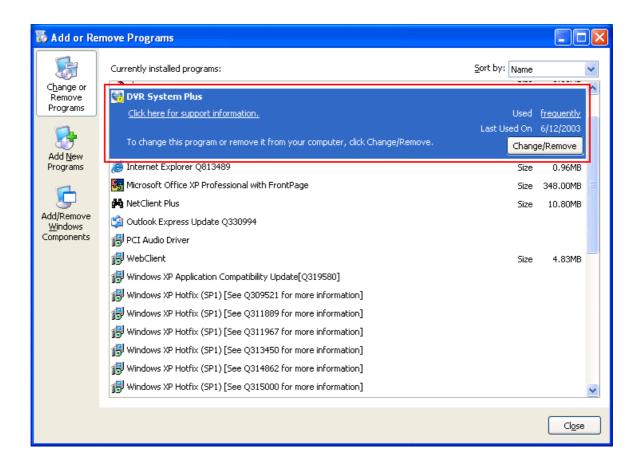


2-2-3. Uninstall DVR Server program

- 1. Under the Start menu in Windows, go to Setting and then to Control Panel
- 2. Double click the Add or Remove Programs
- 3. Select DVR System Plus and Click on Change/Remove button.



- 3. Click Remove button and Press the [Next] button.
- 4. Press the Finish button to complete uninstalling DVR program.
- * The uninstall program will delete all DVR system files on your hard disk. However, it does not delete the video images and the log files already saved in the hard drive of your DVR PC.



Chapter 3 User Manual for SmartDVR Formula v2.0







3-2. General User Guide

3-1 Main features and functions

1. Operating System (O/S)

DVR system uses Windows 2000/XP as a basic OS and is designed to operate all needed functions of DVR System properly.

2. Main Program

The main program operates Search, Backup, Recording, and every function to control DVR System and it has the following functions and features

1) Easy to search

According to date, time, and camera, the user is able to execute instant, speedy, conditional, and magnified searched video images.

2) Backup & Print function

Able to print out searched images and provides Backup function

- 3) Switcher (Auto -Selector) function
- 4) Screen Division Function

The user is able to select the following screen division: 1, 4, 8, 9, 10, 13, 16, and full screen

5) Record speed control function

The user is able to adjust recording rate

6) Record qualify setup per CH function

Able to manage HDD space efficiently by adjust recording quality per channel

7) Motion Detection Function (MD)

The user is able to setup motion area, and record the image when the motion image is detected in the area.

(Recording, Event processing function)

8) PAN/TILT Control Function

P/T/Z built in the system (Requirement of Receiver Device)



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9) Alarm connection with Camera & Sensor

Connect with emergency bell and alarm while MD & Sensor are operating

10) Watch Dog

When system function does not operate properly or emergency shutdown, watchdog function operates auto reset/restoration existed data

11) Water Mark

A copyright-protection method of embedding a code into a digital audio or video file to attempt to thwart piracy or unlicensed use

12) Image Transmission (Option)

Remote sites image transmission by using PSTN

(Able to monitor remote sites from Web Browser and NetClient program)

13) Store Resolutions

Support 320×240 pixels, 640x480 pixels

- 14) Line Monitoring Image Signal Monitoring Function
- 15) Schedule
- 16) Record, Digital-Out, and Alarm function
- 17) Password



3-2 Monitoring Screen Mode

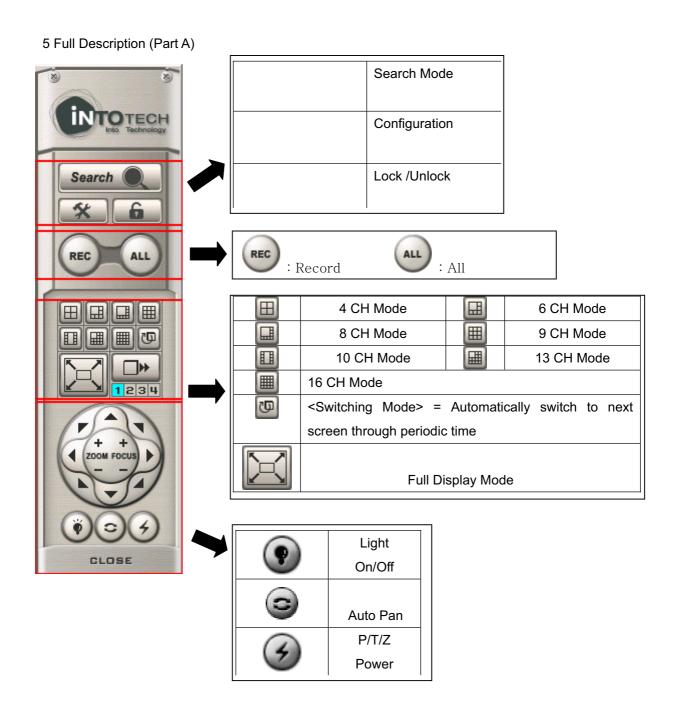


- 1: Standard Display Screen
- 2 : 1CH recording screen (represented by
- 3 : Schedule Motion Detection Recording Screen (represented by
- 4 : Motion Detection Store Screen (represented by
- 5, 6: Please refer to full description as below

