iNetDVR

V4.3

Operation Manual

Introduction

System Feature

iNetDVR provides advanced digital technology that supercedes old-fashioned CCTV monitoring and VCR systems. It allows 'instant replay' and simultaneous recording.

iNetDVR also provides security personnel to define 'security events' that require recording compression of non-event periods into a few frames of video for continuity. This eliminates long hours of tape review and allows you to quickly find any date, time or alarm by random access.

System Requirements

This chart reflects the **minimum system requirements** to operate *iNetDVR* .

	0430, 1630	2 Cards and above model
OS	Windows98SE, Windows ME, Windows2000, Windows XP or above	
CPU	Pentium II or Higher	Pentium III or Higher
Memory	64MB or above	128MB or above
Video Adapter	8MB Video RAM on VGA	ATI Series Expert 2000 or above
Main board	IBM PC Compatible	Intel845, SiS645 Series or above
HDD	More than 2GB	More than 2GB
DirectX	Version 8.0 or above	Version 8.0 or above

※ In case of using above two card, Program might do not work according to the specification of Main board or VGA adapter.

iNetDVR Board Specification

Model	Camera Channel	Display speed(NTSC/PAL)	Digital input	Digital Output	Audio Recording	
0430	4	30/25 fps	4	4	1	
4120	4	120/100 fps	4	4	4	
1630	16	30/25 fps	16	16	1	
1660	16	60/50 fps	16	16	2	
16120	16	120/100 fps	16	16	4	
16240	16	240/200 fps	16	16	16	
16480	16	480/400 fps	16	16	16	
1630A	16	30/25 fps	16	16	1	Overlay card
1660A	16	60/50 fps	16	16	2	Overlay card
16120A	16	120/100 fps	16	16	4	Overlay card
16120R	16	120/100 fps	16	16	16	
16240R	16	240/200 fps	16	16	16	
M404	4	120/100 fps	4	4	4	MPEG4

※0430,4120,M404 can be expended to 16Channel if the user installs 4 pcs of the same board.

※ “A” of each model name means “Capture Board” with “Overlay Board”.

Installing iNetDVR Board

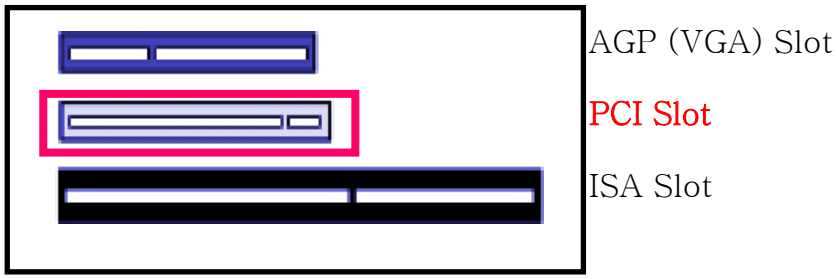
1) Turn off power on the computer.

* It is very important to turn the computer's power before you open the case. Static Electricity can provide a big enough shock to damage the components of your PC.

NEET TO EXPLAIN ABOUT PROPER GROUNDING BEFORE TOUCHING ANY COMPONENTS.

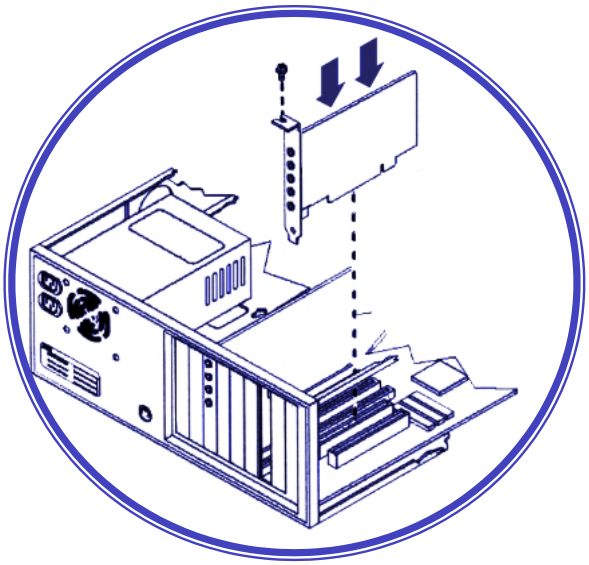
2) Open computer case and Please install as follows:

3) Check to make sure there is a PCI slot available.



< PCI slot >

4) Please install securely in the slot.

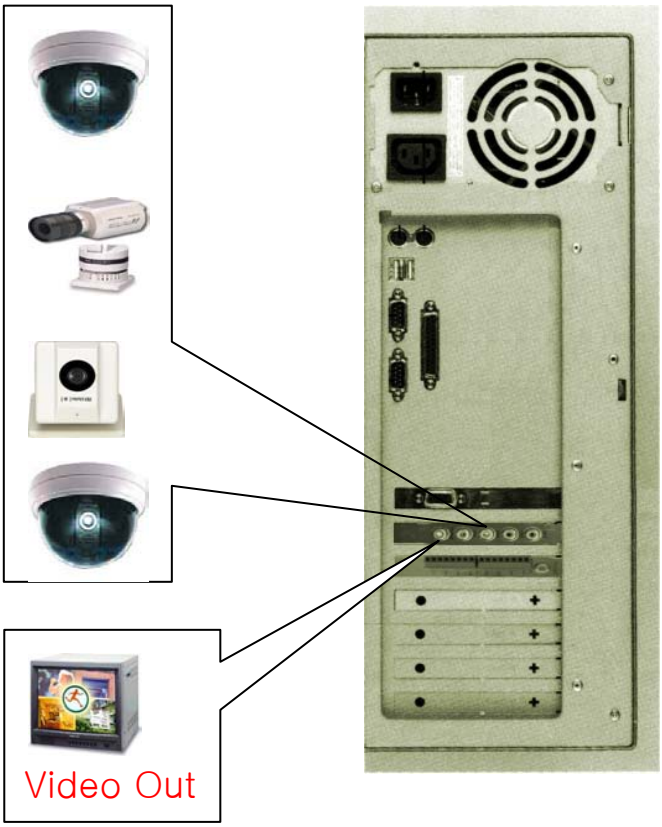


< PCI slot Installation >

5) Secure the card in place by tightening the screw.

6) Close the case then turn on the computer

Install System



A User may connect CCTV camera, video phone, or video out port of any security system to one of camera input ports on GVC capture card.
Also, a user may use TV out to connect an external analog CCTV monitor.

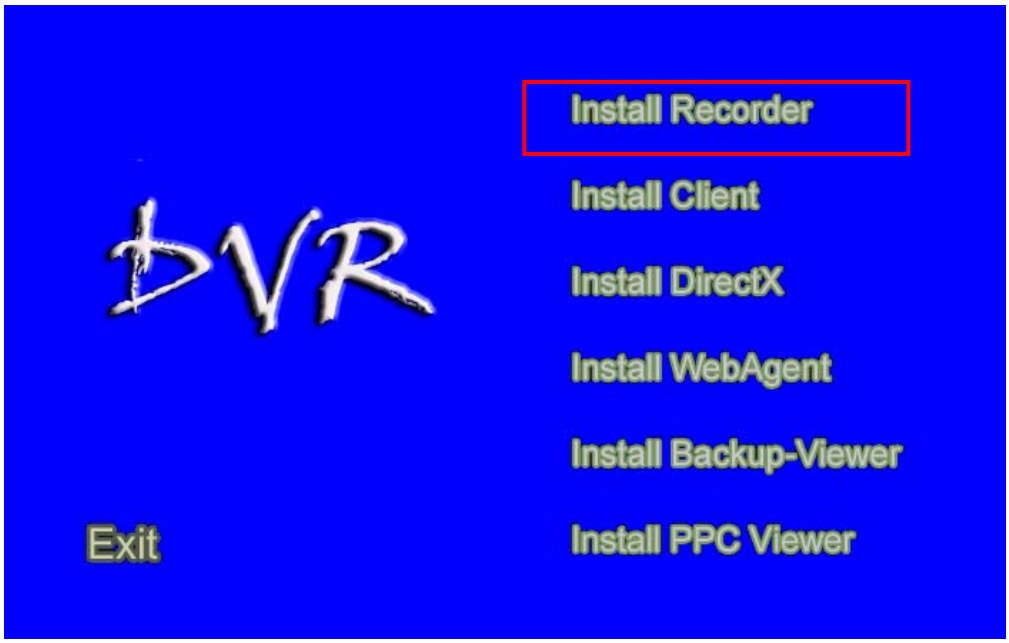
Install Software

1) After installed *iNetDVR* Board, and turn on your computer, automatically display as below “Found New Hardware Wizard” program. At that time, click all of “Cancel” button, and finished Wizard program. (According to a type of board and quantity of board, can be repeated.)



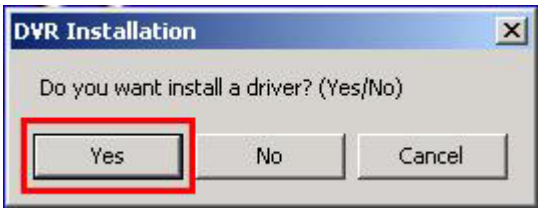
2) Insert ‘the installation CD' in your CD-ROM drive.

3) Then, the installation program will run automatically. (If not, run 'Autorun.exe' file)



4) Select "Install Recorder".

5) Before installation takes place, a dialog box will ask whether it should install with driver. If you selected “Yes”, it will install the iNetDVR program with driver (The Driver is needed to run this program. If this is your first installation of iNetDVR on your Computer, you must select “Yes”)

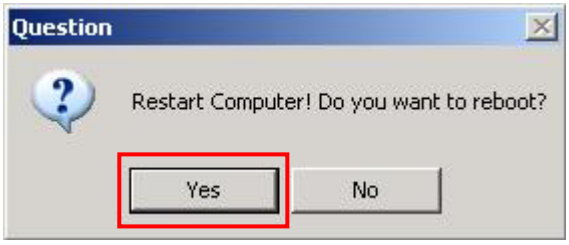


6) And then device driver application will be installed automatically.
※in windows 98 version, device driver application would display differently.



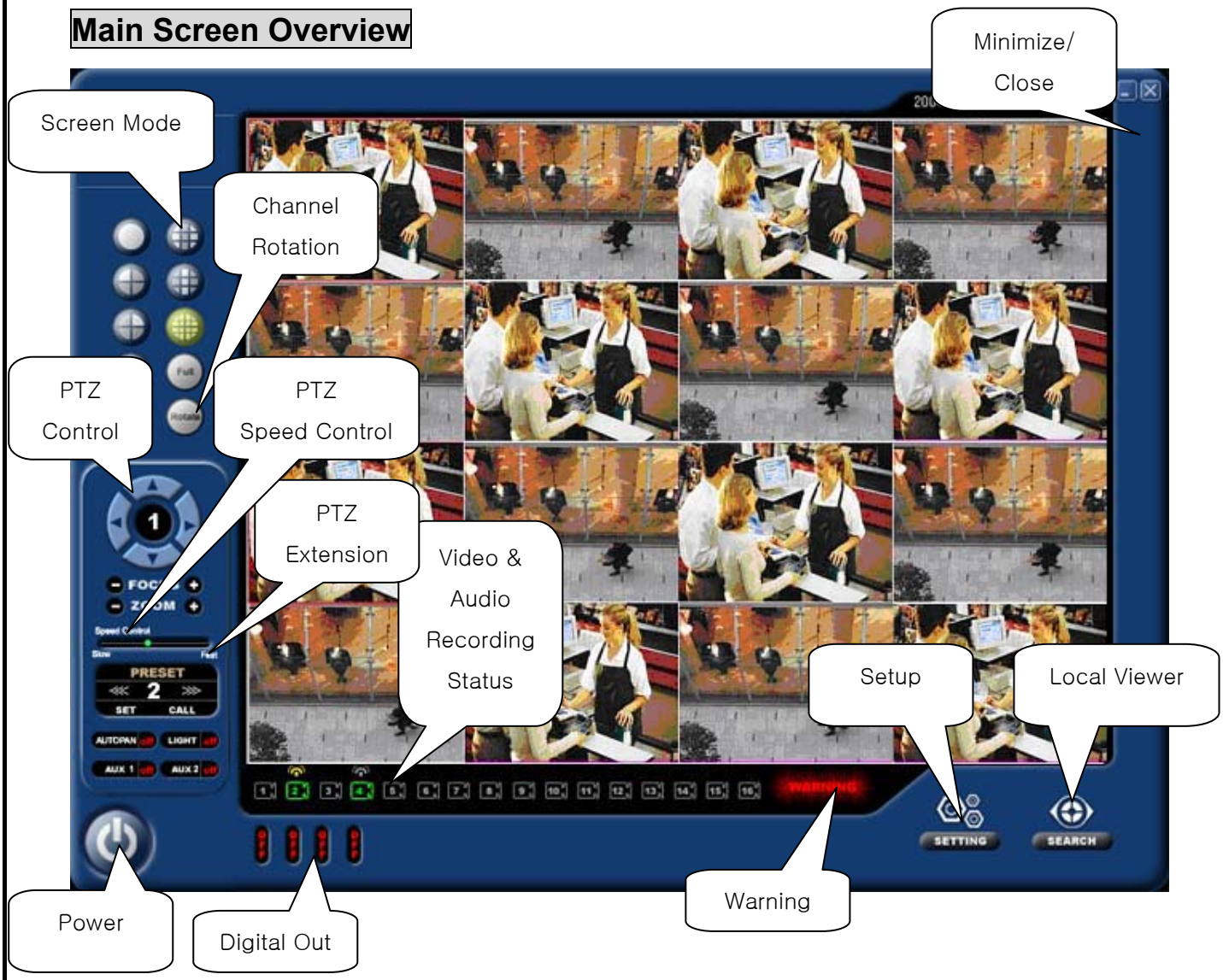
7) According to indicating the install program, click “Next” program.

8) Reboot computer, if you had done installation successfully. The iNetDVR program icon will appear on window of your desktop.
In Windows 2000 and Windows XP case, this message wouldn’t appear and reboot.



※ warning!
iNetDVR uses a specific data format. So, you must designate the specific data file by using the setup program’s 'Storage Space' section after installation. iNetDVR will not record data without specific iNetDVR storage space.

Main Screen Overview



Local Viewer	Run Local Viewer[Search]
Setup	Run Setup
Minimize/Close	Hide Button DVR Recorder in tray bar/Close Button[Exit]
Video& Audio Recording Status	Status of Recording about Video and Audio
Warning	Display Warning Message
Screen Mode	Division of Display Screen [1,1/4~4/4,1/9,10/9,16]
Channel Rotation	Automatically Changing Displayed Channel
PTZ Control	PTZ basic button
PTZ Speed Control	Slide bar for speed of PTZ movement
Digital Out Switch	Switch button about Digital-out on Capture board
Exit	Exit Button

SETUP

Preset ID and Password

The preset ID is set in **"Administrator,"** Password is set in **"Admin."**

Setup Tree

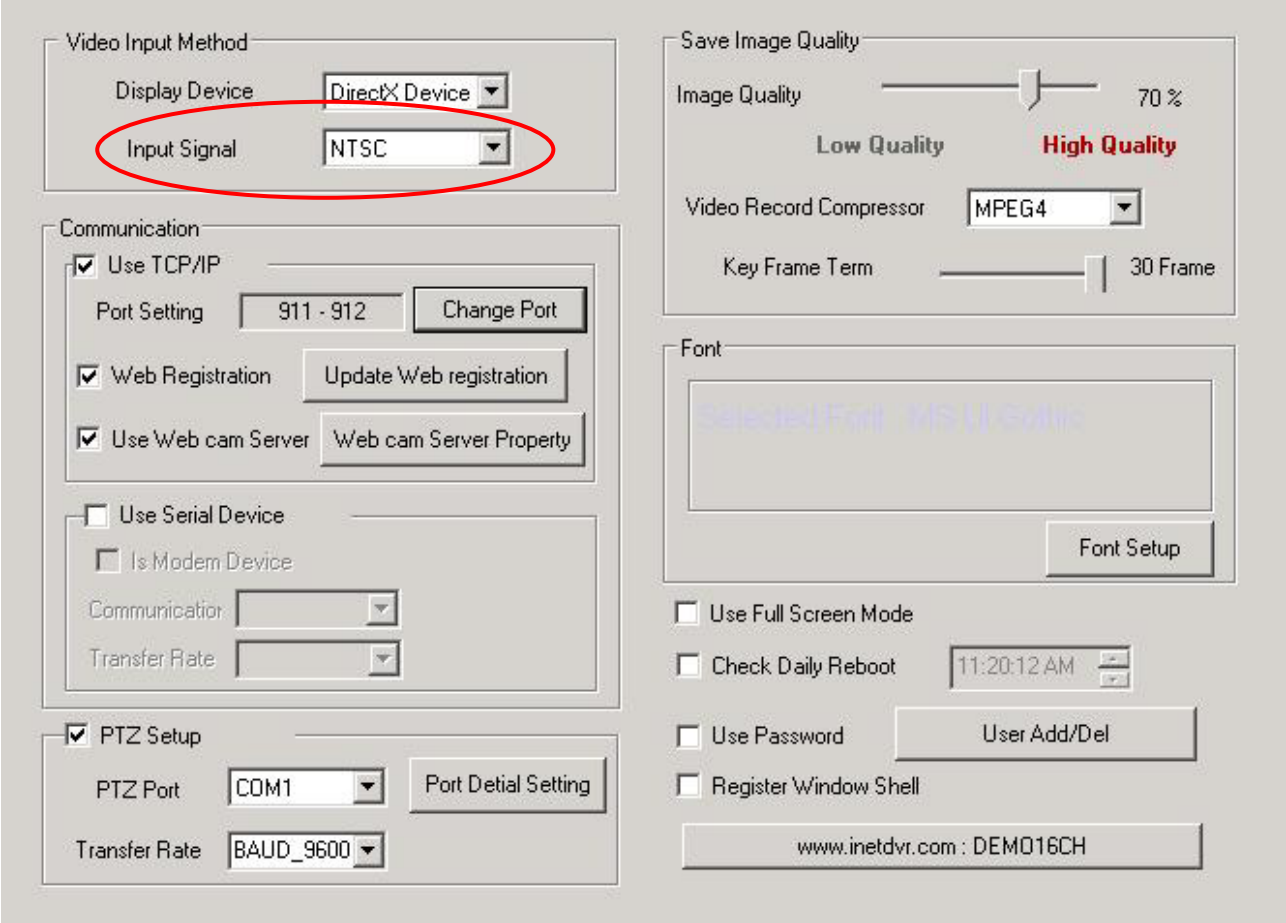
Display Device

Tab	
General	- Display Device - Video Input Signal - Communication Setup(WebCam Server) - PTZ Setup - Save Image Quality - Font - Use Full screen mode - Check Daily Reboot - Use Password - User Add/Delete - Windows Shell mode - Site Name
Sensor / Alarm Setup	
Camera / Motion Detection	- Camera Setup - Motion Setup - Overlay Setup - PTZ Receiver Setup
Audio Setup	
Schedule Setup	
Holiday / Recording Frame	- Holiday Registration - Event Recording Setup - Motion recording Setup - On Time recording Setup - Sensor recording Setup
Storage Space	
ETC	- Using Line Monitor - Using Alert Mode - Notify E-mail

Basically, iNetDVR supports DirectX, but the graphic card of your computer sometimes do not support above DirectX and YUV Overlay. In this case, you must set up **"Display Device"** to **"RGB Device"** (The default value is "RGB Device".)

Video Input Signal

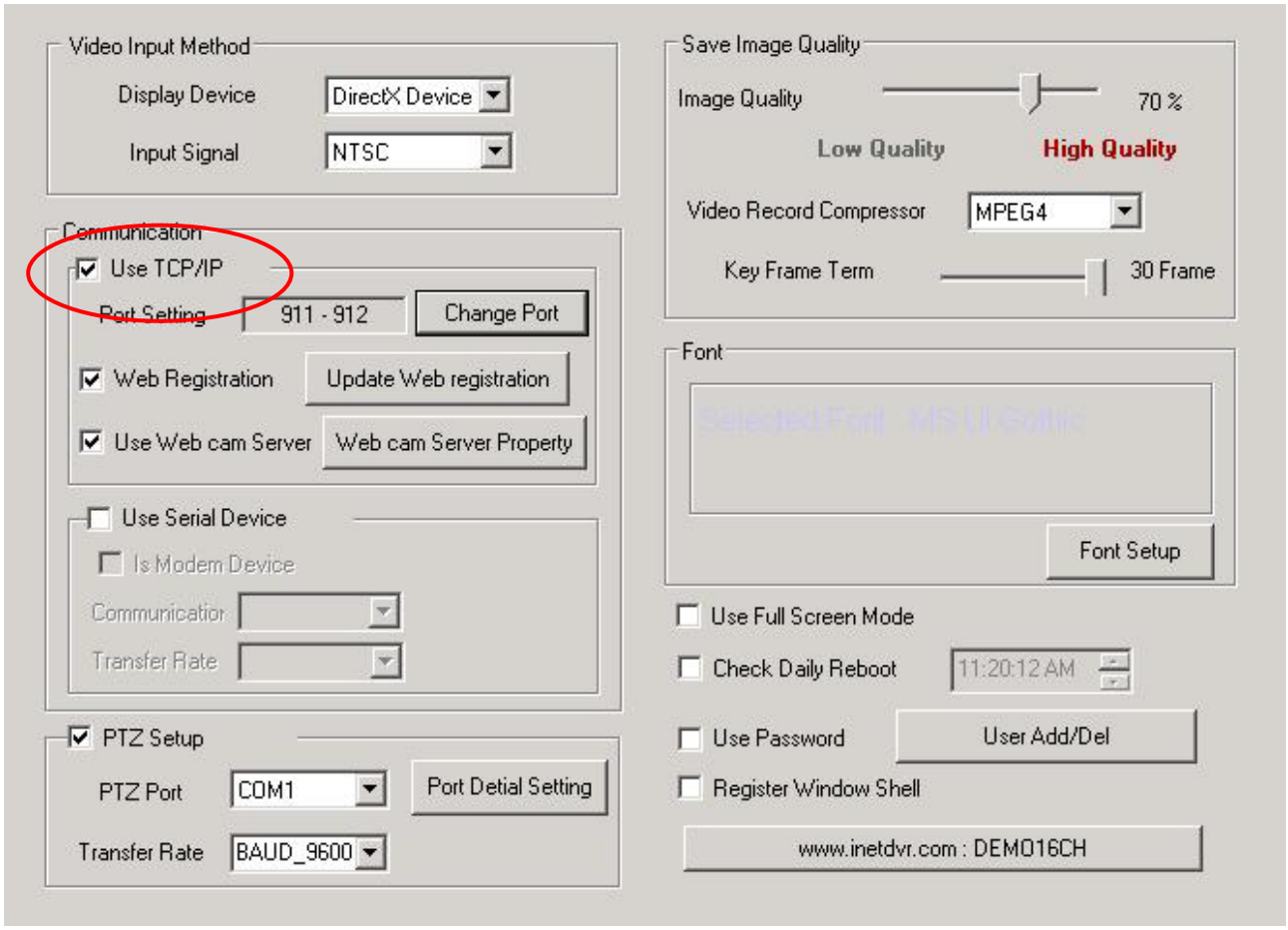
iNetDVR supports both of Video signal NTSC and PAL type. In NTSC, maximum recording speed is 30 fps, in PAL TYPE; maximum recording speed is 25fps on each channel.



Setup the communication

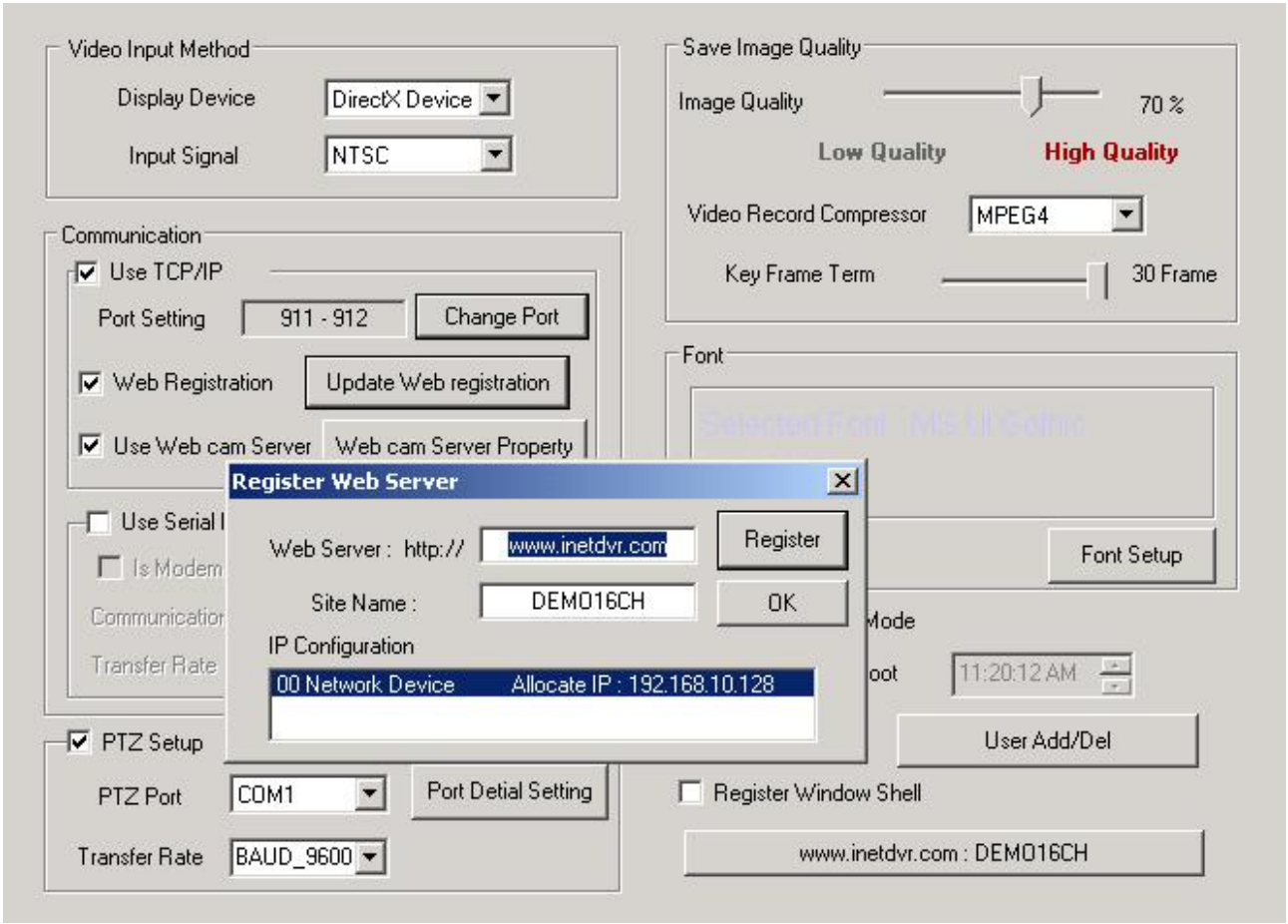
1) Using TCP/IP

- Check "**Use TCP/IP"** in Check box.



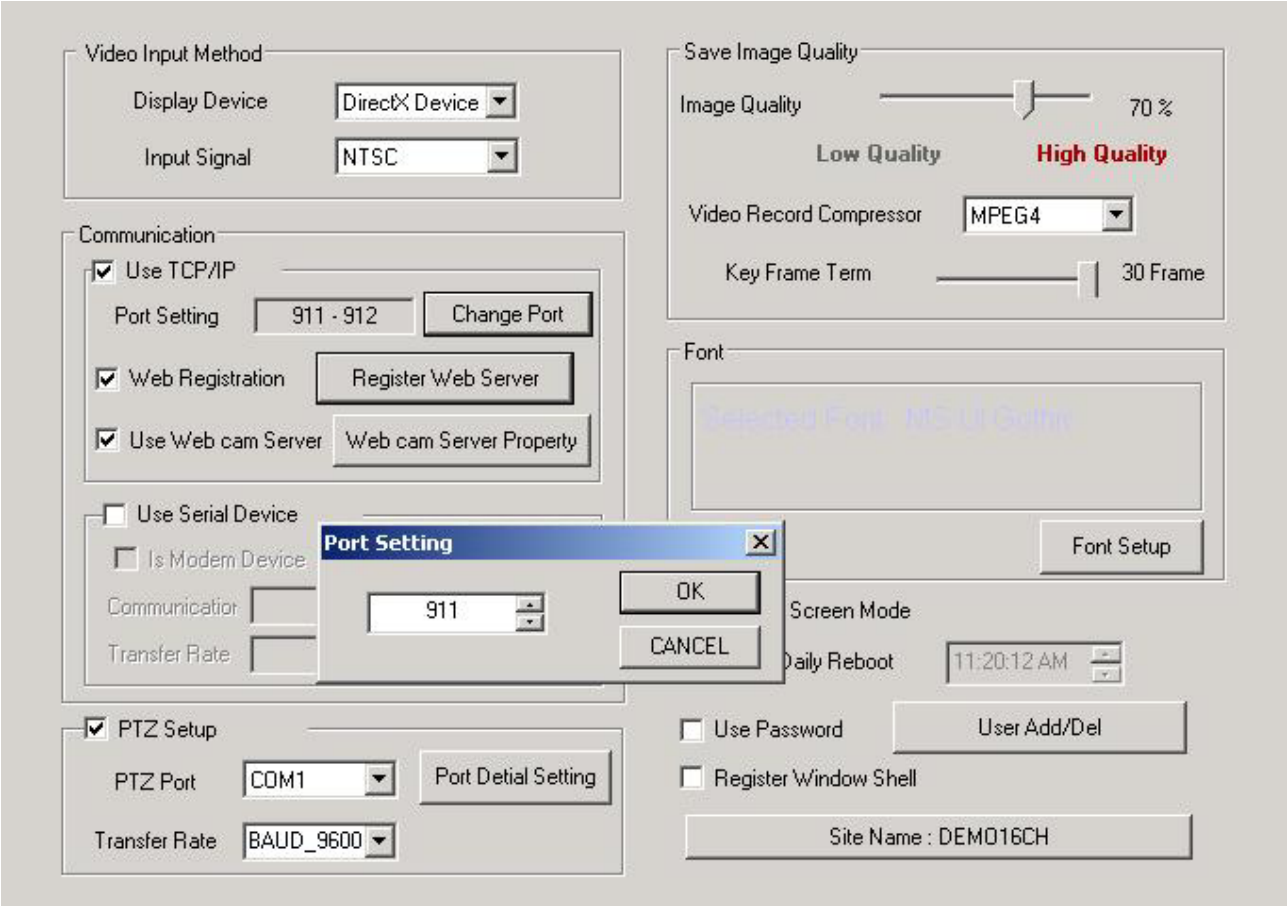
2) Using Dynamic IP by DHCP of ADSL, Cable modem.

