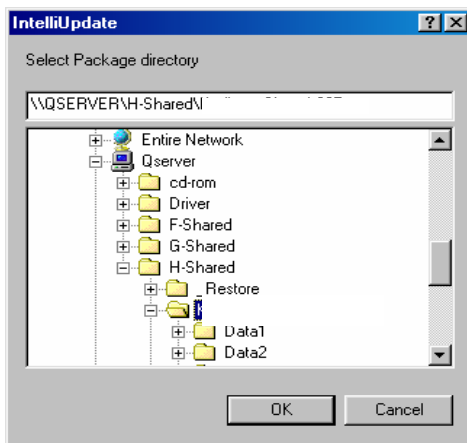
Currently installed Site program version.

3 [EZ Update]

If you downloaded a newer version of System package, you can click **EZ Update** button and update the system software.

4 [Hide]

Hide **IntelliUp Site** program.



5 [Select Package directory]

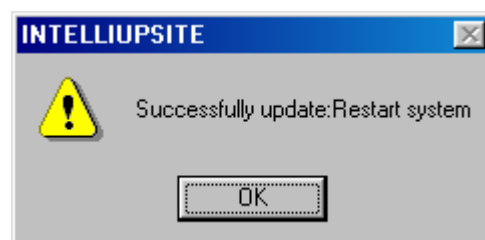
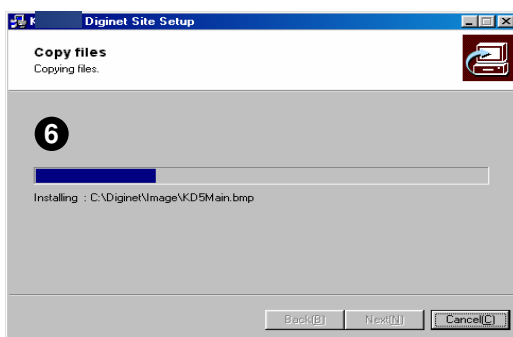
When you click **EZ Update** button, you will be required to choose the location of Site software package folder. The folder must contain all necessary Data folders or all files must be included in one folder.



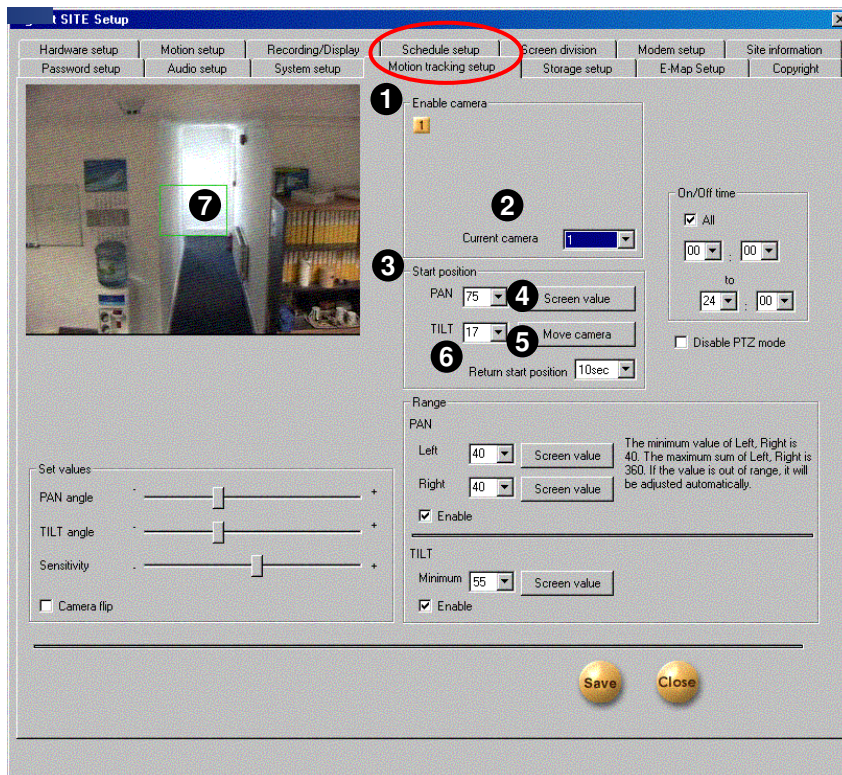
- If the data files are located in floppy disks, copy the files into System hard disk drive.
- If any files are missing or corrupt, the System will not update.

6 [Installation]

Once you have selected the correct program folder, the DVR will check the package files for any errors then begin updating.



1.21 Motion tracking



Motion tracking tab contains the settings for cameras to track moving objects (motion tracking).

1 [Enable camera]

Displays number of cameras that support motion tracking. To enable motion tracking, click the available camera.

2 [Current camera]

Select the camera you wish to setup for motion tracking. All description below is related to the selected camera

3 [Start position]

Select camera's starting position. If the camera loses track of the moving object, it will return to the this position. You can either select the position from the scroll list or click mouse to the position on the channel view **7**

4 [Screen Value]

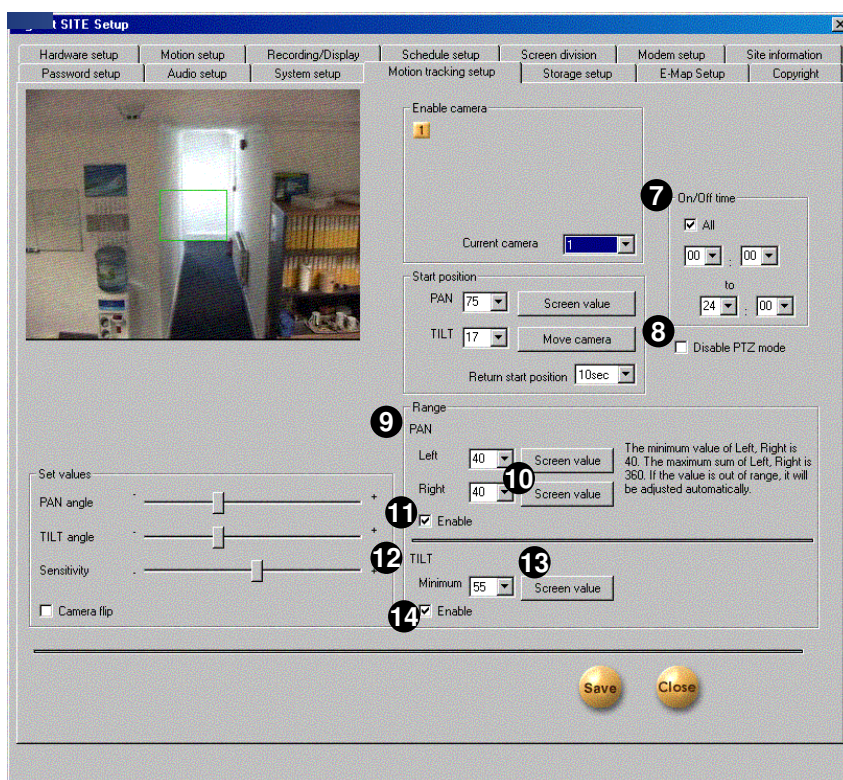
The starting position changes to where the camera's currently pointing.

5 [Move Camera]

Move the camera to **Start position**.

6 [Return start position]

Assign how long the camera will stay in it's current position after losing track of the moving object before returning to the starting position.



7 [On/Off time]

Enable motion tracking only during selected time. The default is set from 00:00 to 24:00. To change time, simply select from the scroll list.

11 [Enable]

Enable or disable PAN movement. Disabling this option will prevent the camera from moving horizontally.

8 [Disable PTZ mode]

Enable or disable PTZ control during motion tracking. Uncheck it to enable controlling the camera manually during motion tracking.

12 [Range] [TILT]

Assign how wide the camera can move vertically from it's default starting position (default starting position for TILT is always set to 0°). TILT value cannot exceed 90°.

9 [Range] [PAN]

Assign how wide the camera can move horizontally from it's starting position. The minimum value of left and right is 40° and the sum of left and right value cannot exceed 360°. If the sum value exceeds 360°, the system will adjust the angle automatically.

13 [Screen value]

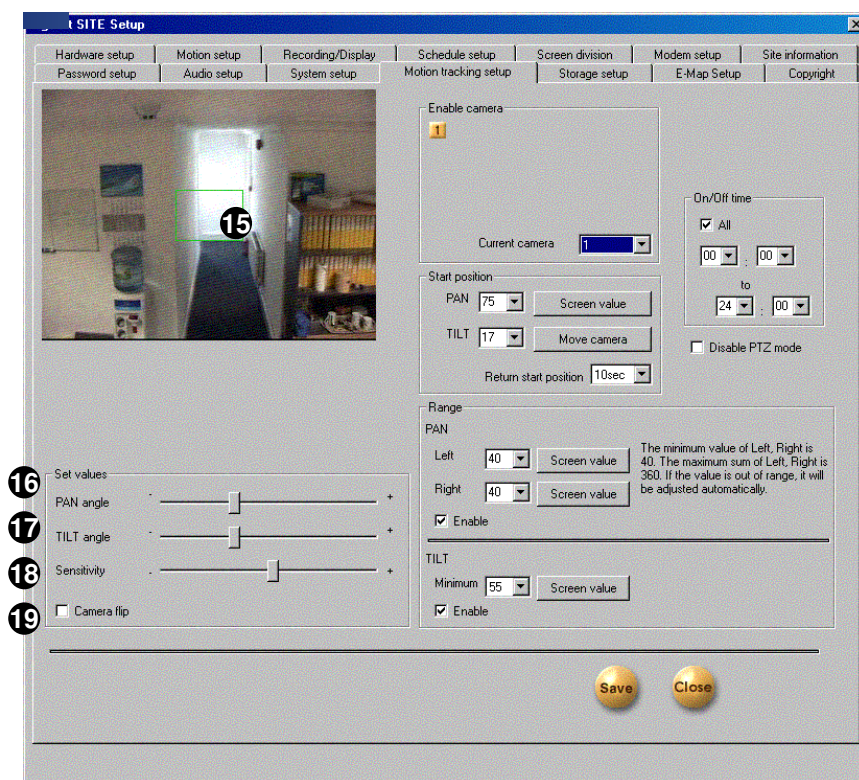
The **TILT** value changes to where the camera's currently pointing.

10 [Screen value]

The **Pan** value changes to where the camera's currently pointing.

14 [Enable]

Enable or disable TILT movement. Disabling this option will prevent the camera from moving vertically.



15 [Channel view]

Displays image from the selected camera channel. Clicking anywhere on the channel view will move the camera to that position.

16 [PAN angle]

Adjust sensitivity of camera's horizontal movement. If the camera moves too much or too less when tracking movement, adjust **PAN angle** accordingly.

17 [TILT angle]

Adjust sensitivity of camera's vertical movement. If the camera moves too much or too less when tracking movement, adjust **TILT angle** accordingly.

18 [Sensitivity]

Adjust camera motion tracking sensitivity. If the camera reacts too much to small movements, or does not react even when there is large movement, adjust camera **sensitivity** accordingly.

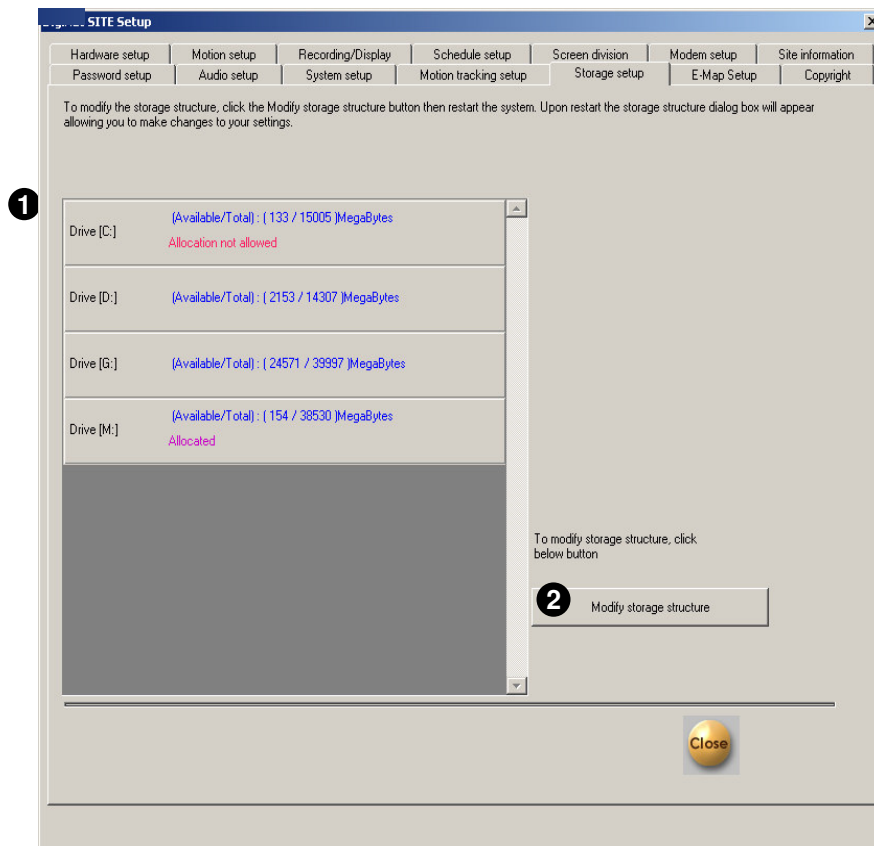
19 [Camera flip]

If the camera is attached upside down (e.g. attached on ground surface), enabling **Camera flip** will flip the camera's image vertically.



- When there are multiple moving objects, the camera will track the most active object.
- When motion tracking is enabled on a camera, the corresponding channel will display "PAN/TILT" and "Motion tracking" on the top left corner.
- The DVR will ignore motion tracking setting when controlling the camera manually (manual control must be enabled – see 8 page 64).
- For optimal performance, decrease the camera's motion tracking sensitivity in dark places and increase the sensitivity in bright places.

1.22 Storage



Storage setup tab contains information and settings for storage structure.

1 [Drive Allocation]

Displays the list of local hard disk partitions. The list also shows available space and used space for each partition.

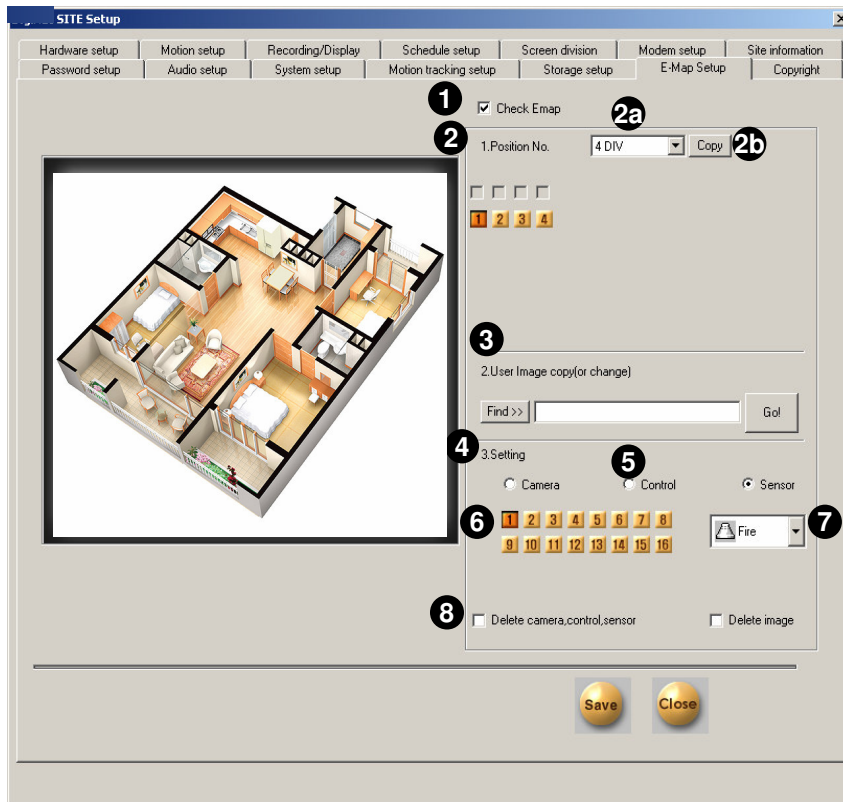
2 [Modify storage structure]

To re-allocate storage structure, press **Modify storage structure** button then restart the system. Upon restart the storage structure box will appear, allowing you to make changes to your setting.

[Tips]

To store video data on a partition, special structure of files and folders need be created. "Allocation" is process of creating this structure.

1.23 E - Map



E-Map tab contains the settings for E-Map. E-Map is computer map of the area with designated locations of installed cameras, sensors and controls

1 [Check Emap]

Check the box to enable E-map.

2 [Position No.]

For a split screen mode ^{2a} you can assign on which channel the E-Map will be displayed (scroll list option may vary depending on Fury Model).

You can copy E-map settings to another channel of another split screen mode by clicking on ^{2b} and select the split screen mode and the channel number you wish to copy to.

3 [User Image copy]

Click **Find** and select the image file to use as an E-map, then click **Go!** to display the image.

The DVR will automatically copy the image to its backup folder. The backup file will be overwritten when another E-Map image file is selected.

The image file must be in BMP format.

4 [Setting]

You can mark positions of the installed cameras, controls, and sensors on the E-Map.

To mark a device, select its type ⁵ (camera, control or sensor) and its number ⁶. Then select the device from the scroll list on the right ⁷ and click to the location of the device on the E-Map to insert the device's icon.

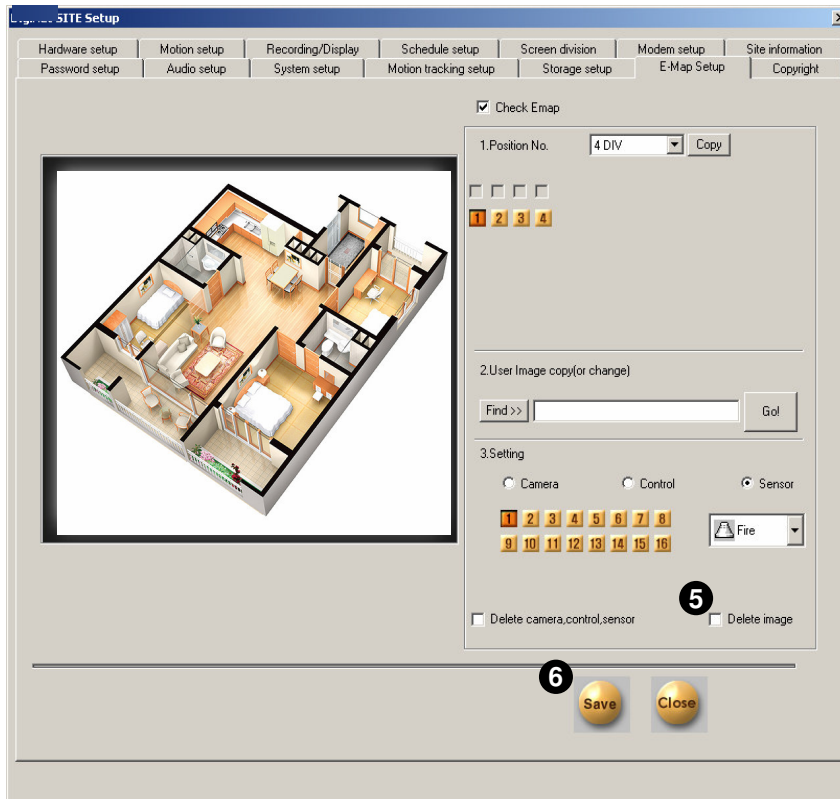
- When device type is **Camera**, you can choose CCD, Pinhole, or Speed Dome cameras in ⁷.

- When device type is **Control**, you can choose Light or Alarm controls in ⁷.