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6 : Full Description (Part B)



1: Sound volume control

2 : Power

3 : Camera On

: Camera Off

4: Indicate item under LAN / MODEM connection

TCP : support up to max. 100 users

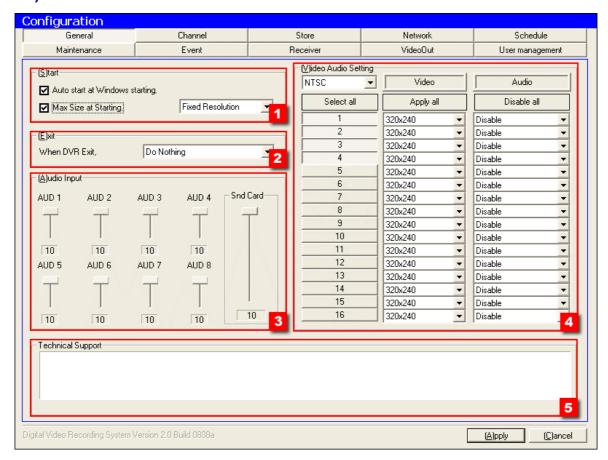
MODEM: support one user

Double Click on configuration (



) icon in Main View Screen.

1) General



1. Start Windows

Auto start at Windows starting.

: Automatically execute program when start of Windows

Max Size at Starting.

: Execute Full Screen Size when run DVR program

2. Exit DVR program

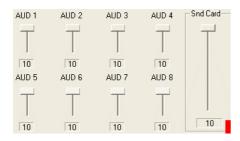
Do Nothing Reboot System Shutdown System

: Only exit DVR Program

: Restart Windows when exit DVR program

: Shutdown Windows when exit DVR program

3. Audio volume control



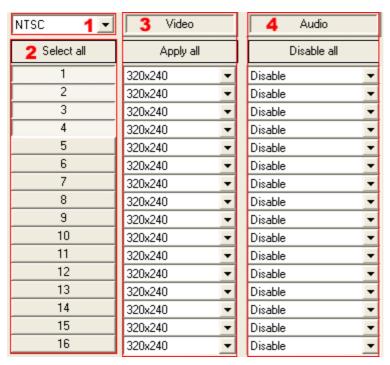
: Audio volume setting

: Setup volume for AUD 1 ~ AUD8

: Snd Card = Setup Sound Card volume.



4. Camera and audio configuration

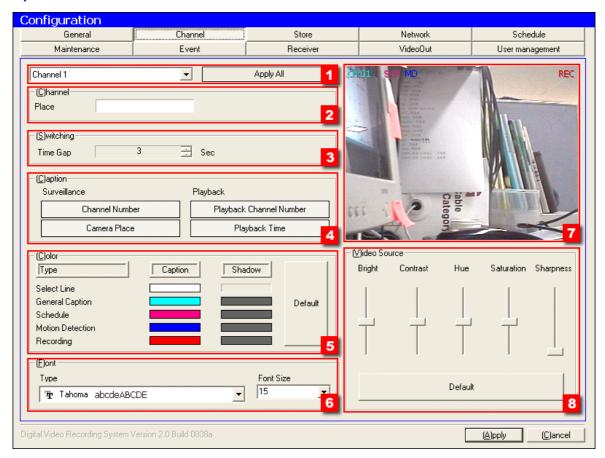


- 1 : Select camera type (NTSC, PAL)
- 2 : Select camera channel
- 3 : Select display resolution for each camera channel
- 4 : Select audio device
- 5 : Indicate technical support information

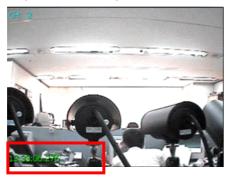
1. Video Resolution					
	320x240	640x480			
SDVR	16CH	16CH			
HDVR	16CH	16CH			
HPLUS	16CH	Support up to 6CH			
2. Audio SDVR Support up to 2CH					
HDVR		Support up to 5CH			
HPLUS		Support up to 9CH			
		Cupport up to corr			



2) Channel



- 1. Selecting the camera CH/Apply change to all camera CH
- 2. Insert the place name of selected camera
- 3. Switching delay time for screen-partition mode
- 4. (Search Screen)



(Monitoring Screen)

