

D i g i t a l   S u r v e i l l a n c e   s o f t w a r e

# **DVR User**Guide



Authorized Dealer of

**MagicRadar**

Creative Leader,  
in video surveillance !



**imotion**  
[www.imotionsecurite.com](http://www.imotionsecurite.com)

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# CHAPTER 1

## HARDWARE Specification

### 1. Product Specification

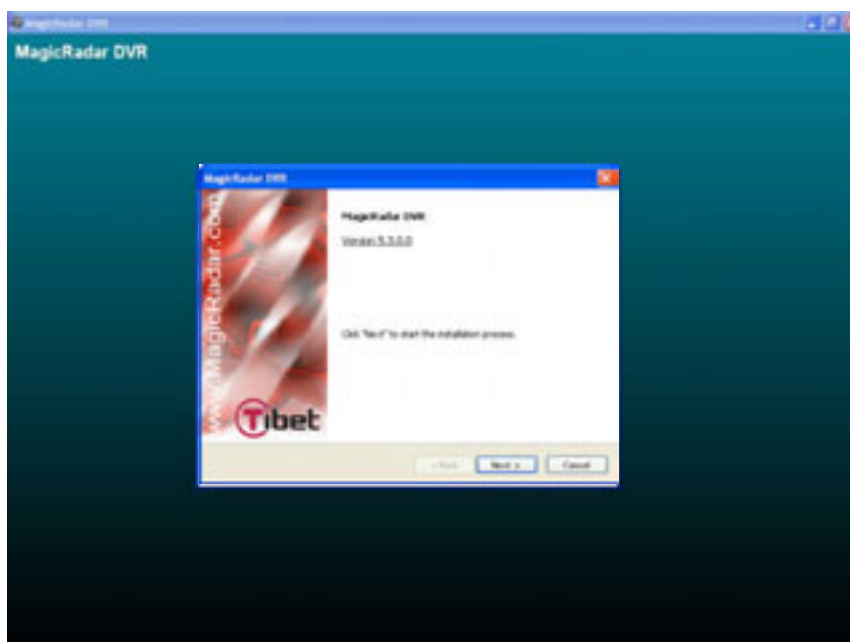
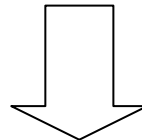
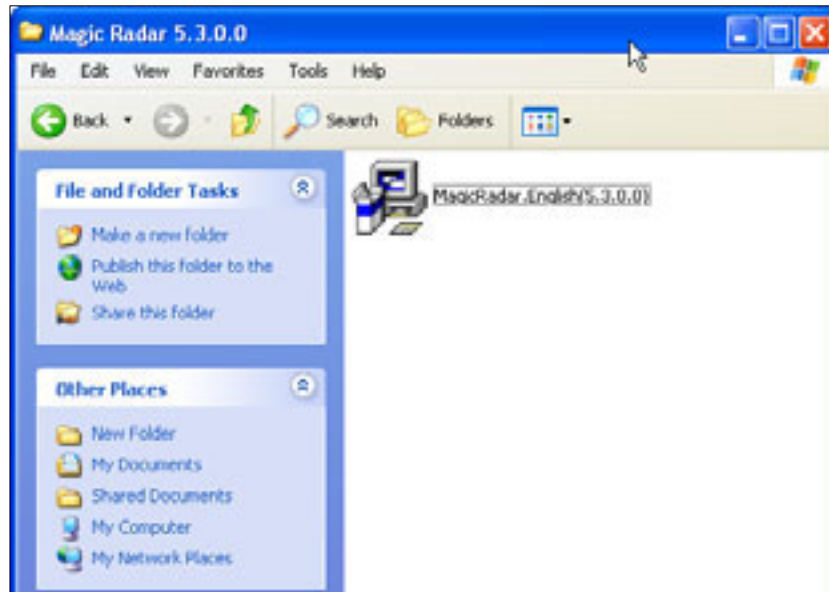
<b>Models</b>	<b>T04 / TT16 / TS04 / TS16 / CS04 / CS08 / CD08 / CS16 / CD16 / LS16 / LD16 / LL16 / LL32</b>
<b>Displaying Speed</b>	30fps(NTSC), 25fps(PAL) / 30, 25 / 60, 50 / 60,50 / 120, 100 / 120, 100 / 240, 200 / 120, 100 / 240, 200 / 480, 400 / 480, 400 / 480,400 / 960, 480
<b>Recording Speed</b>	30fps(NTSC), 25fps(PAL) / 30, 25 / 60, 50 / 60,50 / 120, 100 / 120, 100 / 240, 200 / 120, 100 / 240, 200 / 120, 100 / 240, 200 / 480, 400 / 800, 400
<b>Video Inputs</b>	4 / 16/ 4/16 / 4 / 8 / 8 / 16 / 16 / 16 / 16/ 16/ 32
<b>Audio Inputs</b>	1/ 1 / 2/ 2 / 4 / 4 / 8 / 4 / 8 / 4 / 8/ 16/ 16
<b>Sensor Inputs</b>	4 / 4/ 4/ 4 / 4 / 16 / 16 / 16 / 16 / 16 / 16 / 16/ 16
<b>Alarm Outputs</b>	2 / 2 / 2 / 2 / 4 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8
<b>Video Resolution</b>	D1, Half D1, CIF
<b>Compression Type</b>	MPEG-4
<b>Supported Signal Types</b>	NTSC, PAL
<b>Supported Network</b>	TCP/IP, PSTN
<b>Supported Backup Devices</b>	HDD, DVD/R, CD/RW, Network Driver, etc.
<b>Supported PTZ Protocols</b>	C&B Tech-CND100200&SMART, Changzhou Minking-Minking, CTNCom-HD0670, Dong Yang Unitech-DSC230, DRAGON-DRAGON, Dynacolor-TPD7720, Geosan-GRX1000, GOLDENEYE-GOLDENEYE, InterM-VRX2201, KALATEL-KTD312, KJK-KJK, LG-LPTA100L, PELCO D&P, SAMSUNG-SCC641&SDZ160R&SPD1600&SPX1000&SPT1000, SONY-EVID3031, Vicon-Survey&2000, ZITEC-ZITECH, etc.
<b>Operating Systems</b>	Windows XP, Vista
<b>Supported Languages</b>	English, Spanish, Japanese, French, Traditional Chinese, Simplified Chinese, Portuguese, Hebrew, Polish, German, Finnish, Greek, Hungarian, Korean, etc.

## CHAPTER 2

# Software Installation

**Steps:**

1. Insert MagicRadar S/W.
2. Double-click "MagicRadar.English(5.3.0.0)".



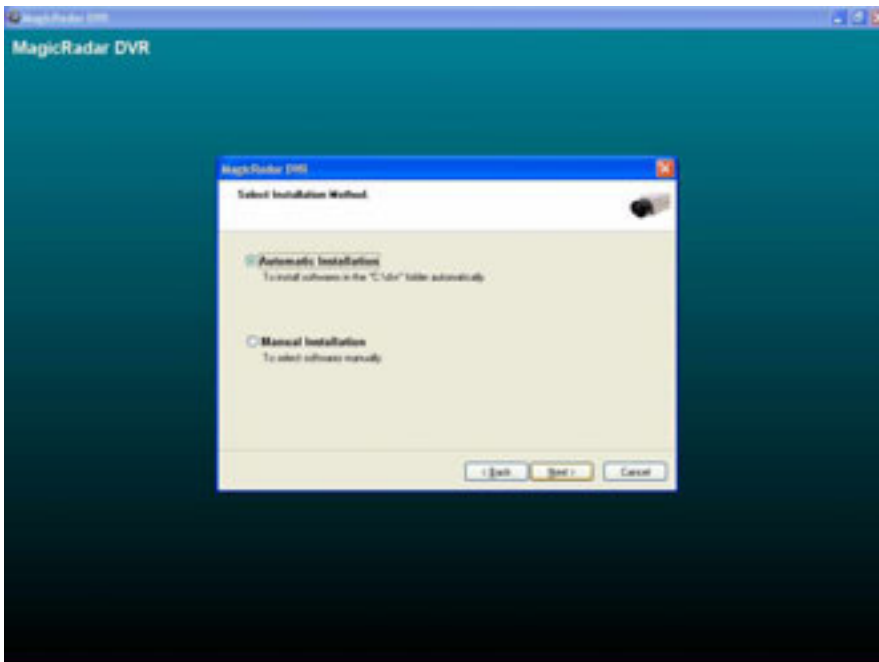
# 1. Automatic Installation

## (1) Definition

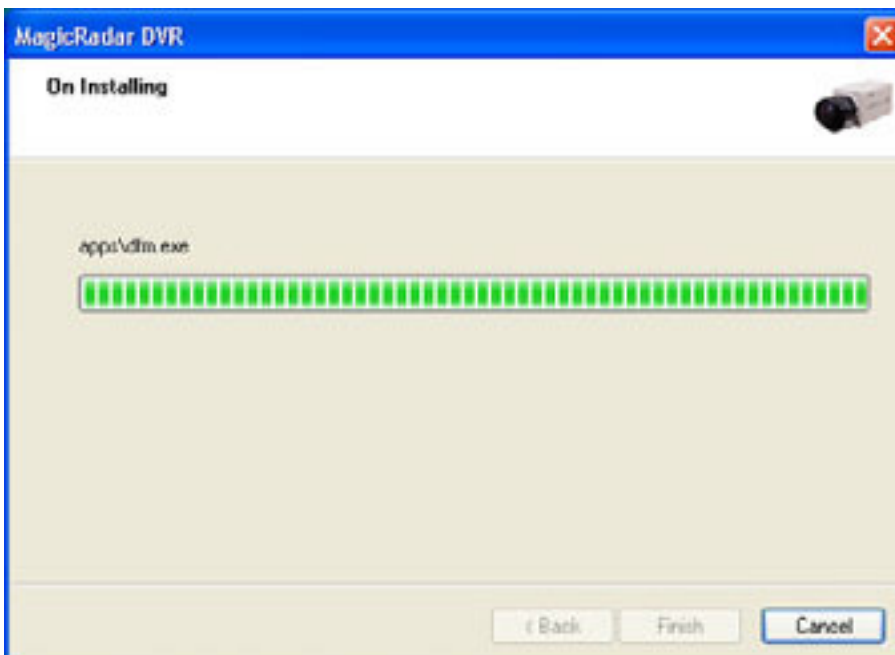
It is a method to install all the relevant softwares automatically.

Select “Automatic Installation” at all times unless only “MagicRadar Client” is to be installed.

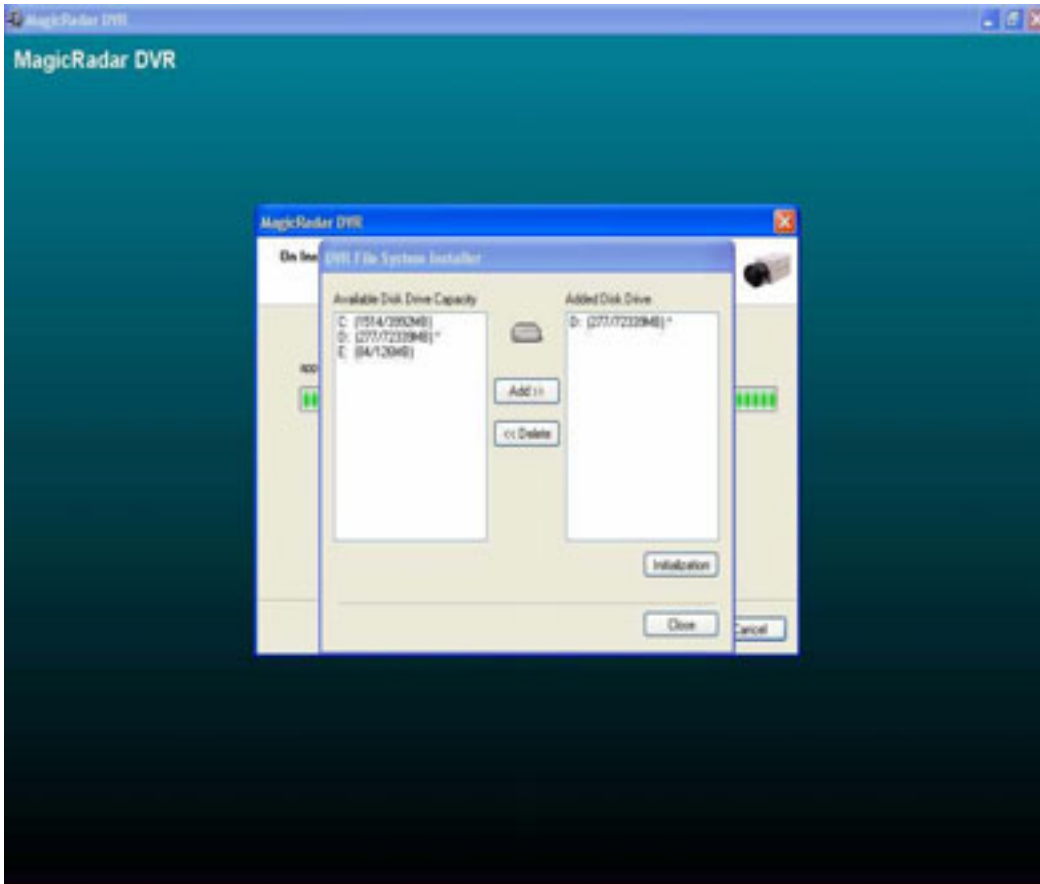
## (2) Installation Method Selection



## (3) Installing Drivers



## (4) DVR File System Installation

**Definition:**

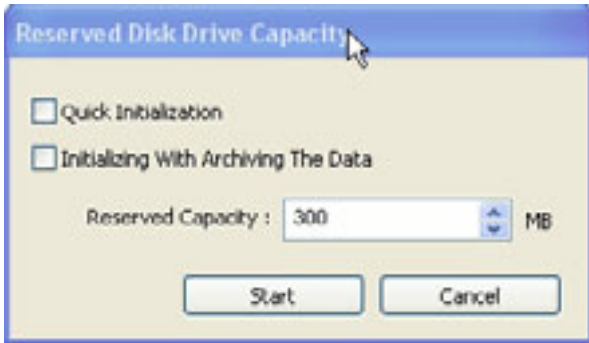
Occupying disk capacity to record data

**Steps:**

1. Select drives from “Available Disk Drive Capacity”
2. Click “Add”.
3. Click “Initialization”.

**Caution:**

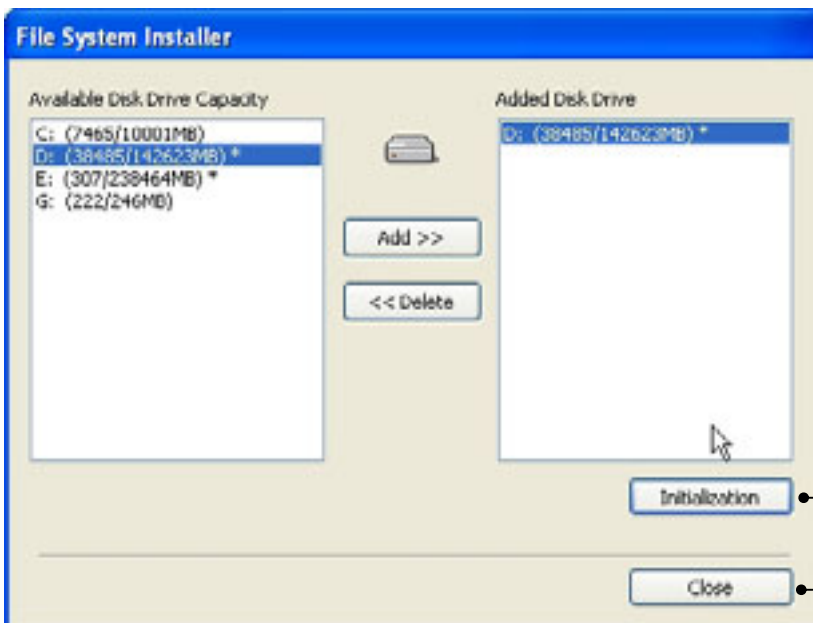
1. Be very careful not to add “C Drive”, for it is used for O/S and DVR software.
2. HDD has to be initialized to record data



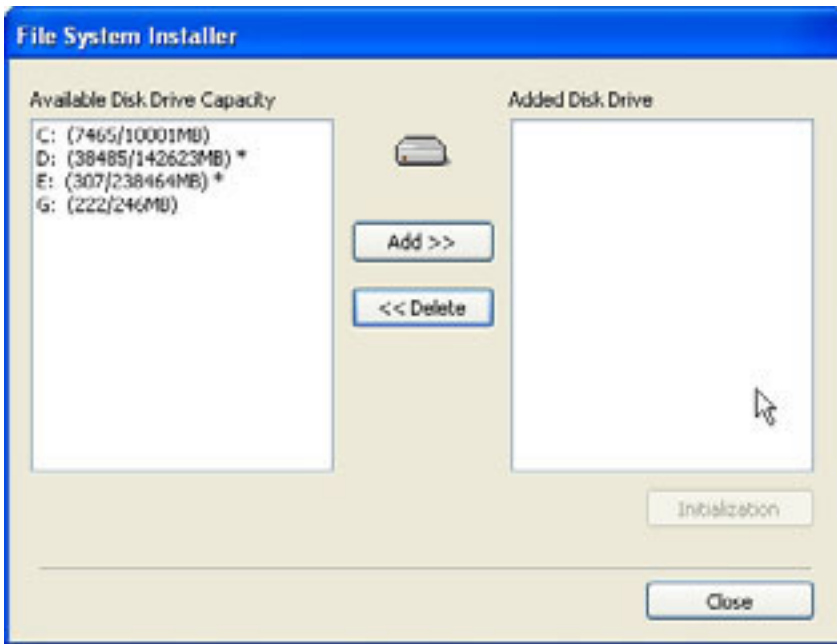
Selecting “Quick Initialization” will lead to the initialization of entire disk capacity added. Otherwise, put in desirable number to initialize. Note that the number can not exceed total capacity added.

Initializing With Archiving the Data: This is to increase DFS storage by taking additional space from the current “Reserved Capacity”. So new value for “Reserved Capacity” can not exceed the current one.

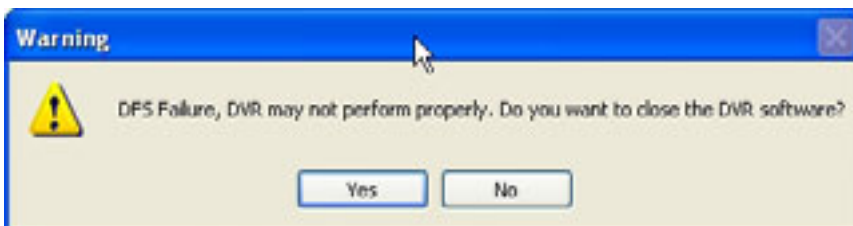
Minimum 300MB is recommended for DVR performance.



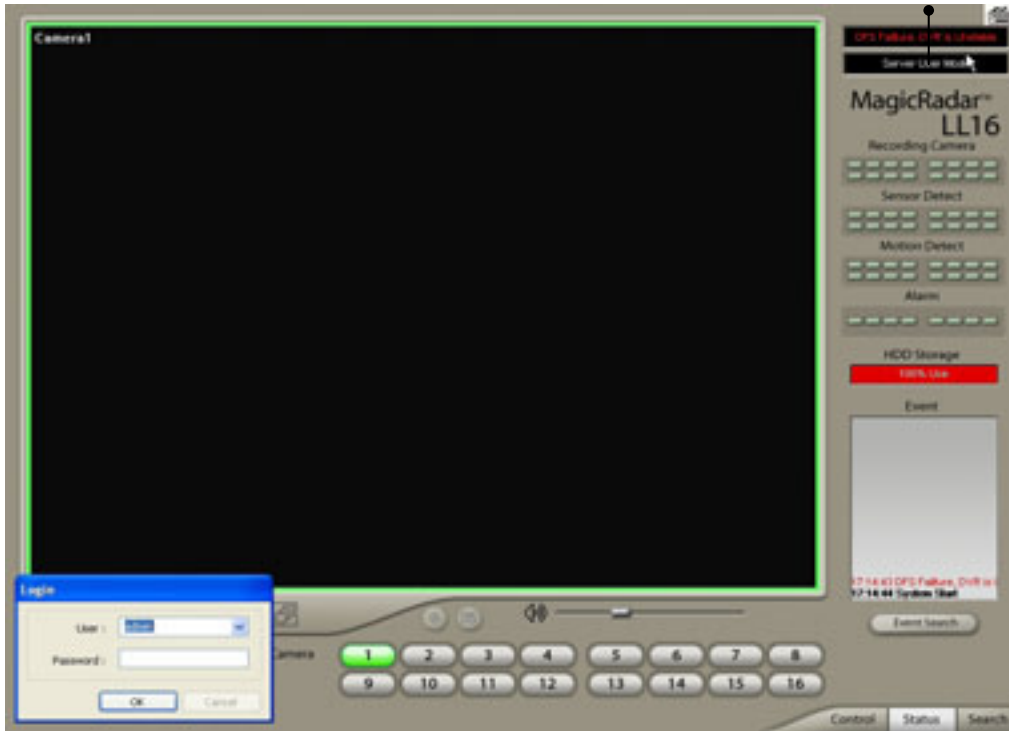
Initialization process will be performed automatically. Click “Close” upon completion.



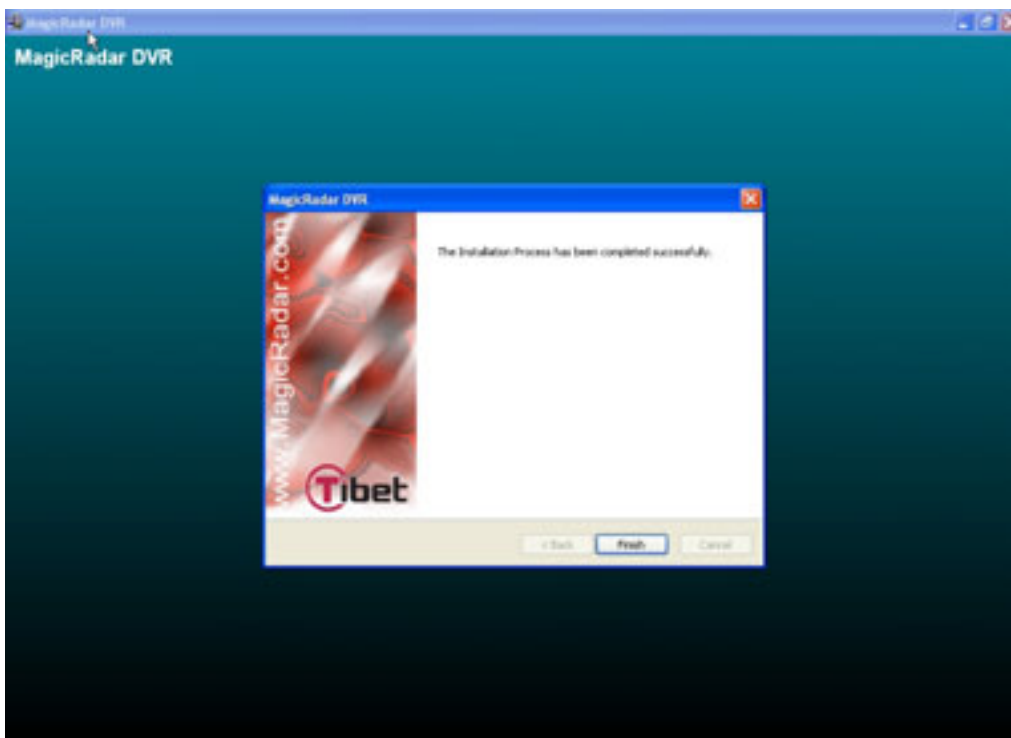
At least one of “available disk drive” must be added for data storage. Otherwise, the alert message will pop up.



DFS Failure, DVR is Unstable



### (5) Completion & Retry



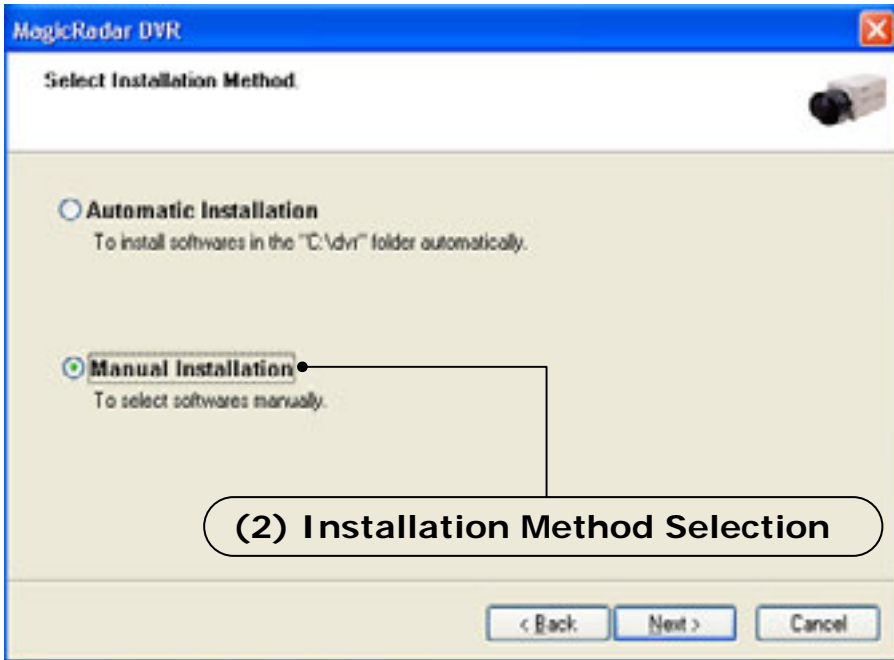
Retry the entire procedure if an error message is displayed.

## 2. Manual Installation

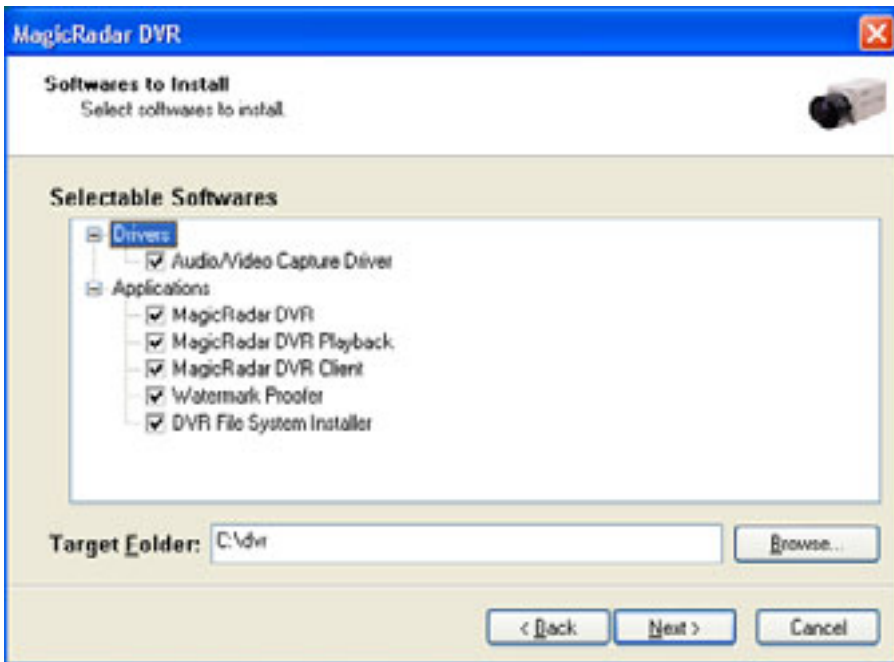
### (1) Definition

It is a method to install selected softwares manually.

Select "Manual Installation" only in the case of "MagicRadar Client" installation.



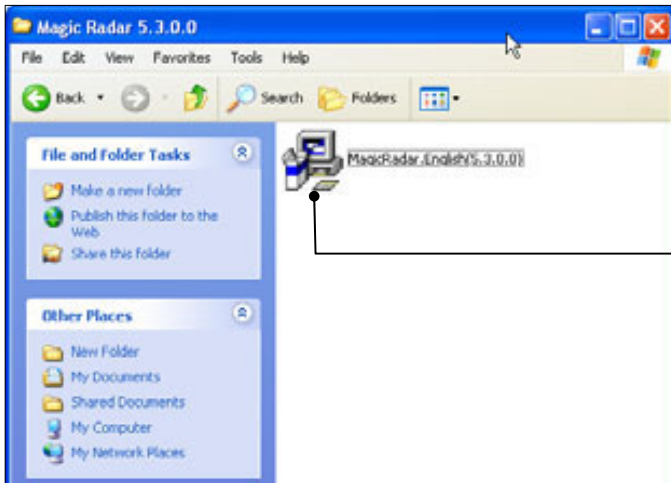
### (3) Software Selection



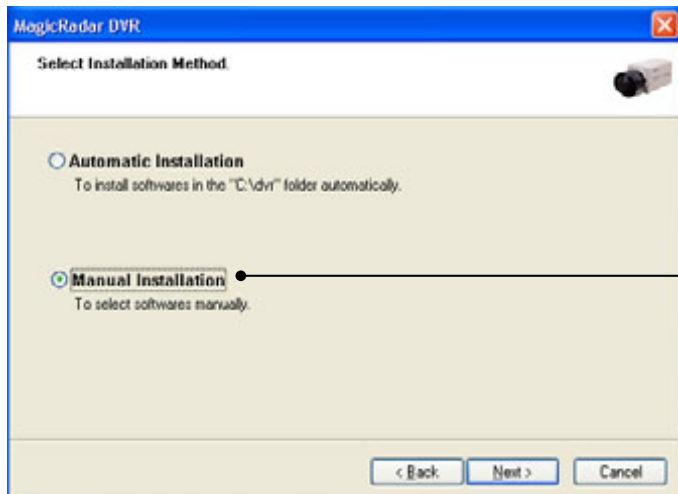
**Note:** The rest of the procedures are the same as "Automatic Installation".

## 3.Remote Client Installation

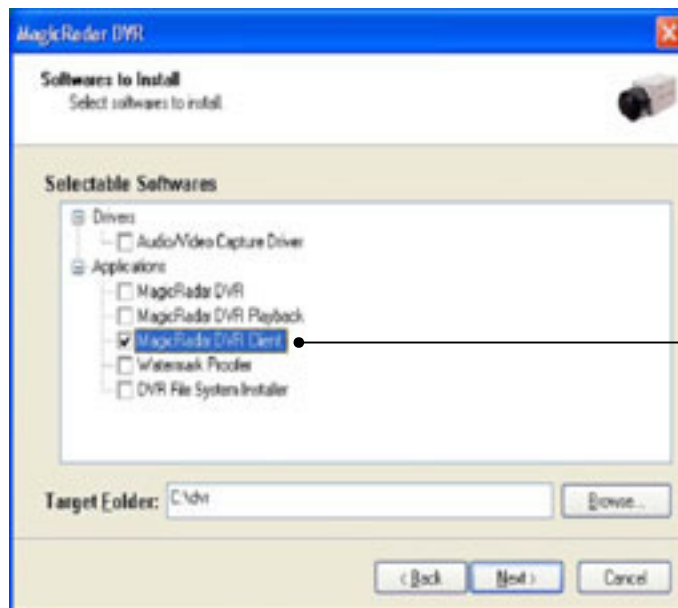
### (1) Using MagicRadar S/W



Double-click  
"magicradar(5.3.0.0).exe".

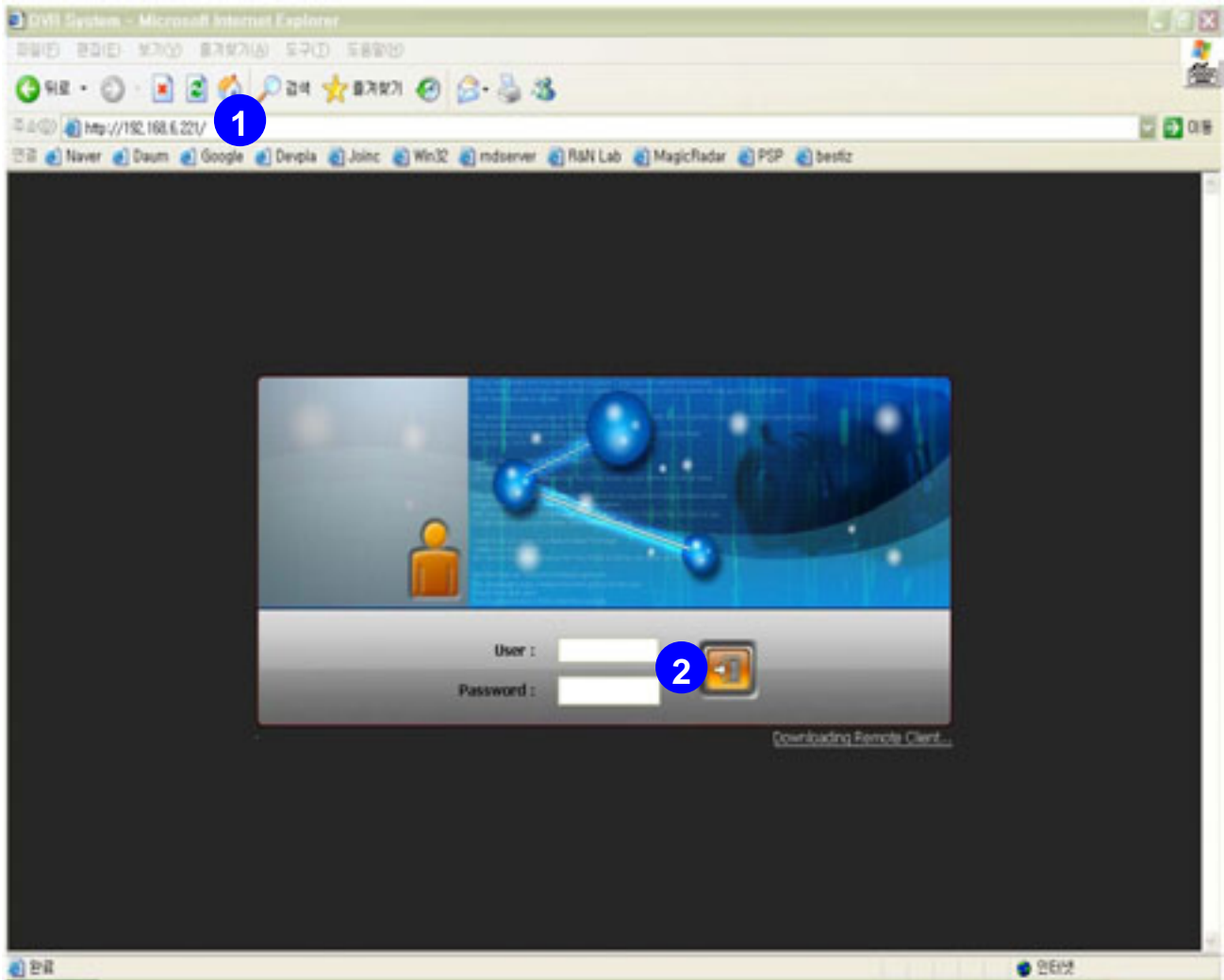


Select "Manual Installation".



Select "MagicRadar DVR  
Client" only.

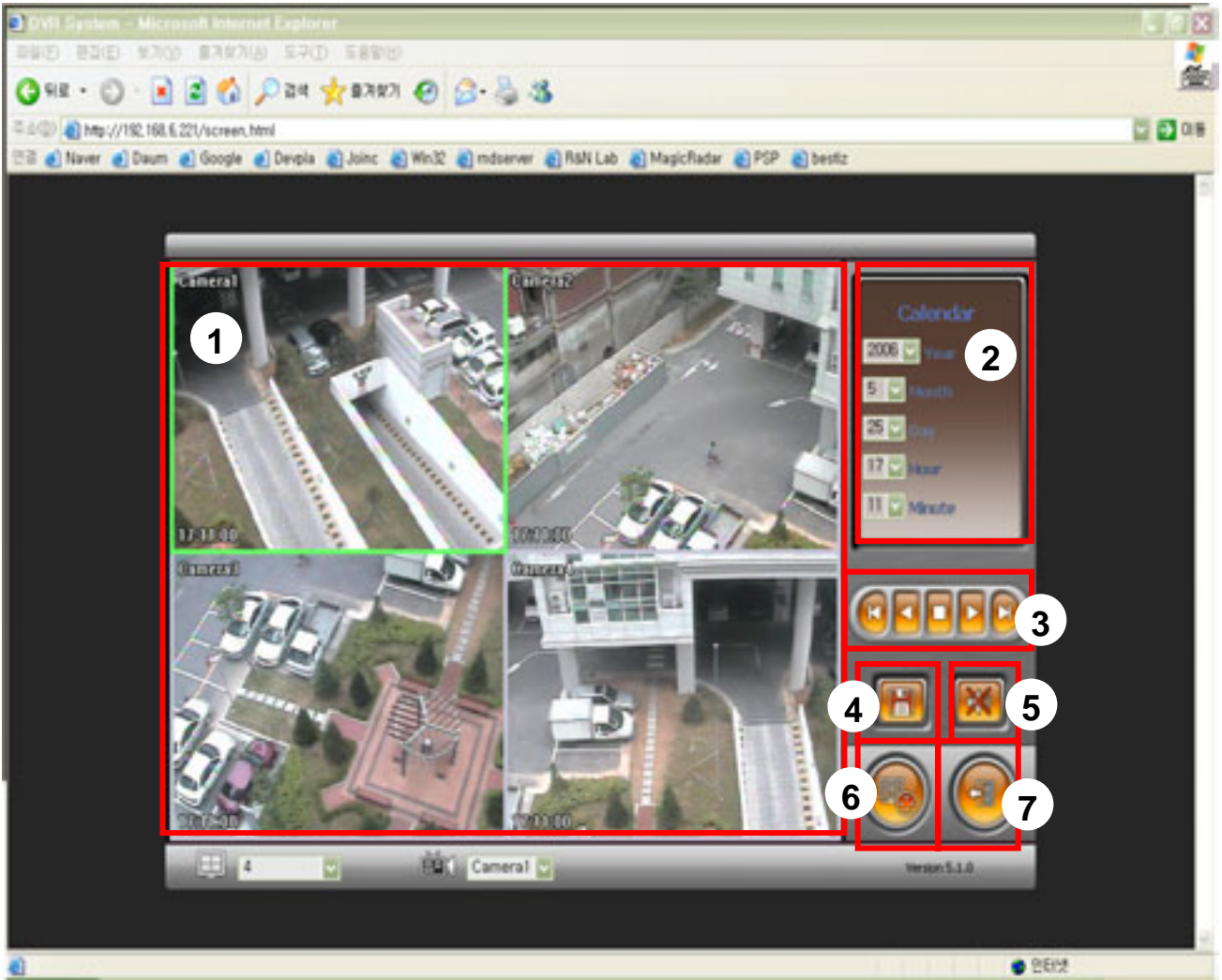
## (2) Using Web Browser



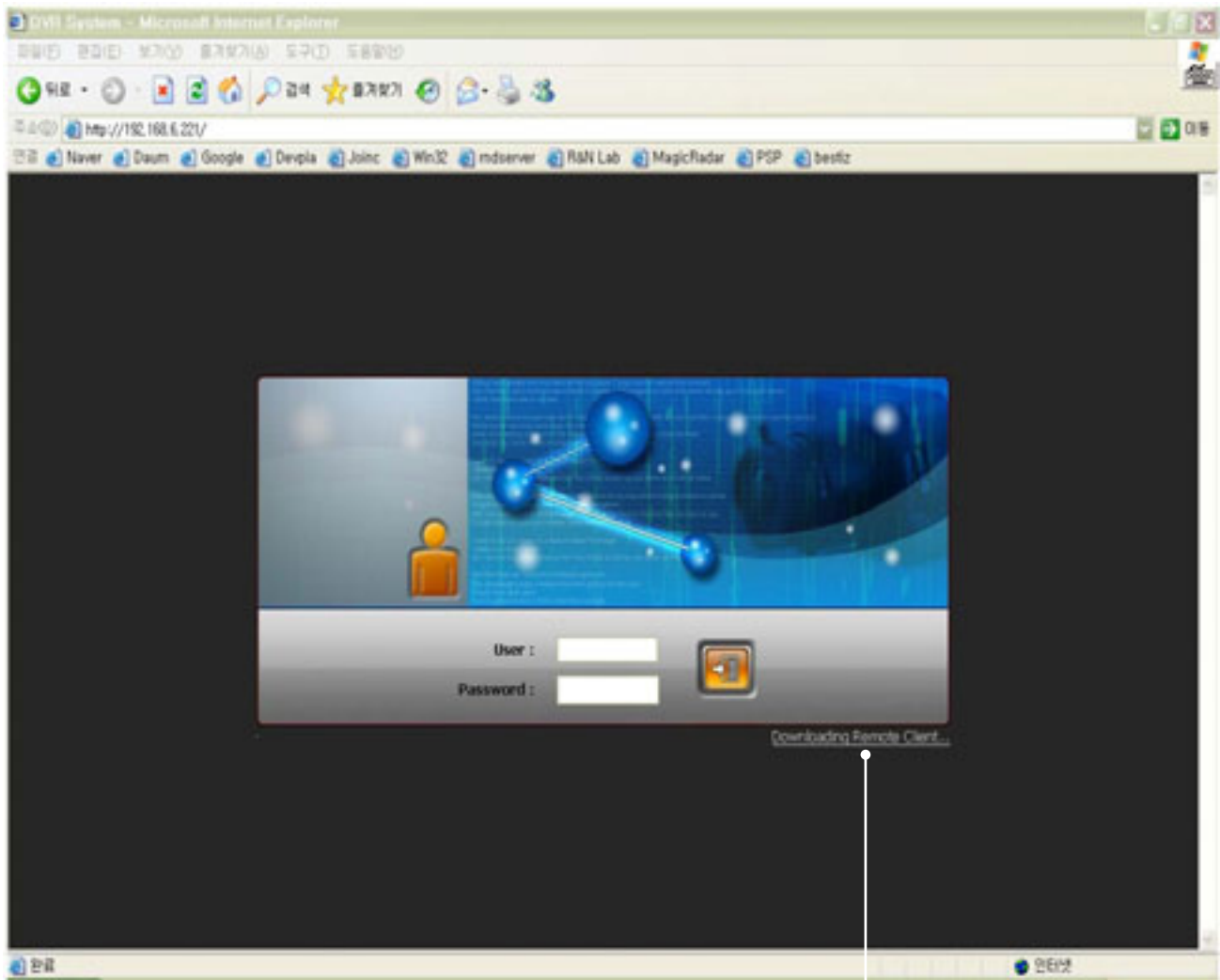
- 1. Type in the IP address of DVR server.
- 2. Log in first before downloading Remote Client Program.



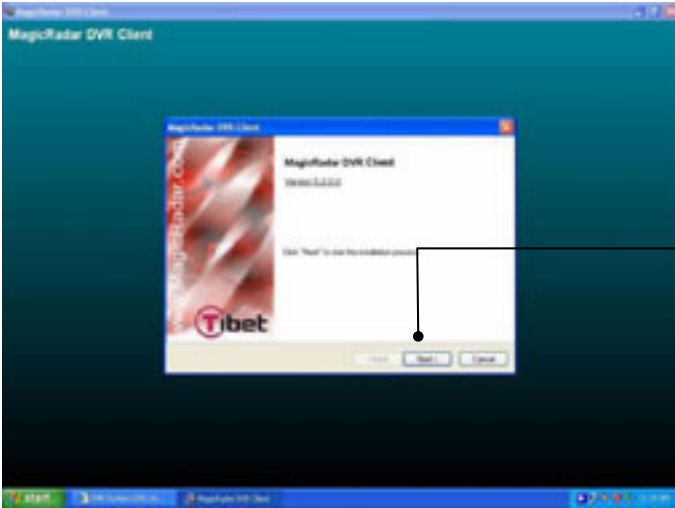
- 1, Live View
2. Screen splits and channel selection
3. PTZ control : Only users with proper authority to control PTZ remotely.
4. Advanced: Controlling preset, tour and E-map only for authorized users.
5. Speed: PTZ speed control
6. To save live image to JPEG
7. To listen Audio of a selected channel applied only for authorized user remotely
8. Mode change between Live and Search
9. Log In/Out or EXIT
10. Display web browser information.



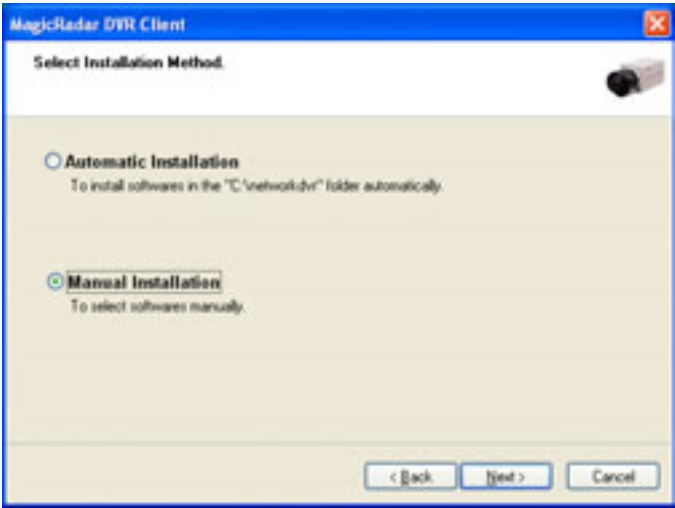
- 1, Searched Image
- 2. Selection for image search
- 3. Play back(Fast back, Back, Stop, Play, Fast Play)
- 4. Save: AVI, JPEG, BMP
- 5. Audio
- 6. To change Tab to CONTROL
- 7. Log out and go back to LOG IN page



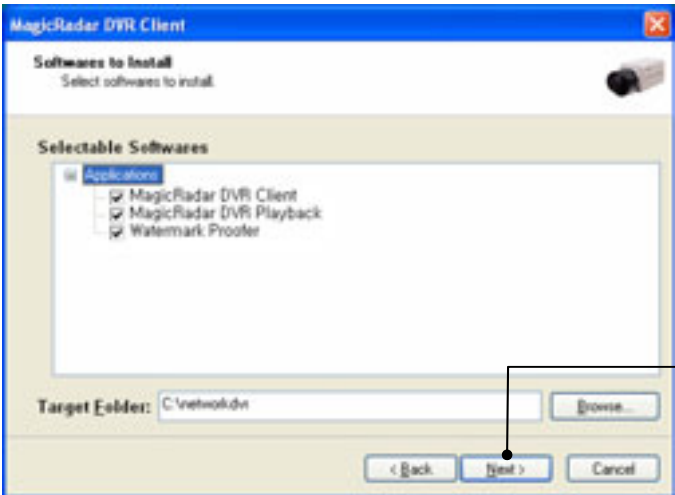
1. Click the "Install Remote Client" button for downloading.



2. Click "Next" to proceed.



3. Select "Manual Installation".



4. Click "Next" to finish installation process.

## 4. Uninstallation



## 5. Program Execution

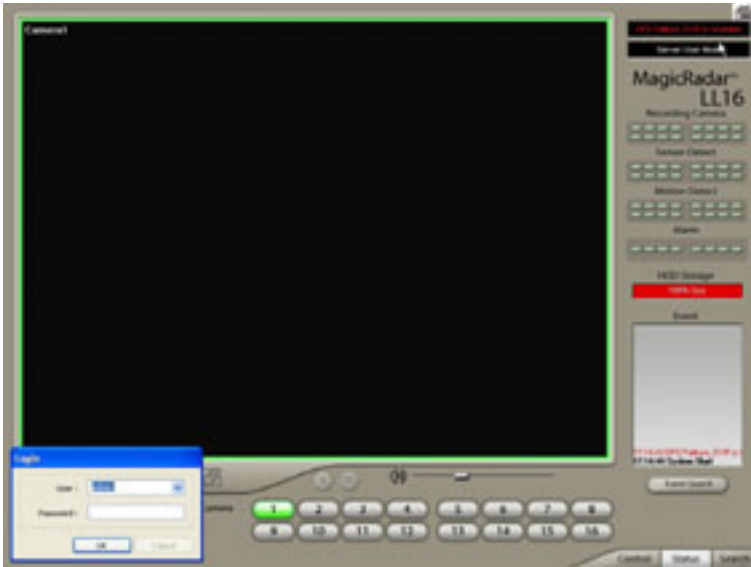


Find the icons on the desktop to execute “MagicRadar DVR” and “MagicRadar DVR Client”. Or find “MagicRadar DVR” under “All Programs”.

# CHAPTER 3

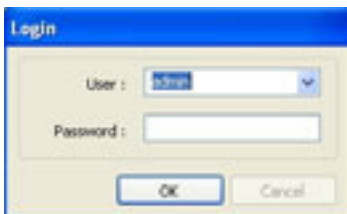
## Main System Application

### 1. Startup Screen



The above screen will appear as MagicRadar DVR system starts.

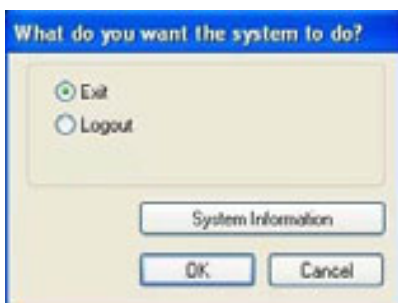
### 2. Login



The default values for User and Password are “admin” and “no password”. Click “OK” to execute MagicRadar DVR system. To give “admin” a password and to create new users, certain configurations are required (Setup/User). Only “admin” and users with appropriate authorization have access to the Setup menu.