- When device type is **Sensor**, you can choose Fire, Laser, or Heat sensors in ⁷.

[Delete camera, control, sensor]

To delete a device from the E-map, enable **Delete camera, control, sensor** ⁸ and click on the device's icon on the E-Map. To delete all icons, disable **Check Emap** ¹ option.



5 [Delete image]

To delete currently displayed E-Map, enable **Delete image** and click **Save**.

6 [Save]

Click **Save** to save the E-Map setting.



7 [E-Map]

E-Map will be displayed on the selected channel (see 2 on page 52). Clicking on E-Map channel will zoom in the E-Map. Clicking on a camera icon will display the camera's image in full screen. Click anywhere to return to previous split screen mode.

If a control or a sensor is activated, you can see the corresponding icon on the E-map blinking 8

Chapter 2. Operation

Surveillance Mode

2.1 Surveillance Mode



Surveillance mode is the main screen where you can view cameras output as well as perform additional functions such as controlling PAN/TILT and ZOOM cameras, and viewing channels in different splitscreen mode.

1 [Selecting Split screen]

Select the split screen mode here. Available modes are 4-channel, 6-channel, 9-channel, 10-channel, 13-channel, 16-channel. 33-channel and 36-channel split modes are available only in 32-ch. models.

2 [Full screen mode]

Clicking this icon switches the view to full screen. Right clicking anywhere on the screen will bring you back to normal mode.



3 [Channel Rotation]

Displays all channels in sequence of 4 channels at a time (see 13 in page 23 for settings for this mode).

[Maximizing 1ch]

On any split screen mode, left clicking on a channel view brings it to single-channel mode. If the channel is connected with an audio input, you can listen to live audio then.

Click anywhere on the single-channel view to go back to split screen mode

Right-click on single-channel view to zoom-in and zoom-out (up to 7 zoom levels are available)

4 [Object Watch]

You can perform Object Watch function (See page 22 for Object Watch function). The button's color changes to yellow when object changes are detected



5 [Recording Mode]

Displays camera recording mode (see 1.14 page 26 for how to set recording mode):

Red "Rec" indicates continuous recording mode.

Blue "Rec" indicates recording by motion, sensor, alarm or any scheduled combination.

No mark indicates that the camera is not set to record video.

6 [Audio Recording Mode]

Displays audio recording status:

Red "AUDIO" indicates continuous recording mode.

Blue "AUDIO" indicates recording by motion, sensor, alarm or any scheduled combination.

No mark indicates that the camera is not set to record audio.

7 [PAN/TILT Status]

Displays PAN/TILT status.

Green "PAN/TILT" indicates that the channel is connected to PAN/TILT camera.

Red "Motion Tracking" at the top of the screen indicates that motion tracking function is enabled.

8 [Camera, Sensor, Control Status]

Displays activity status of installed Cameras, Sensors, and Controls. Activated devices are highlighted. A control can be manually turned on and off by clicking on the corresponding button

9 [Date & Time]

Displays current date and time.

10 [Search]

Go to Search Mode.

11 [Setup]

Access Setup Mode.

12 [Quit]

Turn of the DVR.

2.2 PAN/TILT mode



- 1 Left-clicking on a channel with PAN/TILT camera will switch to single-channel view and the PAN/TILT menu will appear on the right.

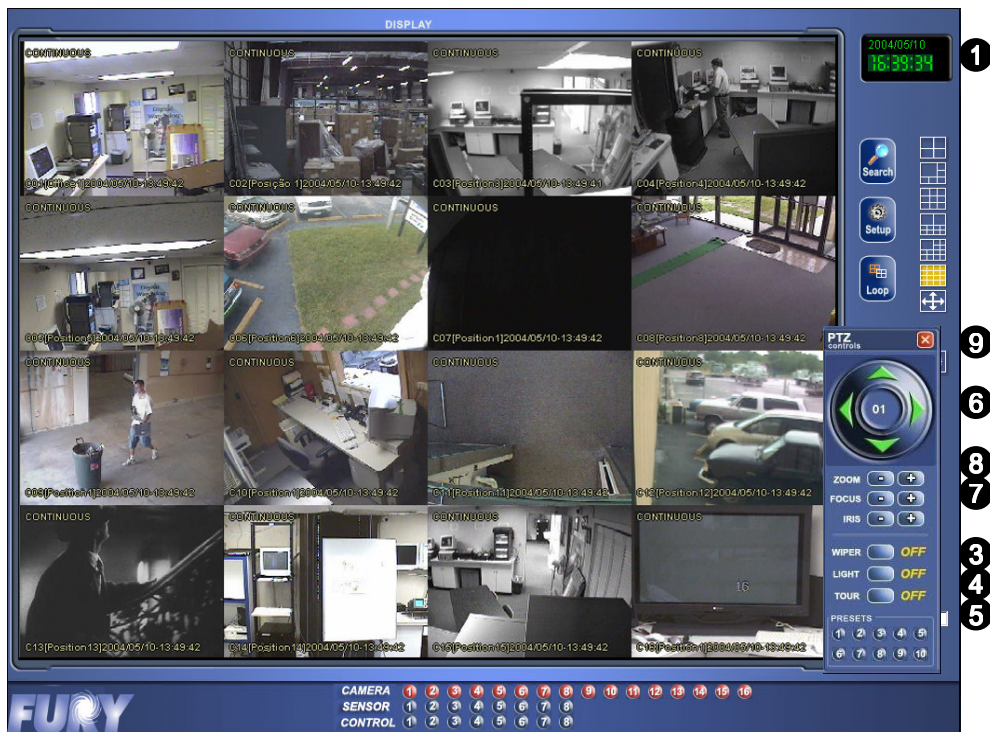


- 2 Click exit to return to surveillance mode.



PAN/TILT menu may vary depending on camera model.

2.3 PAN/TILT Control for P/T/Z Cameras



1 It indicates present date and time.

6 PAN/TILT control

Adjust the camera's direction to up, down, left, or right.

3 [WIPER]

Operate camera wiper.

7 [FOCUS]

Adjusts FOCUS

(not applicable to Auto Focus Lens)

4 [LIGHT]

Turn on or off camera light.

8 [ZOOM]

Adjust ZOOM in/out.

5 [TOUR]

Turn on or off AUTO PAN/TILT function of camera.

9 [EXIT]

Switch to surveillance mode from PAN/TILT mode.

Tip

- You need a RX receiver for each PAN/TILT camera.
- Some RX receivers need additional interface.

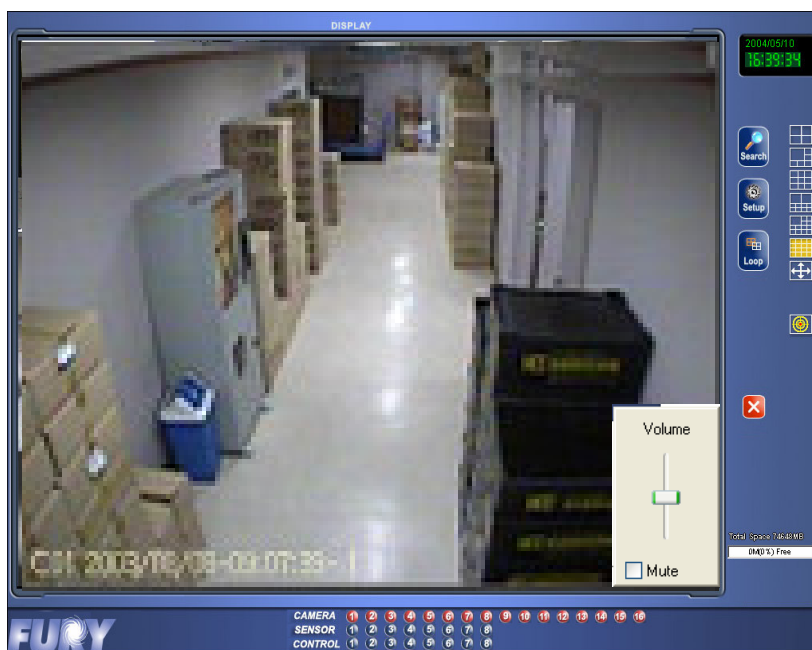
2.5 Live Audio



You can listen to live audio on one channel if the channel is connected with an audio input.

• Click on the channel connected with a microphone. A window with volume level bar appear.

• Adjust volume or select [Mute] if you do not wish to listen to live audio.



Chapter 2. Operation

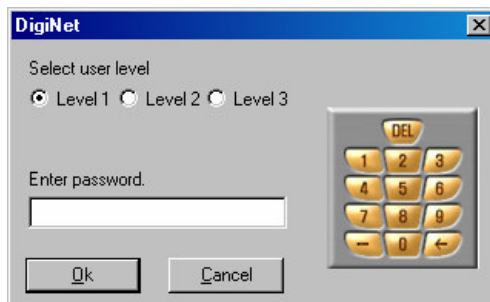
Search Mode

2.6 Entering into Search Mode

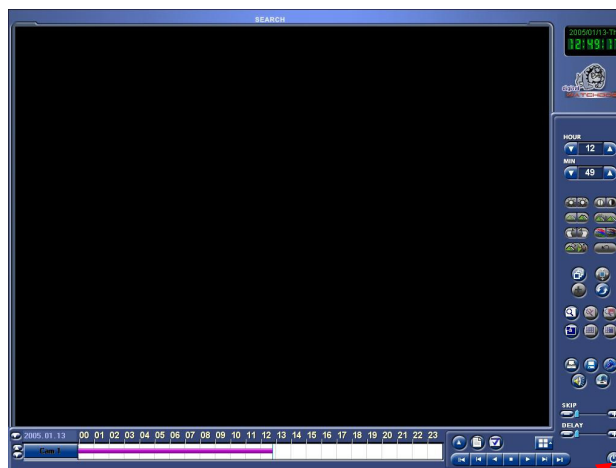
Search Mode



Click Search in Surveillance Mode to enter Search Mode.

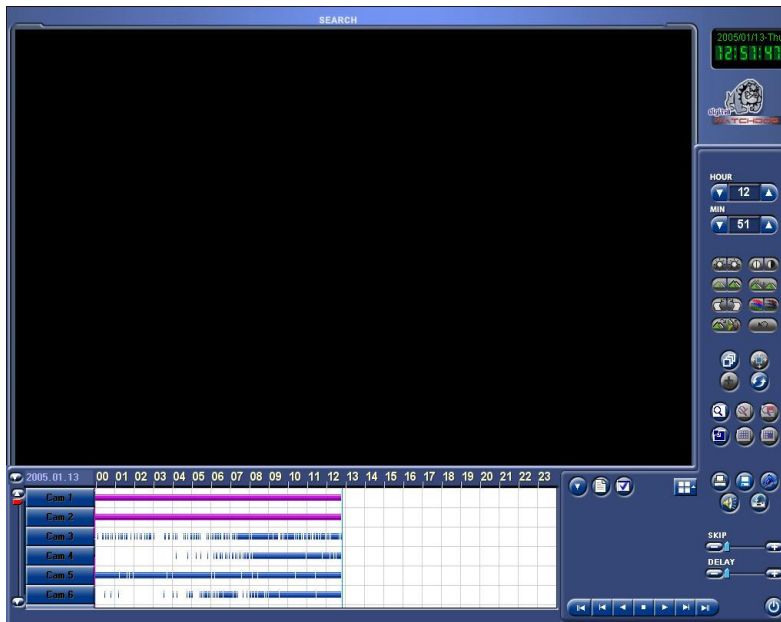



Enter password and click **Ok**. By default the password is empty (not set)




Press **1** to exit Search mode.

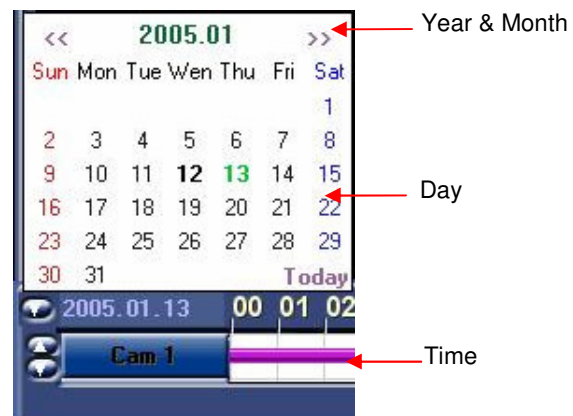
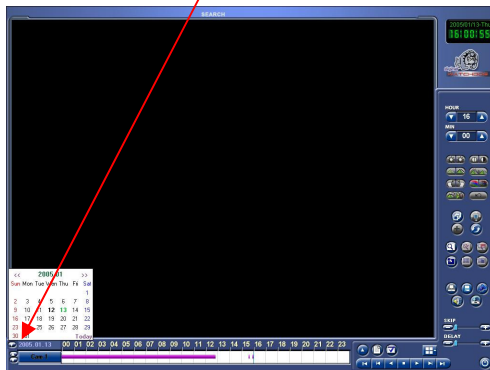
2.7 Search by Date & Time



Pressing  will close the multi camera panel.

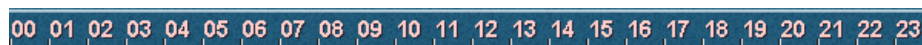
Pressing  will open the multi camera panel.

To search over the recorded data, select the date from **calendar** panel.

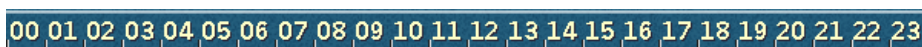


[Daylight Saving Time]

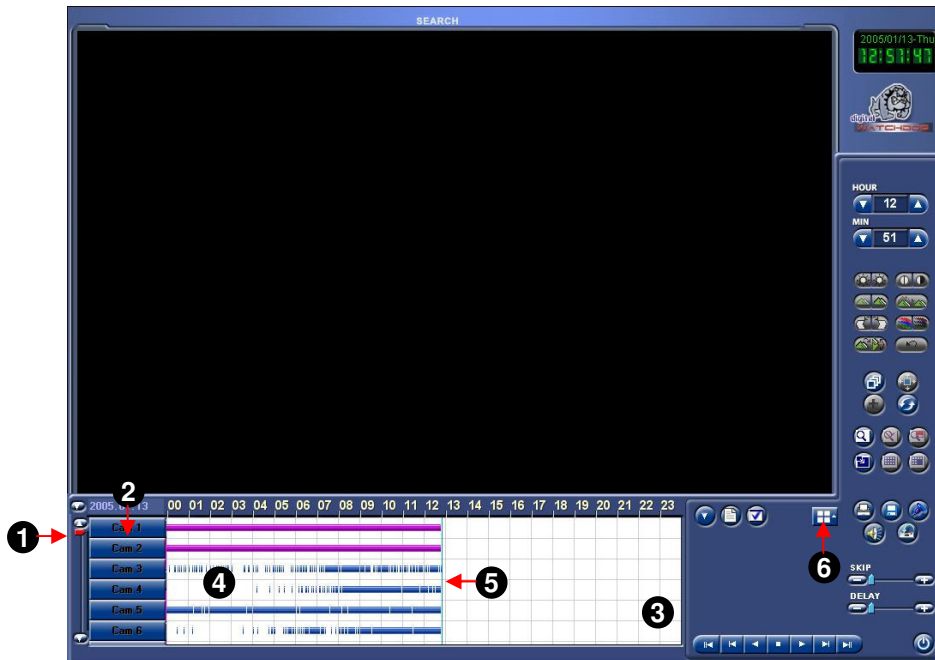
If Daylight Saving Time is active, the timeline's color is pink.



If Daylight Saving Time is inactive, the color is yellow.



2.8 Intelli Search



1 [Scroll bar]

Scroll to see the list of available cameras.

2 [Camera list]

Click on cameras you wish to select. Selected cameras are highlighted.



3 [Timeline]

Timeline displays daytime in hourly basis. Clicking anywhere on it will change time scale (available: 1-hour, 30-minutes and 10-minutes per division).

4 [Recording bars]

Each camera has a recording bar, showing when and how the camera has recorded.

- Pink bar indicates Continuous Recording.
- Blue bar indicates Motion Recording.
- Red bar indicates Sensor Recording.
- Green bar indicates Pre Alarm Recording.
- No bar indicates that nothing was recorded.

5 [Search line]

Search line indicates current position of the recording. The bar can be dragged left and right by mouse to search over the recorded data.

6 [Split screen setup]

Select split screen mode for playing back here.

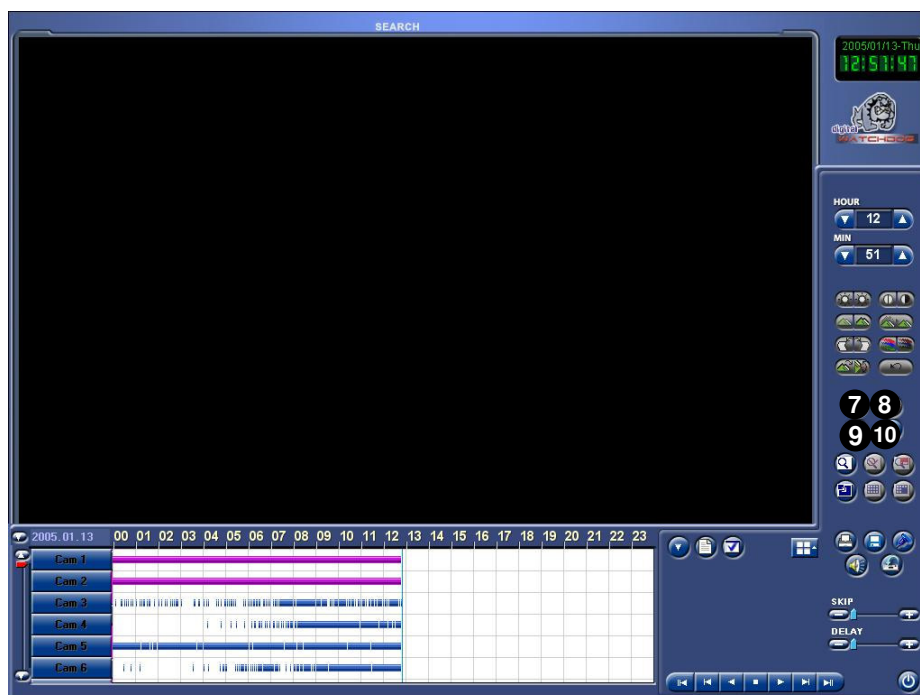
[Split screen mode]

	4 Channels - Cam 1 ~ 4
	4 Channels - Cam 5 ~ 8
	4 Channels - Cam 9 ~ 12
	4 Channels - Cam 13 ~ 16
	9 Channels
	16 Channels

[Split screen mode (Version Dependent)]

	Number of selected Camera	Auto splitscreen
	4 CH	
	6 CH	
	9 CH	
	10 CH	
	13 CH	
	16 CH	
	1	1 splitscreen (full)
	1~4	4 splitscreen
	1~6	6 splitscreen
	1~9	9 splitscreen
	1~10	10 splitscreen
	1~13	13 splitscreen
	1~16	16 splitscreen

The DVR will display nothing if there is no recording at the selected time and camera.



7 [Panorama]



Panorama displays consecutive frames from one selected camera in 4-window split screen mode.

8 [Zoom]



Clicking Zoom will zoom the selected channel. This function only works for channels with resolution less than 640 X 480.

9 [Digital Zoom]

You can choose mouse mode here. Mouse can be used to zoom in, out, or move the screen image. To use Digital Zoom, you must have one channel selected. There are 13 zoom levels.



[Zoom In]

When you select **[Zoom In]**, the cursor will change into a plus sign. You can zoom in by right clicking on a frame.



[Zoom Out]

When you select **[Zoom Out]**, the cursor will change into a minus sign. You can zoom out by right clicking on a frame.



[Move]

When you select **[Move]**, the cursor will change into a hand. You can move the screen by holding the right mouse button and dragging on a frame.