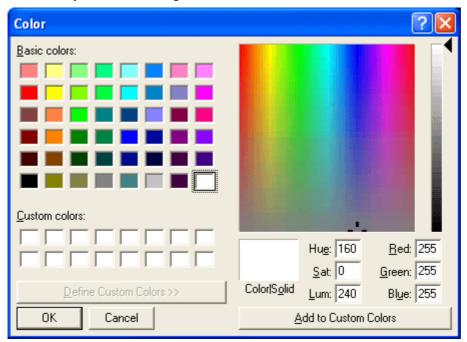




5 : Assign control color tone

(Direction)

Click color you wish to change

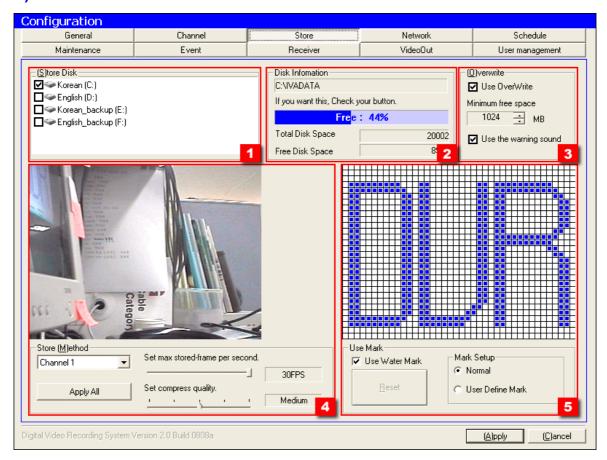


Select Color you wish to change and then click confirmation button

- 6 : Select you wish to change character form, and size
- 7 : Preview selected result from step (11) ~ to step (6)
- 8: Adjust Picture Quality



3) Store



- 1 : Check the HDD where you want to use for storage
- 2: Indicates total HDD space for selected HDD in [1].
- 3 : Select to use overwrite function



Start to overwrite when HDD Free space becomes 512 MB

4: Display Picture Quality and Setting stored-frame



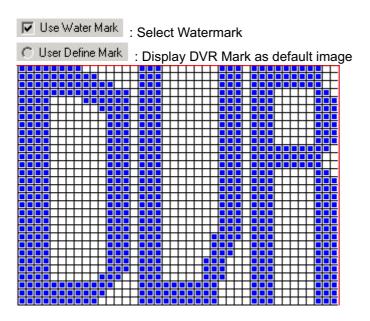
Display frame number of each channel (30Frame per Second)

: Higher FPS provides more natural image

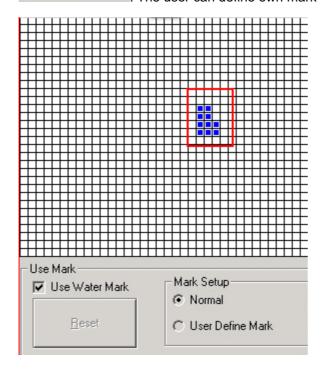




5: Watermark Setup

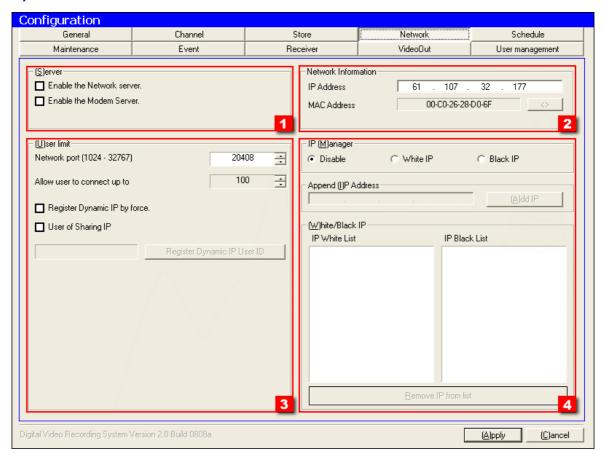


C User Define Mark: The user can define own mark





4) Network



1.: Network Server

☑ Enable the network server.☐ Enable the Modem Server.☐ Use LAN☐ Use MODEM

2: Indicates DVR IP address and MAC address.

3.: Limit of possible simultaneous client connection



Network Access Port: Select Port No. while Client is accessing to Server

Max. Accessing User Number: Assign Accessing User Number (Max. 100 Client number)



★ Register Dynamic IP

: Service for dynamic IP users

DHS (Dynamic Host Services)

Dynamic IP users IP address changes frequently which causes inconvenience to check IP address each time when connection. DHS executes a role as fixing Dynamic IP to Static IP.