- First, verify the network connection and Internet connection is working.
- Check **"Use TCP/IP"** in Check box.
- Click **"Web registration."**
- Click **"Register Web server"** -> Pop-up window will appear.
- Key in **"www.*iNetDVR* .com"** in **"Web server"**
- In **"Site Name"** key in a characteristics name instead of IP address.



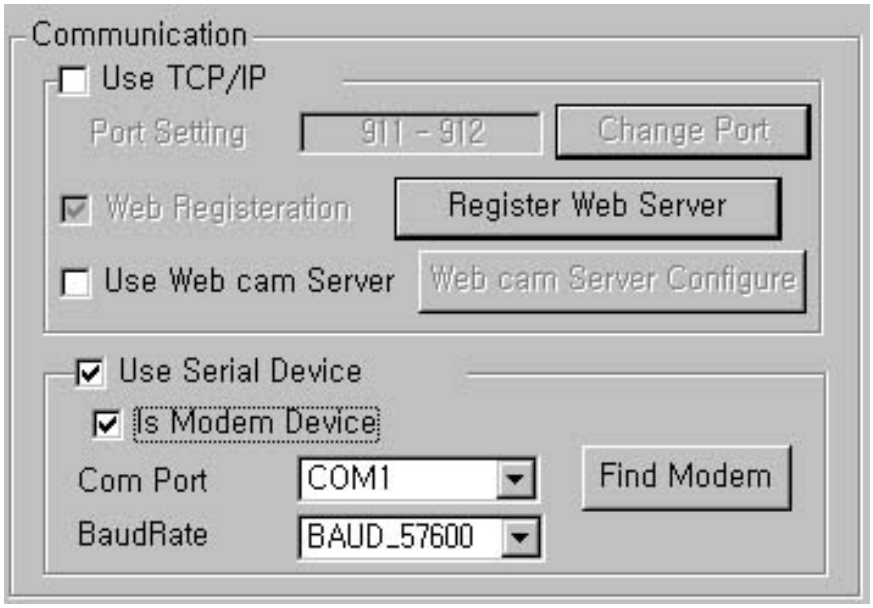
3) Using in network behind Firewall or internal IP.

- To set the Port settings, Select **TCP/IP** (default value 911 for Video, 912 for Audio), you must notify it to your network manager for these changes.
  (Please inquiry details to your network manager.)



4) Using Serial Device

- Check **"Use Serial Device"** in check box.
- Set up communication port and transfer rate.



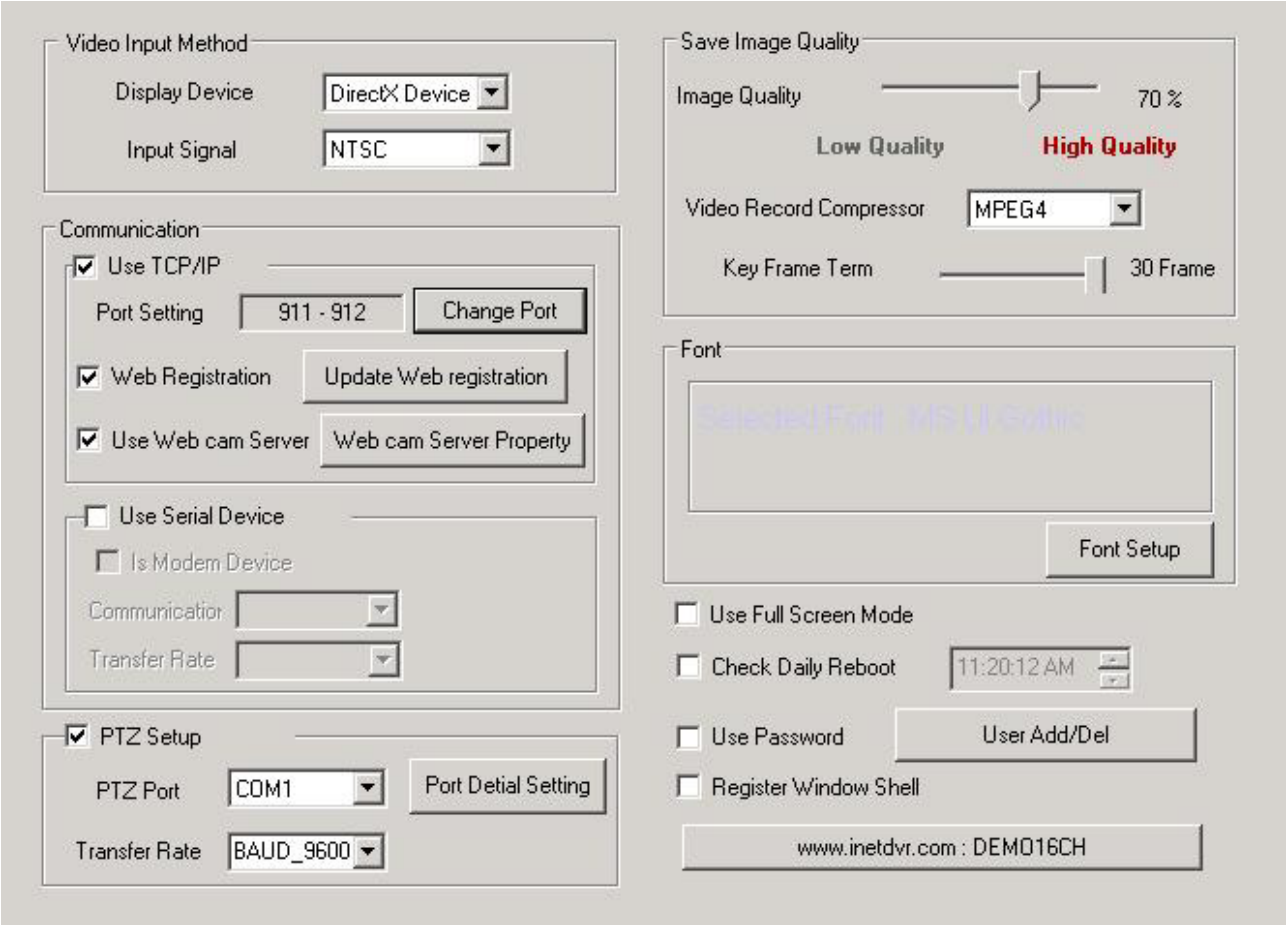
5) Using PSTN (Public Subscriber Telephone Network) Dialup Modem.

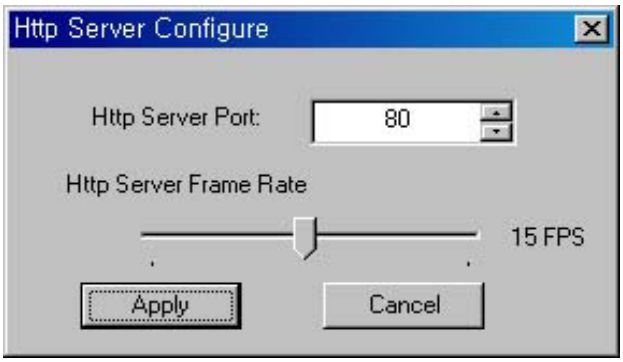
- Check **"Use serial device"** in check box.
- Check **"In Modem device."**
- Click **"Find Modem"** or set up communication port.
- Set up **"Baud rate"**

WebCam Server

1) Using a WebCam Server

Even if you have no client program at the remote site you can watch images to using a web browser. Check “Web Cam Server” for this function.





The value of default port is 80, but the user can change the value of the default port. If there is no display of the image, due to the firewall.(The remote user can connect the webcam server to the recorder without the network administrator authorization.

Note:

For broadband T1 and Dial up Connection

The user sets up the frame rate according to the communication speed of the on line connection. The maximum number of frames that can be viewed is 30fps. The higher the fps the more CPU resources will be needed from the server.

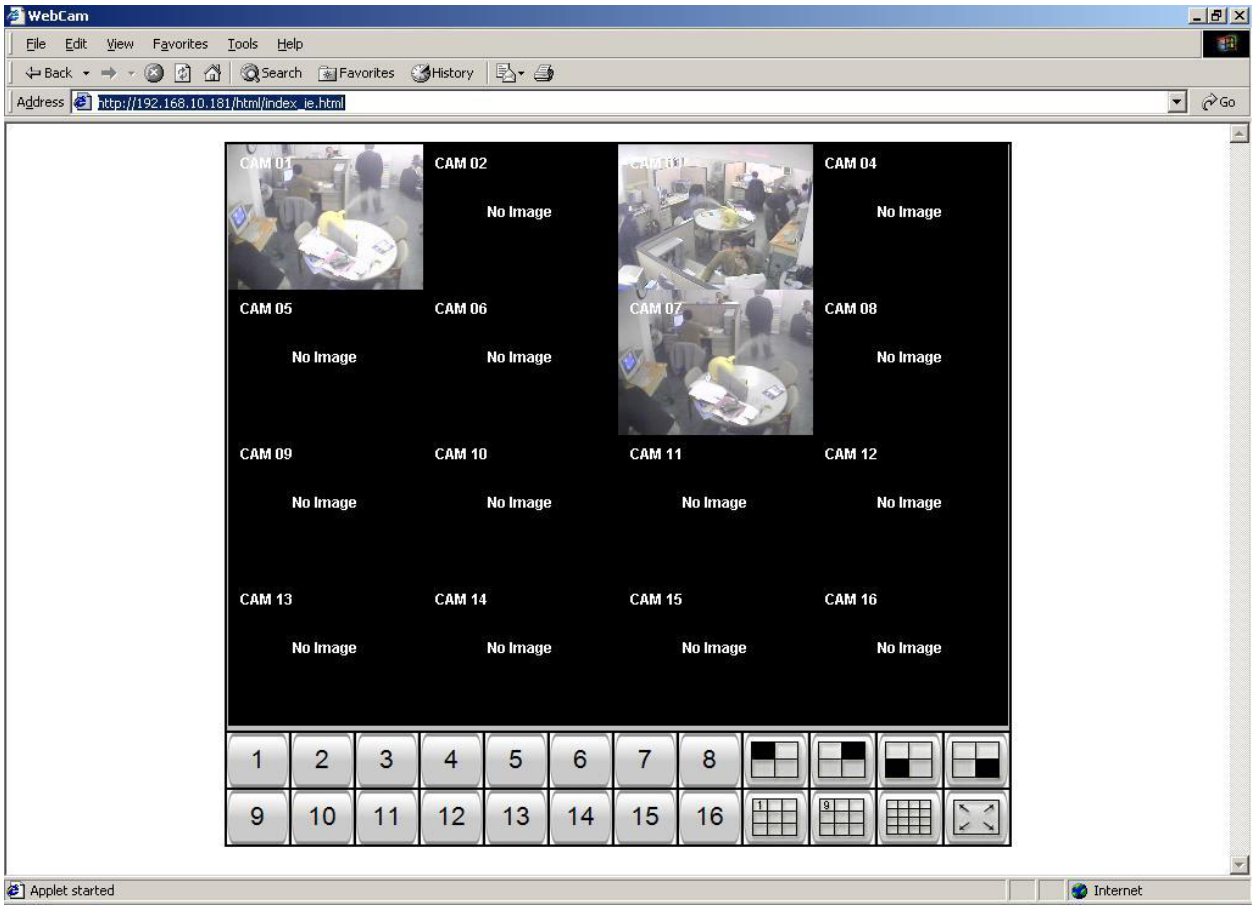
Therefore, the user can adjust the fps speed of upload from 1fps for PSTN Dial-up modem or less than 300Kbps, 2fps for 512Kbps and 30fps for 10Mbps on the basis of 4 channels.

※If you used WebAgent when you changed Web Server Port, WebAgent should be reinstalled.

2) Viewer

When the user is monitoring the image through web browser, the user must set up the IP address of the server and port number, through the WebCam Sever set up port. If WebCam Server set up default port, that is Web server port, so you could insert just IP Address on web browser.

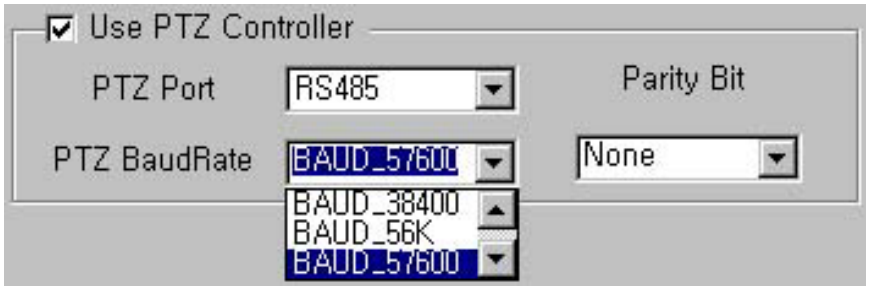
For example, enter "**http://192.168.10.99**" or "**http://192.168.10.99/html/index.html**" on the location window of the web browser.



PTZ (Pan Tilt Zoom)

Set up communication port for control PTZ, transfer rate, parity.

The PTZ Receiver uses RS-485 communication protocol, and you can reserve that port for DVR capture board. “COM1” or “COM2”, can only be used for (RS-232C) protocol.

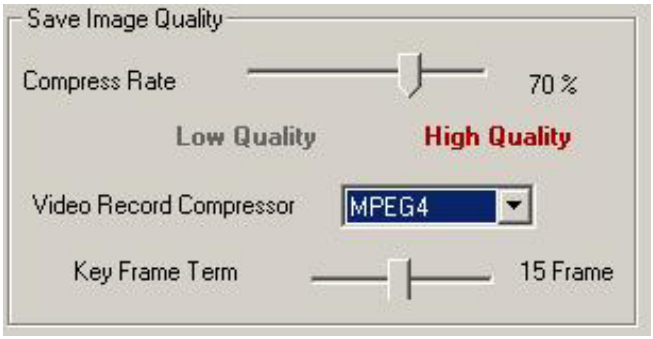


iNetDVR supports setting each PTZ Receiver by different ID number (in tab “Set up Camera”)

Save Image Quality

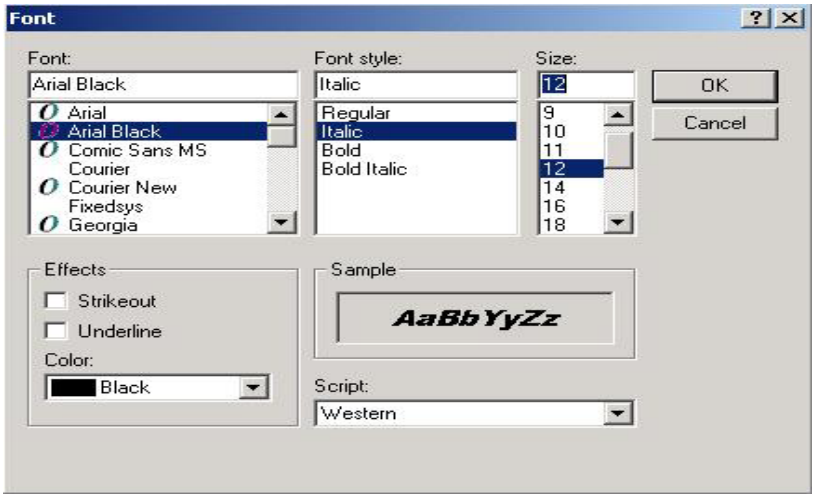
iNetDVR supports MJPEG and MPEG4 algorism.

MJPEG, provides higher image quality, While MPEG4 provides a higher compression rate. When selecting **MPEG4**, you must to set Key Frame term.



Font Set up

User can change font of camera name.



Full Screen Mode

If there is no keyboard or mouse movement within a 60 second period the screen will automatically be changed to the full screen mode.

Daily Reboot Feature

When the daily reboot function is checked, the system will automatically reboot itself at the prescribed time. When systems are running for long periods of time they tend to accumulate very large memory files which can cause the system to freeze up. This feature is very useful for assigning dates and times to automatically reboot the system.

Use Password

Only authorized person can use the set-up page to change contents or shut the down.Default User ID/Password is “**Administrator/Admin**”, “**Anonymous/Guest**”

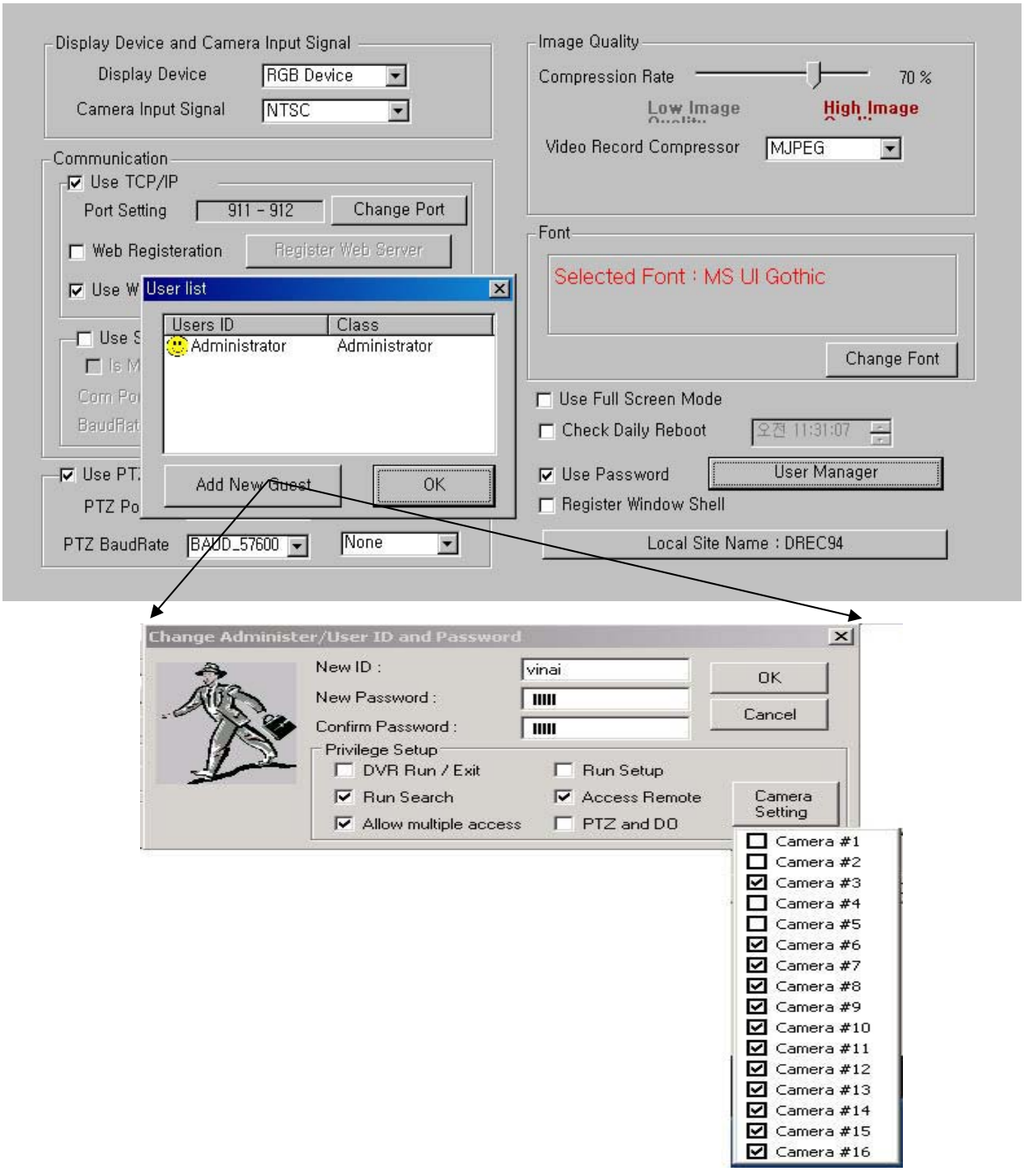
It’s necessary to set authorizations for other User ID’s operation and Remote Access.Specially, “**Anonymous/Guest**” is important when you used WebCam Server.

When you accessed Webcam server, the Server will be start to find “anonymous”. If the User ID is existed, the Server is checked channel which camera channels are shown by server setup.

Otherwise, If there is no ID:Anonymous (ex, ID:Anonymous was Erased), every camera is not able to access by anyone.

User Add/Del

To register new user, click **"User Add/Del"** button, and then click "**Add new user"**. Insert new ID and Password about new user. In user authority, **"allow multiple Access"** have the function that multi user can do simultaneous access.
However, supervisor is not permitted multiple accesses (Person that have authority of run/end, set up it.)



Window Shell Mode

If you wanted to use your computer for DVR, Check this box.

If you checked this, after computer rebooting, Only DVR runs on your computer without any application.

Site Name

This system window with “Site Name” to distinguish another DVR’s from remote client Program.(This is same with site name of “register Web Server” in “Set up – communication”.)

Sensor/Alarm

This section defines the sensor/alarm action.

iNetDVR supports 2 type of Sensor/alarm action.

"x": If sensor works, record those images according to schedule.

From above "x," click right mouse, you can use extension functions (Preset, Light On, User Operation).

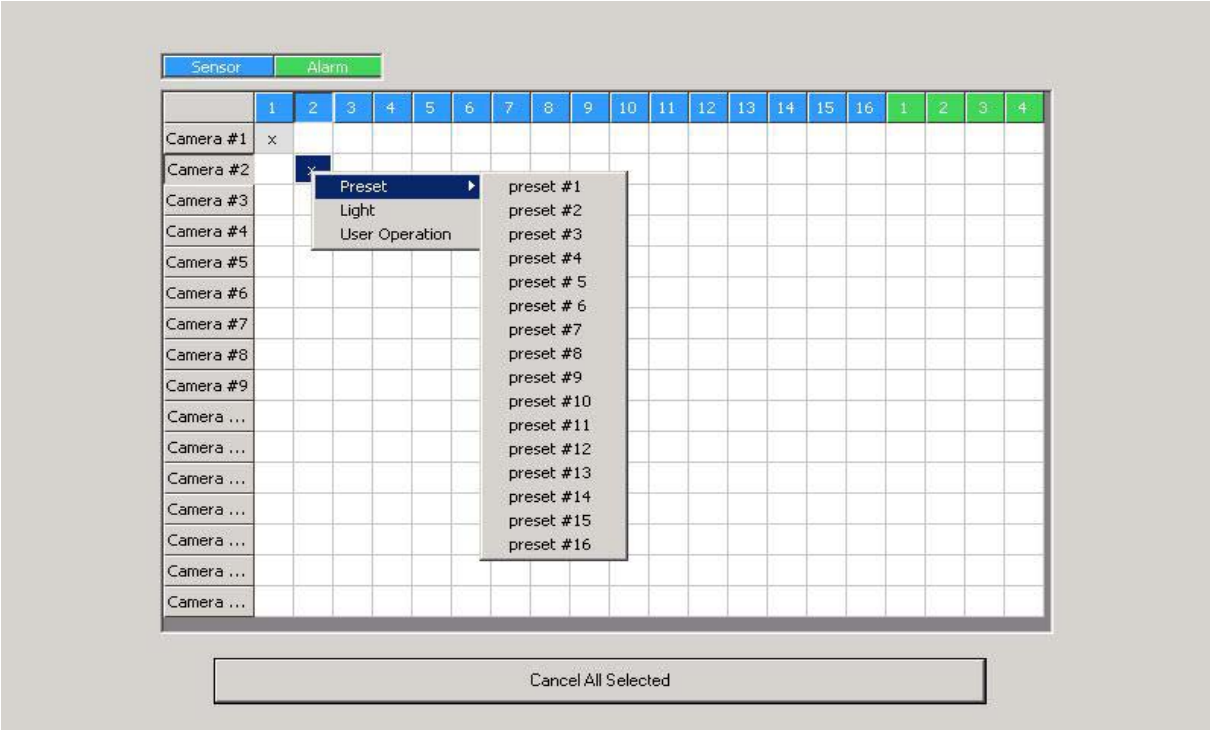
When PTZ was supported,

"P1 ~ P16": When sensor works, camera operates to preset location.

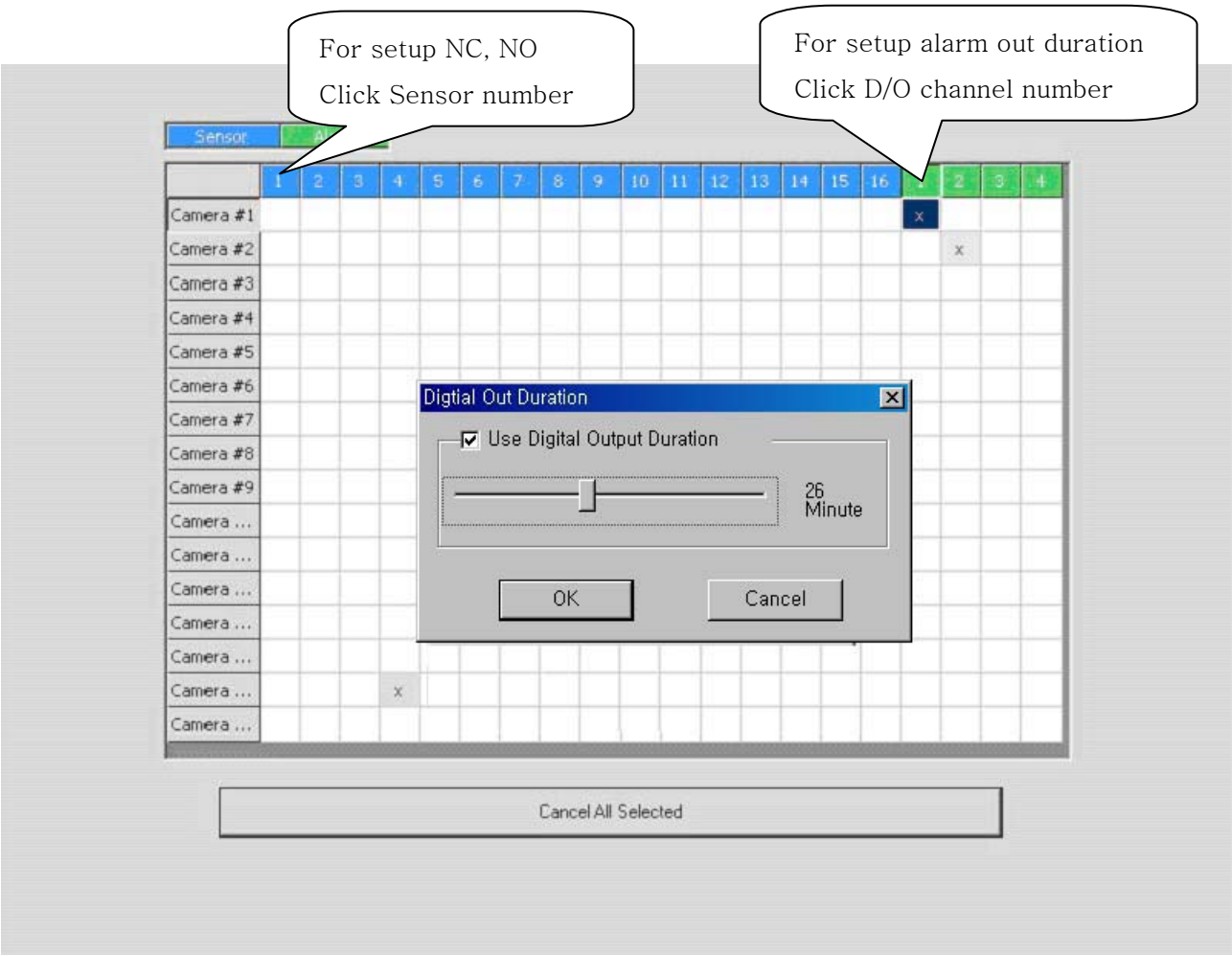
"L": When sensor works, turn on light.

"U": This function controls the Aux 5 of PTZ Controller from user operation.

As above, only PTZ controller is supported. If not so, and you use to alarm control in DVR Board, you can click alarm number connected with sensor number. You can set up one sensor/alarms or sensors/ an alarm.