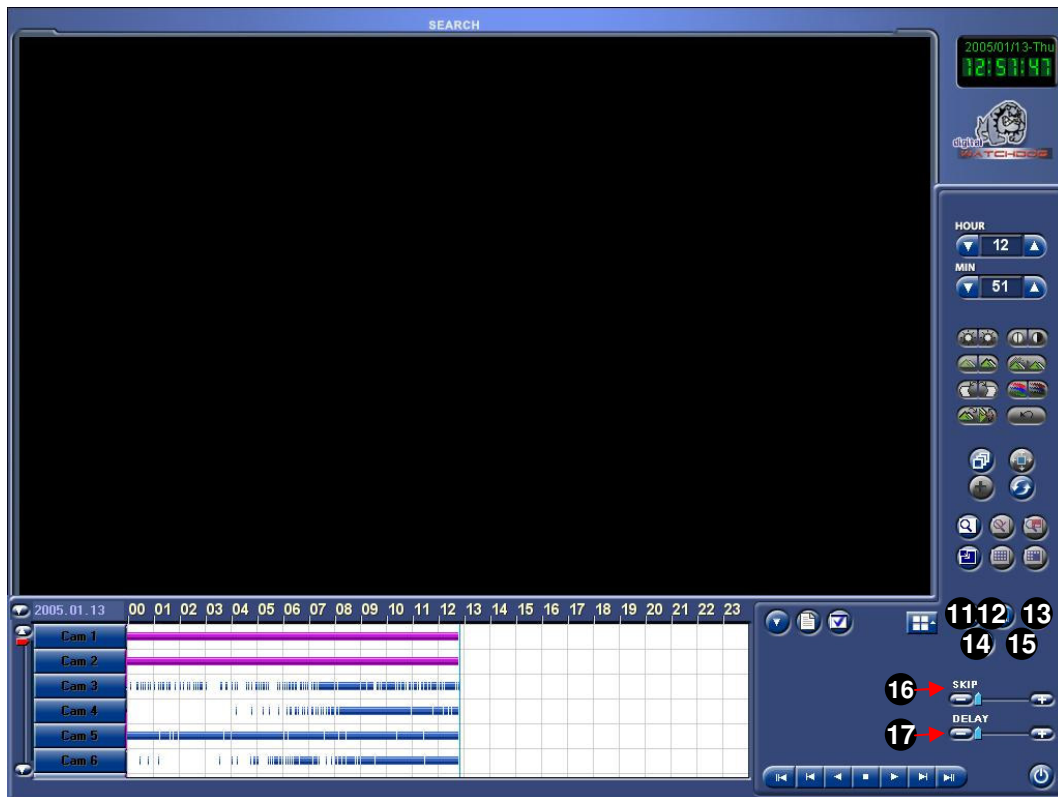
10 [Update Graph]



Click here to update the recording bars. It is useful in case new data are recorded while you are searching.



• Zooming in and out is only available to one channel at a time, and therefore zooming multiple channels is not possible. In splitscreen mode, select a channel you wish to zoom.



11 [Print]



Print the selected frame. It is recommended that you print after adjusting size and brightness.

You can only print one frame from one channel at a time.

12 [Data Backup]



Save a backup copy of recorded data (see page 90).

13 [Bookmark]



Bookmark the location of selected frame. Bookmarking allows you to jump to the saved date & time (see page 89).

14 [Audio Play]



Playback recorded sound. You can control volume using 'Volume Setup' (see page 86).

15 [Recording while searching]



Playback performance in Search mode will increase when the DVR is not recording. To disable or enable recording while searching, click **[Recording while searching]**.

16 [Skip]



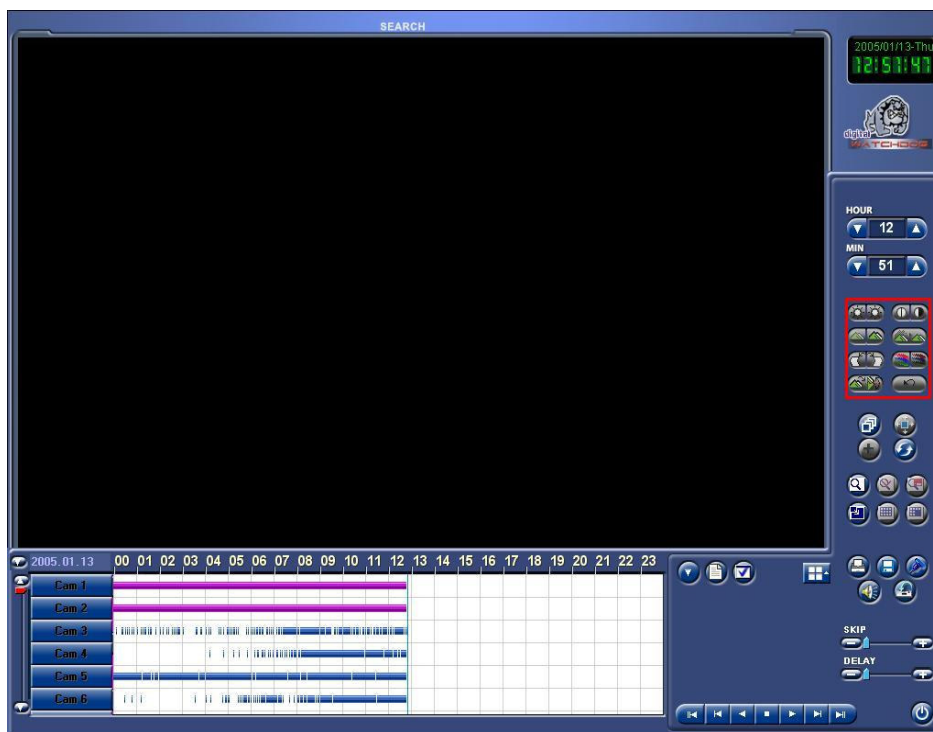
Skips number of frames assigned in **Skip bar** when playing back. This increases play rate and may be useful when searching over a long period of time.

17 [Delay]



Displays each frame for longer periods of time. This function may be useful when examining a short recording carefully.

2.9 Image control



[Brightness]

Adjust brightness of the displayed frame.



[Contrast]

Adjust contrast of the displayed frame.



[Blur & Focus]

Blur or focus the displayed frame. This function may be useful if the frame is too blurred or too sharp.



[Noise Reduction]

Reduce noise in the displayed frame. This function may be useful if the frame is too distorted.



[Transform]

Flatten and rotate the displayed frame for better view if the camera was recording in tilted angle.



[Gamma correction]

Adjust balance between brightness and contrast of the displayed frame. This function may be useful if the color of the frame looks abnormal.



[Rotation]

Rotate the displayed frame 90°, 180°, 270°, flip horizontally, and/or vertically.



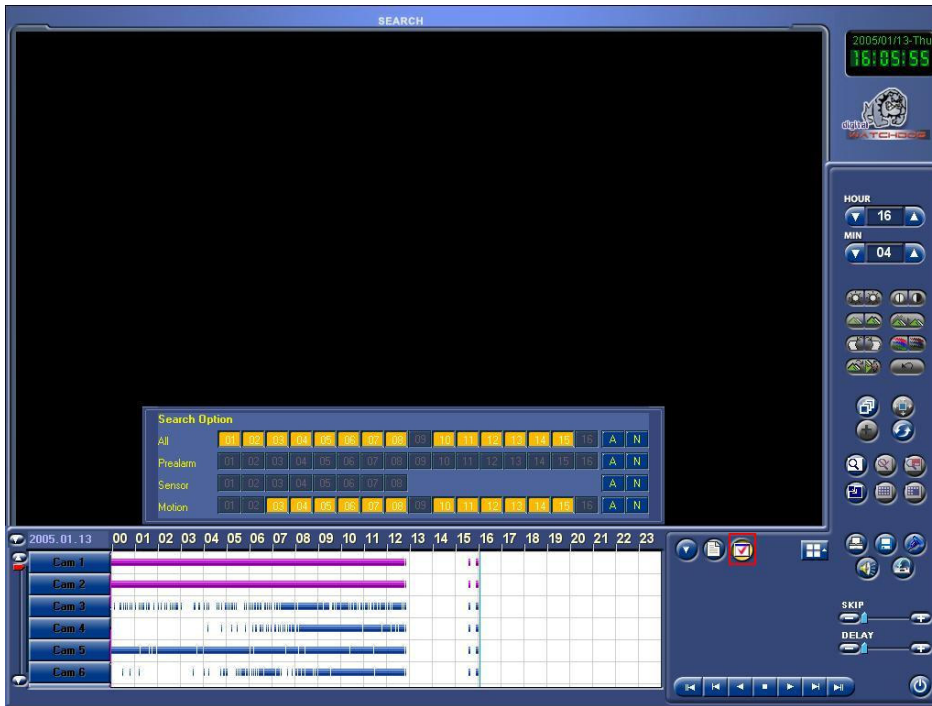
[Restore Default]

Restore the displayed frame's original parameters.




All the image-adjusting functions are only available to one frame from one channel at a time. When in splitscreen mode, click on a channel view you wish to adjust.

2.10 Search Options



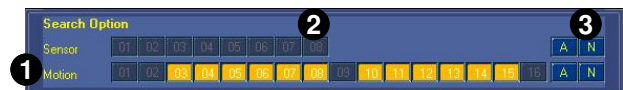
[Search Options]

Click on  to open or close Search Options window.



Search options vary by search mode. Two search modes are Intelli search mode (see 2.8 page 77) and index search mode (see 2.11 page 82).



[Search option in Intelli Search mode]



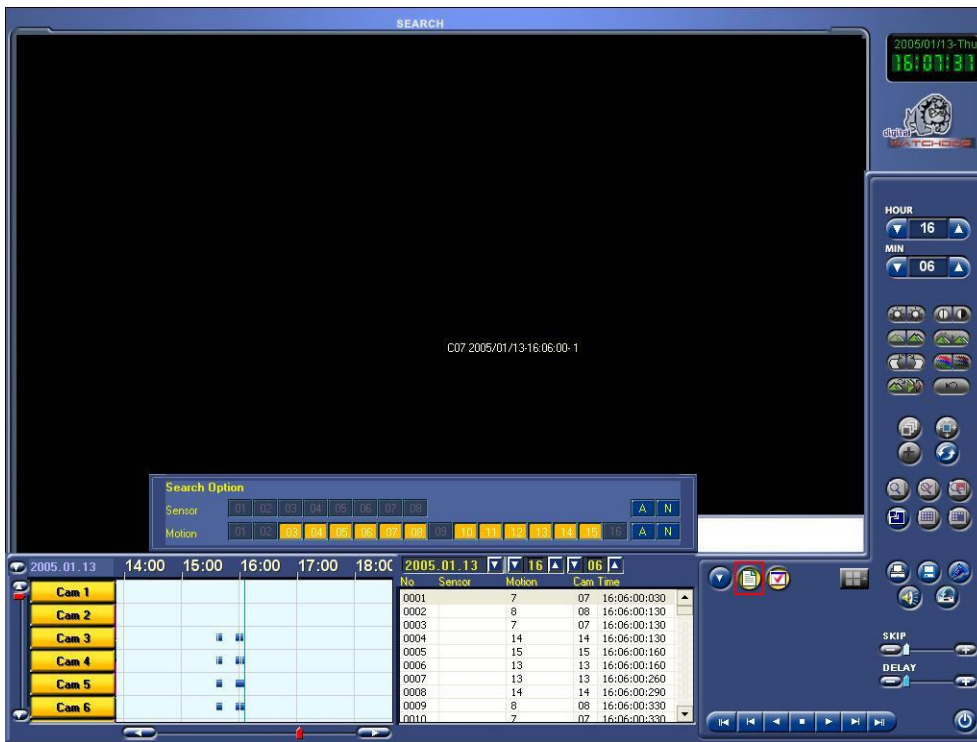
[Search option in Index search mode]

- 1 Shows recording types you can search. When recording type for a camera changes, color of the corresponding recording bar will change accordingly (see page 77 for what colors mean)
Four recording types are available for Intelli search and two recording types are available for Index search.
- 2 Displays available cameras. Only recording bars for the selected cameras will be displayed. To select or deselect a camera, click on the corresponding button.
- 3 To select all cameras of one category, click . To deselect all cameras, click .



Index Search will not display any data recorded in Fury System versions 4.030 and below, and will only become available 24 hours after version 4.030 or higher is installed.

2.11 Index Search




[Index Search]

Index Search displays a list of recording events sorted by time.

1 2005.01.13 16 06				
No	Sensor	Motion	Cam	Time
2 0001	3	4 7	5	6 16:06:00:030
0002		8	08	16:06:00:130
0003		7	07	16:06:00:130
0004		14	14	16:06:00:130
0005		15	15	16:06:00:160
0006		13	13	16:06:00:160
0007		13	13	16:06:00:260
0008		14	14	16:06:00:290
0009		8	08	16:06:00:330
0010		7	07	16:06:00:330

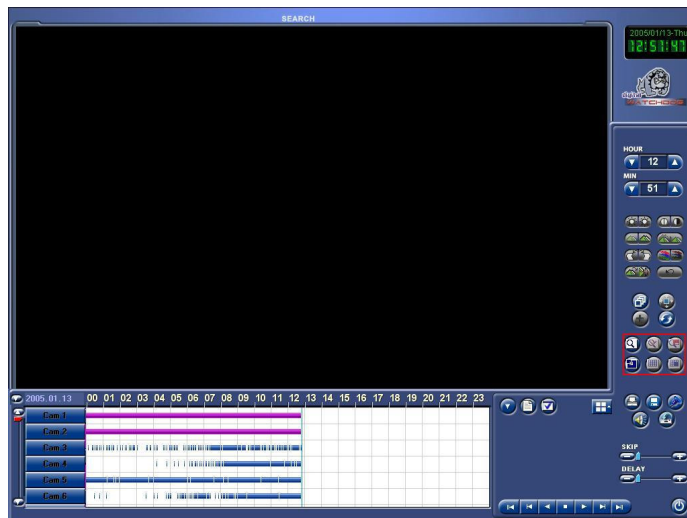
- 1 Indicates the starting time for index search. The search will be conducted over 1-minute interval from the starting time.
- 2 Number of recording events.
- 3 Displays sensor that triggered the recording event (if the event is of sensor recording type).
- 4 Displays camera that triggered the recording event (if the event is of motion recording type)
- 5 Camera that recorded.
- 6 Shows the time when the recording event occurred.



When in Index Search, Search Options window will appear automatically. You can close or open it by clicking on . For search options details see 2.10 on page 69.

2.12 Object search

This function is used to find out when and which objects appear or disappear in a selected area.



[Object Search]



Clicking this button you can go to the Object Search Mode.



Clicking this button you can start object search.



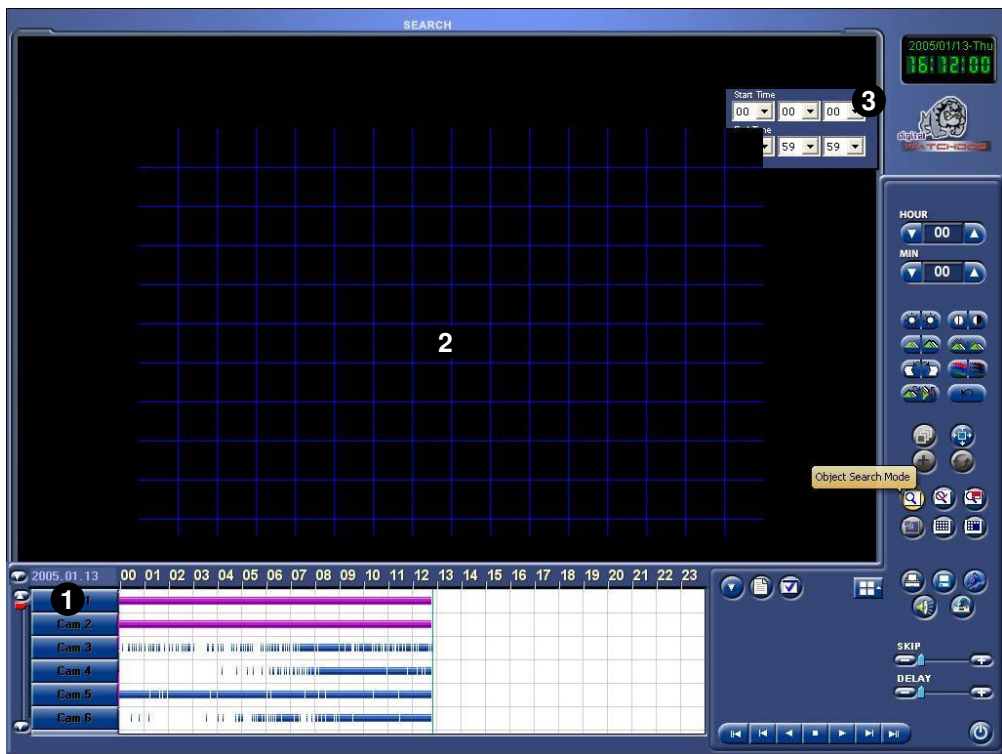
Clicking this button you can see the result of the object search.



Clicking this button you can add or remove the grid from view.



Clicking this button you can add or remove the search area from view.

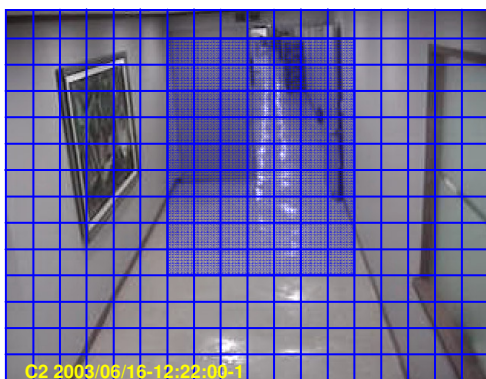


1 [Select Camera]

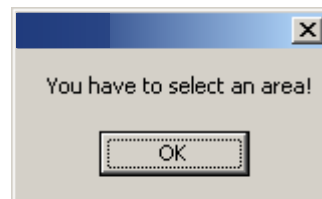
Select the camera to search. The object search is possible only for one channel at a time.

2 [Set Area]

Set the area for object search. Left clicking selects a cell on the grid and right clicking deselect it.

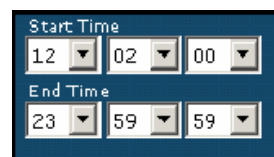


If you did not set the search area, the following message appears requesting you to set the search area.

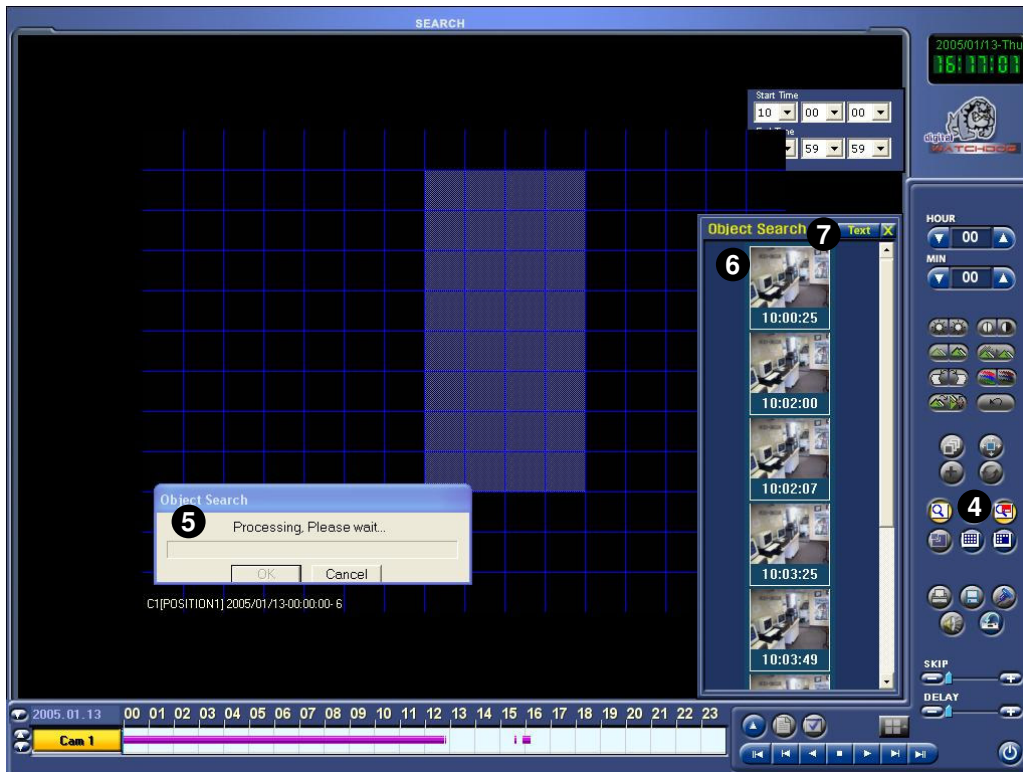


3 [Set Time]


Using the scroll bar or keyboard, enter the starting time and the ending time of the search period.