For more information please connect to http://chainip.com/eng

For any questions regarding DHS service, please contact:

TEL: 82-2-566-3288 OR dhs@intotech.co.kr

Register Dynamic IP by force.		
User of Sharing IP		
	Register Dynamic IP User ID	
For Dynamic IP users when (Register Dynamic IP) part is not activated:
Please click 'register Dynamic	: IP by force'	

For Sharing IP users

: Please click 'User of Sharing IP'

4. IP Manager setup

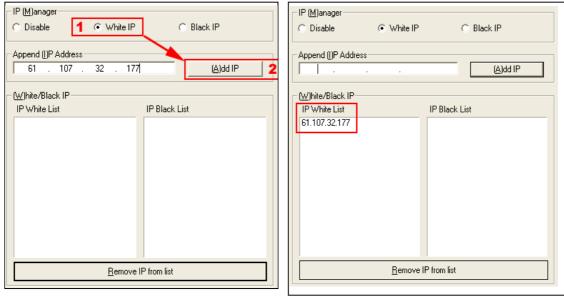


Black IP: Prohibit connection of selected IP.



★ Network Configuration ★

(White IP setup)

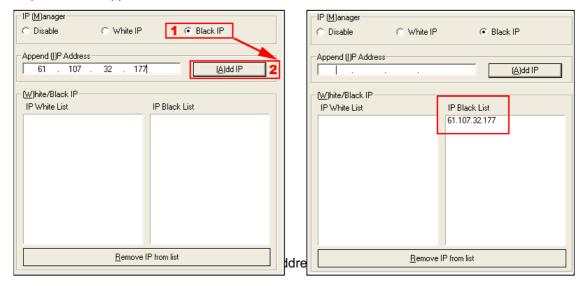


< Before setup >

< After setup >

- 1: Click White IP in [1].
- 2: If 'Add IP' is activated please insert IP address.
- 3: Cllick [2] button and IP address will be added to White IP List.

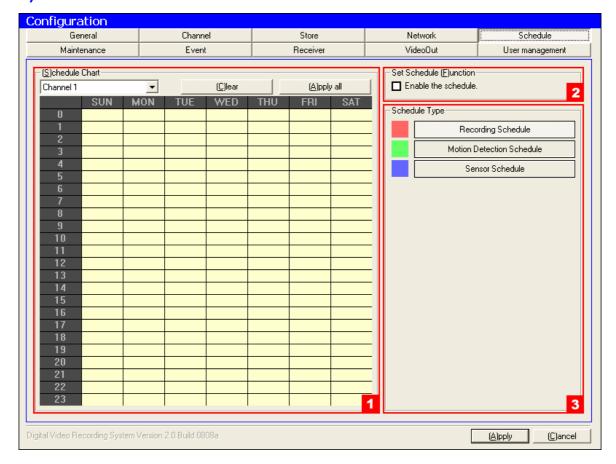
(Black IP setup)



3 : Click [2] button to add IP in Black IP List.

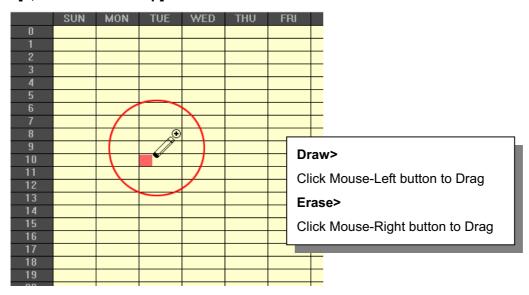


5) Schedule



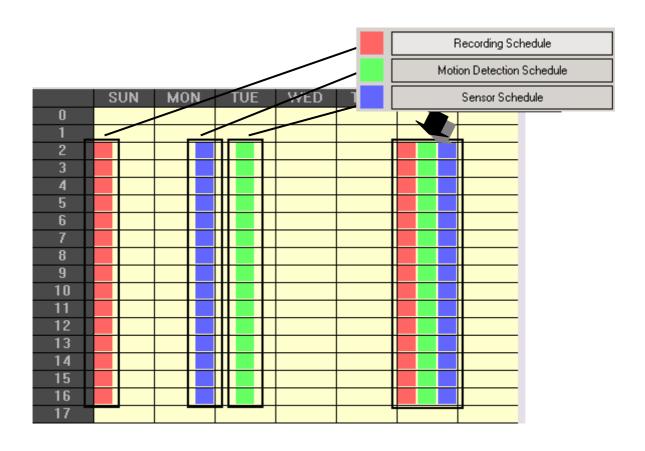
- 1, 3: Setup Recording, MD, Sensor schedule.
- 2: Choose channel in [1].

[1, 3 Schedule setup]



