N-Patrol Commercial DVR system

USER'S GUIDE FOR SOFTWARE VERSION 5.X

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Introduction:

Thank you for purchasing N-Patrol's DVR system. This operation manual is designed to introduce you on how to setup N-Patrol's DVR system and explain each function of the DVR in order to use the system effectively. Operators of the N-Patrol DVR system should go through this manual thoroughly, prior to installing or using the system.

System features

- Hardware supports H.264 compression, low HDD consumption.
- Web access trough LAN or WAN.
- Real-time full-motion video-capture & display (Max. 48 channel video).
- Real-time high-speed recording: (Max. 30 frames/sec per channel).
- Synchronized audio recording (optional).
- Motion detection (Whole area or max. 12 detection zones per channel).
- Normal recording (continuous) and event recording (Motion detection or external sensors).
- Electronic Map pop-up when alarm is triggered.
- System operating and alarm logging.
- Record before alarm is triggered.
- Remote recording.
- Automatic alarm messaging.
- Alarm automatically sends an image to your email box as attachment.
- Matrix display and group display.
- Duplex mode (Recording while playback).
- Network support (Remote access via LAN, Ethernet, PSTN, ISDN, ADSL).
- P/T/Z/F & speed dome control.
- Search/playback by date/time and file list.

Chapter 1 DVR Server

- 1 Start up:
- 1.1 Before you press the DVR power button, please check that all the connector interfaces are firmly connected.
- 1.2 Press the DVR system power button, the power LED turns on, the main window will display later (the time varies depending on how many channels you have, each channel needs about 4-5s). If the DVR's auto startup shortcut has been deleted from the startup menu, please double click the



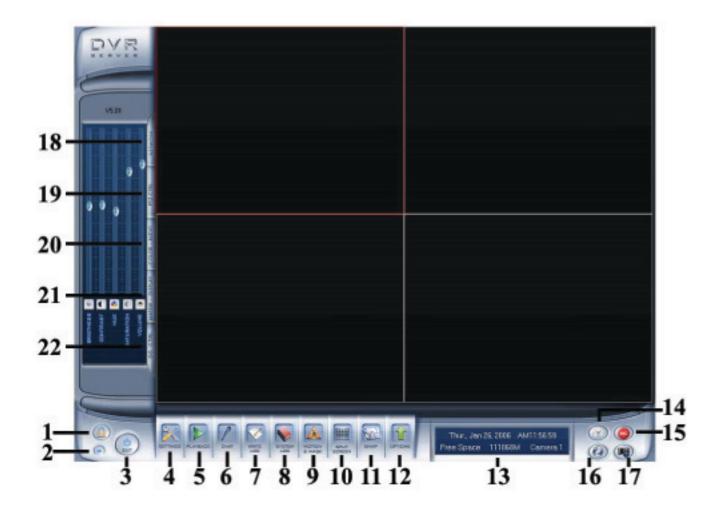
DVR Server icon

in windows desktop.

NOTE: If this is the first time you ran the system after the installation of the compression cards, you should setup the card's resolution.

Video Card Setup			Video Card Se	tup
DS4008HC	8×CIF -	Ι	DS4008HC	8×CIF -
DS4008HC	8×CIF -	I	DS4008HC	— 8×CIF 1×D1+6×CIF
DS4008HC	8×CIF -	Ι	DS4008HC	$\frac{2 \times D1 + 4 \times CIF}{3 \times D1 + 2 \times CIF}$
DS4008HC	8×CIF -	Ι	DS4008HC	
DS4008HC	8×CIF -]	DS4008HC	8×CIF -
	-]		•
SAVE	EXIT		SAVE	EXIT

The main window looks like the following image:



2. Main window:

- 2.1 Show tips: When the mouse moves over a button, the button function is shown immediately.
- 2.2 Full Screen Mode: Double click will change the display mode to full screen, click again to turn back to normal. At the most, 49 video windows can be shown on the main window at the same time.
- 2.3 Recording status: See the icon that appears on the top-right of the active windows.
 - a. This icon means the system is recording normally.
 - b. This icon means the system is recording manually.
 - E c. This icon means the system is recording in motion detection mode.
 - d. This icon means the system is recording in sensor detection mode.