You can also use the search bar on timeline to set the starting time.



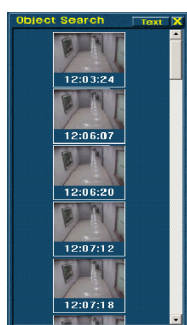
4 [Start Object Search]

Clicking  button, you can start to search. A progress status **5** is displayed while the data are extracted. Click the Cancel button on the progress status window to stop searching. You can still view the images up to the point where the search was stopped.

6 [Object Search Result]

After images with object changes are detected, the search results will be displayed on Object Search window. Click on the "Text" button **7** to change the way the search results are shown: text-only or text-and-image.

Select one result from the Object Search Result window, and click on the Play button to start playing back from the selected time.



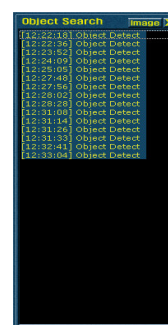
[Image Mode Display]

Text

Click on the Text button to view the results in text-only mode.

Image

Click on the Image button to view the results in text-and-image mode.

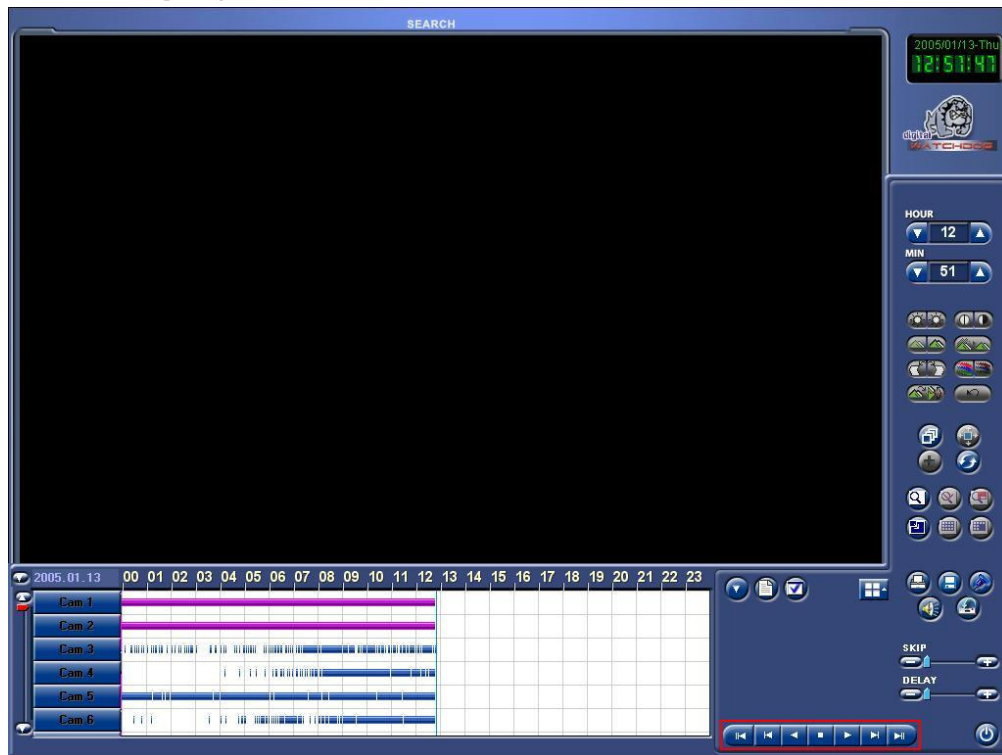


[Text Mode Display]








[Tips]

If the object disappears and there is no motion for more than 3 seconds after the object disappears, it will be detected by the object search. In the same way, if the object appears and there is no motion for more than 3 seconds, it will be detected by the object search as well.

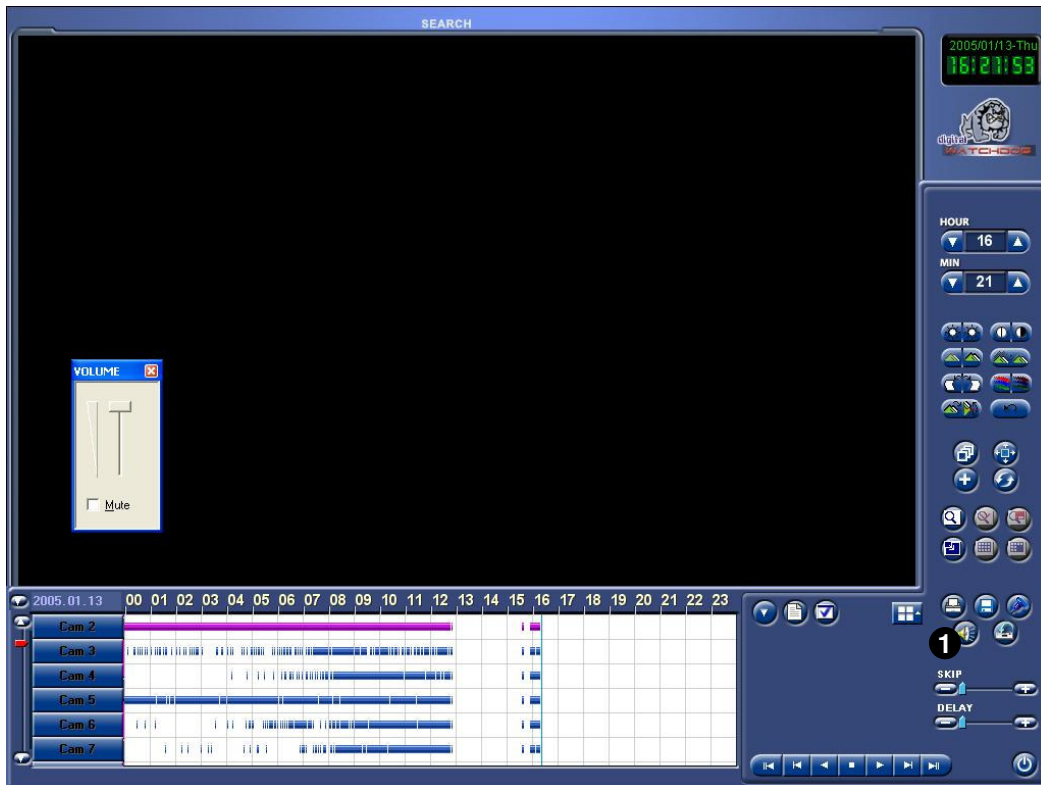
2.13 Video playback



Playback button

-  Move to the first recorded data of the selected date
-  Play one frame backward
-  Reverse playback
-  Stop
-  Forward playback
-  Play one frame forward
-  Move to the last recorded data of the selected date


2.14 Audio Playback



1 [Audio playback]

If you select any single channel which has saved audio data, you can replay audio with the recorded image.

(You can not replay audio data with the multi-channel search mode.)

Click  and the "VOLUME" window appears as shown left.

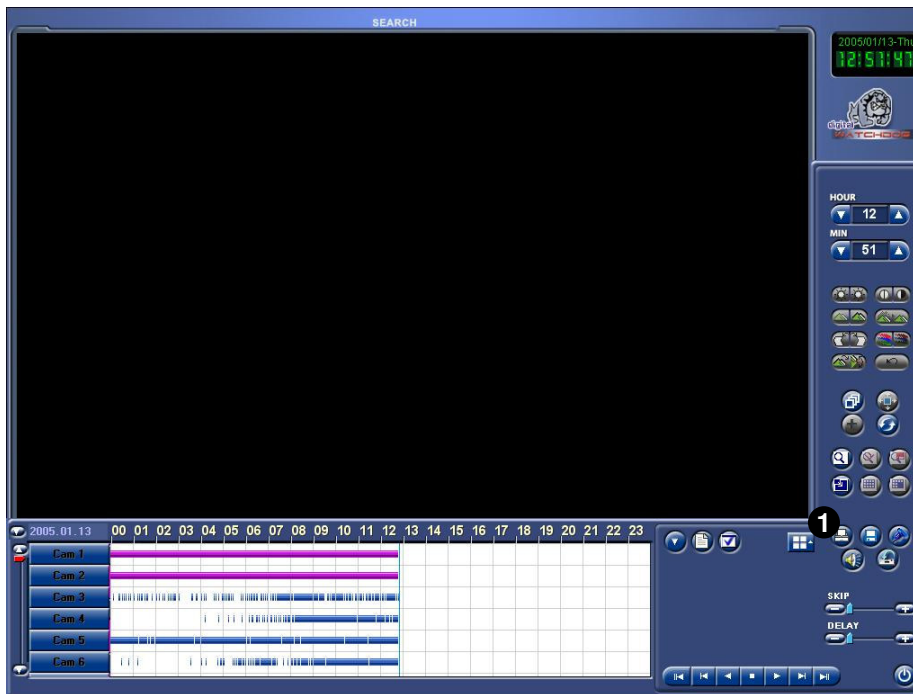
If you do not wish to listen to the saved audio, check ☒ Mute.

You can adjust volume by scrolling up or down with the mouse.


[Tips]

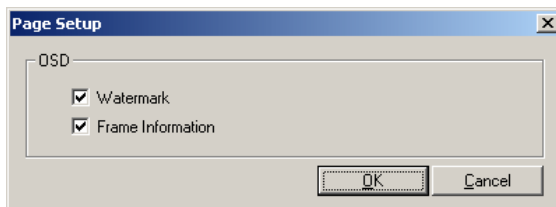
- Audio synchronization takes roughly 1 to 3 seconds to initialize and may result in some video loss. This procedure is normal.
- Audio is supported only for forward playback. Audio play is not supported for other search - backward playback, frame by frame search, etc.
- When audio is playing, Skip and Delay functions will not work.
- For audio configuration, refer to Appendix D.

2.15 Printing

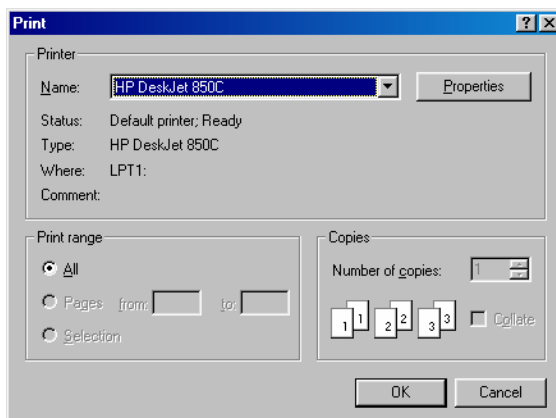


1 [Print]

To print, select a channel and click . It is recommended that you print after adjusting frame size and brightness. You can print only one channel image at a time.

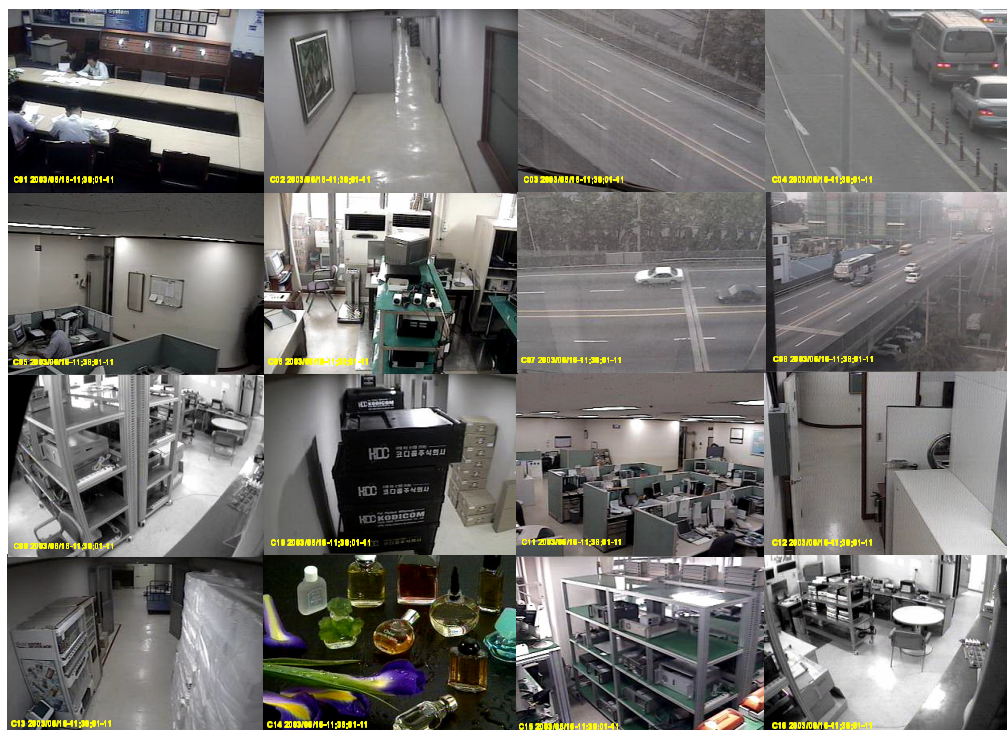
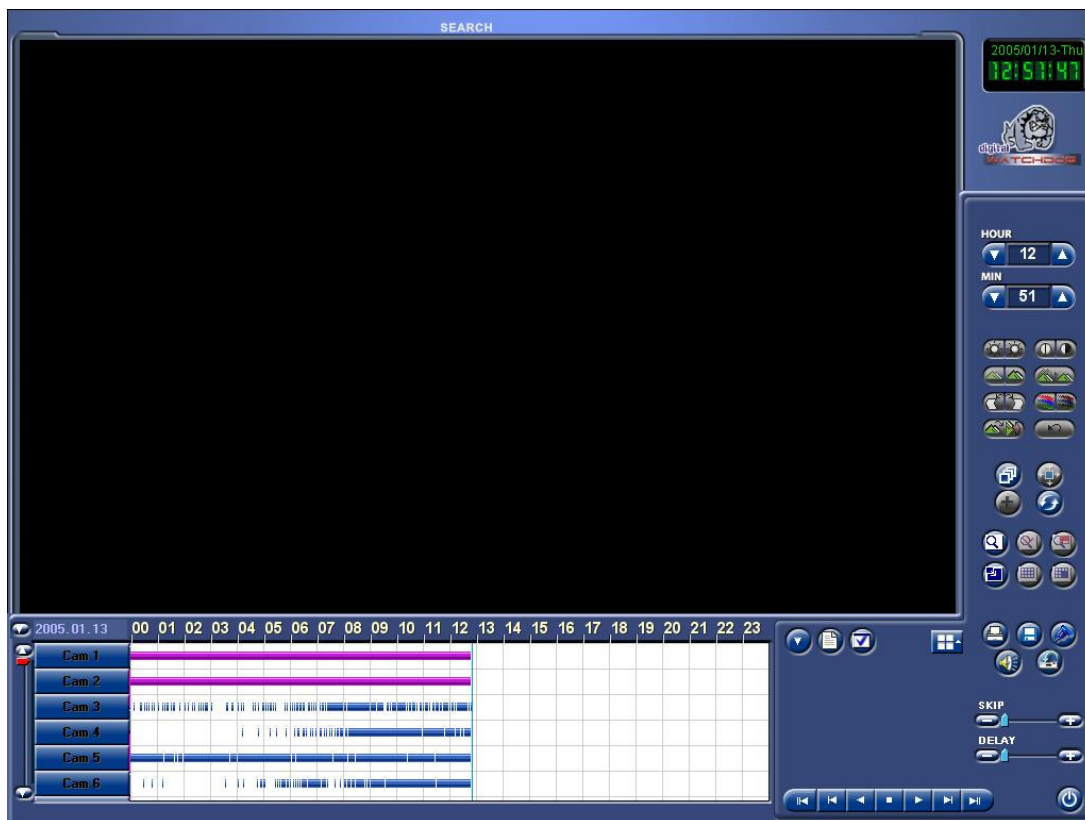


If you wish to have Watermark or Frame information printed on the image, check the appropriate option box.

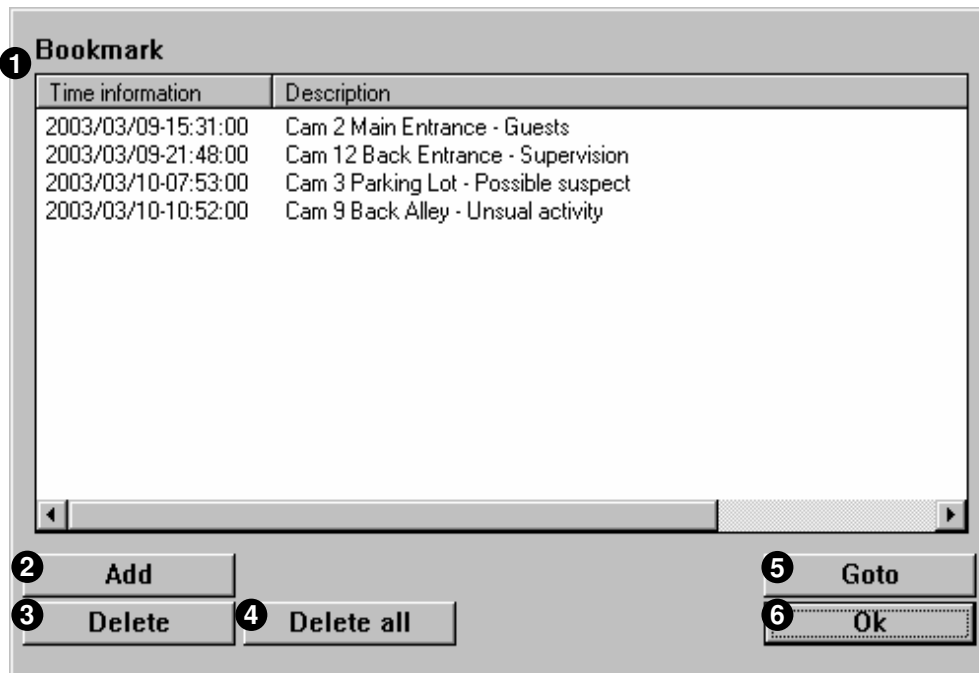


Click on OK to start print.

2.16 Full-screen mode



2.17 Bookmark



1 [Bookmark List]

[Time information]

List of the bookmarks, sorted by date and time.

[Description]

Displays description of a bookmark

2 [Add]

Add the currently displayed frame to the bookmark list

3 [Delete]

Delete selected bookmark(s).

4 [Delete all]

Delete all bookmarks.