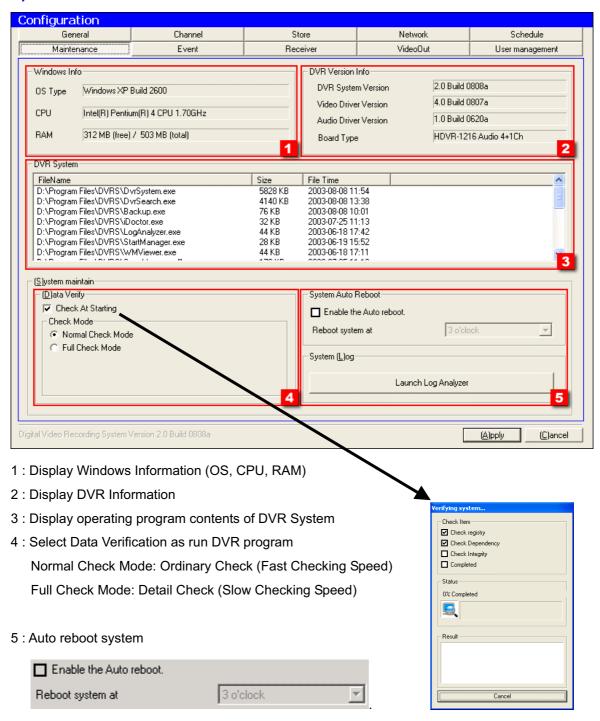


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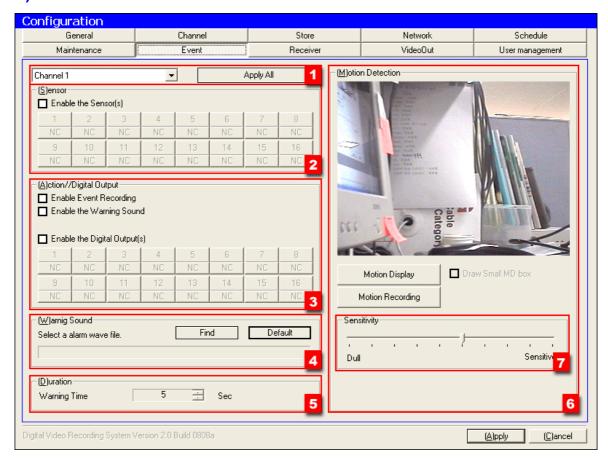


6) Maintenance





7) Event



1 : Select camera channel you wish to change

Click Apply All button to apply all channels

- 2 : Setting up Sensor of existing operating camera channel (Optional)
- 3 : Setting up Digital Output(Optional)
- 4 : Select any Warning Sound.

(Item 2, 3, 4) applies only when I/O installed in DVR

5 : Duration of warning time when sensor input.



Motion Detection Store

Motion detection is to detect any relevant changes in the image or video.

Motion detection demonstrates how sensitive peripheral version is to motion.

At a certain point, you can no longer see the object. If the object starts moving, you will become aware of it, even though you could not see it while it was stationary.



<Picture 1> MD Setting Area

Mouse-Left button Drag and Drop: Select MD Area

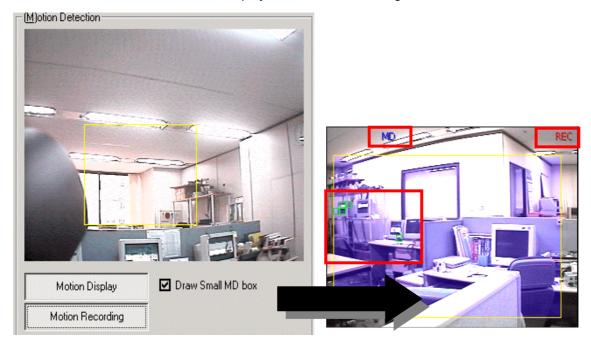
Mouse-Right button Drag and Drop: Unselect MD Area

Mouse Left button Double Click: Select all of the Area

Mouse Right button Double Click: Unselect all of the Area

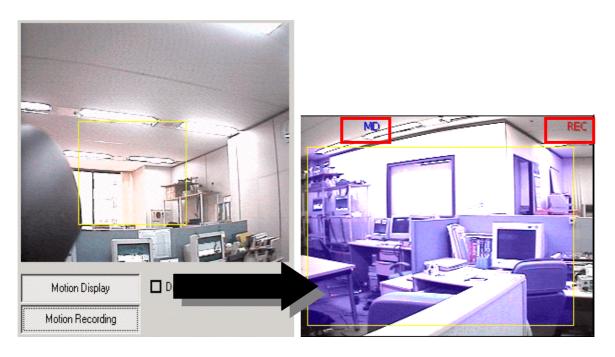
<Picture 1>

- 6: Motion Detection Configuration
 - Check Point : Motion Detection Display, MD Driven-Recording, Draw Small MD Box