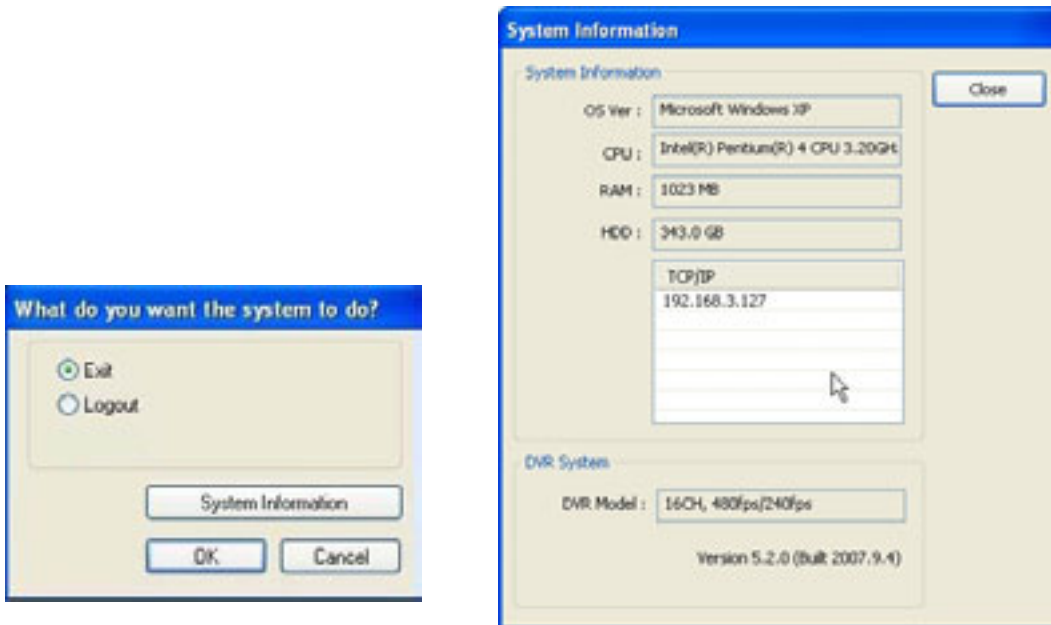
**Note:** Virtual keypad is available on the right top of GUI if needed

### 3. Exit/Logout



To end MagicRadar DVR system, select “Exit” and type in password.

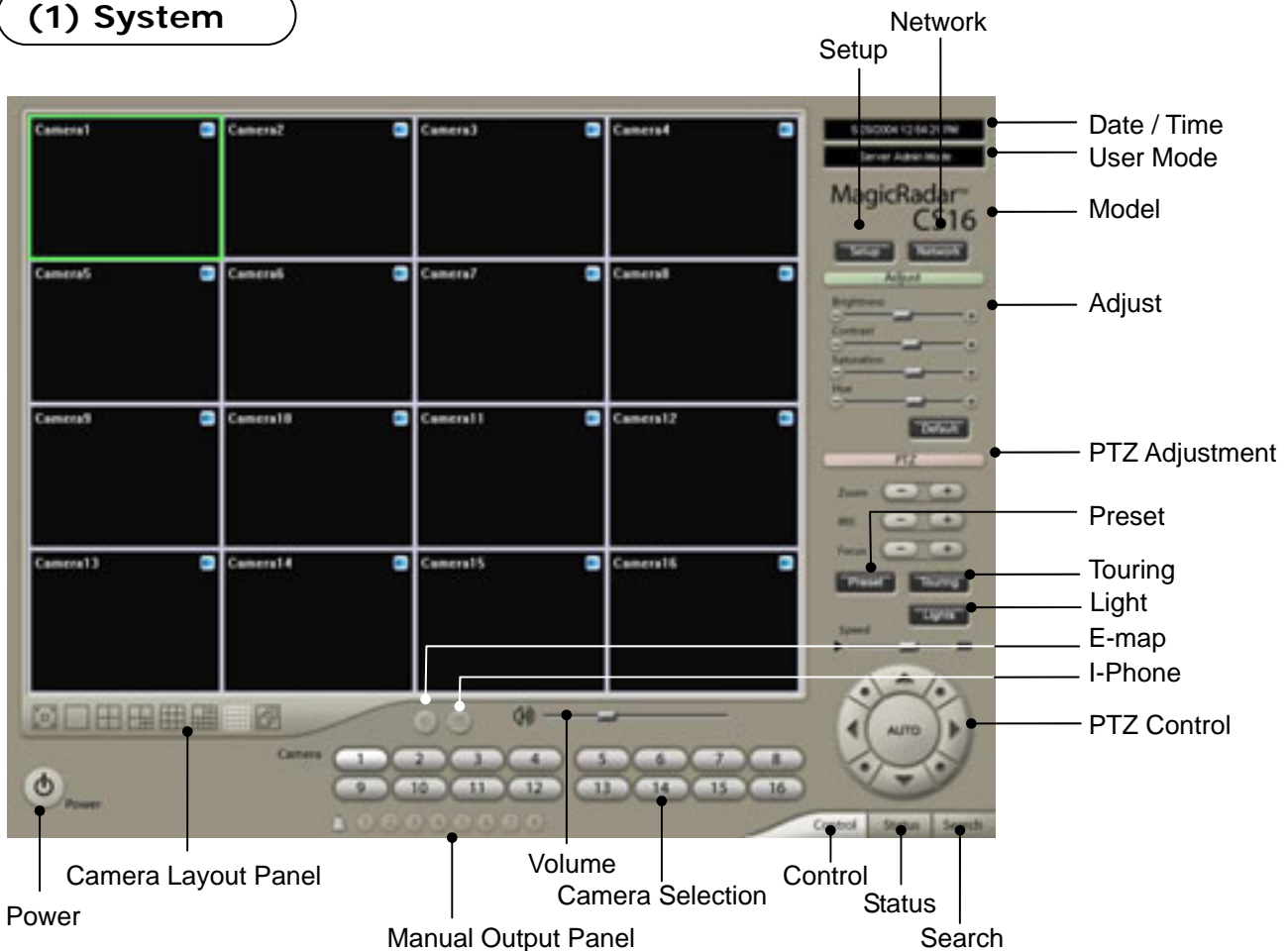
## 4. System Information



Click on System Information to see DVR system information, such as OS version, CPU, RAM, HDD, IP address, DVR model and DVR software.

## 5. Control Screen

### (1) System



## ● Channel Relocation



Camera location can be changed by drag & drop

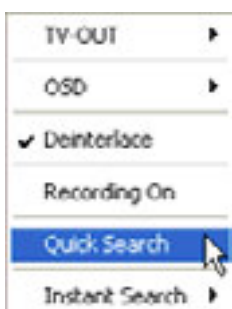
### How to configure channel by drag & drop:

1. Select channel: click mouse button.
2. Hold on mouse button and drag over to target channel
3. Release mouse button over the target channel.
4. You will see the location of channel has changed on  
(Refer to above picture)

**Note:** LS/LD series doesn't support drag & drop function.

### (2) Right click menu on screen

On control tab, click right mouse button to open shortcut menu.



**TV-OUT:** link to TV-OUT directly by selected channel.

**OSD:** Enable/Disable OSD on screen. (Camera Information/Detection Zone)

**Deinterlace:** Select to remove interlace on screen.

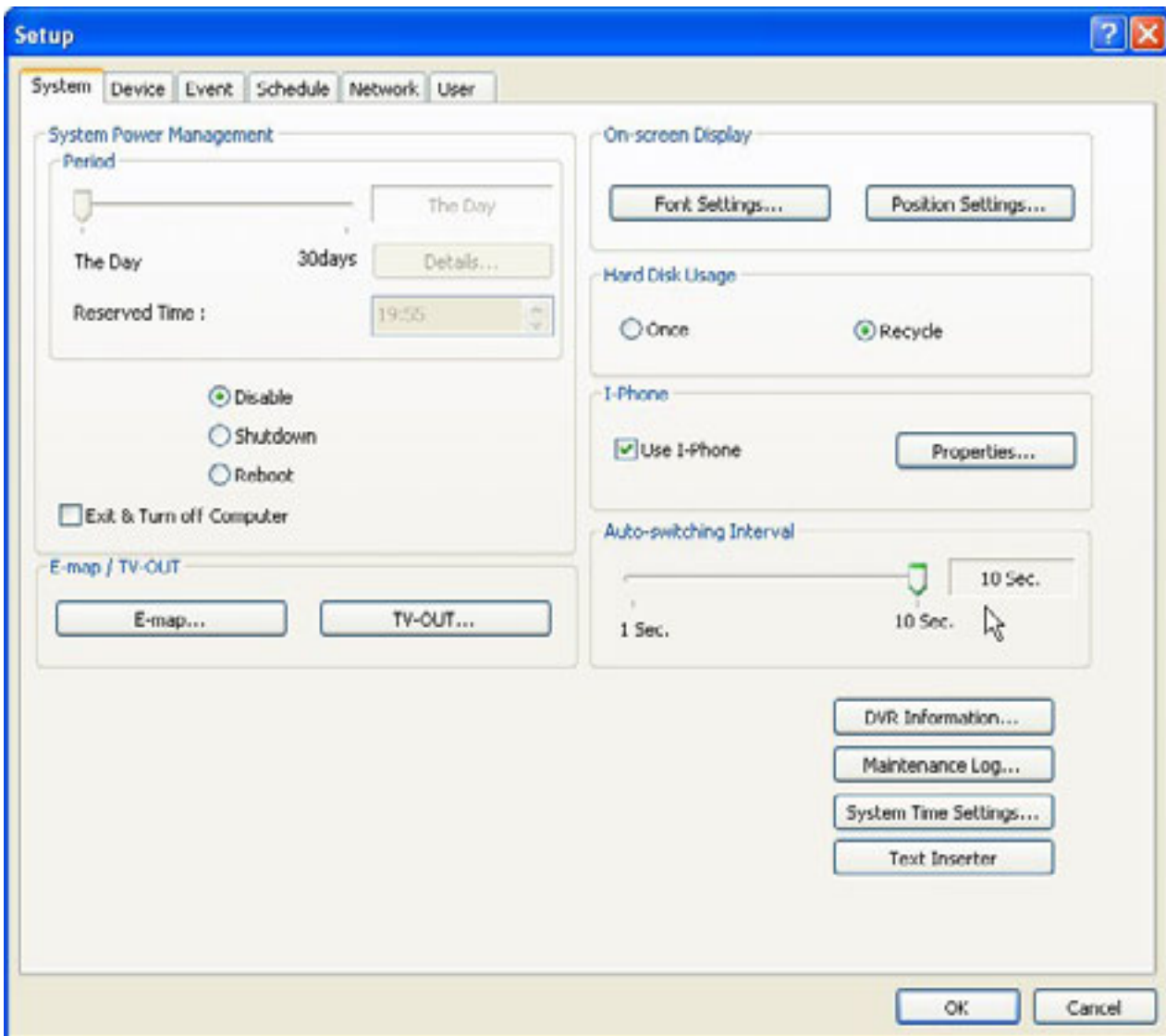
**Recording On:** Enable force recording on selected channel

**Quick Search:** Playback selected channel by pop-up screen.

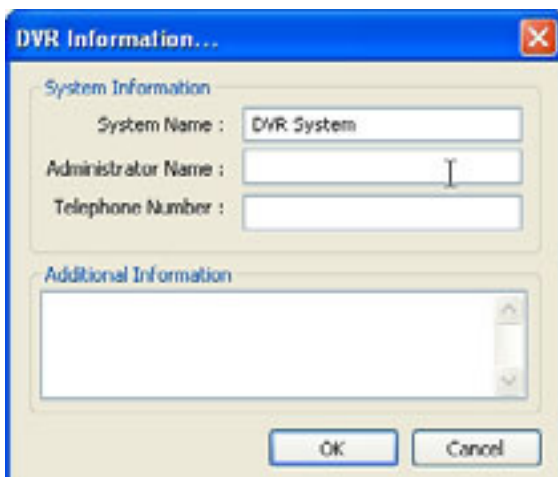
**Instant Search:** Playback selected channel on screen (before 10/20 seconds)

## 6. Setup

### (1) System

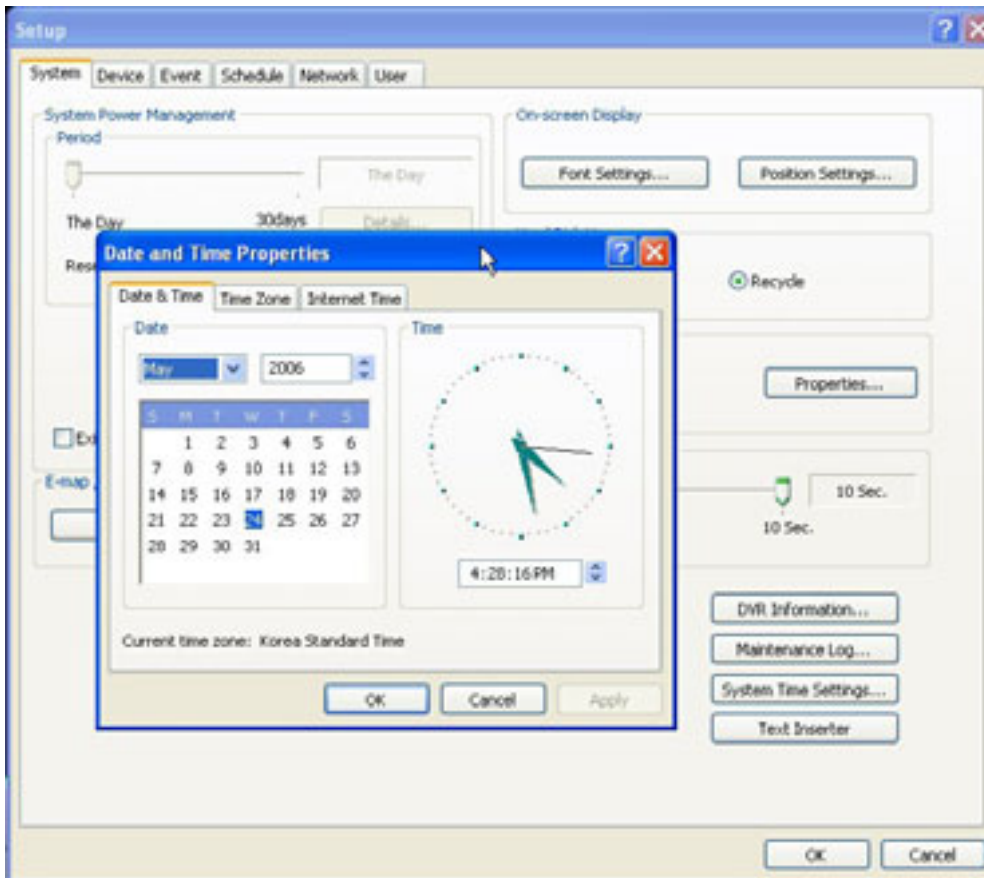


- **DVR information**

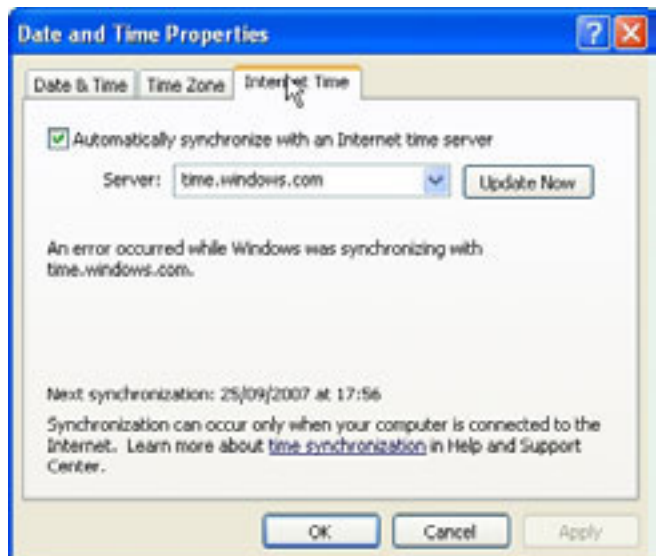
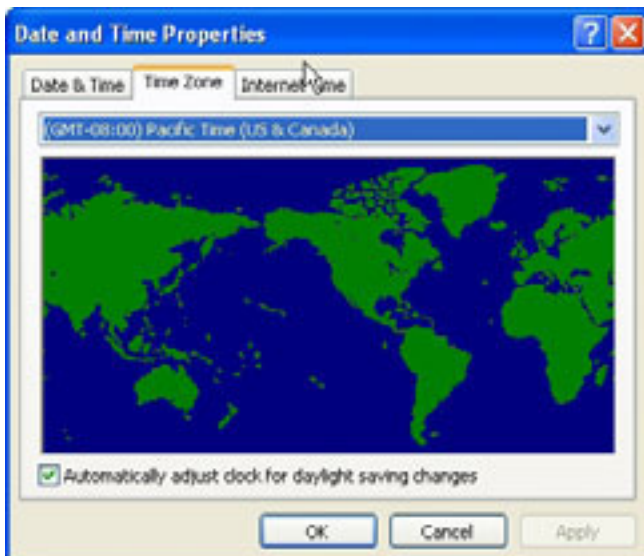


Create a system name and put in administrator info. They will be displayed on outgoing e-mails.

## • System Time Setup



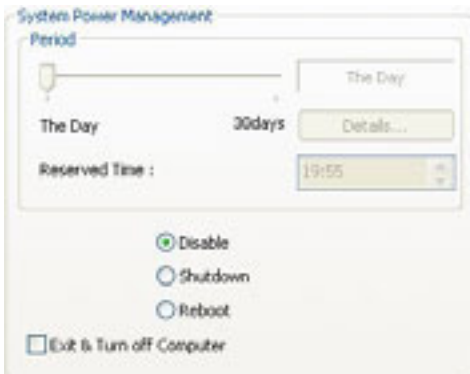
By clicking “System Time Settings”, user is able to set Date and Time in DVR software.



**Time Zone:** To change Current time zone in DVR system.

**Internet Time:** To synchronize with Internet time server automatically.

## • System Power Management



**Period:** Select a day that DVR system reboots automatically by the period.

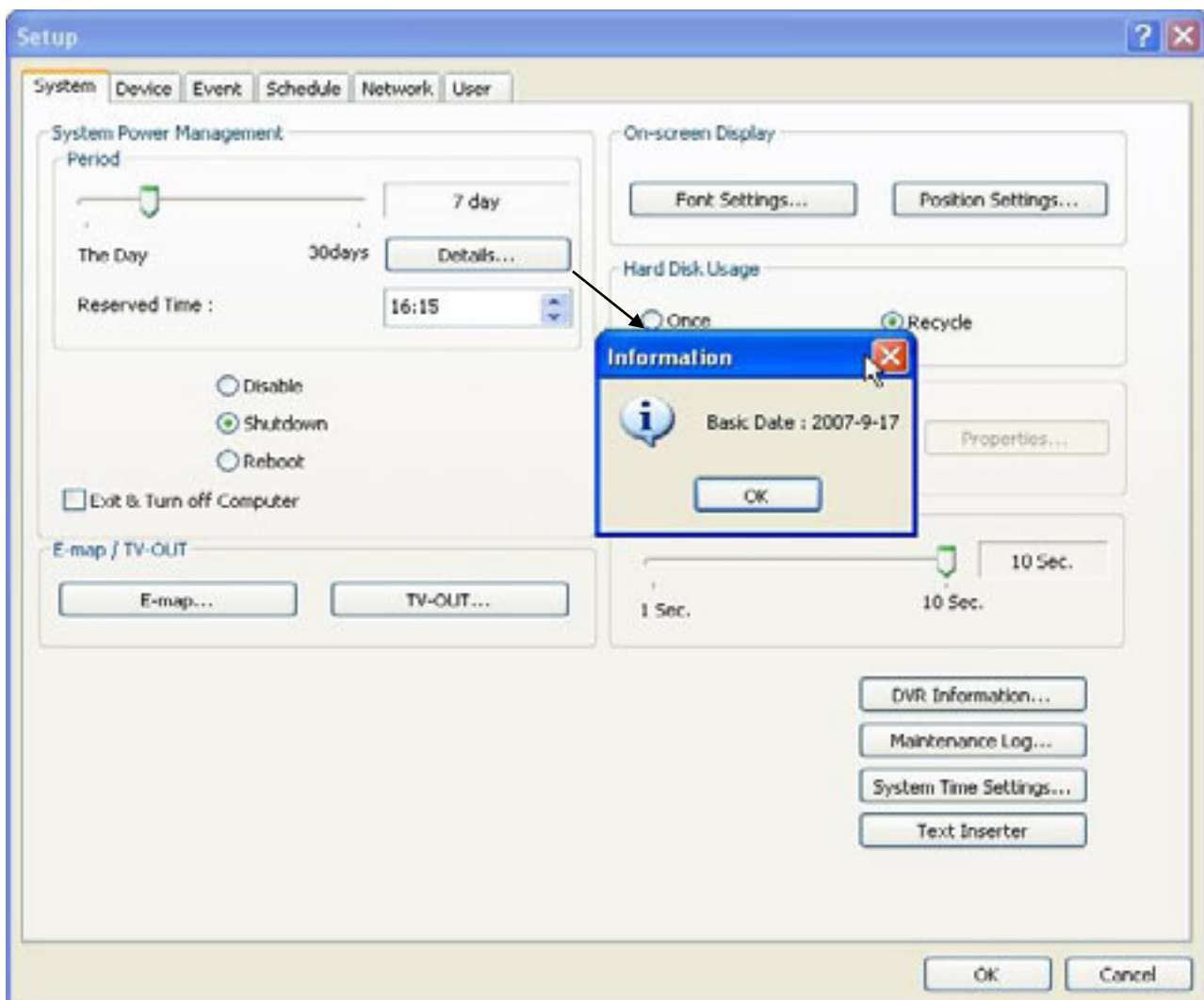
**Reserved time:** Time set to shut down or to reboot computer.

**Disable:** selected when System Power Management is not to be used.

**Shutdown:** selected when shutting down computer is required at the time set.

**Reboot:** selected when rebooting computer is required at the time set.

**Exit & Turn off Computer:** By checking the box, computer will be turned off automatically as a user exits from MagicRadar DVR system.

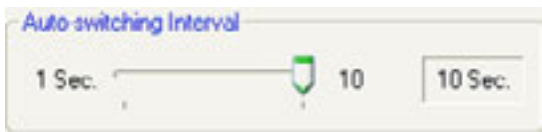


**Details:** First select either “Shutdown” or “Reboot” to enable Period.

For example in above picture, 7 days after the basic date, system will shutdown automatically.

“Details” shows the set date and it will be the starting point.

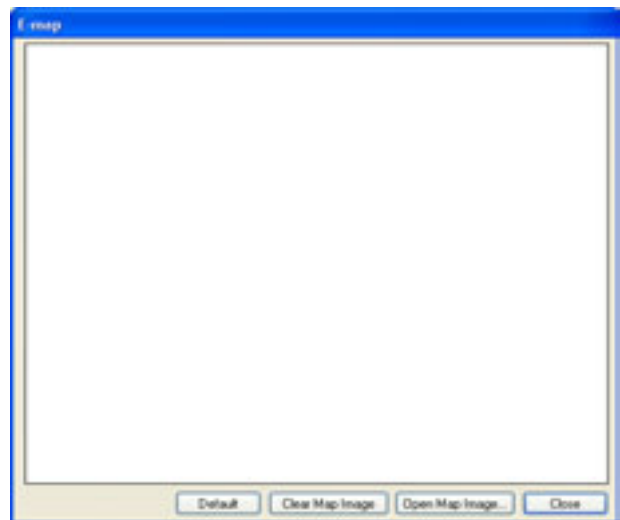
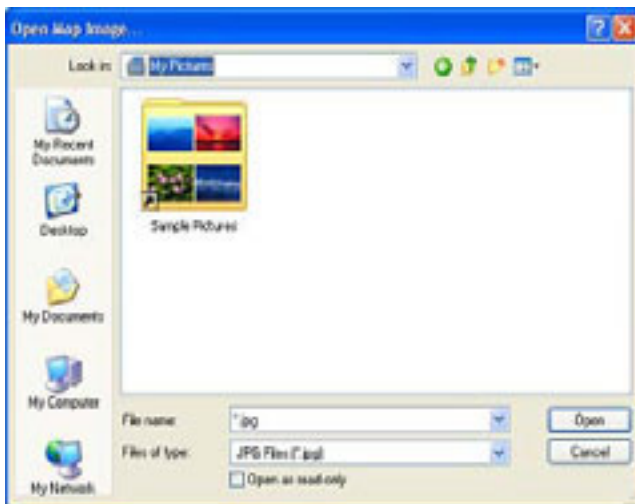
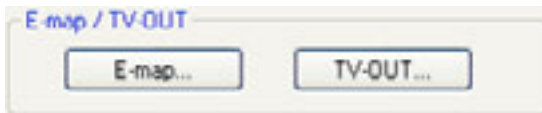
- **Auto-switching Interval**



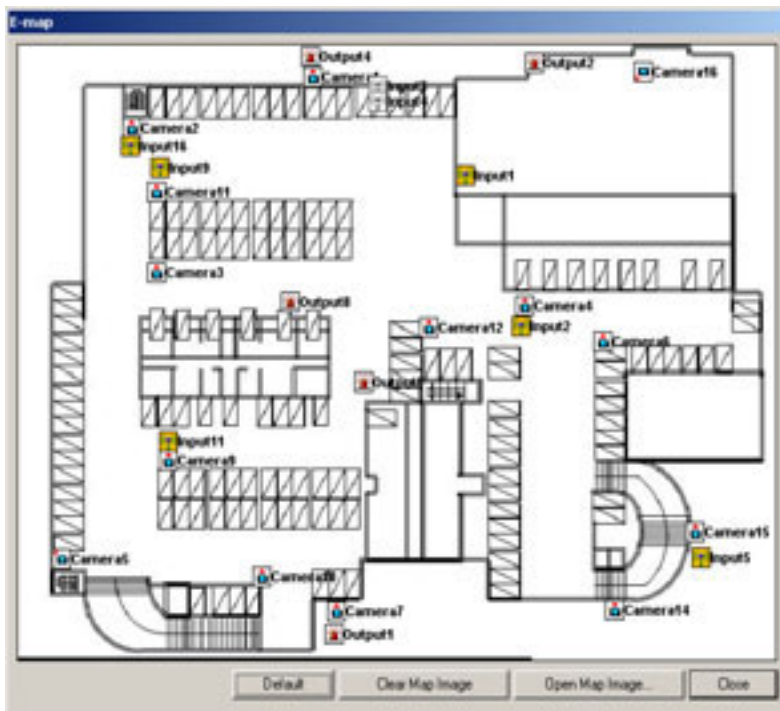
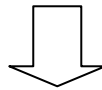
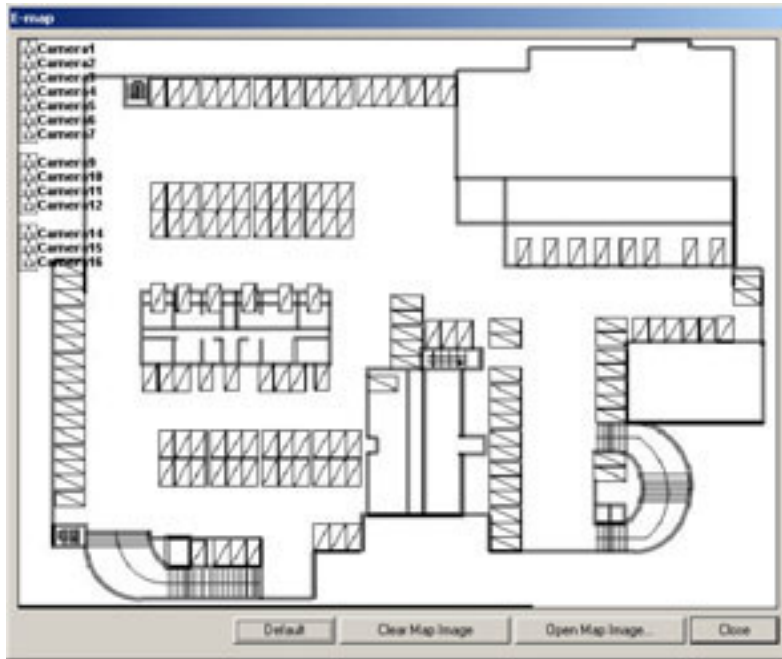
Auto-switching Interval is a function that allows green square around selected camera to move to the next one at the interval set.

e.g.) Camera 1→10 sec.→Camera 2→10 sec.→Camera 3...

- **E-map**



Click on the “E-map” button to design E-map.  
Click on “Open Map Image” to select an E-map image.

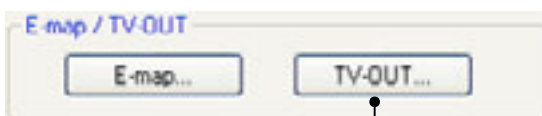


The above is a designed E-map sample.  
 Drag mouse to position Camera/Input/Output and design E-map.

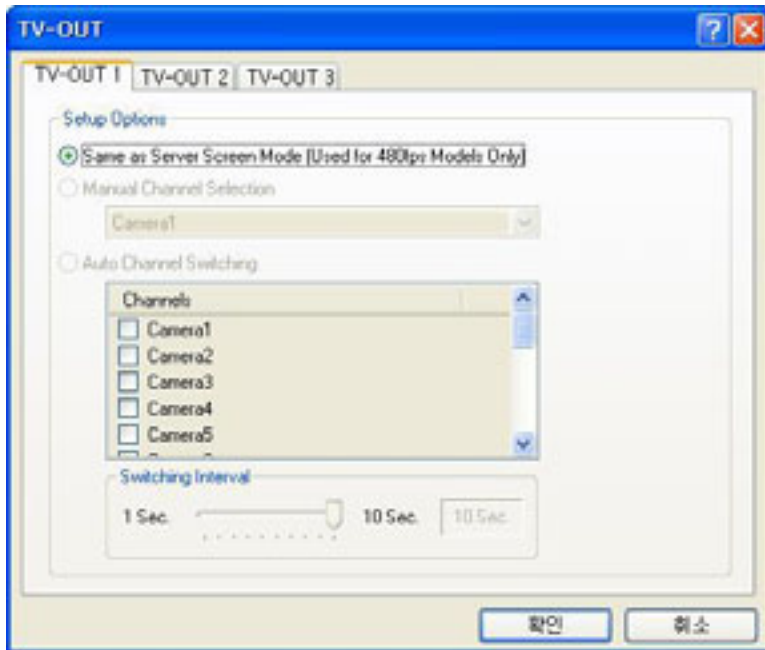


Click on the E-map button positioned next to the I-phone button to open E-map.  
**White Camera:** Not on Recording, **Yellow Camera:** On Recording,  
**White Input/White Output:** Not Activated, **Yellow Input/Yellow Output:** Activated

## ● TV-OUT



TV-OUT is a function that sends selected cameras to a call monitor (external analog monitor).  
 Click on the "TV-OUT" button for setup.



### The Number of TV-out Supported

T04	T08	T12	T16	CS04	CS08	CS16	CD16	CD08	LS16	LD16	LL16	LL32
1	2	3	4	1	1	1	2	2	2	3	2	2

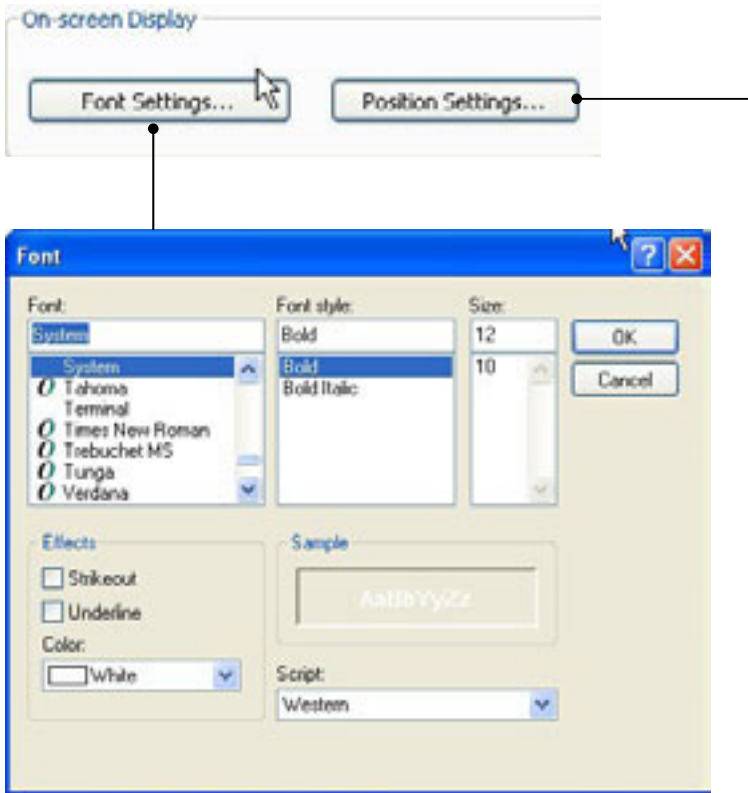
The models such as CD (240FPS/240FPS), LS(480FPS/120FPS), LL16(480FPS/480FPS), and LL32(960FPS/480FPS) support 2 TV-OUTs. LD16 (480FPS/240FPS) support 3 TV-OUTs and the rest of the models support 1.

### Setup Options:

1. Same as Server Screen Mode  
( For LS16, LD16, LL16 and LL32 only) - TV-OUT Monitor displays what's on DVR server.  
Manual Channel Selection - Channels are selected manually. Once "Manual Channel Selection" is selected, channels can also be selected manually on Control screen by placing mouse on camera picture and clicking the right mouse.
2. Auto Channel Switching - Selected channels rotate to display at the switching interval set.

**Switching Interval:** The length of time to stay at one camera

- On-screen Display



**Font Settings:** Font change on screen display.



**Postion Setting:** Position change on screen display.

On a camera screen, you may click one right mouse to control OSD as below.

**Show Camera Names and Status:**

By checking it, camera names and status will be displayed on camera pictures.

**Show Motion Detection Blocks:** By checking it, green motion detection blocks will be displayed on camera pictures when recording schedule is set as "M" (Setup/Schedule).

**Show Object Detection Blocks:** By checking it, blue object detection blocks will be displayed on camera pictures.

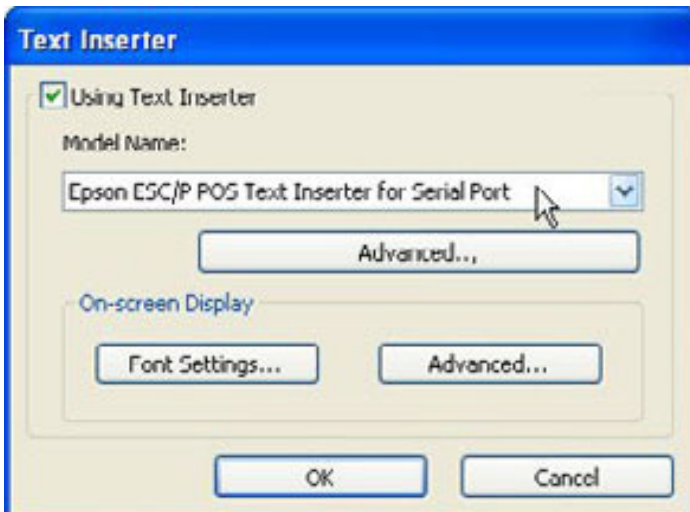


**Note:** One right mouse click can be a very useful tool. Manual TV-out and OSD setup can be done. Additionally, instant recording can start by one click.

## • Text Inserter

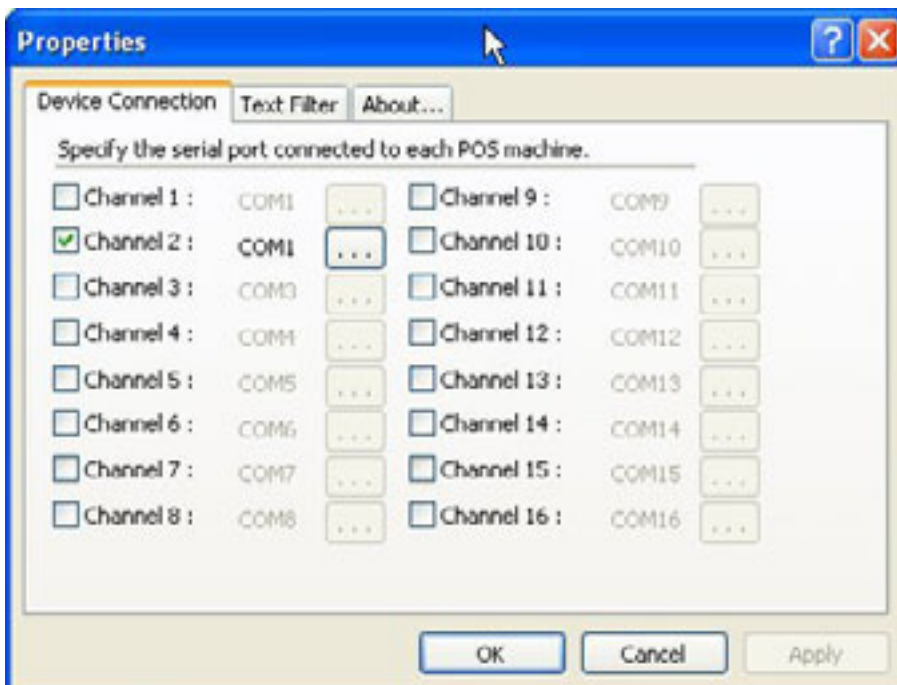


Text Inserter is a function that allows MagicRadar DVR system to integrate with POS machines. Simply select POS driver like selecting PTZ driver to enable POS text inserter program and transactions that occur will be displayed on selected camera pictures. Transaction recording and text search are possible as well. For more detailed installation and information, refer to Appendix 1.

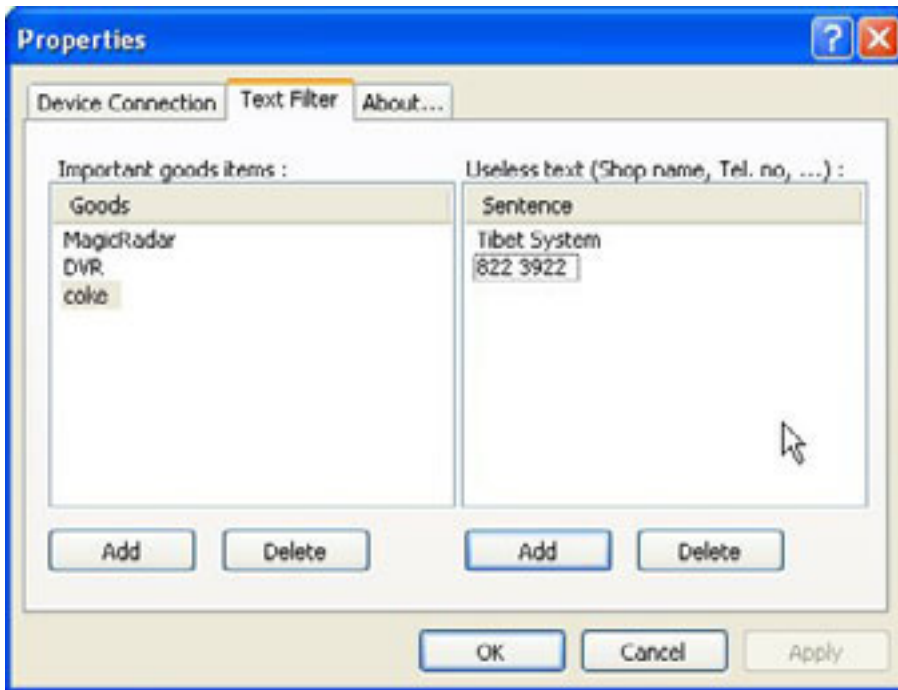


### How to Set

1. Tick the "Using Text Inserter"
2. Choose a connected POS driver.  
(POS driver is addable as PTZ protocol adding.)
3. Click on Advanced to set hardware feature.



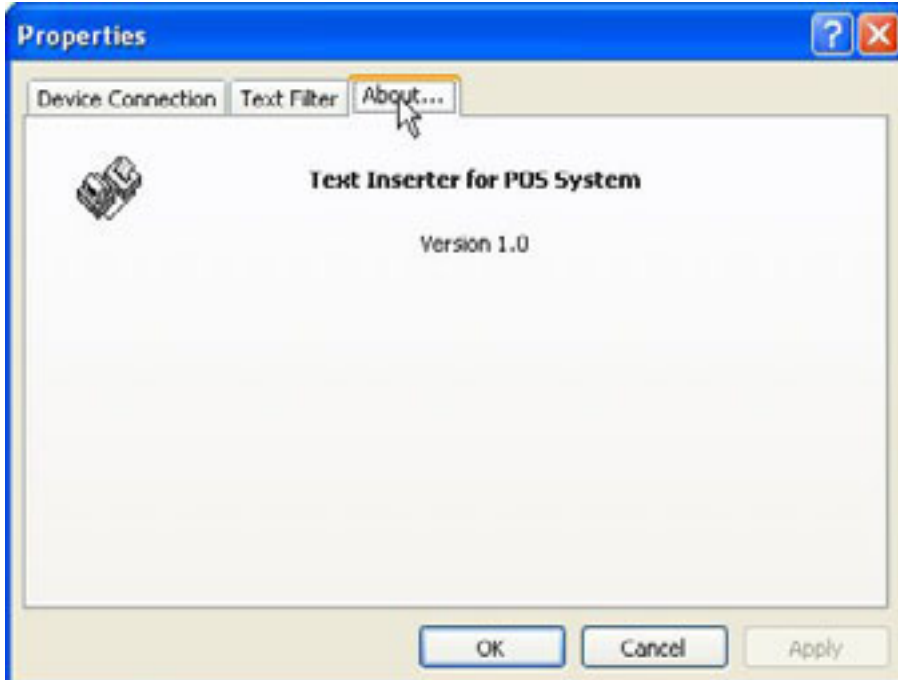
**Device Connection:** Select camera(s) and a comport connected with POS system(s)



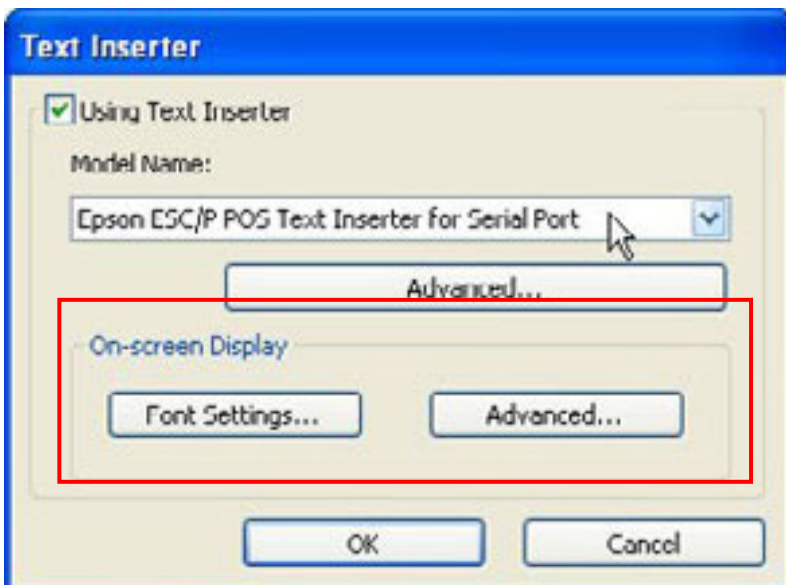
**Text Filter:** Register important goods and useless text to display distinguishably and search POS data conveniently.

**Important goods items:** Pre-registered items will be displayed in red characters.

**Useless text:** It is not going to be displayed during transaction.



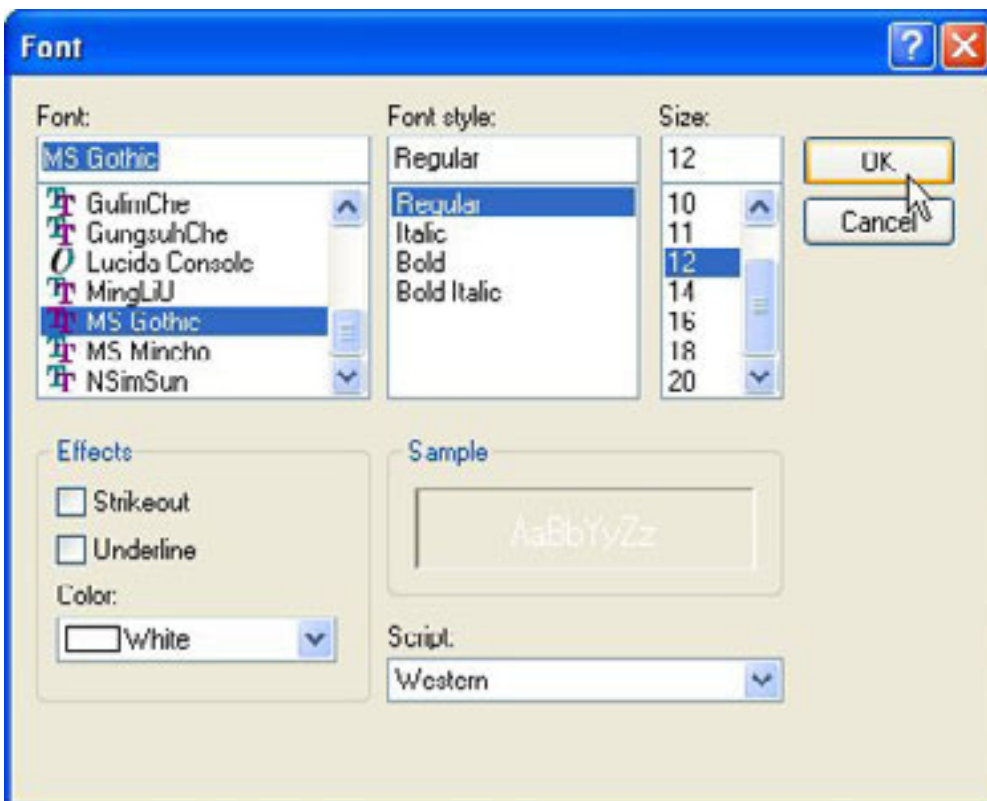
**About:** Shows POS S/W version.

**Font Settings:**

Font change on screen display.

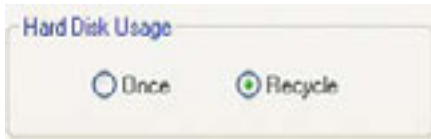
**Position Setting:**

Position change on screen display.

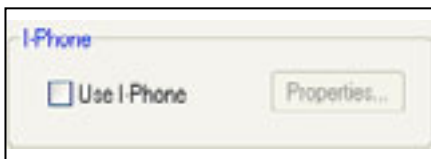


## ● Hard Disk Usage

Hard Disk Usage is to select data storage method. If “Once” is selected, data will be stored up to the point where HDD reaches its maximum capacity. If “Recycle” is selected, data will be overwritten from the point HDD reaches its maximum capacity based on “First In First Out”.



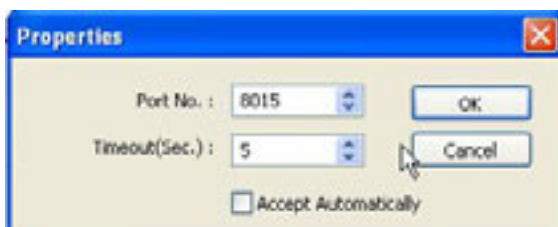
## ● I-Phone



I-Phone is “Two-Way Audio Communication”.

Check the box, go to Control Screen, and click on the I-Phone button for audio communication.

For more detailed I-Phone setup, refer to Appendix 2.



### Port No.:

A port number for I-Phone use has to be set up. Normally the default value is good to use.

**Timeout:** It indicates the maximum length of connection trial. If there is no response within the value set, call will be cancelled.

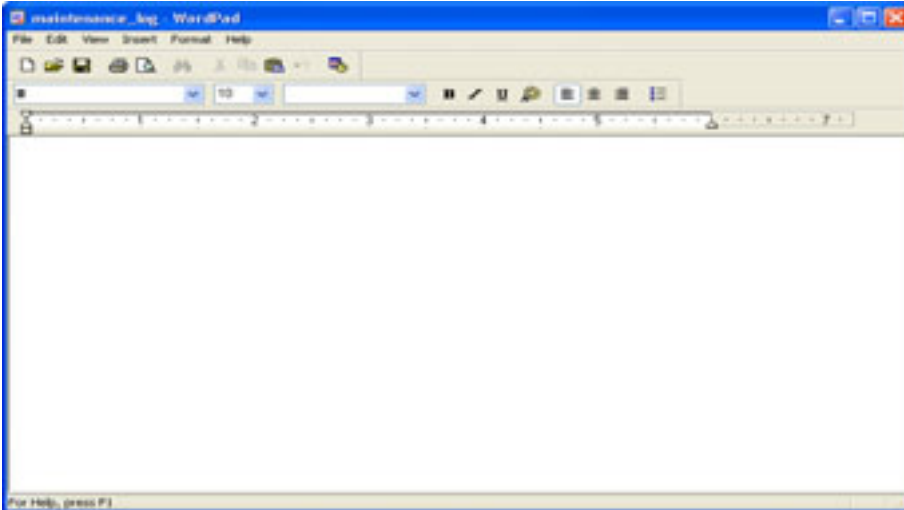
### Accept Automatically:

To accept counter part's IP-phone connection without checking a confirmation message.