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The digital map can be used to designate the alarms. If the digital map is not opened in the setup, the state of the alarm will not be shown in the window. The digital map will be explained later.

Next we will describe the functionality of every control button of the system.

Lock DVR: Locks keyboard and mouse preventing unauthorized users to operate the (1). system.

(2). Minimize button: minimizes the main window.



Click "OK" to quit the Aventura System.



Settings: Setup DVR.

Enter Playback Mode: Allows users to enter playback mode and search for recorded (5).

video/audio.



Remote Chat: Initiates dialog to connect to a remote client or Server to chat

live over IP.

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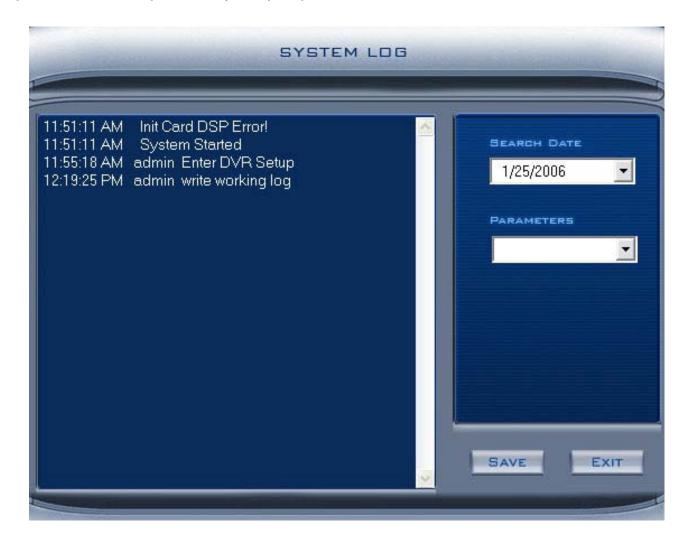
(7). Write a Working Log: When this button is clicked, the user that is logged onto the system

may enter particular notes using the keyboard. This is useful for documenting events that occur during the operator's shift.



(8). System Log: Allows users to view all recorded activities as well as view the operator log

reports created. System log keeps a record of system events such as shutdown, camera setup changes, program startup and shutdown, and both Operator and System Administrator's daily activities according to time and date. One can search by date and by system parameters. System parameters include operations, system prompts, alarms, or all activities.



(9). Motion & Mask: Used to set up the built-in motion detection. By default the entire screen is setup for motion detection, as indicated by the green border around the image. To mask a specific area, at first, click the "delete" button to get rid of the full screen detection border, then click and hold while stretching a rectangle. A green rectangle will mark the area of detection. Several areas of detection may be used. Any activity within the green bordered areas will trigger recording. Depending on the reaction method, alarms may be generated along with electronic map icons flashing in alert mode. Click the TEST mode icon to test the sensitivity of motion detection. The sensitivity can be adjusted using the slider bar at the right of the motion detection window.



ADD MASK Add a cover area: If there are some areas you don't want shown, draw those areas with the mouse, and this area will change to black. You can set several cover areas. Press this button once to set a masked area, press button again when you are done.

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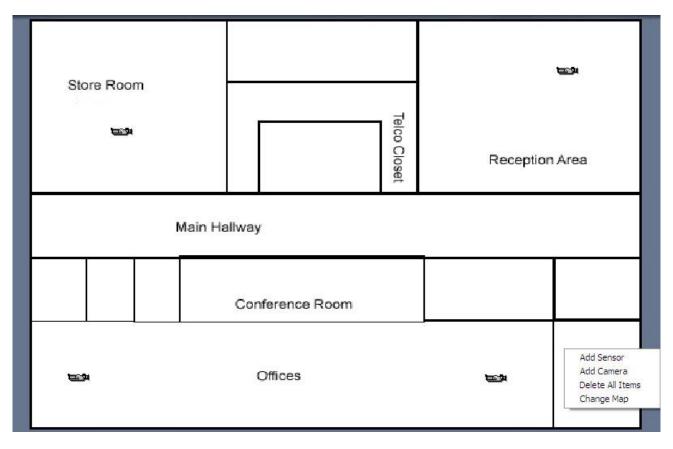
DEL MASK Delete all mask areas.