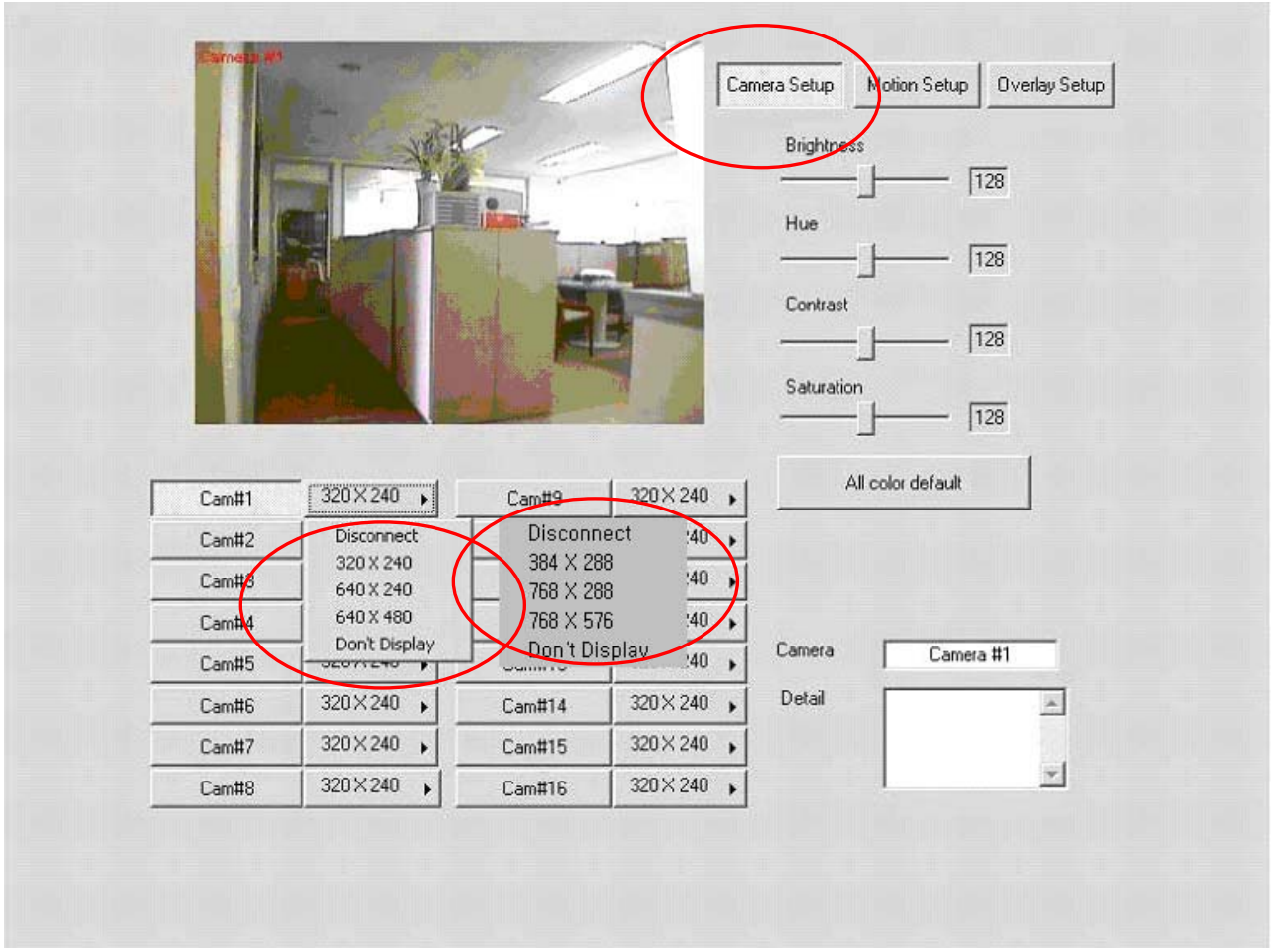


You can set NC (Normal Close), NO (Normal Open) and Alarm out duration.
Digital out is worked by event on schedule, during how long time you set.
It's not worked when you switched digital out.



Set up camera connection and resolution

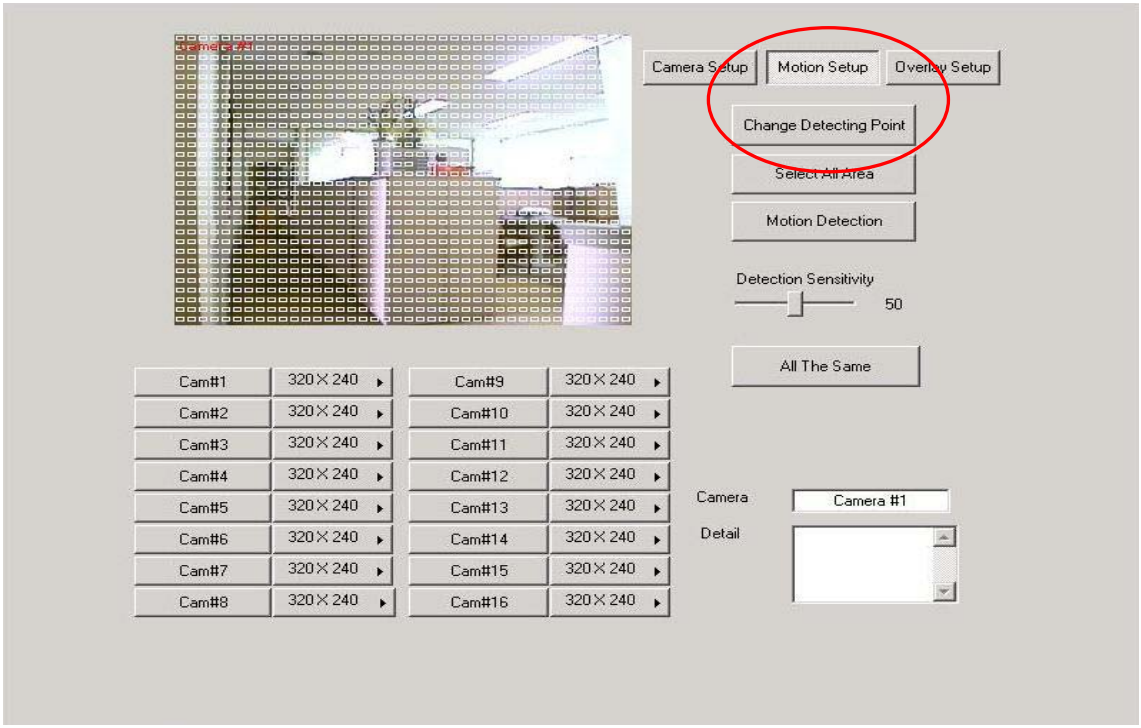
iNetDVR program can identify camera signal automatically though the camera connected. When you do not see images (because of camera broken, disconnection of a cable), ”Video loss” will occur at local or remote monitoring center. The recording resolution is supported by 320X240, 640X240, 640X480 on NTSC, 384*288, 768*288, 768*576 on PAL. **“Don’t display”** is a function that will not display on *iNetDVR* Screen, but will continue to record on the DVR.



Camera/Motion Detection

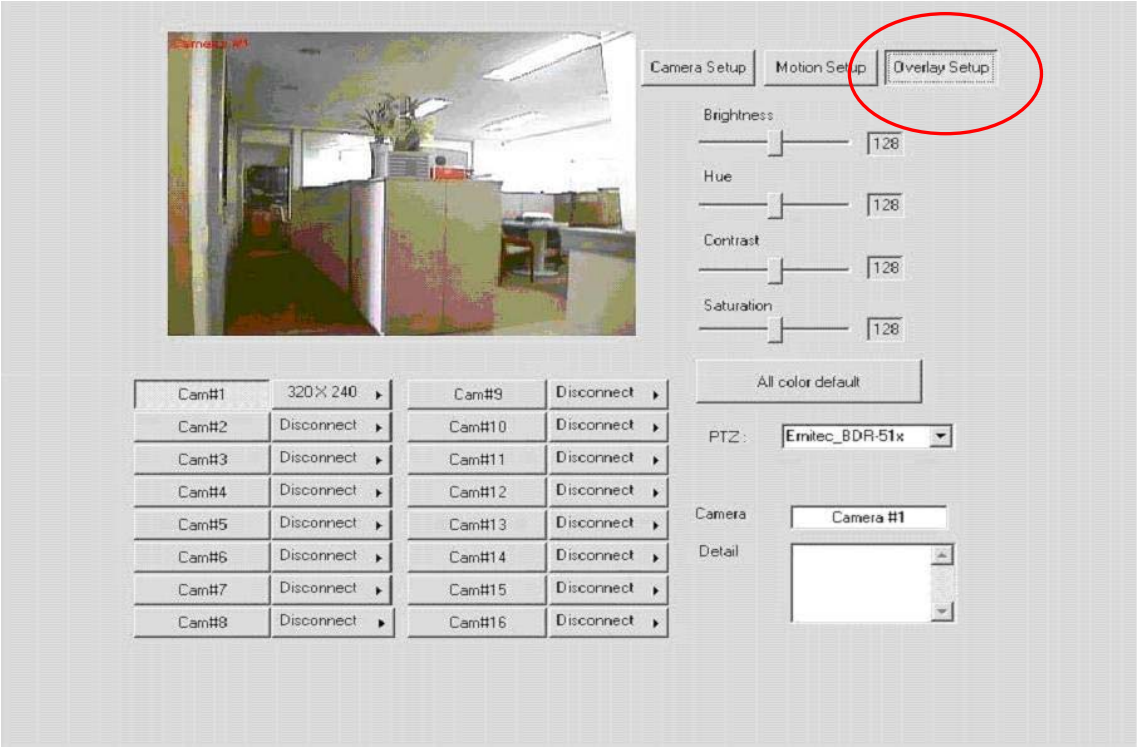
To set up the Motion detection area, click and drag the left mouse button. To cancel the area, click and drag the right mouse button. Clicking on the "**Detection sensitivity**" button, you can control the sensitivity of Motion Detection.

Also if you couldn't notify Motion detection area very well, you can change the color of Motion detection area to other color by clicking **"Change detecting point"**



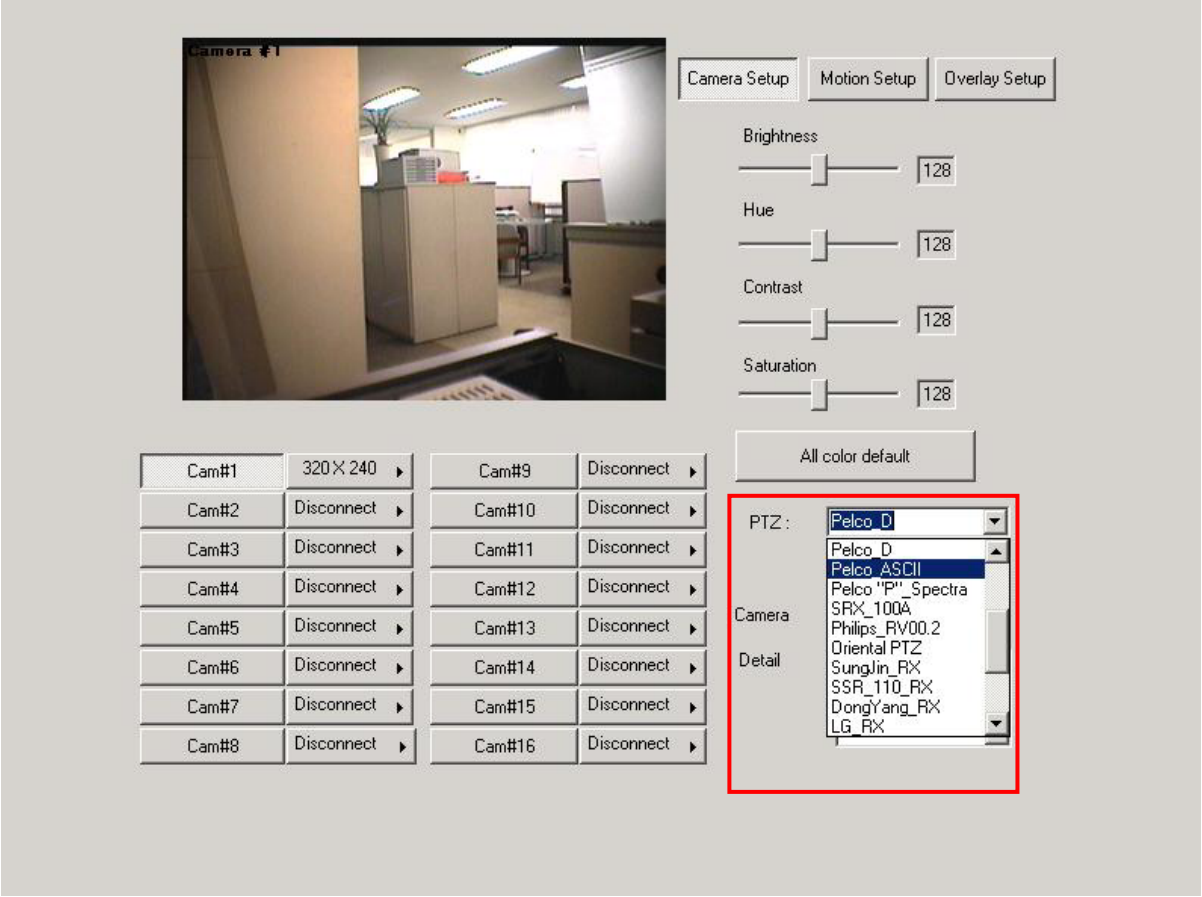
Set up overlay (Advanced Model)

If you use Overlay board (GVC-16R), you must set up brightness, color, etc. of Overlay board in addition



Set up types of PTZ Receiver

You can set up different types PTZ receivers.



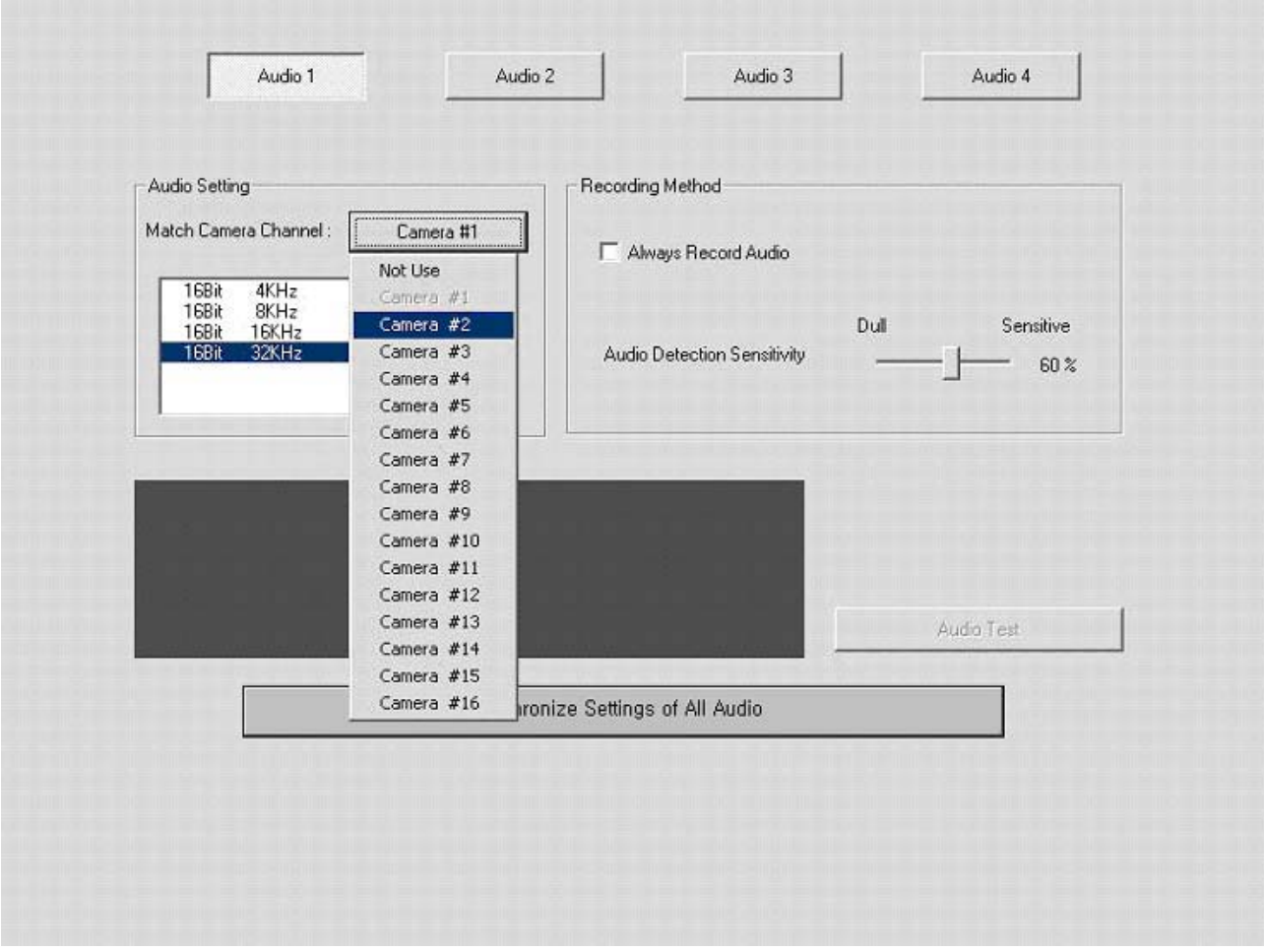
Set up Audio

This function is a part that set voice sensitivity compounding camera. User can set up camera and audio environment to use audio. Click camera #1 button Setting audio, Icon of speaker shaped come out in lower column part.

"Audio setting": Lower button is better quality, but file size is getting bigger and bigger.

"Recording method": Always recording audio: If you can not click this button, audio will be recorded only when motion detection works.

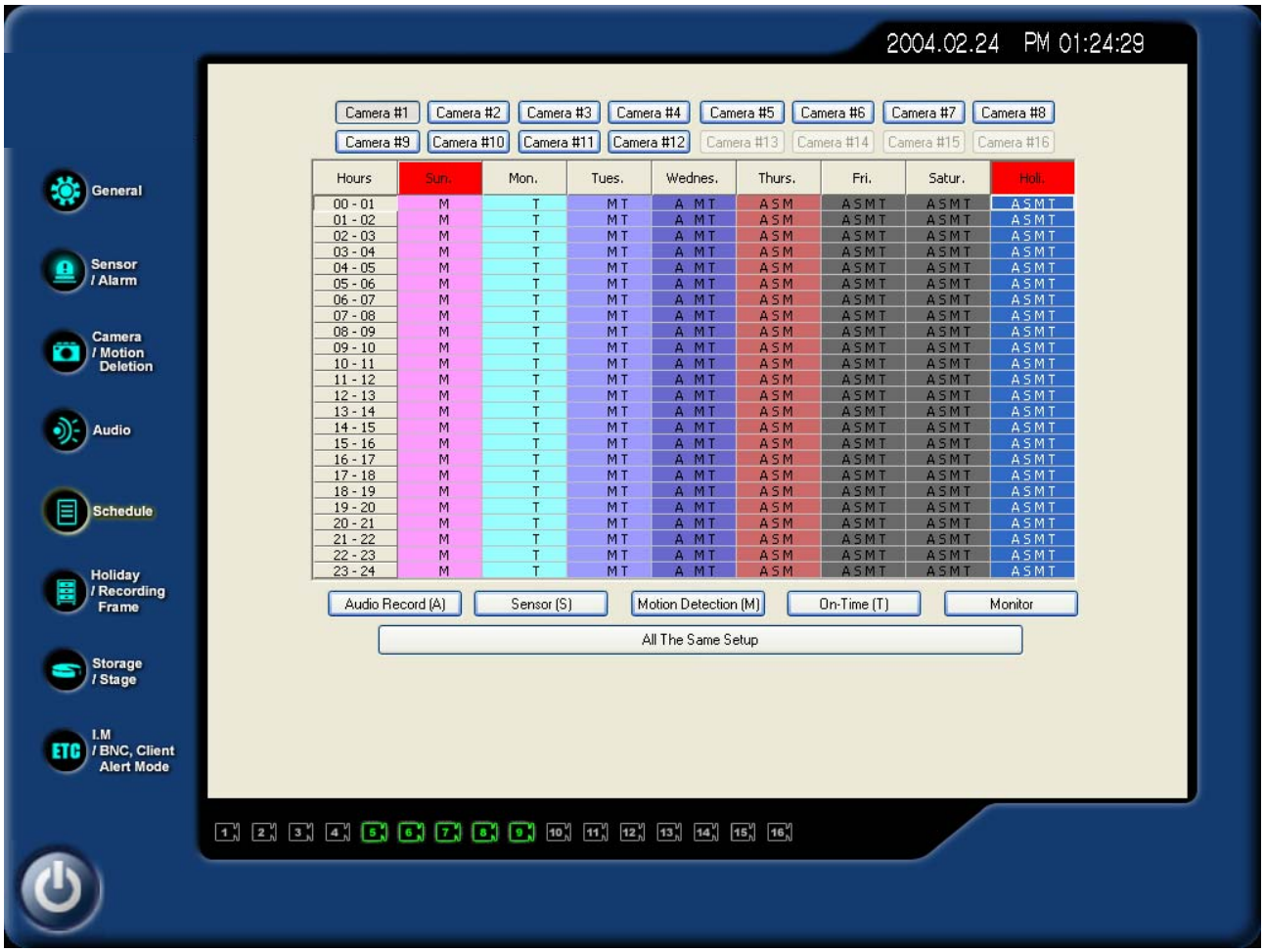
After connecting a microphone, press **"Audio test"** button, you can see yellow pulse signal. If it sounds too small, you should control **"Gain"** value.



Recording schedule set up

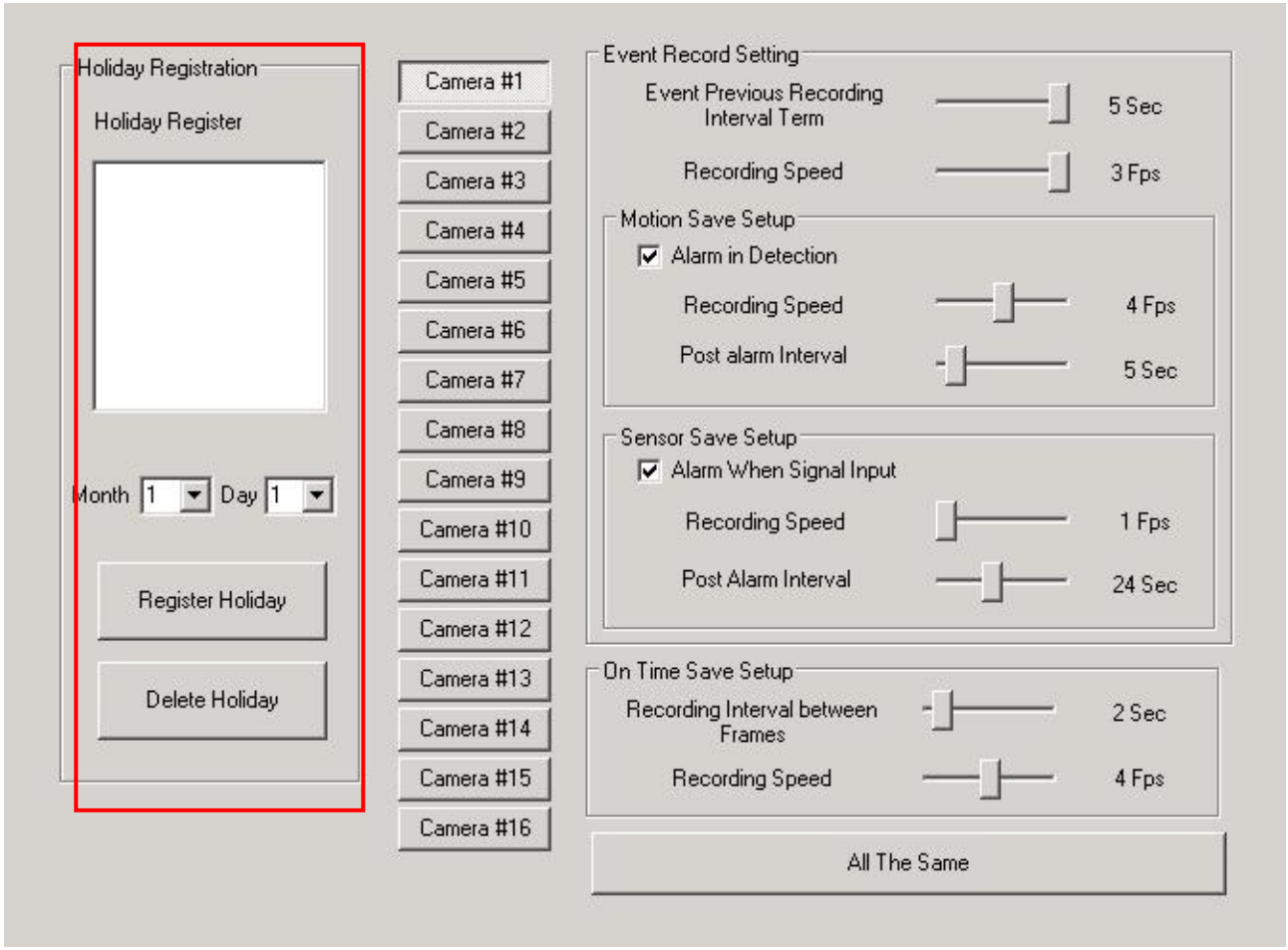
If you wanted to compound schedule with “Audio(A)”,“Sensor(S),” “Motion detection (M)”, “ON-time (T), after clicked one of those buttons and drag with push on left mouse button.

※If you want to record Audio, audio is set up on schedule.
If you want to record external device, sensor is set up on schedule.



Holiday Registration

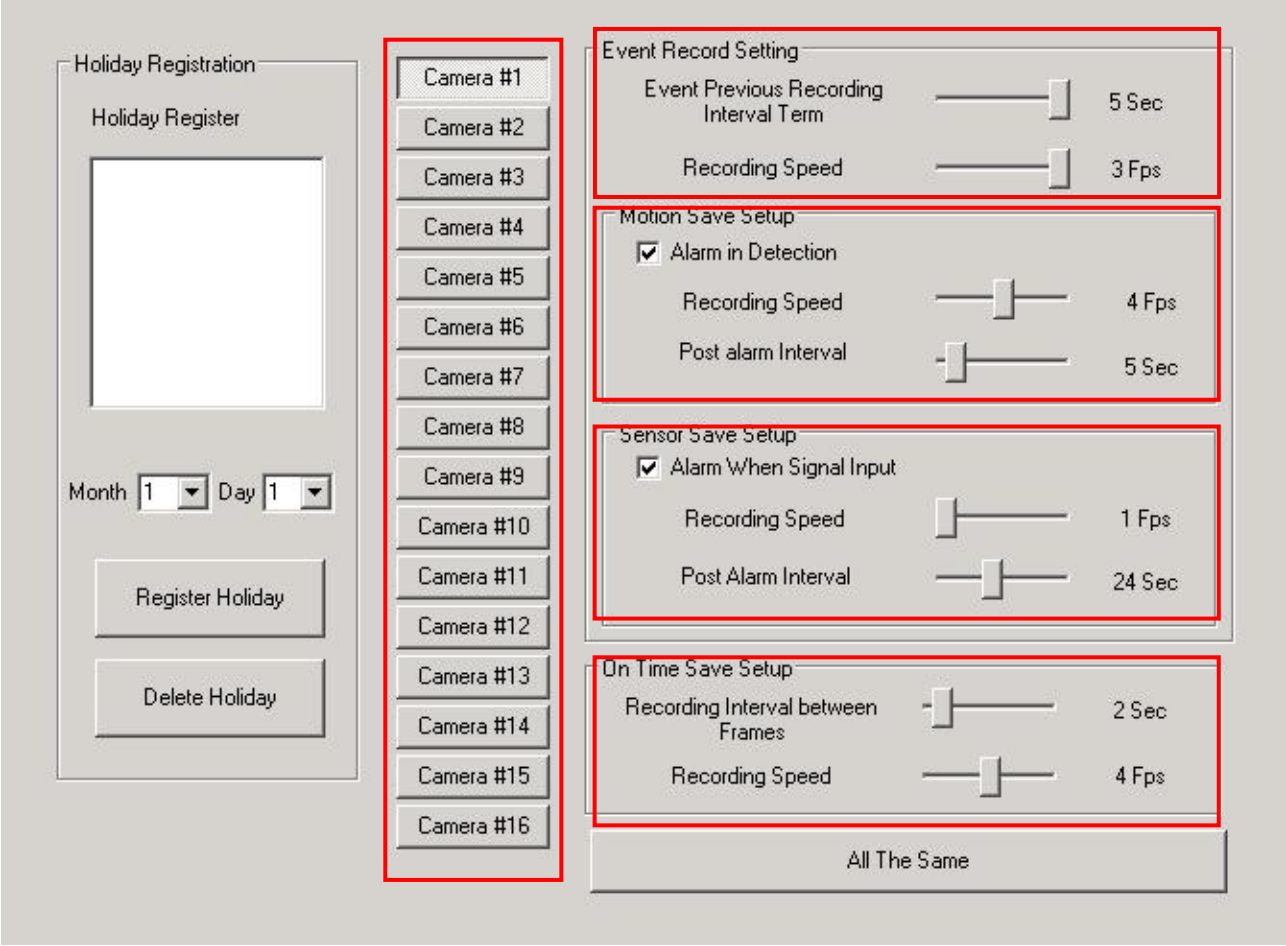
You can program holidays, to record or not to record on the registered holiday.



Motion Record Set up (Each Camera)

To activate **"Alarm in Detection"** and **"Sensor in Detection,"** click on the check box marked ALARM IN DETECTION.

The post alarm recording may be adjusted from 0 to 60 seconds by sliding the bar forward or backwards. This will allow recording to continue after motion has stopped.



PreAlarm Recording Setup(Each Camera)

You can set the Pre Alarm Recording time from 0 to 10 seconds. This will retain the recording of up to 10 seconds before the event occurs or the alarm is triggered.

Motion Detect Record Setup(Each Camera)

if you want to record image when Motion-Event occur, Check the check box about "**Alarm when detected**" and set slide bar for recording property.

Sensor Record Set up (Each Camera)

If you want to record image when Sensor-Input occur, Check the check box about "Alarm when signal input" and set slide bar for recording property.

On-Time Record set up (Each Camera)

When Ontime-Recording occurs, an image is recorded 15 fps for 7 second.

Set up storage space

Following the initial installation of the software you must set up your disk storage space allocation. This allocation of storage space is user defined and can be allocated in several different hard discs. Storage space is displayed in 3 types.

Application space: Space that installed OS, DVR Program and some Application program.

Already Created data space: Space that set already to data space of DVR.

Able to create data space: Data space except reserved user free space in empty space of drive.