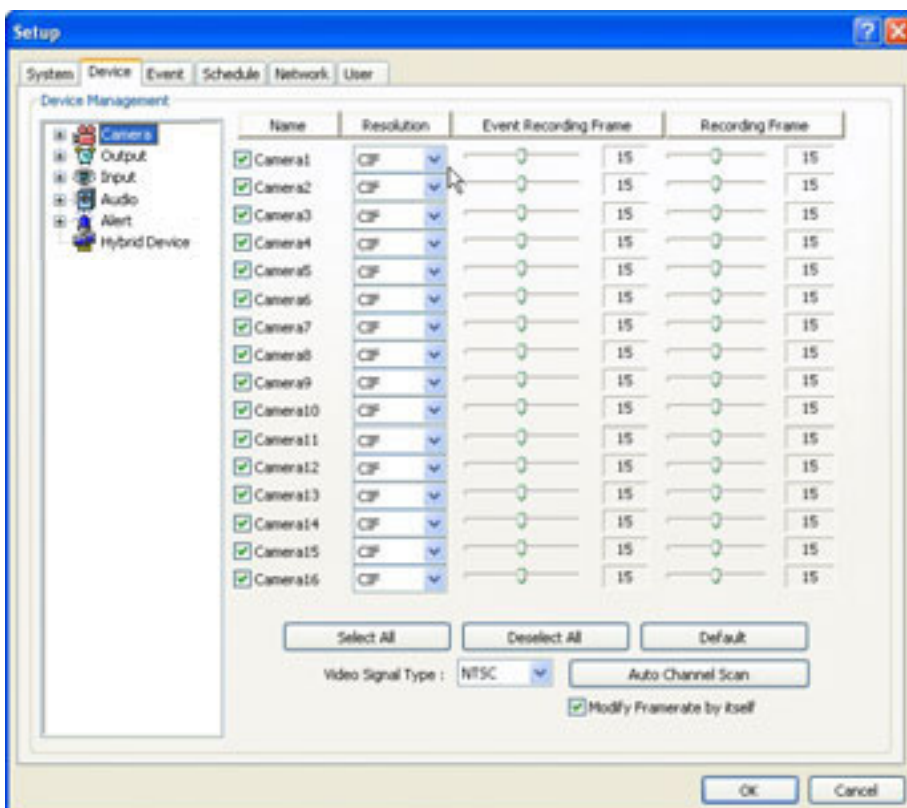
## ● Maintenance Log

It is used to record and view maintenance history.

Maintenance Log



## (2) Device



Device sub-screen is divided into 5 different setup categories; Camera, Output, Input, Audio Alert and Hybrid Device. (Hybrid Device category is added by 5.3.1.0 or higher version. To integrate Hybrid device on 5.3.0.0 refer to "Hybrid DVR Installation Guide")

All devices in each category can be set up on one same page.

## ● Camera

Cameras will be enabled by checking the boxes.

Different resolutions and recording frame rates can be set up for different cameras.

### Video Signal Type:

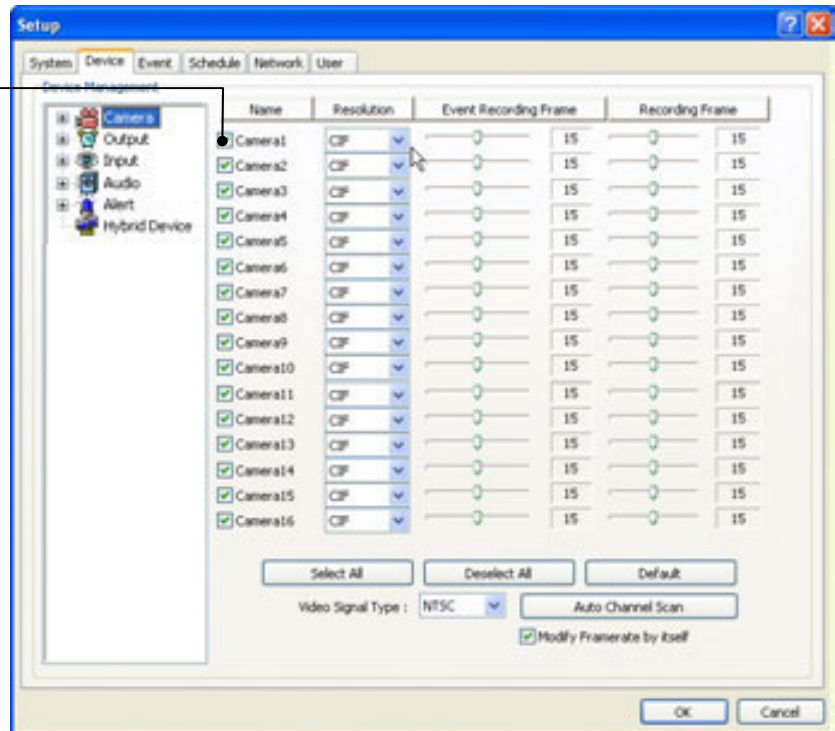
Select either NTSC or PAL.

### Auto Channel Scan:

It automatically identifies all the active video channels. Make sure to always click and scan after S/W version change.

### Default:

It sets "Event Recording Frame" and "Recording Frame" as default values.



## [Camera]

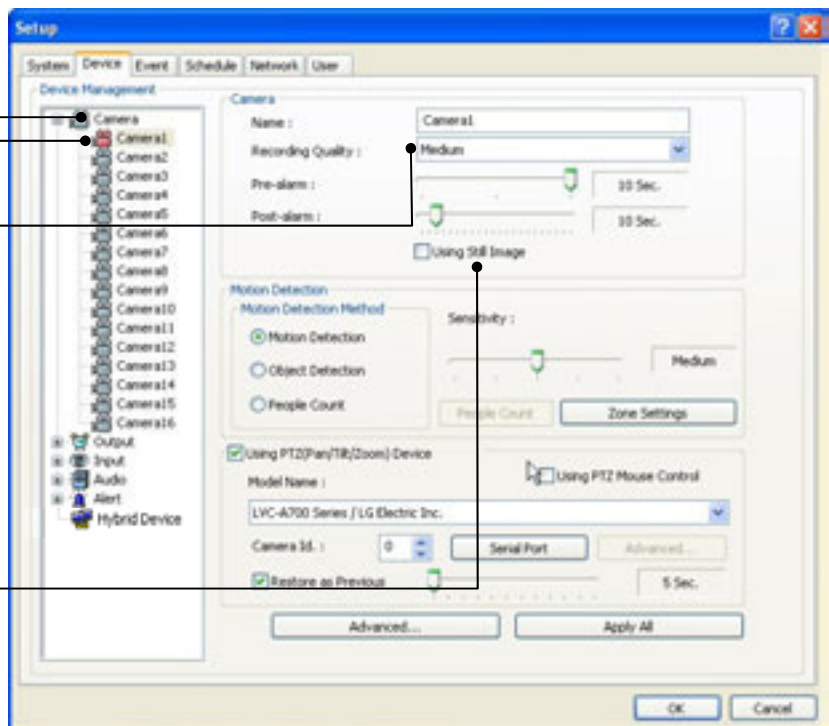
Double-click on "Camera" for more individual Camera setup.

Select recording picture quality.

### Using Still Image:

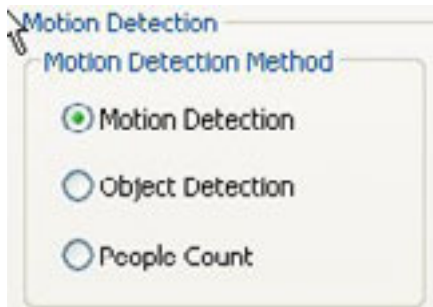
It is a function that captures still image when Recording schedule mode is set as E or H.

(Caution) Under R mode at Recording schedule, this function stop recording the channel.

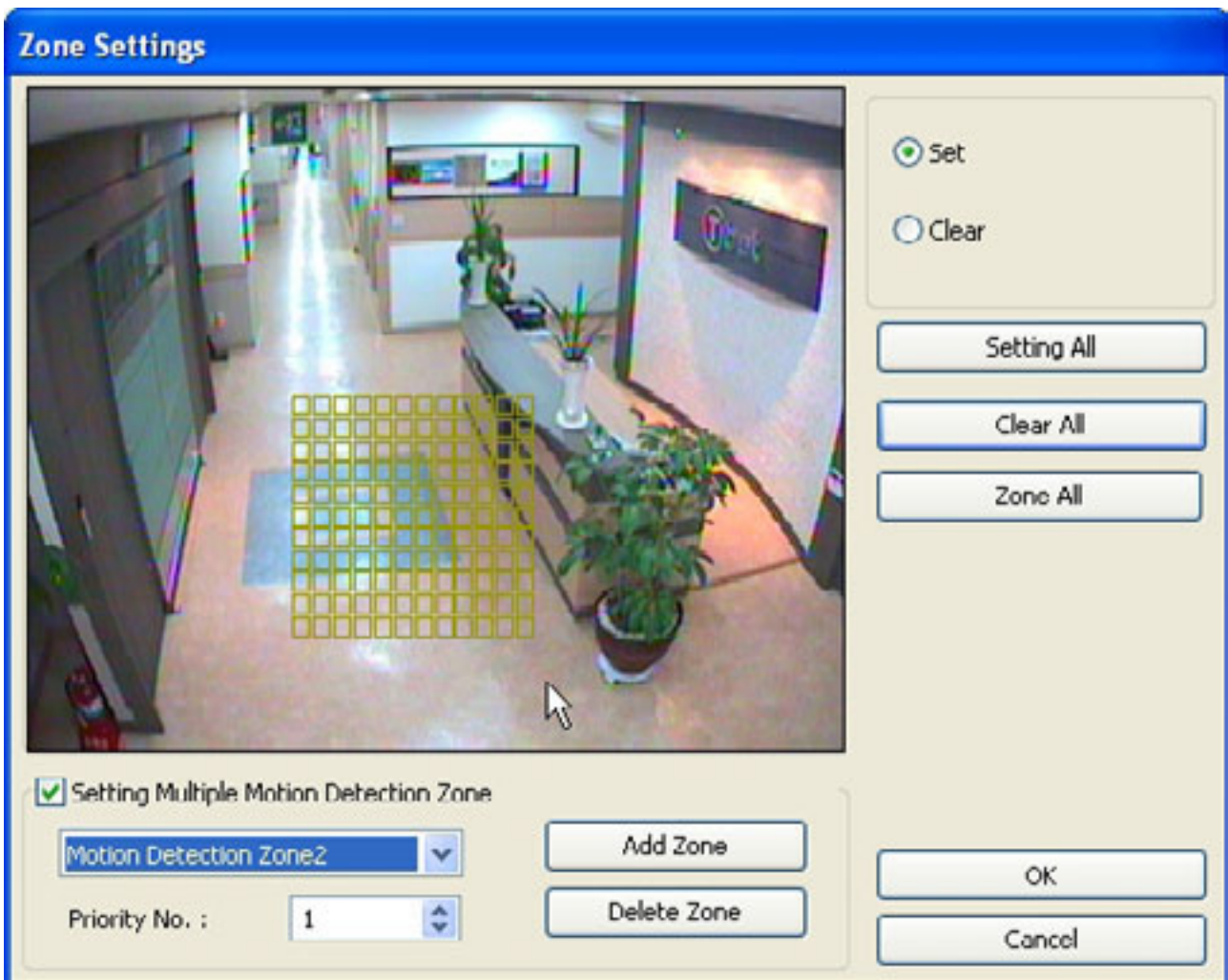


**Pre-alarm (max. 10 sec.):** Length of time to be recorded before event

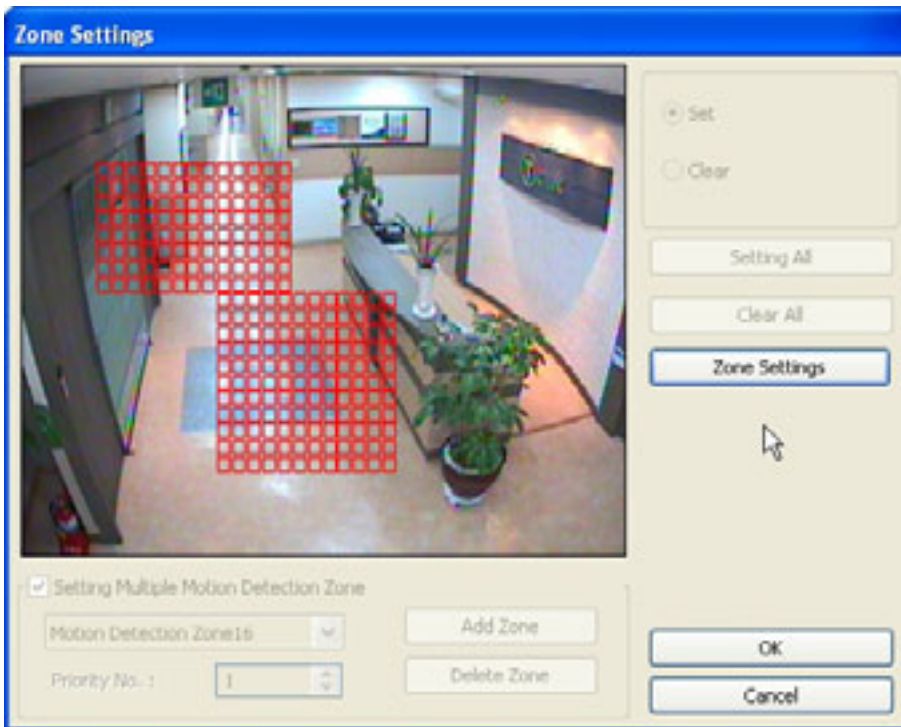
**Post-alarm (max. 10 min.):** Length of time to be recorded after event

**[Motion Detection]**

Select a function between Motion detection, Object detection and People Count. Motion detection is a function that DVR software detects every movement or motion by comparing a frame with its previous frame.

**Zone Setting:**

1. Drag mouse on desired place to set motion detection zones.
2. To clear the zones set, click on "Clear all" or drag mouse after click on "clear".



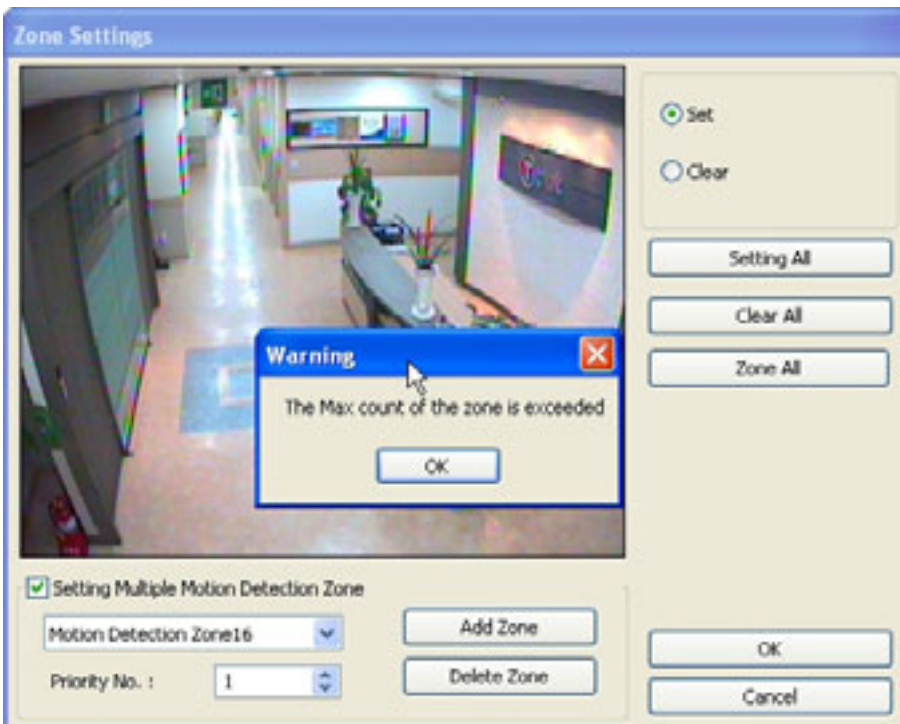
### Setting Multiple Motion Detection Zone:

To set more than one motion detection zone.

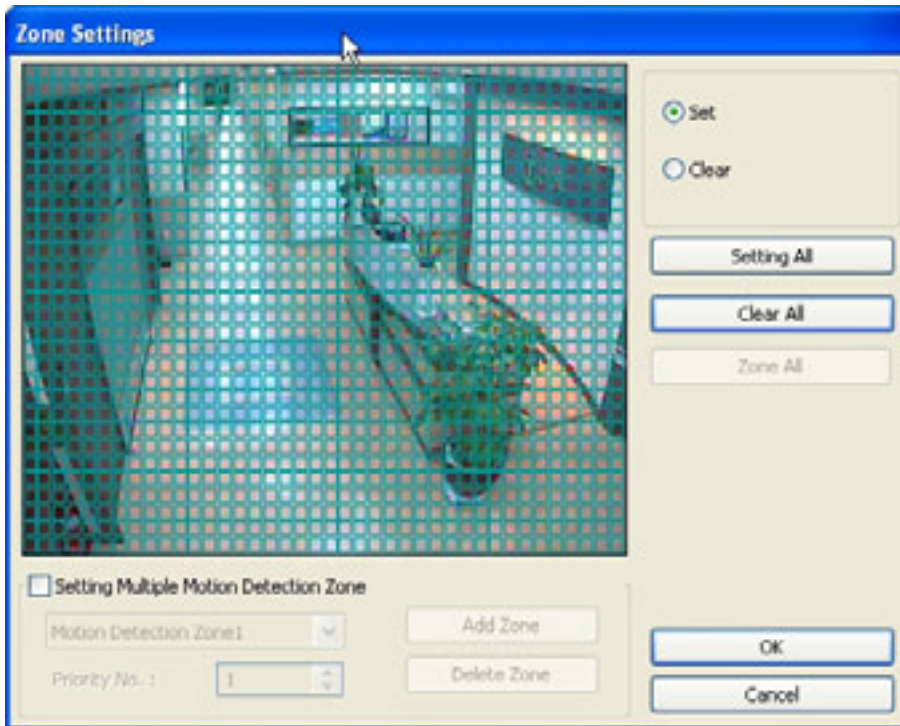
Possible up to 16 motion detection zones with all different colors.

### How to set:

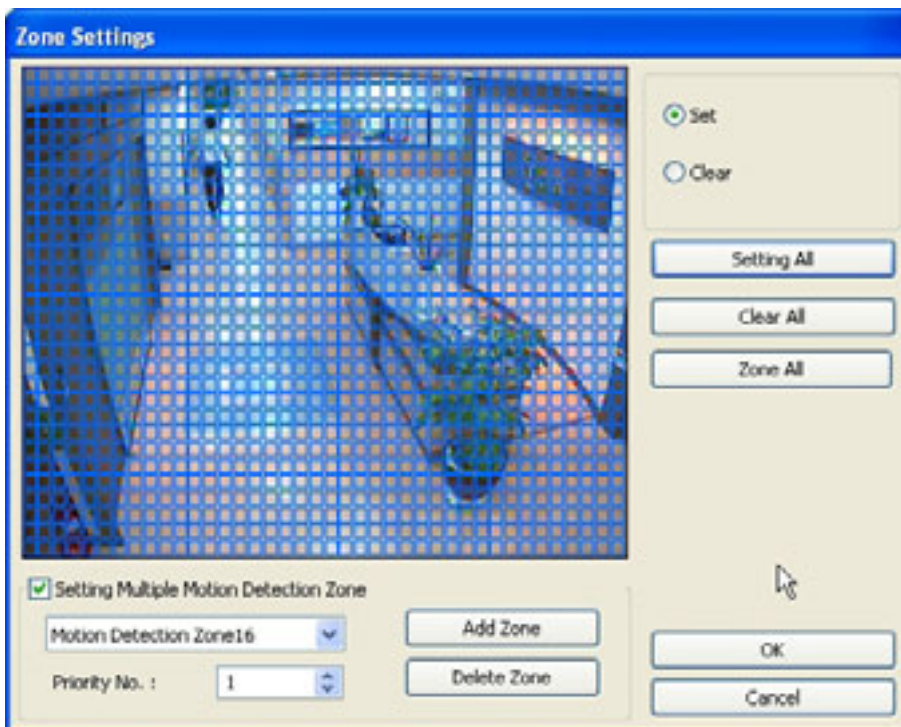
Click on "Add Zone" and select another zone desired to be detected.



**Note:** If the number of zones exceeds 16, above error message will be appeared.



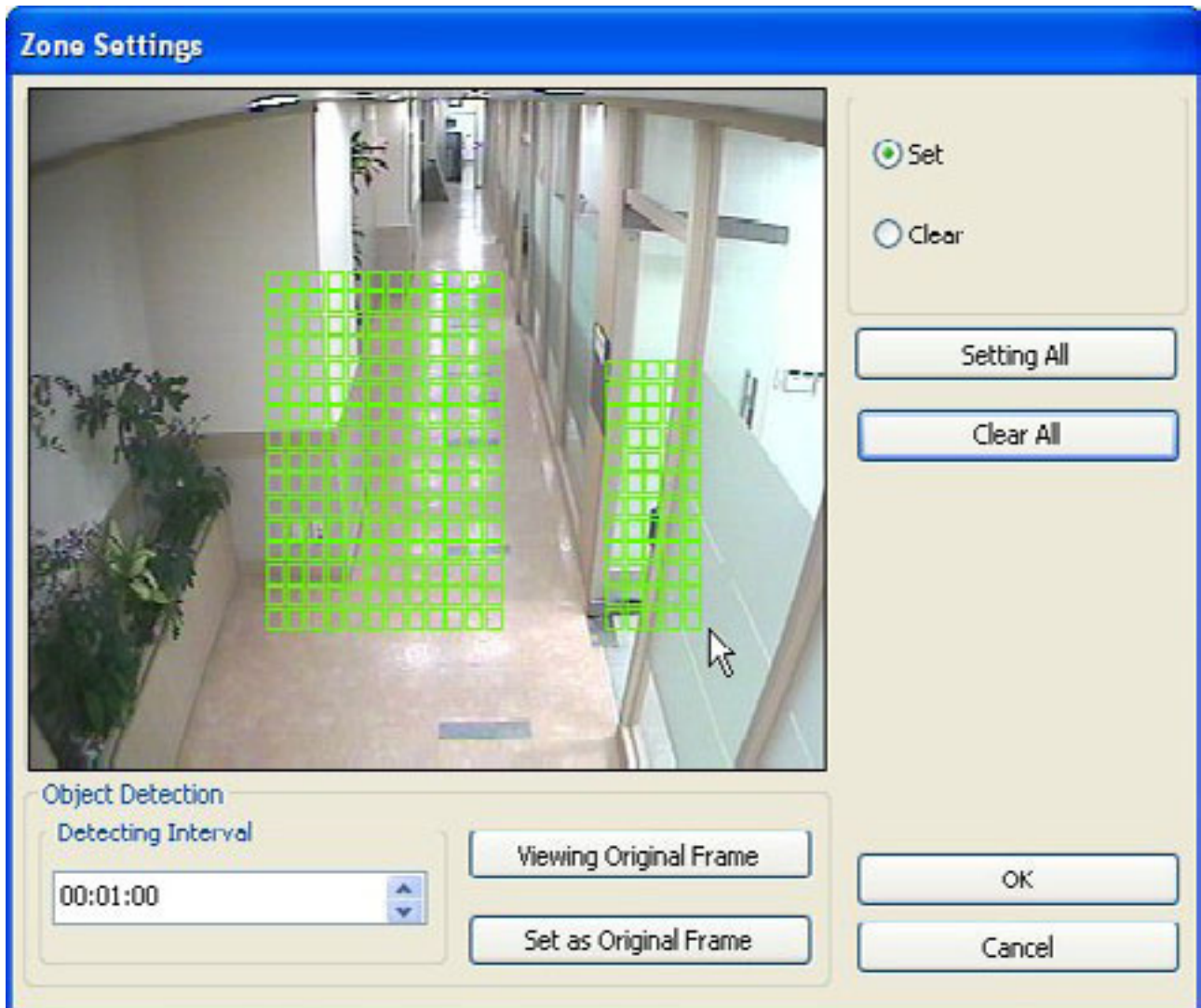
**Zone All:** Displays all areas together that have been set for the zones.



**Setting All:** Selects whole area

**Delete Zone:** Deletes zones one by one.

## [Object Detection]



It is a function that marks all the changes occurred from the original scene.  
 MagicRadar will detect new & missing objects after a certain period of time (detecting interval).

**Detecting Interval:** An interval that DVR tries repeatedly to detect any object change in the zone set. For example, if the object is appeared and remained only 5 seconds, it will not be detected in case 1 min. detecting interval is set as above.

**Viewing Original Frame:** Checking an original image set.

**Set as Original Frame:** Save an original image to be surveilled to check missing or appeared object.

**Set:** To mark a zone.

**Setting All:** Select all zone in a selected channel

**Clear All:** To clear set zone.



Object Detection Blocks

Click the right mouse and select "Clear Object Detection Blocks" to remove all the blocks.

### How to Set up:

1. Tick the "Object Detection" box and click on "Zone Settings".
2. Drag the mouse to select object detection zone (same as "Motion Detection").
3. Click on the "Set Frame" button to select original (default) image.
4. Go to "Detection Interval" and determine when to mark new object after its pause.
5. Go to "Setup/Schedule" and select "M"
6. Go to the "Control Screen" and find the red-squared "Object Detection" symbol.
7. One click on the "View Original Frame" button will display original image set.
8. Click it again to reactivate the "Set Frame" button.

## [People Count]

It is a function that counts people coming in and out of a certain place.

**People Counting Method**

Motion Detection

Input Device

Reset Everyday

Interval (Sec.):

OK Cancel

**People Counting Method**

Motion Detection

Input Device

Reset Everyday

Interval (Sec.):

OK Cancel

**Zone Settings**

Set

Set 2nd Zone

Clear

Setting All

Clear All

OK

Cancel

**People Count**

Check Movement from 1st Zone to 2nd.

Check Movement from 2nd Zone to 1st.



### How to Set up:

1. Set Count Interval.
2. Set zone by dragging mouse.
3. If a directional counting is needed, select one.

**Motion Detection:** Counting by Motion Detection.

**Input Device:** Counting by Input Device such as sensor.

**Reset Everyday:** Tick box to reset everyday automatically.

**Interval (Sec.):** Counting interval from the time object is detected.

**Check Movement from 1st Zone to 2nd:** Counting based on the direction a place to another.

**Check Movement from 2nd Zone to 1st:** Counting based on the direction a place to another.

**Set:** Set the first zone.

**Set 2nd Zone:** Set the second zone to be detected.

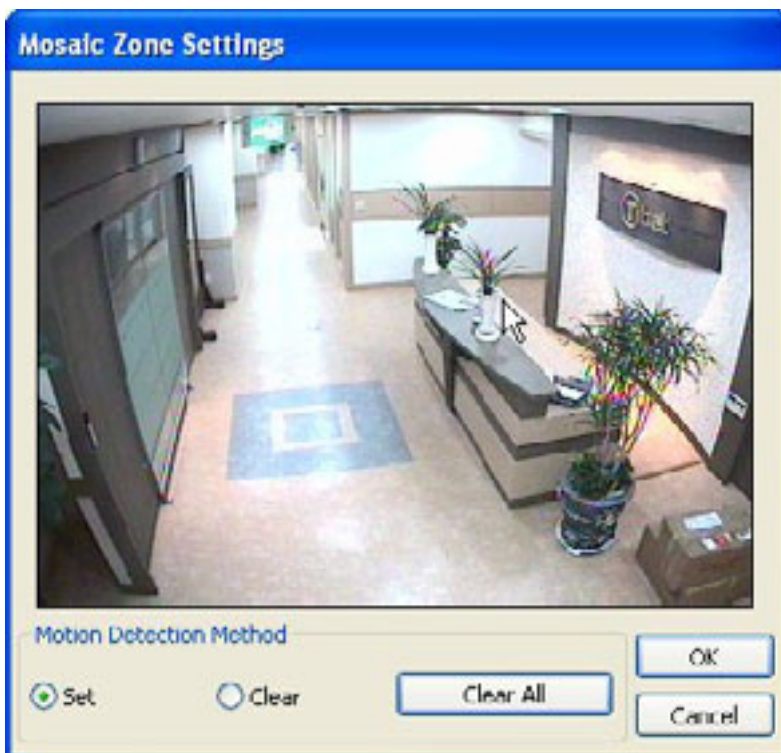
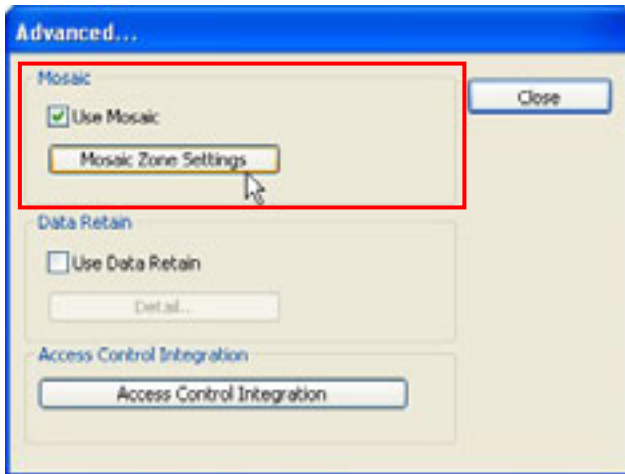
**Clear:** Clear the zone selected.

**Setting All:** Selects all areas on the screen.

**Clear All:** Clear all zones selected.

**[Mosaic]**

It is a function that veils restricted areas to keep regular users uninformed.

**How to Set up:**

1. Tick the "Use Mosaic" box.
2. Click on "Mosaic Zone Settings".
3. Set "Mosaic Zone".
4. Go to the "Control Screen" and find veiled areas.

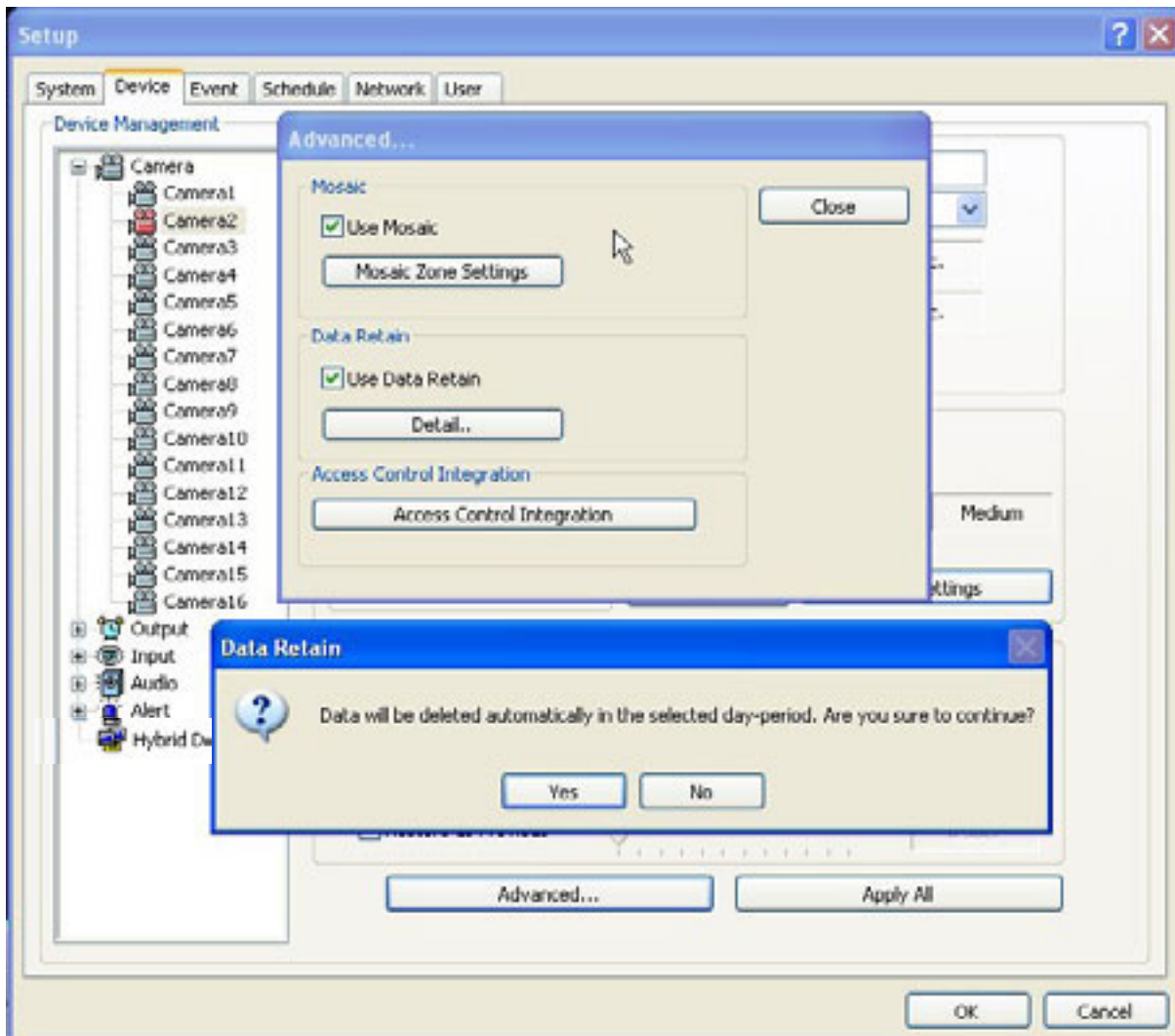
**Note:**

1. While using Mosaic, "Save" or "Print" cannot be performed.
2. To see unveiled area, logging in as "Admin" or "Admin Mode" is required.

**[Data Retain]**

It is a function that retains data only for the period set.

For example, if 10 days is set, MagicRadar will delete all previous data before 10 days regardless of the capacity remaining in HDD.

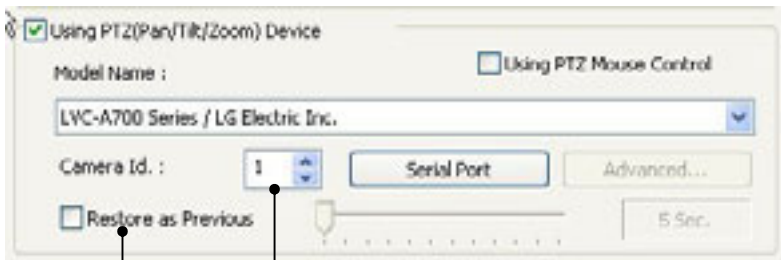
**How to Set up:**

- Click on "Advanced"
- Tick the "Use Data Retain".
- Click on "Detail". to select a day period to retain

**Note:** Warning message to inform as above will be appeared. To continue, click on "Yes"

## [PTZ Camera Setup]

When using a PTZ camera, check the box and select a model name. MagicRadar DVR system supports nearly 40 different protocols.

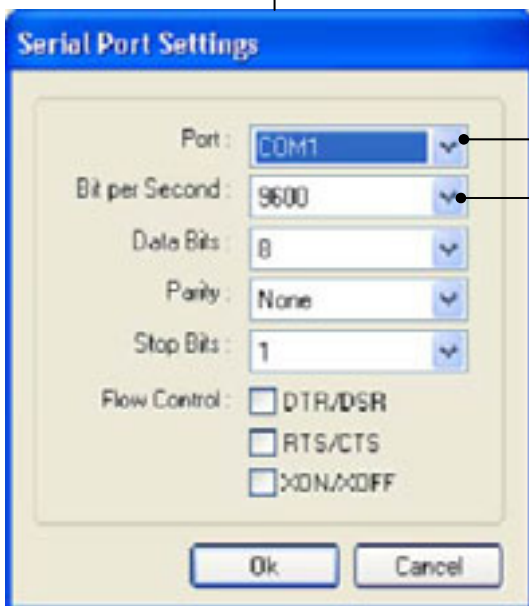


### Camera ID:

Leave it as it is if only one PTZ camera is used. Otherwise, give each camera a different number.

### Restore as Previous:

Tick the box and set time period to move camera back to initial position after a certain period of time.



Select the port used for PTZ camera.

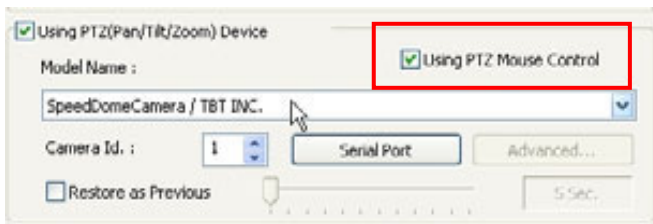
### Bit per Second:

It is 9600 for most of PTZ cameras. But a few can have different values. Refer to camera manual.

### Apply All:

The same settings will be applied to the rest of the cameras by clicking on "Apply All".

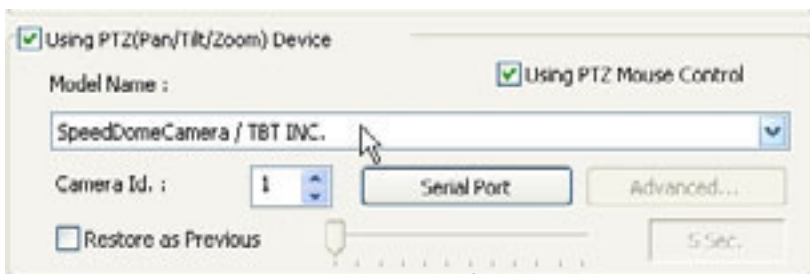
### [PTZ Control by Drag and Drop]



#### How to Set Up:

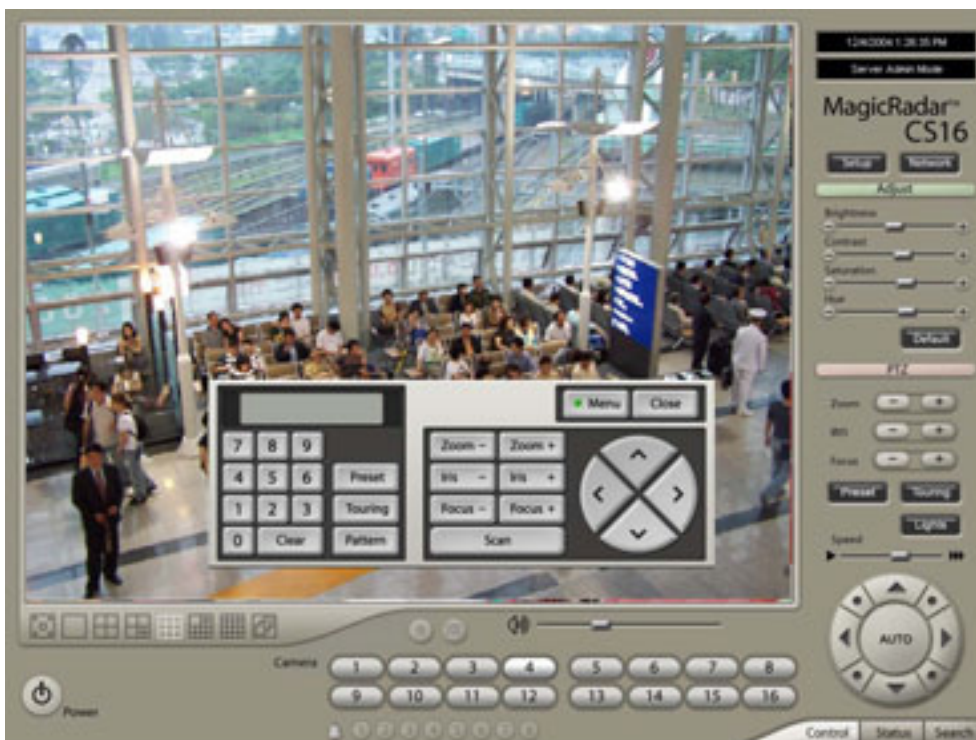
1. Simply ticks “Using PTZ Mouse Control” as above and select a proper PTZ model name.
2. On a PTZ screen, drag mouse to the desired position to see.

### [Virtual Keypad for Speed Dome Camera]



#### How to Set Up:

1. Select “SpeedDome Camera/TBT INC.” protocol to run Virtual Keypad.
2. Set proper Camera ID, Port, Bit per Second, and etc.
3. Click right mouse button on PTZ Screen and select “ PTZ Keypad”.



Click on “Menu” to go into Camera OSD.

Once preset and touring have been set through this virtual keypad, they must be controlled by the keypad. (Menu buttons on GUI will not work.)

For example, when preset 1 is set, press 1 on the keypad and “Preset”. Then it moves to the Preset No. 1 position.

**Note:** Now only limited Speed Dome models are available to run this keypad.

**[Preset & Touring]**

Either click the right mouse on camera picture or click on the Preset (Touring) button for Preset (Touring) setup and use.

**[Preset & Touring]**

“Preset” is a function that enables a camera to move from one position to another automatically.



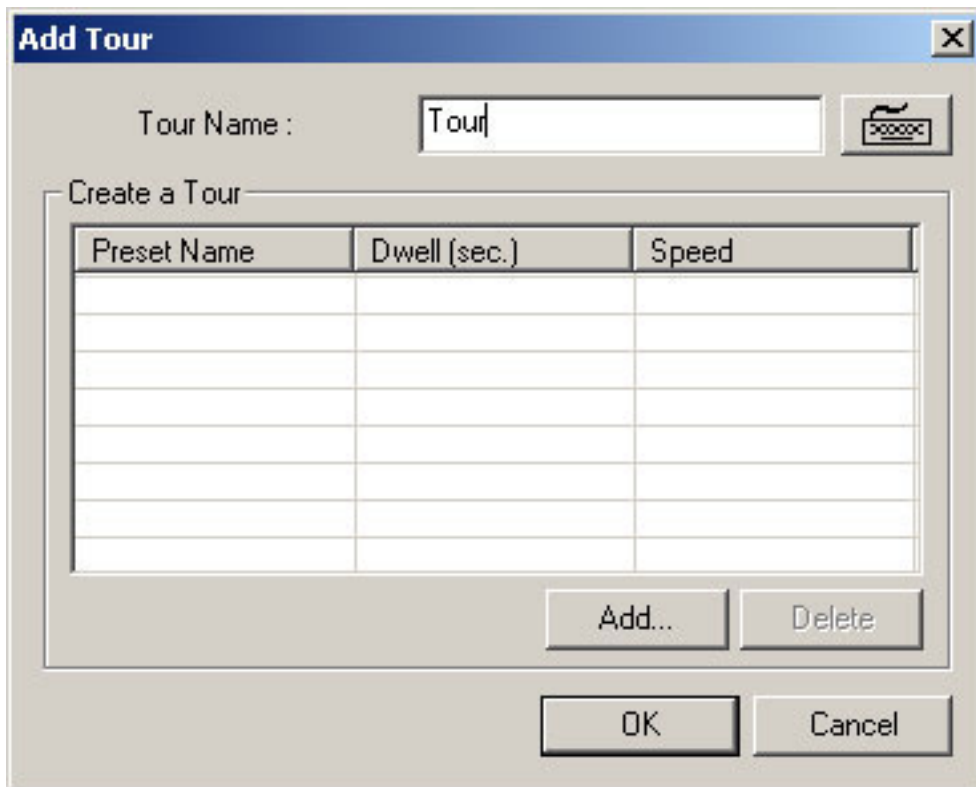
### Steps to Set up Presets:

1. Move camera to a desired position using the PTZ Control on Control screen.
2. Click the right mouse.
3. Name the preset.
4. Repeat the above for setting up as many as 256 presets.
5. Click the right mouse to run preset and click the "Auto" button to stop it.

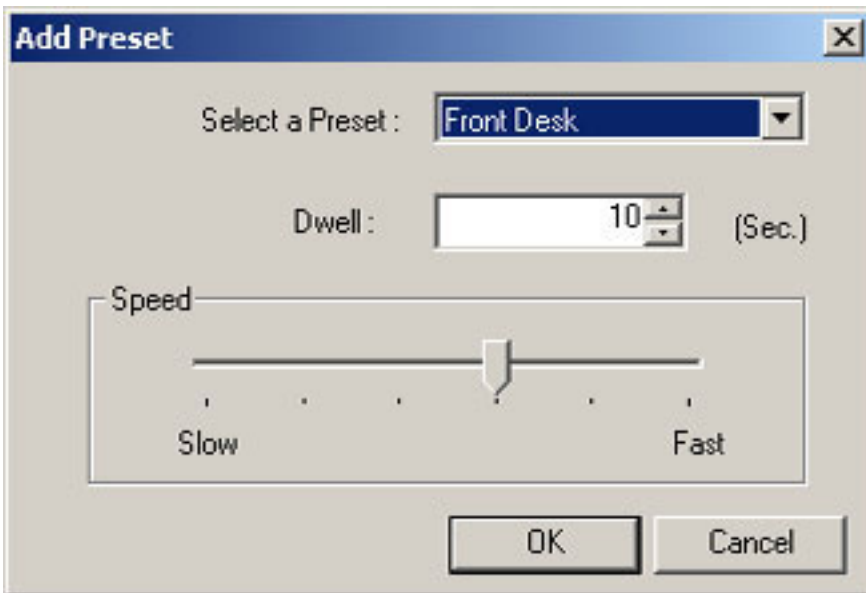


**[Touring]**

“Touring” is a function that enables a group of selected presets to work repeatedly.

**Steps to Set up a Tour:**

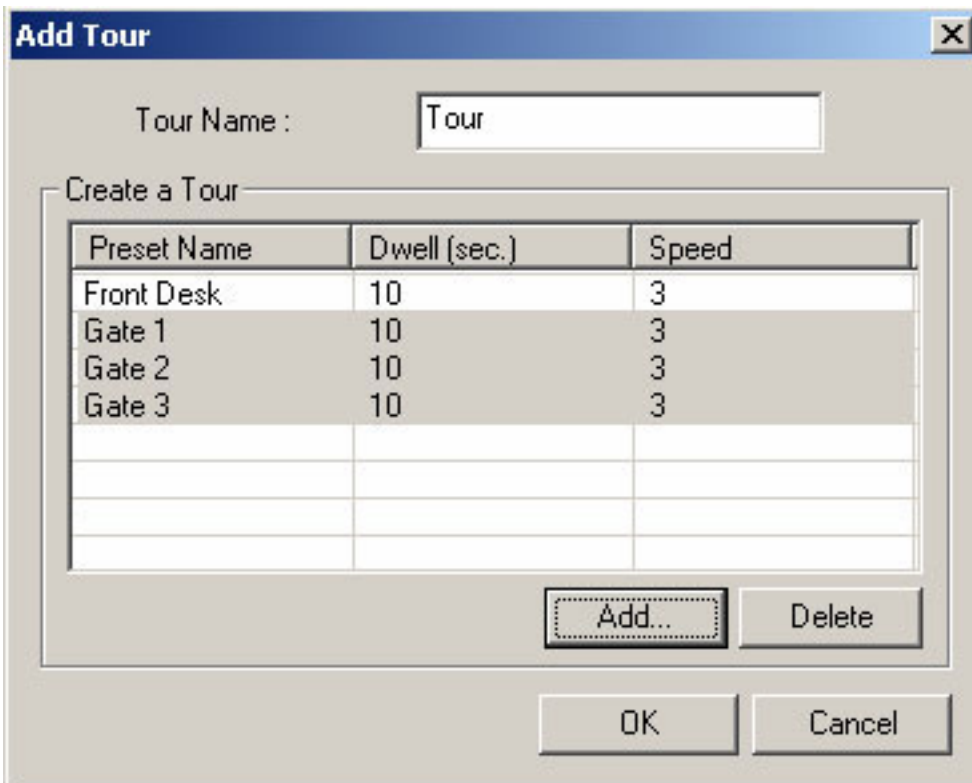
1. Click the right mouse.
2. Name the tour.
3. Click on “Add”.
4. Select a preset.
5. Click “OK”.
6. Repeat the above to have more than 1 preset in the tour.
7. Click the right mouse to run the tour.

**Dwell:**

The length of time that camera will pause before moving to the next preset.

**Speed:**

Moving speed for selected preset.



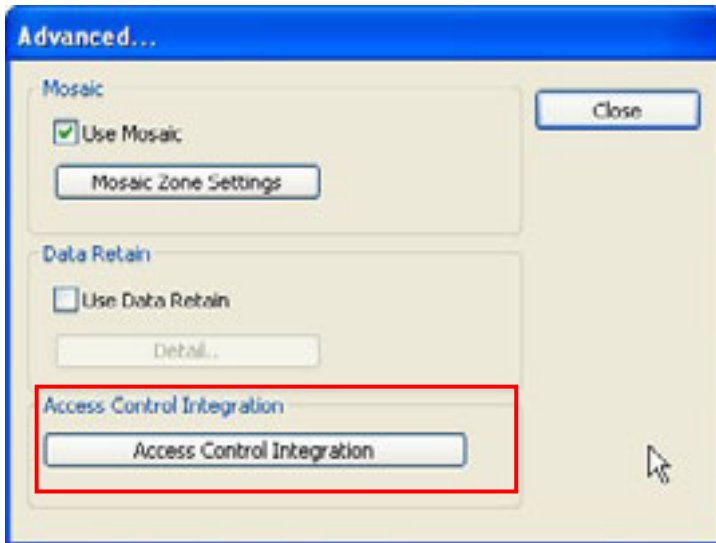


Advanced PTZ setup can be done by one right mouse click.  
Make sure that the PTZ camera to set up supports advanced PTZ control functions first.

## [Access Control]

It is a function that integrates Access Control into DVR system.

For Access control DVR, please refer to another document "Access control DVR".