(10). Split Screen: The window display mode of the main screen. There are many types of partitions including 1,4,9,12,16,20,25,28,33,36,40,49. Select the suitable partition according to your video inputs.

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(11). E-Map: Display Electronic Map button. (If it is set to appear automatically, when a sensor is triggered, the map will appear automatically and the sensor will be marked). Click this button, (it has to be set as map enable) and the map will appear. Click the SETUP button and then click the right arrow on the map, the picture on the right of the map will appear. You can add or delete sensors and cameras

(the cameras are those pointed by the arrow). You can also change the digital map (as shown below):



(12). Options: Through windows explorer, users can conveniently search files if needed.
Wed., Jan 25, 2006 AM11:52:45
Free Space 110467M Camera 1
Date, time, free disk space, information panel,

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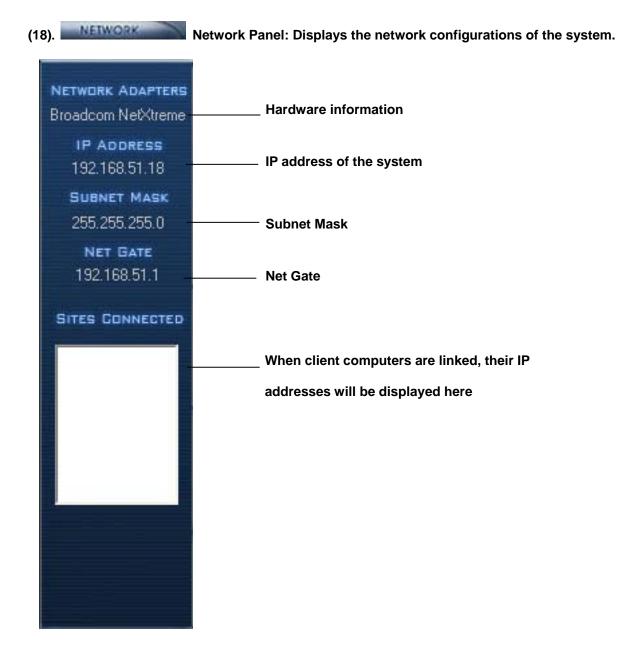
information and status window: shows current date, current time, day of the week, free hard disk space and description of the camera in the current window.

(14). Emergency record button: This button triggers the recording of all cameras for 30 seconds; even if they have been setup to record by motion, sensor, or time period. This function is useful in an emergency where a quick action is required.

(15). Manual record button (on/off): Allows users to record manually any camera regardless of its recording mode. Click the button again to stop recording.

(16). Camera Sequencing: Window split auto switch. It will sequence through all channels.

(17). Capture Image: Allows the user to save a still image of a selected camera in live mode onto the hard disk. The image can later be reviewed and printed.



(19). **PTZ CIRL** PTZ control panel:



Relay (on/off): Controls the PTZ cameras internal relay (relay 1) or the decoders relay (relay 1). Used to turn on a light or control an access

gate.

Wiper (on/off): If using the PTZ cameras corresponding wiper control

relay, this toggles the relay/wiper on and off.

Iris+: Overrides the PTZ cameras auto iris and allows one to brighten the image.

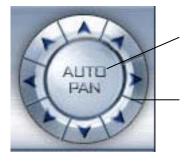
Iris- : Overrides the PTZ Camera's auto-iris, closing it and darkening the image.

Focus +: Overrides the auto-focus setting of the PTZ camera, allowing one to further focus the image.

Focus- : Overrides auto focus in the camera and allows user to make adjustments to camera focus.

Zoom +: Controls the zoom function of the PTZ camera.

Zoom - : Zooms out of image.

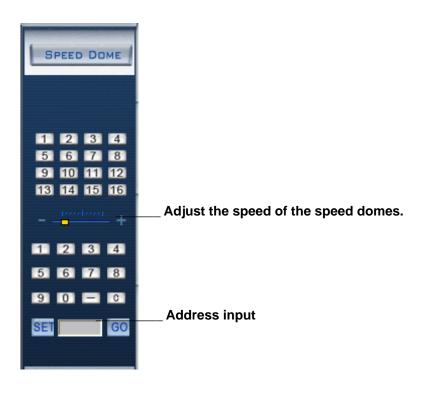


Auto pan: Pressing this button initiates an automatic tour of all preset positions by the connected PTZ camera.