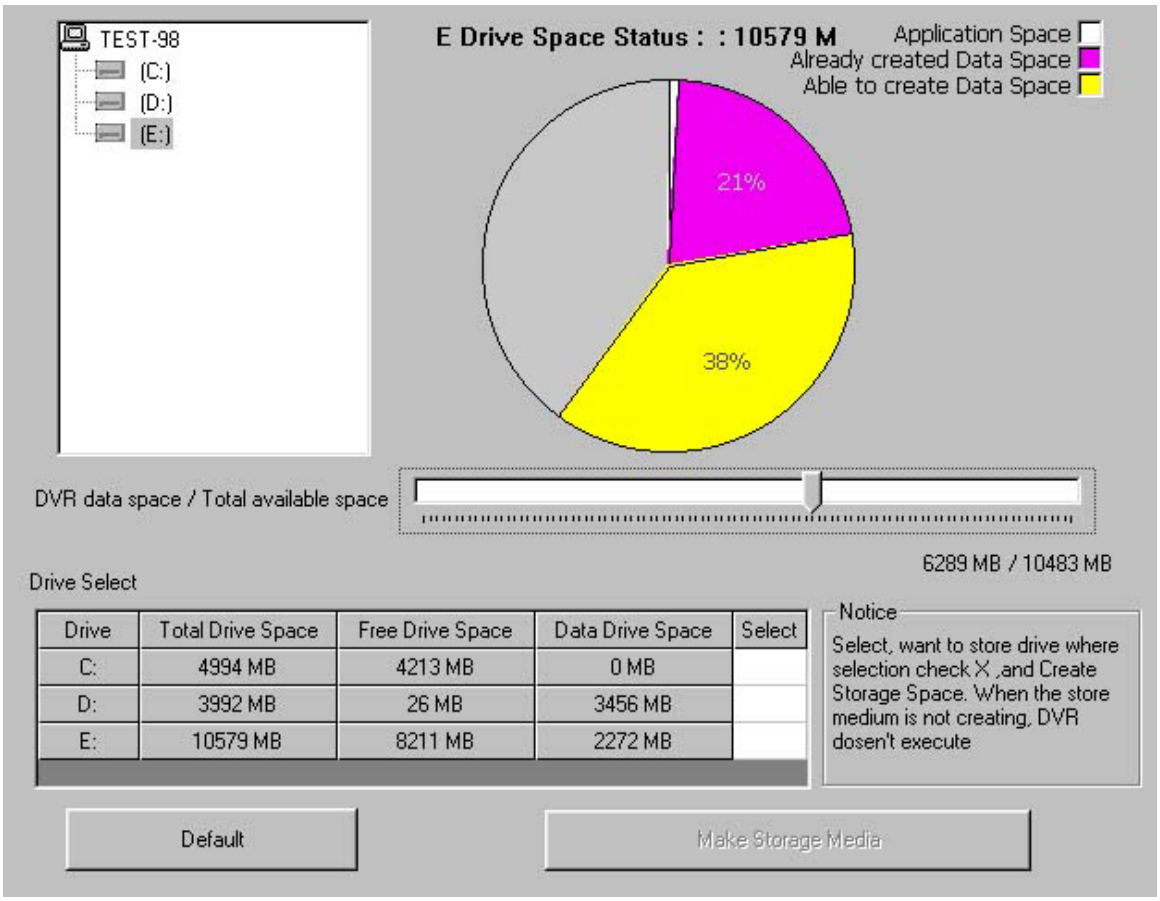
※Notice: Free Drive space is necessary for the stability of your system to work well. So when DVR shows Free Drive Space, DVR calculate Free Drive space except the Space for the System Work.

-See the pie chart for making **"Storage Space".**

-Select Driver where you to make storage space to save recording data.

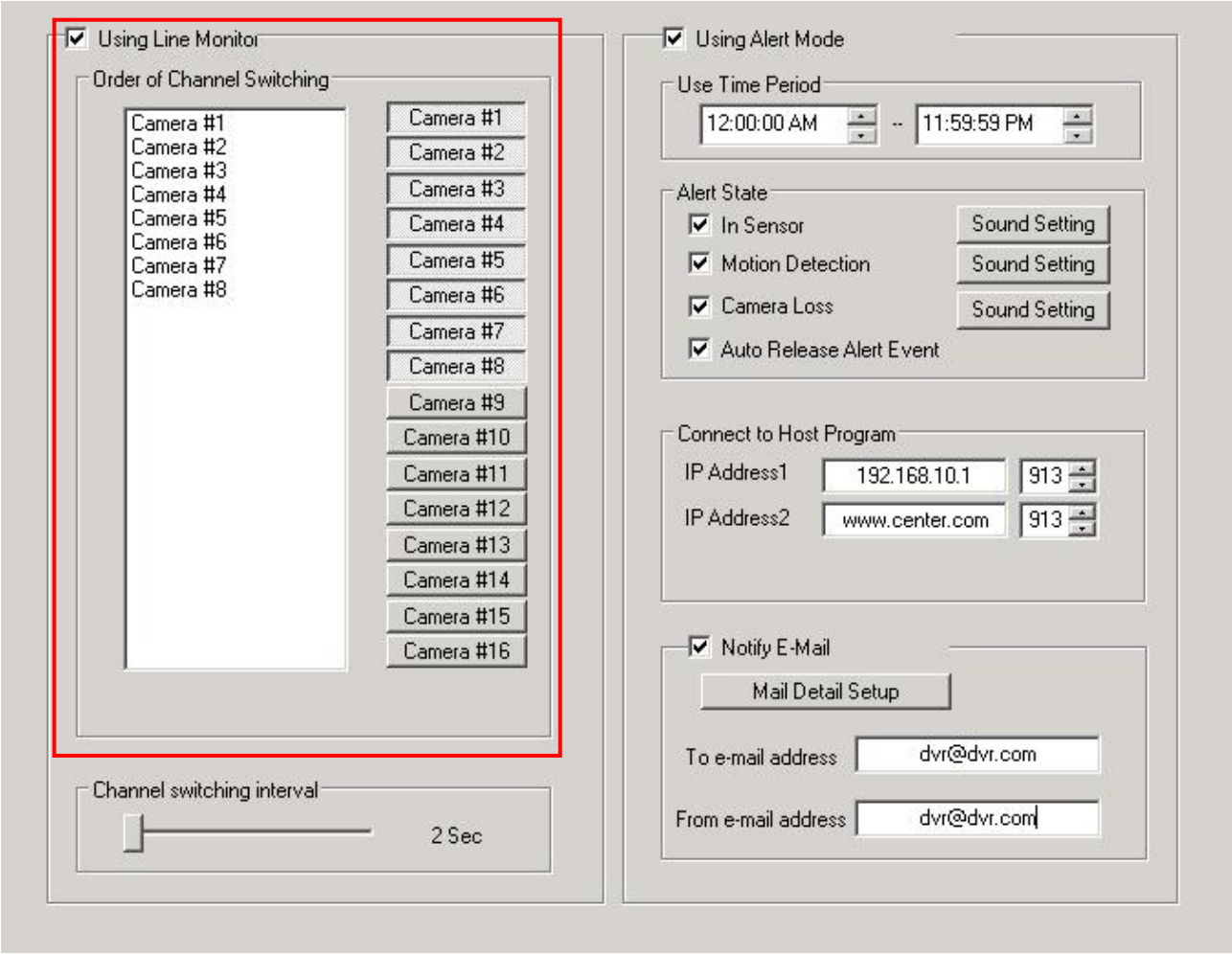
-Move slide bar to how big size you want.

-Check select box and click **"Make Storage Space"**.



Using Line Monitor

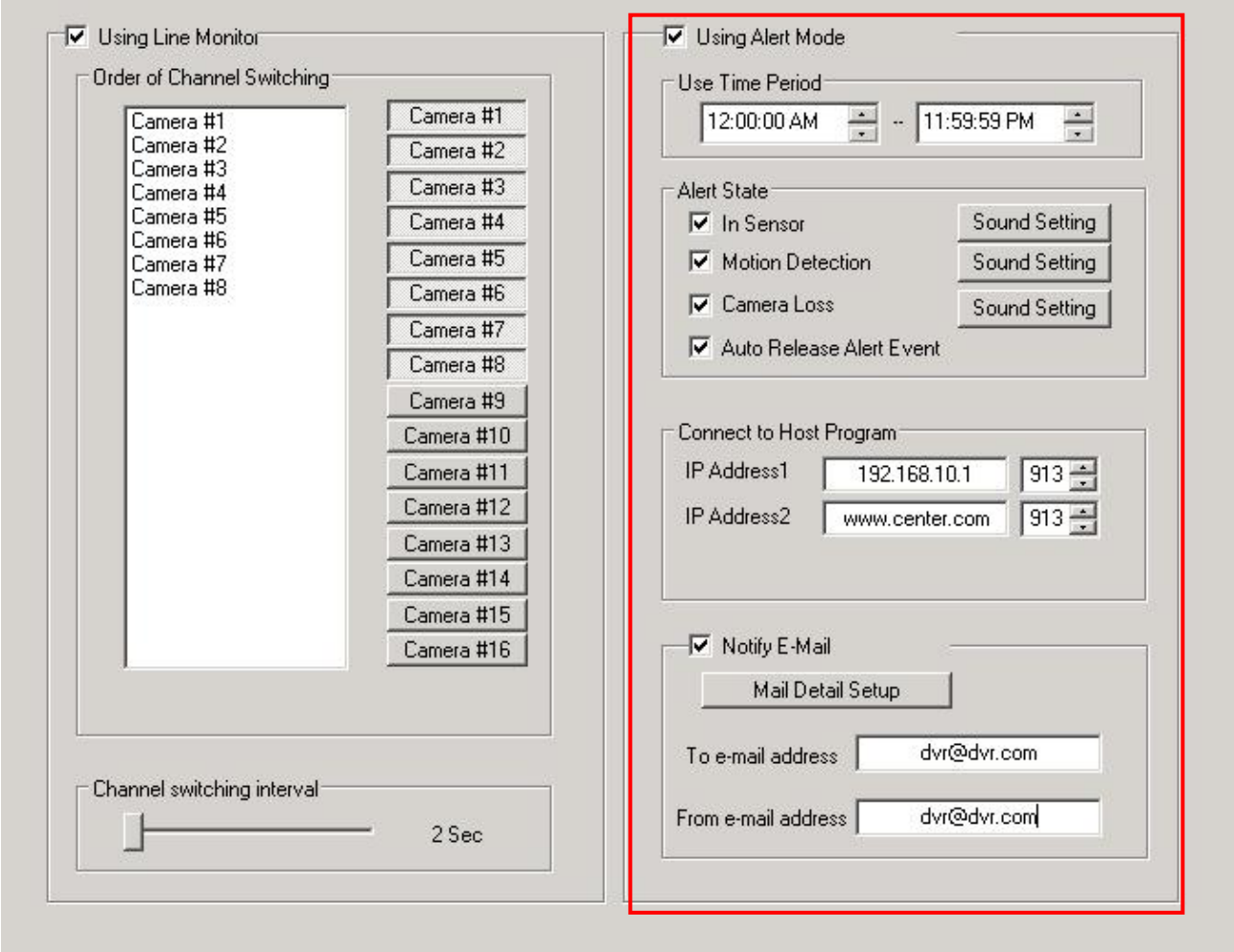
You can connect an additional monitor to view the camera activity using the TV OUT RCA connection on DVR board. Select the line monitor function to display the desired camera output. The images then be displayed in full screen by rotation.



※ If you make system with more than two pieces of board, you have to connect monitor to Line monitor port of each board.

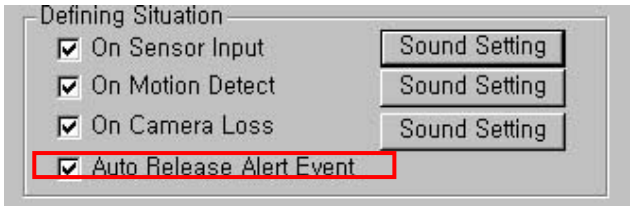
Using Alert Mode

When sensor input is triggered, or detects motion from server system with registration of pre-designated client communication address, the detected data information is transmitted with alarm to predestinated remote multi viewer when connecting in a network.



Auto Release Alert Event

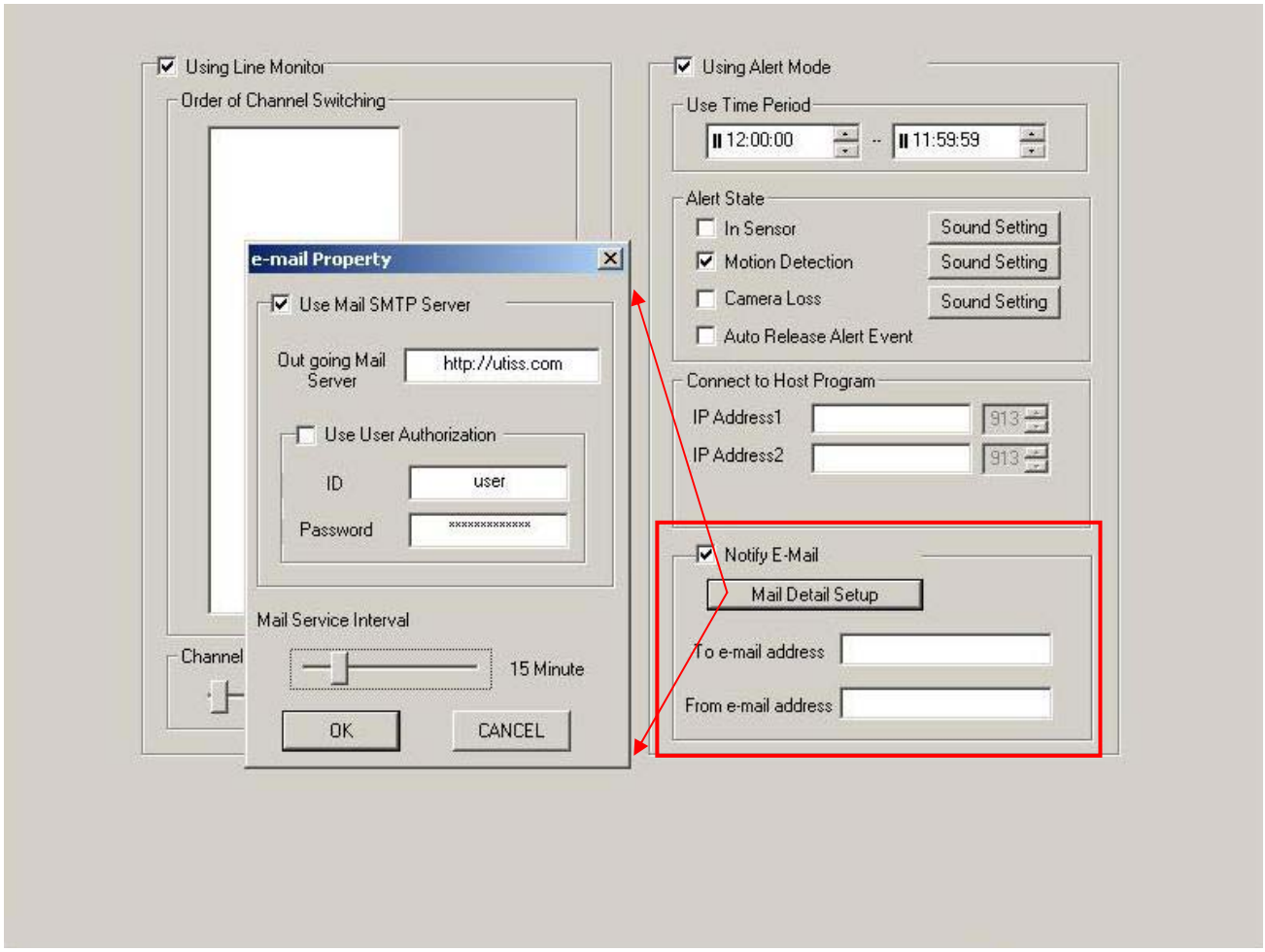
To release an alert event automatically, check the Auto Release Alert box.



Notify E-mail

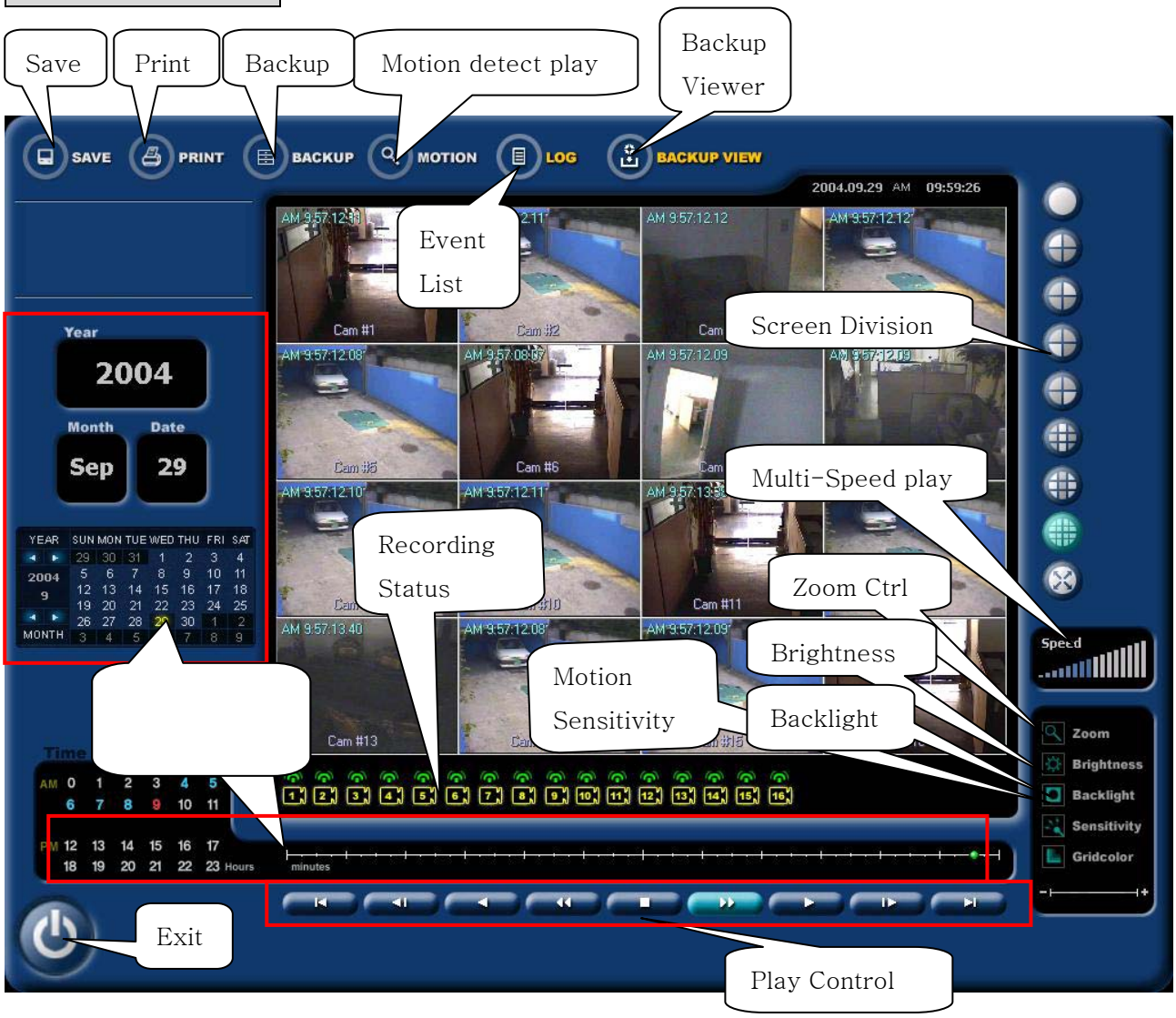
As detecting sensor, motion set in alert mode, Final image of camera and log data detected is informed to assigned E-mail address.

(For example: “dvr@dvr.com;bbb@dvr.com.net;mail;ccc@dvr.com”)



Local Viewer (Search)

Screen Overview



It's displayed when *iNetDVR* 's setup is for NTSC. [General tab in Setup See pg.10]

It's displayed when *iNetDVR* 's setup is for PAL. [General tab in Setup See pg.10]
Cause PAL Type has bigger image size than NTSC



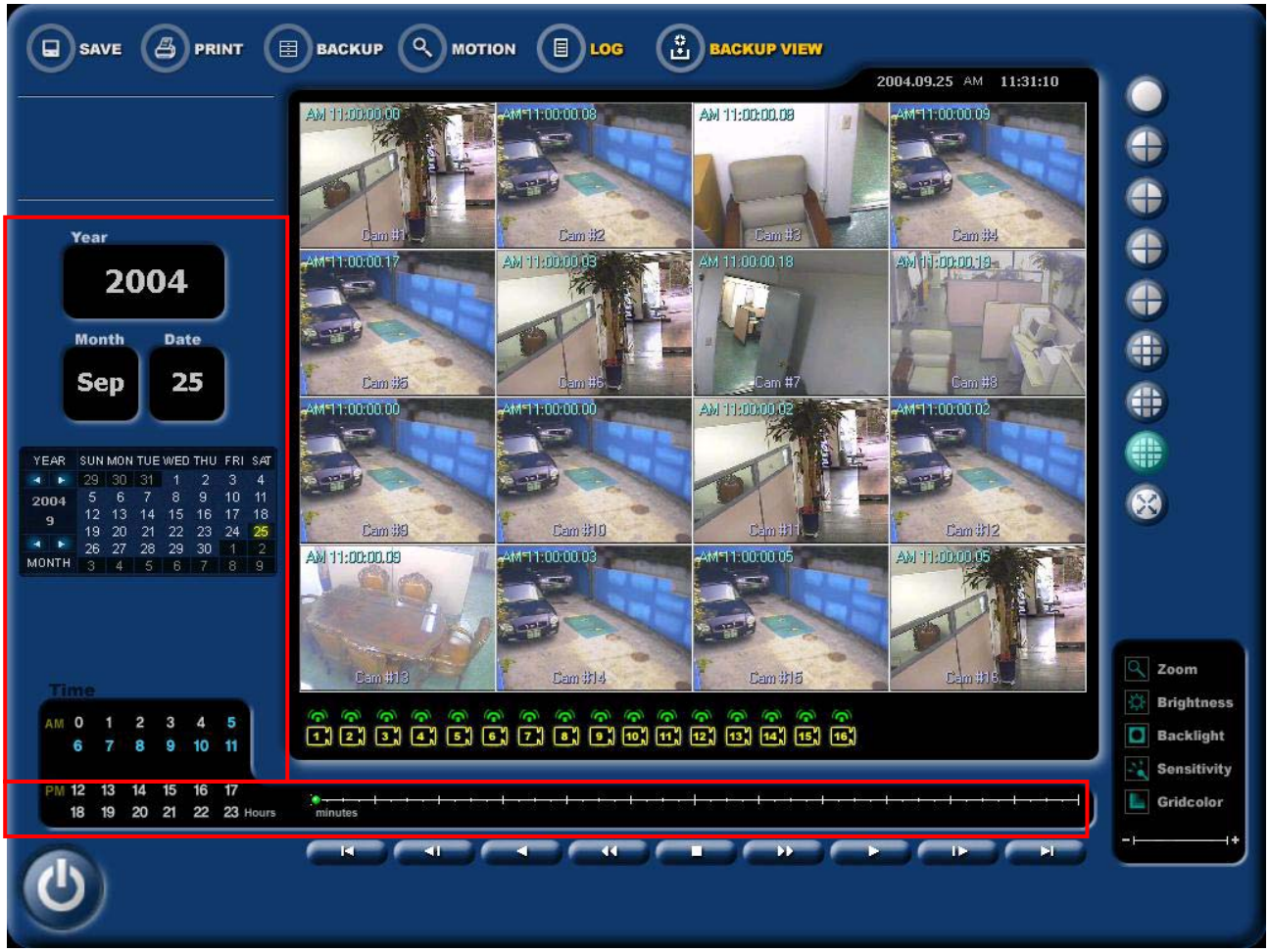
Running Search program

From main screen click **"Local Viewer (Search)"** button.

Choice Date and Time

The Date has data, is marked in highlight on displayed calendar. Also the time is marked in highlight on selected date;

Click the date and time, and the time which has data, is colored blue. Click on the blued data to display the data to the screen.



Choice channel

After selecting the date and time, All channels are displayed on screen at first time. If you wanted to search one channel, click the mouse on a channel window you want. The window will be outlined red box. All controls will work only within the selected channel.

Play operation

The slide bar of play panel corresponds to one hour. (the selected time)



First End	It displays the first image of selected time.
1 Frame Backward	Backward retrieval per a 1 frame unit
Backward	Backward retrieval. The image recorded by MPEG4 is skipping the image of key frame unit to next key frame. Fast backward is same.
Fast Backward	Fast backward retrieval.
Stop	Stop to play image
Fast Forward	Fast forward retrieval. The speed is a selected what times speed you selected.
Forward	Normal speed retrieval
1 Frame Forward	Forward retrieval per a 1 frame unit.
Last End	It displays the last image of selected time.

Full screen display

Double click the channel that you want to display, a full screen will display.

Screen division

iNetDVR 's retrieval program supports 1, 4, 9, 16 division screen.

Press division button that you want, and display that screen.

Change property of a selected channel

Each button is enabled when a channel is selected.

if you want to change each property of the channel, move the slide bar to **+** or **-** **.**

Also left/right arrow key is able to move slider bar.

If you toggled each button, the property is reset.

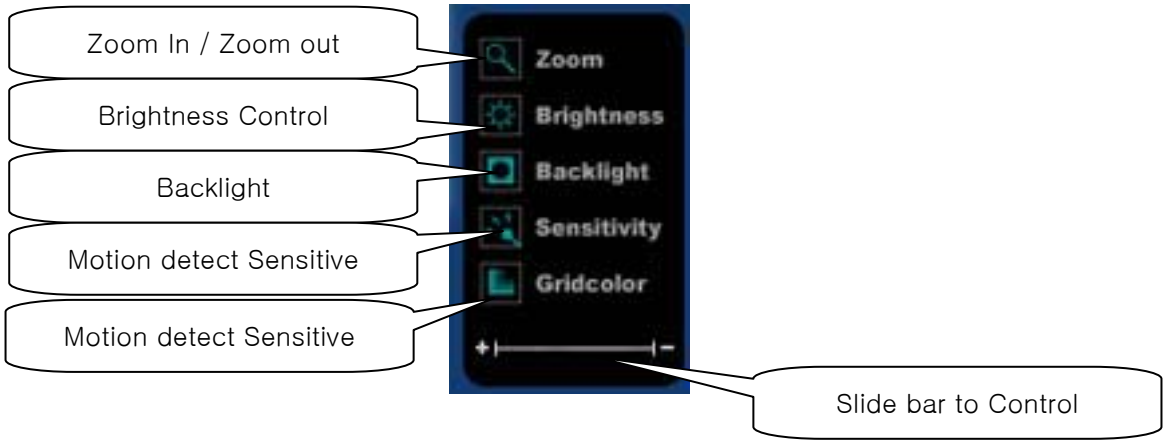
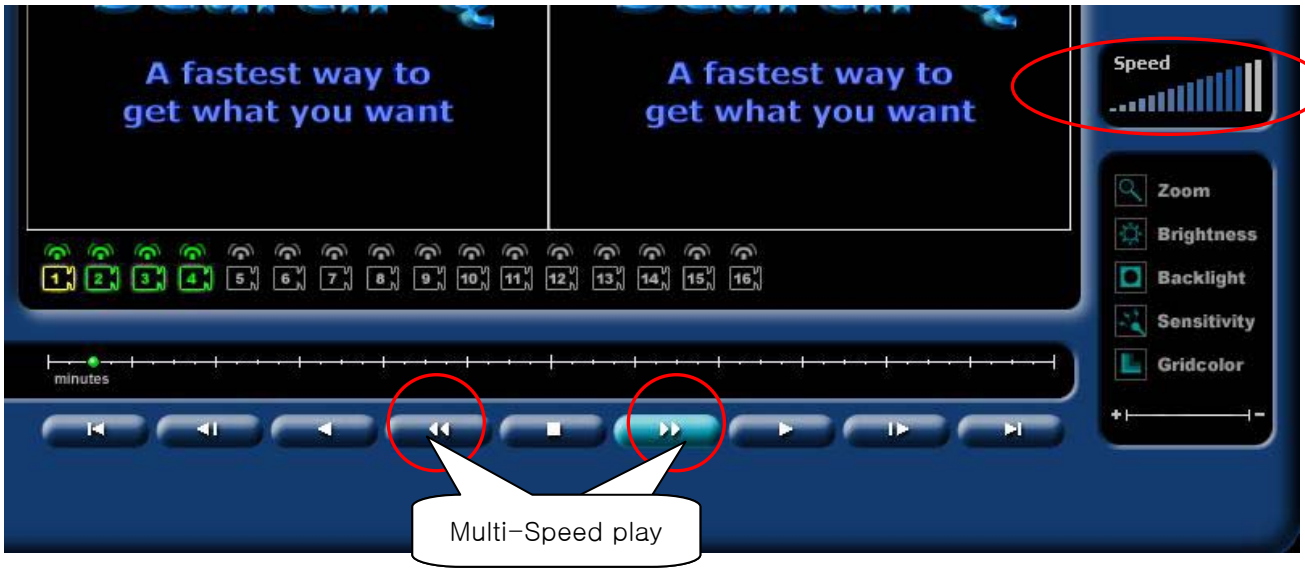
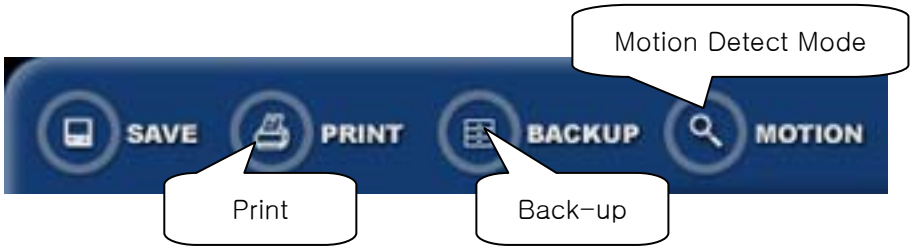


Image Zoom in / Zoom out	If you move slide bar to +/-, Image on selected channel is enlarged.
Control the brightness of Image	The Brightness of image is selected, is controlled by moving sliding bar
Control Backlight of Image	The backlight is adjusted on Image
Control Sensitivity of Motion Detection	sensitivity of motion detection increases or decreases the Image
Motion detect Sensitive	Motion detection Grid Color is changed

Multi Speed play



If you want to watch recorded data on Fast Forward/Fast backward, or watch the Data flame by flame, Set the display speed to what do you want(1x speed play is default.) and then clicked Fast Forward or Fast Backward button.



Each Button is enabled when a channel is selected.

Save

To save an image, press “SAVE” button.

The selected channel will be saved as a file format of **“camera#_data_time.JPG”.**

Print

Press this button to preview the image. Press Print again to print the image.

Motion detect retrieval Mode

To retrieve data that has been recorded during motion detection of a defined area of the screen, hold down the control key and right click on the mouse and drag the area you want to review view.

To cancel this function hold down the shift key while right clicking on the mouse key.