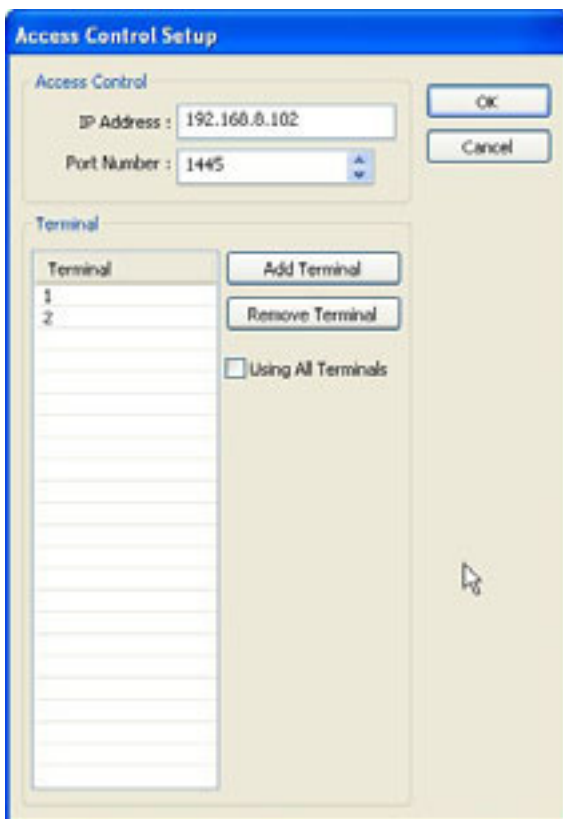
### How to Set up:

Click on "Advanced"

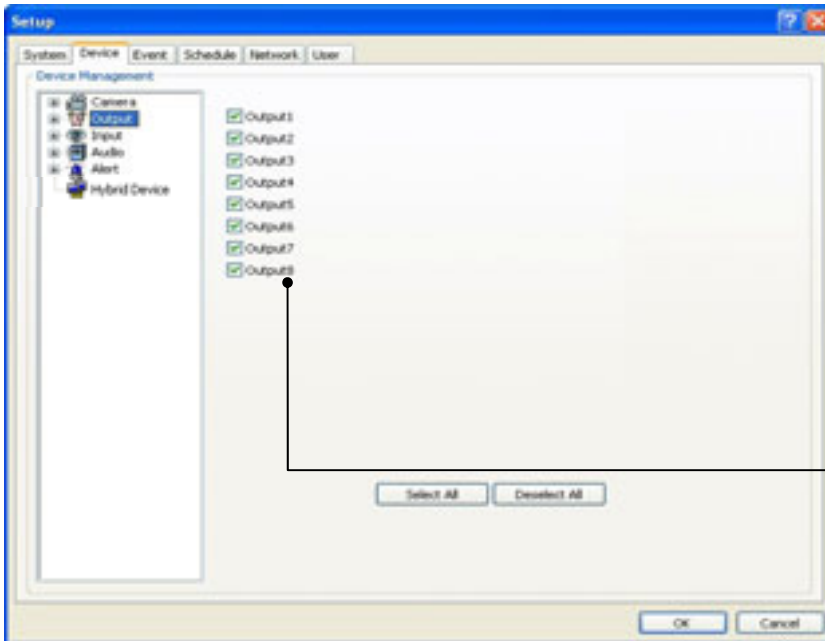
Click on "Access Control Integration"

Type in "IP Address" and Port Number of access control connected PC.

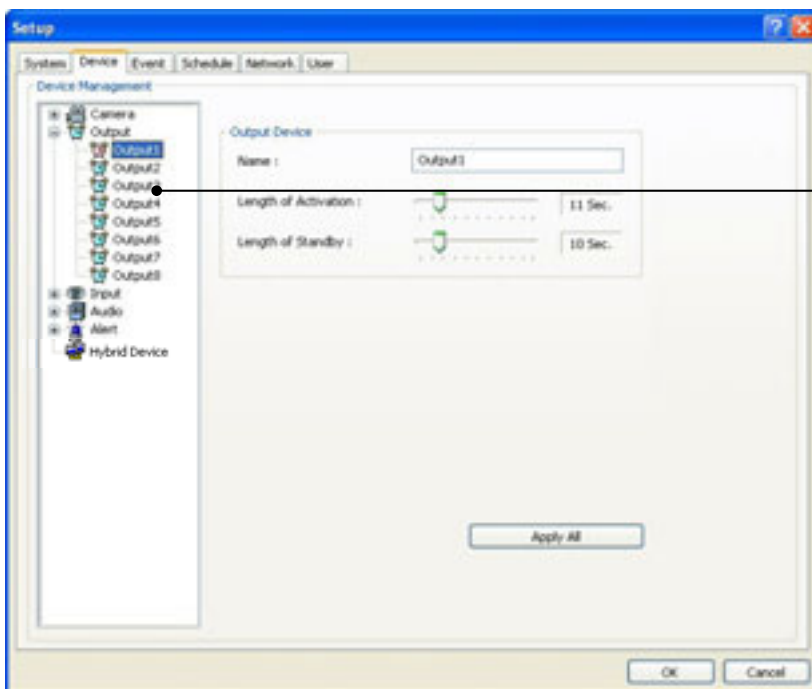
**Note:** For more information about Access Control Integration, refer to the appendix 4, please.



## ● Output Device



MagicRadar DVR system can be equipped with as many as 8 output devices. Simply check the boxes for use. In addition, outputs can be manually activated from Control screen (Manual Alarm).



Double-click on "Output" for individual output setup.

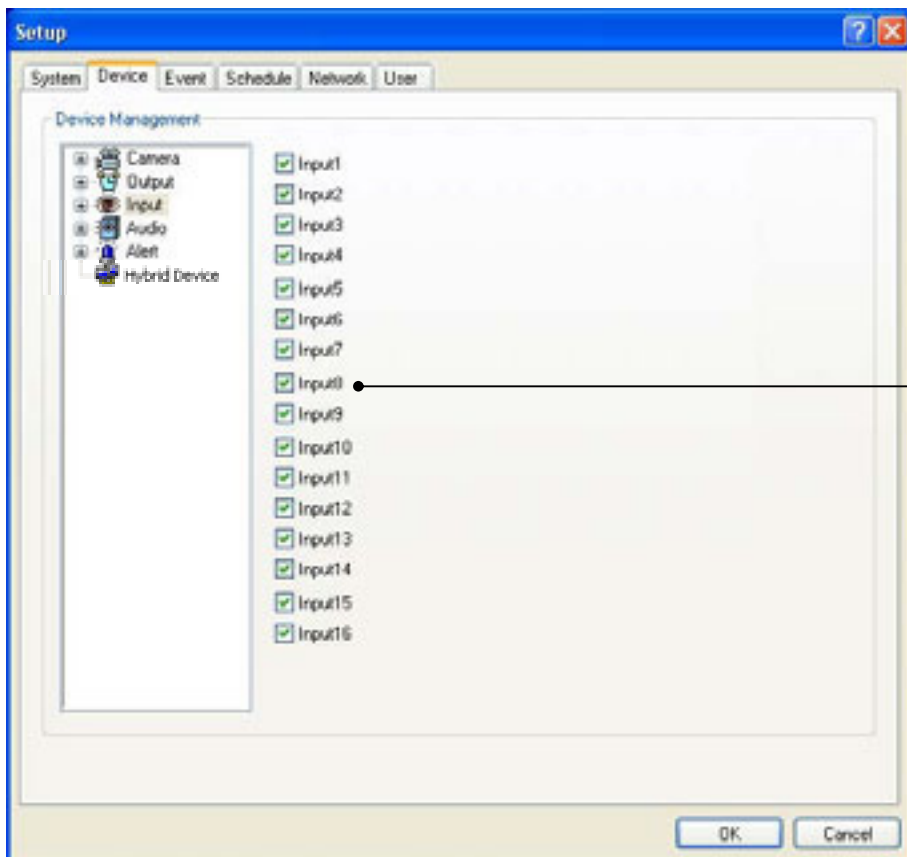
**Name:** Output device name.

**Length of Activation:** The length of output activation (1-60 sec.).

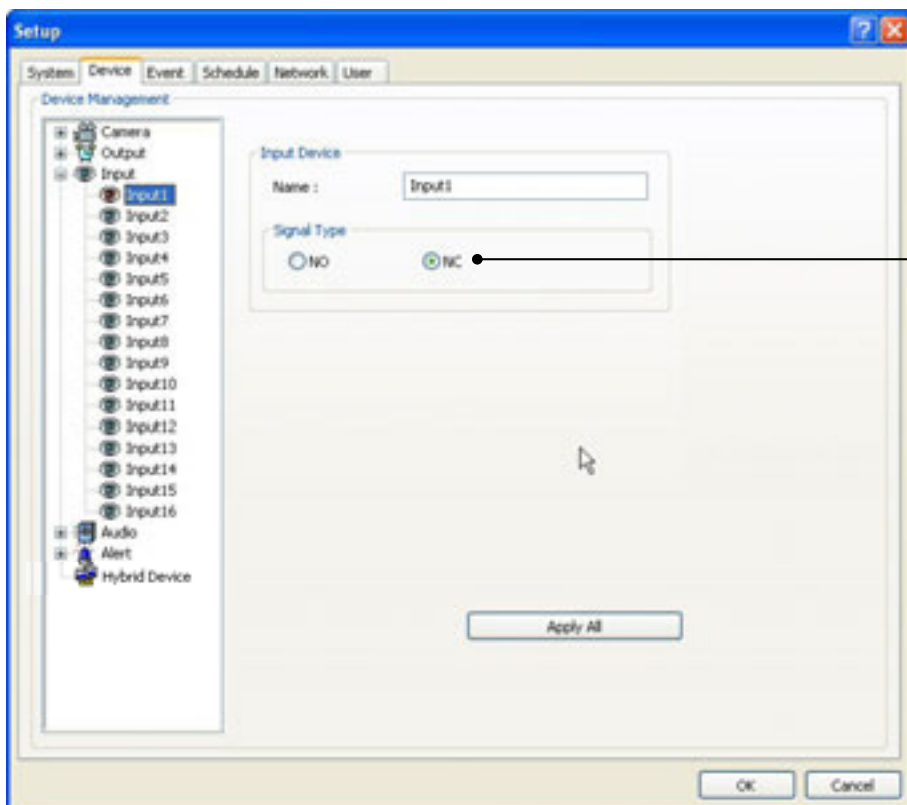
**Length of Standby:** The length of output deactivation until reactivation (0-60 sec.).

**Apply All:** The same settings will be applied to the rest of the output devices.

## • Input Device

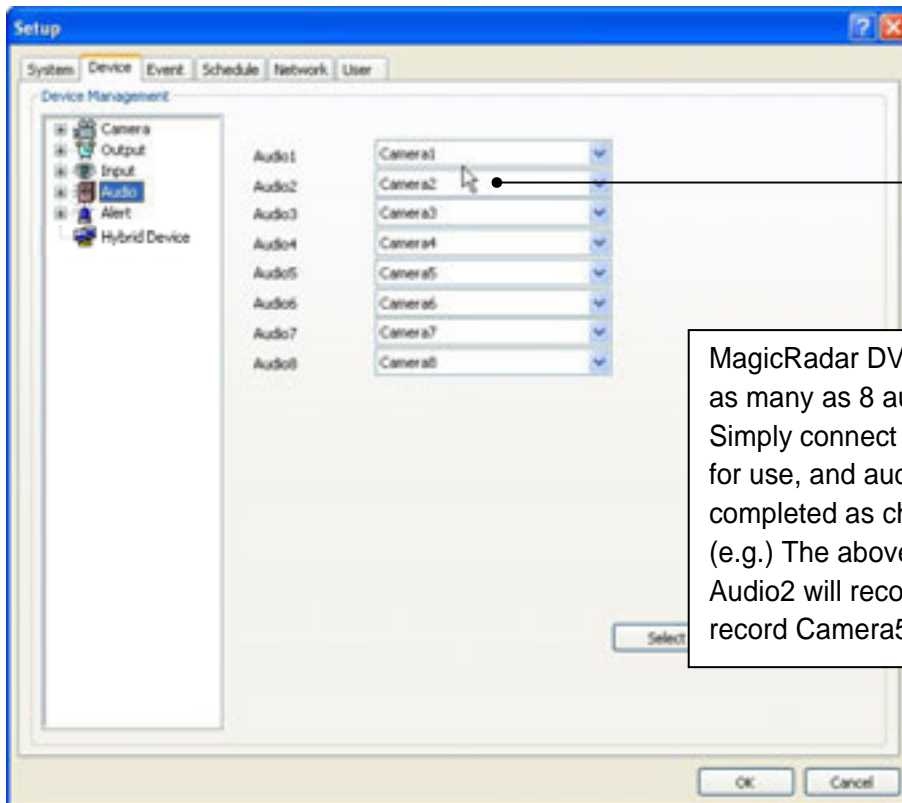


MagicRadar DVR system can be equipped with as many as 16 input devices. Simply check the boxes for use.

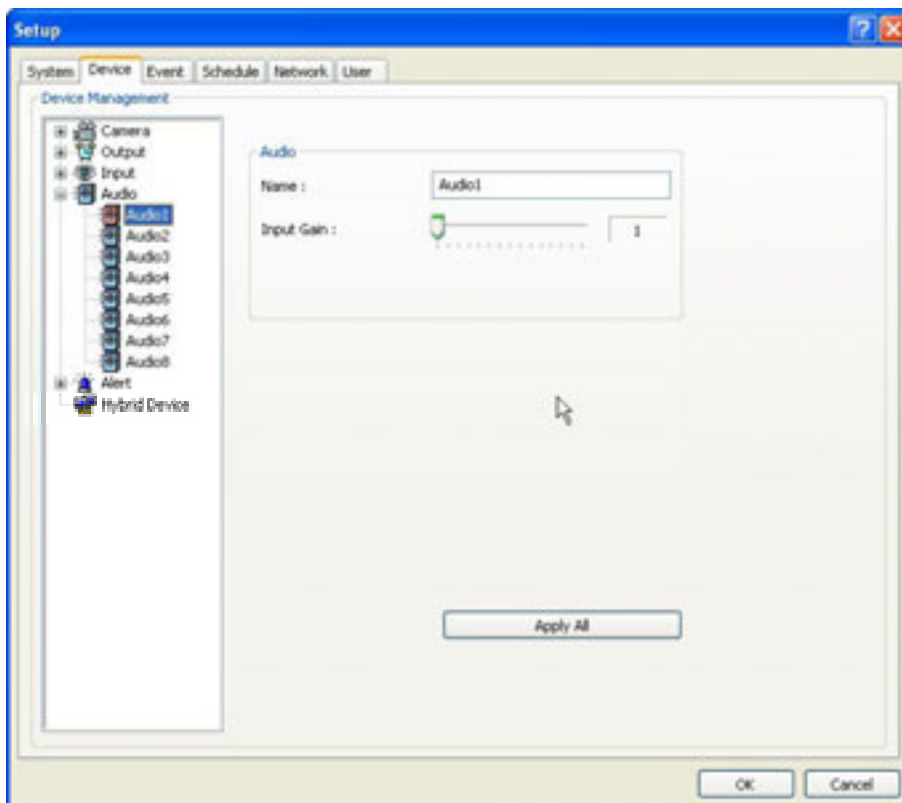


Each and every input can be tuned independently.  
**Signal Types:**  
 NO(+) & (-) detached normally  
 NC(+) & (-) attached normally

- Audio

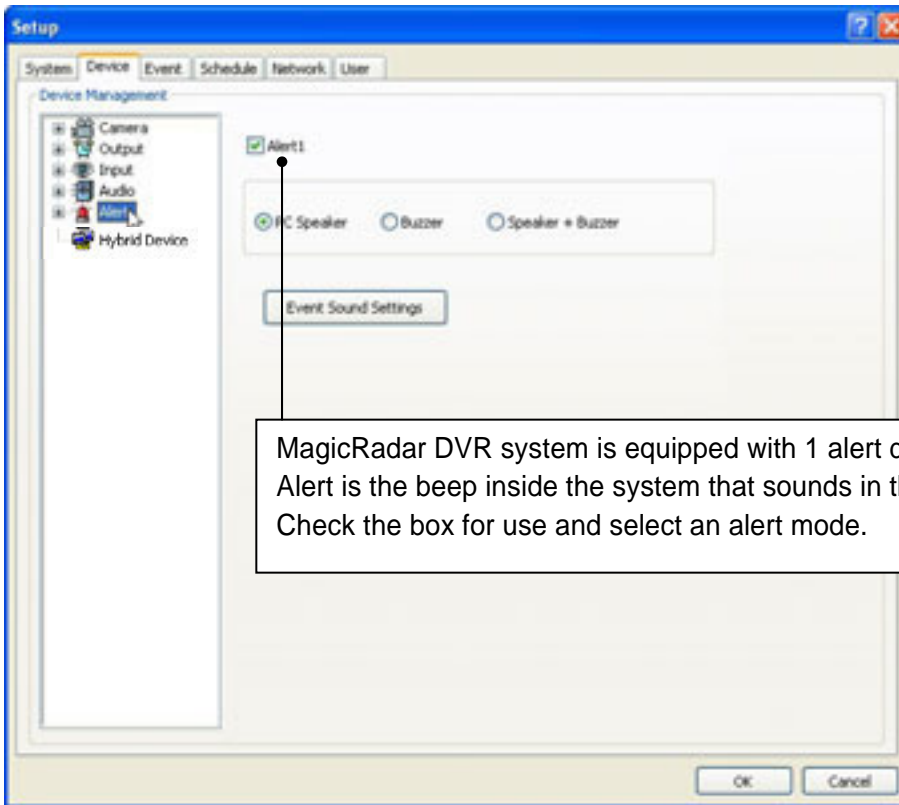


MagicRadar DVR system is equipped with as many as 8 audio channels. Simply connect cameras to audio channels for use, and audio recording will be completed as chosen. (e.g.) The above selections indicate that Audio2 will record Camera3, Audio3 will record Camera5, etc.

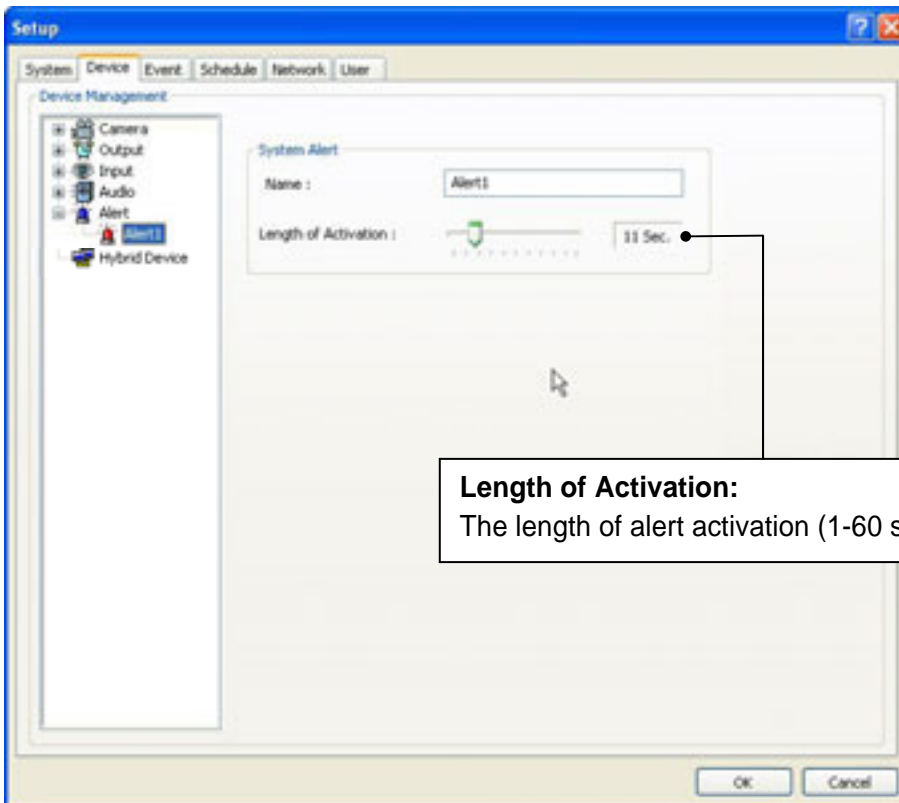


**Input Gain (1-15):** It is audio level control similar to volume control.

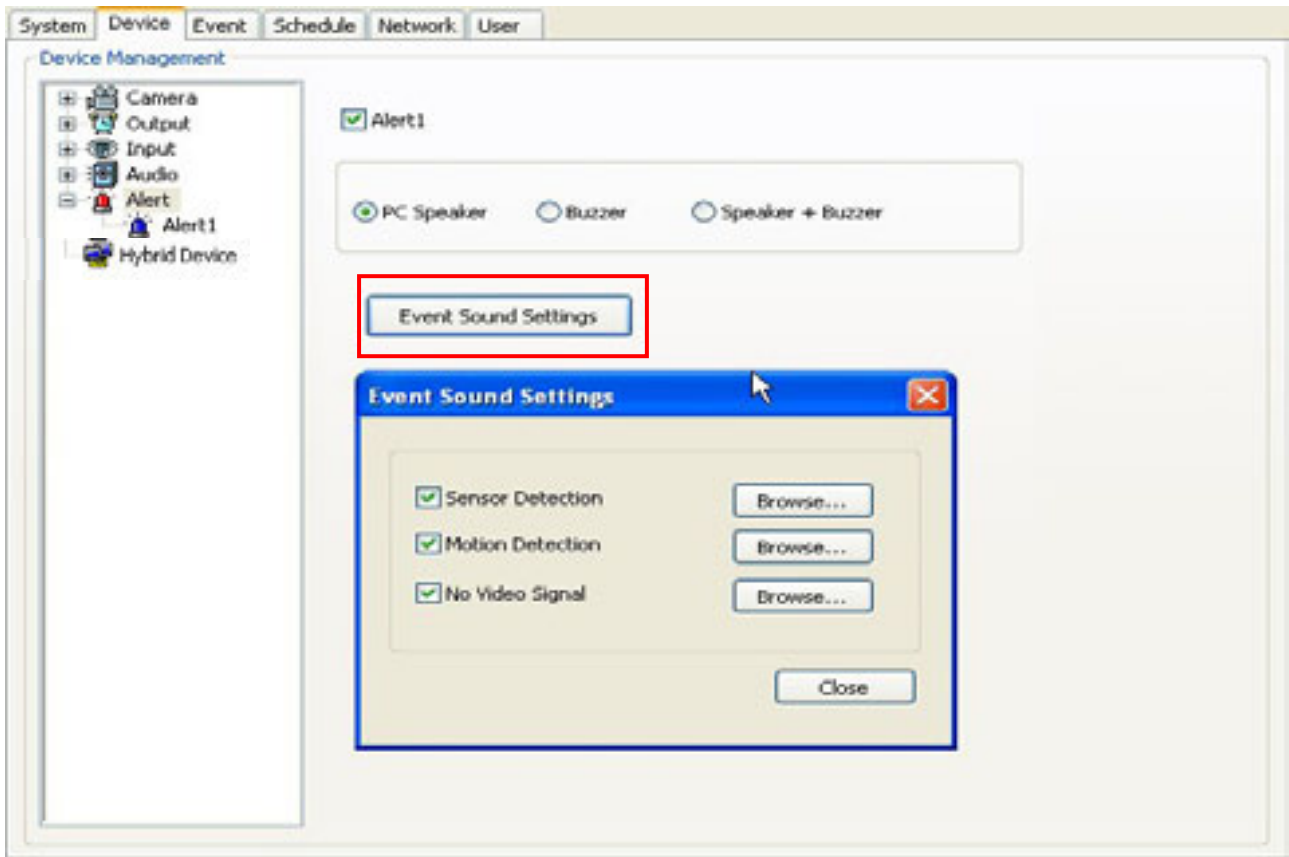
- Alert



MagicRadar DVR system is equipped with 1 alert device. Alert is the beep inside the system that sounds in the case of event. Check the box for use and select an alert mode.



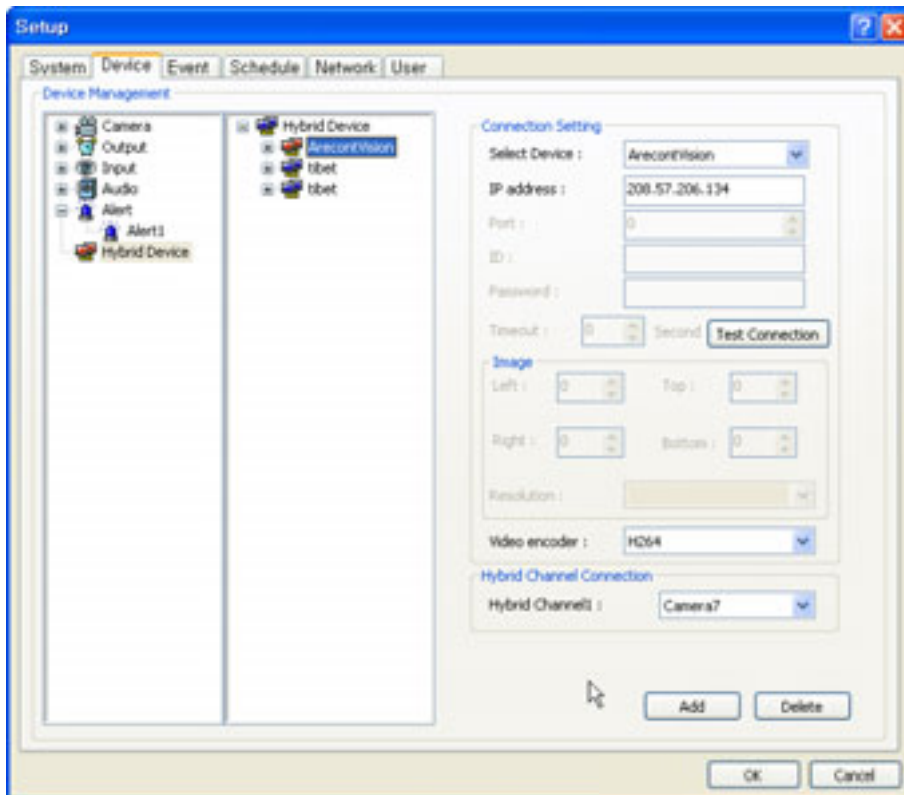
**Length of Activation:**  
The length of alert activation (1-60 sec.).

**Event Sound Settings:**

To differentiate alert sound by Events(Sensor, Motion, and No video Signal), select a Wave File for each.

## • Hybrid Device

It is a function that integrates Hybrid devices through network connection.  
(IP Camera, Video Server and HR series can be installed as Hybrid device)



### How to setup Hybrid Device:

1. To specify Hybrid channel, disable specified camera.
2. Select Device to setup
3. Input IP address of device
4. Input data to login (Port number ID and Password)
5. Select Video encoder to connection.
6. Select Hybrid Channel to assign.  
(Notice: Multiple Hybrid channel assign is not allowed.)
7. Click "Add" button to register and then click "OK" button to continue.

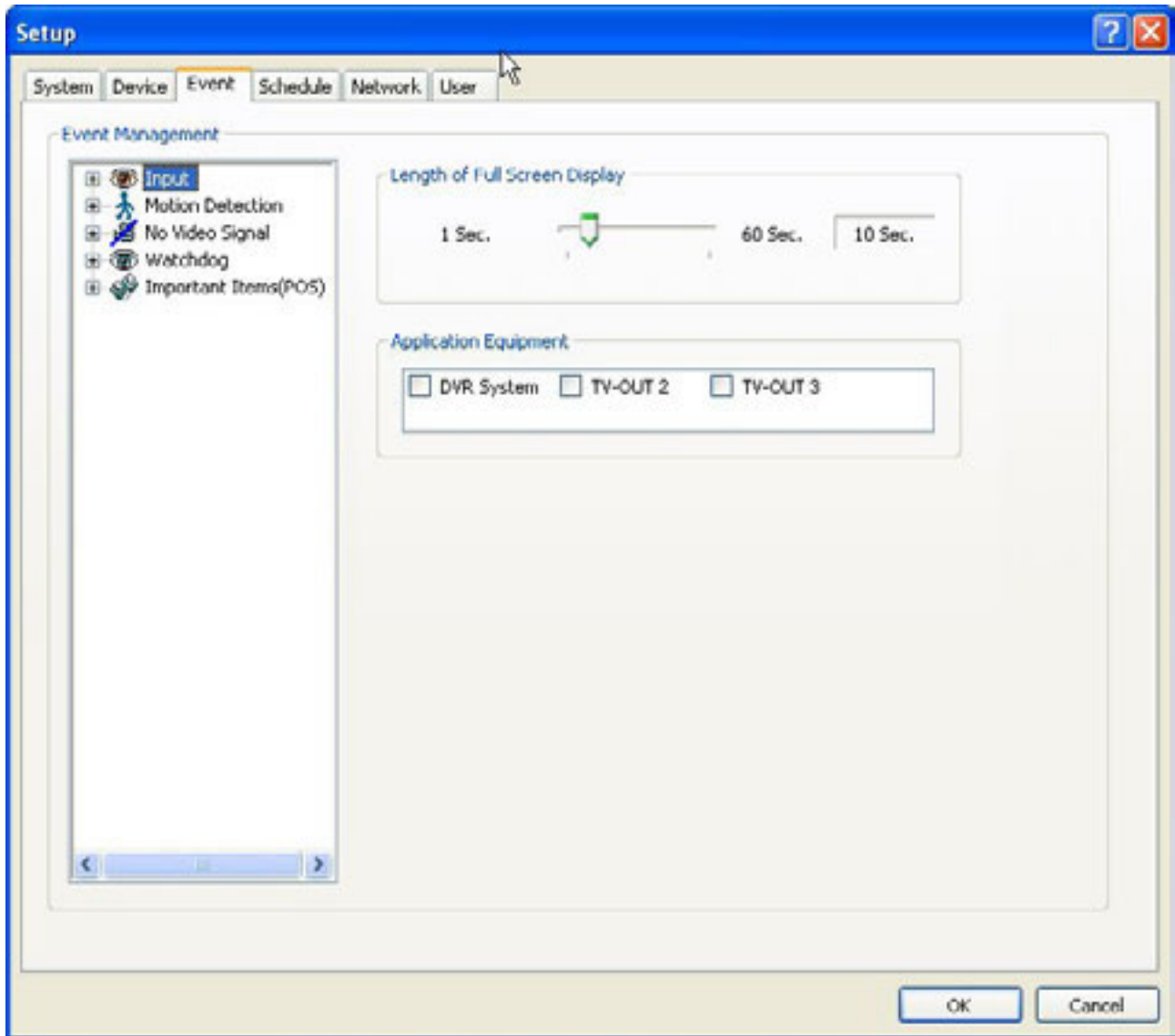
After finish setup Hybrid device, connection will be automatically started.

Notice: For detailed information Hybrid device support, please refer to "Hybrid DVR supporting list"

### (3) Event

“Event” consists of 3 different groups; “Input”, “Motion Detection” and “No Video Signal”. On this menu, devices can be set to respond to different events.

- **Input**



**Length of Full Screen Display:**

The time length for full screen display in the case of input device activation.

**Full Screen Display Channels: Full Screen Display:**

Selected camera channel will pop up if the linked input device is triggered.

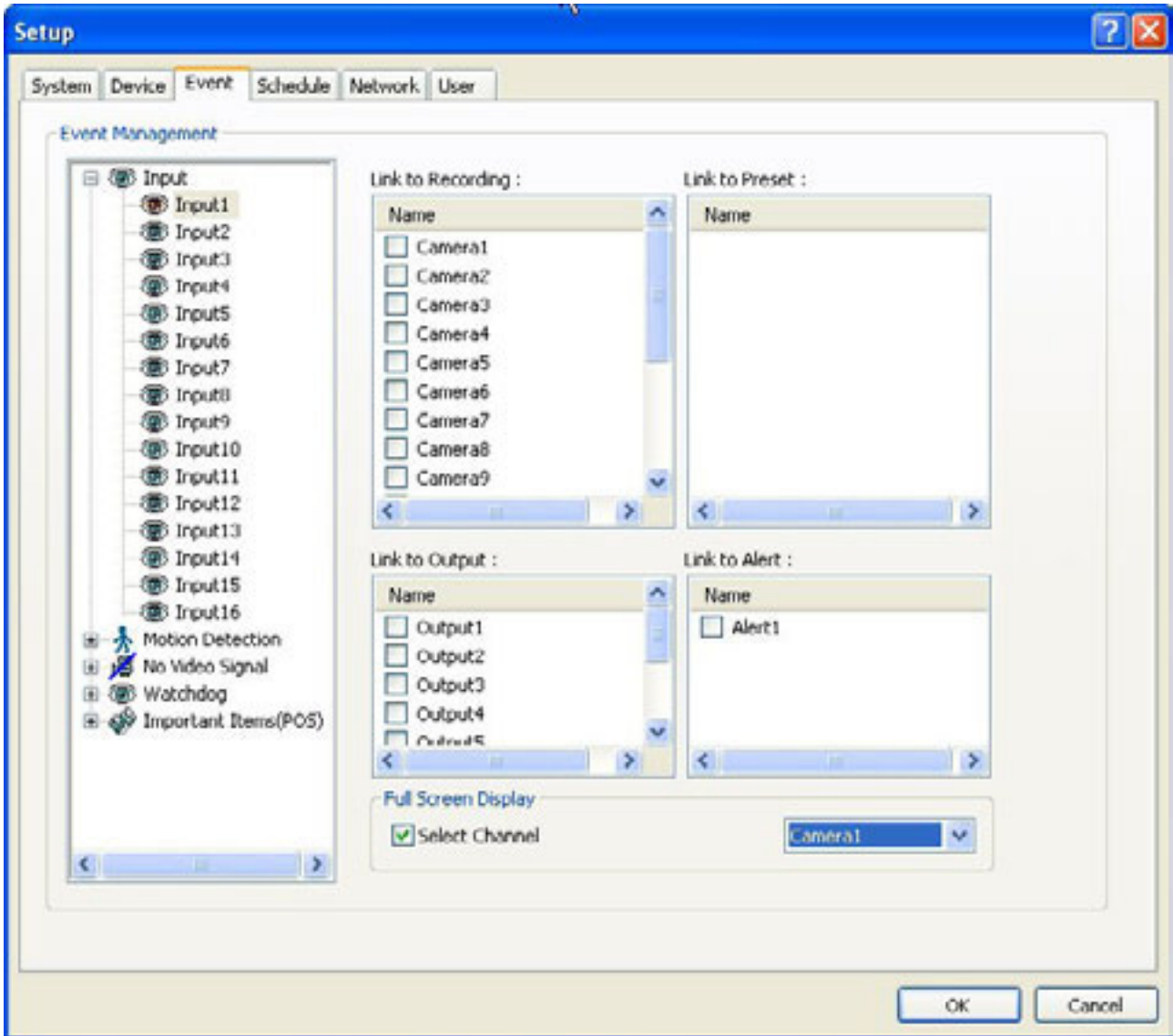
**The equipment of application:**

Events triggered by Input or Motion detection can pop on a desired screen among DVR system, DVR+TV-OUT1, TV-OUT2, TV-OUT3.

**Link to Recording:**

One Input device can have as many as 16 recording cameras on activation.

The below example shows that Camera1 will record in the case of Input1 activation.

**Link to Output:**

One Input device can have as many as 8 activating output devices on activation.

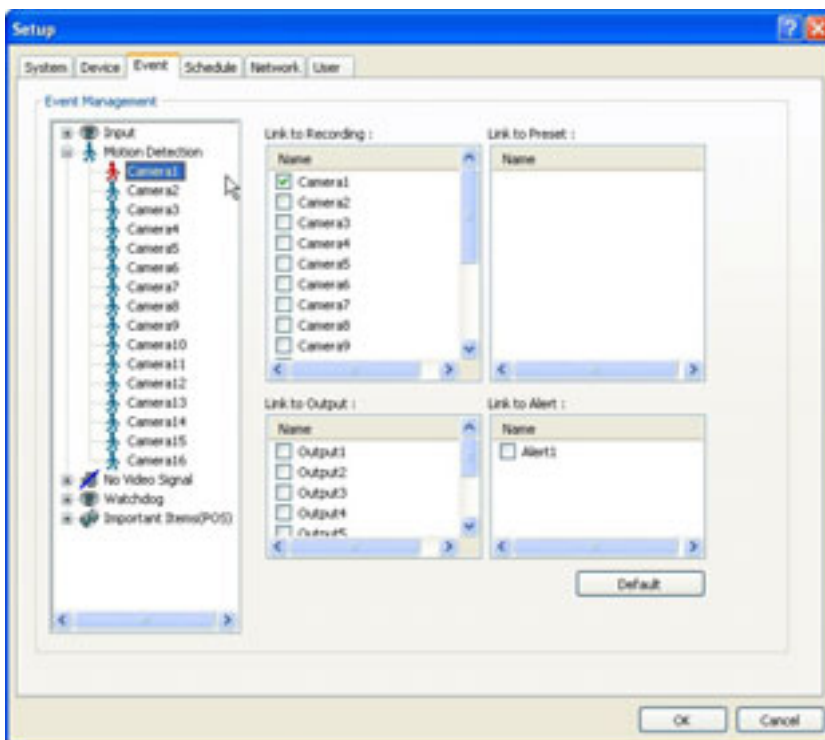
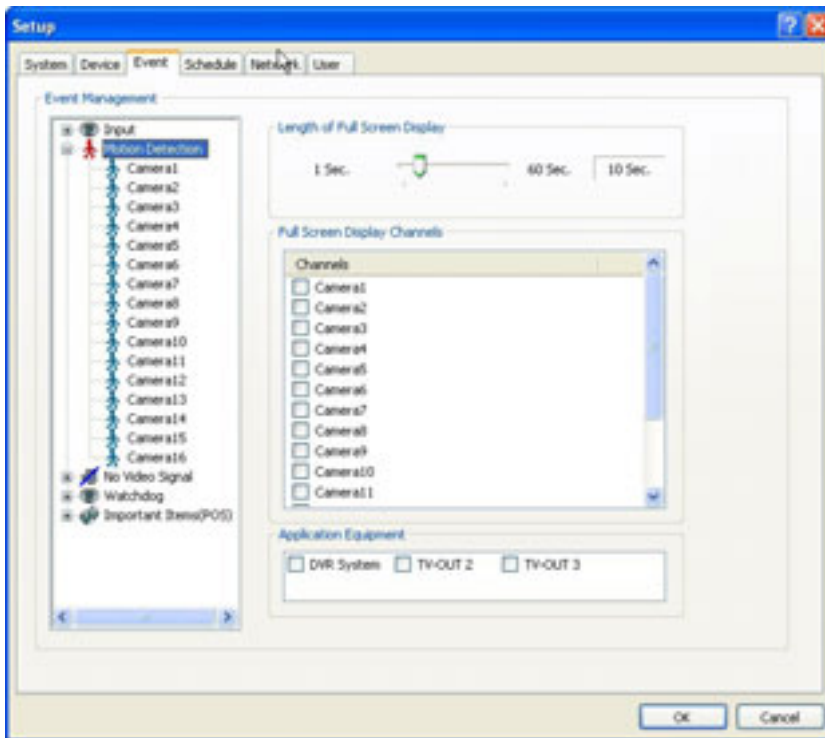
The above example shows that Output1 will be activated in the case of Input1 activation.

**Link to Alert:**

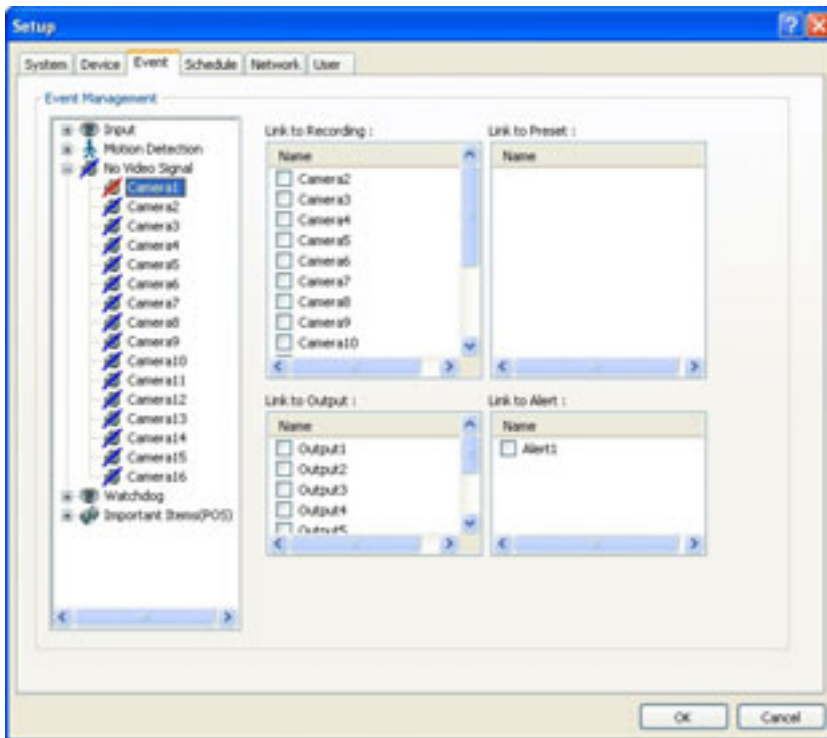
Input device can also be linked to alert.

## ● Motion Detection

The same identical concepts and methods as “Input” are applied to “Motion Detection”.

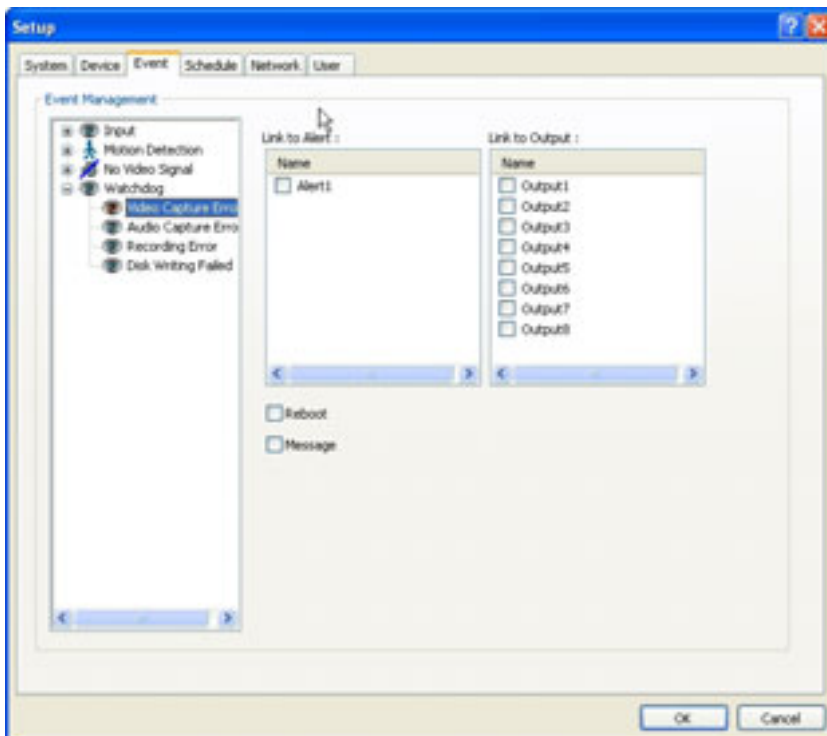


- No Video Signal

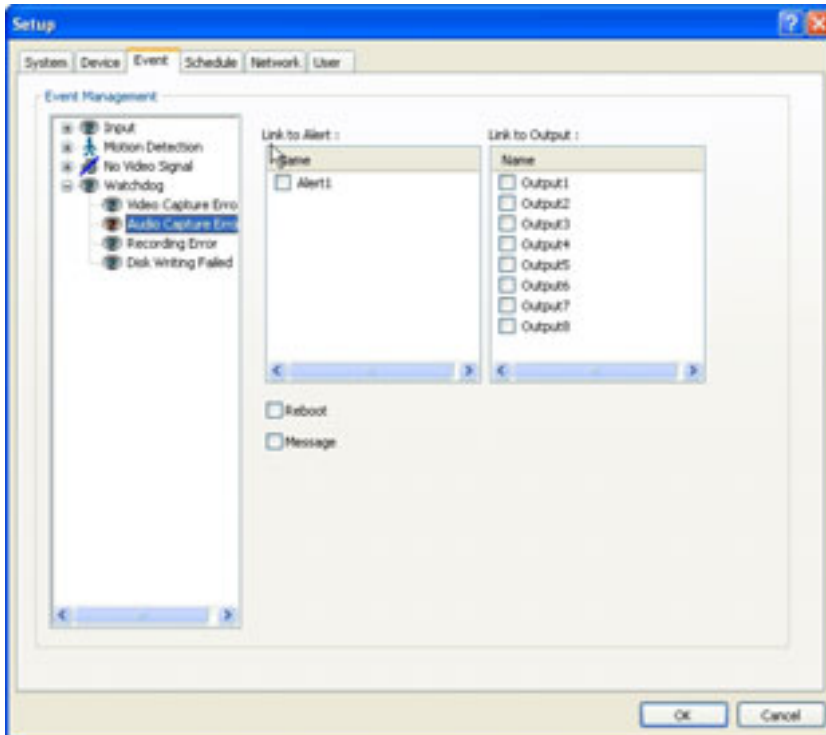


The same identical concepts and methods as “Input” are applied to “No Video Signal”.

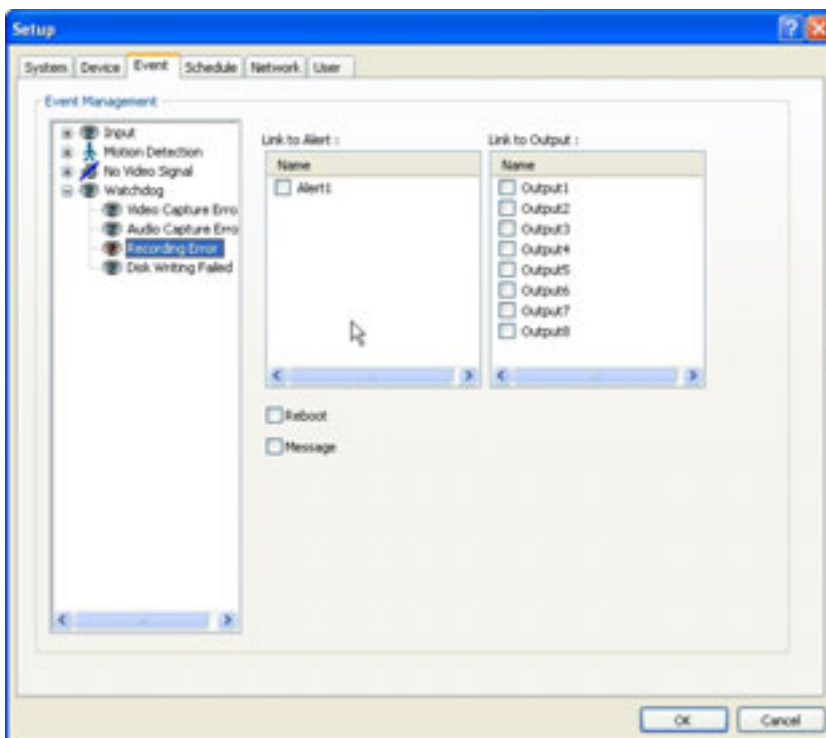
- Watchdog



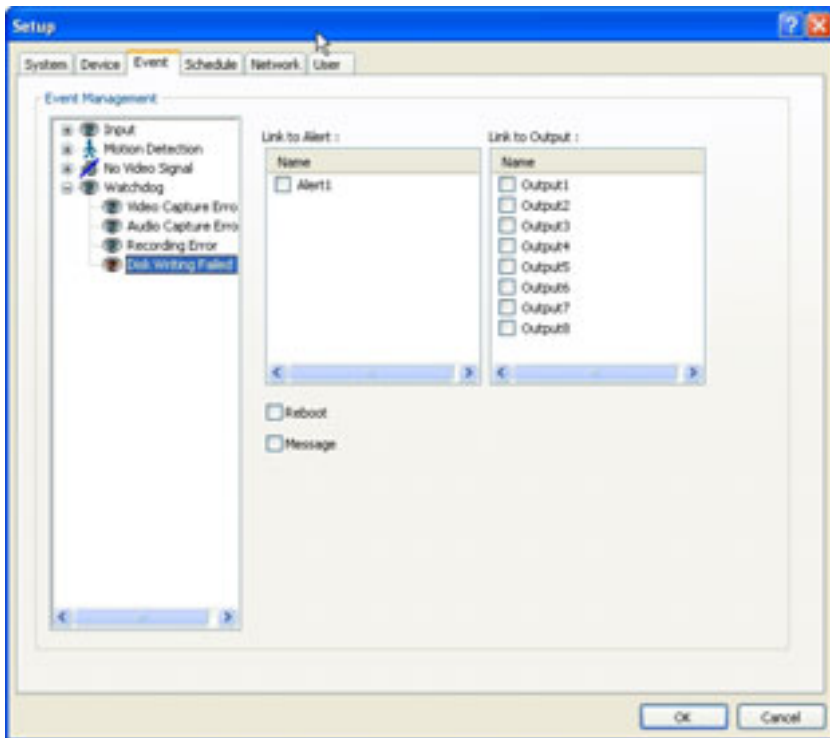
The same identical concepts and methods as “Input” are applied to “Watchdog”. When “Video Capture Error” is occurred, it is linking to Alert and Output. User can link the event to Reboot, Message on DVR.



The same identical concepts and methods as “Input” are applied to “Audio Capture Error”. When “Audio Capture Error” is occurred, it is linking to Alert and Output. User can link the event to Reboot, Message on DVR.



The same identical concepts and methods as “Input” are applied to “Recording Error”. When “Recording Error” is occurred, it is linking to Alert and Output. User can link the event to Reboot, Message on DVR.