- Check Point : Display MD, Record MD images



- Check Point : Record MD images

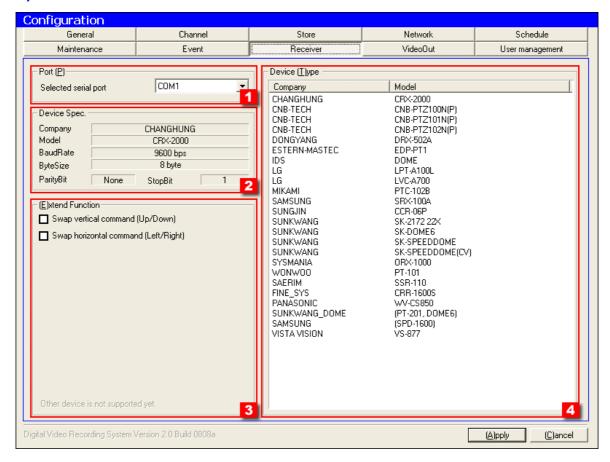


7: MD Sensitivity Setting





8) Receiver

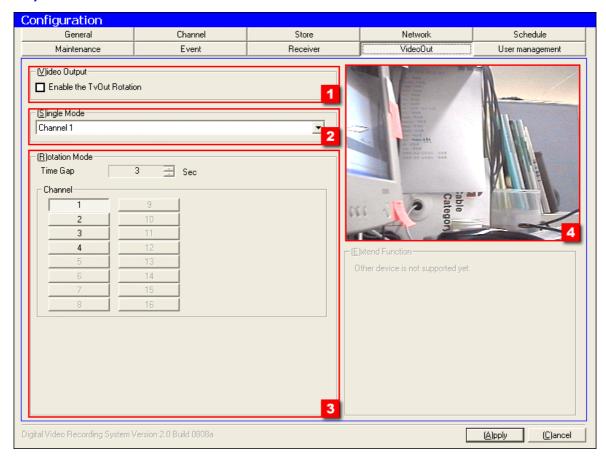


- 1 : Select the serial port to use (COM1,COM2))
- 2 : Display current receiver information
- 3: For expansion of Pan/Tilt function
 - Swap vertical command (Up/Down)
 Swap horizontal command (Left/Right)
 Swap horizontal command of P/T protocol.
- 4 : Available receiver list: (Select the receiver to use)

Address of Receiver has to be equal to the channel number. Also you have to use same device. (EX: Channel 1 => HW Address)



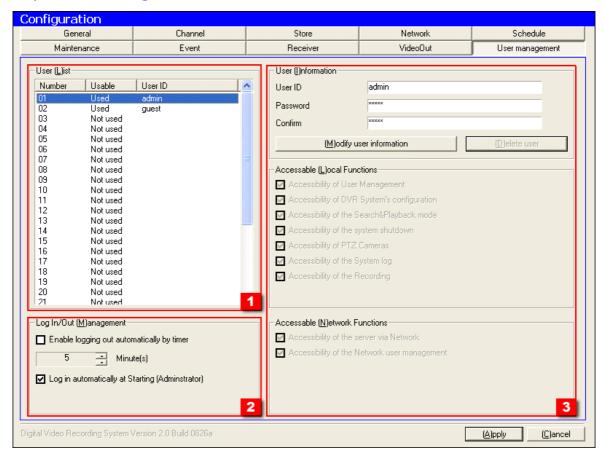
9) VideoOut



- 1 : Setting Output CH number through TV-Out (Option)
- 2 : Select TV-Out CH
- 3 : Setup time of Switching Mode
- 4: Appear Preview Screen



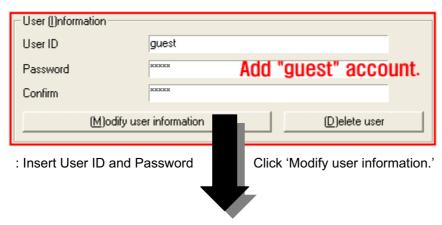
10) User Management



- 1: User List
- 2 : Log In/Out management



- : Automatic log out function after setup time
- : Enable login & out function.
- 3: Authorization of local functions and remote control
 - < Add users >



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Accessable (L)ocal Functions						
Accessibility of User Management						
☐ Accessibility of DVR System's configuration						
☐ Accessibility of the Search&Playback mode						
Accessibility of the system shutdown						
✓ Accessibility of PTZ Cameras						
☐ Accessibility of the System log						
Accessibility of the Recording	Setup "guest" user					
	accessibility.					
	accessing,					
: Choose accessibility for	DVR Server.					
A 11 00 : 15 c						
Accessable (N)etwork Functions						
Accessibility of the server via Network						
Accessibility of the Network user management						
	Setup "guest" user					
	remote accessibility.					

: Choose accessibility for remote Client program..