By pressing and holding these buttons, the PTZ camera is moved up,

down, right and left as well as to the remaining selected quadrants.

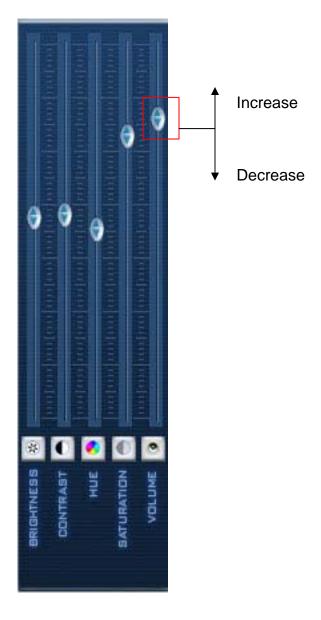
SPEED DOME Speed Dome: Turns the preset control panel on/off. When turned on, the following picture will appear. There are 16 preset points for the speed dome on the top. There is a numeric keypad on the bottom.



How to setup: set the speed domes to desired places (using the 'f" button). Then click the space for the address and input the address with the numeric keypad (take 3 as an example here). Finally press the button 'set' and the point for 3 will be bright. Set others in the same way.

If you want to know any information on the preset points, just input the number of that point in the space for the address and press the 'Go' button, or you can press the bright point. The dome will automatically go to that preset place.

(20). Color/Audio Adjust Panel: Slider adjusts the video image and recording volume of the selected channel. This also affects the live view of the video images.



It allows the user to adjust the image brightness, contrast, hue, saturation, and the volume (corresponding to the associated connected cameras).

(21). MATRIX - DISPLAY Matrix & Display panel: This panel includes the matrix group and the display Group. Each group includes 16 numeric buttons; each button denotes one type of matrix or display. This will be set up in "system setup" and will be explained later.

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Digital Input/Output Control. Manually control digital input/output relays

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3. System Configuration:



Click Settings in the main system screen to enter into the N-Patrol system set-up mode.

The N-Patrol System Configuration and Set-Up includes 7 types of configurations:



System set-up



Camera set-up



Sensor set-up



PTZ & Alarm set-up



Email Notification set-up



Digital Matrix set-up



User Password set-up

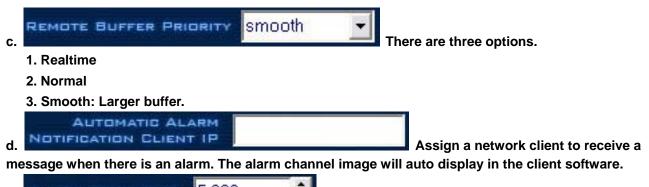


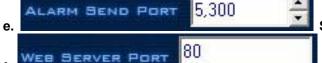


1	Set system parameter
a.	NUMBER OF CHANNELS 4 Total number of channels on your DVR.
b.	SENSOR INPUTS (DI) 16 Total number of sensors (DI).
c.	SENSOR DUTPUTS (DD) 8 Total number of alarms (DO).
d.	AUDIO MONITORING Disable I
e. ala	USE E-MAP Enable Select to display Electronic Map or not when there is an arm.

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f. DI/DD PORT Select sensor/alarm driver connecting port. It must be
different from the PTZ Port. If you do not use alarming input, you can close this function to save
system resources.
h. RECORDING DISK D:\ Select the main recording disk. DVR will record on
additional Hard Drive disks in alphabetical order. Drive letters prior the one
selected will not be used to record and will not be checked by the system.
Windows mapped network drives will also be used in the same alphabetical
order.
SAVE LOG FOR 30 2 DAYS
i. Number of days to save the Log file.
WHEN DISK IS FULL Overwrite Data -
j. Select recording mode when there is not
enough free Hard Drive space. If "Overwrite Data" is selected, the DVR systems will auto-delete
the recorded data of the earliest day when there is not enough space. If "Stop Recording" is
selected the DVR system will stop recording and give a warning message.
k. DATE FORMAT Sat, Jan 22,2006 Set the date format.
I. BYSTEM KEYSTROKES Allow When system keystroke is in use, functions of
some system keys will be disabled (Ctrl+Alt+del Included).
m. Select alarm device type.
TIME FORMAT PM 03:12:18
n. Set the time format.
ALARM BEEP Disable -
o. Select "disable" or "enable" from drop-down list. When
there is an alarm, the system will make a beeping sound.
//NETWORK SETUP
a. REMOTE CONNECTION Enable Select to allow a remote connection from
clients over the net.
b. REMOTE PORT 5,100 Select the remote client connection port.
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Select connecting port to send the alarm.