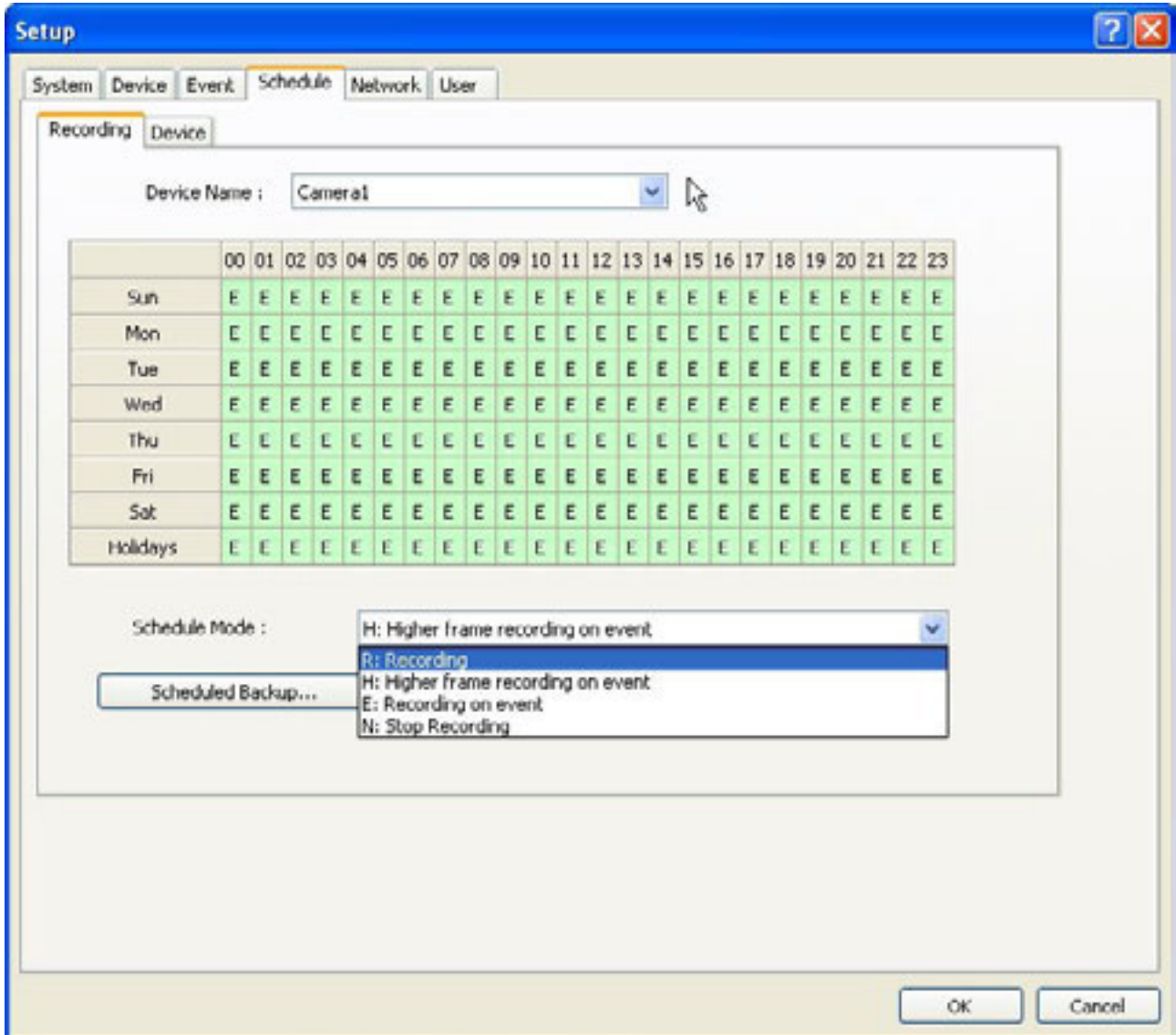


The same identical concepts and methods as “Input” are applied to “Disk Writing Failed”  
When “Disk Writing Failed” is occurred, it is linking to Alert and Output.  
User can link the event to Reboot, Message on DVR.

## (4) Schedule

“Schedule” is a place where the different activities of different devices are determined.

### • Camera



Each camera can have different recording options; scheduled recording by time & day and selective recording.

**R:** Recording at all times

**E:** Recording on event

**N:** Stop recording

**H:** Recording at all times and higher frame recording on event

**Schedule Backup**

Use Scheduled Backup

Automatic Start Time : 01:00

Time Period

From : 02:00 To : 03:00

Apply Previous Date  Apply Previous Date

Channels

Channels

Camera1  
 Camera2  
 Camera3  
 Camera4  
 Camera5  
 Camera6

Select All

Password

Password : ●●

Retype Password : ●●

Target Directory : C:\backup

Browse...

Create Subdirectory Name as Date

OK

Cancel

**Use Scheduled Backup:** To set backup automatically.

Please refer to next to example.

**Automatic Start Time:** At 1 a.m. it automatically starts back up.

#### Time Period

**From:** When “Apply Previous Date” is checked, 2 a.m. means yesterday. If not, it is coming 2 a. m.

**To:** Same concept as “From”.

**Channel:** Cameras wish to backup.

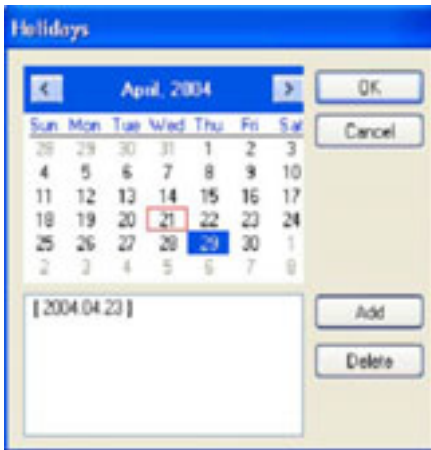
**Select All:** Select all cameras

**Password:** Give password to play back back up data.

**Retype Password:** Retype password to double confirm.

**Target Directory:** Selects directory to backup.

**Create Subdirectory Name as Date:** Gives created directory name based on the date.



The holiday recording schedule set at the bottom of the “Schedule” table will be applied to selected dates.

### • Manual (Instant) Recording

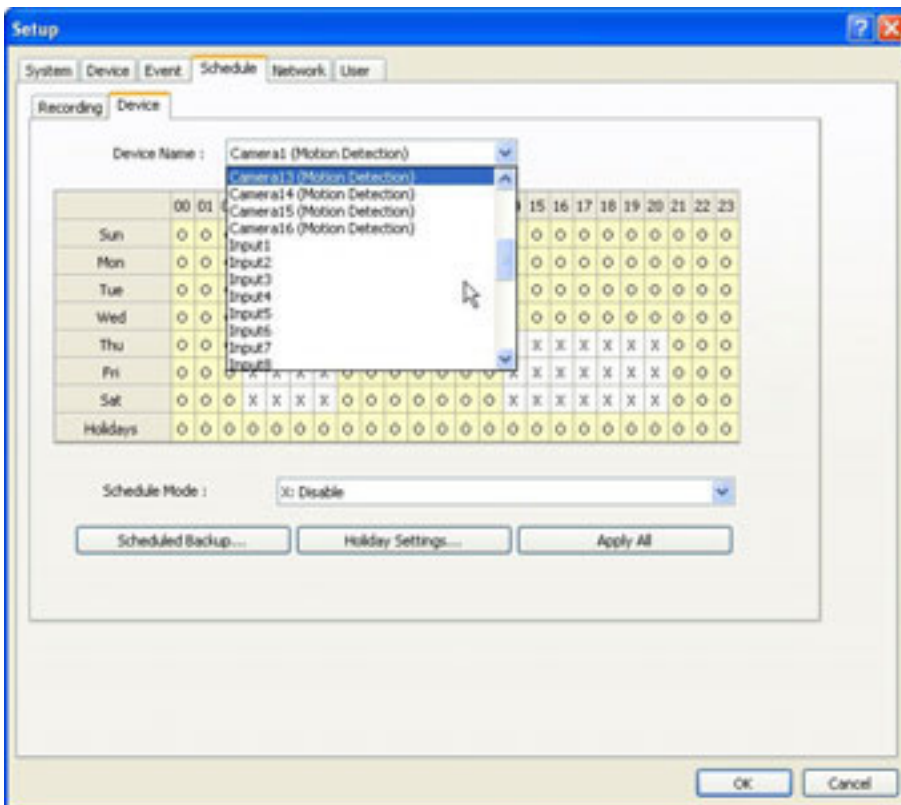
It is a function that enables users to react on an emergency situation properly by making MagicRadar start recording immediately.



1. The purple icon indicates that it is on “Manual Recording”.
2. Only ‘Admin’ can use “Manual recording”.

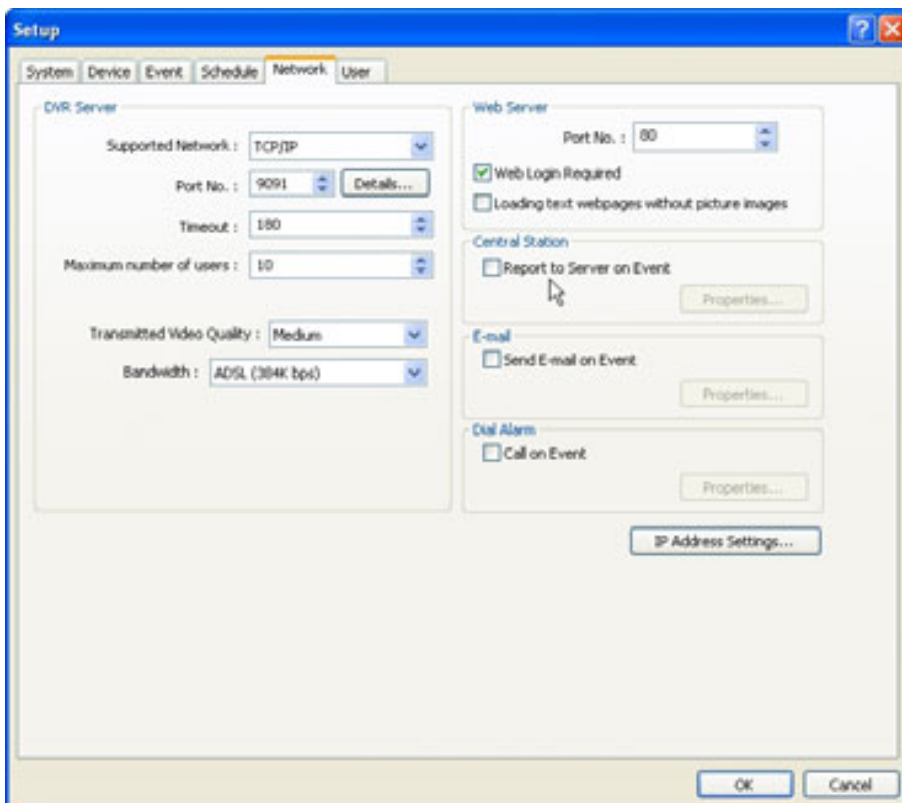
Start “Manual Recording” by selecting “Recording On”. Stop “Manual Recording” by selecting “Recording Off”.

- Device



Select detailed schedule for activating sensor and alarm individually.

### (5) Network



## ● DVR Server

### Supported Network:

1. TCP/IP - Connecting to DVR Server from Client using Lan or DSL
2. PSTN - Connecting to DVR Server from Client using PSTN or ISDN modem
3. Not In Use - Not allowed to connect to DVR Server remotely

**Port No.:** The default port number is 9091.

**Timeout:** The time length of trials to connect to DVR Server from Client

**Maximum Number of Users:** The maximum number of users that can be logged in remotely.

**Details:** It shows all the port numbers that are available to use.

### Transmitted Video Quality:

Video quality to be transmitted to Client.

As a reminder, the higher video quality gets, the slower network transmission speed becomes. Therefore, it is often recommended to select low video quality when using "Narrowband".

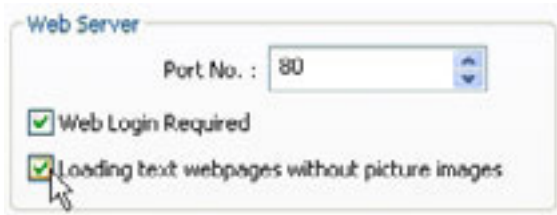
### Bandwidth:

Make sure to select the right bandwidth to have the right network performance.

### Note:

MagicRadar will automatically appoint a proper IP address to router. No router setup required.

## • Web Server



**Port No.:** Fixed HTTP Port No.

### **Web Login Required:**

If the box is checked, login is required when connecting to DVR server using web browser.

If the box is NOT checked, automatic login as “anonymous” will be done.

### **Loading text webpages without picture images:**

If the box is checked, it takes less time to download initial page of web browser. It downloads only text, not graphic user interface.

## • Central Station

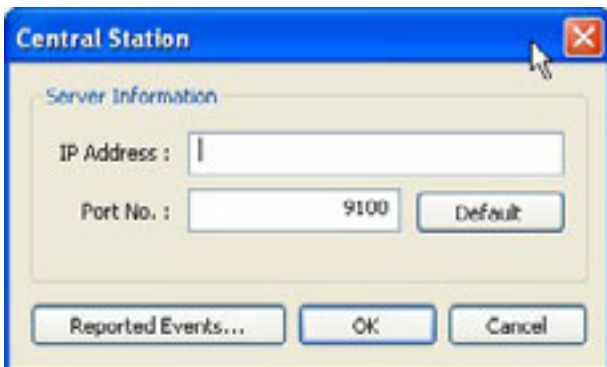


Central Station” is a function that enables Client with static IP to manage multi DVR sites.

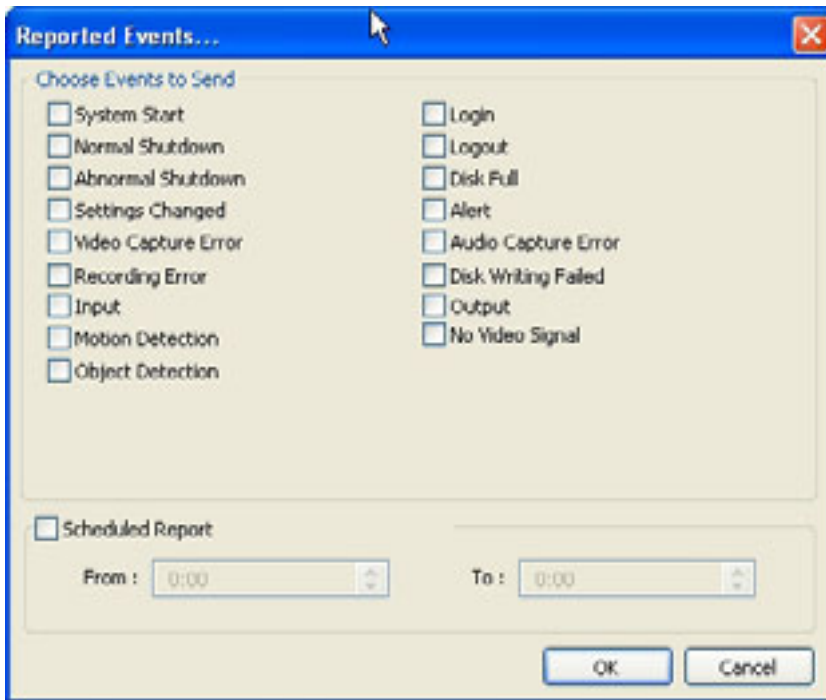
Check the box and click on “Properties” for setup.

**Note:** “i-CEN’S” must be installed on Central Station Server (Client).

For more details, ask your supplier for proper instruction.

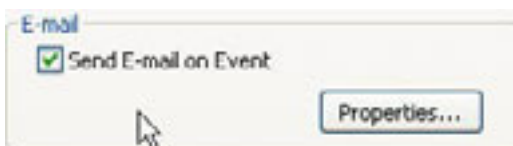


Type in the IP address of Central Station Server (Client with Static IP) and click on “Reported Events” for more setup.

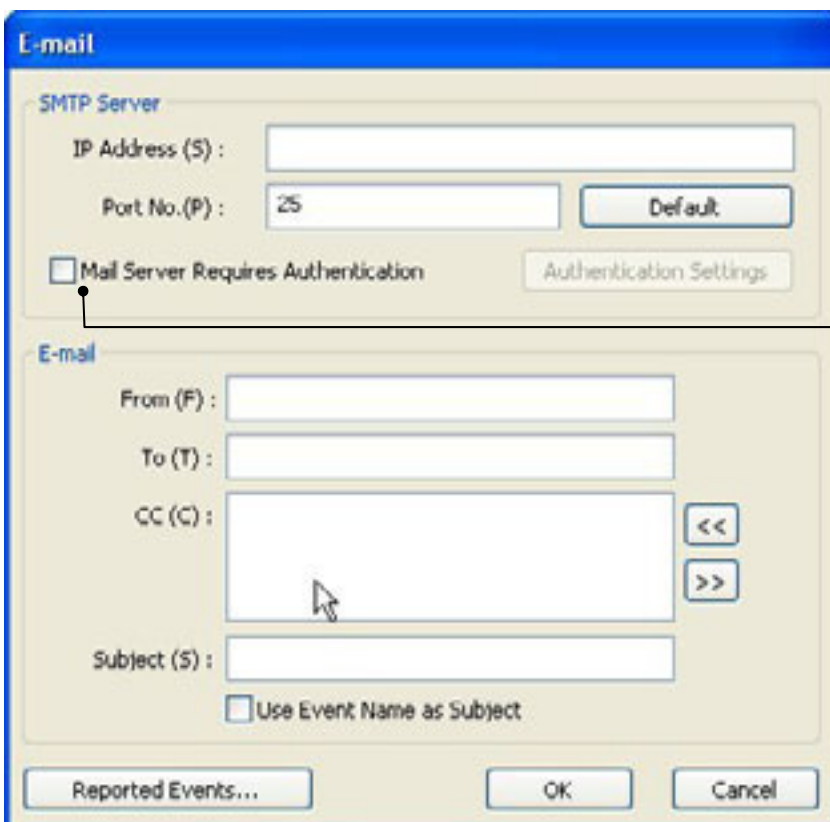


Choose events to report to Central Station server and set reporting time period.

## • E-mail

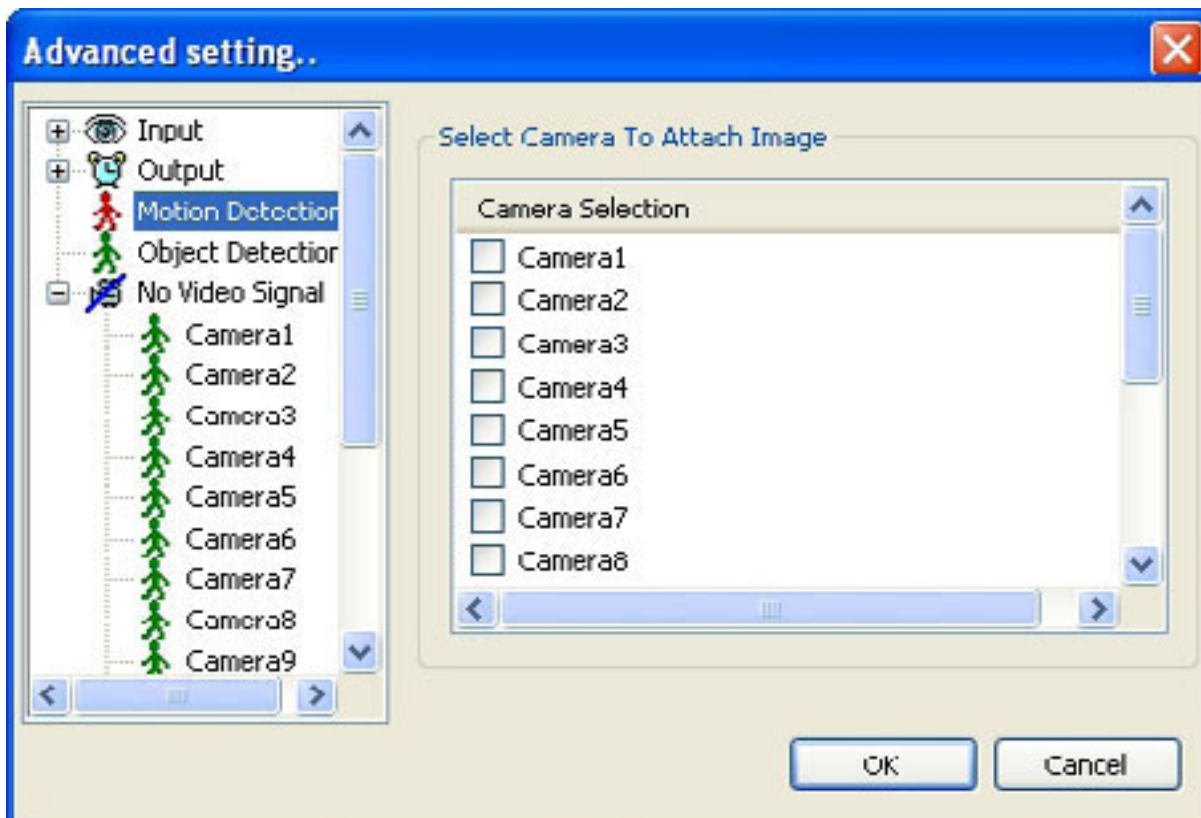
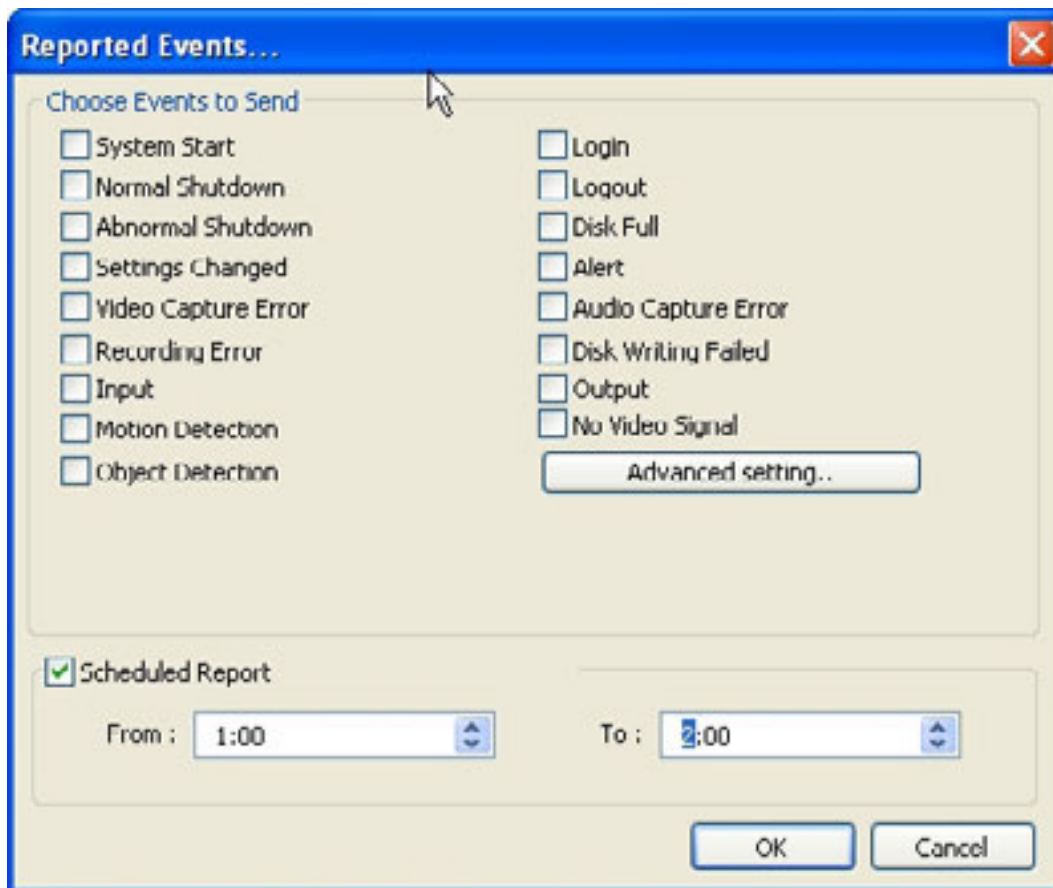


E-mail is a function that enables MagicRadar DVR system to send out e-mails when selected events occur. Check the box and click on "Properties" for setup.

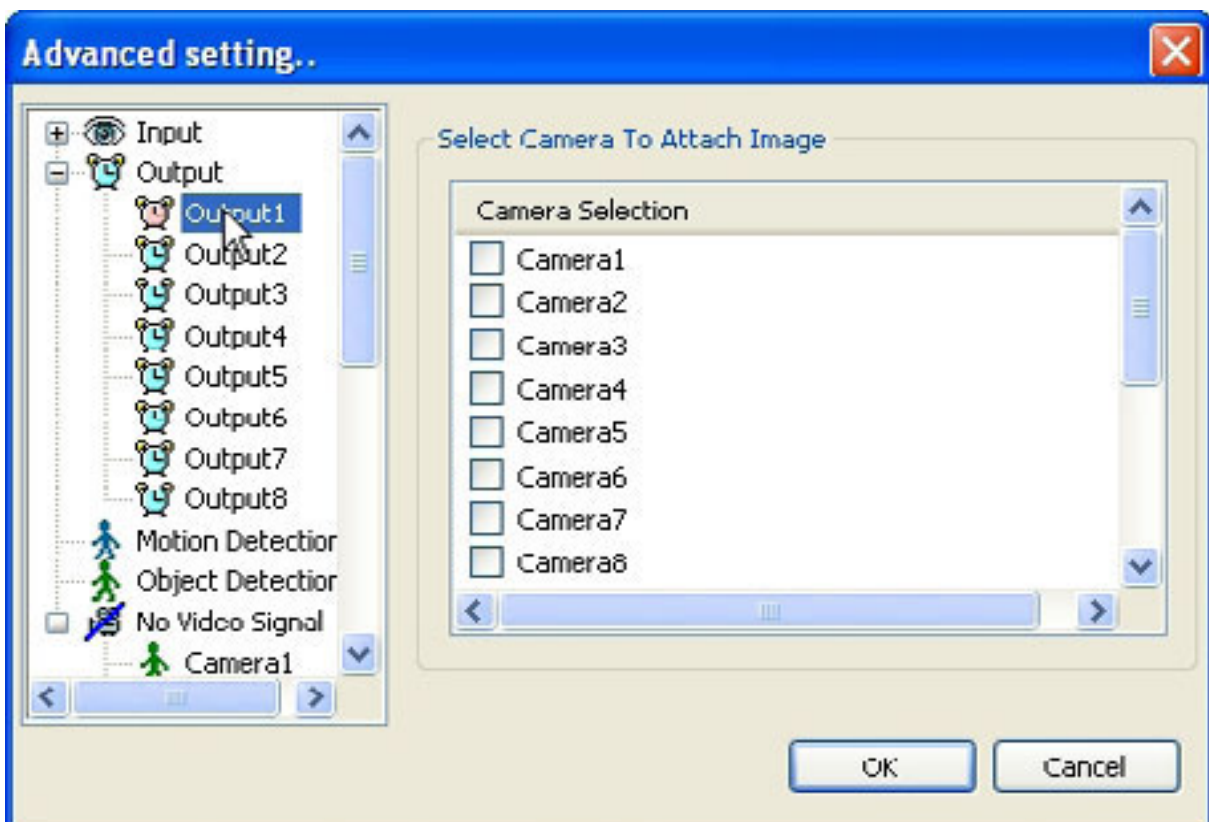
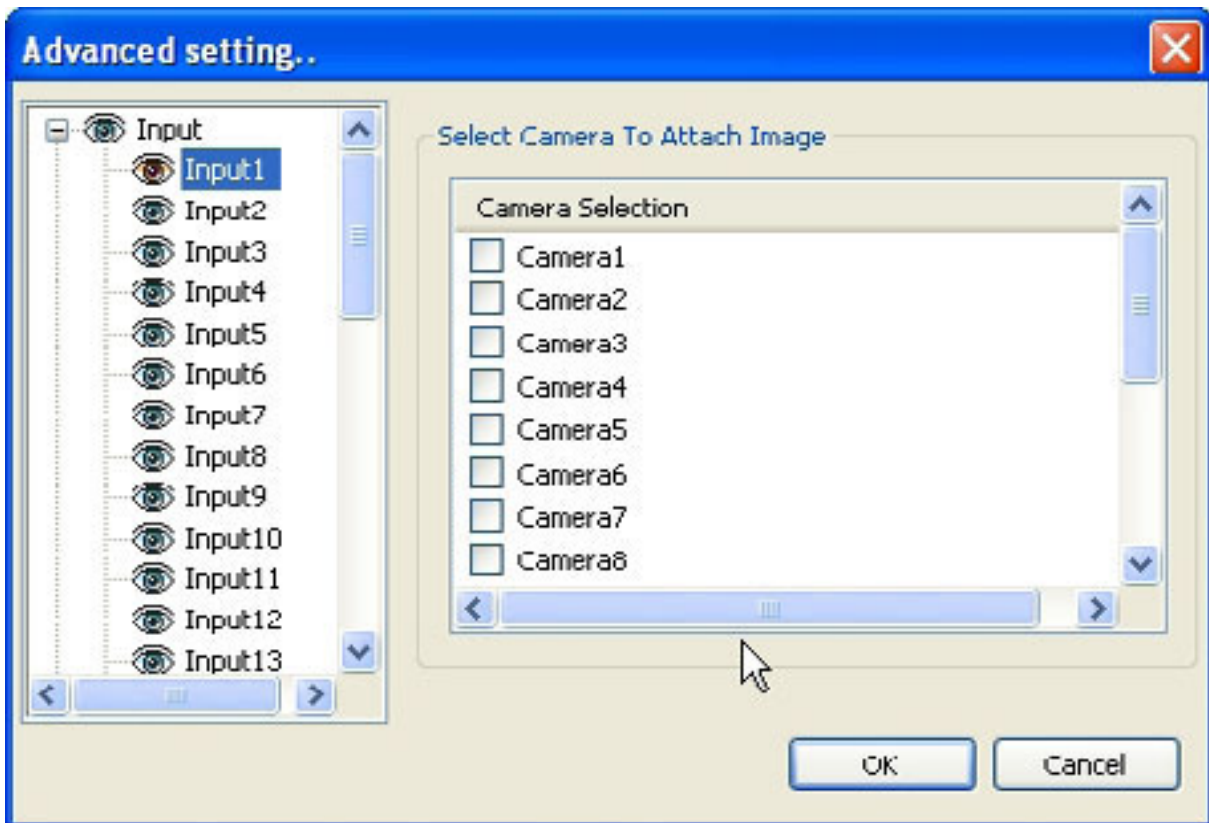


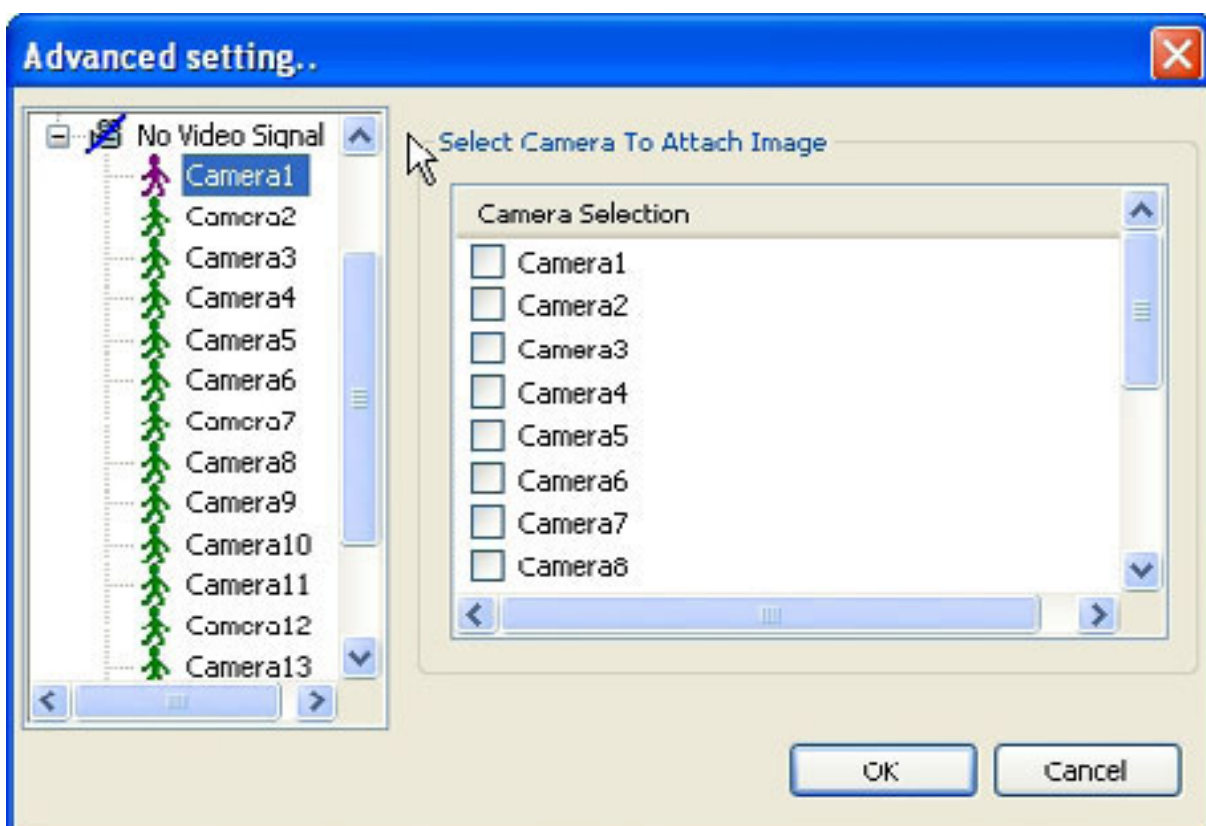
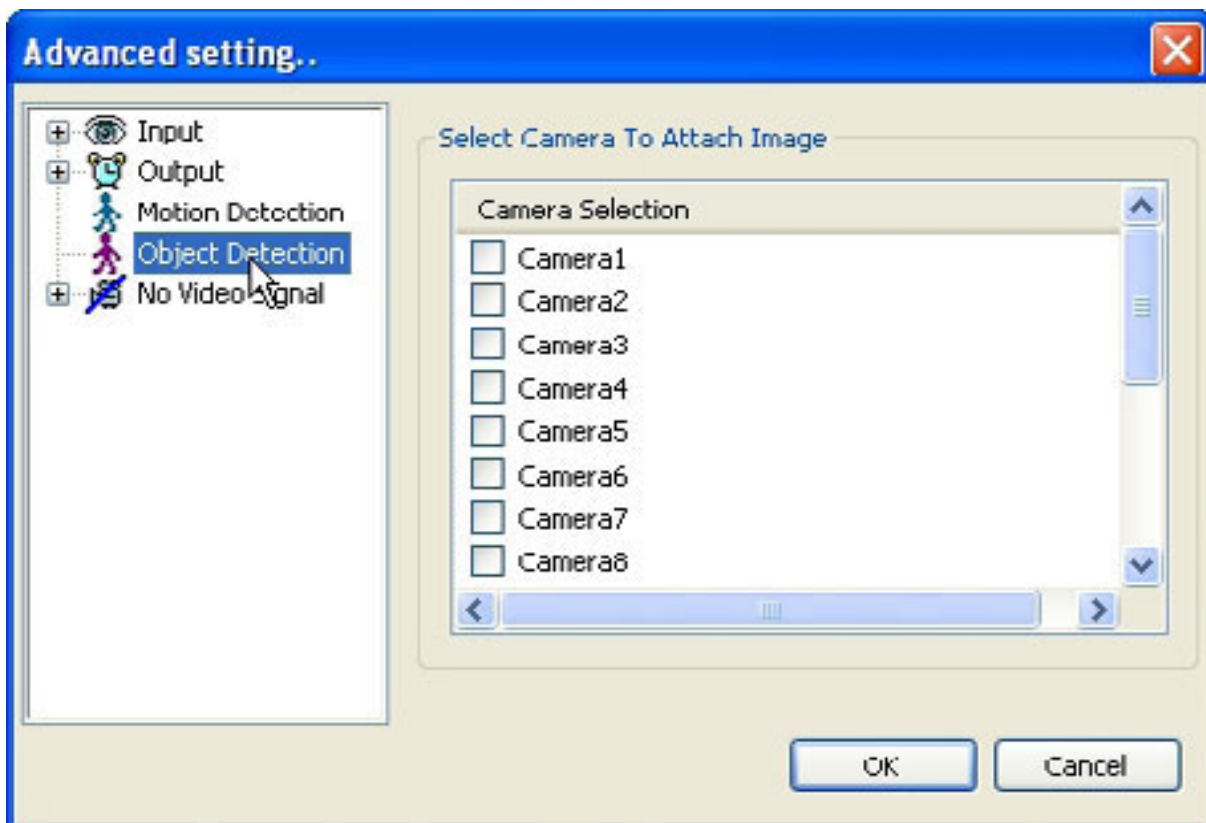
**Note:** Some e-mail servers may require authentication for ID and PW.

Make sure to put in the right IP address of SMTP server. Then, click on "Reported Events" for more setup. The "Reported Events" menu is the same as Central Station.

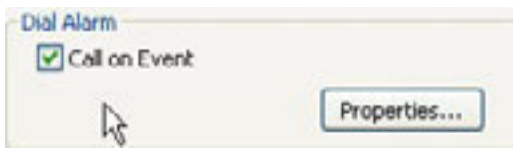


Send camera(s) to send out image(s) when the event occurs.

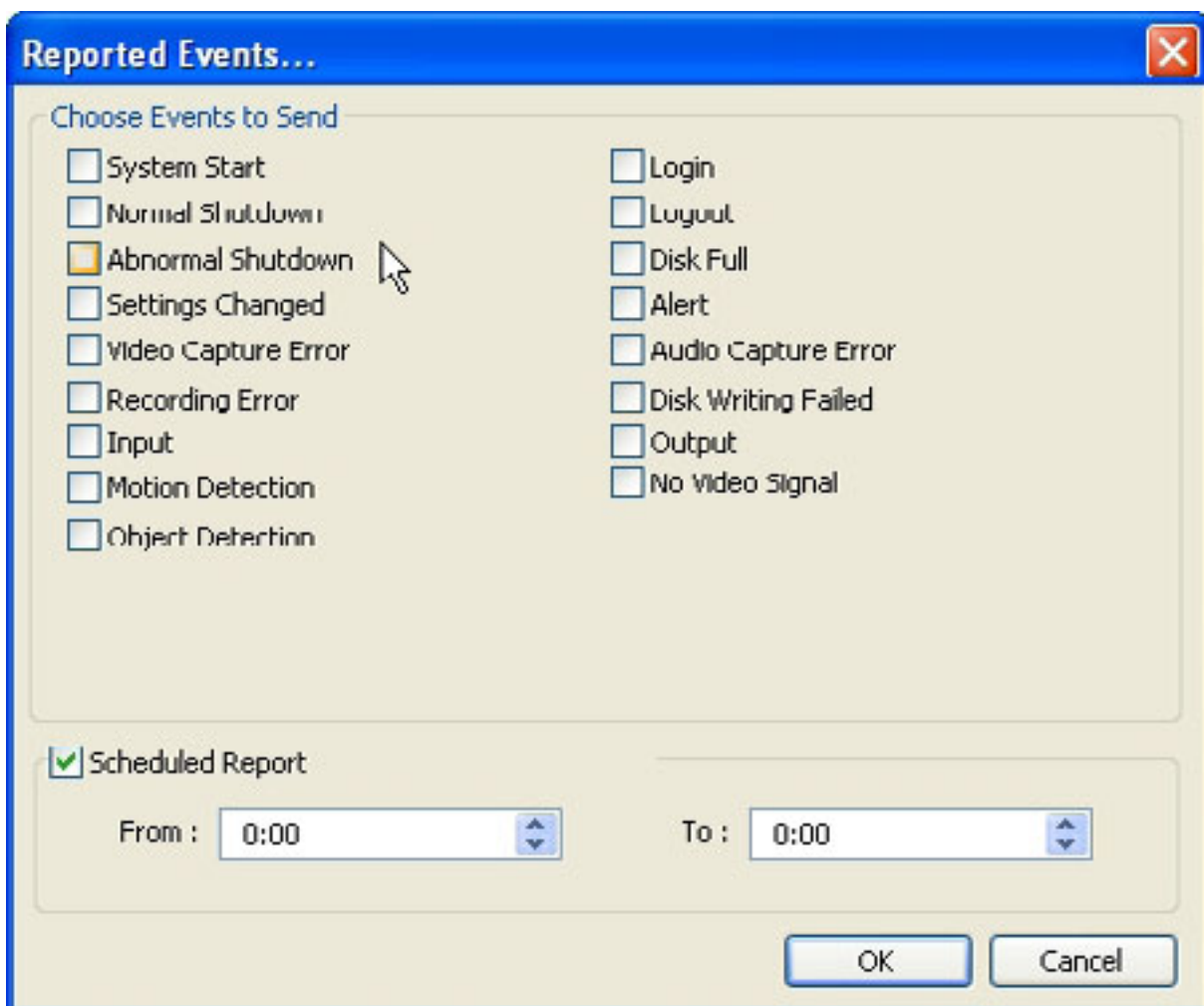
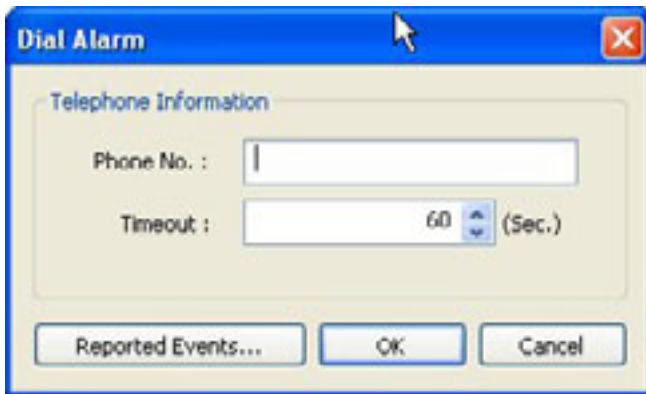




## • Dial Alarm



“Dial Alarm” is a function that enables MagicRadar DVR system to call out on selected events. Check the box and click on “Properties” for setup.

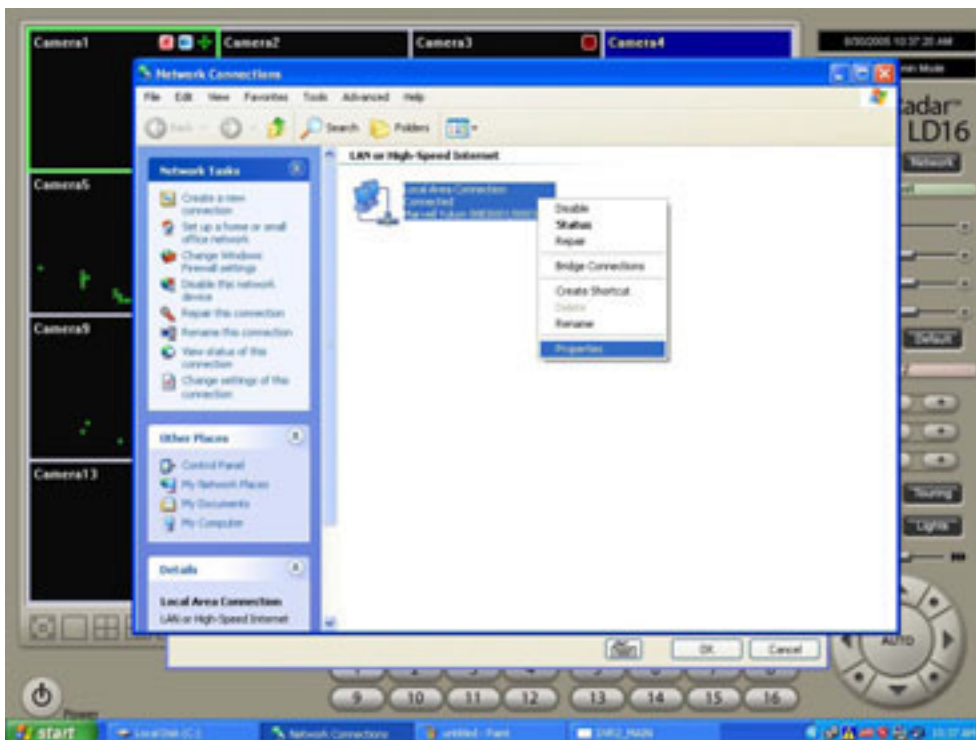
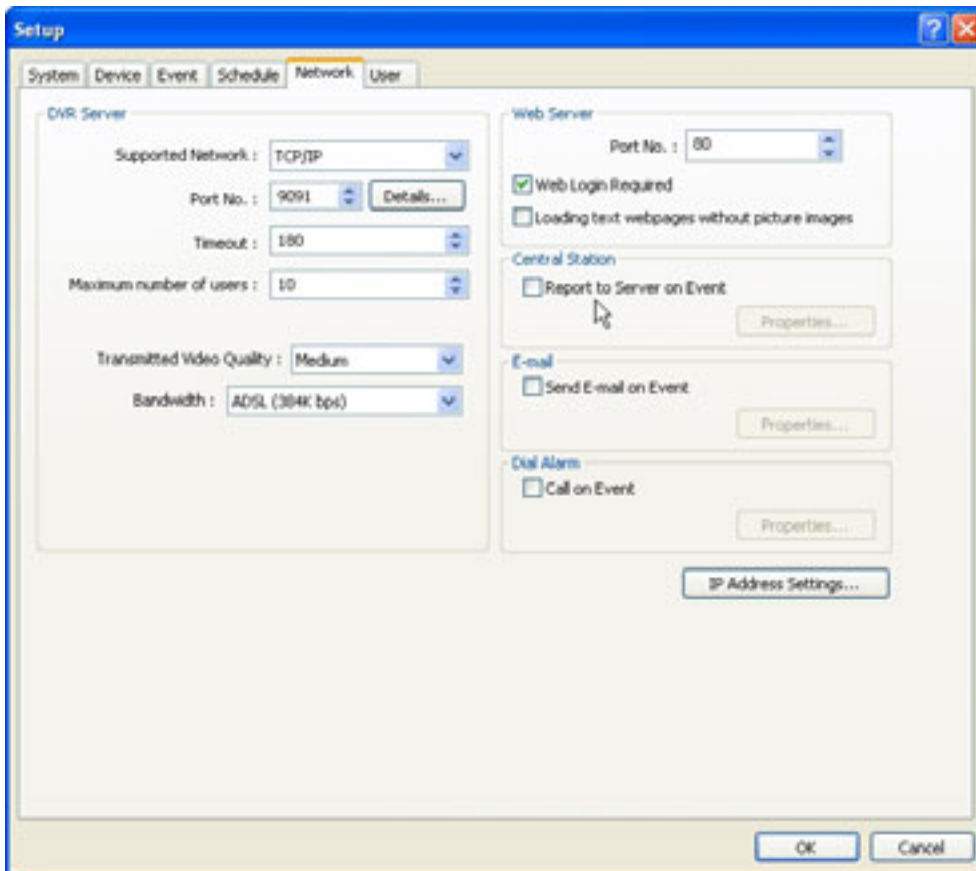


Modem card must be installed inside MagicRadar DVR system to make this function work. Type in phone (mobile) number to report. Click on “Reported Events” (same setup as Central Station) for more setup.

## • IP Address Setup

IP Address Settings...

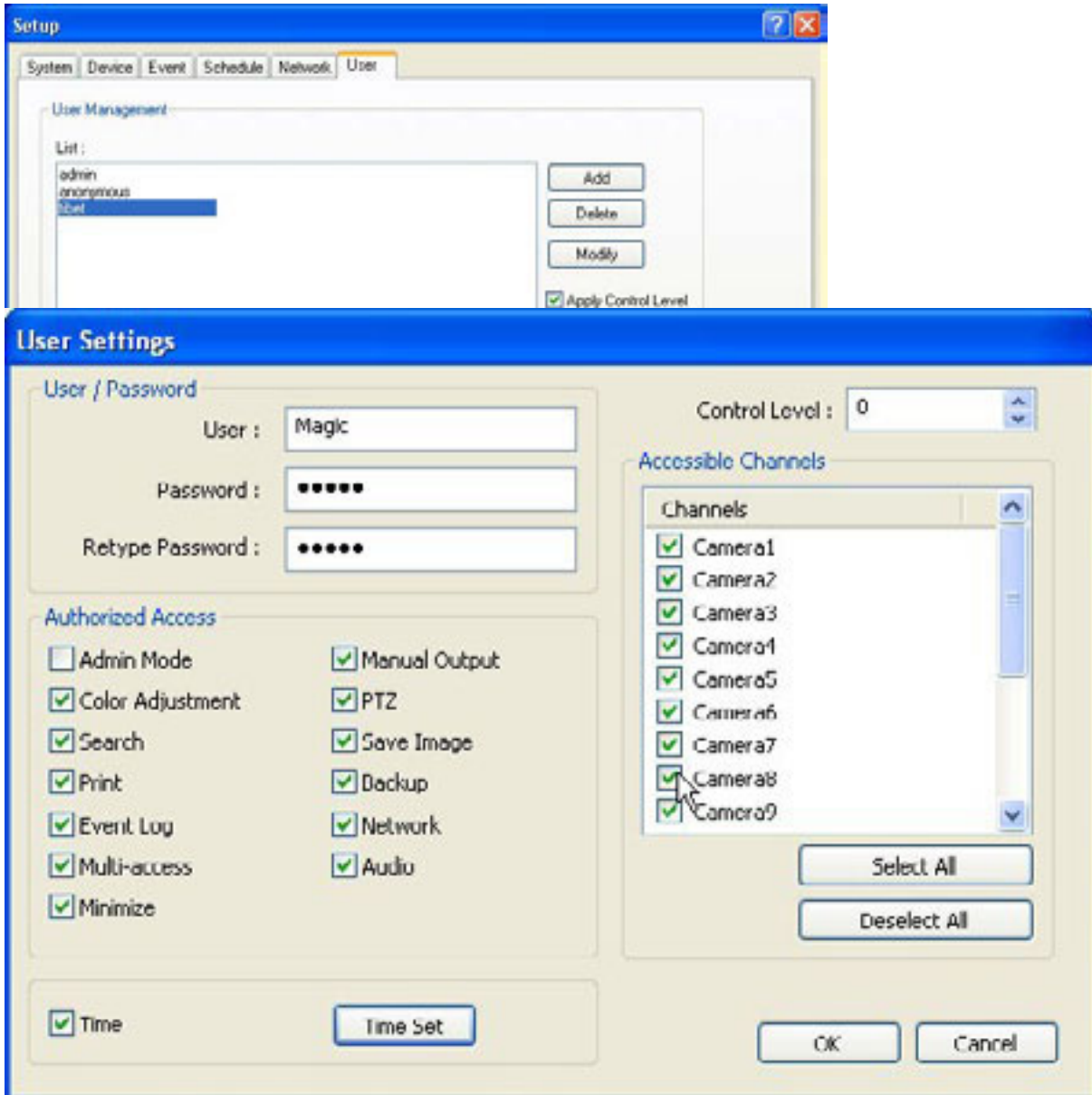
Clicking "IP Address Setting" will open a window for Network Connections as below.