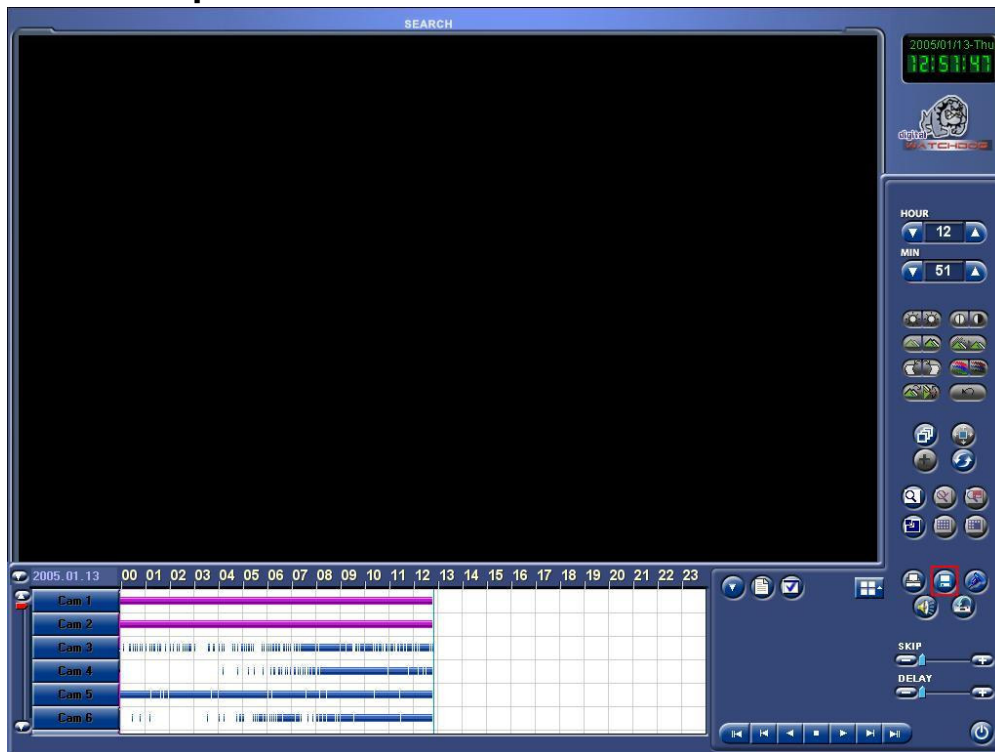
5 [Goto]

Jump to the selected bookmark.

6 [Ok]

Close Bookmark window and return to Search mode.

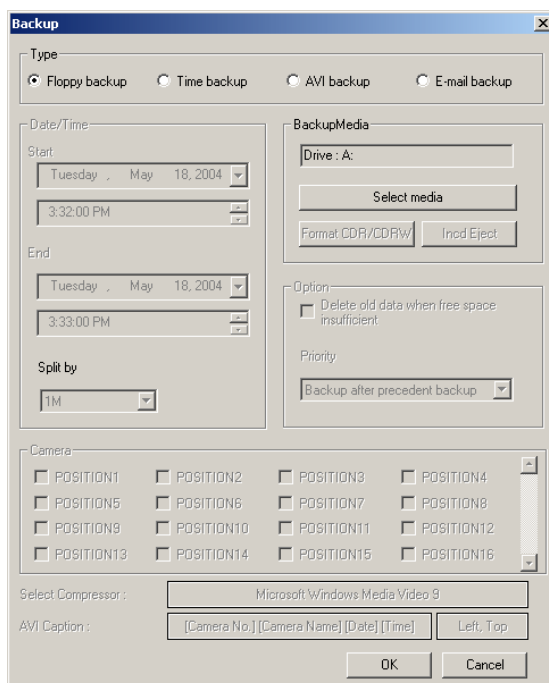
2.18 Backup



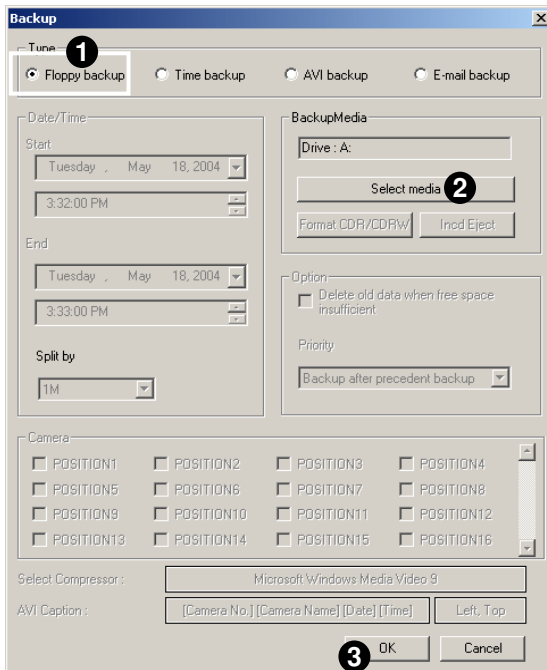
[Backup]



Click to backup the recorded data. Backup window shown below will appear.




2.18.1 Floppy Backup



[Floppy Backup]

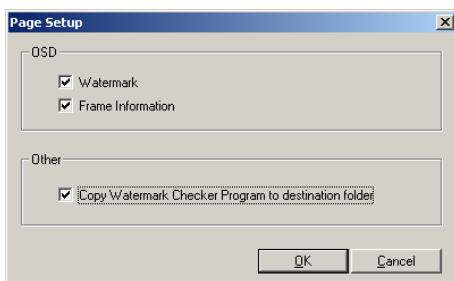
This function used to backup a frame (image), not video data. It is a must to have a frame zoomed:

-When in search mode, select a frame to backup by clicking on corresponding channel view

-Click on  and choose “Floppy backup” **1** option

-Click on **2** to select a medium to backup to. It can be floppy disk, HDD, CD-RW, USB-flash or network driver

-Click [OK] **3**. The “**Watermark Checker Copy**” box will appear as follows:



If you wish to have Watermark and Frame information on the backup image, check the option box **[Watermark]** and **[Frame information]**.

If you wish to install Watermark Check Program, check **[Copy Watermark Checker Program to destination folder]**.

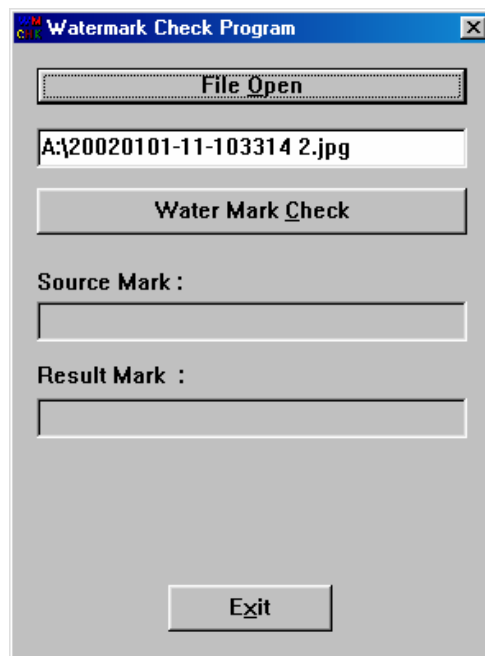
You may save as many frames as the disk allows but you do not need to install Watermark Checker Program more than once.

[Tips]

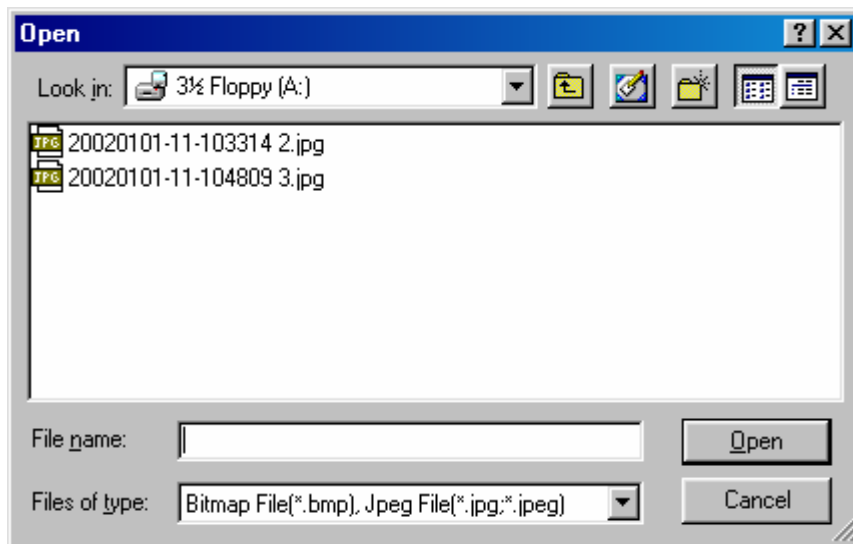
BMP or JPEG images can be modified by anyone, and modified images can look just as realistic as original images. Watermark feature helps to distinguish between the original images and modified images. When the system saves an image onto its hard disk drive, it will encode each image with Watermark (provided you have Watermark feature enabled in System Setting) leaving a ‘mark’ on each image. When an image is modified, the ‘mark’ will change, therefore allowing the System to differentiate between modified images and original images.

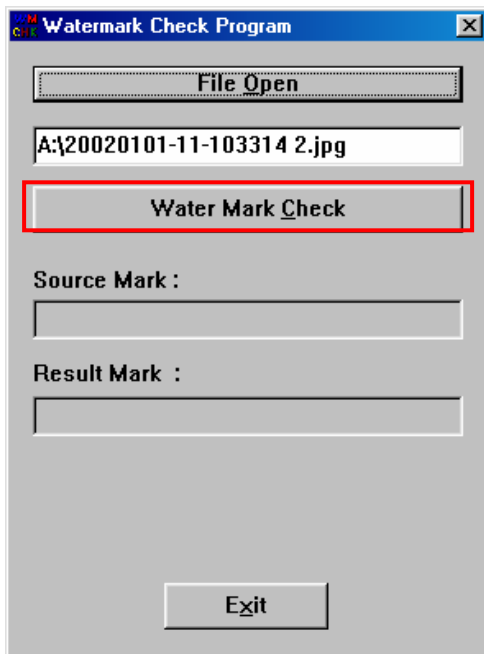
[Watermark Checker]

To run Watermark Check program, double-click 'WMChecker.exe' on the backup medium. The following window will appear.



To check an image, click [File Open] and open the image you wish to check.



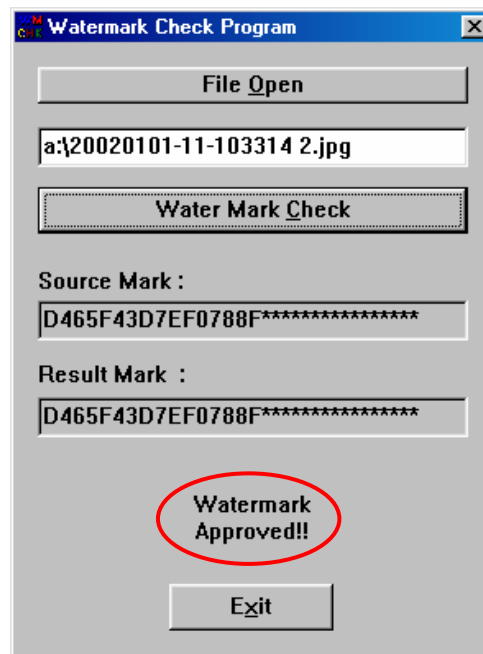


Click [Water Mark Check] to verify the image.

After verification is completed, the results will be displayed as shown below

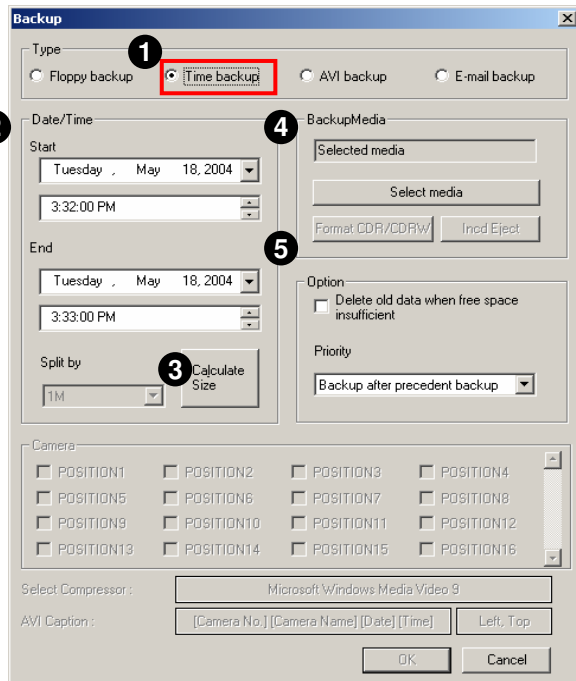


Corrupt (modified) image



Approved (authentic) image.

2.18.2 Time backup



1 [Time backup]

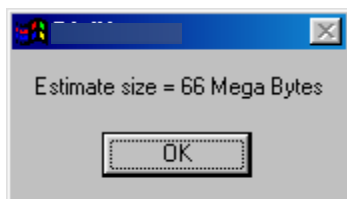
Select this backup mode when you need to backup video data in Fury format.

2 [Date/Time]

Select the start and the end time of backup data.
Date and time has to be set before your current time. In other words, you can't backup video data "in future".

3 [Calculate size]

If you want to check data size for the selected backup press '**Calculate Size**' button.



This function is used to backup video data in Fury video format. Fury's Site program is needed to playback them.

4 [Backup Media]

Select a medium to backup to.

You can select HDD, CD-RW, Portable drive, Network Drive, Remote IP Address.

5 [Format CDR/CDRW]

This option is used when you select a CD as a backup medium.

If a CD has not been formatted, you can format a CD using Direct CD program or InCD program. To do so, press **[Format CDR/CDRW]** button.

[Tips]

Time backup requires a large amount of free space, as one minute backup usually requires 66 megabytes of free space.

To format a CD, Direct CD program or InCD program have to be installed beforehand.
(When formatting a CD using InCD program, only CD-RW media is supported.)

The screenshot shows the 'Backup' dialog box with the following elements and annotations:

- Type:** Radio buttons for 'Floppy backup', 'Time backup' (annotated with a red box and a circled '6'), 'AVI backup', and 'E-mail backup'.
- Date/Time:** Fields for 'Start' (Tuesday, May 18, 2004, 3:32:00 PM) and 'End' (Tuesday, May 18, 2004, 3:33:00 PM).
- BackupMedia:** A section with a 'Selected media' field, a 'Select media' button, and buttons for 'Format CDR/CDRW' and 'Inod Eject'.
- Option:** A checkbox labeled 'Delete old data when free space insufficient' (annotated with a circled '7').
- Priority:** A dropdown menu set to 'Backup after precedent backup' (annotated with a circled '7').
- Camera:** A grid of checkboxes for 'POSITION1' through 'POSITION16'.
- Select Compressor:** A dropdown menu set to 'Microsoft Windows Media Video 9'.
- AVI Caption:** A field with a template '[Camera No.] [Camera Name] [Date] [Time]' and a 'Left, Top' button.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom (annotated with a circled '8').

6 [Option]

[Delete old data when free space insufficient]

This option will delete any old data on the selected medium when there is not enough storage space for backup.

7 [Priority]

Set backup's priority when other backups are scheduled. Setting the option to **Backup after precedent backup** will place the backup in queue. **Backup after current backup** will ignore the queue.

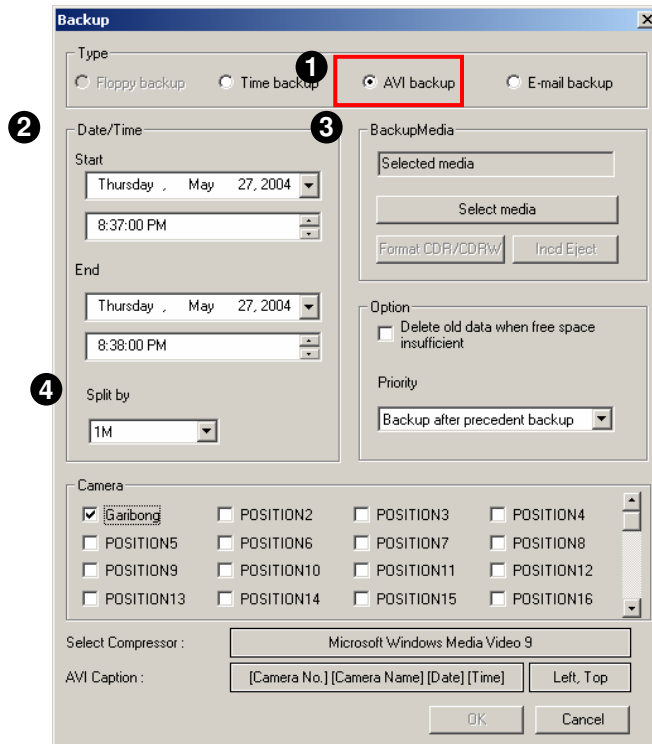
8 [OK]

Press [OK] to start backing up.

[Tips]

Time backup will backup video data from all cameras. It is not possible to select cameras for this backup mode.

2.18.3 AVI backup



This function is used to backup video data in one of the standard MS Windows Media Player formats.

1 [AVI backup]

Select this backup mode when you need to backup video data in MS Windows AVI format. Audio data can be backed up alongside with video data.

2 [Date/Time]

Select the start and the end time of backup data. Date and time has to be set before your current time. In other words, you can't backup data "in future"

3 [Backup media]

Select a medium to backup to.

You can select HDD, CD-RW, portable drive, network drive, remote IP address.

[Format CDR/CDRW]

This option is used when you select a CD as a backup medium.

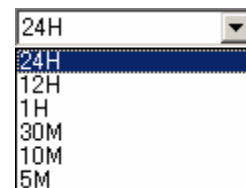
If a CD has not been formatted, you can format a CD using Direct CD program or InCD program. To do so, press **[Format CDR/CDRW]** button.

[Tips]

To format a CD, Direct CD program or InCD program have to be installed beforehand. (When formatting a CD using InCD program, only CD-RW media is supported.)

4 [Split by]

When creating a backup in AVI format, you can split the resulted file by time or size.

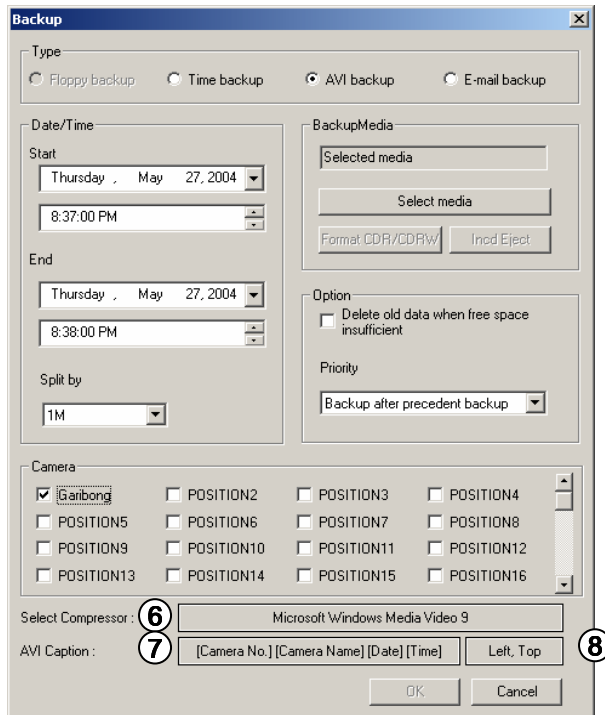


The screenshot shows the 'Backup' dialog box with the 'AVI backup' option selected. The 'Date/Time' section shows a start date of Thursday, May 27, 2004, at 8:37:00 PM and an end date of Thursday, May 27, 2004, at 8:38:00 PM. The 'Split by' is set to 1M. The 'BackupMedia' section has a 'Selected media' field and buttons for 'Select media', 'Format CDR/CDRW', and 'Inod Eject'. The 'Option' section has a checkbox for 'Delete old data when free space insufficient' and a 'Priority' dropdown set to 'Backup after precedent backup'. The 'Camera' section, highlighted with a circled number 5, contains a list of cameras with checkboxes: Garibong (checked), POSITION2, POSITION3, POSITION4, POSITION5, POSITION6, POSITION7, POSITION8, POSITION9, POSITION10, POSITION11, POSITION12, POSITION13, POSITION14, POSITION15, and POSITION16. The 'Select Compressor' is set to 'Microsoft Windows Media Video 9'. The 'AVI Caption' field shows '[Camera No.] [Camera Name] [Date] [Time]' and a 'Left, Top' button. 'OK' and 'Cancel' buttons are at the bottom.