f. Setup the web server port. You can watch video remotely through Internet Explorer. The default web server port is 80, if you need to change it you should add the port number when visiting the server's video URL through Internet Explorer. E.g.:http://69.112.24.127:86



NOTE:

1. If the connection is successful, there will be a four partition blue window. However, If the connecting fails it could be for one of the following reasons:

- 1. The Web server port is being used by another program.
- 2. Your computer wasn't able to download the activeX player.

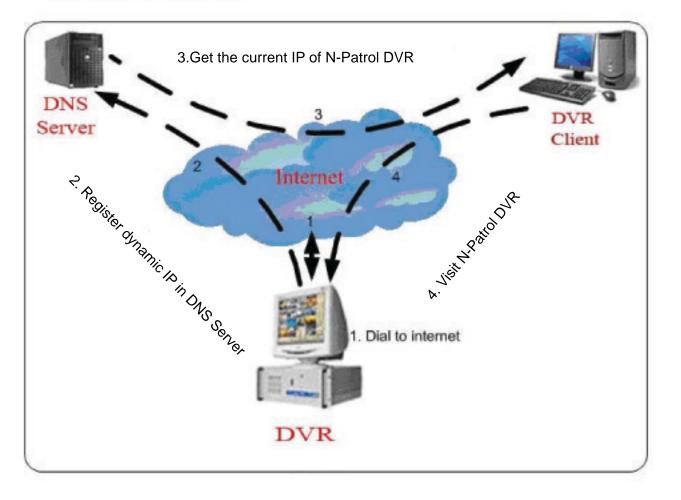
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The reason may be that the security setting on your computer is too high. Please allow activeX controllers to be downloaded.

2. If it shows a blue image window but has no response when you press the connect button or Internet Explorer comes up with an error, the reason may be that your computer has installed the old networks library version before hand. Please find these files on your computer's system path (C:\Winnt\System32): "dvrnet.dll, netchannel.dll, HikplayM4.dll, netcision.ocx, M4play.dll". Delete them and exit. Then enter the IE Client to try it again.

g. h.	USE DNS Disable Select to use DNS or not, or support dynamic IP.
Se	rver identification.
i.	DNS Server IP DNS server host IP.
j.	DNS CONNECTION 7,100 DNS server host port, provided to connect DNS
so	ítware.
k.	INTERVAL 120 SEC Automatic Interval connection time.

NOTE: The alarm auto connection to IP is used to trigger the alarm automatically. When using sensor, normal, or motion recording, and when it is set up and has an IP address here, the system will check to see if the client is connected to the system. If there is no connection, it will try to connect with it through Port 5300(default). If it cannot connect, the system will try again when the next alarm is coming. It will continue doing this until the connection is established, so please ensure that your client's program is connected, port 5300 is open, and the network is in good condition. If not, the system will not be stable.



NOTE: DNS server work mode:

1. If your N-Patrol DVR has a dynamic IP, you should configure your DVR system as follows:

USE DNS	Enable 💌		DVR office	
DNS SERVER IP	192.168.0.20	ONS CONNECTION PORT	7,100 🛨	CONNECTION TIME 60 SBC

2. DNS server will get your N-Patrol DVR's domain name and the current IP

DVR Register List		Update DVR List
Device Name	IP Address	Port
DVR119	192.168.0.119	5100
. 1		
•1		
		Close Window

- 3. N-Patrol clients get the N-Patrol DVR's current IP through DNS server according to the N-Patrol DVR's domain.
- 4. N-Patrol clients visit the DVR through the IP to get from the DNS server.

1	BOOT MODE For stability purpose, the system can be set to restart automatically.
a.	Exit to windows desktop.
b.	EXIT AND SHUTDOWN Exit and shut down the computer.
c.	CAUTO-SHUTDOWN C H C Select the auto shutdown time.
d.	AUTO REBOOT DATE (MON-SUN) 1 2 3 4 5 6 7 Select the
aι	ito-restart days.
e.	REBDOT TIME 0 + 0 + M Set the auto-restart time.