Click right mouse and select Properties for IP setup for MagicRadar DVR's network functions.

## (6) User

Users can be added, deleted or modified with different authorized access and control levels. There are no limits in the number of users created.



**Authorized Access:** Checked functions will be allowed to access remotely.

**Accessible Channels:** Checked channels will be allow to view remotely.

**Control Level:** The lowest number will be allowed to have the first priority to set up, control, etc remotely.

**Admin Mode:** A user who can go into the setup and program (given the same authorization as "Admin").

Only one user with "Admin Mode" can log in remotely.

**Network:** If checked, remote access authorization will be given.

**Multi-access:** If checked, multi-users with the same user name can log in remotely at the same time.

**Minimize:** An authority that can minimize S/W.

**Time Set :**

It's a function that enables Administrator to set time for certain users to log in only for the time allowed.

# CHAPTER 4

## View Log Application(Status)



### 1. Screen Features

Recording Camera: It shows recording status.

Sensor Detection: It shows sensor detection status.

Motion Detection: It shows motion detection status.

Alarm: It shows alarm activation status.

HDD Capacity: It shows HDD capacity used for recording.

Event: It shows events occurred.

Event Log: It shows all the previous events occurred by date.

## (1) Event Log

The screenshot shows the 'Event' window in the MagicRadar LD16 interface. The window has three tabs: 'Event Log', 'Network Client Log', and 'Status of the HDD'. The 'Event Log' tab is active, showing a calendar for September 2007 with the 17th selected. Below the calendar, there is a checkbox for 'Using Event Log Retain' which is checked, and a dropdown menu for 'Event Log Retain(Month)' set to 3. There are buttons for 'Print', 'Save as...', 'Delete All Logs', and 'Delete This Log'. Below these buttons is a table with columns for 'Motion Detection', 'Output Selection', 'Input Selection', and 'General'. The table contains a list of events with columns for 'Time Of Occurred Event', 'Time Of ended Event', and 'Camera Selection'. The background interface shows the 'Server Admin Mode' status, 'MagicRadar LD16' branding, and various status indicators for recording, sensor detection, motion detection, and alarm. The HDD storage is shown as 74% used. The bottom of the interface features a camera selection keypad with buttons 1 through 16, and a power button.

Motion Detection	Output Selection	Input Selection	General
		Time Of Occurred Event	Time Of ended Event
		17:46:28	17:46:44
		17:46:28	17:46:44
		17:46:29	17:46:44
		17:46:44	17:46:59
		17:46:44	17:46:59
		17:46:48	17:46:57
		17:47:14	17:47:42
		17:47:16	17:47:32
		17:47:16	17:47:32
		17:47:18	17:47:32
		17:47:46	17:48:06
		17:47:50	17:48:11
		17:47:50	17:48:11
		17:47:50	17:48:00
		17:48:07	17:48:19
		17:48:14	17:48:14

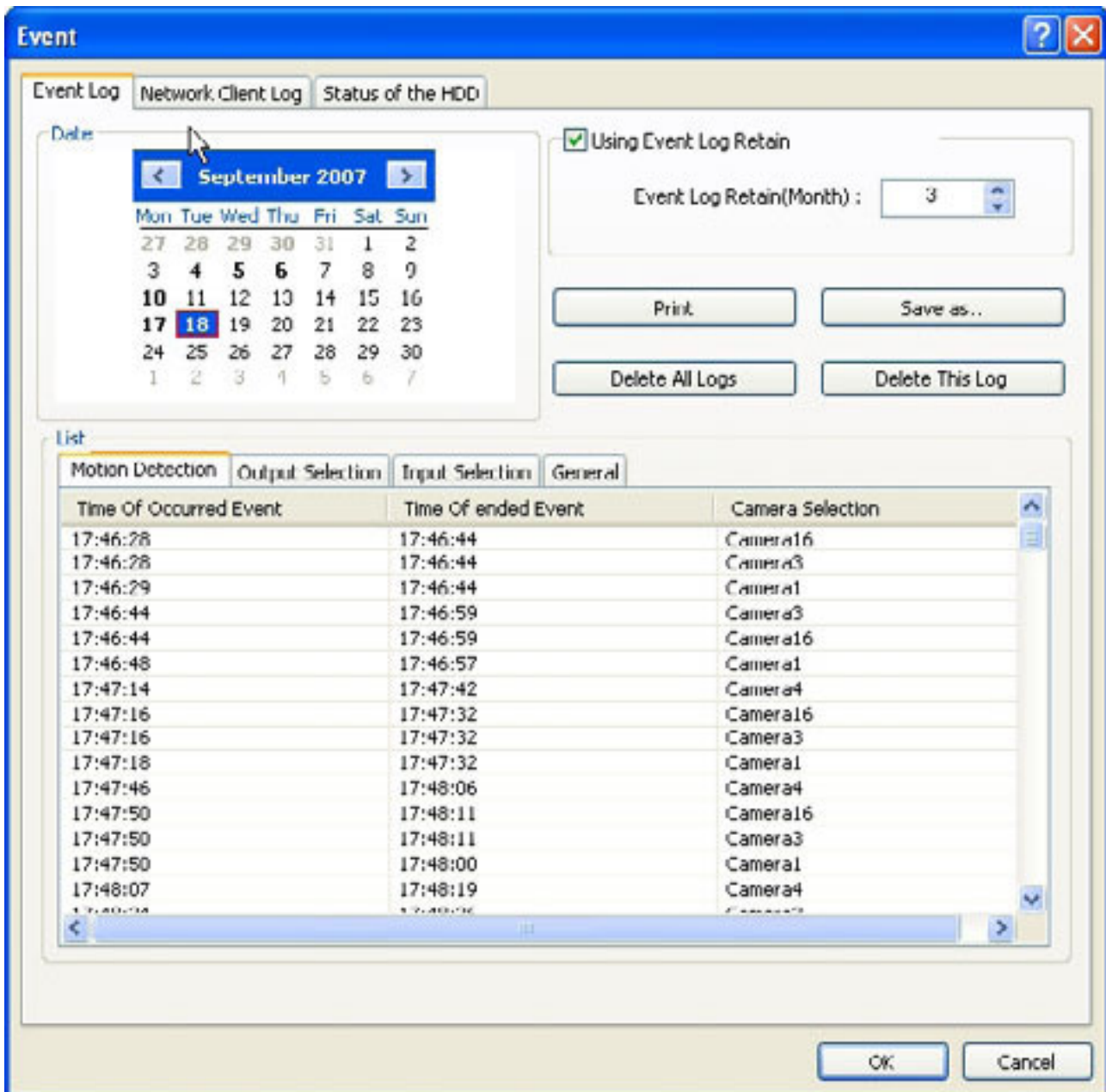
Event search is classified by motion detection, output, input and general.

Event occurred time and ended time by camera are displayed simply on the table.

Printing, saving of saved event list and managing the list are available in the 'Event Search' menu.

Checking access network user and its time is available. It is also possible to check HDD health.

## • Motion Detection



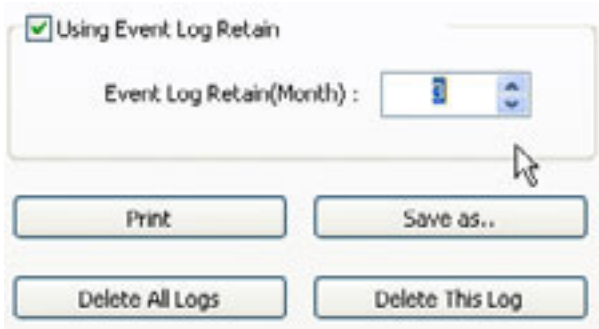
**Motion Detection:** Occurred and ended time of motion detection event is displayed on the table prominently with camera info.

### Caution

1. Remote client software and server version needs to be the same as 5.2.0.0.

There is a problem in computability with server if client version is not 5.2.0.0. Upgrading client software to 5.2.0.0 is highly recommended.

2. Log saved separately to manage "Event Log" efficiently. Viewer program is required to maintain "Event Log".



**Using Event Log Retain:** Event log can be saved into DVR automatically from 1 to 12 months and its default setting is 3 months. It is to avoid overloading of event log.

**Example:** If it sets 3 months and it is 20th of August today. It deletes data before 20th of May.

**Date:** All dates with events will be marked in bold numbers.

**List:** All events for a certain selected date will be shown.

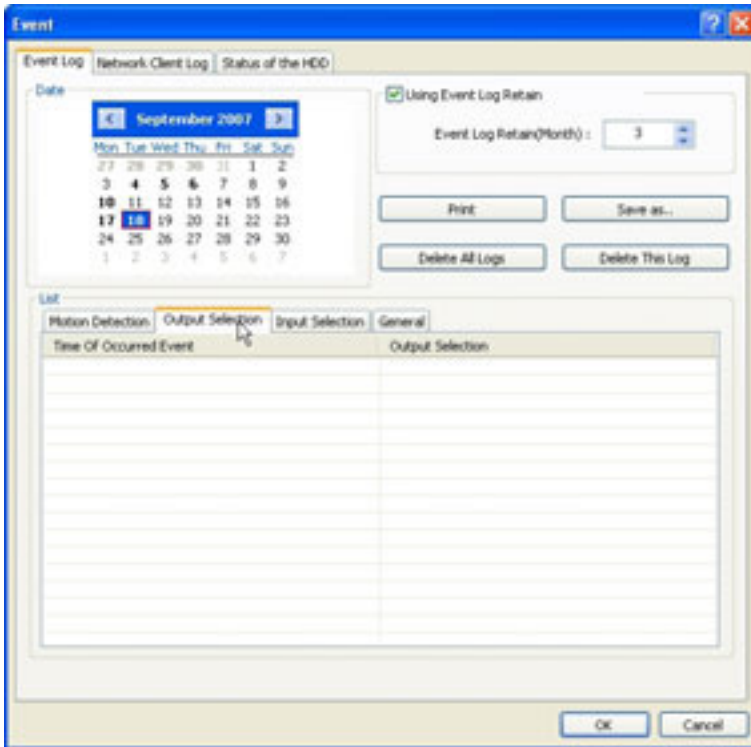
**Delete All Logs:** If clicked, all the previous records will be deleted.

**Delete This Log:** If clicked, only the events for a certain selected date will be deleted.

**Print:** Print the event log of a selected date.

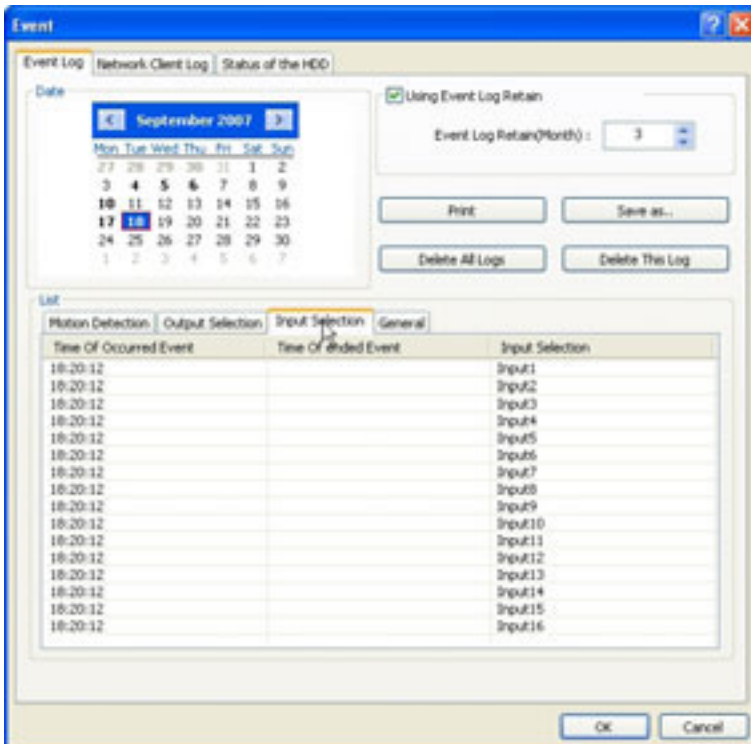
**Save as:** Save an event log of selected date with text file.

- **Output Selection**



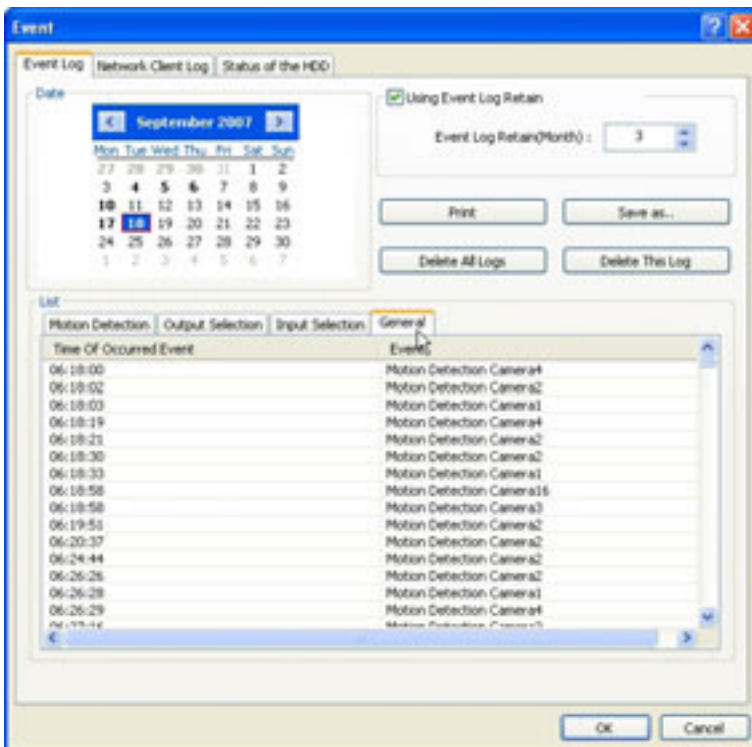
**Output Selection:** Occurred time of event from output device is displayed on the table prominently with output device info.

- **Input Selection**



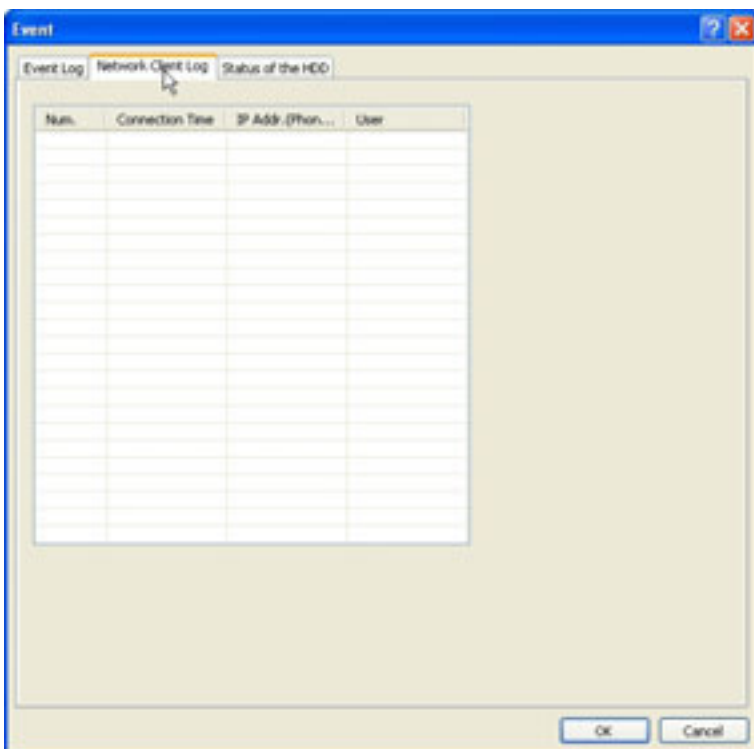
**Input Selection:** Occurred time of event from input device is displayed on the table prominently with input device info.

- General



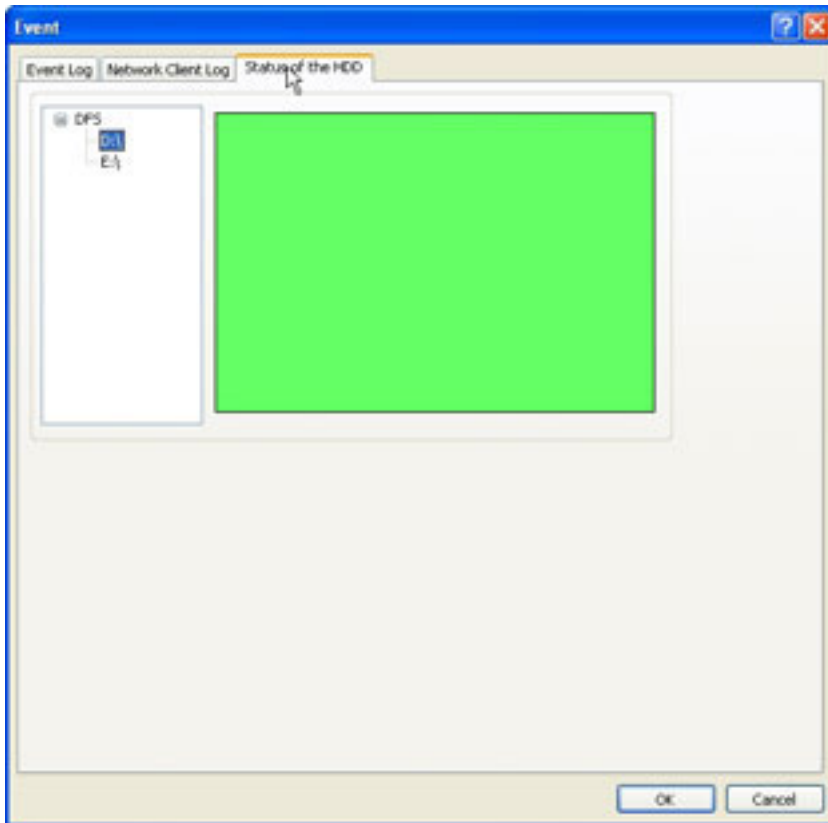
**General:** Occurred time of events from all connected devices are displayed on the table prominently with each device info.

## (2) Network Client Log

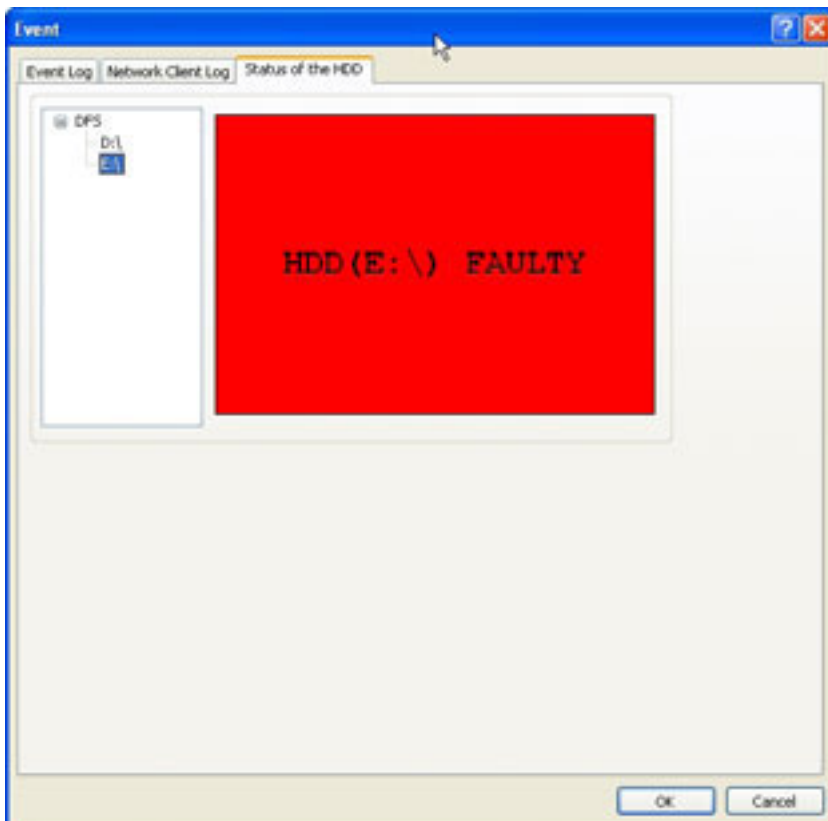


**Network Client Log:** Remote login records will be also kept on DVR server. Checking accessed network user, connected time and IP address are available.

### (3) Status of the HDD

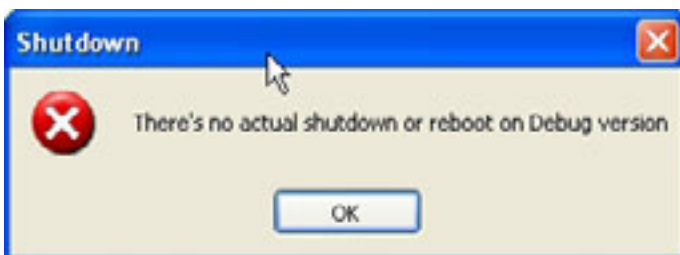


Every 5 hour DVR checks the status of HDD and shows its condition with different colors.  
Green: okay    Yellow: Faulty is going on.    Red: Completely fault.





If HDD is completely fault, POPUP menu as above will be shown.  
It rests till the system shuts down, and it shuts down below message will be appeared.



# CHAPTER 5

## Playback Application



### 1. Search Features 1

**Calendar:** All dates with recorded data will be marked in bold numbers.

**Blur/Sharp/Normal:** Buttons to adjust sharpness of image

**Zoom:** Buttons to zoom in/out

**Brightness:** buttons to adjust brightness

**Contrast:** buttons to adjust contrast

**Default:** Default for Zoom/Brightness/Contrast

## 2. Search Features 2



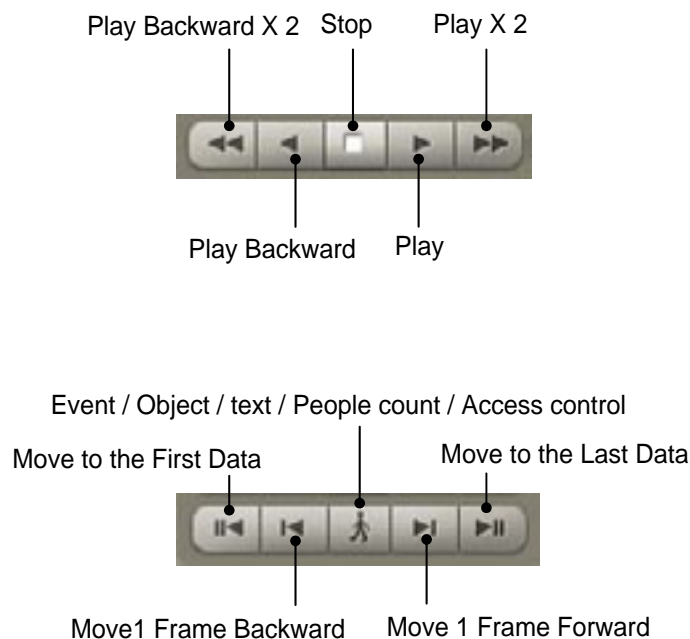
Clicking right mouse on Time bar for Browse... and select a folder containing backup data

### (1) Playback

For playback, simply select date, screen mode (1, 4, 9, 16, etc.), time by one click on the time bar and click the play button.

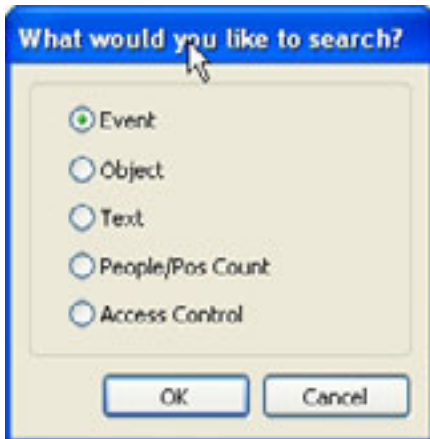
What different colors mean on the time bar:

1. **Blue:** Recorded data by sensor & motion detection
2. **Purple:** Recorded data by 24-hour-recording
3. **White:** No recorded data in all cameras
4. **Gray:** No recorded data for some cameras
5. **Green:** Blue + audio
6. **Light Green:** Purple + audio
7. **Dark Red:** Purple + recorded text data (POS)
8. **Orange:** Even- recorded data with recorded text data.
9. **Dark Yellow:** Event-recorded data + recorded text data + audio
10. **Yellow:** Purple + recorded text data + audio

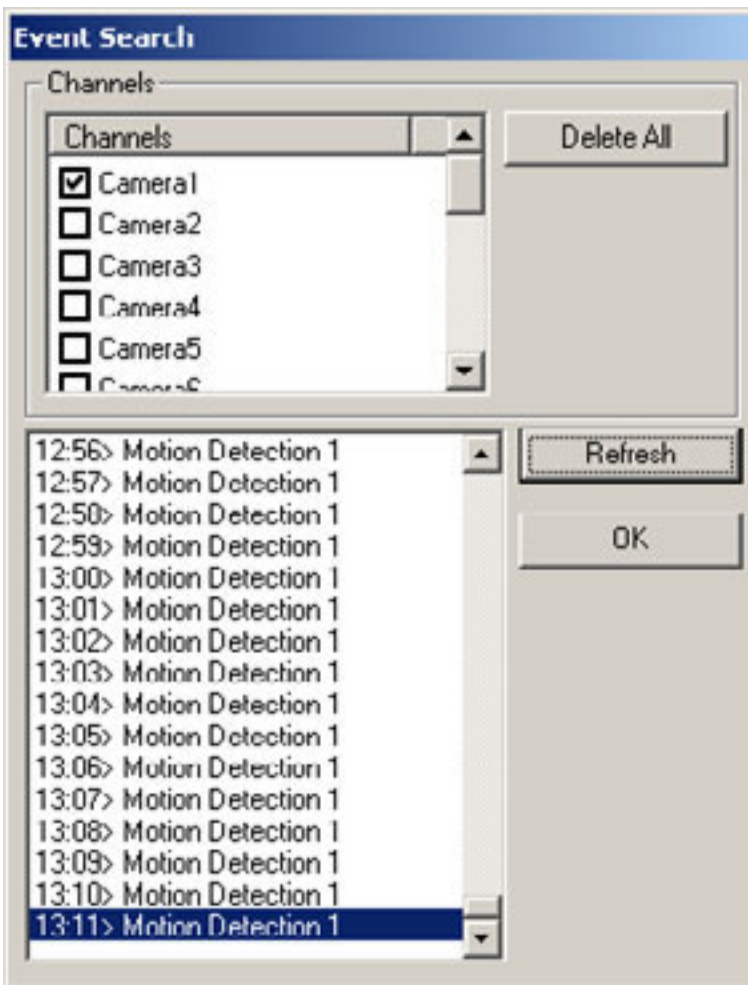


## (2) Event / Object / Text / People Count / Access Control Search

### [Event Search]



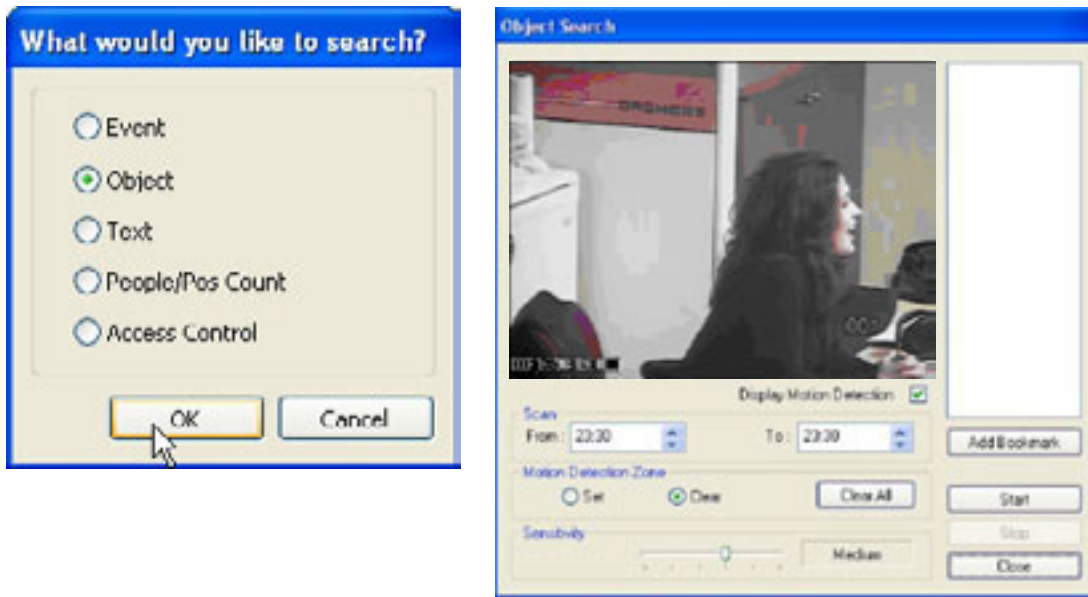
Click the Event / Object / Text / People Count / Access Control Search button and select “Event”.



Select channels for Event Search.

Select one event from the event list and click “OK”, and the selected event will be displayed.

Click Refresh” to update the list.

**[Object Search]**

Object Search is only to search certain selected objects for a certain period of time.

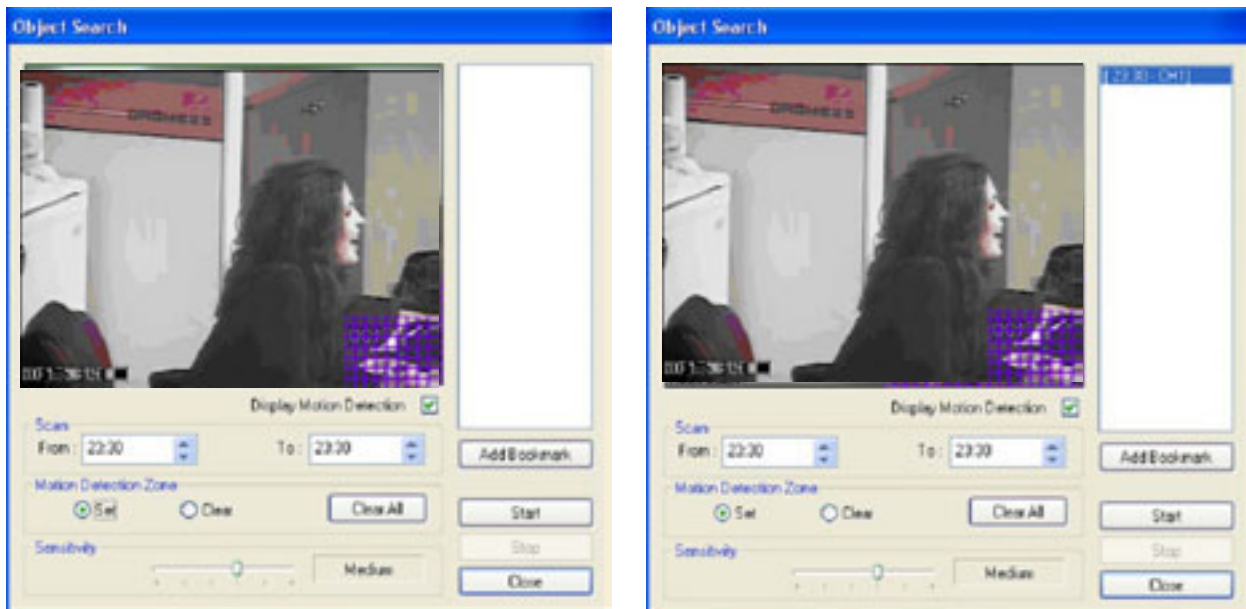
**Scan:** Set the time period for object search

**Motion Detection Zone:** Select "Set" and mark areas for object search by dragging mouse.

"Clear" is used to erase certain areas inside motion detection zones.

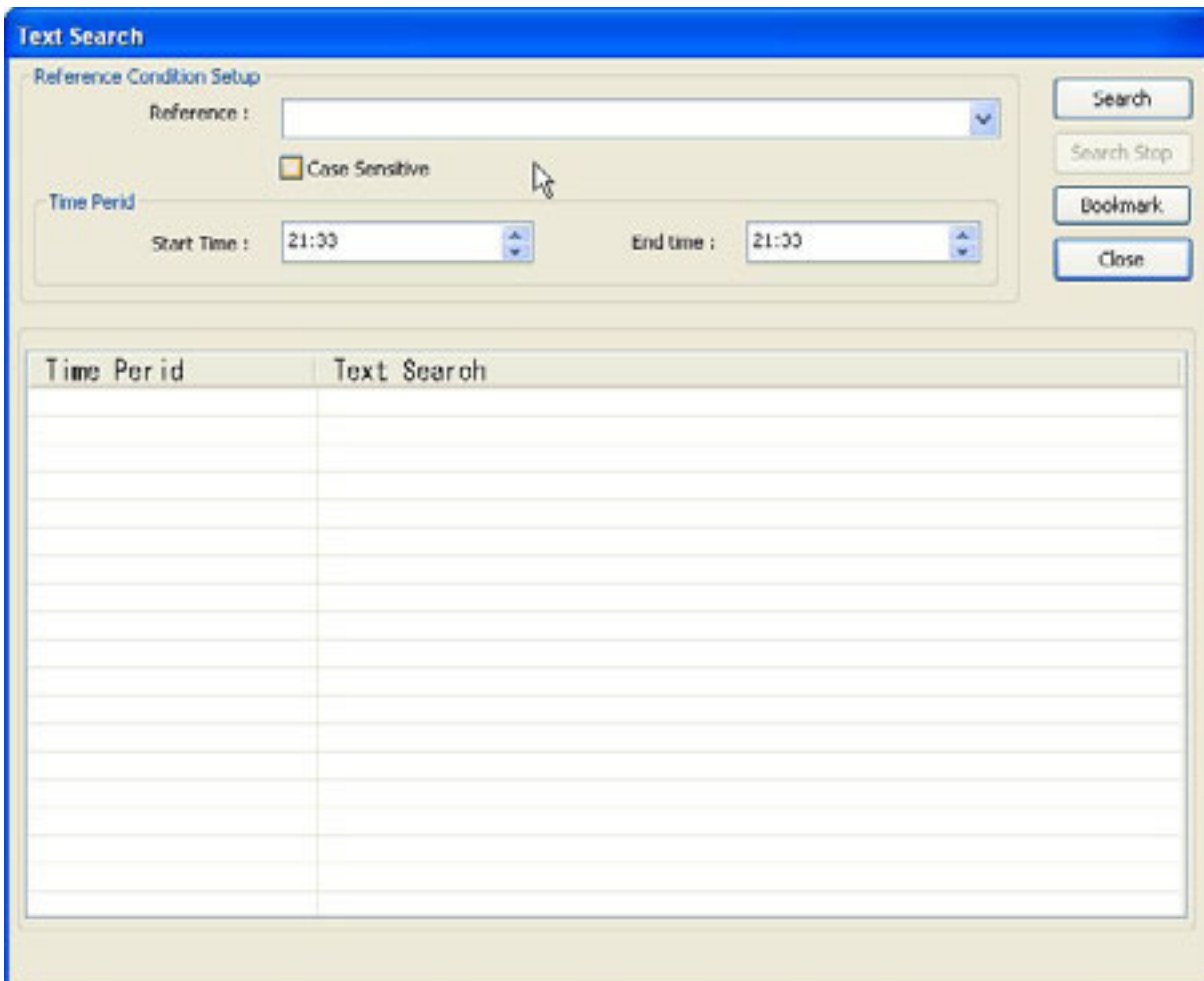
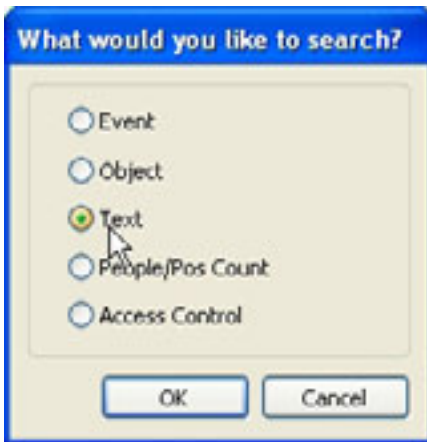
**Sensitivity:** Set motion detection sensitivity level.

**Clear All:** Click on it to clear all the motion detection zones set.



## [Text Search]

It is to search POS text data with image according to selected time period and item.

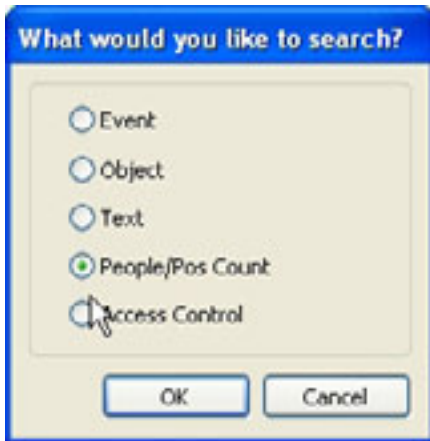


Put in an item (Reference), select time period and click on "Search", and a list with transactions will be displayed.

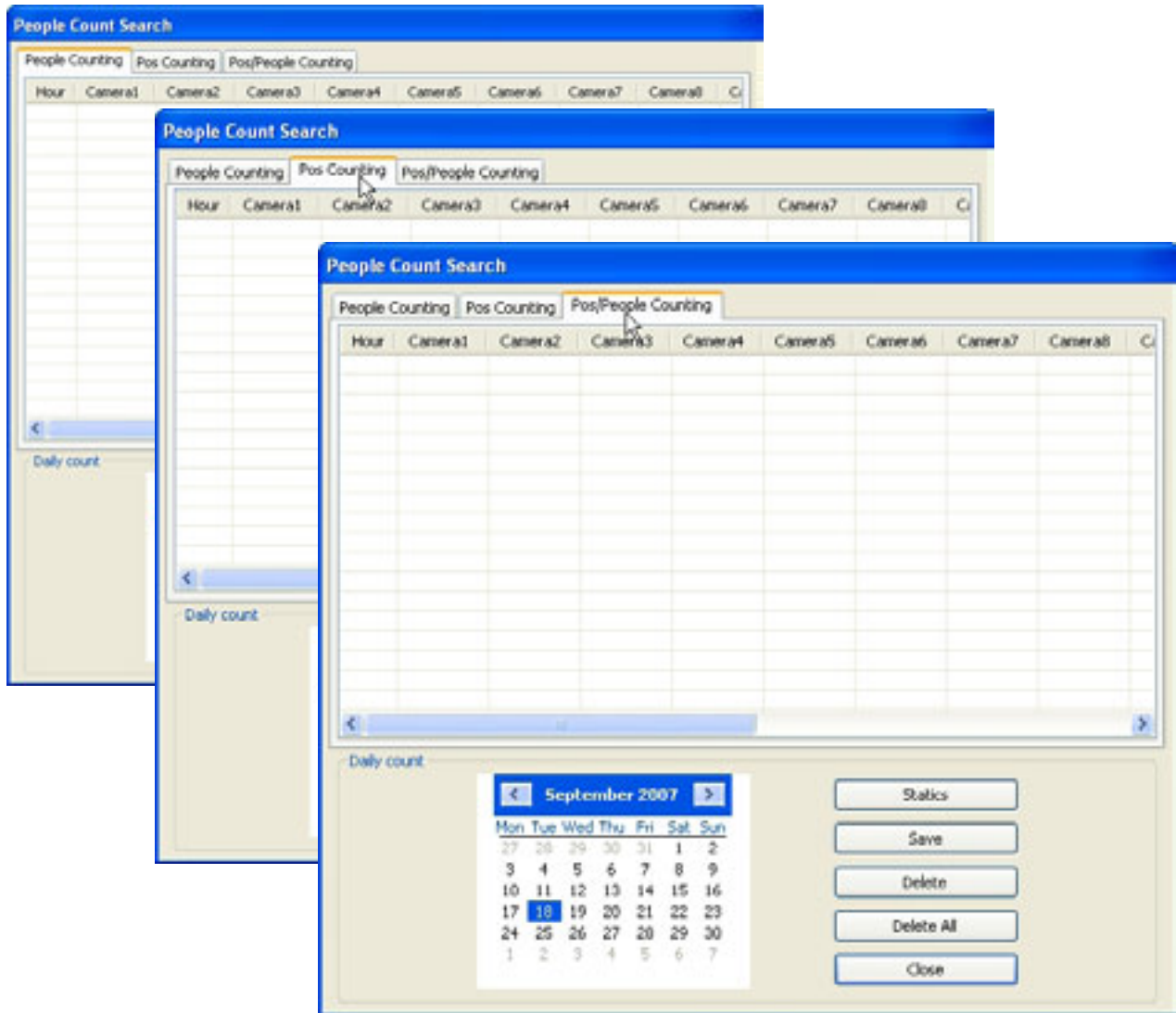
- Searched words will be retained in the combo box in down-list format so the data can be easily shown in next search.

### [People / POS Count Search]

It is to search people/POS count statistics according to selected time period & camera. Through this function, the results of people count and POS transaction can be analyzed by the hour and cameras.



Select date, camera & time, and statistics will be shown as below. Statistics are distinguished as People Counting, POS Counting, and POS/People Counting. Statistics can also be saved as text file.



## People Count Search

### 1. People Counting:

It shows counted people number in certain zones by Hour and Cameras on the table.

### 2. POS Counting:

Counting It shows received POS data number in DVR by Hour and Cameras on the table.

### 3. POS/People Counting:

It shows both counted People and received POS data number on the table.

### 4. Delete/Delete All:

To erase data in statistics

People count statistics

Camera

- Camera1
- Camera2
- Camera3
- Camera4
- Camera5
- Camera6
- Camera7
- Camera8

Hour

- Hour0
- Hour1
- Hour2
- Hour3
- Hour4
- Hour5
- Hour6
- Hour7

Start: 2007-09-13

End: 2007-09-10

Camera All

Hour All

Result

Total Transaction: 0

Total Count: 0

Search

Close

### Statistics

1. **Camera/Hour:** Select camera and hour wish to search
2. **Start/End:** Select date wish to search
3. **Camera All/Hour All:** Click it to select all cameras and hour.
4. **Total Transaction:** Results after searching transaction count in total
5. **Total Count:** Results after searching people count in total
6. **Search:** Click it to start search
7. **Close:** Click it to close the menu.

People Count Save

Select

- People count
- Pos count
- Pos/People count

Time Period

Start : 18/09/2007

End : 18/09/2007

Save

Close

### Save

1. **Select:** Select menu wish to save.
2. **Time Period:** Select date wish to save.



### How to read data and graph

1. Counted number of (T)ransaction/ Counted number of (P)eople count

2. 

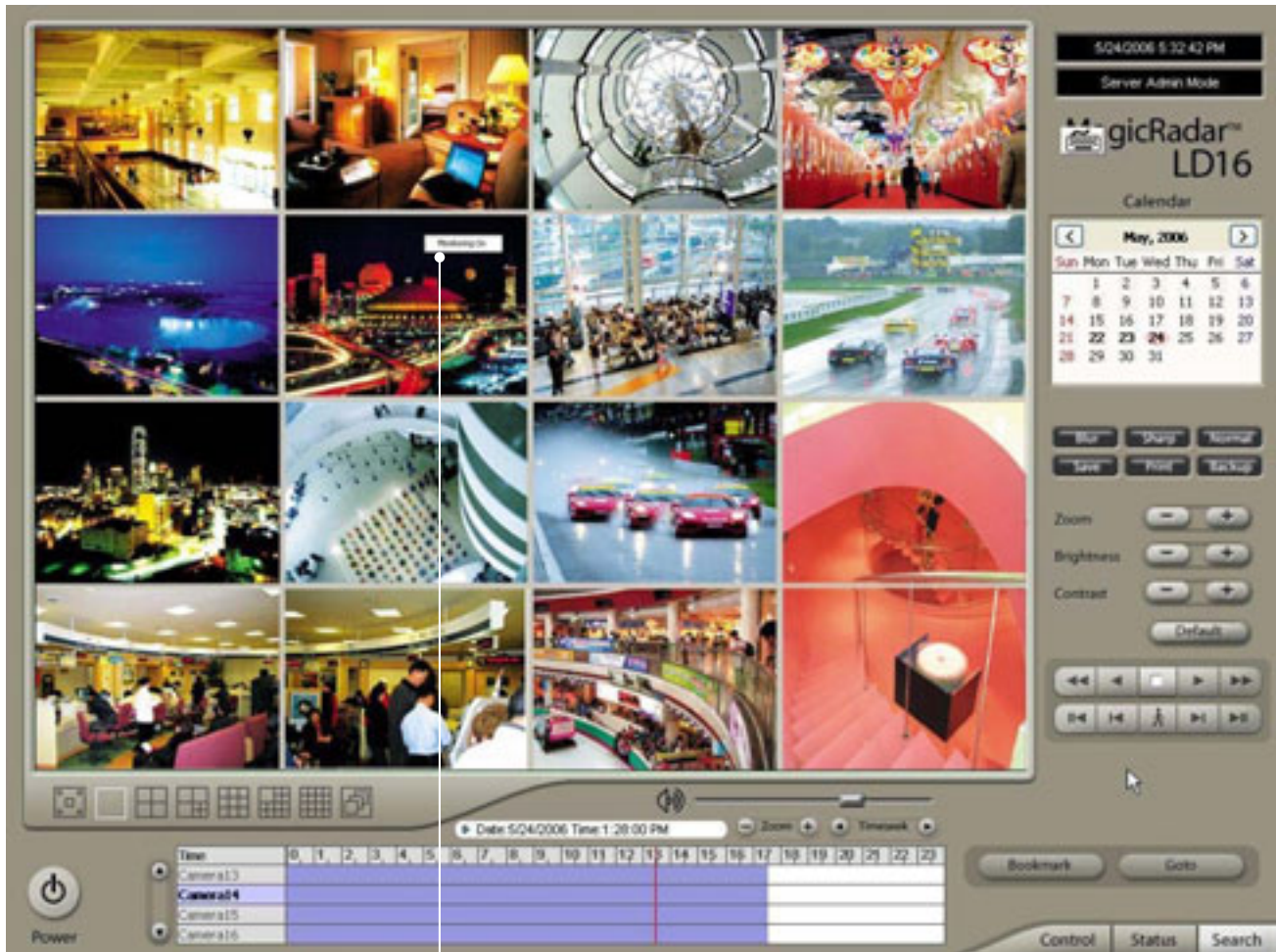
**Red Color:** Rate of people count

**Green Color:** Rate of Transaction

The Pie Graph will show at a glance how many transactions have been performed, compared to the number of people counted.

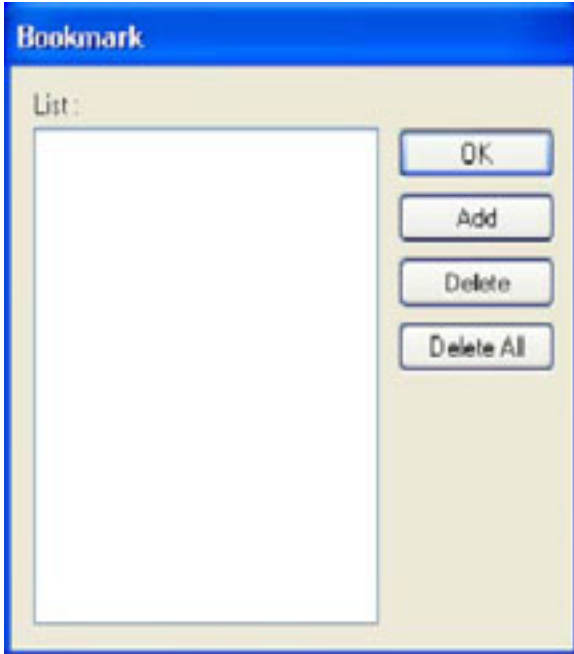
### (3) Monitoring & Searching

It is a feature that enables user to view live video while searching recorded data.

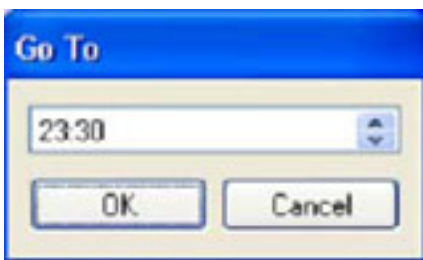


Click the right mouse and select "Monitoring On" to view live video. Click the right mouse again and select "Monitoring Off" to go back to "Search Mode".