5 [Camera]

Select the camera number to create the AVI backup.

For AVI backup, it is not necessarily to select all cameras like in Time Backup. Selection one or few cameras to backup from is possible.



⑥ [Select Compressor]

Select the codec for the AVI backup.

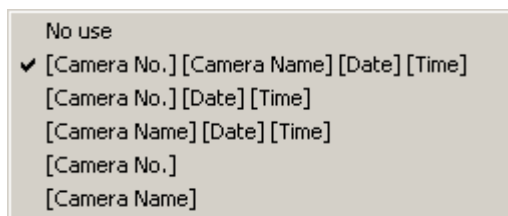
[Tip]

You can not backup audio data that have been recorded through the audio board.

⑦ [AVI Caption]

When playing the backup AVI video, you can select caption information to display.

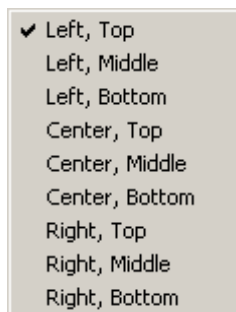
You can select 6 different types of caption information.



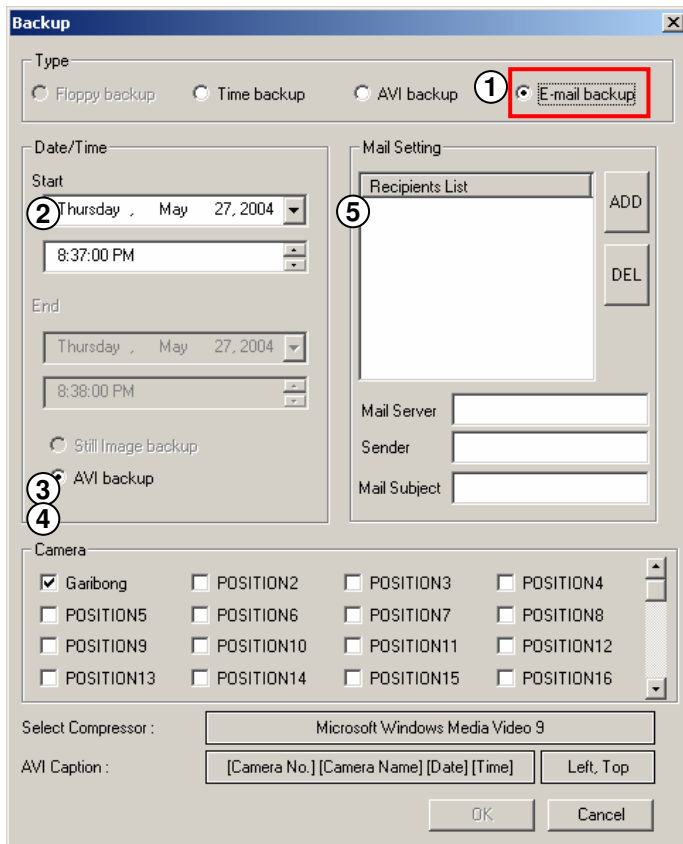
⑧ [Select Position]

This option allows you to select the position of the caption information for the AVI backup.

You can select from 9 different option.



2.18.4 E-Mail backup



The e-mail backup function is used to send the backup to designated e-mail account(s). E-Mail backup can backup 1 minute video data in MPEG format or a single frame (image) in JPEG format.

① [E-mail Backup]

Select this backup mode when you need to send backup video data by e-mail

② [Date/Time]

Select the starting time to backup the data.
The starting time must be earlier than the current time. In other words, you can't backup data "in future"

③ [Still Image Backup]

Backup the current displayed frame in JPEG format.
This option is available only when a single frame is displayed.

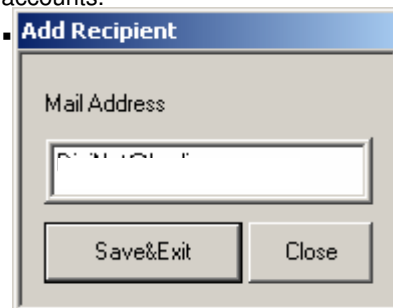
④ [AVI Backup]

Select this option to backup one-minute video data (starting time is specified in ②) in AVI format.

⑤ [Mail Setting]

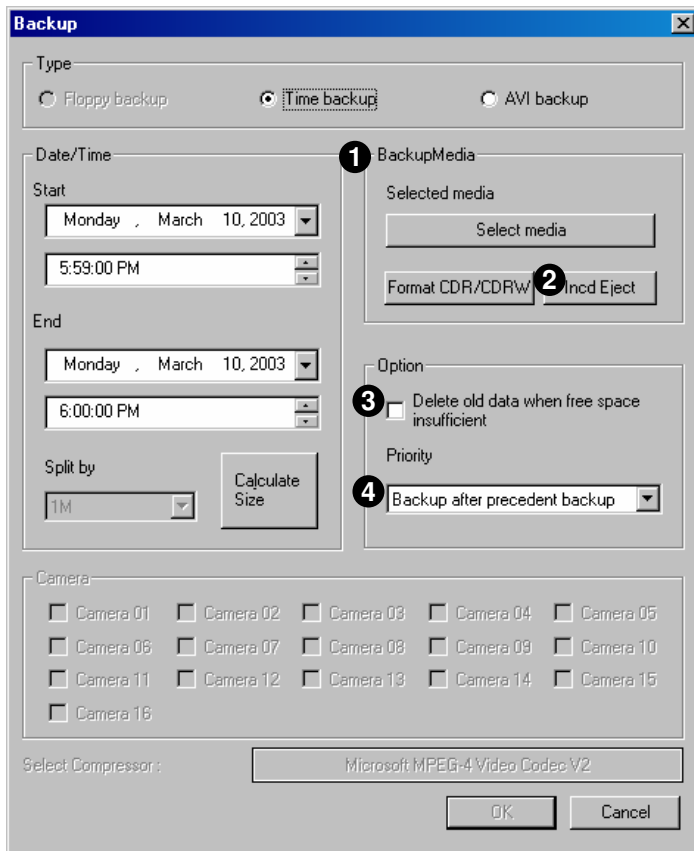
- [Recipients List] shows the list of registered e-mail accounts.

- **Add Recipient** adds the receiver list.



- **Delete** is to delete an e-mail account from the list.
- In the **[Mail Server]** field, enter the outgoing mail server (SMTP) address.
- In the **[Sender]** field, enter the sender's e-mail account.
- In the **[Mail Subject]** field, enter the mail subject.

2.18.5 Common backup options



1 [Backup Media]

Click **[Select media]** to change media used for backup. The DVR can use following media:

- Hard Disk Drive
- CD-ROM
- Portable Drive
- Network Drive
- Remote IP Address

4 [Priority]

[Format CDR/CD-RW]

When choosing CD-ROM as media, you have the option of formatting CDs. Formatting CD-R will delete any data stored in CD, making it reusable. Formatting CD-RW will enable Direct CD feature, which allows you to move, delete, and copy data onto CD in a way similar to a floppy disk.

2 [InCD Eject]

InCD is a program developed by Ahead Software which formats CD-R and CD-RW. Clicking [InCD Eject] will eject CD-ROM drive.



In order to format CDs, you will need to purchase Easy CD program, and is not included in default package. Contact the local distributor to place an order.
You may also purchase a similar product called Nero.

3 [Options]

[Delete old data when free space is insufficient]

If there's not enough space to create a backup, the system will automatically delete old data in the backup medium in order to create enough free space.

Appendices

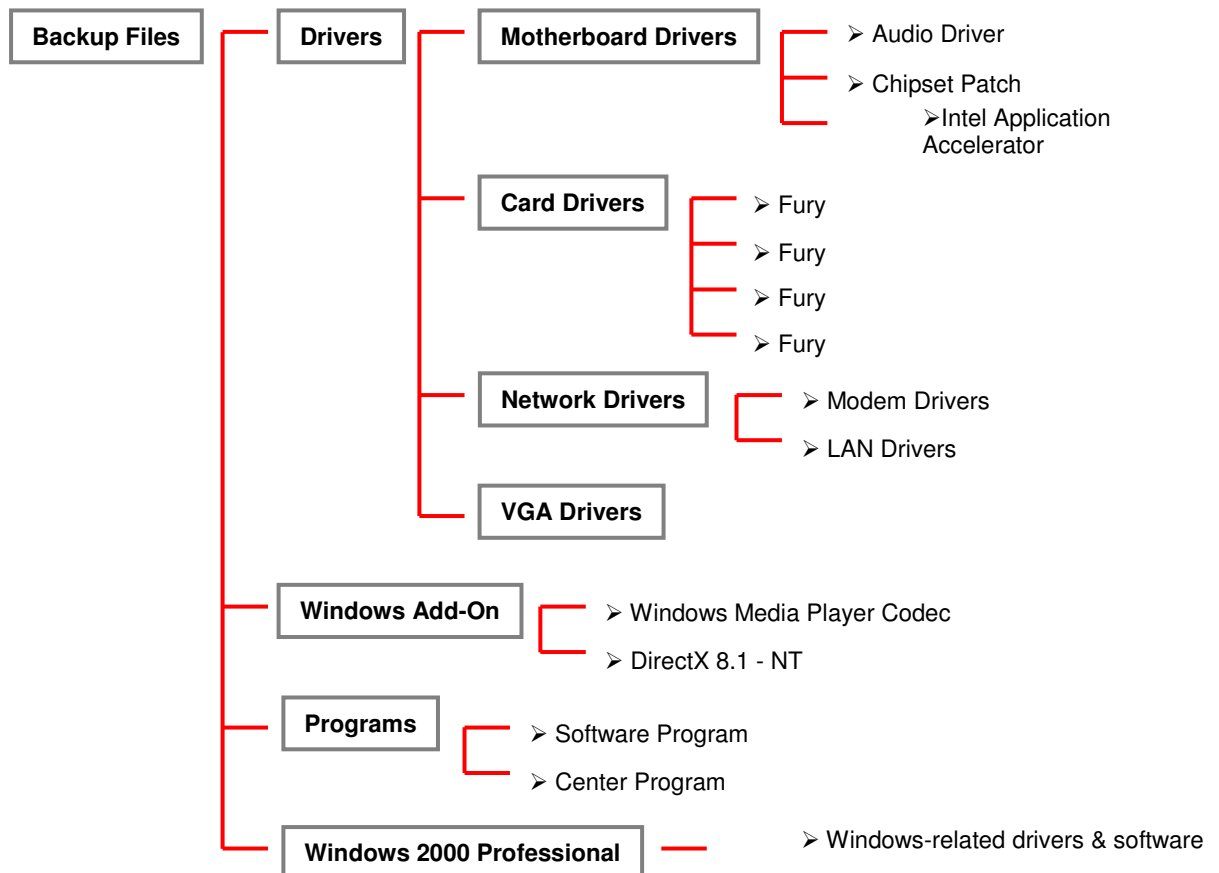
- A. Backup Files
- B. Receiver Boards Layout
- C. User Management
- D. Windows Audio Setup

A. Backup Files

All essential files needed to set up Fury System are stored in **C:\BackUp-Win2K**. In case of serious computer breakdown or if system setup files are required for other reasons, use the backup files stored in this folder.

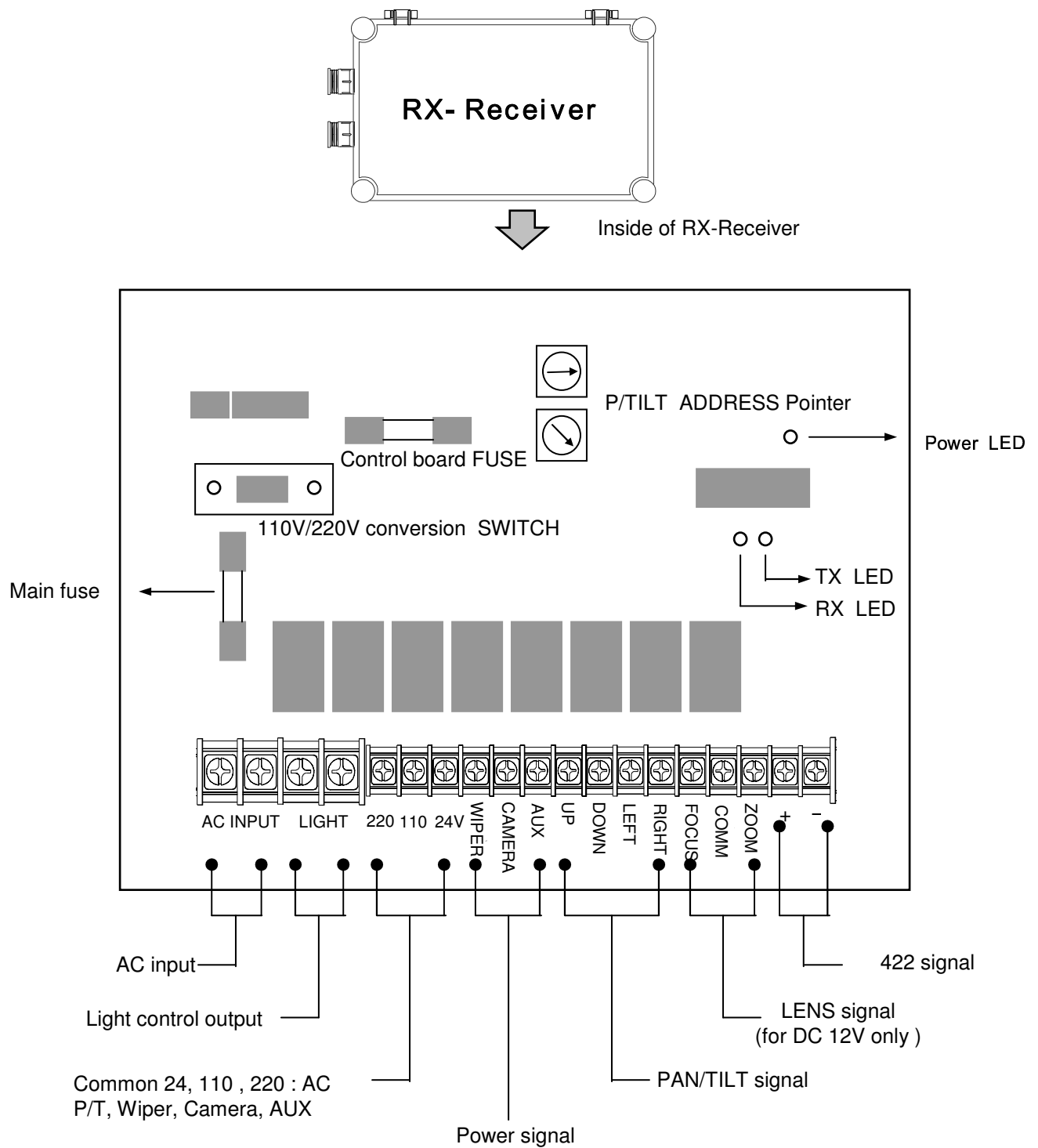
We do not recommend inexperienced computer users to use, move, or modify backup files unless otherwise instructed. Do not delete any backup files under any circumstances, as this may cause serious problems to the system. Only handle backup files if you are an advanced user.

The following figure tree shows the backup files contained in **C:\BackUp-Win2K** (folder structure may vary).



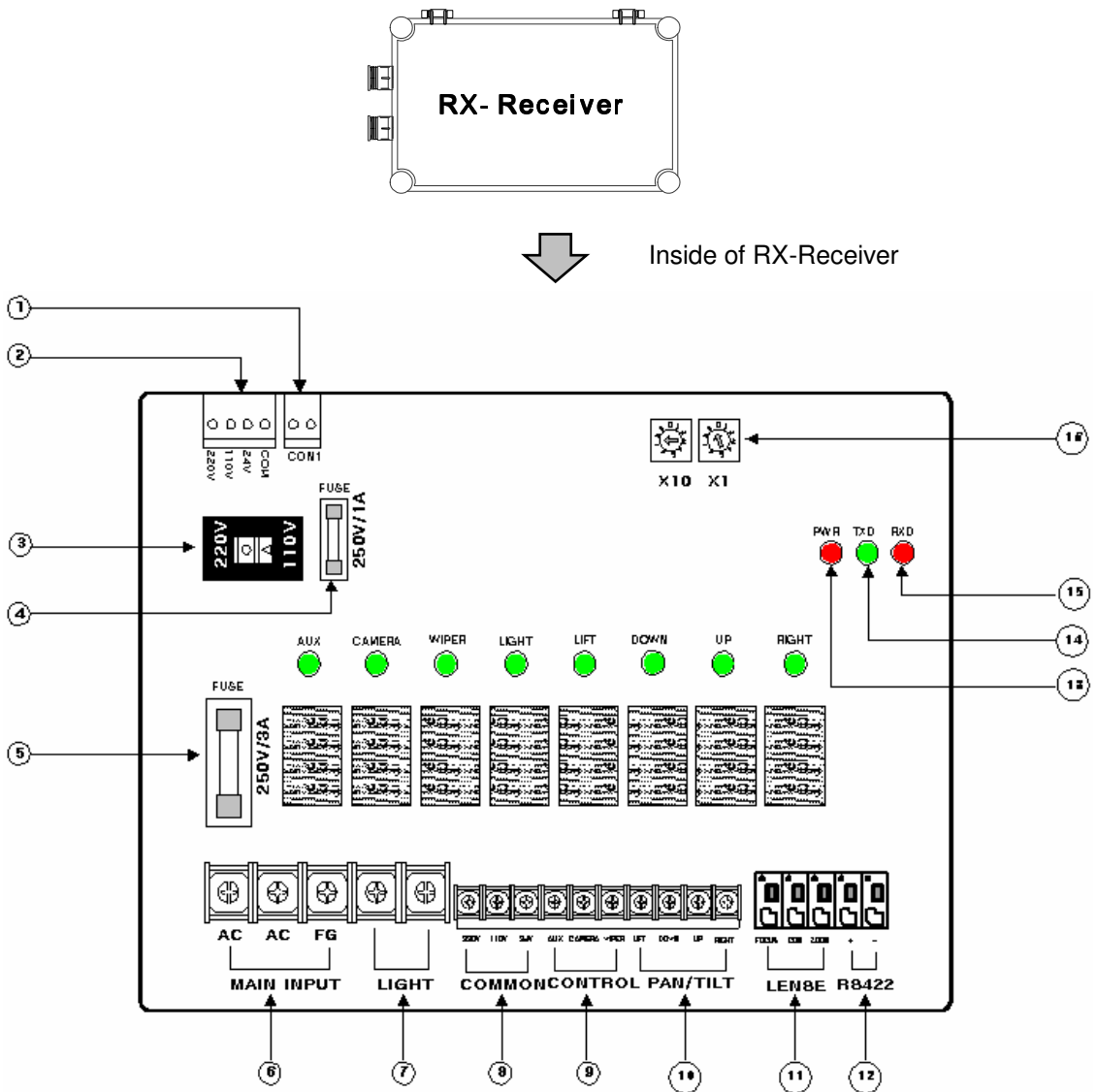
B. Fury Receiver Board Layouts

B.1. RX-Receiver (KRE-301) layout (optional)



Light-type controls voltage is same with AC input voltage. The voltage for Camera LENS signal is set to DC 12V.