//CAMERA SETUP						
		SELECTED CAMERA	Camera01 💌	CAMERA DESCRIPTION	Camera01	
CAMERA TYPE	PAL 💌	DAMERA	Enable 💌	REMOTE FRAMERATE (FPS)	25	
BITRATE	Variable 💌	IMAGE SIZE	352 * 288 💌	REMOTE IMAGE SIZE	Same as Rec. 💌	
IMAGE QUALITY	Best 💌	FRAME RATE (FPS)	30 💌	REMOTE QUALITY	Best 💌	
OSD CONTRAST	Auto 💌	DBD Pos	TL-Corner 💌	MASKING BITMAP FILE		
RECORDING DAYS	Auto 💌	SWAP FILE (MB)	50	Сору Ветир то		
		//GR(JUP SETUP			
		SELECTED GROUP	Group01 💌			
SELECTED CAMER	Contraction of Station, such that	STREET, STREET	CONTRACTOR OF THE PARTY OF THE PARTY OF	14 115 116 117 118 119 20 2 39 40 411 42 43 44 45 4	AND TRACK TRACK TO THE TRACK TRACK	
PRE-EVENT RECO		a source of the second second second second second s	D TIME 5 Sec	RECORD AN		
//CAMERA SETUP Individual setup						
SELECTED C	a. Selected Camera Camera01 Select a camera from the drop-down list to set its					
parame	parameters.					
CAMERA DESCRIPTION Camera01 b. Input a camera description for easy						
identification.						
c. CAMERA TYPE PAL Select the camera type from the drop-down list. There are 2						
types of cameras: PAL and NTSC. Select one according to where you live. In North America NTSC is the standard.						
d.						

be triggered if a camera is enabled but not physically connected.

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Set the display frame rate for the

cameras on the client side. Select from 1 to 30 fps. When the image size was selected to be D1, the frame rate should be set to 12-15 frames per second. Otherwise, during playback, the video will

look jerky.



Set record mode. Variable Bit Rate (VBR) or Constant

Bit Rate (CBR) Recording. VBR allows each frame to go up or down, depending on the image complexity, activity, and color. CBR will throttle the bit rate to a fixed amount, regardless of the image activity. In many cases, this limits details (resolution). The benefit of CBR is the ability to accurately estimate the total amount of storage needed.

g. IMAGE SIZE 352 * 288 Set th

g. Set the image resolution. There is an option for "D1 Auto F", each channel can be set to "D1", but this "D1" is a not a real "D1" it is actually 4CIF digitally enlarged to D1. The system will select frame rate automatically (usually 12-15f/s).



Select image size to be transmitted to the client

side. When "Same as Rec." is selected it will use same settings as local recording.





Sets the recording rate for the selected camera in

Frames per Second (fps). Select from 1 to 30 fps. When the image size was selected to be D1, the frame rate should be set to 12-15 frames, otherwise, during playback, the video will look jerky.



Display brightness & position. There is an "auto" option. This option makes the OSD contrast match the background's color automatically.

MASKING BITMAP FILE	Watermark feature: Select a .bmp
---------------------	----------------------------------

file. It should be less than 128 X 128 pixels. It overlaps the video.

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n. This option allows the operator to determine how long the recorded data of each camera should be kept in the system. The maximum duration for on-line storage is 120 days. The system operator can select a definite number of days, or "auto" mode. If "auto" is selected, the systems will auto-delete the oldest recorded data when there is not enough space.

NOTE: If there is not enough HD space, the system will delete the recorded data according to the selected saving days of each camera.

E.g.: There are four cameras, the 1st camera saves 2 days ,the 2nd camera saves 5 days, the 3rd camera saves 10 days, and the 4th camera is set to "auto" mode. If there is enough space, the 4th camera's recorded data will be saved but when there is not enough space, the system will delete the data automatically. If the 4th camera records data for more than 10 days worth, the system will delete the 4th camera's data. If the 4th camera records data for less than 10 days, but the 3rd camera's data is already 10 days, the system will delete it first. So, even if you set the 3rd camera to record data over 10 days, but it's less than 10 days, it is possible that the system will delete the oldest recorded data.