#### (4) Bookmark & Go To



**Bookmark (Favorites):**  
Added data from "Object Search" are stored here.



**Go To:**  
Select desired time to search and click "OK".

**(5) Save**

Watermark(Image)

**Using Watermark (Image):** To attach a certain logo or special picture on AVI file.

**AVI:** For saving motion pictures and audio

**BMP:** For saving images. Watermarked images can be saved.

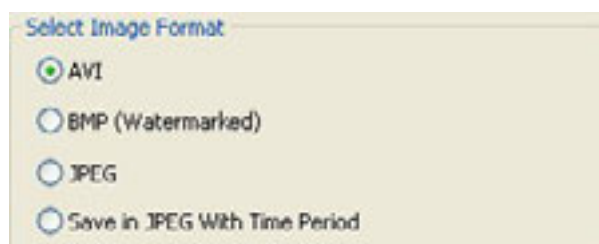
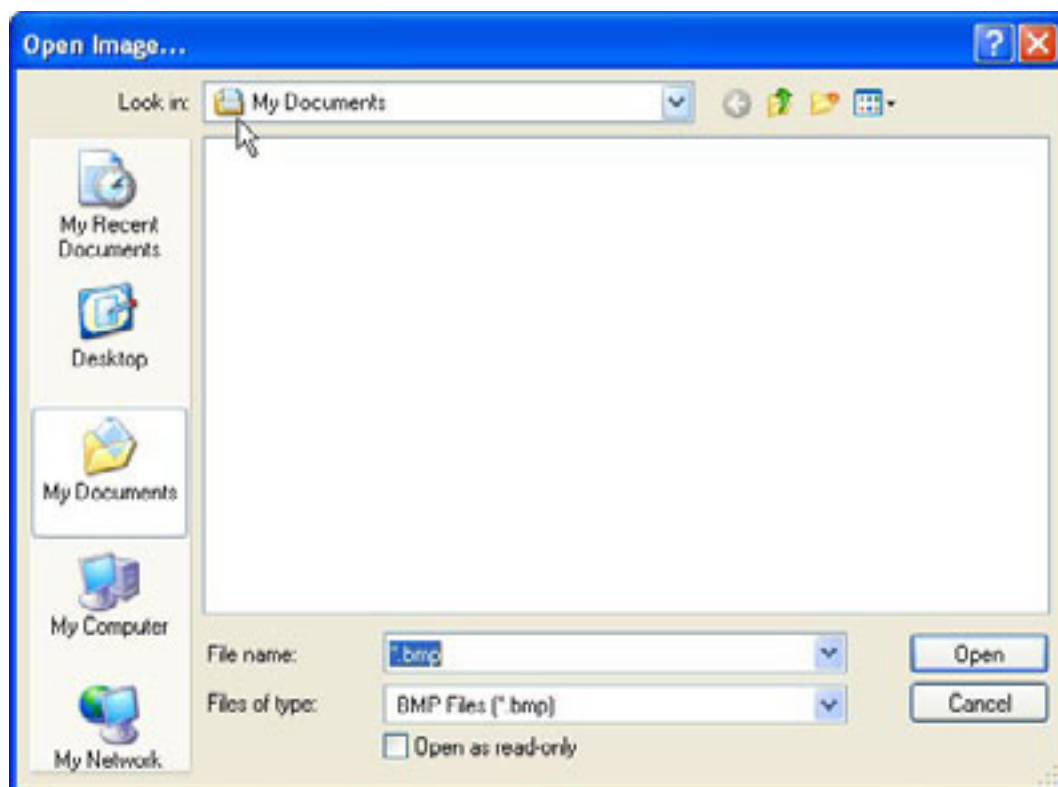
**JPEG:** For saving regular still images. Quality is not as good as BMP but less HDD is used.

**Save in JPEG with Time Period:** For scheduled save in JPEG

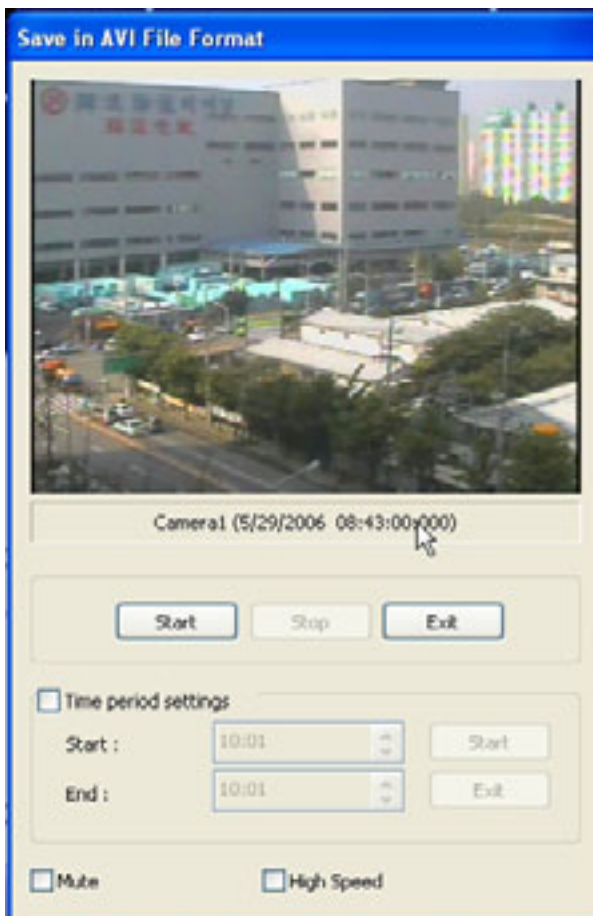


• Watermark Setting

Select each for desirable watermark setting.



Click on "Browse" to find watermark image or logo.

**[Save in AVI Format]**

Click "Start" to start saving and "Stop" to stop saving.

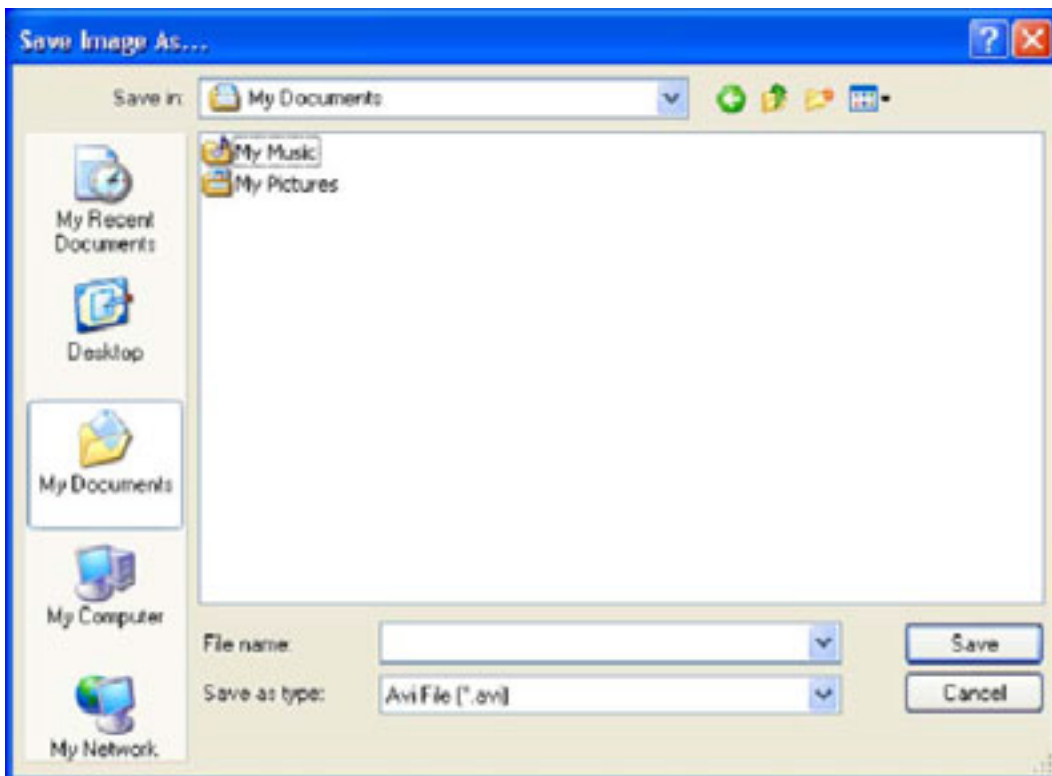
**Mute:**

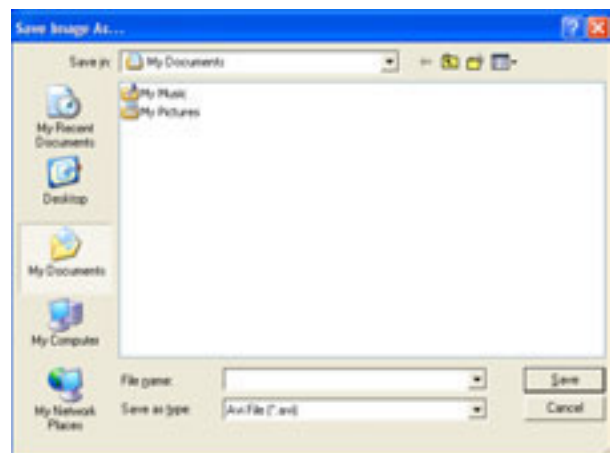
Saving video only (no audio)

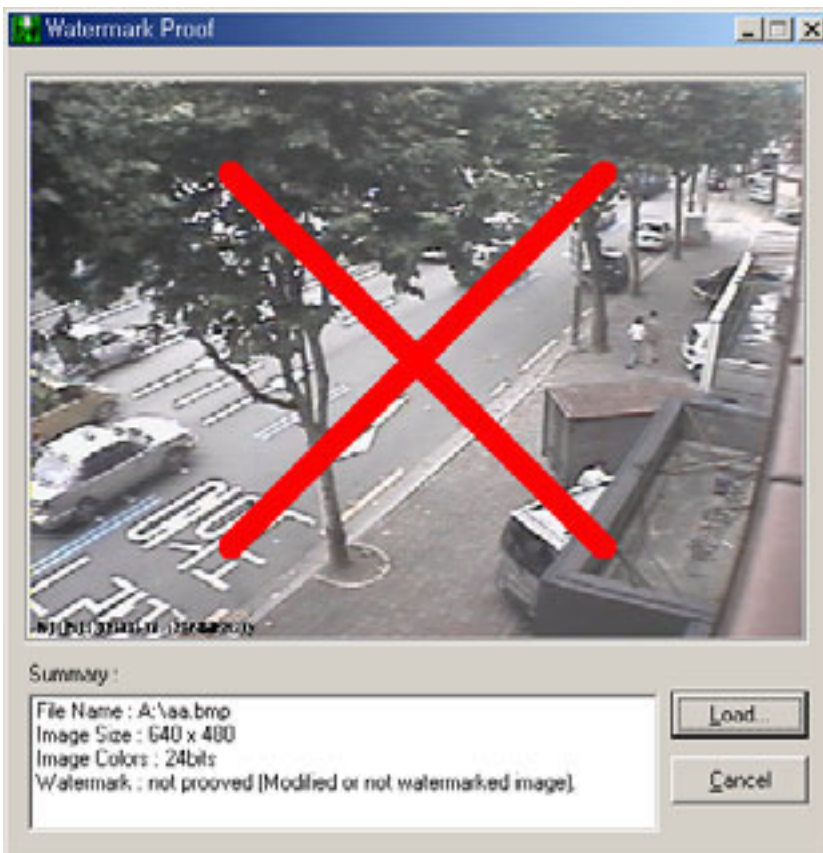
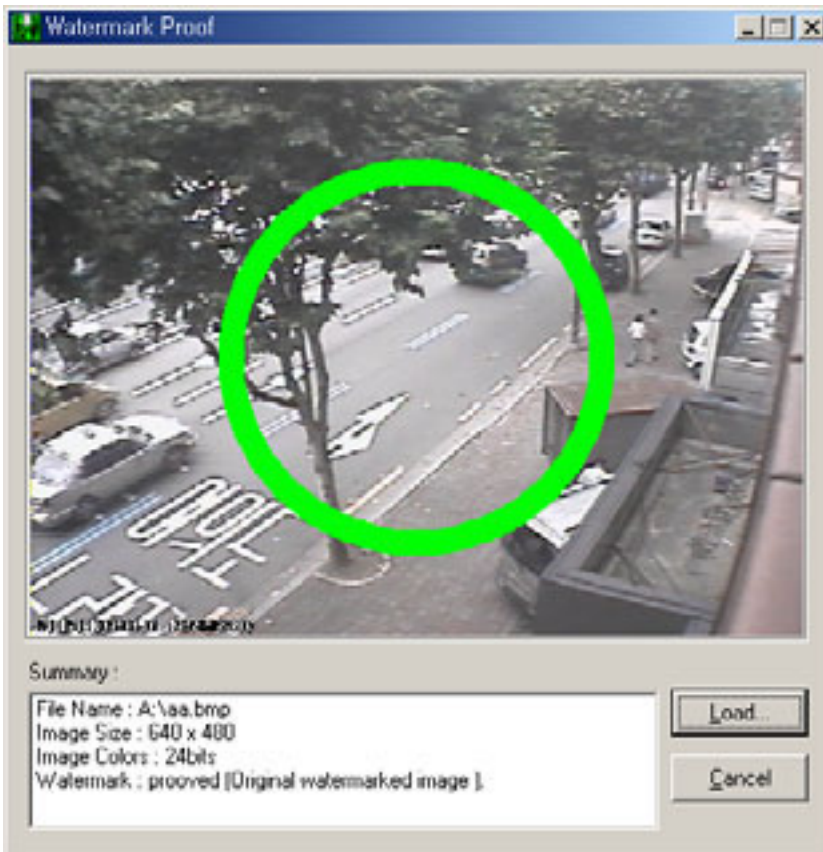
**High Speed:**

Saving in high speed

Click time period settings and put the time period that you want to save.



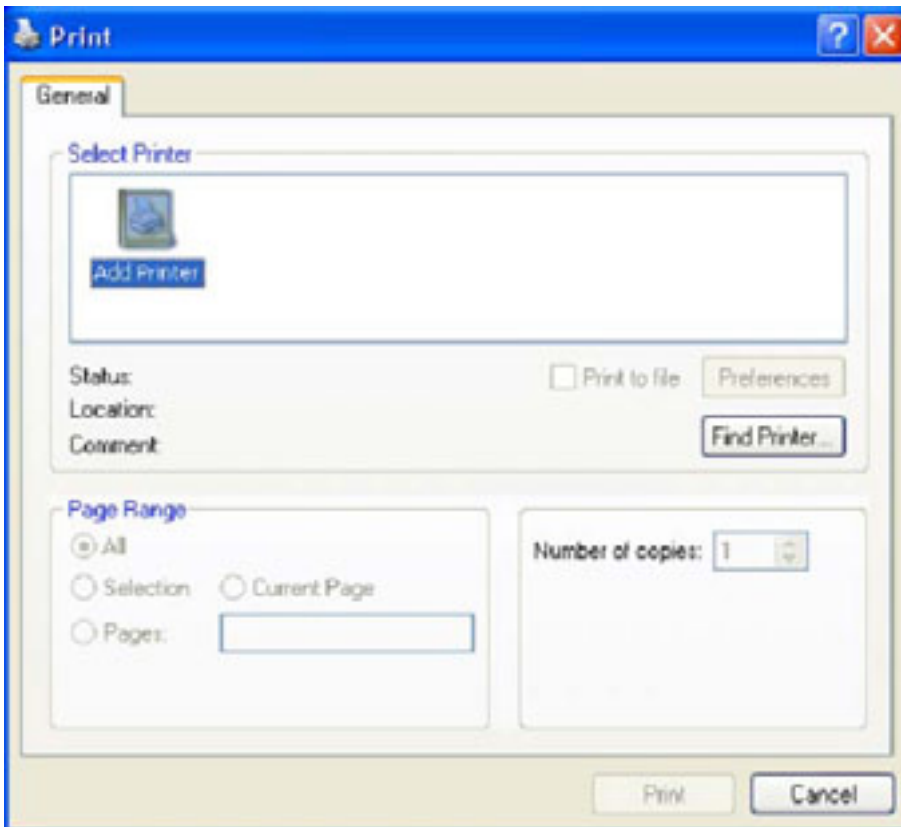
**[Save in BMP Format]****[Watermark Proofer]**



[Save in JPEG Format] → Click “Start” and select “JPEG” as you save images.

[Save in JPEG with Time Period] → Select time period and select channels to be saved in JPEG.

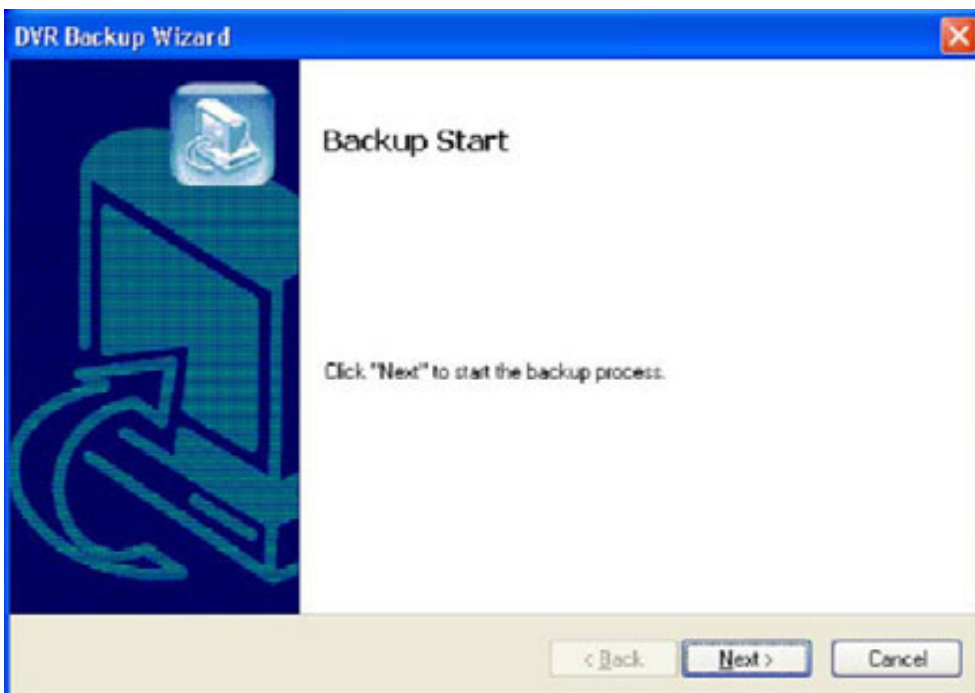
## (6) Print



Click the "Print" button and follow the same printing procedure as you would normally print out documents.

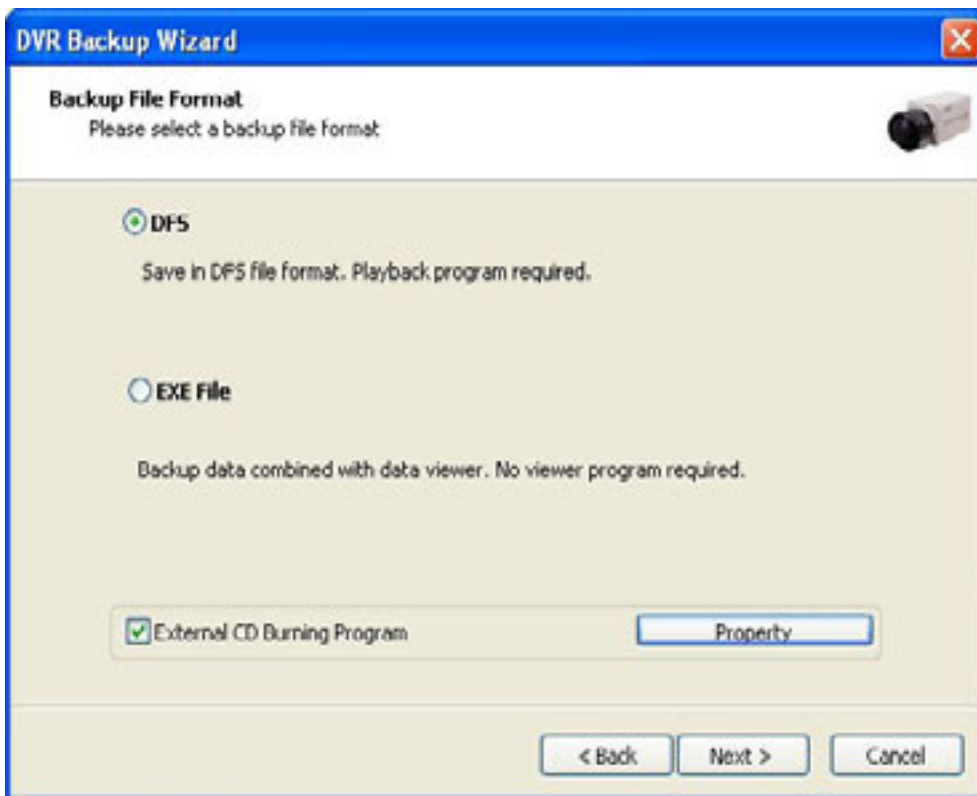
## (7) Backup

The recorded data can be copied from the hard disk to external storage devices, such as CD-R, DVD.



Back up recorded data using various backup devices.

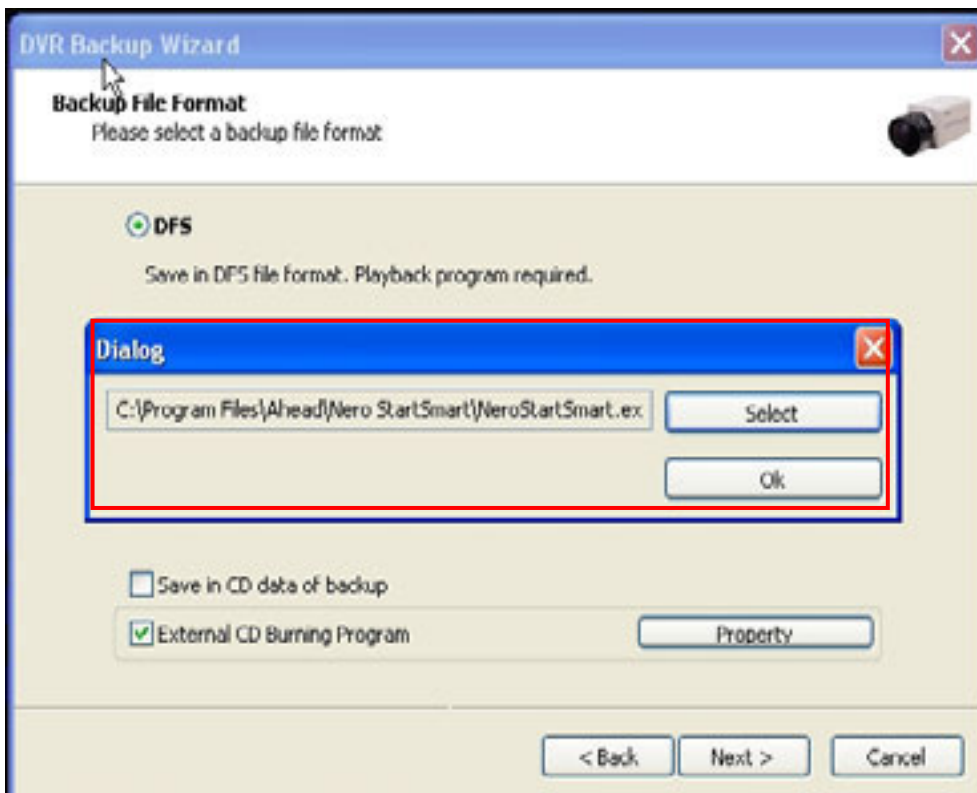
- DFS Backup



**DFS:** Save in DFS file format.

**Dialog:** Show the directory of burning software (ex.Nero Burning)

**External CD Burning Program:** User can run the other CD burning program such as Nero burning. After successfully back up the file, user can burn the data onto CD.



**DVR Backup Wizard**

**Backup Device**  
Please select backup device

Select Time Period

From: 4/25/2004 00:00

To: 4/25/2004 23:59

Password

Retype Password

Backup Folder: F:\

< Back   Next >   Cancel

**Select Time Period** : Specify time period for backup. The minimum period for backup is 1 minute. If password is set, viewing backup data will be possible only when it is typed in.

**Backup Folder**: Click the "Browse" button, select a drive to back up and enter a desired folder name.

**DVR Backup Wizard**

**Camera Channels**  
Select camera channels.

Channels

Channel 1    Channel 2    Channel 3    Channel 4

Channel 5    Channel 6    Channel 7    Channel 8

Channel 9    Channel 10    Channel 11    Channel 12

Channel 13    Channel 14    Channel 15    Channel 16

Channels

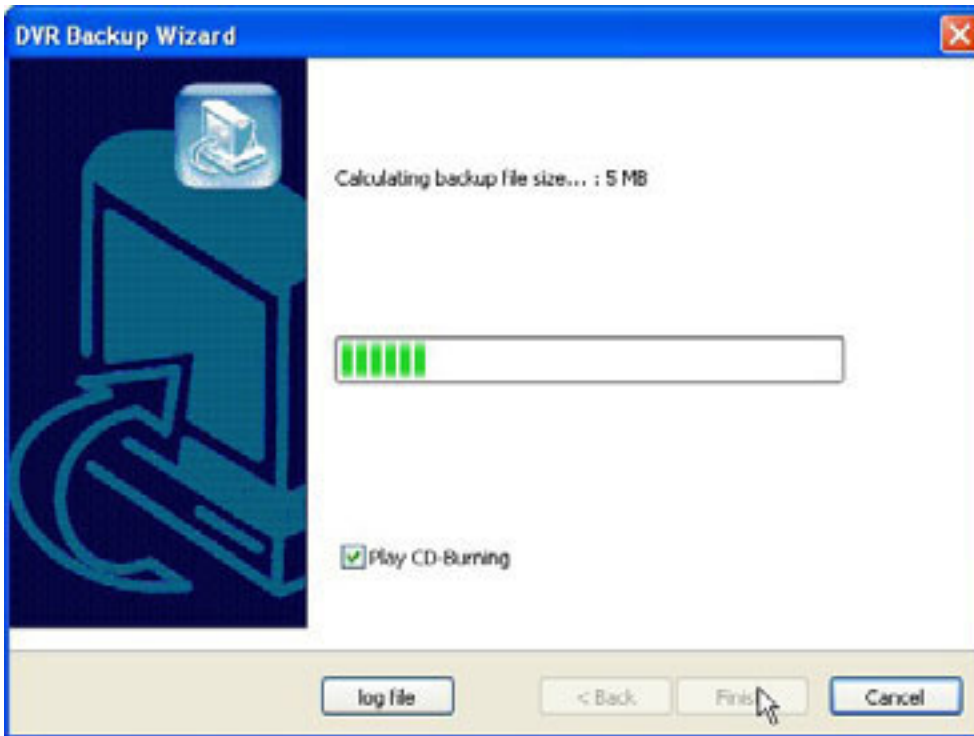
Channel 17    Channel 18    Channel 19    Channel 20

Channel 21    Channel 22    Channel 23    Channel 24

Channel 25    Channel 26    Channel 27    Channel 28

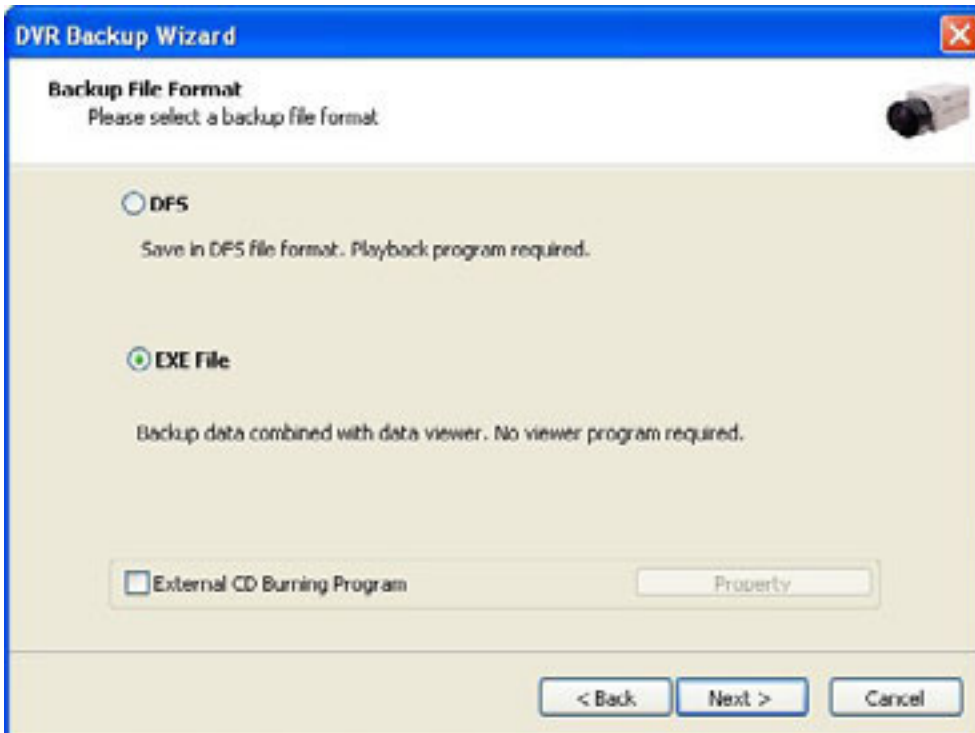
Channel 29    Channel 30    Channel 31    Channel 32

< Back   Next >   Cancel



Play CD-Burning: Check to burn the backup data through an external Burning program.  
Log File: Shows "Backup Start Time", "Directory", "Status-fail or Success".

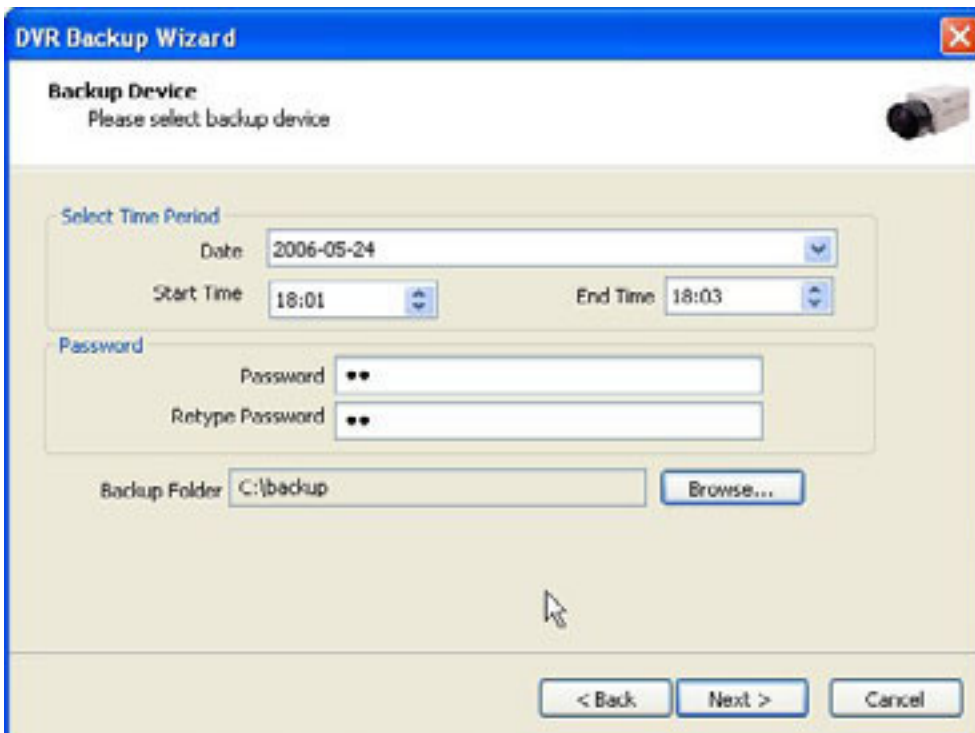
- EXE Backup



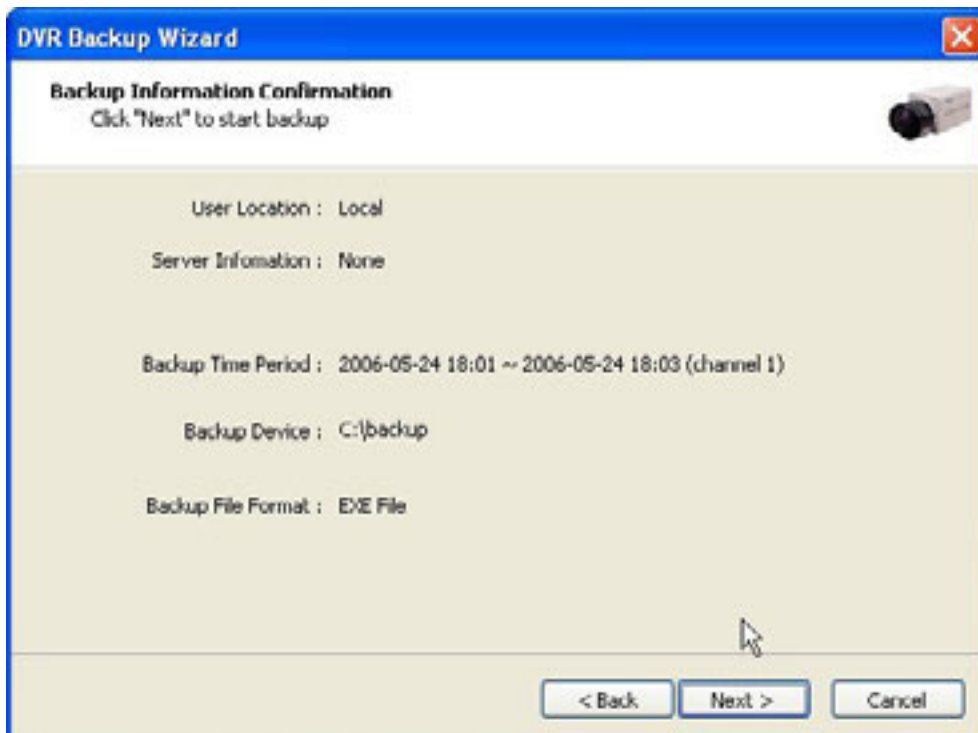
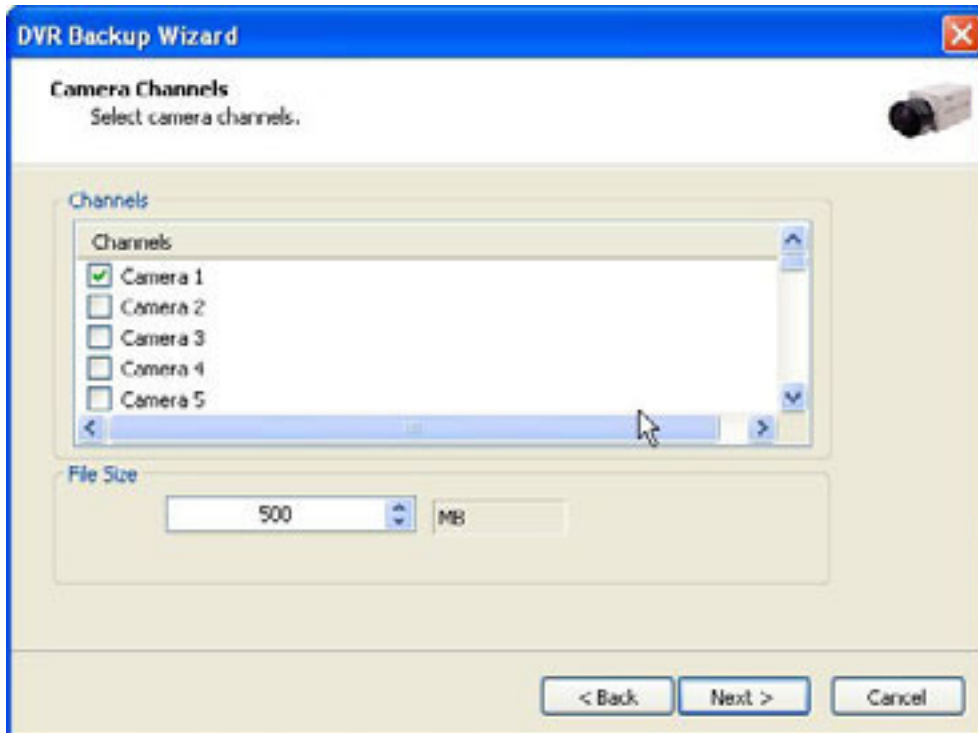
Any recorded data can be saved as “.exe” file. No viewer program is required to see saved data.

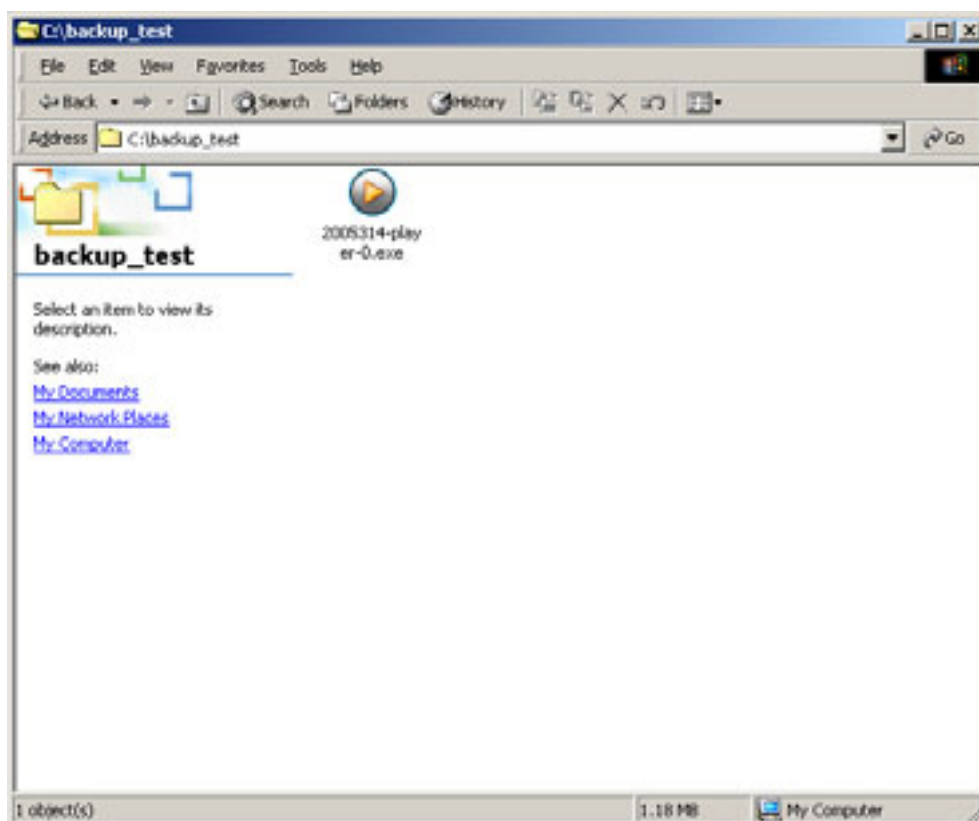
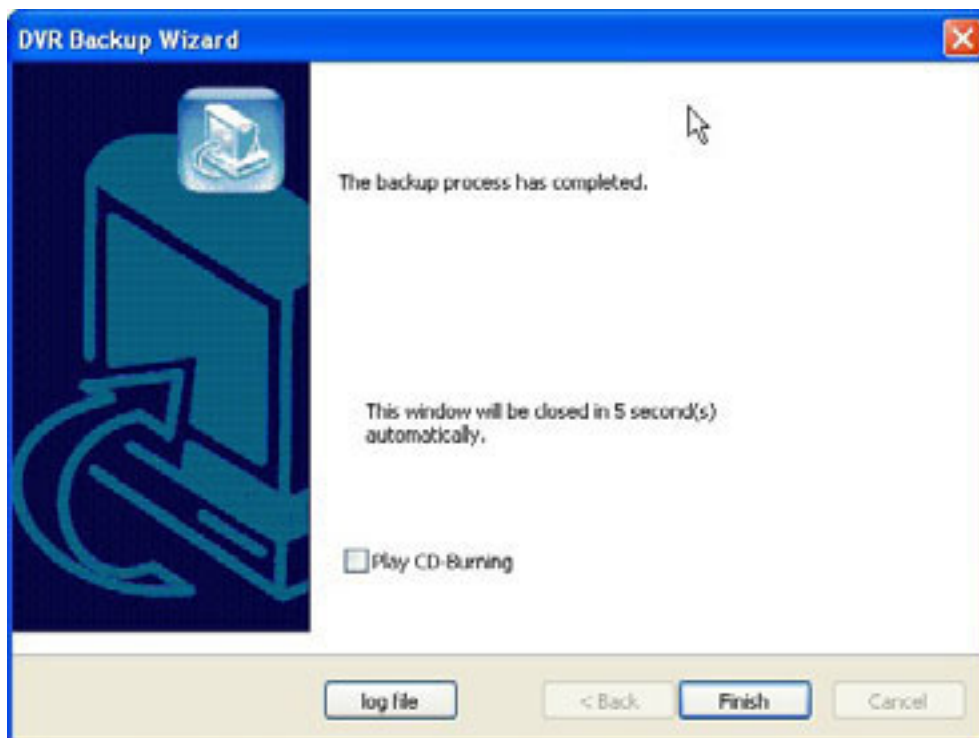
**Note:** 1. file size limited up to 1 GB.

2. 1 channel backup only.



1. Select "EXE File".
2. Specify time period, password, drive, etc.
3. Select ONE channel to back up.
4. Specify file size up to ONE GB. If it is larger than 1GB, multiple exe files will be created.
5. Tick the "Once Make EXE File" box to create only one file with the file size specified.
6. Double-click the exe file created to see data.

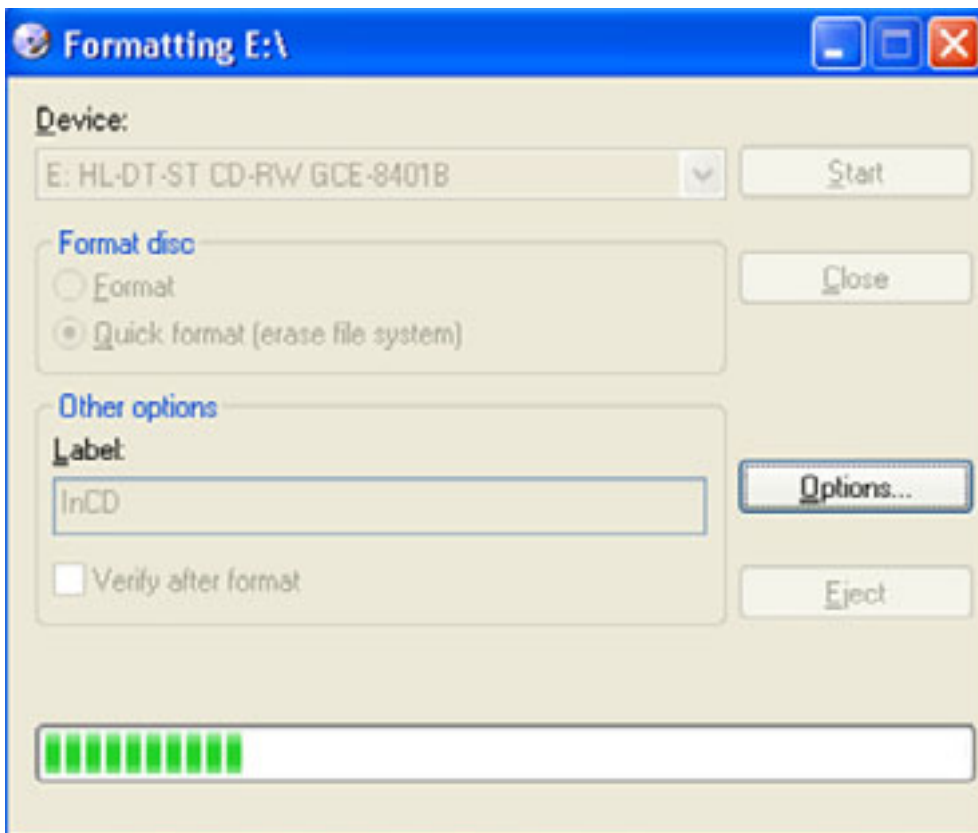
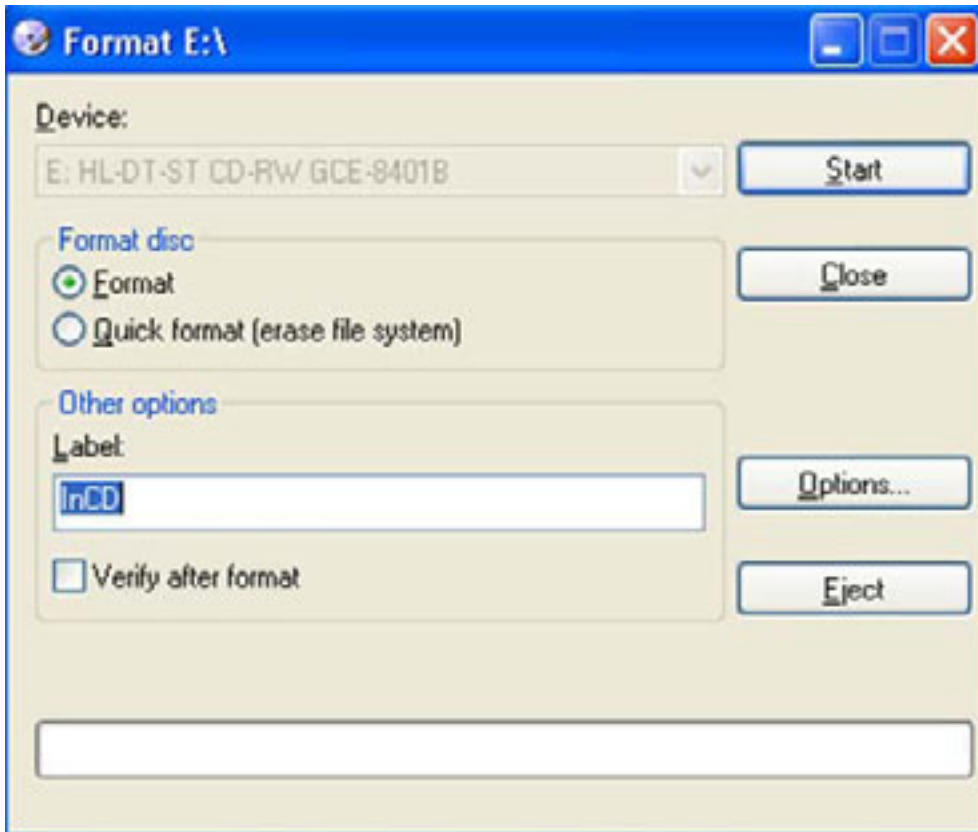


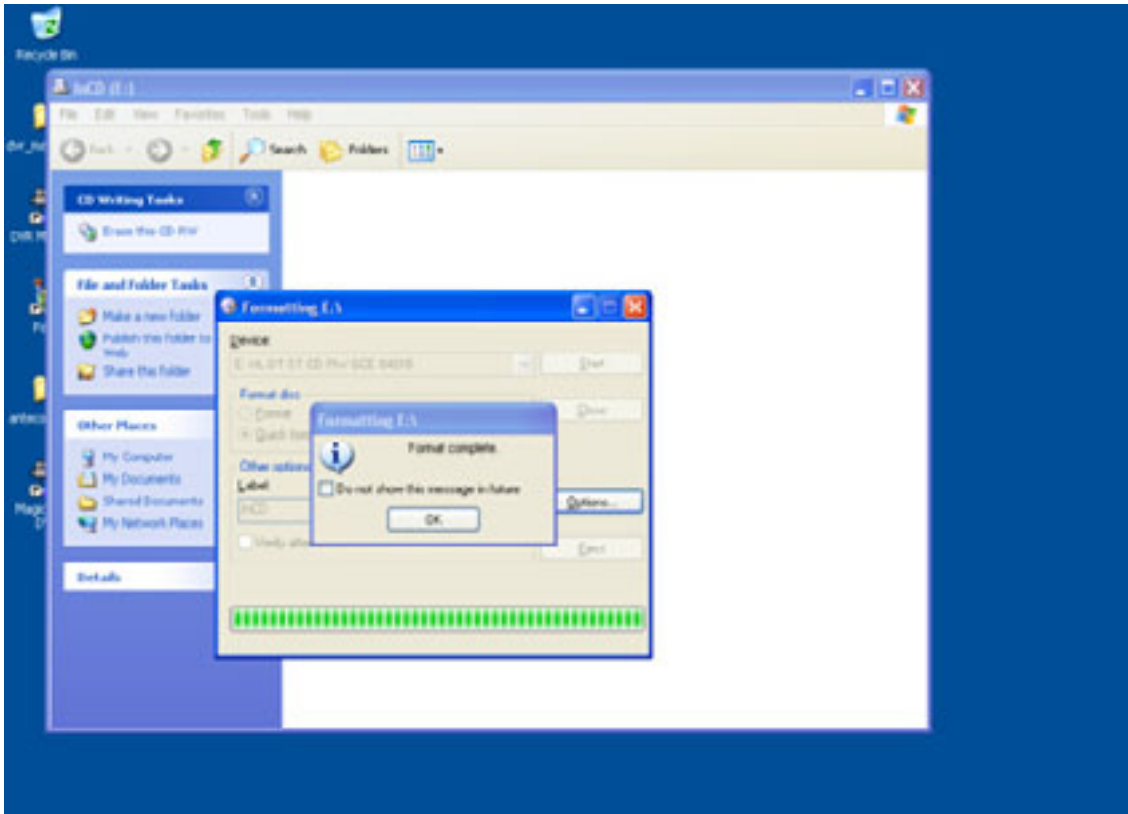


- Run CD Burner (For Non Windows XP Users)

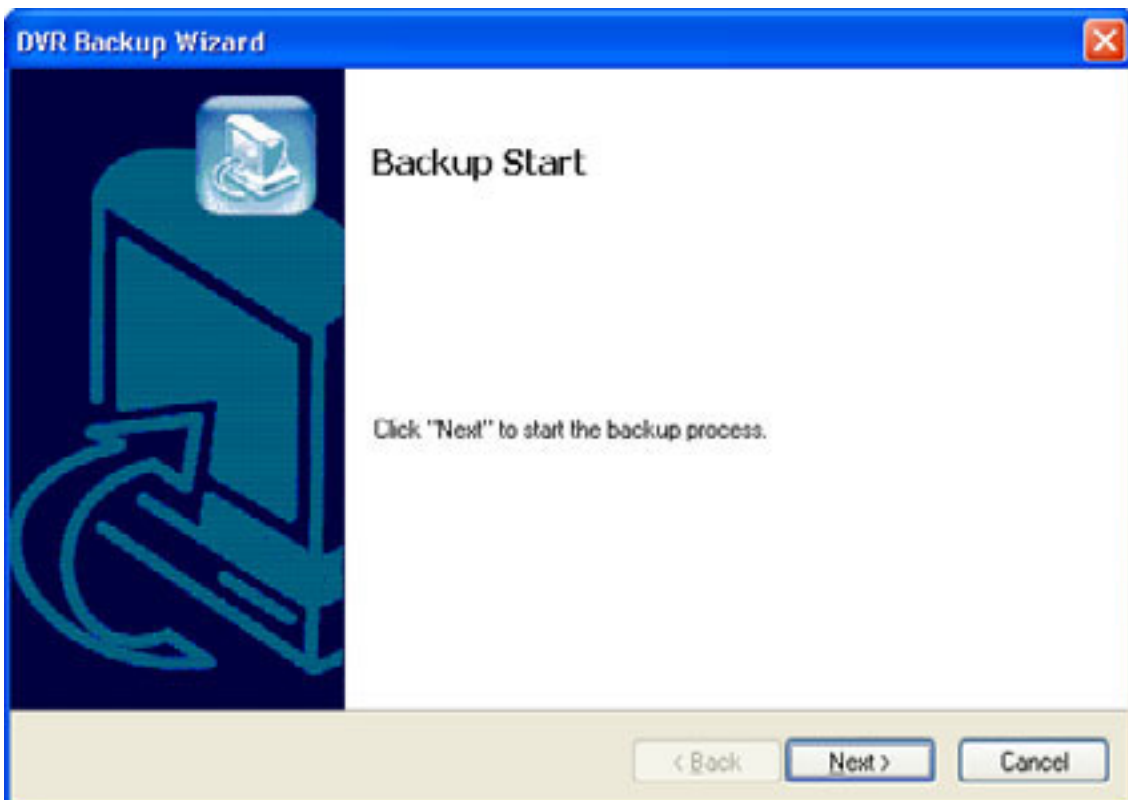


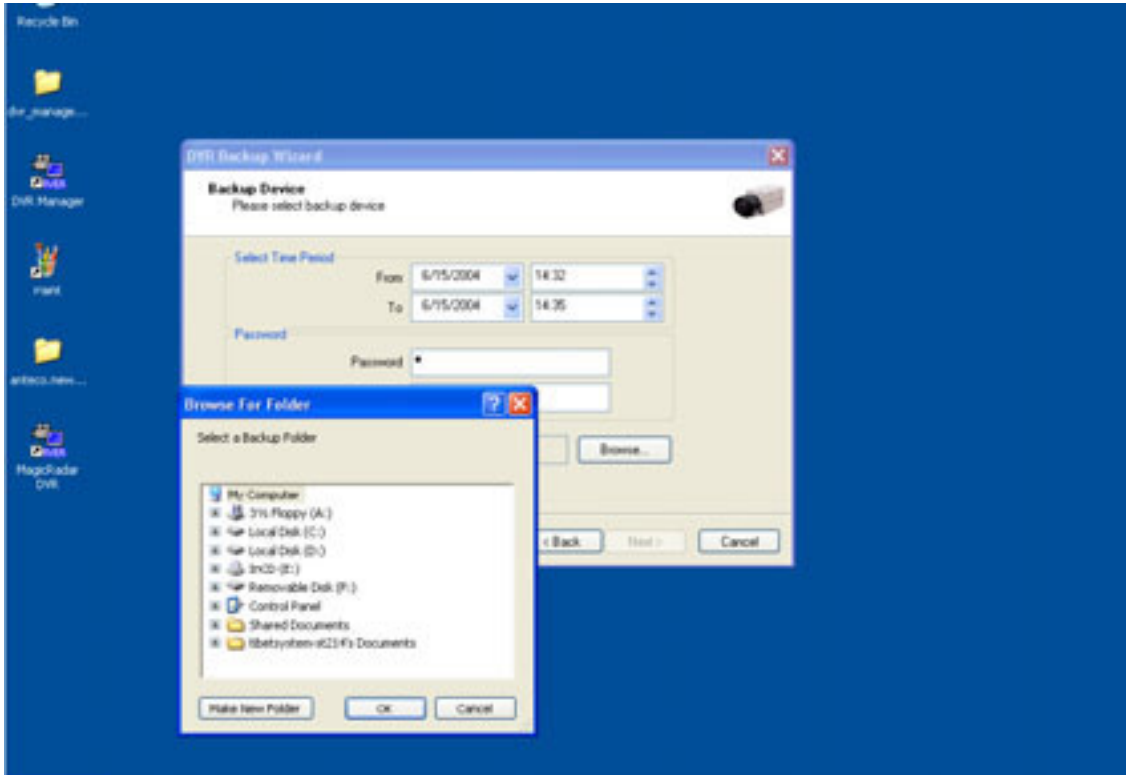
1. Install bundle CD and install INCD.
2. After installing INCD, run "InCDL.exe" which is the INCD Launch Program.
3. Insert a blank RW CD and then start formatting it (If it is a brand-new one, click "Format" instead of "Quick Format").