B.2. RX-Receiver (KRE-302) layout (optional)



1. COM 1 : TRANS connection site
2. COM, 24V, 110V, 220V : TRANS connection site
3. AC 220V/110V : Select AC input voltage
4. FUSE : 250V/1A (control FUSE : RX Receiver control Fuse)
5. FUSE : 250V/2A (RX Receiver voltage Fuse)
6. MAIN INPUT : main input voltage
7. LIGHT : output of AC input voltage (connect to lamp power)
8. COMMON : 220 , 110V, 24V : AC output voltage (can be used commonly)
9. CONTROL : WIPER, CAMERA, AUX : connect to each connectors' power
10. RIGHT, LEFT, DOWN, UP : connect to PAN/TILT DRIVE
11. ZOOM, COMM, FOCUS : connect to Lens
12. +, - : connect to RS-422 signal line on BOARD (IO8816)
13. PWR : Power display LED for RX Receiver
14. TXD LED : LED displaying data transmission from RX-Receiver to IO8816(RS-422)
15. RXD LED : LED displaying data transmission from IO8816(RS-422) to RX-Receiver
16. PAN/TILT ADDRESS : Assign address when using multiple RX-Receivers (assign from 00 to 99)

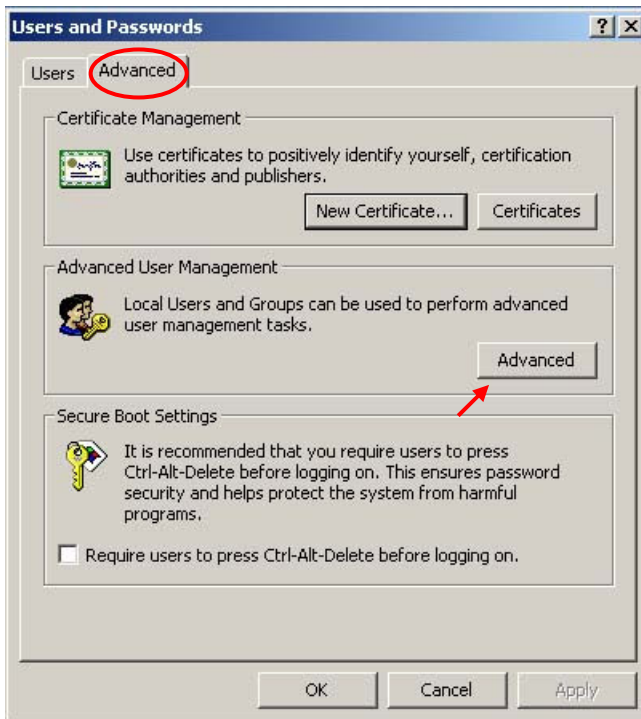
C. User Management

User management

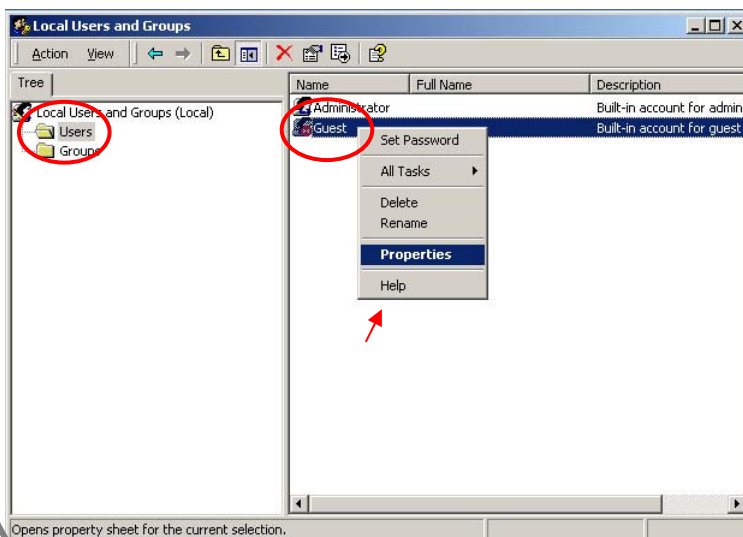
In order to connect Site with Center for Emergency Connections, User Management needs to be set up correctly beforehand.

User password and account for Guest must be set up for modem connections. To do so, follow the steps shown below:

- 1 Double-click on **Users and Passwords** in **Control Panel** (To access **Control Panel**: Press **Start** → **Settings** → **Control Panel**).



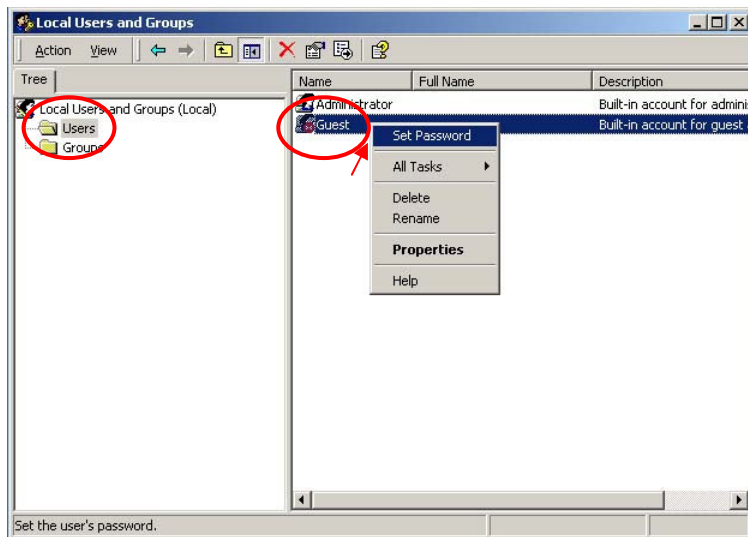
- 2 Select **Advanced** tab and click **Advanced** button.



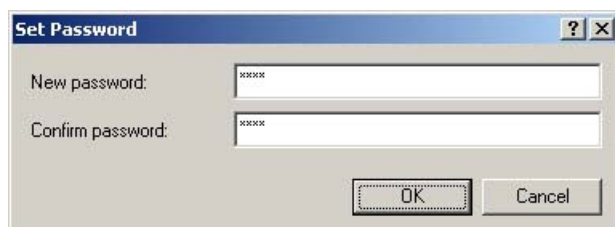
- 3 Select **Users** menu and right-click on **Guest** to select **Properties**.



- 4 Enable Guest account by disabling **Account is disabled** option and click **Ok**.



- 5 Select **Users** menu and right-click on **Guest** to select **Set Password**.

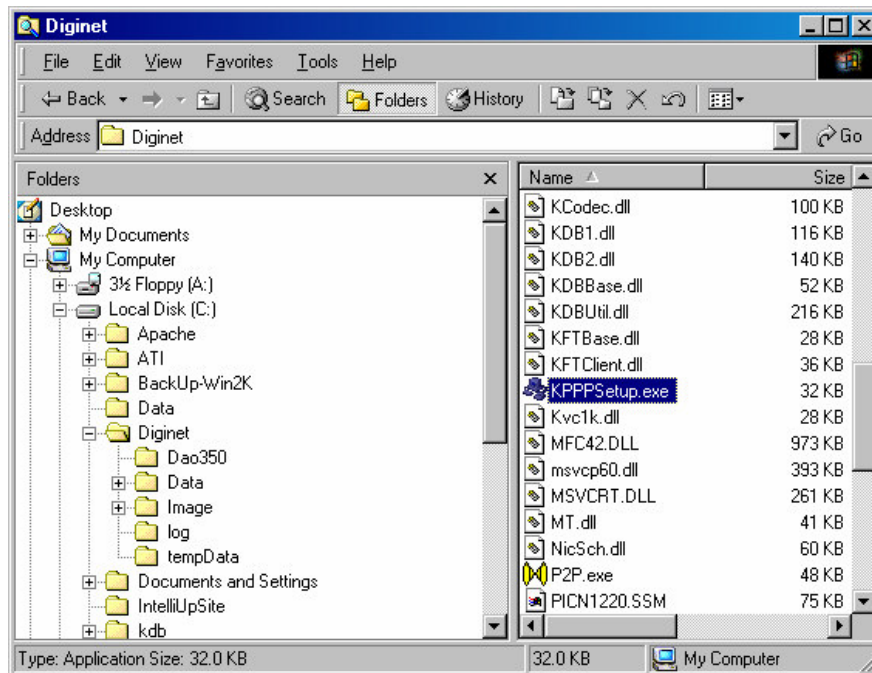


- 6 Type **1234** for both **New password** and **Confirm password** (Default password for Center is set to **1234**).



- 7 Click **Ok** when confirmation message appears.

Setting PPP for PSTN/ISDN



1 [Requirements]

- During the installation, the system may ask you to insert Windows 2000 Professional CD. In these cases, simply type the location of Windows 2000 Professional backup folder.
- Before proceeding with **PPP setup**, you must have a modem installed in Windows (if a physical modem is not installed to system hardware, **PPP setup** is not required at all). To install a modem, find the correct modem driver from the backup folder and install the driver.
- Close any Network or dial-up server properties window before installing.

2 [PPP Setup using KPPPSetup.exe]

KPPPSetup.exe installs and makes changes to network components automatically. Double-click **KPPPSetup.exe** as shown above. PPP setup for PSTN and ISDN will also complete automatically. Repeat the procedure for Center PC.

After installation is complete, please check to see if connection between Site and Center PC works correctly using Site and Center software.

3 [Install Components]

Launching **KPPPSetup.exe** will install following components:

- Dial-Up Networking
- Dial-Up Server
- Changes made to Dial-Up Server properties
- Phone dialer
- TCP/IP Protocol



• If TCP/IP or Dial-Up adapter is already installed, they will not be installed again.

- Do not run **KPPPSetup.exe** more than once in same instance. Wait until a message indicating that your system will reboot appears.

Creating Network Icon

- Please make sure a modem for PSTN and/or ISDN TA (Terminal Adapter) is installed properly before proceeding.
- There is no automatic PPP setup file for Dial-Up Networking setting. It must be done manually as shown below:

- 1 Double-click on **Network and Dial-up Connections** in **Control Panel** (To access **Control Panel**: Press **Start** → **Settings** → **Control Panel**).
- 2 Double-click on **Make New Connections** to begin **Network Connection Wizard** and proceed by clicking **Next**.



Network Connection Wizard

Network Connection Type
You can choose the type of network connection you want to create, based on your network configuration and your networking needs.

☒ **Dial-up to private network**
Connect using my phone line (modem or ISDN).

☐ **Dial-up to the Internet**
Connect to the Internet using my phone line (modem or ISDN).

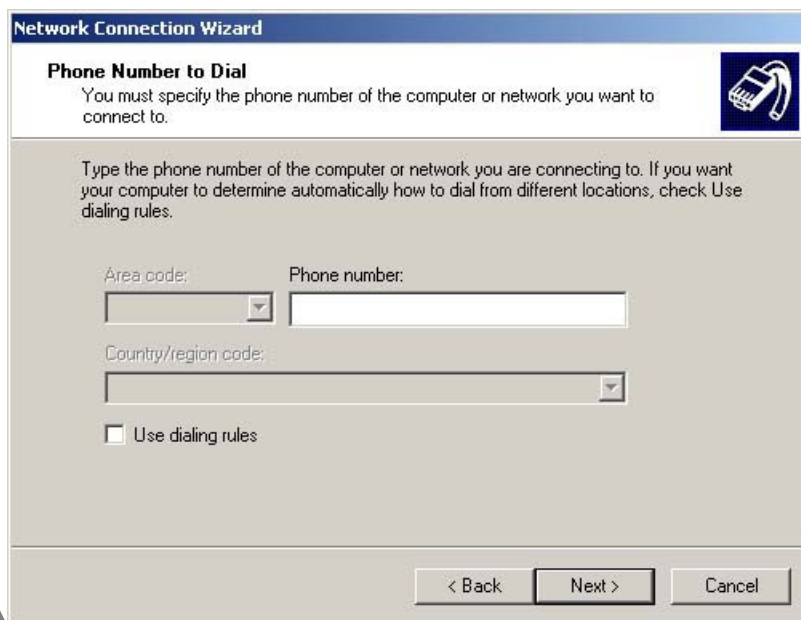
☐ **Connect to a private network through the Internet**
Create a Virtual Private Network (VPN) connection or 'tunnel' through the Internet.

☐ **Accept incoming connections**
Let other computers connect to mine by phone line, the Internet, or direct cable.

☐ **Connect directly to another computer**
Connect using my serial, parallel, or infrared port.

< Back Next > Cancel

- 3 Select **Dial-up to private network** and click **Next**.



Network Connection Wizard

Phone Number to Dial
You must specify the phone number of the computer or network you want to connect to.

Type the phone number of the computer or network you are connecting to. If you want your computer to determine automatically how to dial from different locations, check Use dialing rules.

Area code: Phone number:

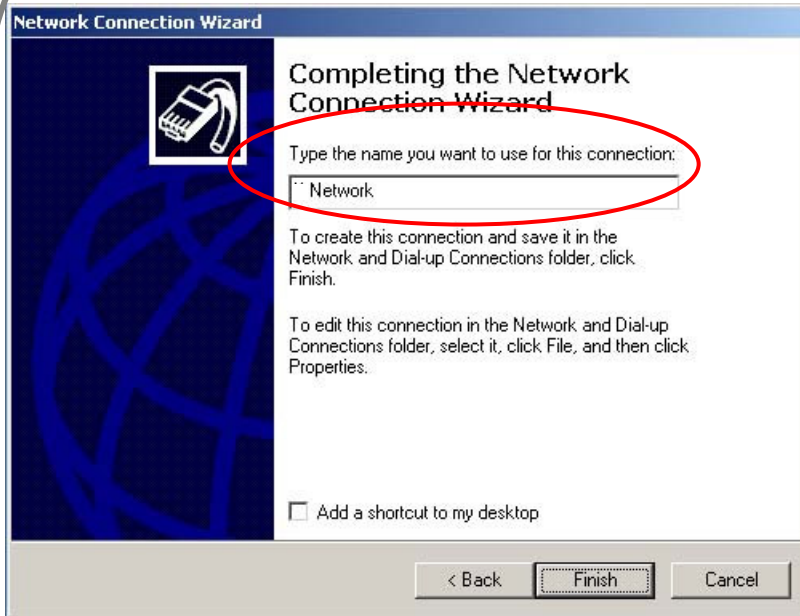
Country/region code:

☐ Use dialing rules

< Back Next > Cancel

- 4 Leave all boxes empty as shown and click **Next**.

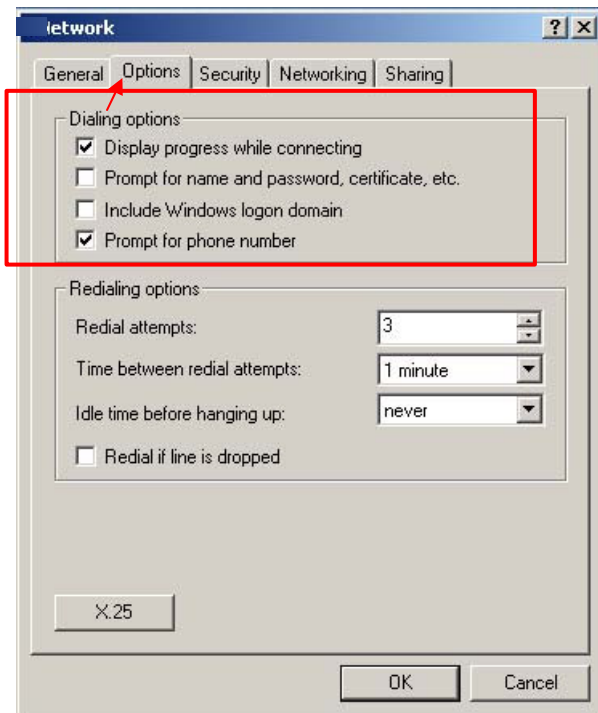
- 5 Select **Create this connection: For all users** in **Connection Availability** and click **Next**.



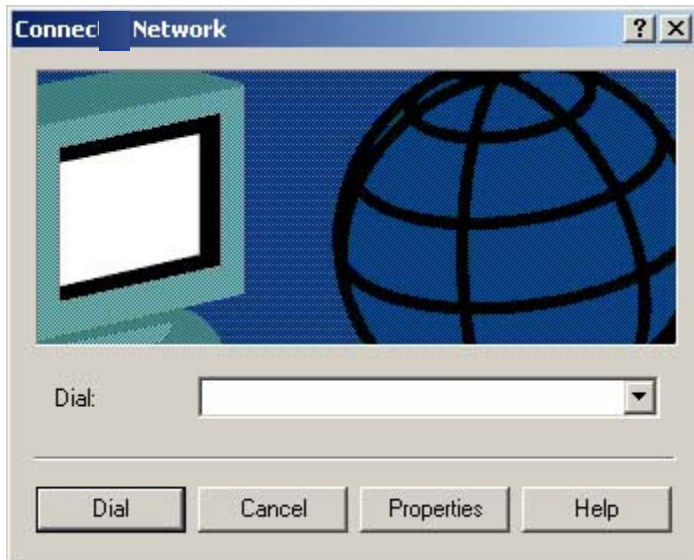
- 6 Type **Network** for the name of connection and complete **Network Connection Wizard** by clicking **Finish**.



- 7 **Connect Network** window will appear automatically. Delete any name in **User name** and click **Properties**.



- 8 Select **Options** tab and change the **Dialing options** as shown. Click **Ok**.



- 9 Leave **Dial** box blank and click **Cancel**.

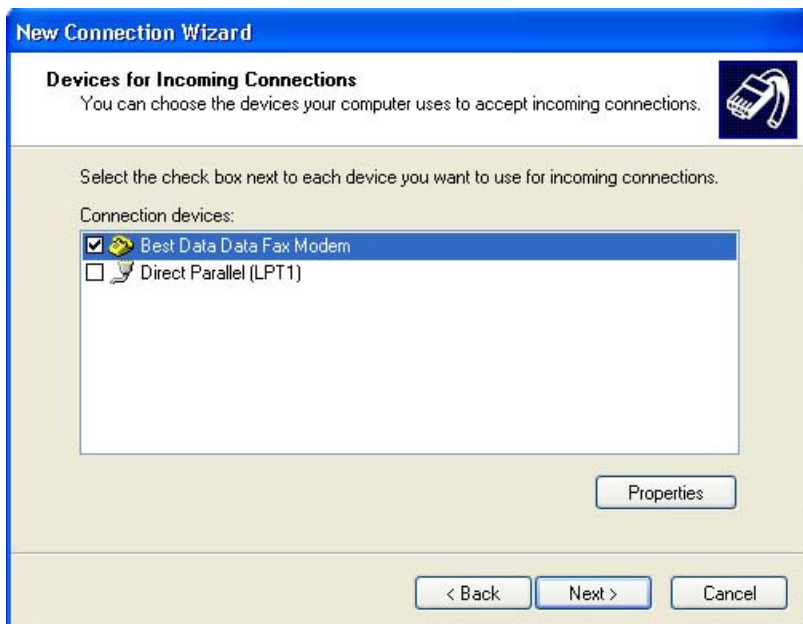
- 10 Check if **Network** icon is created in **Network and Dial-up Connections** (follow Step 1 to access **Network and Dial-up Connections**).