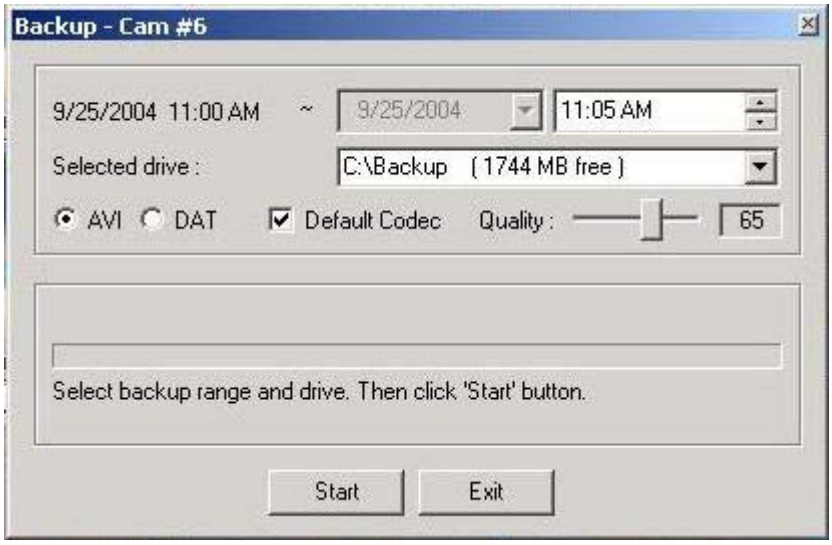
Change the color of motion detection area

As the color of motion detection area is difficult to distinguish against the background color in the image, you can change the color of the detection area. To activated the color change click on the grid color button and adjust the slide bar to change the color.

Change the sensitivity of motion detection

To activated the sensitivity of motion detection click on the sensitivity button and adjust the slide bar to change the sensitivity.

Back up



1. AVI Back UP

iNetDVR support the file format of AVI for Multimedia use with Windows OS.

- The starting and ending time of the data back up should not exceed 600MB.
- Select the drive that you want. If you want to back up in CD, you should have the software such as “Direct CD”, and select the “CD” drive to back up.
- And select CODEC, the basic CODEC is MPEG4. If you do not select **“Default Codec”** in check box, a list of installed CODEC will be displayed, select the CODEC that you want.
- Click the **“Backup”** button, start it.

2. DAT Back up

DAT Back up is a method that back up the raw data of iNetDVR ,.

To invoke the feature;

- Check **“DAT”** in Check Box.
- Key in the start time and the end time.

- Select the drive letter that you want to back up.
- Click the **"Backup"** button, and start.

3. Playback of DAT' data

- Press the "**Backup View"** button.
- The function key controls are the same as retrieval program.

Retrieval Event List

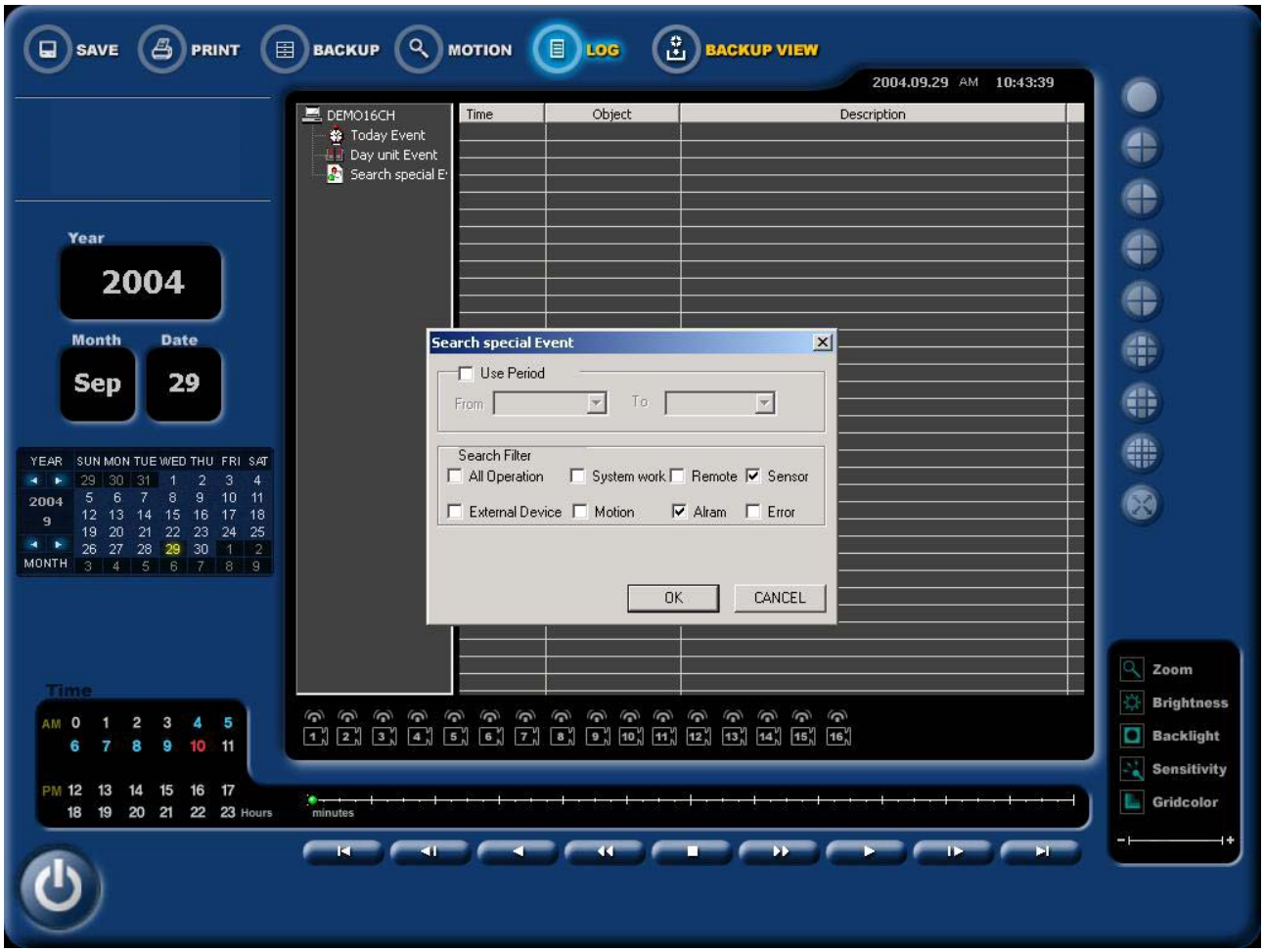
This function includes the running time and end time of DVR system, the controlled contents for running time and the event of sensor in action.

If you want to return another function from **"Event List"**, click again the *iNetDVR* button (Toggle Button). When you want to display the image, double click the event that you want, and then come out the retrieval screen, display the image that event occurred. (If the image at that time is not recorded, no change the screen.)

"Today Event": Display today event on Event List

"Day Unit Event": If you clicked on "Day unit Event", date list is shown on left side. And then clicked which day you want to search, event list is shown on right side.

"Search Special Event": This function is that you want to see the event in particular. You can see by **"Set up period"**, **"Search filter".**



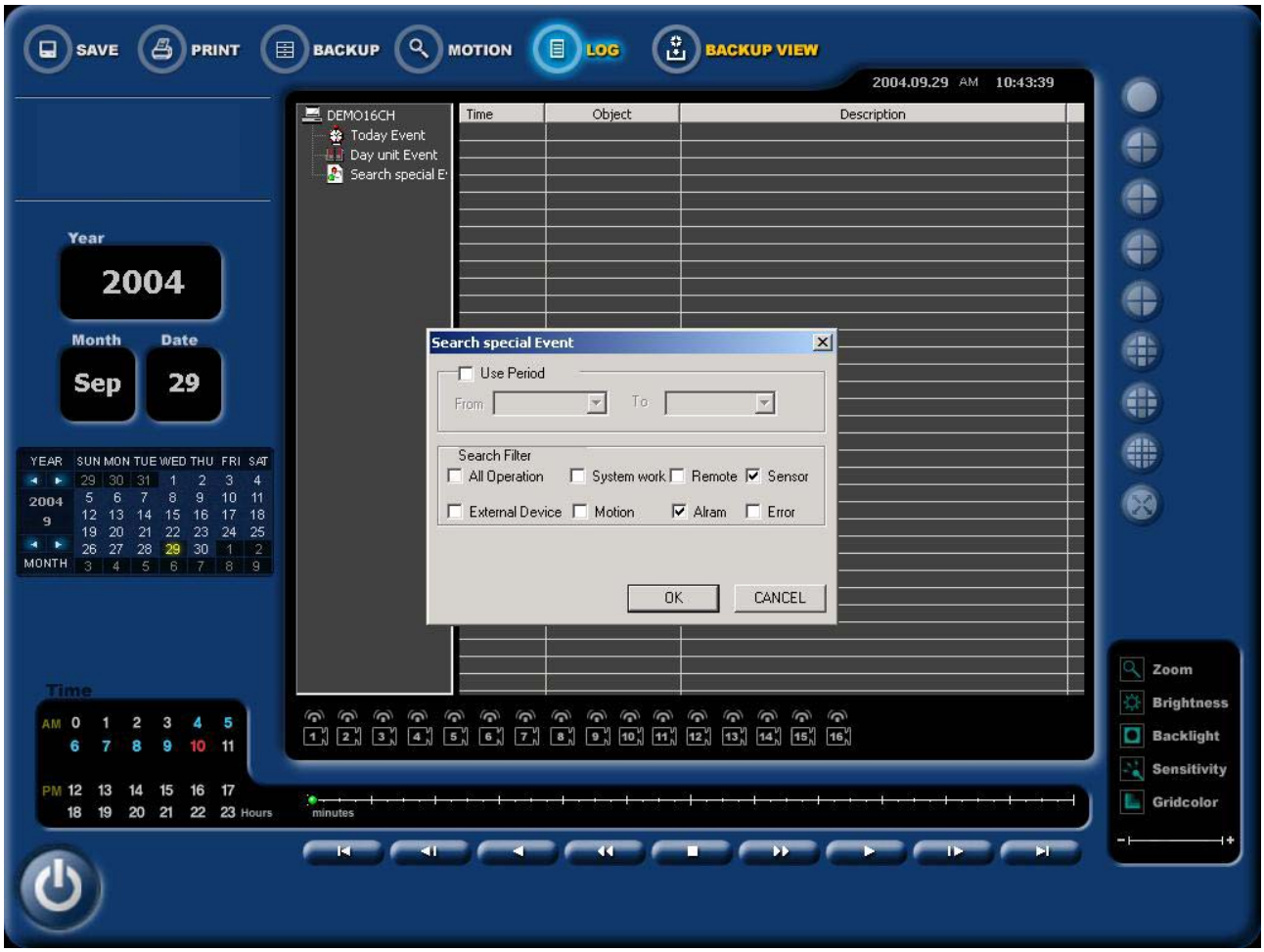
Keyword Search [Option: when It used External device]

If *iNetDVR* is connected with, and communicated with some External Devices(like POS, ATM etc…), all data which is analysis, is able to be recorded.

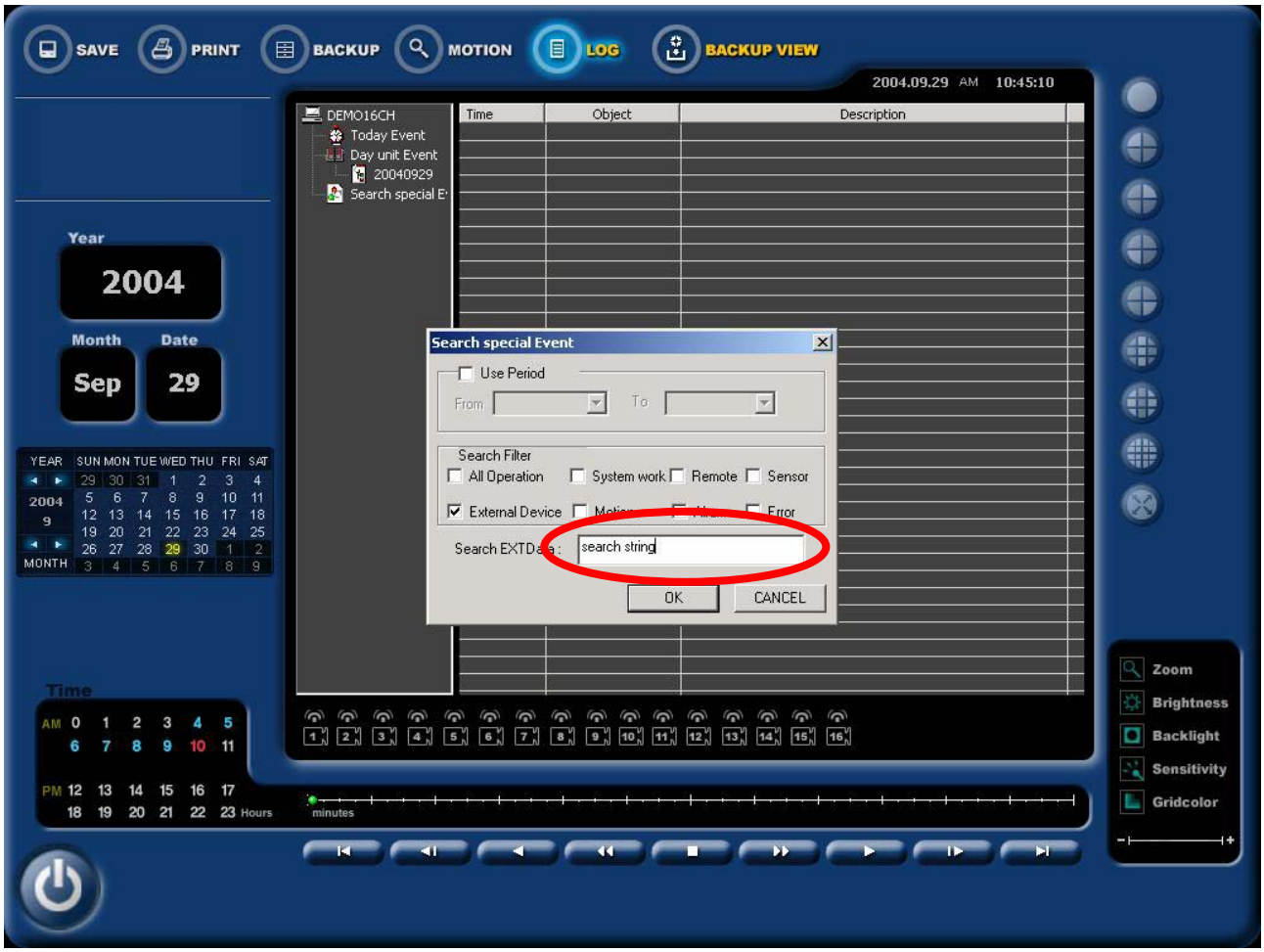
In this case, so many data was recorded, it is hard to find some specific data on List.

Keyword search gets data with more detail condition easily.

Click “Search Special Event”

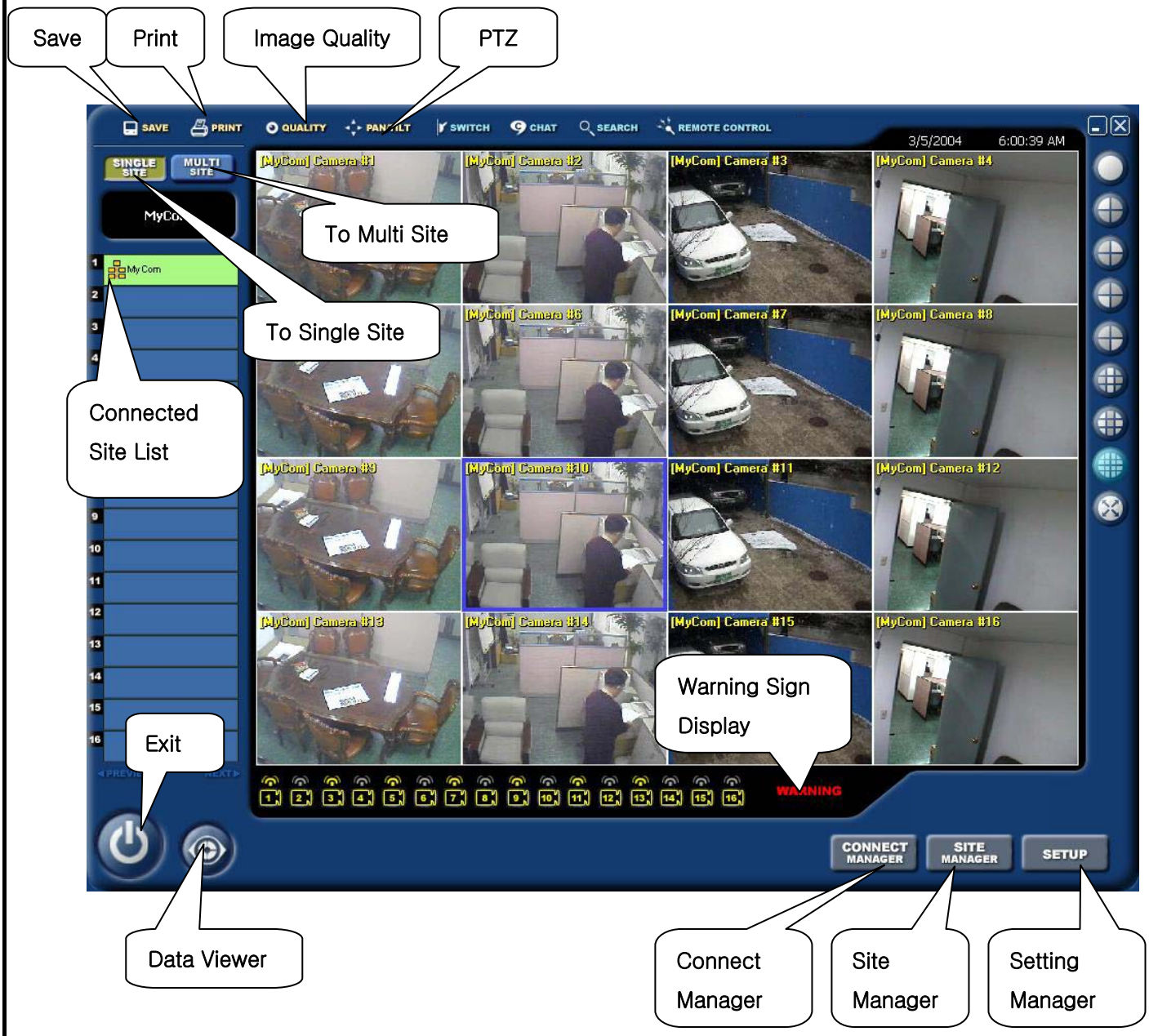


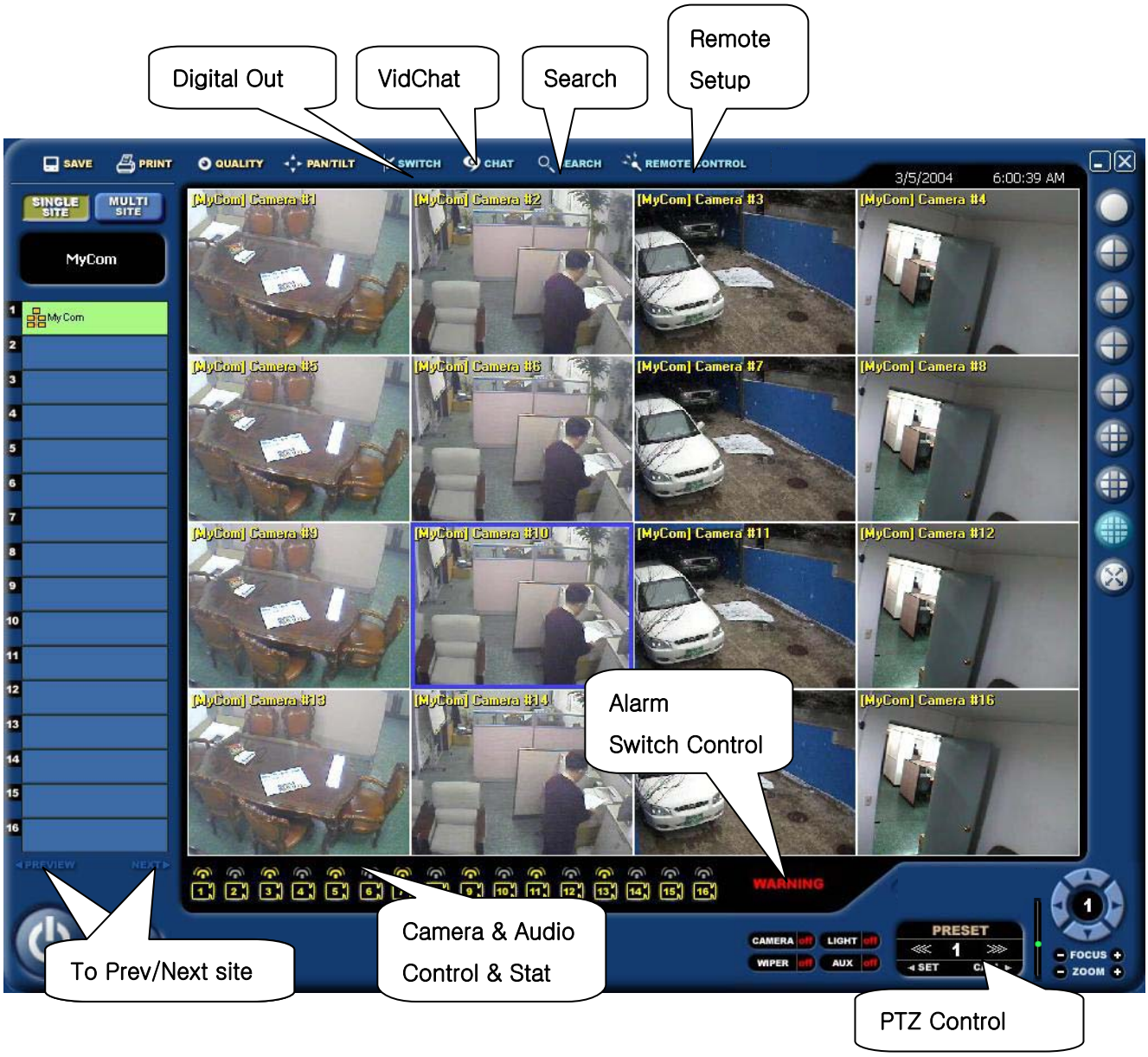
Select external device and put a keyword what you want to find in recorded data list, *iNetDVR* will make a list that has matched item.



Remote Viewer

Screen Overview



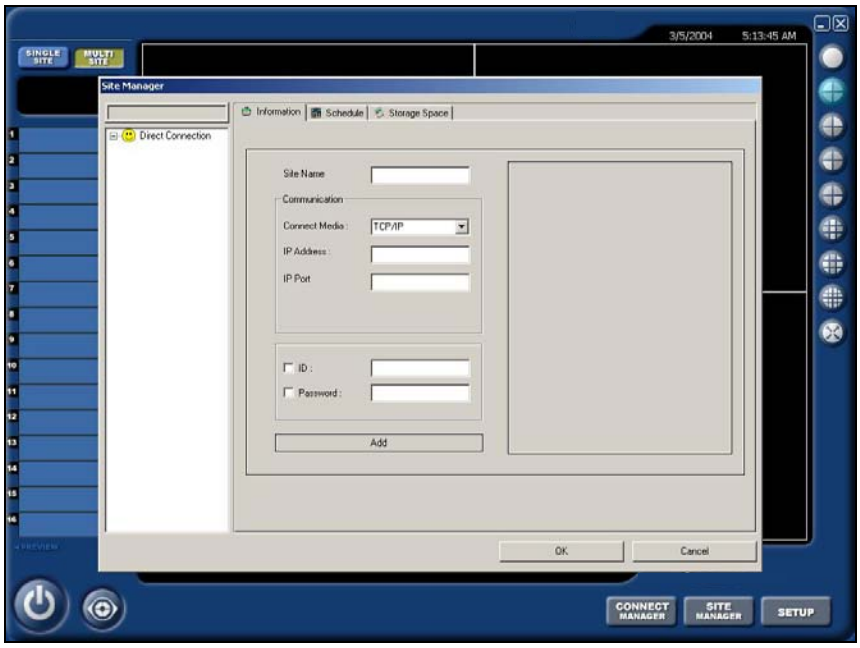

Digital Out
VidChat
Search
Remote Setup
SAVE
PRINT
QUALITY
PAN/TILT
SWITCH
CHAT
REMOTE CONTROL
3/5/2004
6:00:39 AM
SINGLE SITE
MULTI SITE
MyCom
[MyCom] Camera #1
[MyCom] Camera #2
[MyCom] Camera #3
[MyCom] Camera #4
[MyCom] Camera #5
[MyCom] Camera #6
[MyCom] Camera #7
[MyCom] Camera #8
[MyCom] Camera #9
[MyCom] Camera #10
[MyCom] Camera #11
[MyCom] Camera #12
[MyCom] Camera #13
[MyCom] Camera #14
[MyCom] Camera #16
Alarm
Switch Control
WARNING
PRESET
CAMERA
LIGHT
WIPER
AUX
FOCUS
ZOOM
To Prev/Next site
Camera & Audio
Control & Stat
PTZ Control

Registration Site information

To see DVR's image of remote site in Client program, you must register the site information.

- Press the **"Site Manager"** button.
- The pop-up window **"Site Manager"** will appear.
- Choose a site name then enter the name into site manager.
- Select the connect media.
- In case TCP/IP: Key in the IP address and IP port (Default 911) number.
- In case Leased Line: Key in communication port and Baud rate.
- In case PSTN: Tel NO, Communication port, Modem speed.
- In case Web Server: When *iNetDVR* 's recorder has Dynamic IP, client is connected by getting information from Web Server about registered recorder. Because Dynamic IP is changed frequently, Client couldn't connect with Recorder directly. If *iNetDVR* checked the **"Web Registration"** on Recorder's Setup, *iNetDVR* will send a changed IP to Web Sever when *iNetDVR* had changed IP. The Client would now be connected with changed *iNetDVR* IP by setting of communication to Web Server.
- Key in "ID" and "Password".(Registered in "User Add" of **setup** program.)

If you want to key in the ID and Password whenever you use as security, cancel to check in check box, and do not need to key in the ID and Password. But, In case connection method is "Web Server", mean not ID, Password in DVR recorder but ID and Password as same as Web Server (www.*iNetDVR* .com).



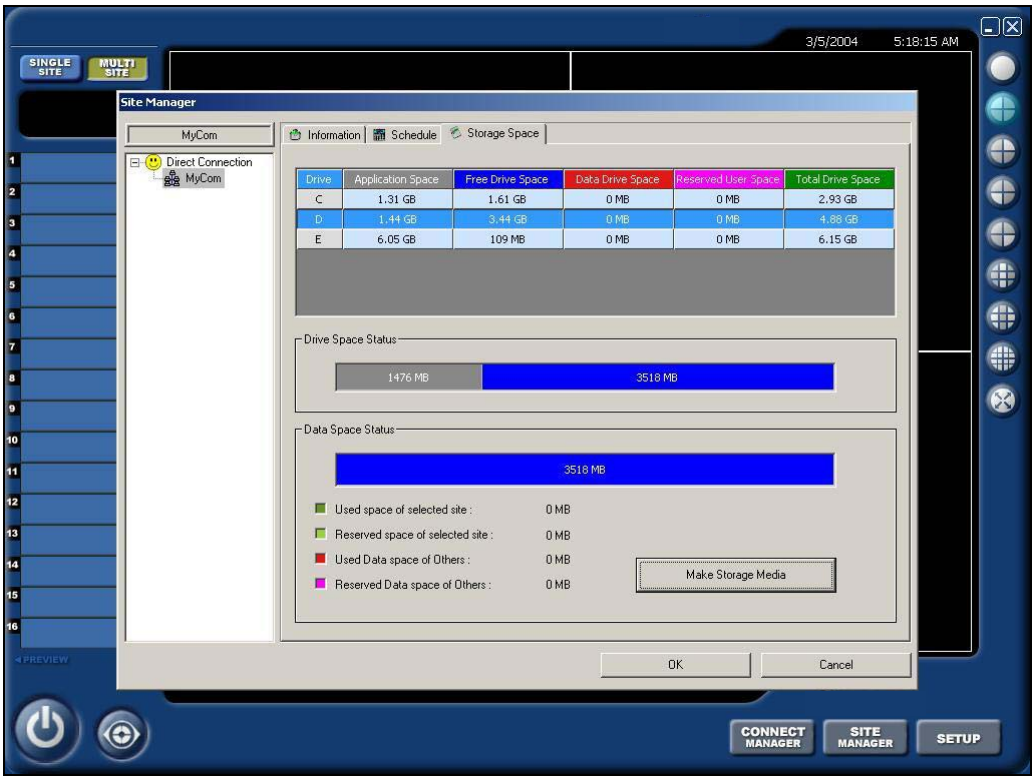
Storage Space Info

Client's Recording data has different System to Recorder, so each Site needs own storage Space. Also each DVR server needs their own storage space, and a hard disk driver is possible to get a server's storage space.

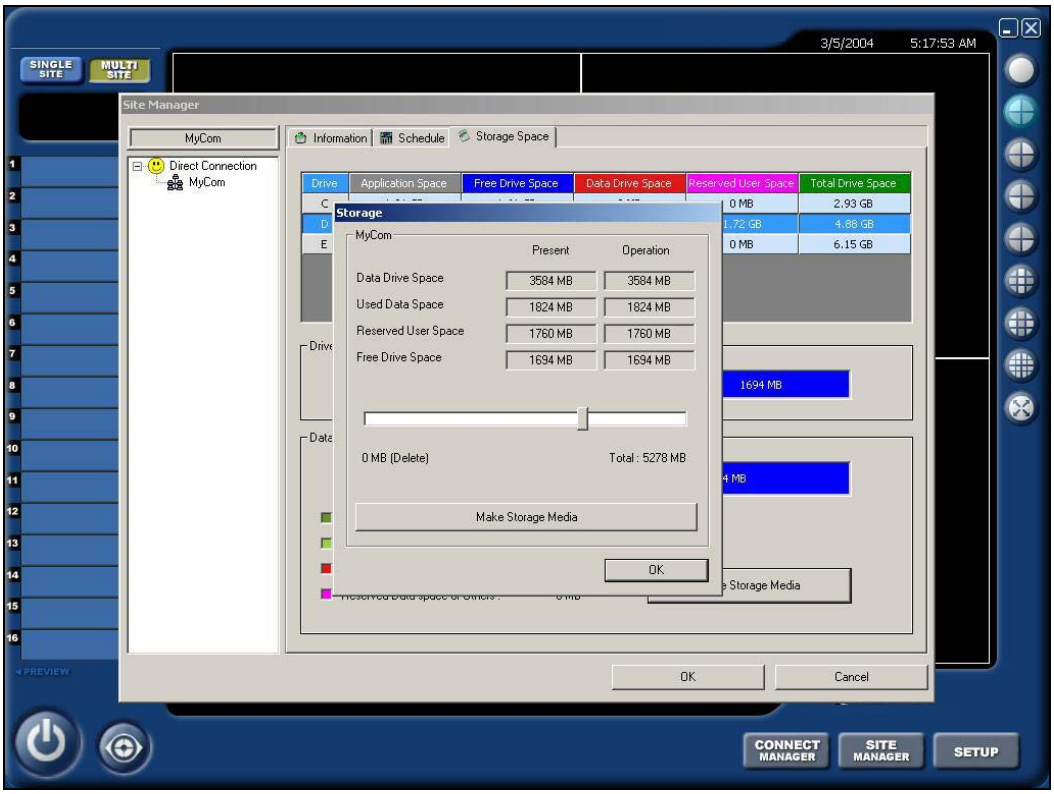
For example, if your computer has five hard disks driver, your computer is able to record data from five DVR Severs maximally.
Recording Data from A DVR server needs a hard disk driver for storage space.