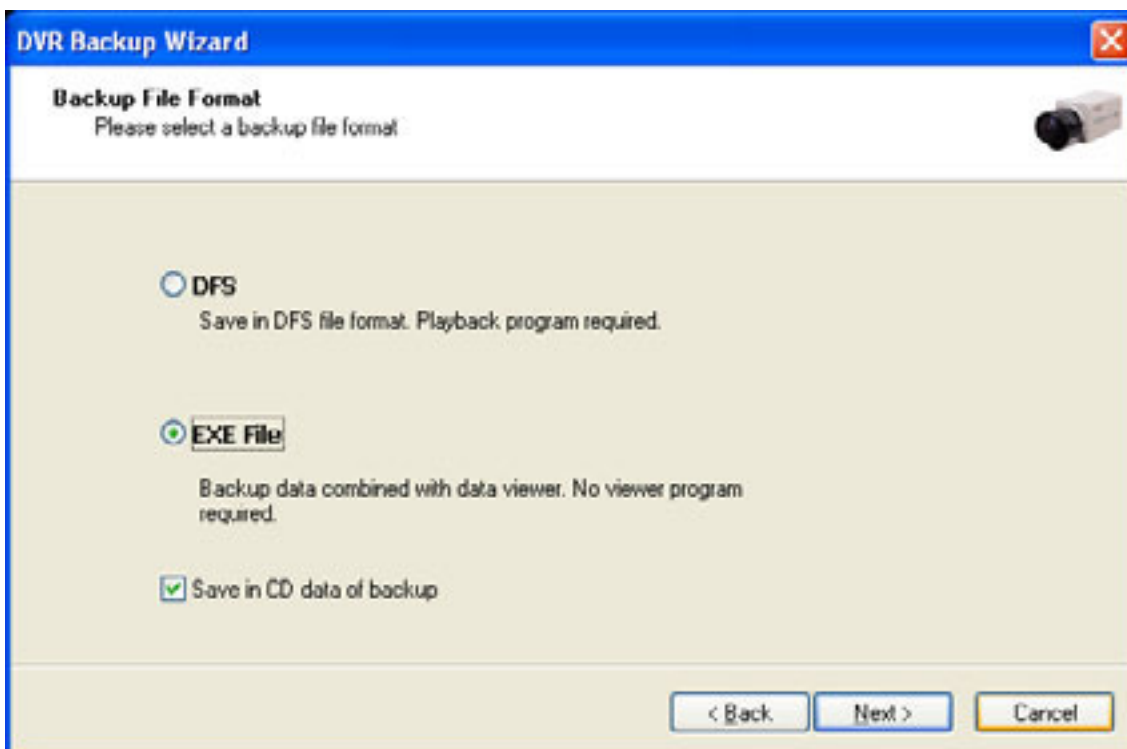
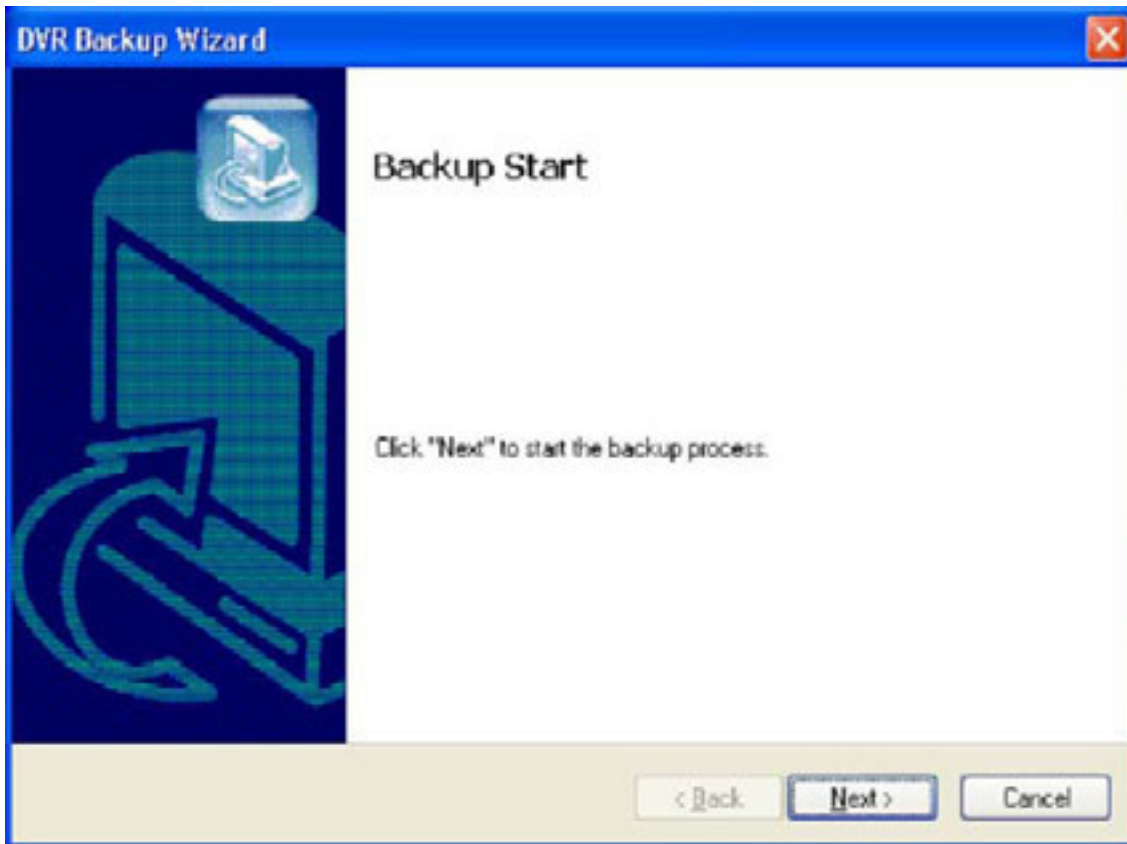


4. Leave the MagicRadar Program and insert the blank RW CD which has been formatted.
5. Select "Backup" and click "Next" to start.
6. Select time period & password and click "Browse" to create a folder.





- Run CD Burner (For Windows XP Users Only)



Windows XP users can back up data directly in a CD without exiting the MagicRadar Program.  
1. Tick the "Save in CD data of backup" box and click "Next".

**DVR Backup Wizard**

**Backup Device**  
Please select backup device

Select Time Period

Date: 2005-03-16

Start Time: 17:04      End Time: 17:15

Password

Password:  Show

Retype Password:  Show

Select CD-RW:  Browse...

Use Folder:

< Back    Next >    Cancel

2. Select Time Period : Specify time period and password.
3. Select CD-RW drive.
4. Create folder name if it should be used and click "Next".
5. CD information will be shown as below.

**CD BURNING**

Select CD Device

TSSST corp CD-R/RW TS-H292A TS02

Close

Eject

CD Information

Default Recorder drive letter = F:\

Recorder #1

PnP ID : TSSST corp CD-R/RW TS-H292A TS02

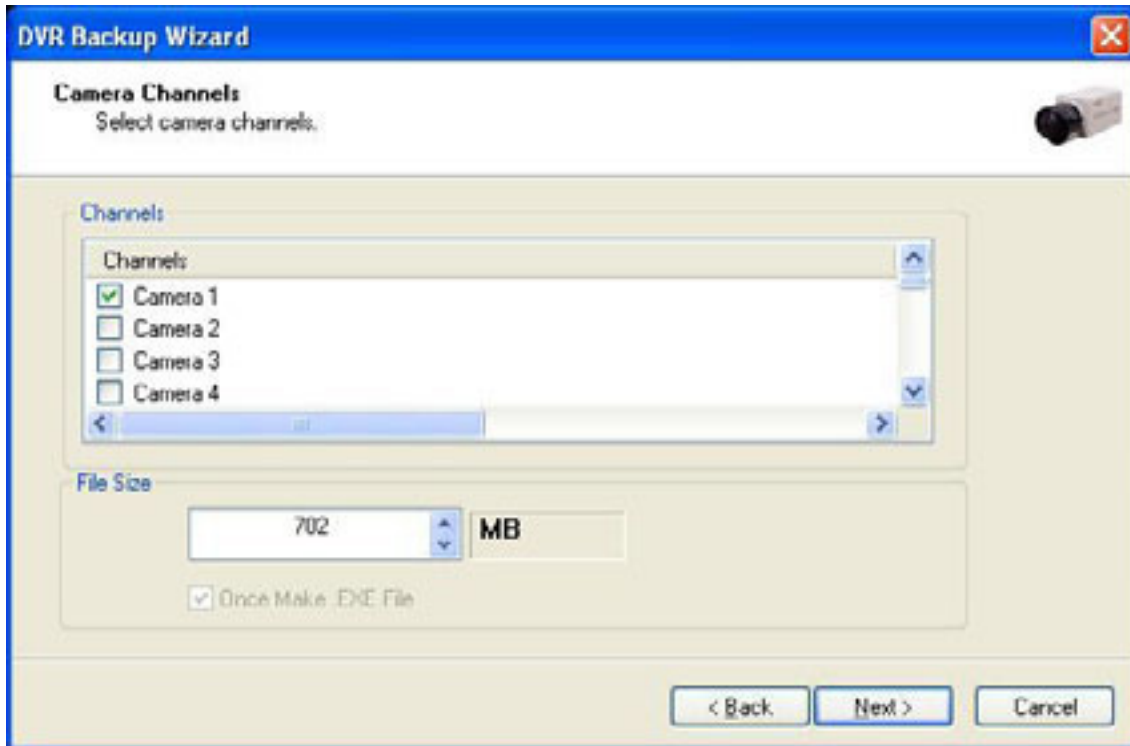
Path : \Device\CdRom0

Vender : TSSST corp

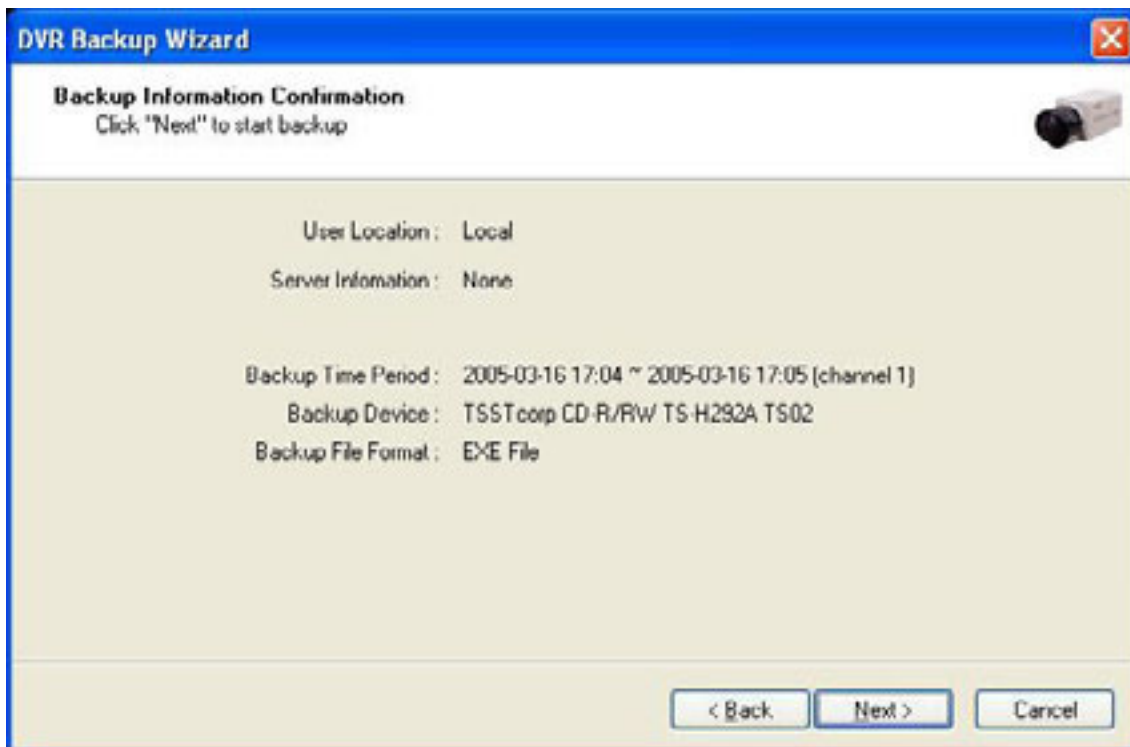
Product : CD-R/RW TS-H292A

Revision : TS02

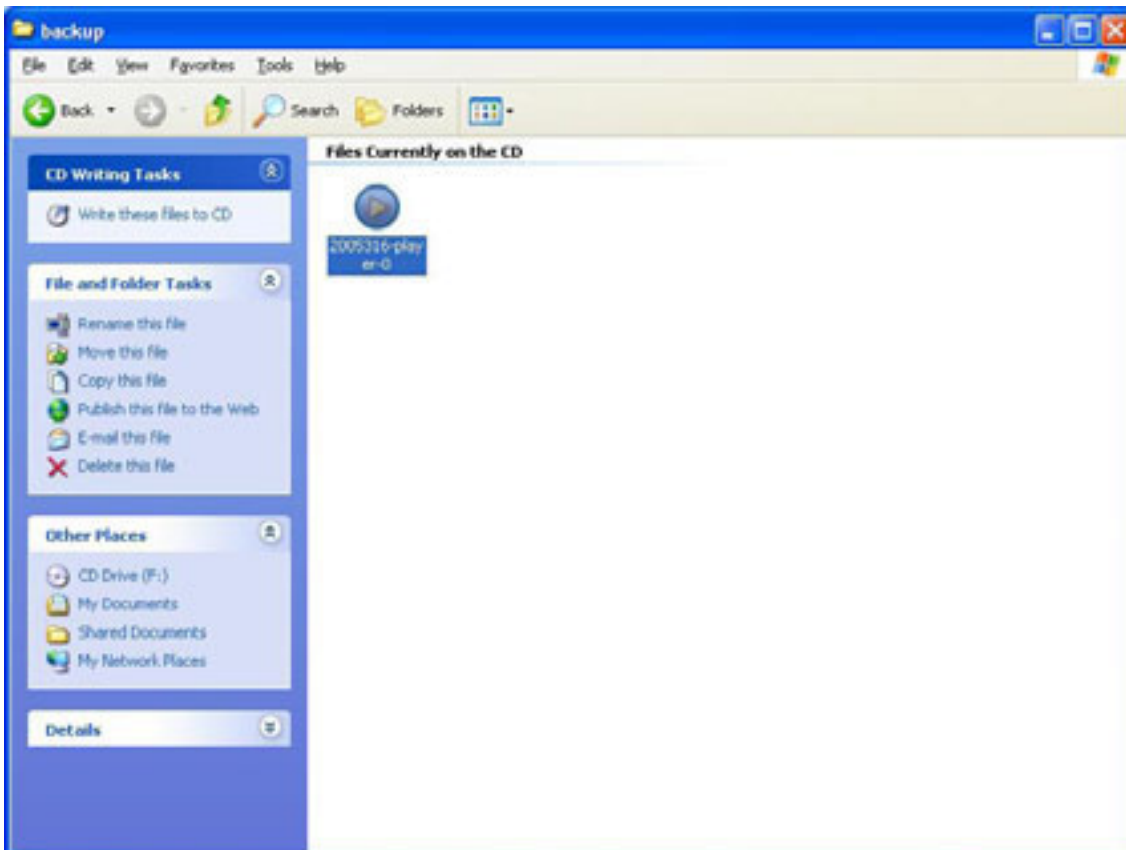
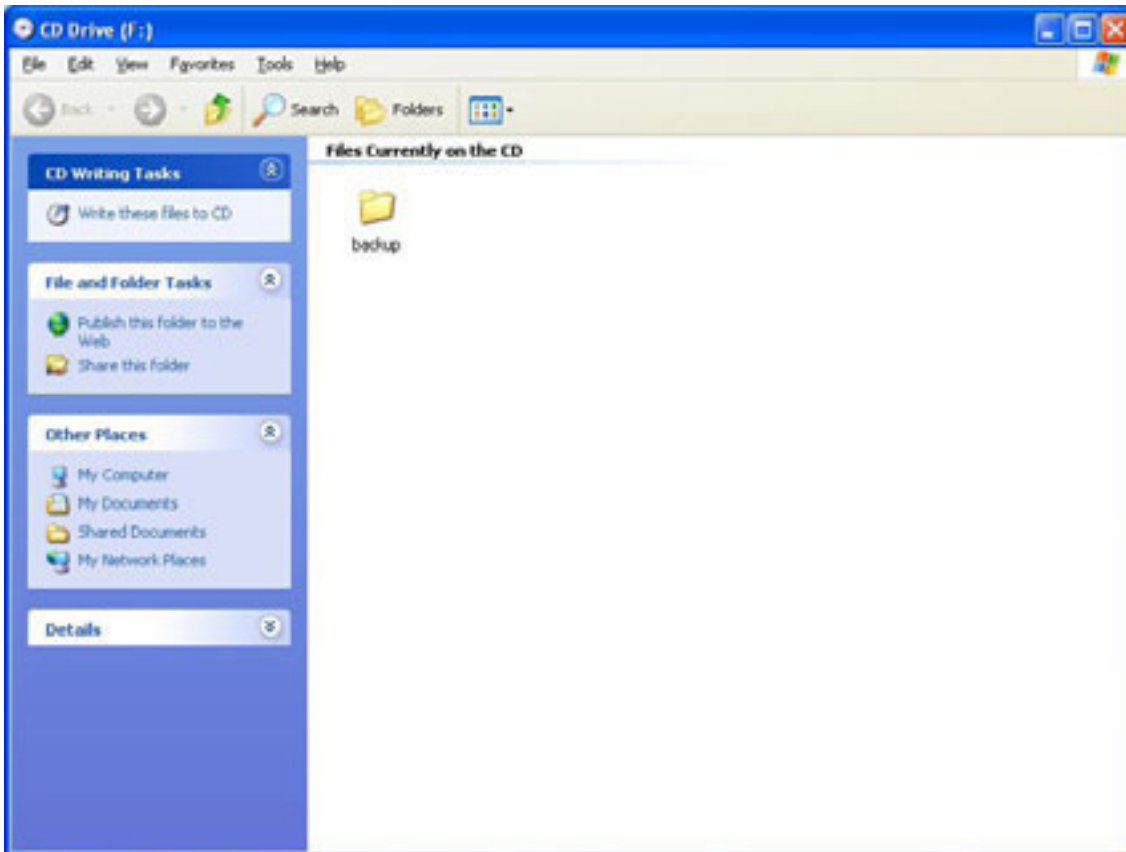
DiskFreeSpace : 702 MB



6. Select 1 channel to backup.
7. Identify the maximum file size indicated. An attempt to back up more than the size indicated will result in a failure.

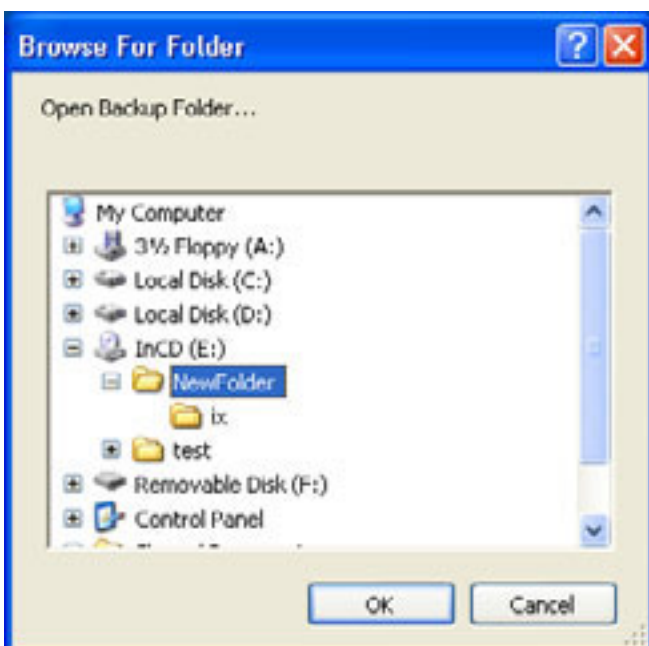
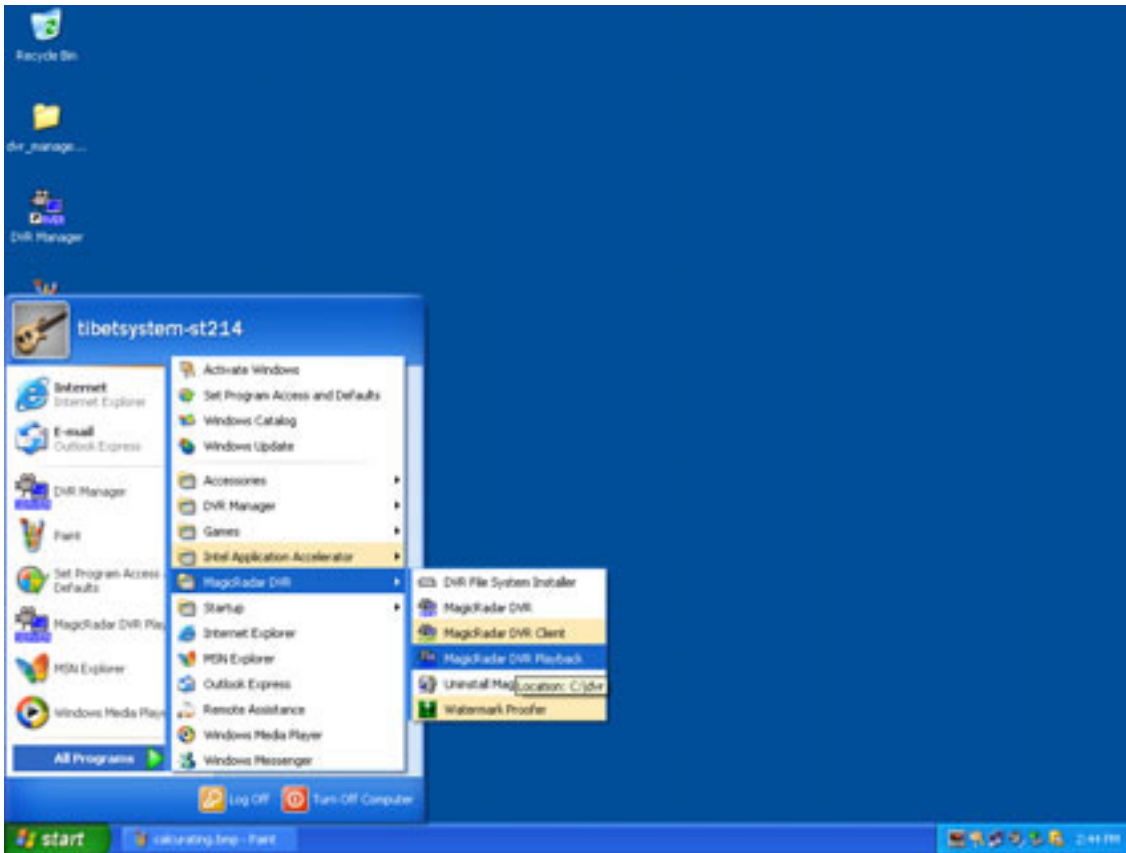


8. After completing backup, find the files created in the CD.



**[Playback]**

1. Click the “Start” button and run the “DVR’s Playback Program”.
2. Select a folder (subfolder) to see saved data.



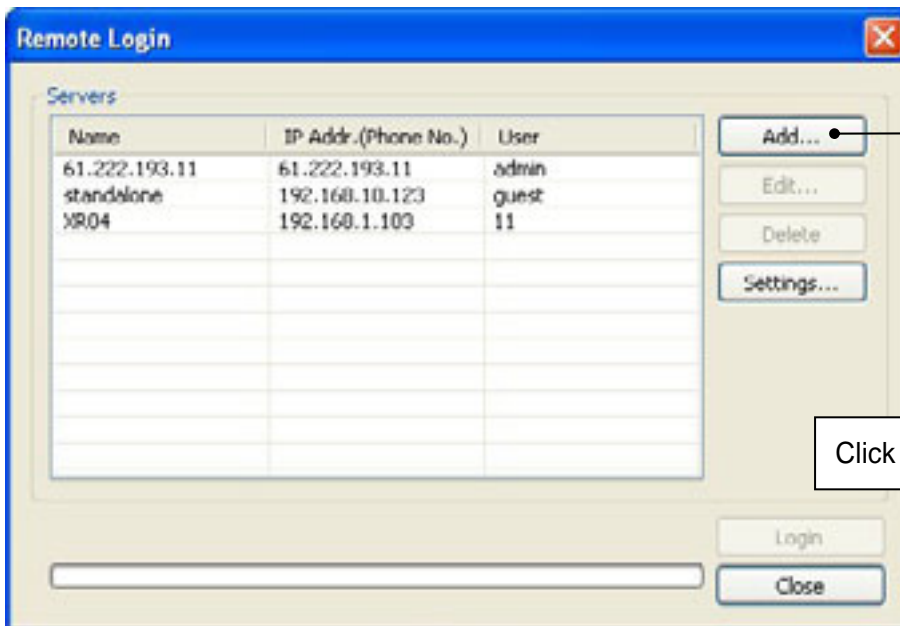
# CHAPTER 6

## Remote Monitoring System

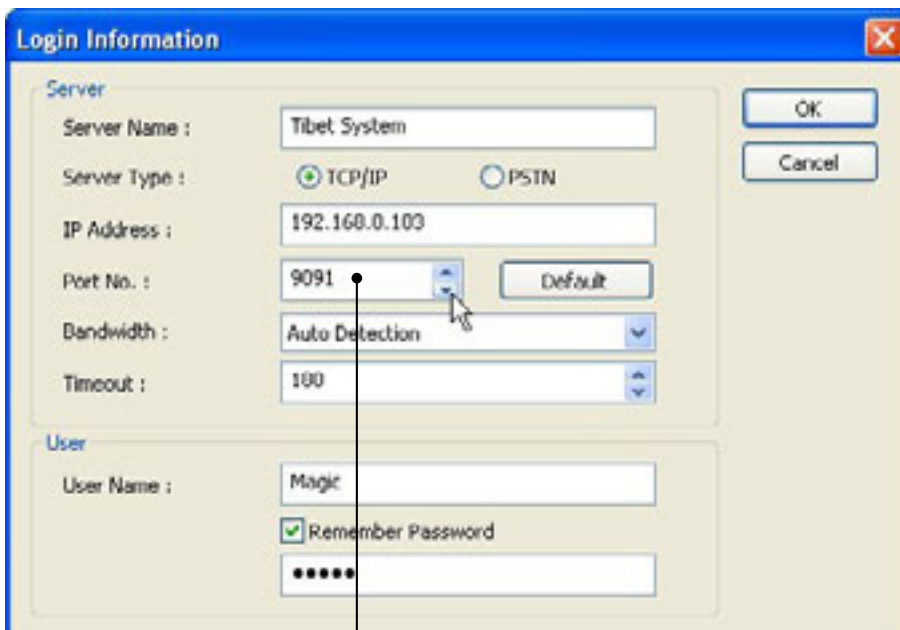
### 1. Program Execution



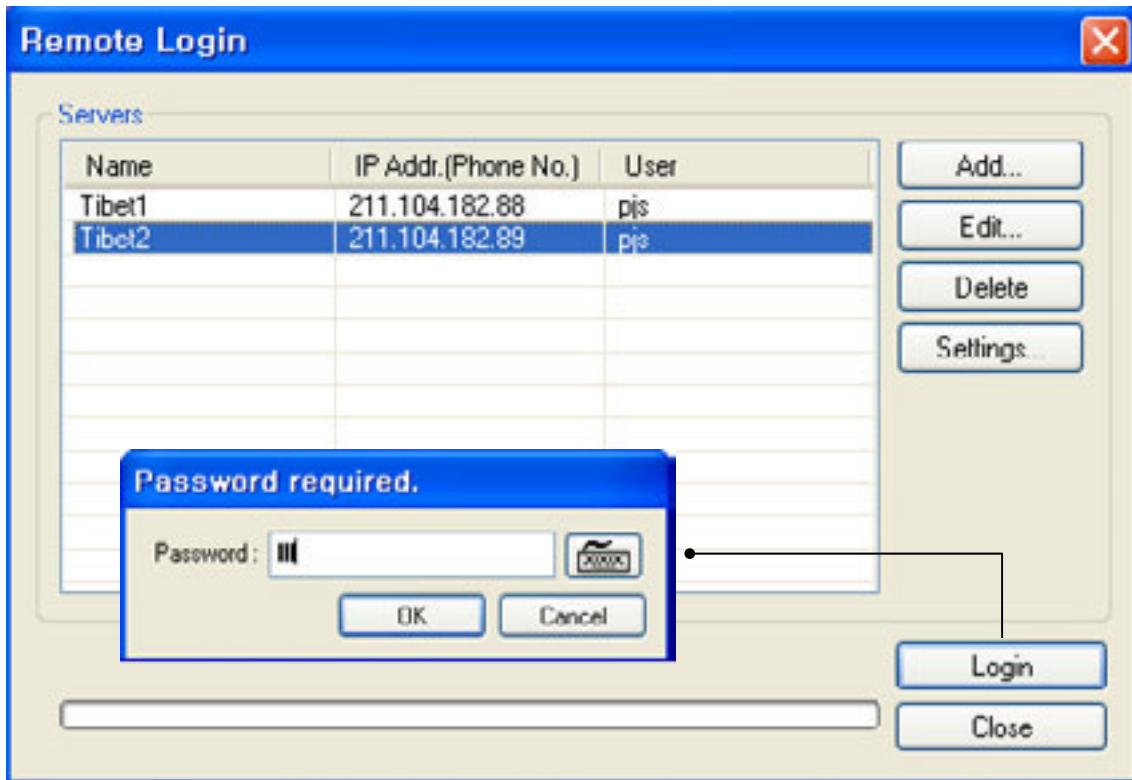
Double-click on the “MagicRadar DVR Client” icon on the desktop to execute Remote Monitoring System (Client).



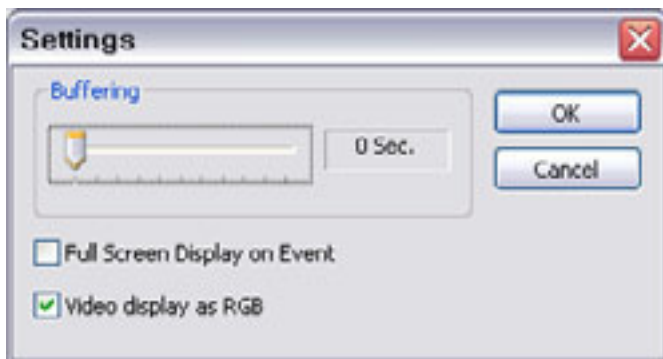
Click “Add” to register DVR servers.



Note: Make sure to put the same Port No. as DVR server.



There can be more than one DVR server registered.  
 Select one from "Servers", click on "Login" and type in password to log in.  
**Edit:** Login info. changes can be made here.  
**Delete:** Registered servers can be deleted with one click.



**Full Screen Display on Event:** If checked, full screen will be displayed on events.  
**Video display as RGB:** if checked, video display will be shown as RGB type.  
 This function improves client display compatibility.

## 2. Remote Save and Backup



The instant AVI file save of real time video can be done remotely.

1. Click the right mouse to start saving.
2. Click the right mouse to stop saving.

Remote Backup can also be done.

The same procedure is used as "DFS Backup".

### 3. Real Time Audio



Click the right mouse and select “Enable Audio” to hear real time audio.

**Note:** Changing “Setup” remotely can be done if remote user is “Admin” or “Admin Mode”.

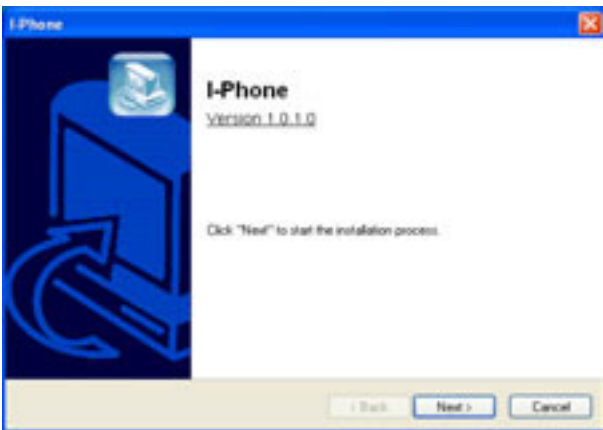
# Appendix I-phone

## 1. Installation

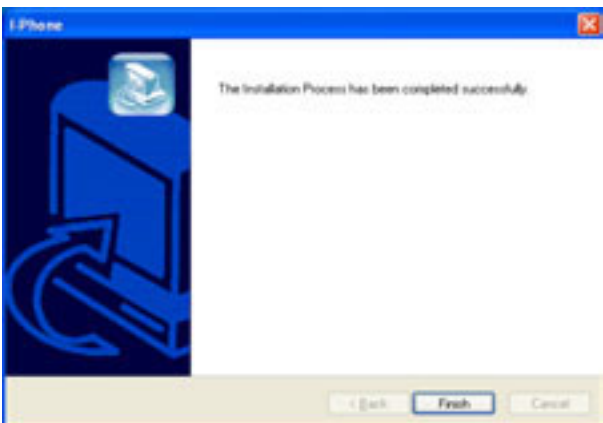
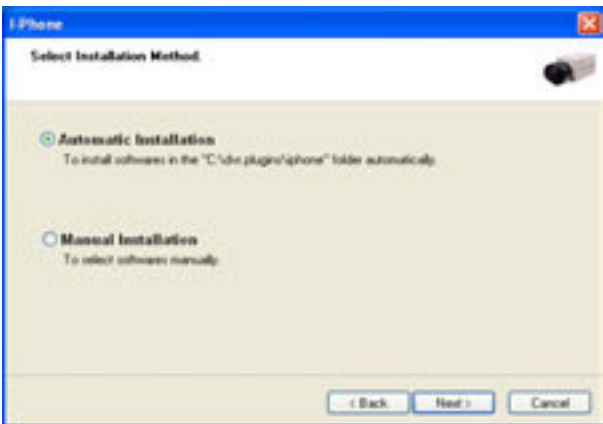
Any system used for “Two-way Communication” must have static IP and “iphone(1.0.1.0).exe” must be installed.



For I-phone installation, double-click on “iphone(1.0.1.0).exe”.

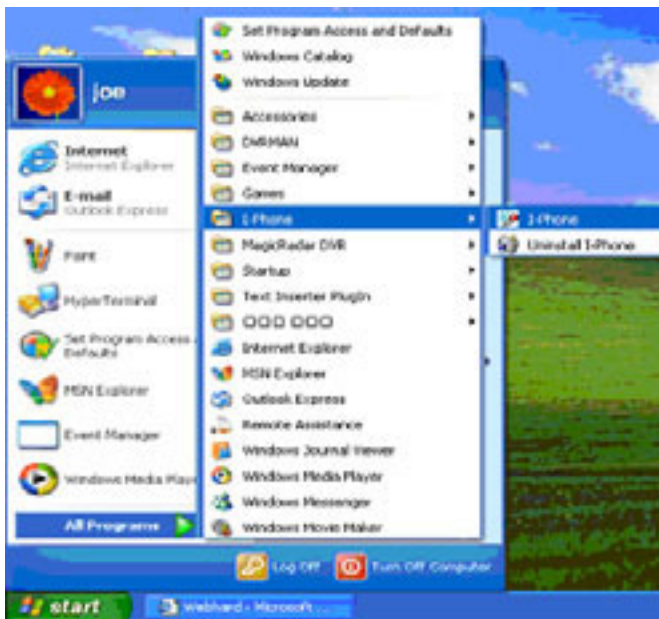


Click “Next” to start installation process and select “Automatic Installation”.

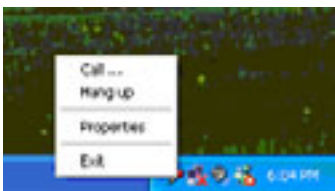


Click “Finish” to complete the process.

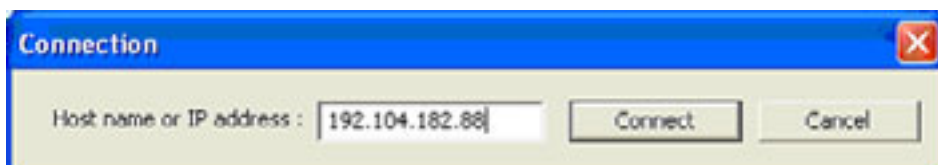
## 2. Execution



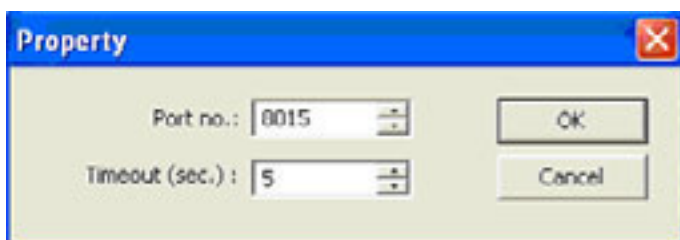
Go to “Start”, “All Programs”, find “I-phone” and select it for execution.



Find the I-phone icon at the right bottom and click it for the next step.

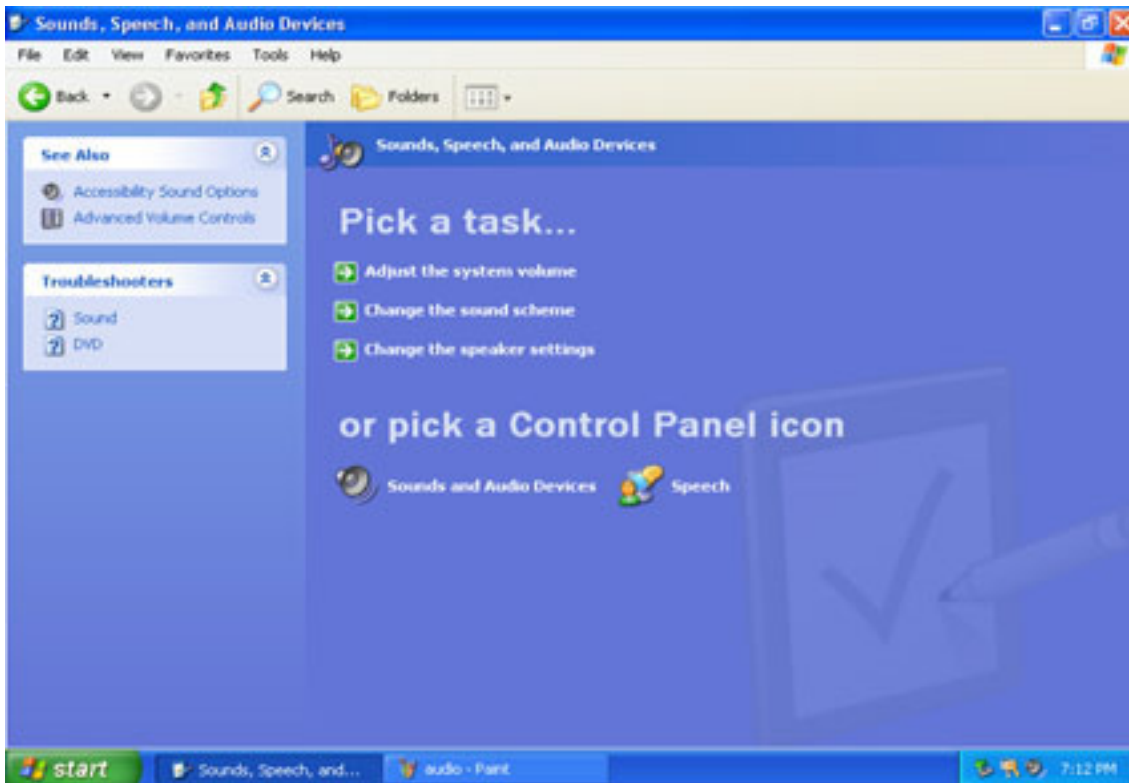
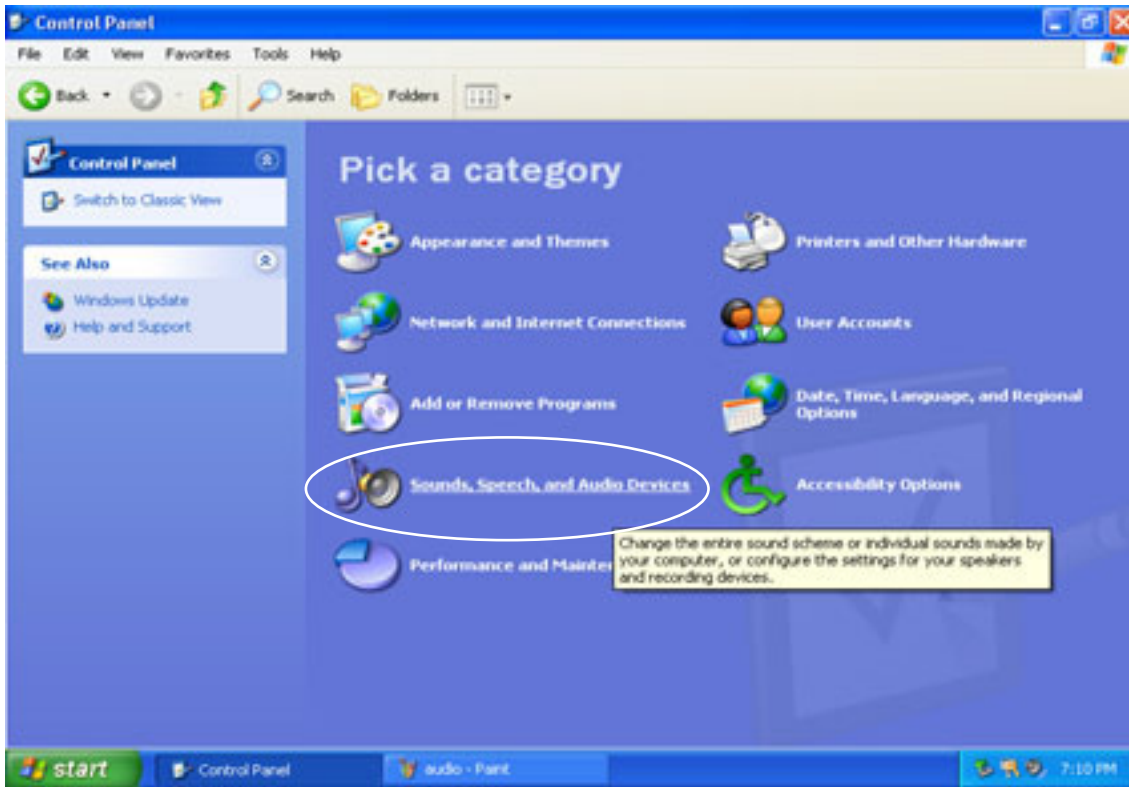


Select “Call” for Two-Way Communication”, type in IP address and click “Connect”.



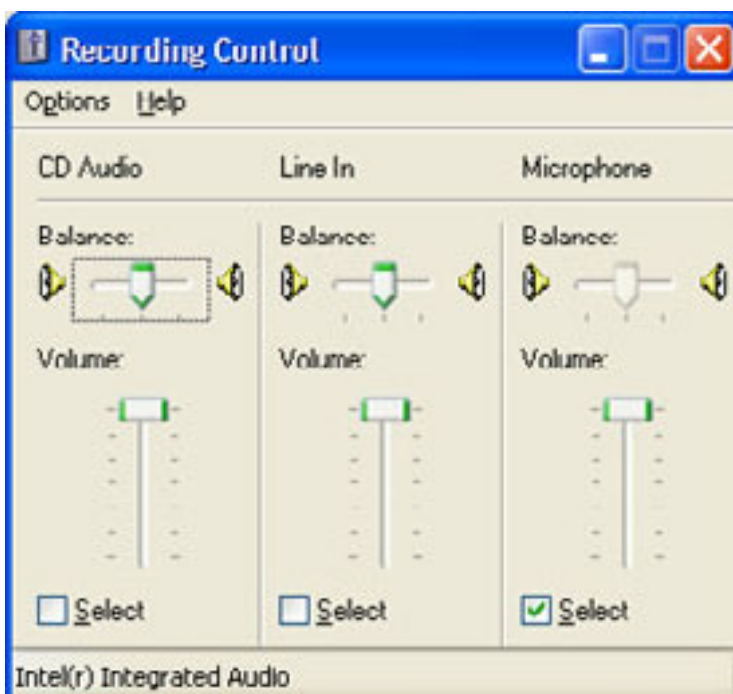
**Property:** The default port number is 8015 and the default timeout value is 5 seconds. Leave them as they are unless other values must be used.

### 3. Audio Setup





Go to “Control Panel”, “Sounds, Speech and Audio Devices” and “Sounds and Audio Devices”. Then go to “Audio”, “Sound playback and click “Volume”.



Recording Control should be set up this way.

[www.MagicRadar.com](http://www.MagicRadar.com)

Creative Leader in  
Digital Video Surveillance  
**MagicRadar**