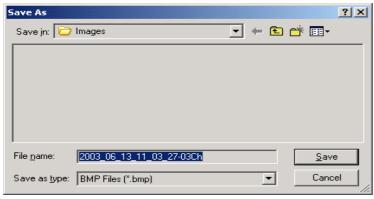
3-3. Search Screen Mode





I: Playback, Rewind, 2X Playback

: Save selected screen as image



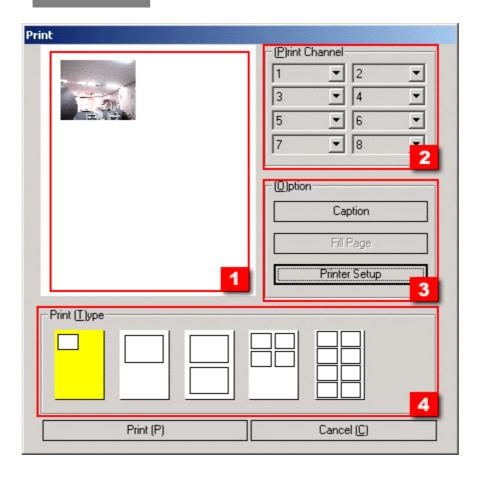
Choose where to save image file and write file name



Print



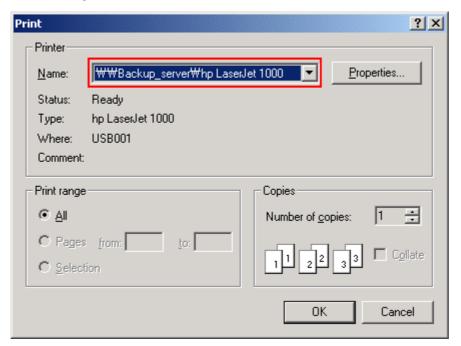
Print Setup



- 1: Preview Printing Images
- 2: Able to print maximum of 8 selected camera channels
- 3: Printer Setup Option

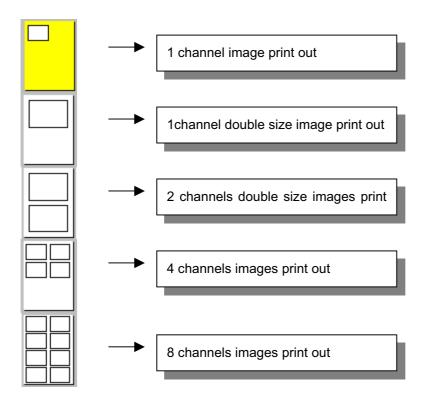


<Print Configuration>



Click the [OK] button to print

4:1 CH original copy size

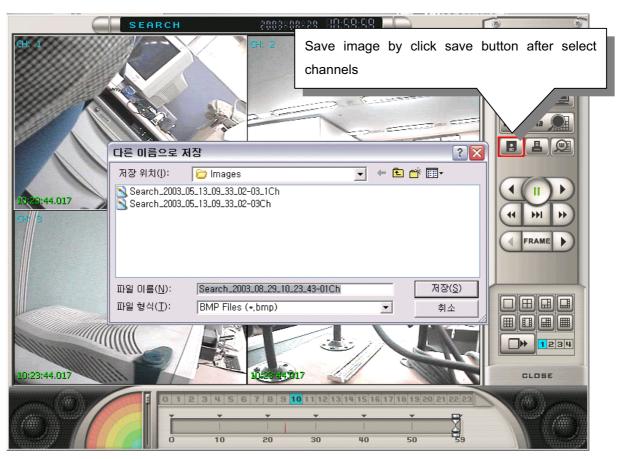




Watermark



1. Save image from search screen and view screen

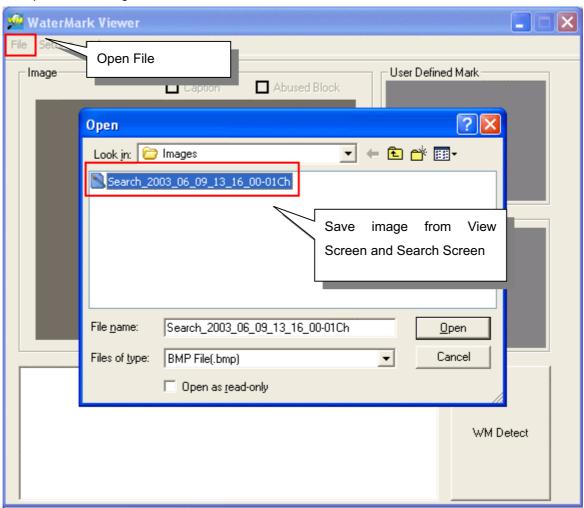


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2. Click the watermark icon () from searched Screen Mode

Open File to bring saved data

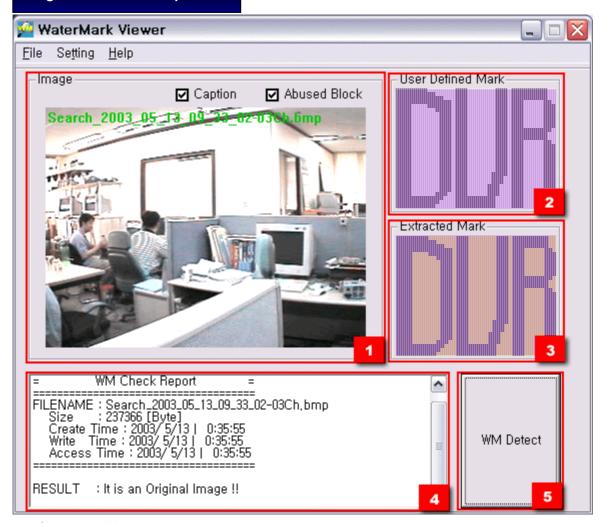


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3.Click the [WM Detect] to watermark