If you selected "**storage space**" tab in "**Site manager**", this picture shows up.
It's about Storage Space information of Client computer.

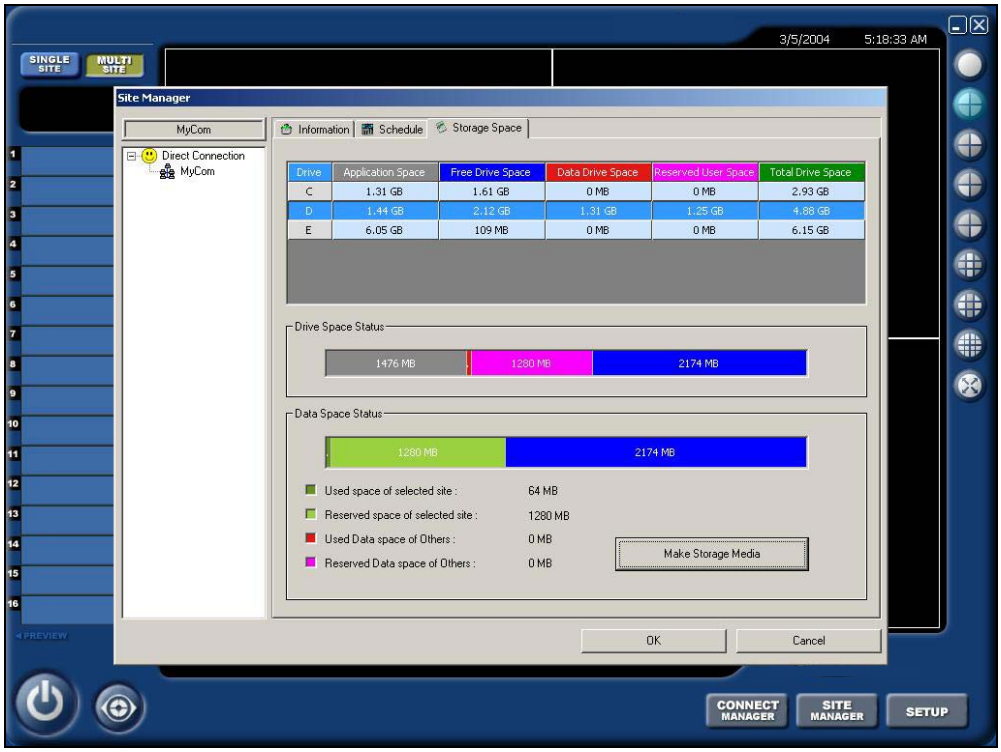
1. Select a DVR server as like below picture.
2. When you selected a sever, hard disk driver's information is displayed
3. select a hard disk driver, and click "**Make Storage Media**"



4. A window is popped up, and set storage space for recording by slide bar. and click "**Make Storage Media**"



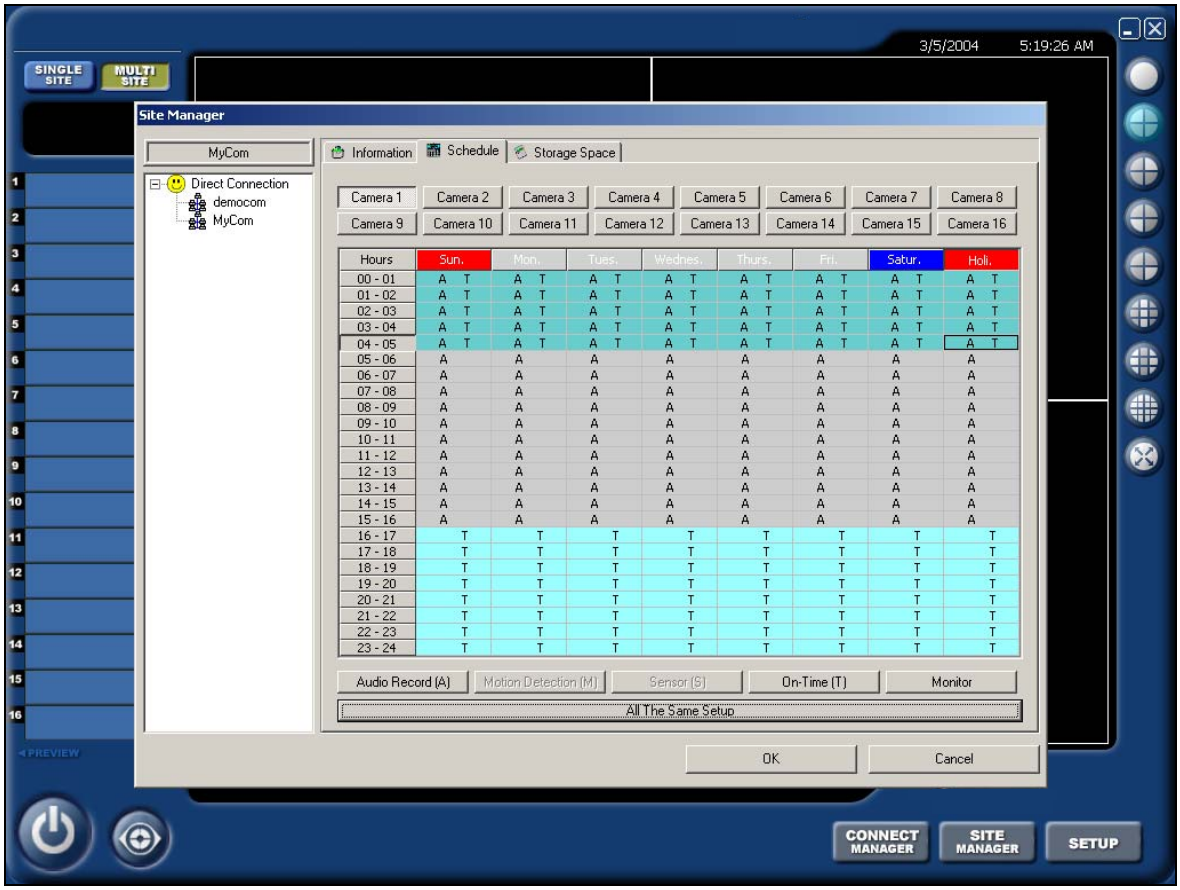
5. Made storage space is displayed with Green as like that. and go to "**schedule**" tab in "**Site Manager**"



Remote Recording Schedule

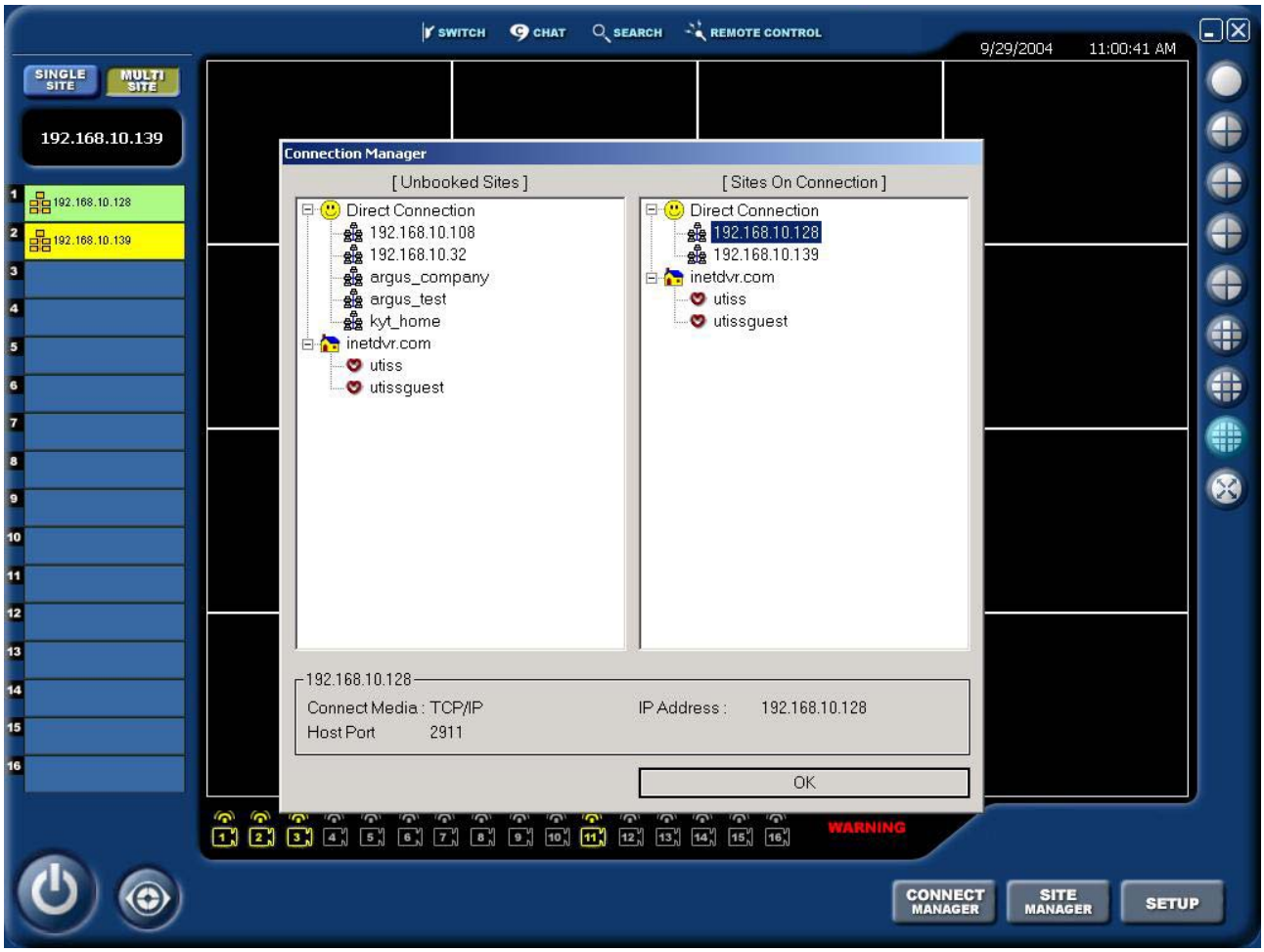
When Client is enabled you can save recording data from (audio and, or video) based on your predetermined schedule setting.

If your client computer has storage space available, it will be able to record data based on the set schedule.



Connect Site

The registered sites come out at “Unbooked Sites”, double click the site that you want to connect, and if it’s connected with the site, come out the site name at “Sites on connection”. And press “OK” button, disappear the pop-up window, come out the connected sites at upper right side.

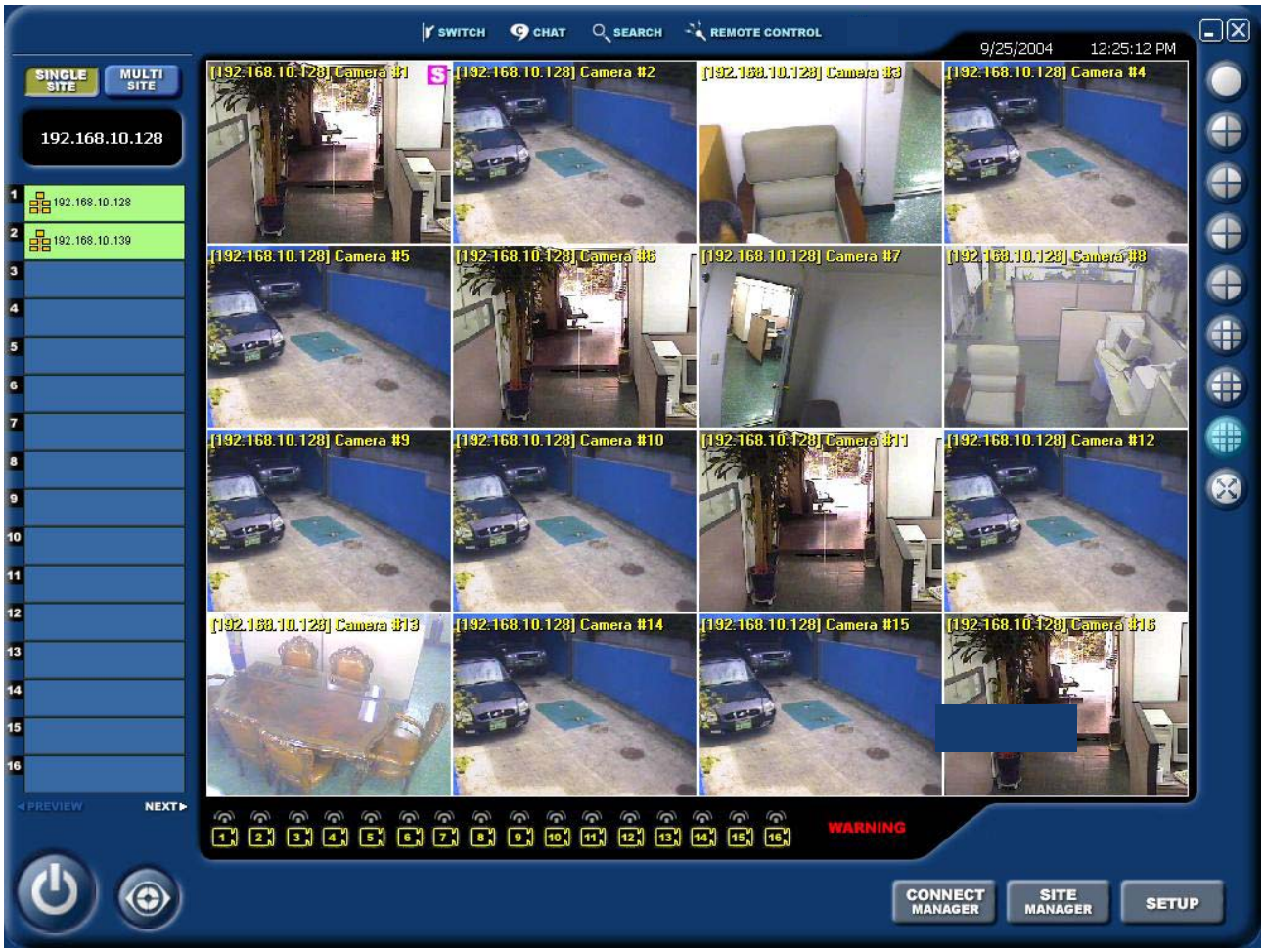


Monitoring Live image

The Monitoring Live image feature supports two types. One is the monitoring of a live image of selected cameras at all sites, the other is the monitoring of a live image of all cameras at a particular site.

Monitoring the selected cameras at all sites : After connecting to a site, a list of cameras connected will displayed. Click camera button that you want to display the live image. If you wanted to see cameras at another site, click the “**Prev**” button below or select another site And follow the same instructions. If you wanted to get the audio data, click the “audio” button corresponding to camera.

Monitoring all cameras at a single site: Click the “Single Site” button, display the images of Cameras connected. When you want to see the other site, press the arrow key below.



The logging files of connection status

Push the F9 Key, display the status of connection.

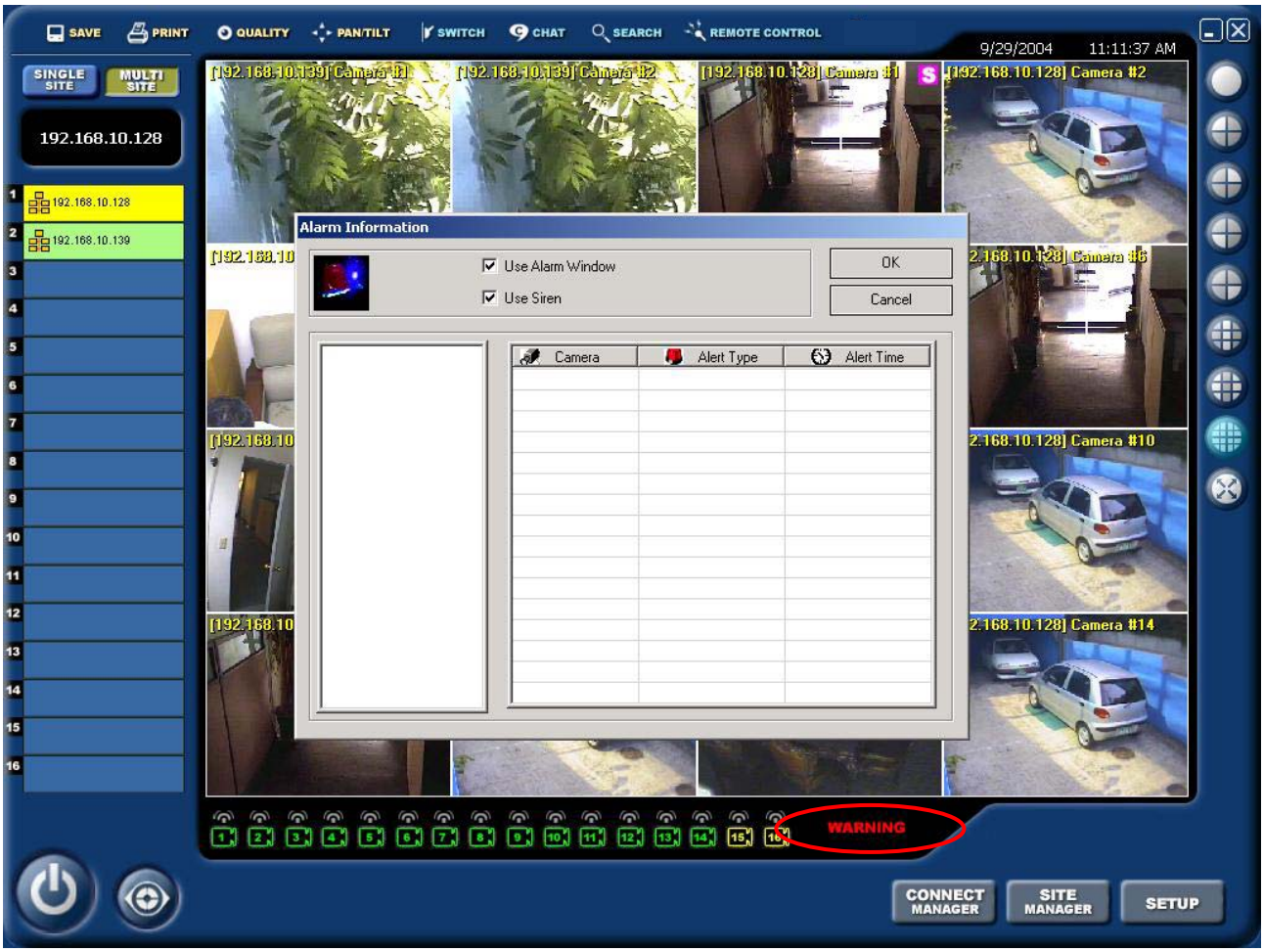


Alarm Information

Set up the alarm mode: if you clicked “Warning”, window about “Alarm Information” is popped up.

On this window, if you check the Check-box “use Alarm window”, ”Alarm Information “is popped up when Client got Alarm event from *iNetDVR* . And this window display information as like “Site Name”, “camera channel”, “Alarm Type”, “Time”

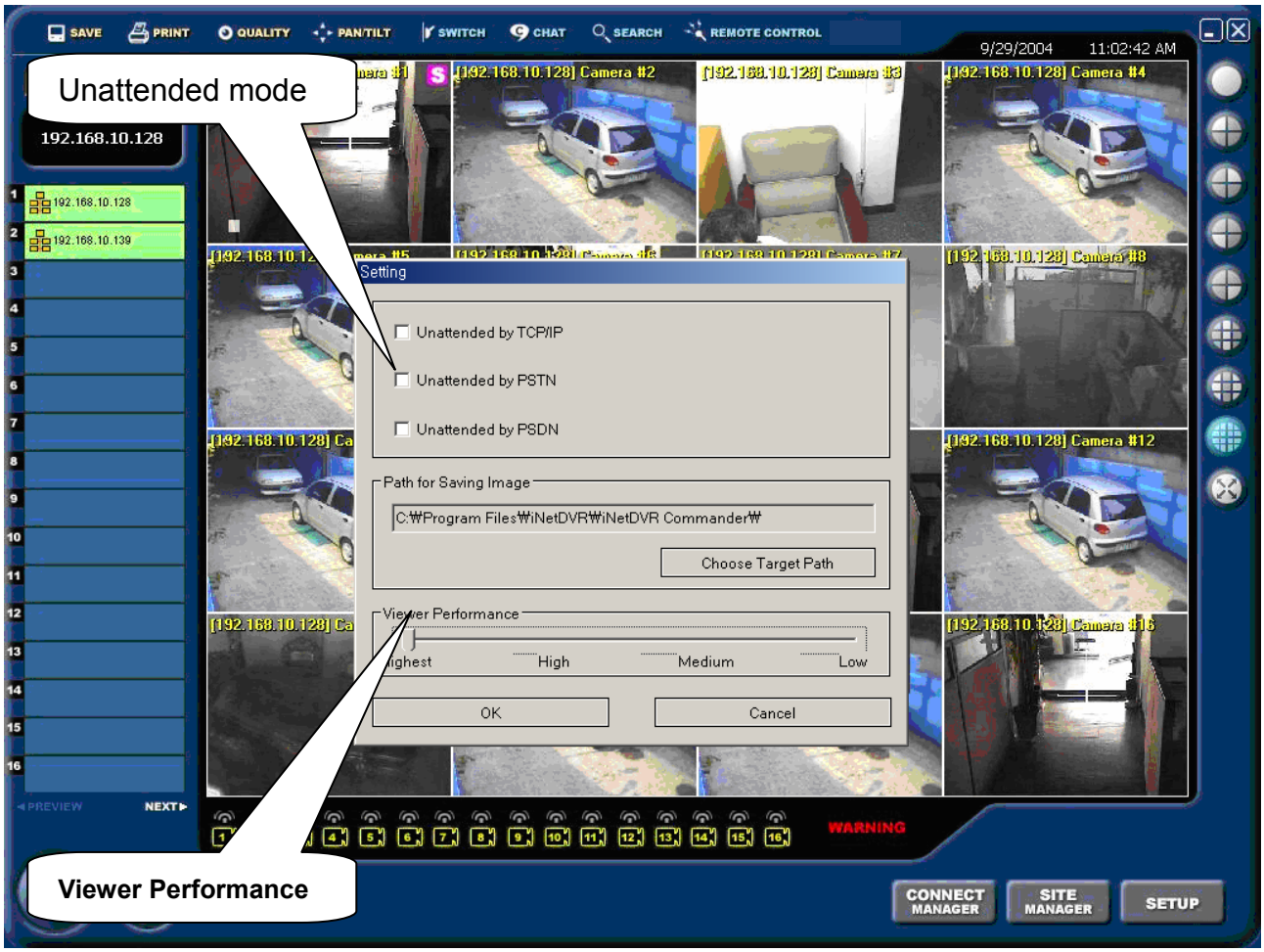
On Multi size, when Client got Alarm event from recorder, Warning button is twinkle.
If you clicked Warning Button, Window that has Alarm Event information, pop up
On Single Site, according to Warning signal, Warning button is turned on.
After Warning Occurred at Recorder and Remote viewer get warning signal, you could turn off the warning at Recorder from Client, if you have ID that has authority of setup.



Setting Manager

"Setting Manager", is used for unattended mode settings for all communications.

-Unattended mode: if Alarm occurred from registered Site, Site is connected automatically by unattended mode for warning signal.



Viewer Performance

This is for not only controlling communication speed, but also controlling CPU usage.
"Highest" is default value and it means basic communication
if you set viewer performance to lower state, Viewer's CPU usage is getting low.

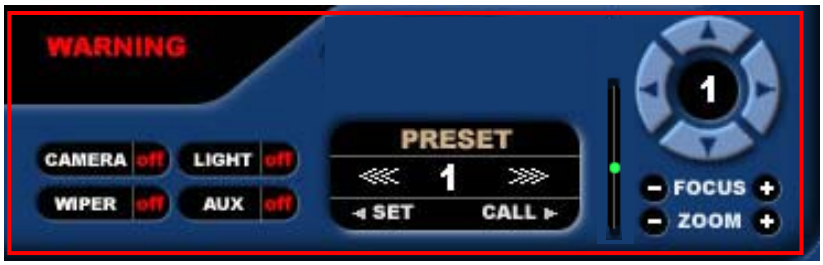
Selecting the channel and the layout of channel

If you select a channel which has an image, functional buttons (control PTZ, Recording, Print, canceling the image's transmit, control the image quality) are enable to work.



Control PTZ (Pan Tilt Zoom)

The PTZ control function is activated only for authorized users. This function is activated for authorized ID users only.



Setting up the image quality to be transmitted

You can set up the image quality.

Transmitted Image count per second is changed by setting of the image quality.

Cause higher Quality Image is bigger size of Data.

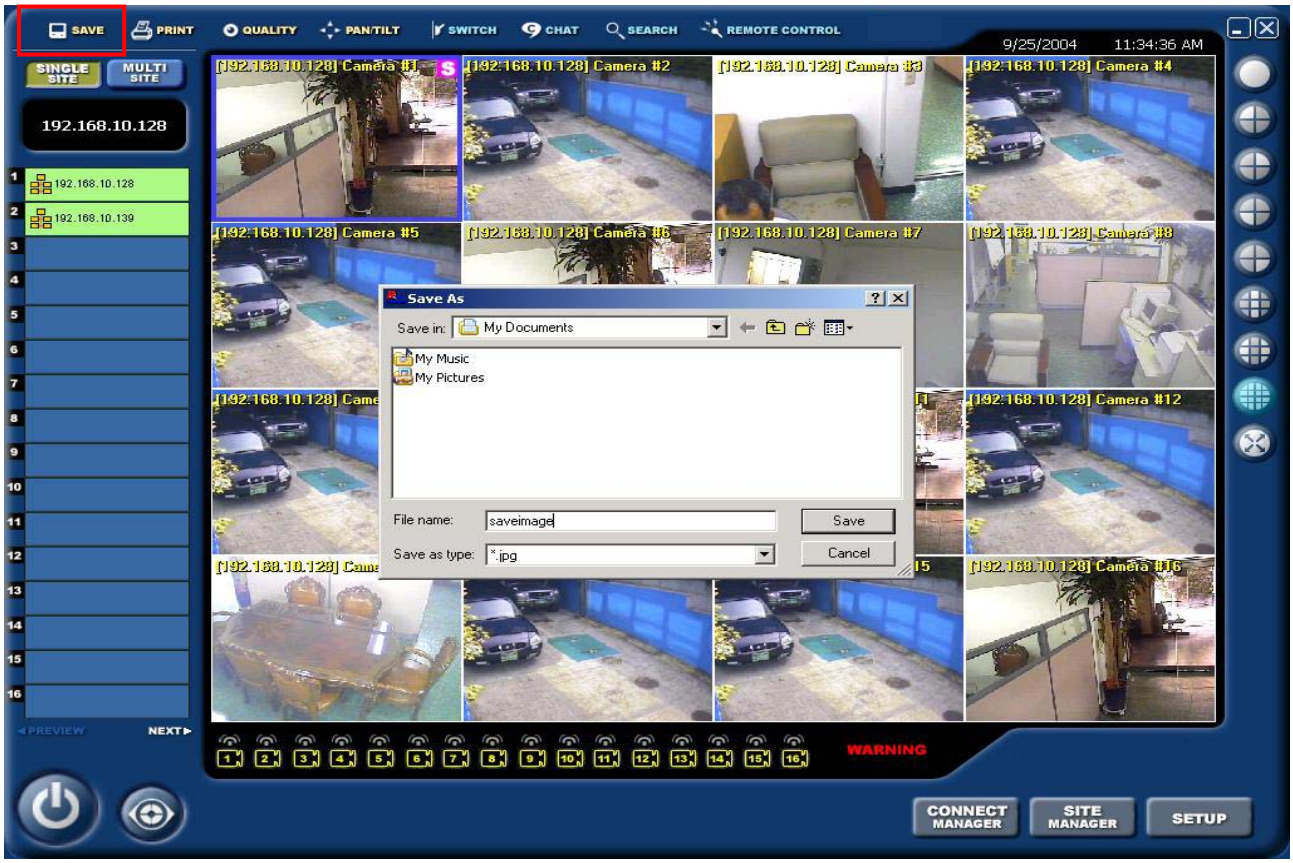


Save the transmitted image

If you wanted to save an image which you selected a channel in a single site, click **"Save"** Button, then you could see the window to save jpg format file.

At Multi site, if you clicked **save** button, the channel is selected, is recording by avi file format to the path where you selected on **Setting manager windows**

If the site name or camera name do not supported a language in Client program (For example: Local DVR: Chinese, Client: English), this may cause an identification problem. You may need to change camera name, etc.



Print out the transmitted image

You can print out the transmitted image.



Selection the site and the layout of channel

Clicking “site name ” you want on the connected sites list, it is enable to click **“Camera button, Audio button ,Remote Setup”, “Digital I/O”** and etc. The activation of button is different according to the authority of ID.



Digital-Out Switch

It’s come out when user who has authority about setup.

Control the Digital-out switch on server (DVR).