Creating Incoming Connections icon

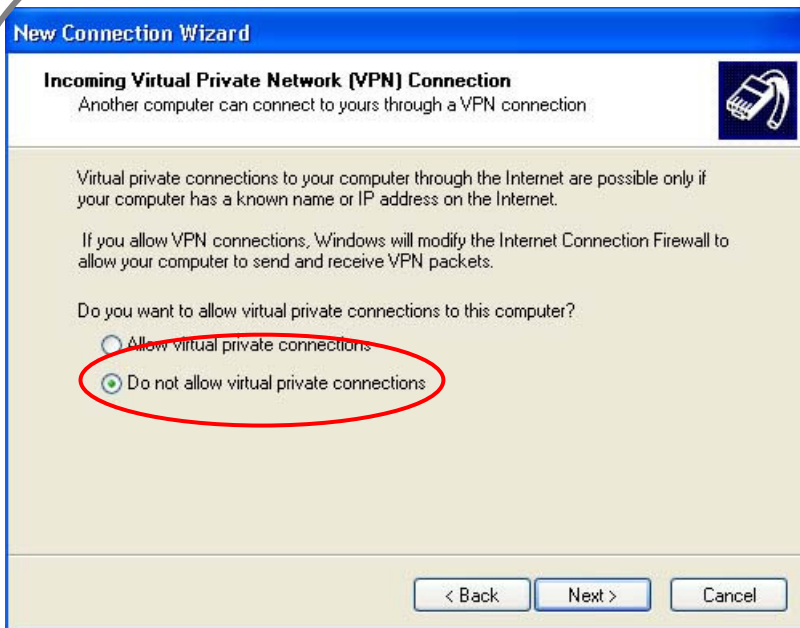
- 1 Double-click on **Network and Dial-up Connections** in **Control Panel** (To access **Control Panel**: Press **Start** → **Settings** → **Control Panel**).
- 2 Double-click on **Make New Connections** to begin **Network Connection Wizard** and proceed by clicking **Next**.



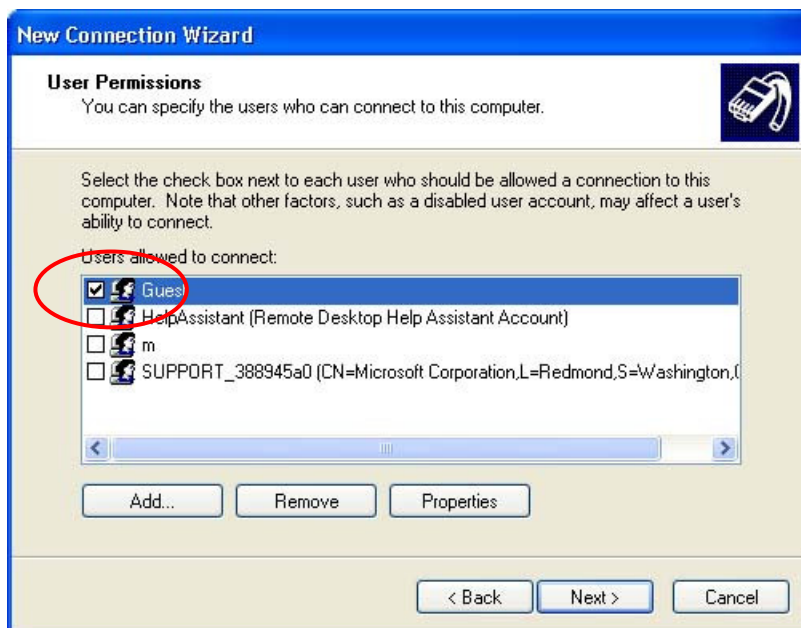
- 3 Select **Accept incoming connections** and click **Next**.



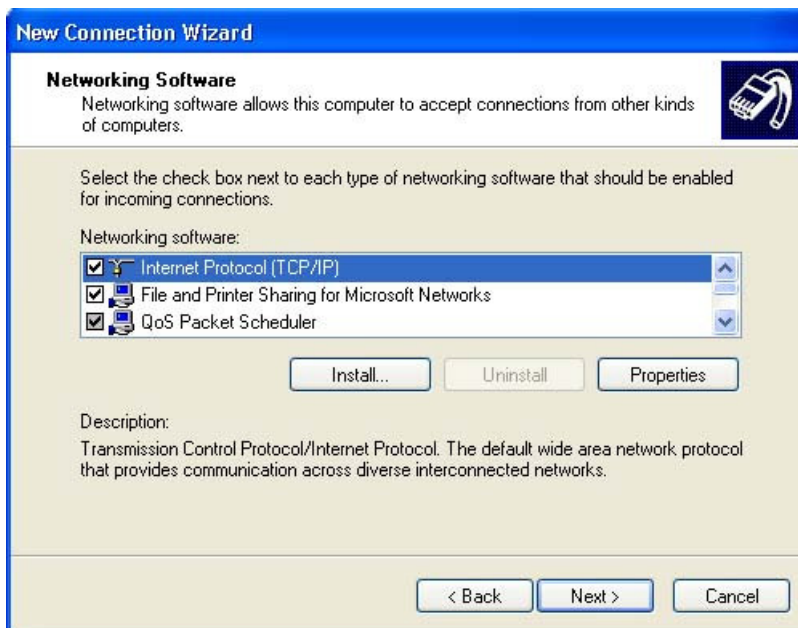
- 4 For **Connection devices**, select the modem you have installed and click **Next** (the modem installed may differ to the screenshot shown).



- 5 Select **Do not allow virtual private connections** and click **Next**.



- 6 For **Users allowed to connect**, select **Guest** from the list and click **Next**.



- 7 Do not make any changes in **Networking software** setting and click **Next**.

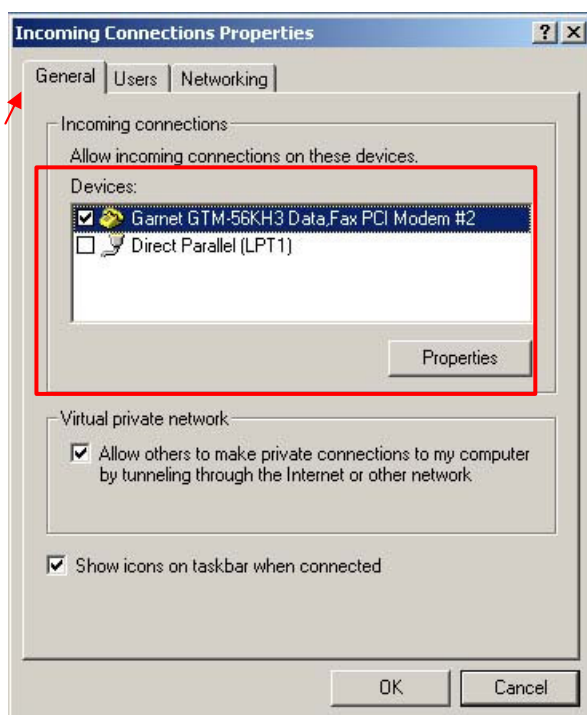
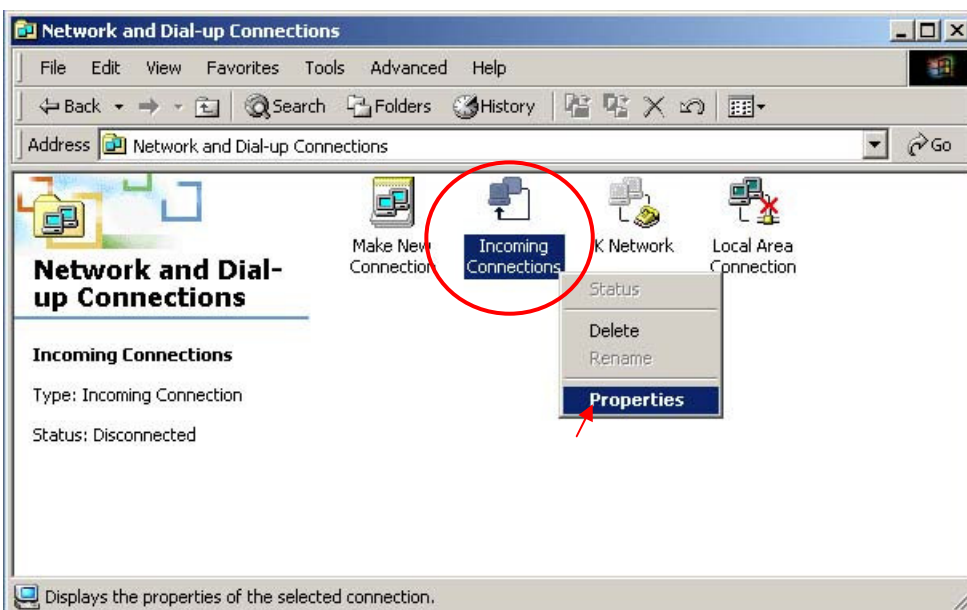


- 8 Complete **Network Connection Wizard** by clicking **Finish**.

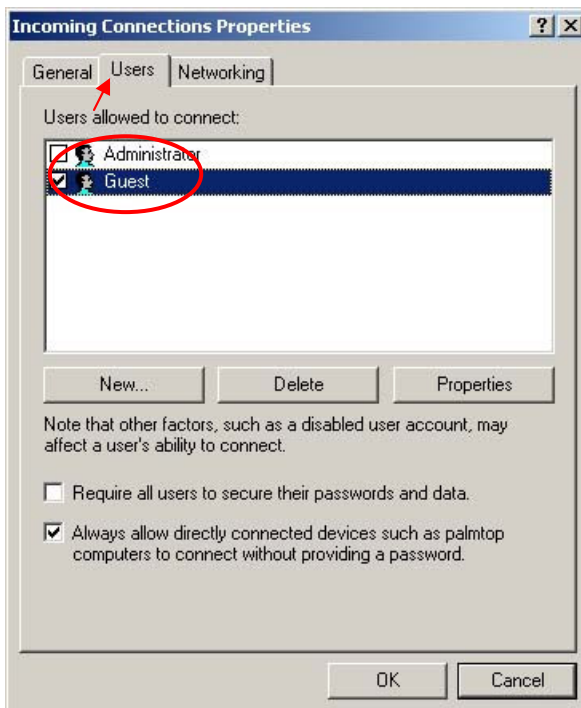
- 9 Check if **Incoming Connections** icon is created in **Network and Dial-up Connections** (follow Step 1 to access **Network and Dial-up Connections**).

Connection properties

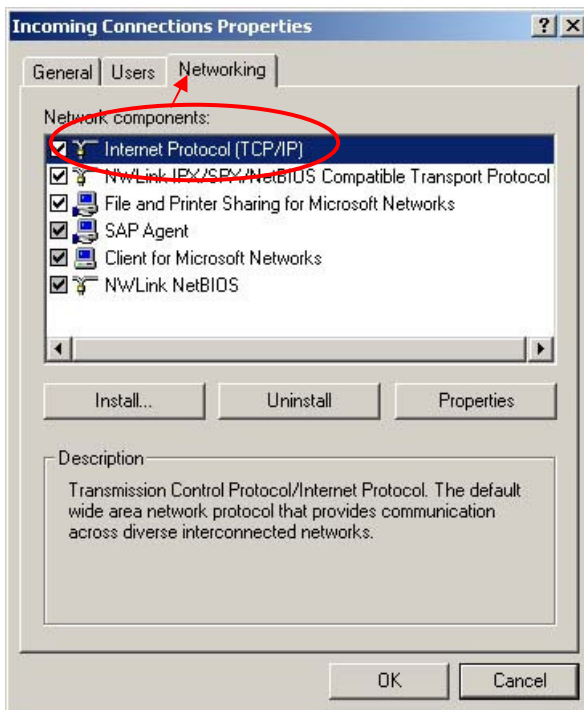
- 1 Double-click on **Network and Dial-up Connections** in **Control Panel** (To access **Control Panel**: Press **Start** → **Settings** → **Control Panel**).
- 2 Right-click on **Income Connections** and select **Properties**.



- 3 In **General** tab, select a modem device and click **Properties**.

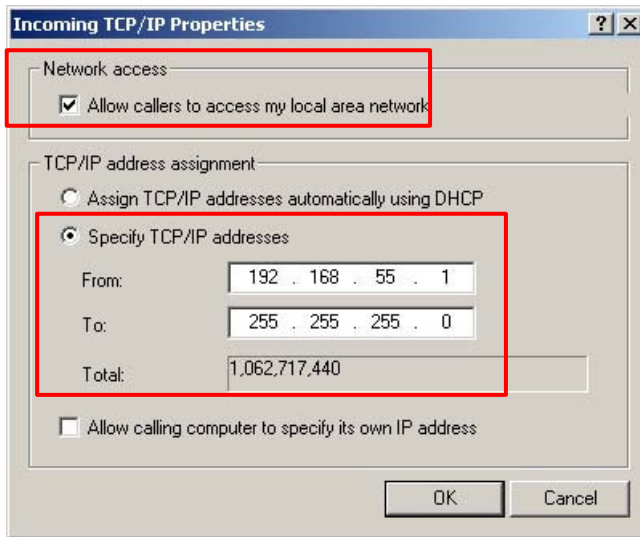


- 4 Select **Users** tab and enable **Guest** from the list (in some cases, if **Guest** is disabled, **Dial-up Networking** will not work properly).



- 5 Select **Networking** tab. Then select **Internet Protocol (TCP/IP)** and click **Properties**.

- 6 Change the setting as shown below and click **Ok**.



- **Network access:** enable **Allow callers to access my local area network**.
- **TCP/IP address assignment:** select **Specify TCP/IP addresses** and type the below address.
 - **From:** 192 . 168 . 55 . 1
 - **To:** 255 . 255 . 255 . 0

This concludes network setup.

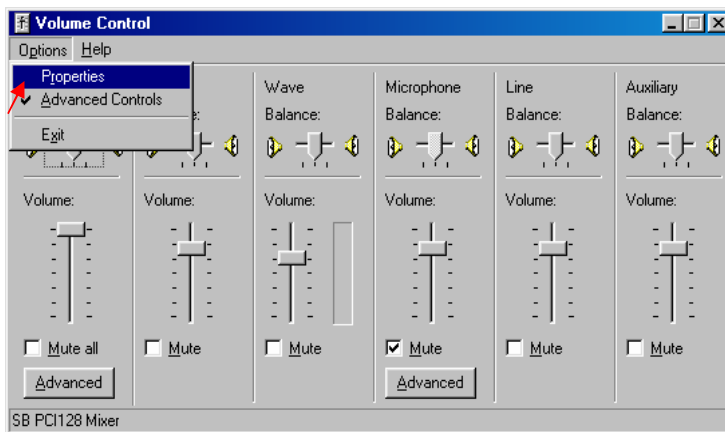
A. Windows Audio Setup

Windows audio setup

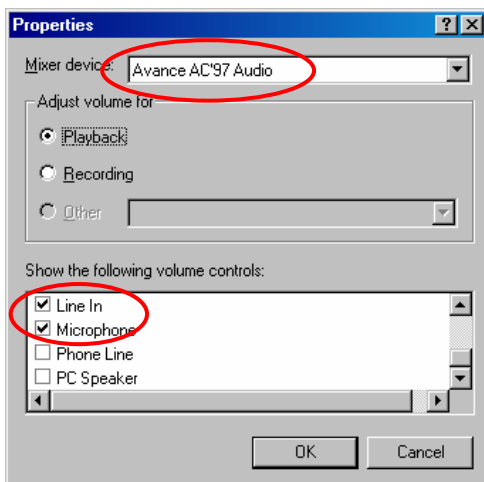
Before proceeding with audio recording, you must setup microphone volume as shown below:



1 Press **Start** → **Programs** → **Accessories** → **Entertainment** → **Volume Control**.



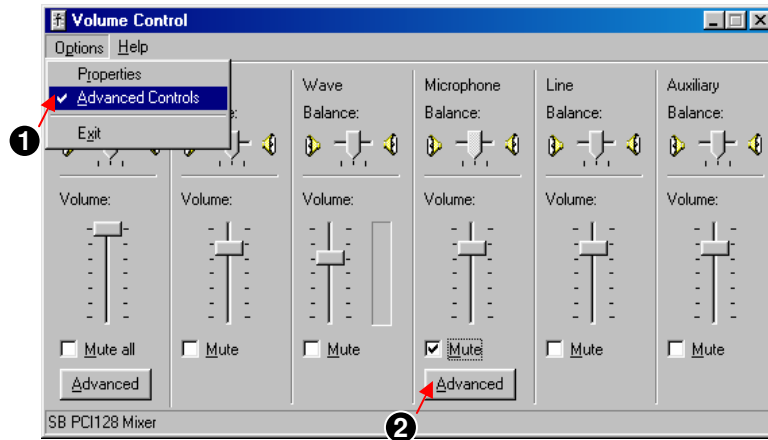
2 Click **Options** and select **Properties**.



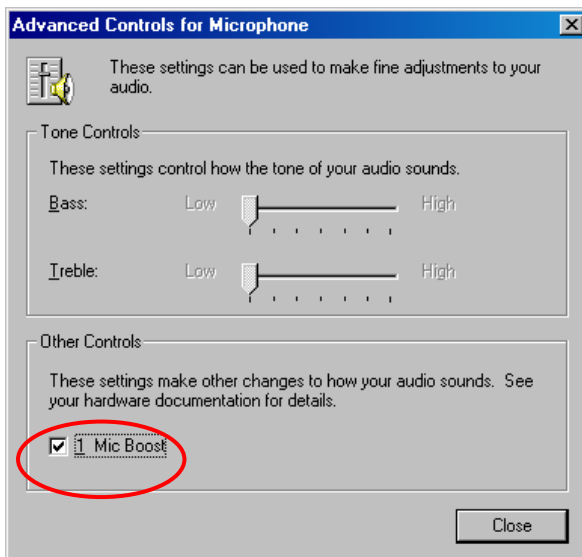
3 **Mixer device** should be installed to Windows (device name may vary depending on the soundcard). Enable **Microphone** for volume control and click **OK**.

If microphone input level is too low, you can amplify the microphone input to increase volume as shown below.

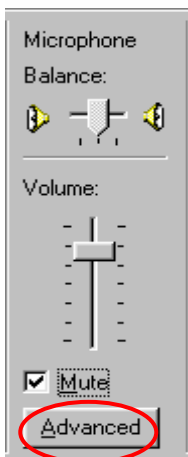
1 Click **Options** and select **Advanced Controls** (if **Advanced Controls** is already enabled, do not click it).



2 Click **Advanced** button for Microphone.



3 Enable **1 Mic Boost**.



➤ If you do not wish to hear recorded voice, enable **Mute** as shown on the left.

➤ If the system does not support **Microphone boost** function, **Advanced** button will not appear. If you need to increase the microphone input level, you must acquire more sensitive microphone.

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Warranty Guide

This product has passed quality control tests. If the system breaks down in its own during normal usage we provide 12 months warranty service.

Warranty Guide

- ☐ Check the Product Warranty Service below first.
- ☐ Please contact the distributor when there is problem with the product and inform the engineer what the problem is.
- ☐ Standard procedures for repairing, replacement or refund will follow.

Warranty Content

- ☐ For any defects found while normal usage within warranty service period, we will provide free repair service.
- ☐ We charge fees for parts and services if the defect was caused by:
 1. Carelessness handling.
 2. Natural disaster.
 3. Disobeying instructions in product manual.
 4. Incorrect power voltage or frequency.
 5. When you want to reassemble for full system or replace parts within warranty service period.
 6. Unauthorized engineer modifying or causing damage to product during repair.
- ☐ We charge fees for any repairs after warranty period.

Product Warranty Service

Product & model name		
Product Serial Number		
Distributor		
Date you purchased		
Warranty Period		12 months from purchase date
Customer	Name	
	Address	

- This warranty sheet will not be provided again unless exceptional cases.
- Please fill in the blanks after you purchase the product.
- You must show this product warranty service sheet to receive warranty service.



If you have any questions about this product, you may call:
Kaltech Enterprises Tech Support Center
1-866-446-3595 Ext. 242
helpdesk@kaltech.net