Image has not been tampered

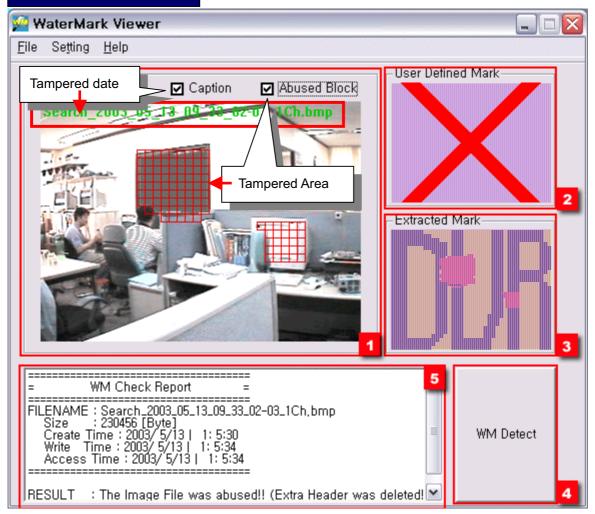


- 1: Show saved image.
- 2: Show defined Mark by user at Configuration Mode
- 3: Show Mark hidden in real image
- 4 : Show information related to image (Size, file formation time, modified time, process time)

 RESULT : It is an Original Image !! = Show that images has not been tampered
- 5: WM Detect button



Image has been tampered



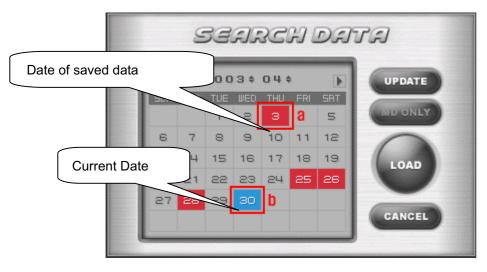
- 1: Show saved image
- 2 : Show defined value of Watermark from Configuration Mode Display X Mark as tampered image was detected
- 3 : Show Mark hidden in image (Display read color at tampered area)
- 4: WM Detect Button
- 5 : Show image information size, reading time, writing time)
 - RESULT: The Image File was abused!! (Image has been tampered)



Search

1. Move to Search Screen Mode and then Click the calendar (



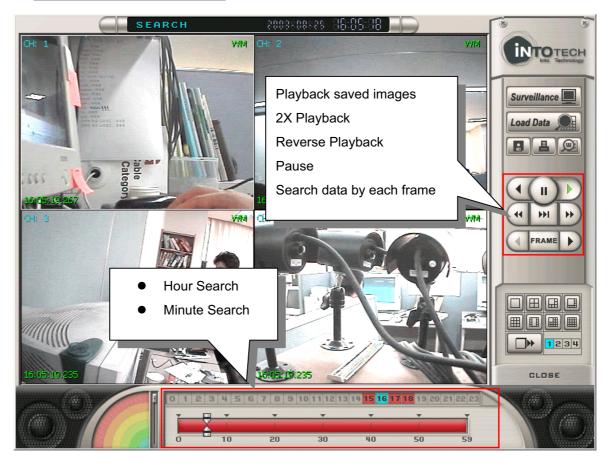


2. Select Search Date and then Click [Load] Button

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Search Screen



Click the view mode (Surveillance) icon to return to Monitoring Screen (Main View Screen)

^{*}Intotech Inc. is committed to ongoing product improvement; we therefore reserve the right to change specifications without notice.



Warranty

Model	SmartDVR Formula v2.0	
Manufactured Date		
Lot. No		
Period of Warrant.	1 Year after purchasing	
Purchased Date		

It was a qualified item to pass a strict inspection and Quality control.

If it happen any problem, it will be guaranteed according to the following written description.

- 1. The period of warrant is one year from the date of purchasing this item.
- In case of deficit in manufacture, when happening trouble spontaneously,
 We are ready to exchange or free-repairing refund or compensation.
- If will fix up the system at Actual expense even though it in the period of Warranty as following cases;
 - A. Mistake in using this system or trouble by handling carelessness
 - B. Trouble by repairing and reorganizing without our company is Permission,
 Trouble to repair and reorganizing system by other companies Service
 - C. Troubles or Damages by due to the natural disaster Fire, earthquake, flood etc.
 - D. A case of Troubles by Customer's attention of mistakes
- 4. If you would like to request the Application of A/S. Please contact below.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment

WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INFORMATION TO USER:

This equipment has been tested and found to comply with the limit of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1. Reorient / Relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit difference from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio/TV technician for help