VidChat

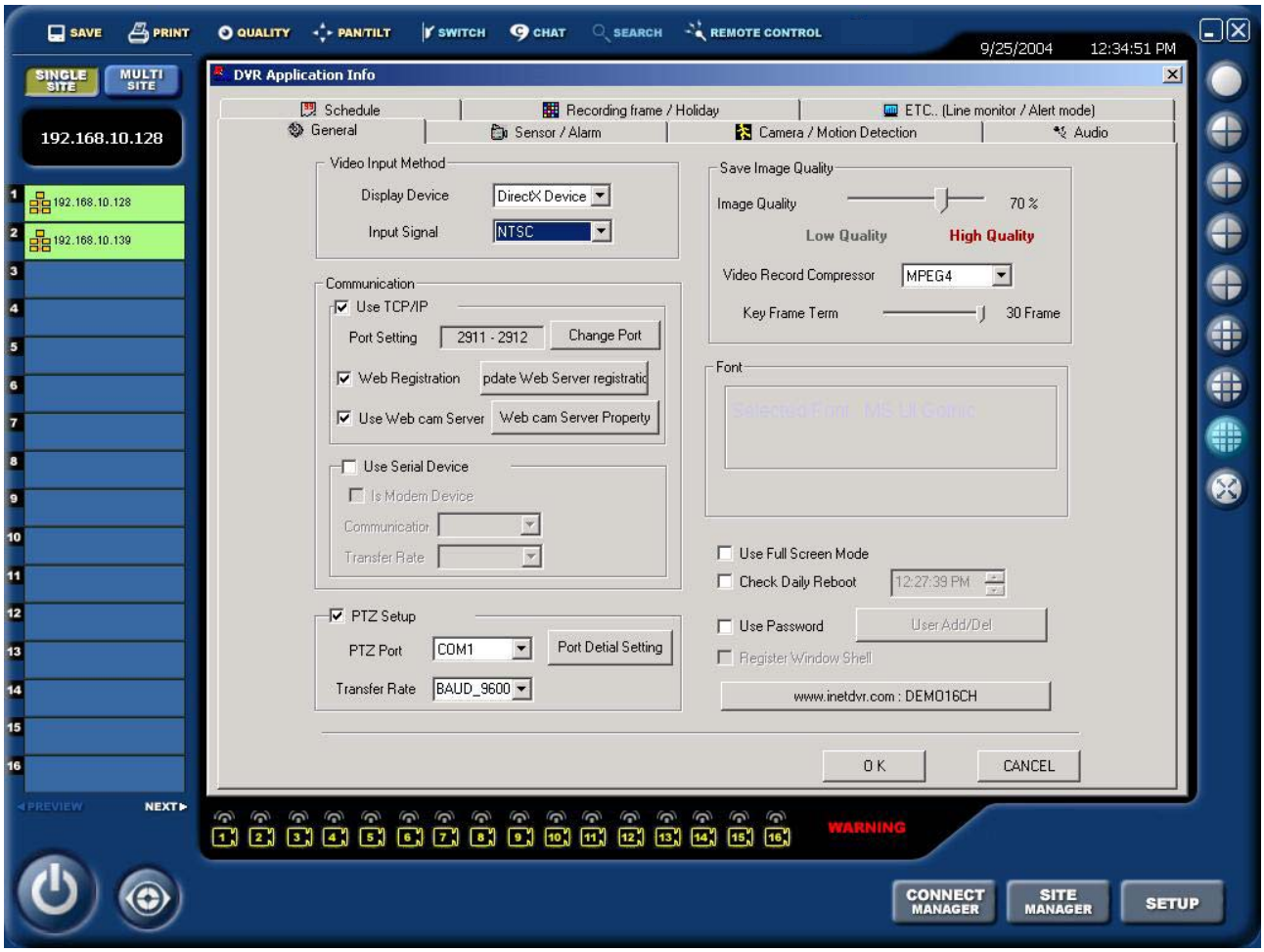
Pressing this button, cone out the icon “Voice Communication” in tray, if connection Is success, the icon is blinking. If connection is failure, come out an error message. It’s based on H232 Protocol, so if you used vidchat under router or firewall, you might ask it to your network manager to use [ref H232 protocol].

Search

As same as Digital out Switch, It's cone out when the User has authority about search. Selecting the channel that you want, come out the date (the color become changes in the calendar that is recorded, and select the date, come out the time interval of that date. Selecting the time, it is activated the slider-bar and the button of retrieval, and can start to retrieval it. It works as same as Search on server (DVR).

Remote Control

You can modify the information of setup in remote site. This operation is as same as DVR's. Press the button "OK", the server (DVR) restart, automatically reconnect.

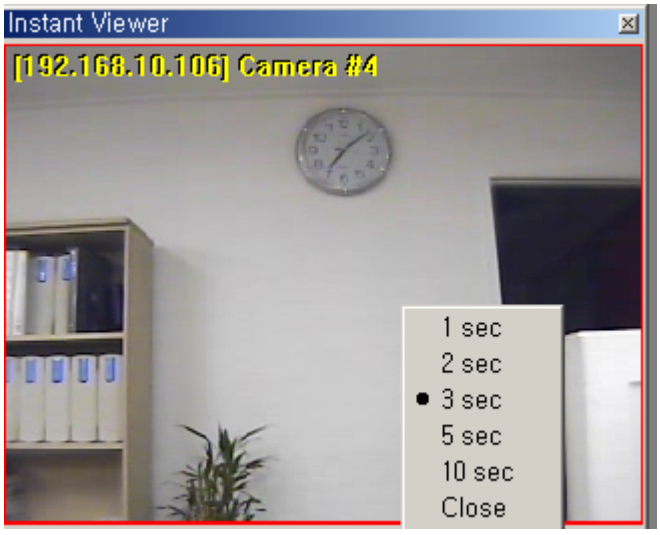


Instant Viewer

If you make Client program minimize and be hidden to tray bar,
You can see this window on middle of your monitor



It's show images which one Client program has on screen.
If the Camera Channel is not shown on screen, the camera image will do not display on **Instant Viewer.**
For example, Client has cameras from 1 to 8, and display 1 to 4 channel.
If you minimize client program, instant viewer will display only 1 to 4 channel camera's image.



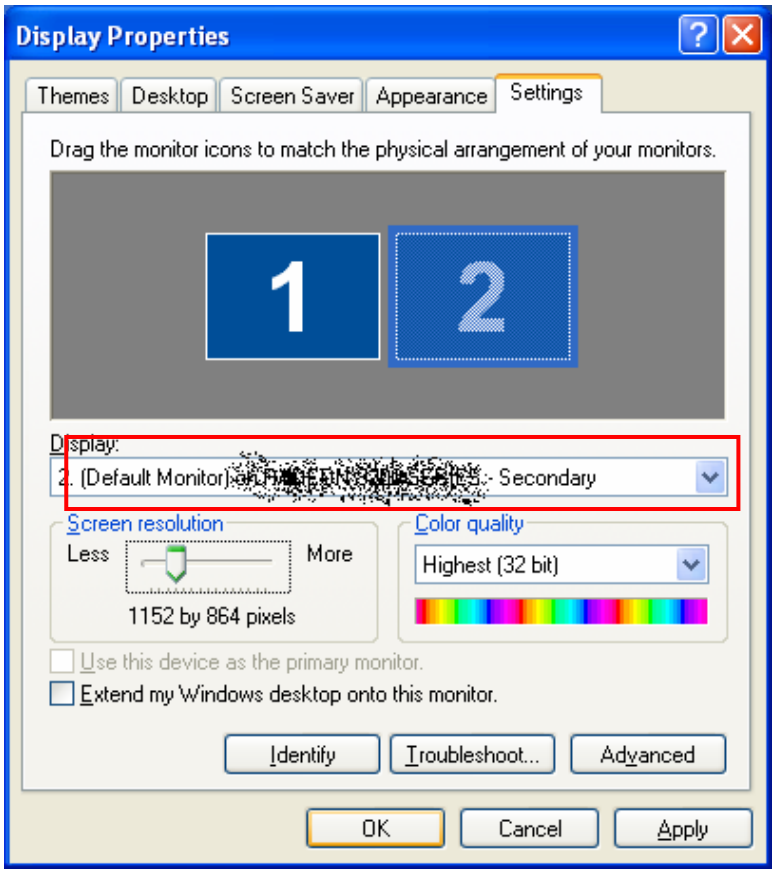
You can set rotate time by mouse right hand click.
If you don't want to see this **Instant Viewer** select **CLOSE**.
But, your client program still running on tray bar.

Dual Monitor

Two client applications is able to run as like picture on a computer, if your VGA graphic card supported dual monitor.



1. If you have VGA card that support dual monitor, setup using dual monitor at Screen's property.



2. Click and run Client Icon on Screen.

3. Click minimized button to hide client.
4. Click and run Client Icon on screen again.
5. Click Client Icon on taskbar for full-screen

The operation is each client program is running in a computer, so you can connect maximum 32 site [16 site *2]] and display 32 channel's image.
each client is not linked with and run separately.

WebAgent

Web Agent Install

This Picture shows up when you insert Install CD

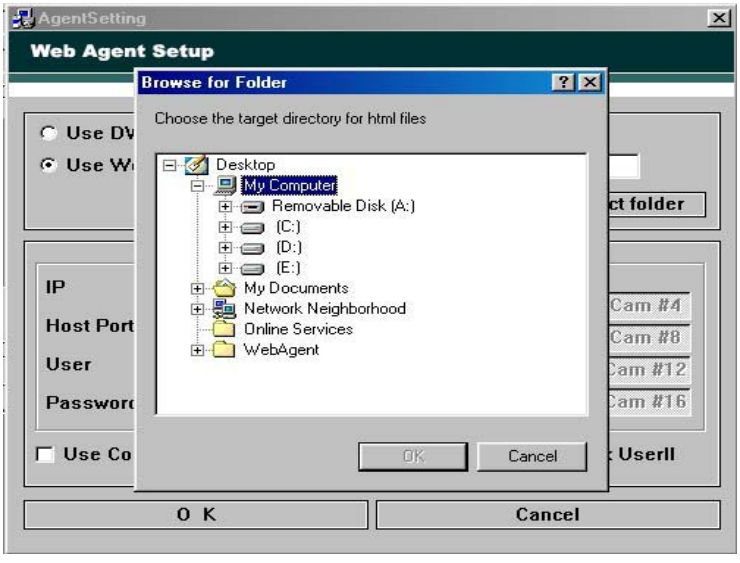
Click "**Install WebAgent**" Button on Screen

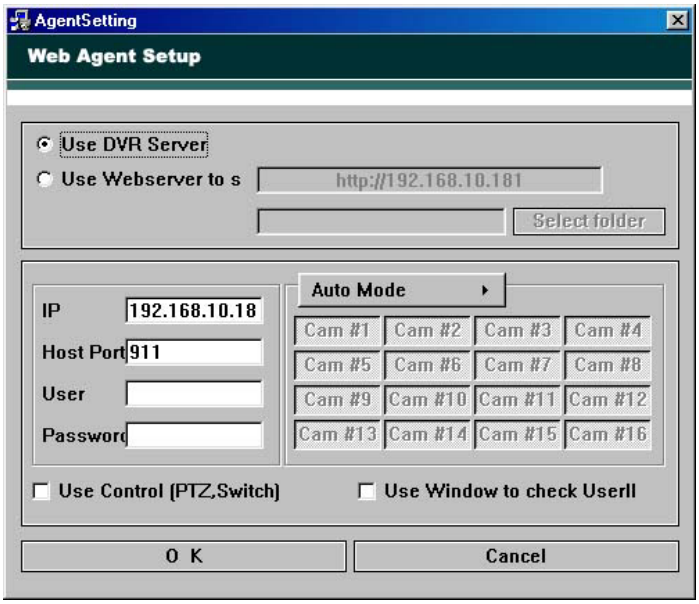


Web Agent Setting

Use DVR Sever: if WebAgent was installed on a computer that had DVR and Set WebCam Server, Check on this button.

USE Webserver to: If WebAgent was installed on a computer that is work server, and user didn't check WebCam server, check this radio button, and you have to select the folder where "index.html" is copied.





Display Mode: Recommended Auto Display mode (Change Display mode automatically by connected Camera count).
If you selected other mode (4, 8, 16 channel), you can choose channel which you want to watch.

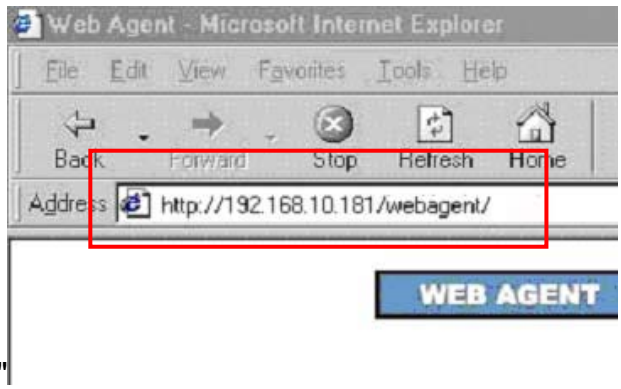
Check **"Use Control"**: Check "check box" for PTZ& Digital-Out Switch on Web
Check **"Use Window to check UserID"**: If you checked this Check-BOX, you have to Login on Web-Agent page.
After all, Click "OK", it makes a file for web service.

How to use Web Agent by client

Run Internet Explorer, write as like

"**WebAgent installed server's IP Address: port/ WebAgent installed folder path/"**

Default: WebAgent

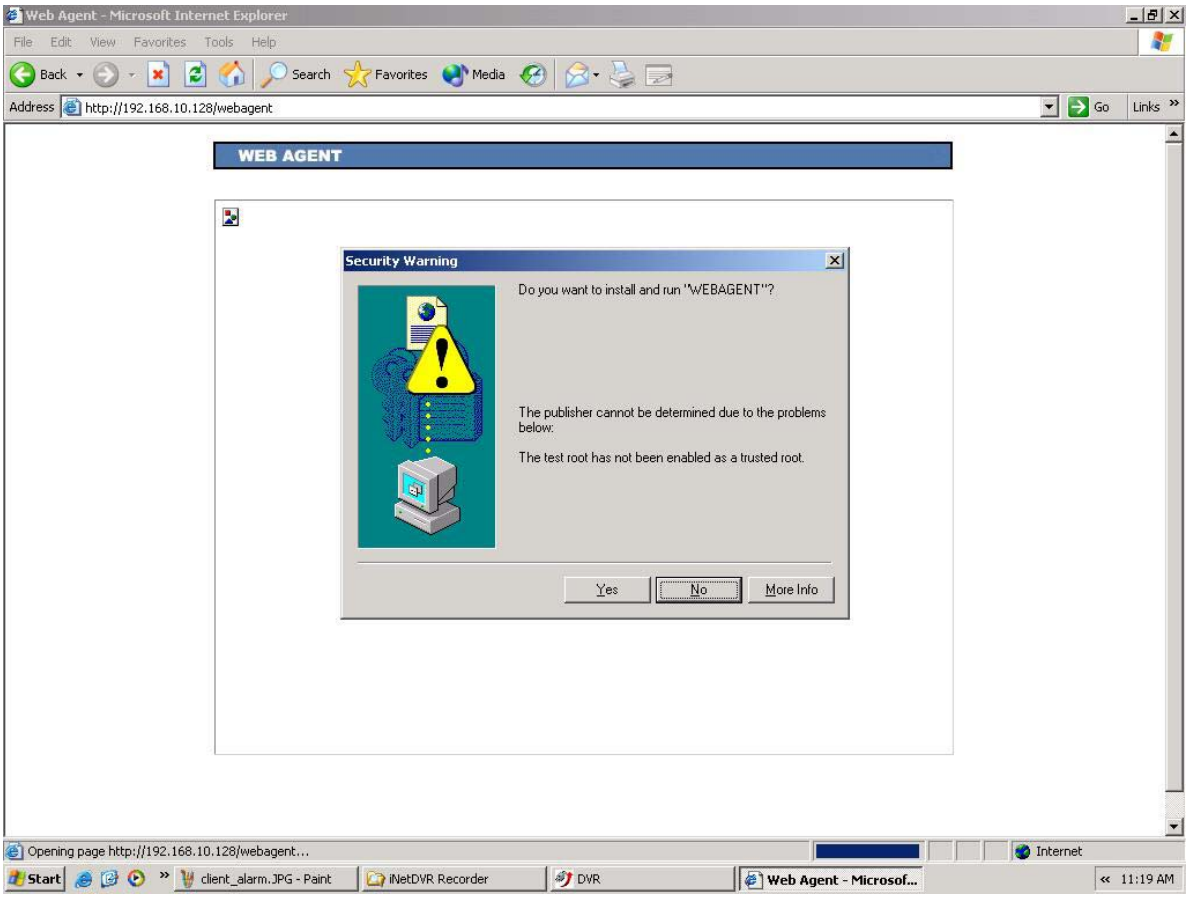


"

If it was connected DVR site, we could see Web Agent on Internet Explorer.

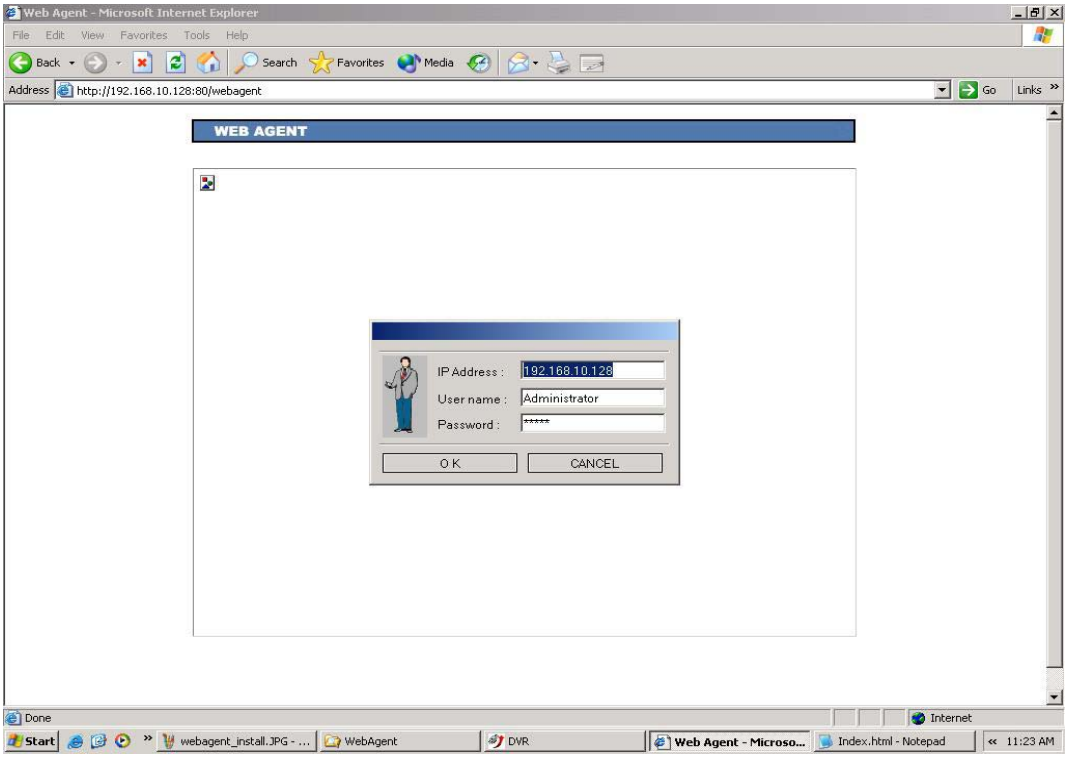
If your computer doesn't have "**Web Agent**",

Window pop up and ask installing "Web Agent" pleases clicks "yes"

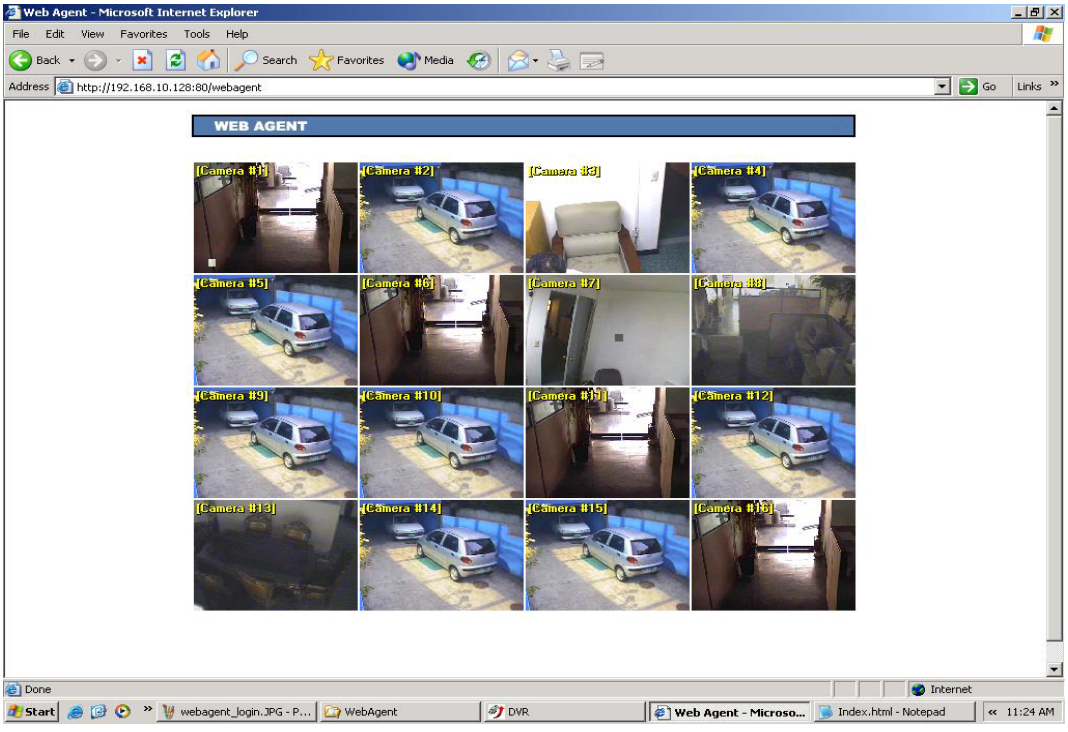


If Install was Success, we could see below picture
(If Agent has Black Screen, Codec is not installed. Install MPEG4 Codec)

If WebAgent was checked **"Use Window to check UserID",** this window shows up for Login.

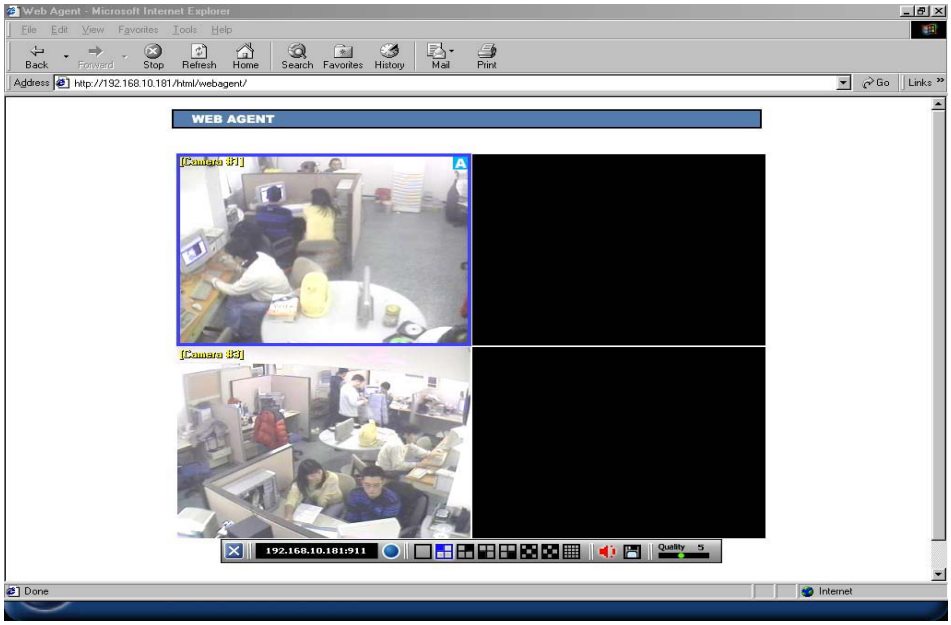


and then you can see connected WebAgent as like this picture

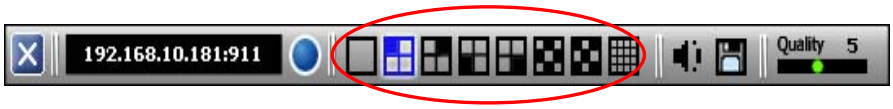


How to use Web Agent

You can see menu when you clicked right mouse button on screen



Display Mode



Screen Display mode is changed what you selected to 1, 4, 9, 16 division mode.

Quality



If you changed Quality, Displayed image size is changed.

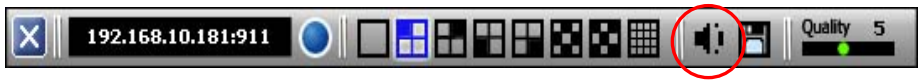
Also when you changed Quality, you have to consider about transmission speed of your system. Cause, if you changed quality to high, transmission of image would be bigger size than low quality image.

Disconnect



If you clicked this button, your web page is disconnected from WebAgent.

Audio

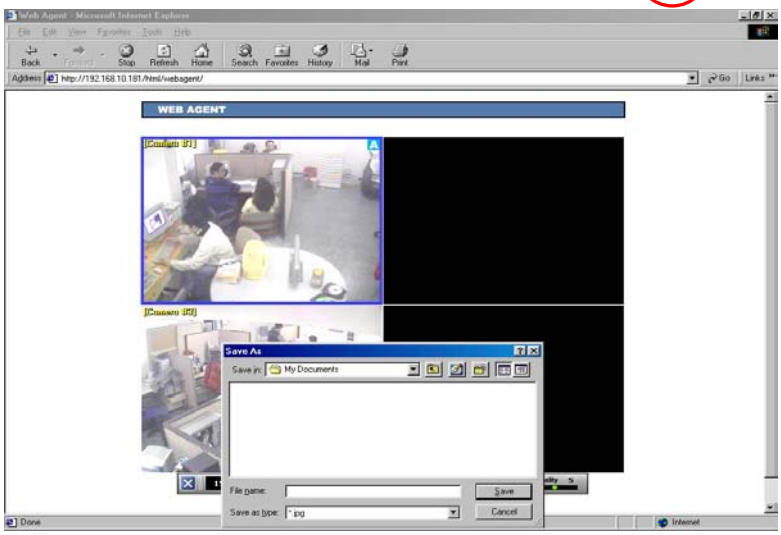


If you clicked this button, on control bar Speaker Icon is changed color to red, and then WebAgent play audio data if the selected channel had audio data. Also transmission speed is considered what your system has.



Save Image





If you clicked this button, you can save an image on selected channel to your computer.

Web service

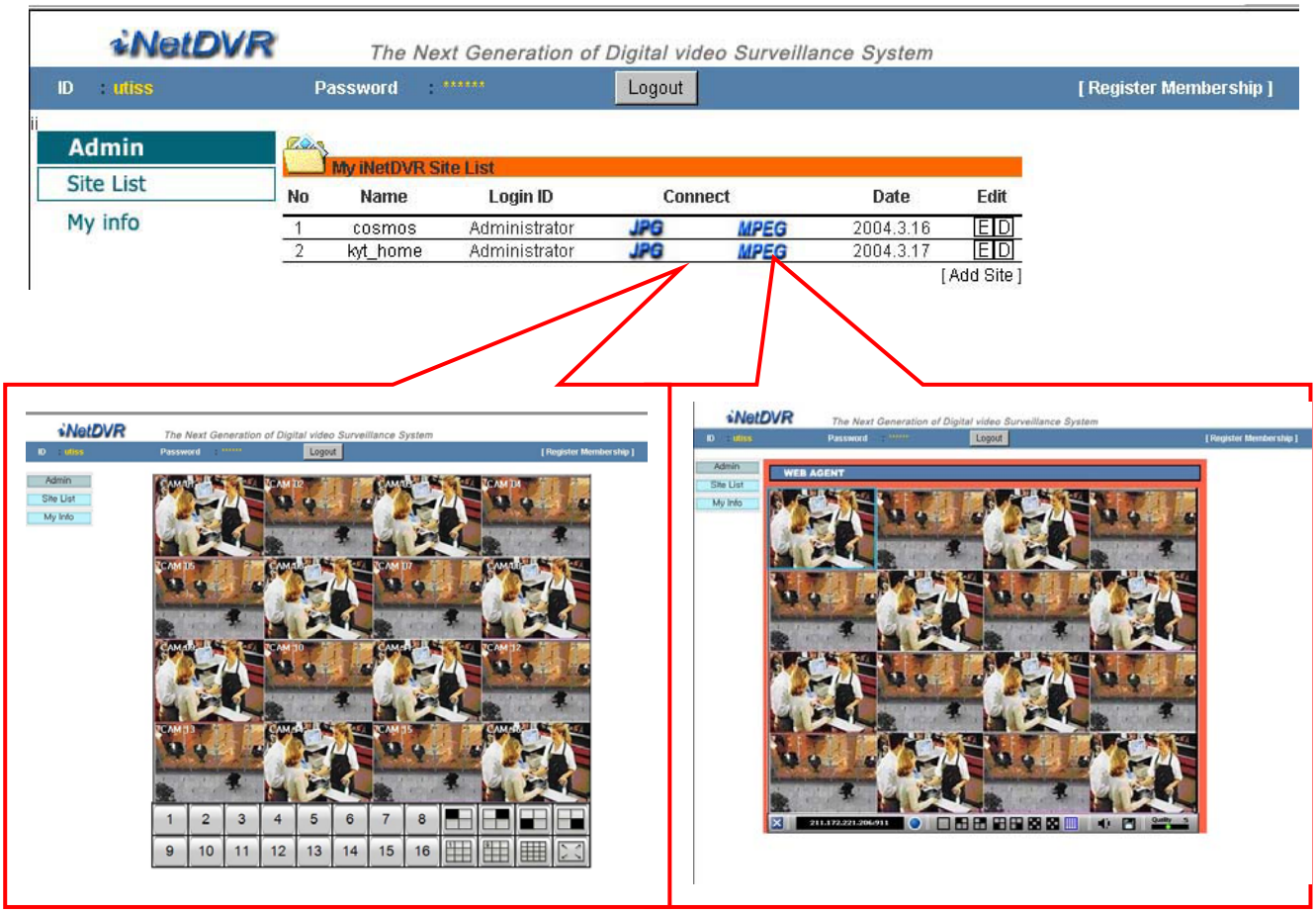


This is Web service for iNetDVR . It's mentioned iNetDVR 's Setup page [Web server's registration].