Sets the size of the recorded video clips saved on the

HDD. For easy backup, don't set a file size too large.

	COPY SETUP TO	ALL	-	COPY
р.				

Copy settings of selected camera to all other

cameras.

TIPS:

1. Anytime that you are using less cameras than the DVR can handle, many of them will have no pictures and an alarm will appear and beep to tell you some video information is missing. If you set the cameras with no picture as "disabled" the alarm will disappear. When you want to use them later, just set them as enabled.

2. The swap file should be in MB. Just write down the number in the box.

E.g.: If you write down 30, a new file will be created when the video reaches 30MB. 2-50 is the allowed range.

3. Set the position and contrast of the date shown on the screen. Sometimes the date cannot be clearly seen if its color is too similar to the background. You can change its position or color at this time.

4. Variable digital rate table

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Image quality	recording environment	Used disk space (/com/hour)
Lowest	Low action	about 45mb
	High action	about 95mb
Medium	Low action	about 70mb
	High action	about 180mb
Best	Low action	about 160mb
	High action	about 320mb

NOTE: Invariable digital rate will not improve image quality but it is helpful to predetermine disk space. Variable digital rate recording is recommended.

//GROUP SETUP

Cameras can be grouped to work according to your needs.

NOTE: If you setup groups with conflicting cameras, then only the last setup will work.

a.	SELECTED GROUP	Group01	Select	a group numbe	r.	
	SELECTED CAMERAS		the second secon	Contraction of the local division of the loc		
b.		26 27	28 29 30	31 32 33	Select the cameras t	hat have

the same work mode to group.

C. PRE-EVENT RECORD 5 Sec

Select the start time to record when there is an

alarm. When the DVR system is in Motion Detect mode or Sensor Detect mode, it can record video before the alarm is triggered.

5 Sec POST RECORD TIME d.

Select the end time of record when there is an

alarm. When the system is in Motion Detect mode or Sensor Detect mode, it can record video after the alarm stops.

	RECORD AUDIO	No	+	
e.		1000		Se

Select whether or not to record audio.

Schedule Setup (Example for the following figure)

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	h	IORM	IAL R	ECC	DRD			SE	NSO	RR	ECO	RD			ма	тю	N RE	COR	2			ON DI OR R	R ECOR	D		Dor	IOT R	ECORD
	0	1	2		3	4	5	6		7	8		9	10	1	1	12	13	14	15	16	17	18	15	20	21	22	23
SUN																												
MON																												
WED																												
THU										. 1																		
FRI																												
SAT				11		11			TT									TT				11						

TIPS: One block means half an hour. First click the record mode icon, then click the schedule diagram. By holding down the mouse and moving, larger areas can be selected (Drag & Drop).

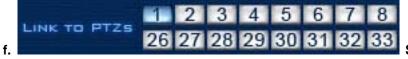
- a. Normal Record (green): DVR System is always recording video. (e.g. Sun. Fri. Sat.)
- b. Sensor Record (red): DVR System begins to record video only when there is a sensor alarm. (3:30 to 11:00 in Tue. Wed. Thu.)
- c. Motion Record (blue): DVR System begins to record video only when it detects a moving object. (e.g. Mon.) Click the "Motion Detect" icon, and then select your schedule time by drag & drop. For example, the above picture means: Monday is motion detection record, Sunday is normal record, but in TUE, WED and THU from 3:30 to 11:00 is sensor record, 14:00 to 22:30 is motion detection record mode and sensor detection record mode, and the rest of the time is normal record.

NOTE: The time setting must correspond with Check Alarm settings in SENSOR SETUP, otherwise it won't work properly.

- d. Motion or Sensor Record (yellow): Combines b and c functions.
- e. Do Not Record (gray): DVR System doesn't record video.