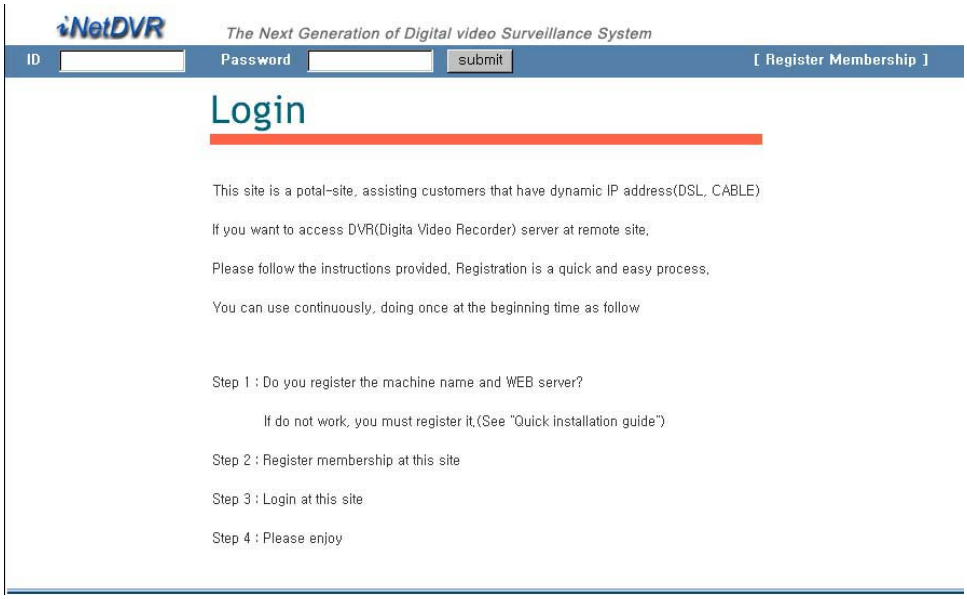
When User is Used Dynamic IP by DHCP of ADSL, Cable modem, this service make user be easy to watch Recorder. Because ,in dynamic IP, Recorder's IP is change every time when Computer is turn on. So Remote Viewer couldn't work well.
If user who has Dynamic IP, register Recorder on iNetDVR site, User could watch the Recorder's image on Web page.
It doesn't need remote viewer, and needs a few condition as like setting about web registration, etc..

There is two way to watch.
One is jpg watch and the other way to connecting is mpeg.

It works as like as 'WebAgent'.
Operation is as same as WebAgent,[Ref WebAgent]

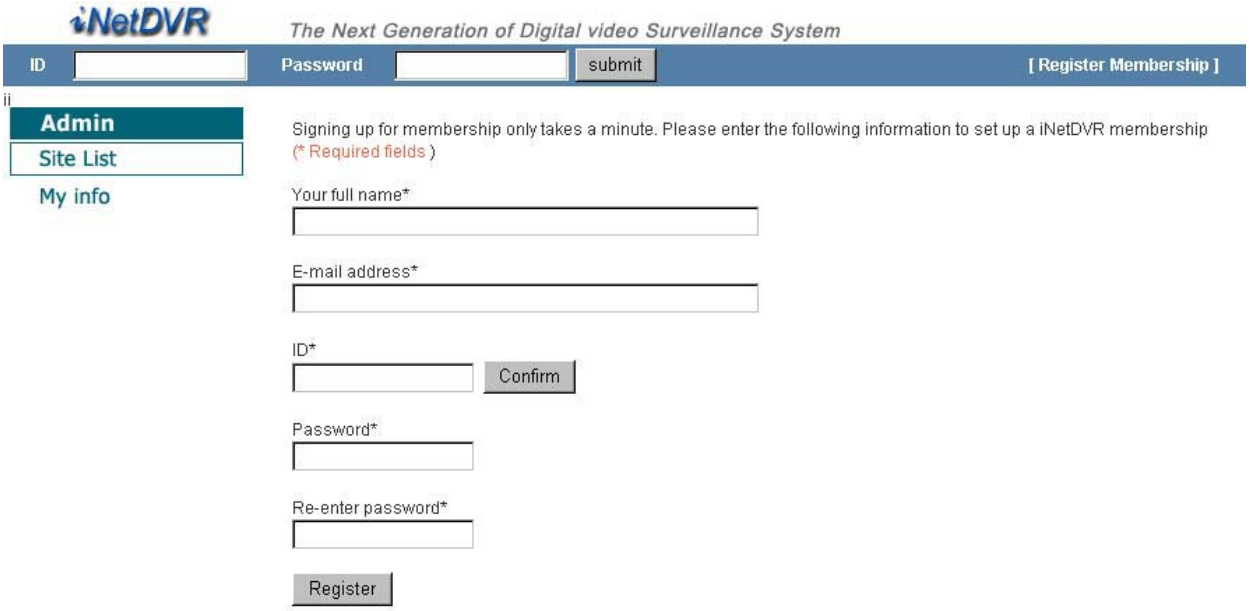


1. If you connected Web page www.iNetDVR .com, Login page is shown up.



2. if you don't have ID and password, click 

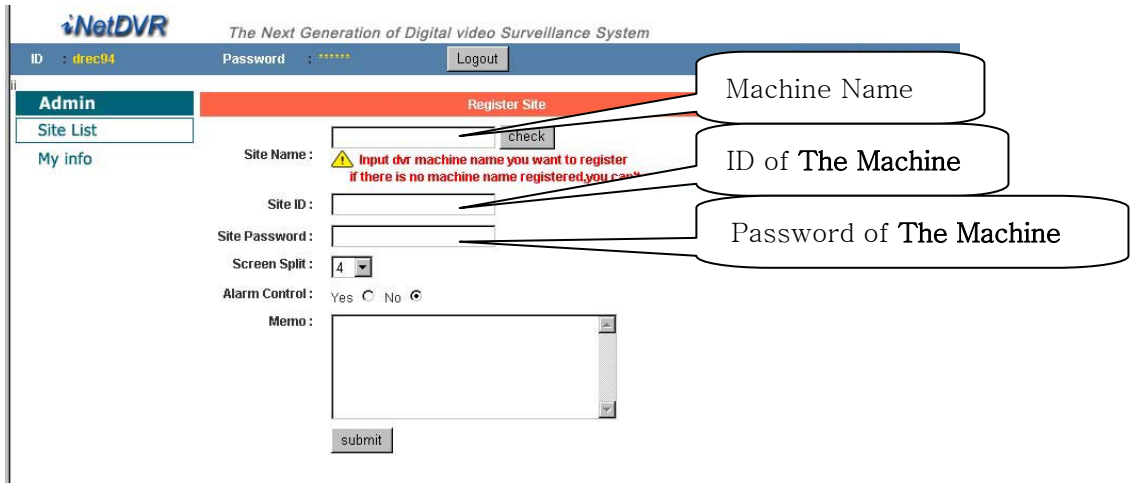
, and sign up.



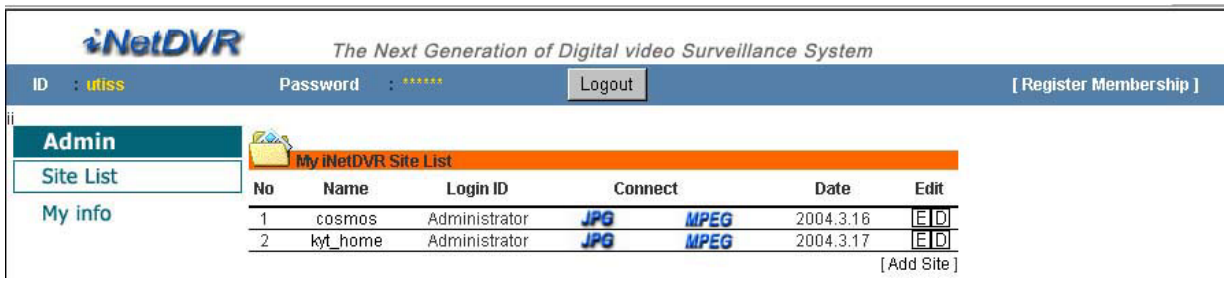
3. when you finish Register, you'll see this page.



click "Add Site", and register Site.



4. After site register, do as like Fig.



5. If you want to connect to jpg, click jpg
   or if you want to connect to mpeg with Audio, some functions, click mpeg.
   to Connect Mpeg is worked as same as WebAgent.
6. If you want to edit site information, click [E] to edit site.
7. If you want to delete site, click [D] to delete site.

PDA Viewer

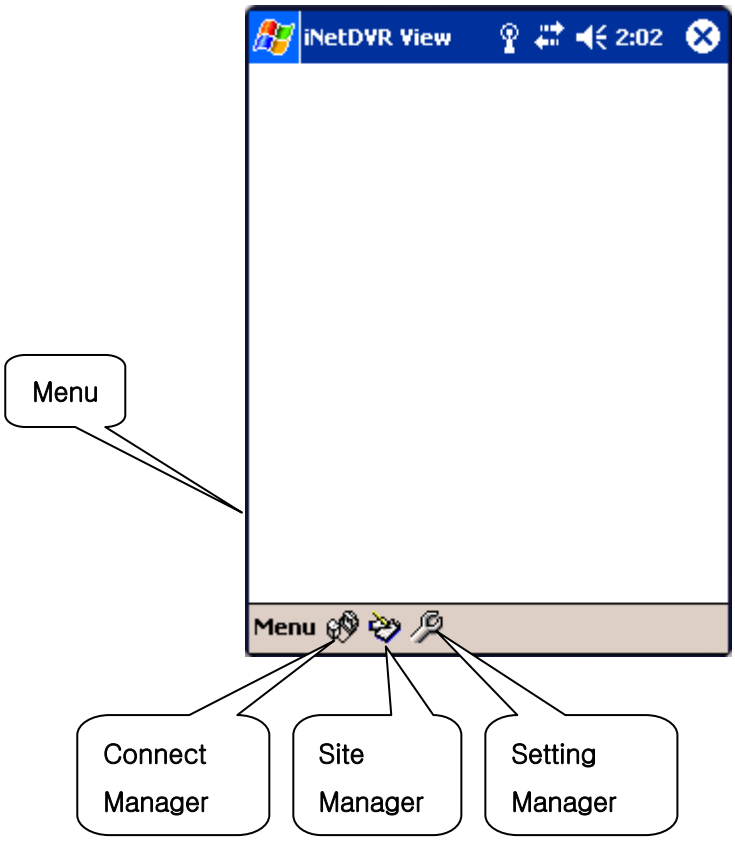
Installation

- Plug your PDA USB to PC has with Microsoft ActiveSync.
- Run Microsoft ActiveSync in the connected PC.
- Insert iNetDVR CD into the CD-ROM drive of the PC, Click “Install PPC Viewer”



Screen Overview

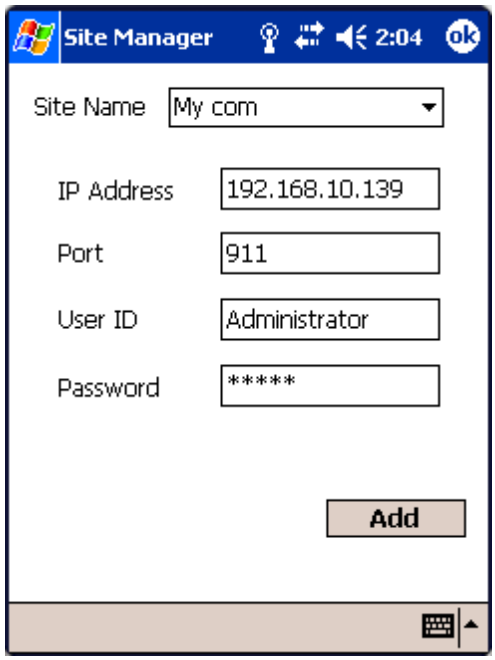
iNetDVR Commander by PDA is a remote view application for Pocket PC 2003 device.

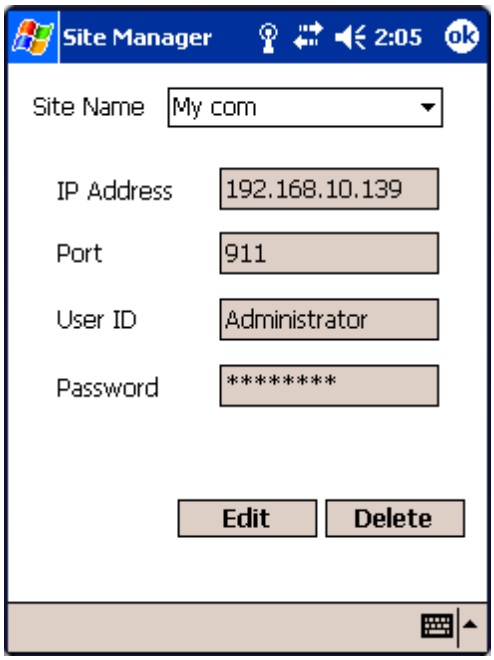


Registration Site information

To see DVR's image of remote site in Client program, must register the site information.

- Press the **"Site Manager"** button.
- Come out the window **"Site Manager".**
- Write site name what you want to into site manager.
- Write at "IP Address" and "Port", "User ID", "Password".
- Press the "Add" button



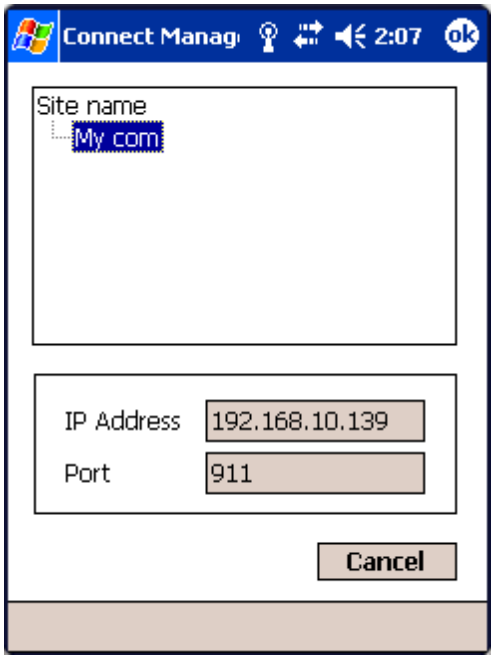


- You can do the modification or delete. But "site name" can not change.

.

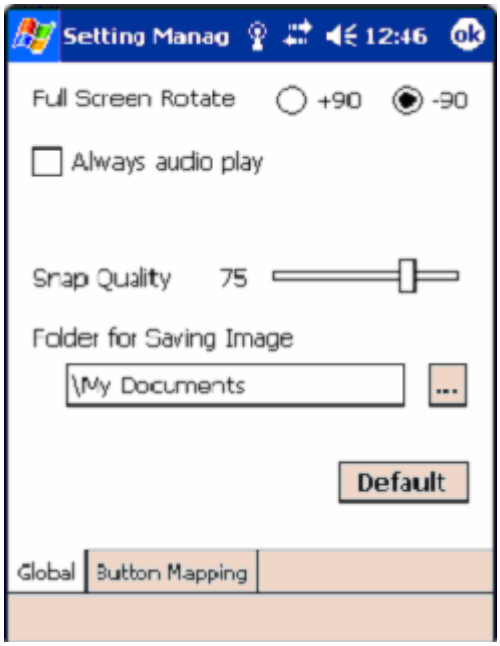
Connect Site

- Click the site name that you want to connect, and press “OK” button.

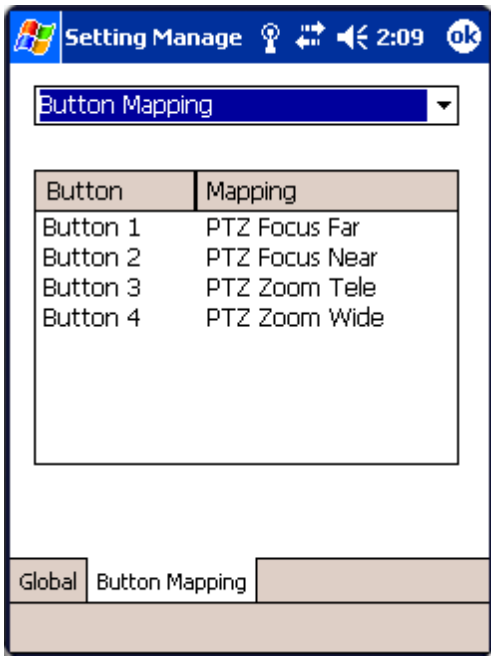


Setting Manager

- Full Screen Rotate +90. -90
- Always audio play “check”



- Choose the duty which you want in the “Button Mapping” Combo box.
- Press a hardware key.

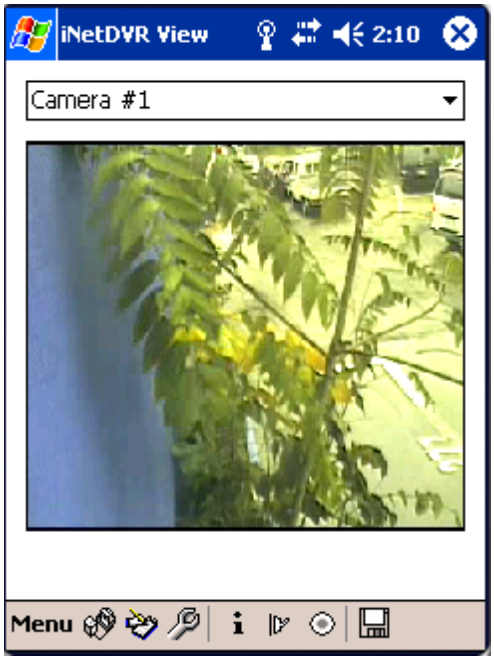


+

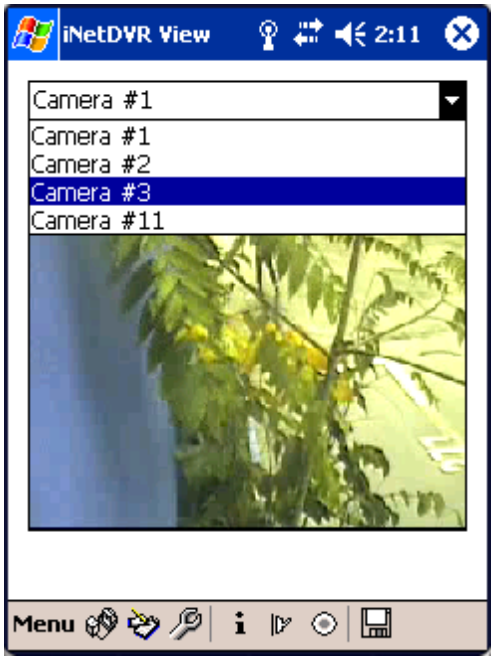
Monitoring Live image

Monitoring Live image support one channel, one Audio

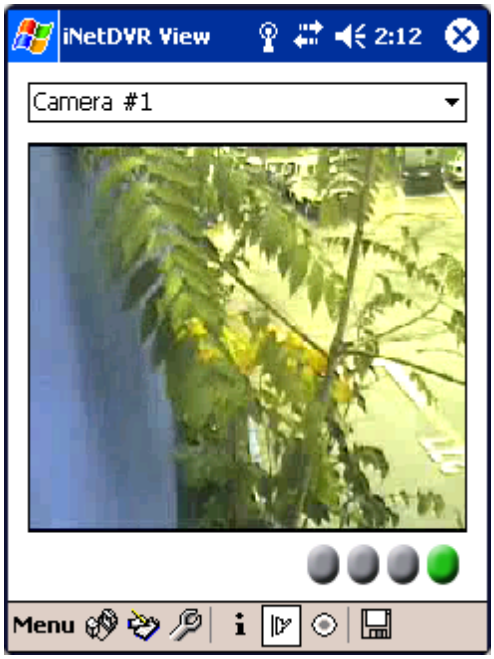
- Monitoring Live Image



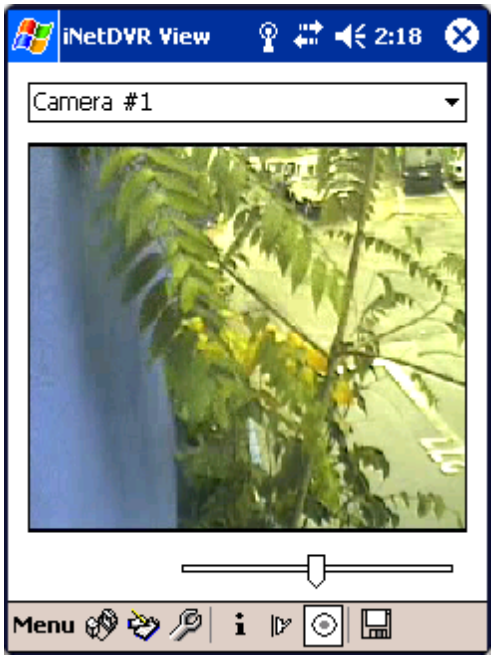
- Monitoring selected camera channel



- Switch button

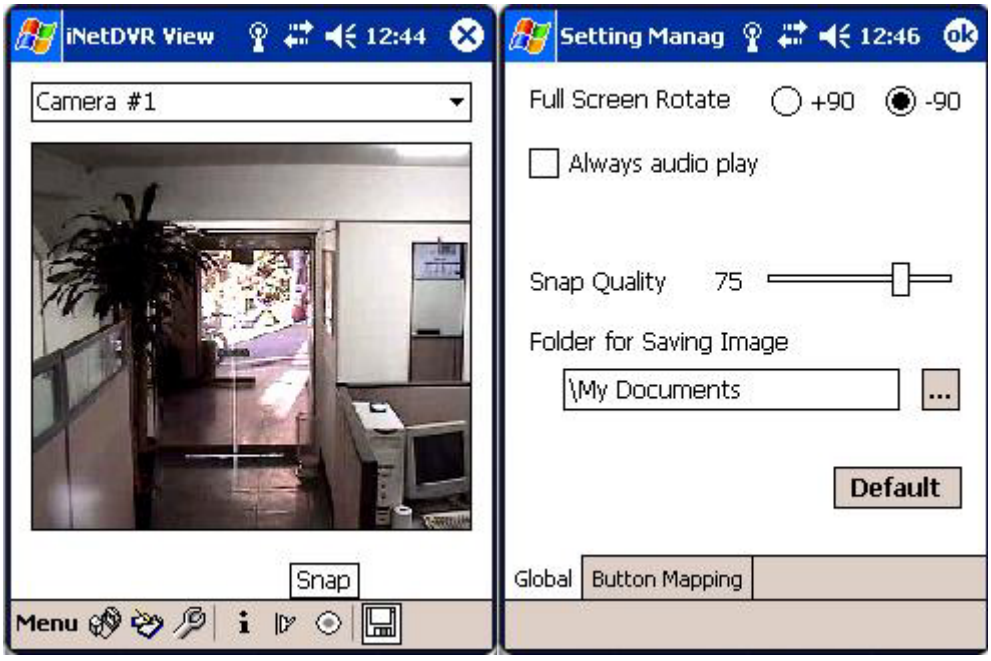


- Image quality



- Save image

CCP Viewer can capture and save image where you set saving image path at setting manager.



Control PTZ (Pan Tilt Zoom)

PTZ Pan and Tilt, Full Screen toggle is fixed to Hardware Key (left , right , up , down , start). But “Zoom” Key and “Focus” key set to the button which you want.



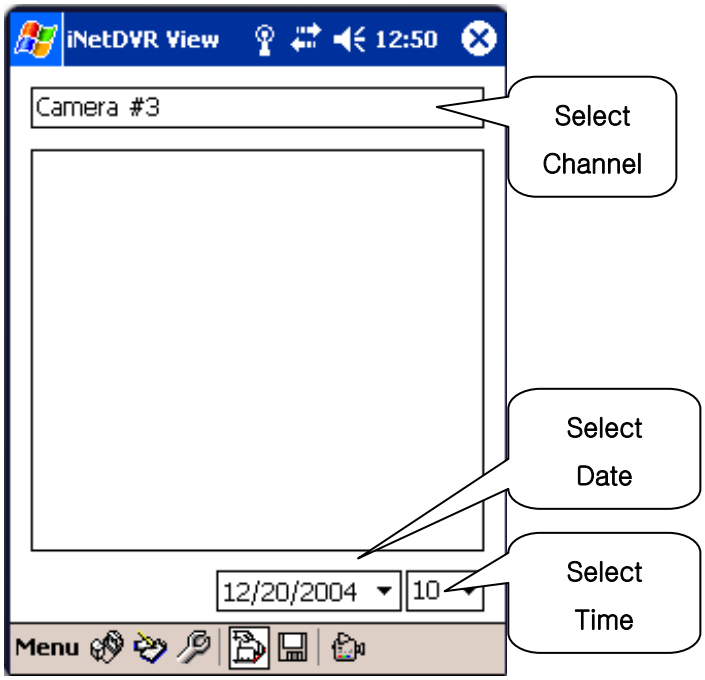
Search

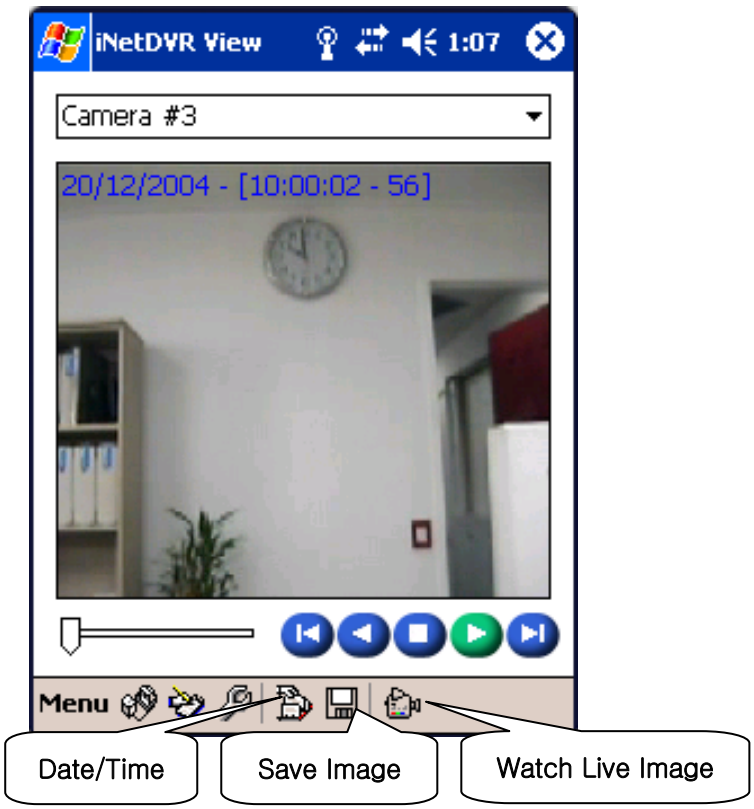
1. If you clicked Search button, you can see Screen Viewer



2. Search screen overview

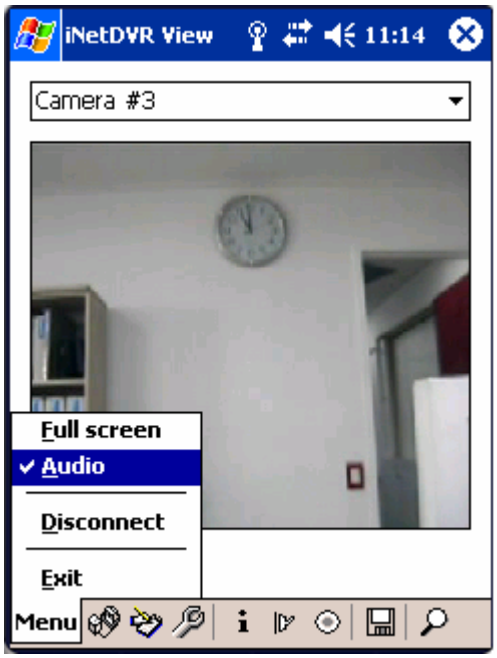
Select date and hour and Channel which one you want to search



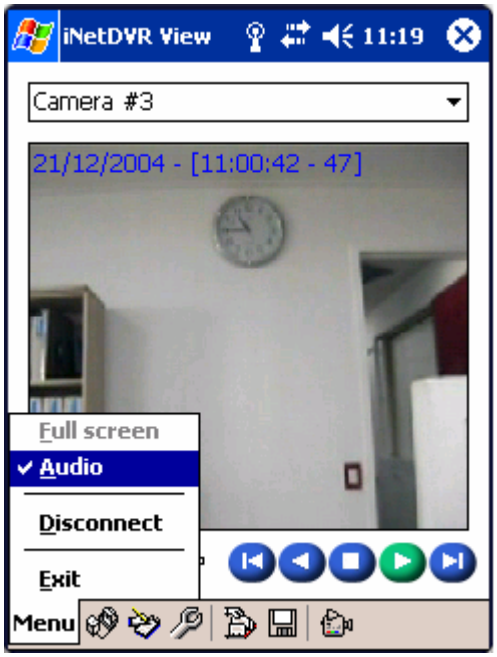


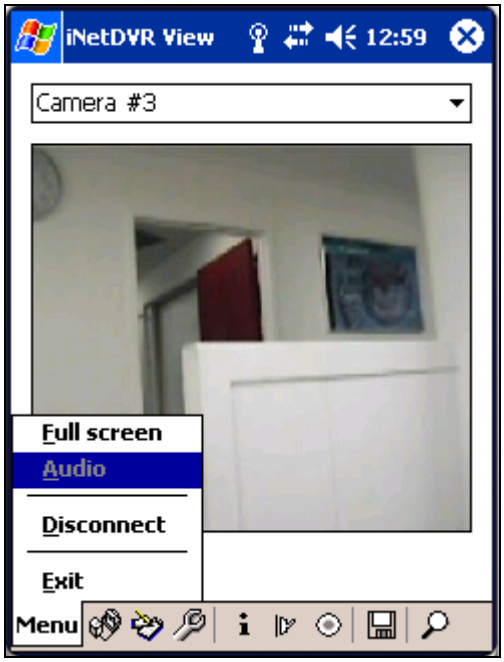
Audio

1.When you watch live image, you can get audio from the connected site



2. Also you can get recorded audio, from the connected site when you searched recorded image data





Full screen

It does not work on Search mode

Audio

If the channel which you see on PDA screen , has audio,

“AUDIO” Menu is enable to click

If you set “Always Audio play” in setting page, “Audio”Menu is checked automatically

Disconnect

Disconnect communication

Exit

Turn off this application