3.3 Sensor setup:
//SENSORS SETUP
BELEOT BENSOR SENSOR SENSOR SENSOR SENSOR POSITION
ACTIVATE PTZ PRESET Preset01 PLAY ALARM SOUND
LINK TO PTZ5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
GROUP SETUP
GROUP Group01 V SENSOR TYPE N/C VRITE ALARM LOG Disable V
ALARM ACTION AFTER IT TIMES-OUT: 💽 STOP IMMEDIATELY 💿 DO NOT STOP 💿 WAIT 👖 🚆 SECS. THEN STOP
SENSOR INPUT 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
START RECORDING 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 CAMERAS 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
TRIGGER DUTPUT RELAYS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
//SENSORS SETUP
a. To set the parameters for a sensor, select the camera from the drop-down list.
b. Enable Select to use this sensor port or not.
C. SENSOR POSITION Enter the description for easy identification.
d. ACTIVATE PTZ PRESET Preset01 Select the linkage Speed Dome preset No.
Speed Dome will auto-move to this preset No. when there is an alarm. (Requires Speed Dome
installed).
e. PLAY ALARM SOUND Test
Select a way sound for a sensor. When there is an alarm, the sound will play

Select a .wav sound for a sensor. When there is an alarm, the sound will play.



Select which Speed Dome responds

with this sensor alarm.

GROUP SETUP

Sensor group setup is very similar to the camera recording Setup Screen for groups.

a. GROUP Group01 Select a grou	ıp.
BENSOR TYPE N/C Sele	ect N/C or N/O alarm type.
C. WRITE ALARM LOG Disable	Select whether to write an alarm log or not.
ALARM ACTION AFTER IT TIMES-OUT: O STOP IMMEDIATELY	🗇 DO NOT STOP 🜔 WAIT 🔢 🚔 SECS. THEN STOP

Select an alarm mode after an alarms time-out. "Stop Immediately" means the system stops the alarm immediately after the sensor is off. "Do Not Stop" means the system doesn't stop an alarm after the sensor is off. "Wait" means the system will stop the alarm after the time you set.

Add sensor to the selected group.

Select which cameras respond

with this sensor group. They will start recording and will auto connect to the remote network client when there is an alarm.

```
g. TRIGGER DUTPUT RELAYS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
```

Add alarm devices (alarm out port) to this group. e.g. siren, light. All connecting devices will send an alarm message when there is an alarm.

Schedule Setup (Example for this image)

			Сне	ск Э	IENS	iDR				D		10T C	HED	K SEN	SOR											
	0	1	2	3		4	5	6	7		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
SUN																										
SUN MON				n - 10																						
TUE WED		10																								
WED																										
THU																										
FRI																										
SAT																										

a. Check Alarm (red): DVR System responds with sensor at this time. (00:30 to 12:00 in Sun. to Fri.)b. Do Not Check (gray): DVR System doesn't respond to sensor at these times.

NOTE: If you setup the groups with a conflicting camera, then only the last setup is going to work.



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	//F	PTZ SETUP
Selected Camera	Camera01 💌	
PTZ PROTOCOL	Yaan(H)	TZ ADDRESS 1
PTZ BAUDRATE	4800 💌	PTZ POSITION Obverse
// Мотіо	N DETECTION REL	LAY CONTROL / REMOTE CLIENT ALERT
Do Port	D001 🗾	DD PORT NAME DO-1
MOTION DETECTED IN CAMERA	Camera01 💌	BEND ALARM TO CLIENT DISABLE
PLAY ALARM SOUND		Test
TRIGGER DO OUTPUT	1234	5 6 7 8 9 10 11 12 13 14 15 16
//PTZ SETUP		
SELECTED CAMERA C	amera01	To set the parameters for a camera, select the
camera from the drop-down list		To set the parameters for a camera, select the
b.	Select	t the appropriate port.
C. PTZ PROTOCOL Yaan	(H)	Selects the protocol for the PTZ camera.
PTZ ADDRESS 1		llows the installer or user to set the camera ID number

corresponding to the PTZ camera being controlled.

NOTE: The PTZ camera typically has a bank of dip switches that allow you to set the PTZ address. Both the PTZ camera ID number and the selected number in this box need to match.



resulting video image be flipped or inverted, thereby allowing the control to be synchronized with the camera direction.

NOTE:

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1. PTZ position will influence the PTZ control. e.g.: if you set it as an obverse and press left, then it will turn left. If you set it as the inverse and press left, then it will turn right.

2. If there is (H) after the PTZ protocol, it has the function of a high-speed Preset. If there is no (H), then it only has the function of PTZ control.

3. The PTZ address here is the one that the system will send the orders to. Take note that some of the addresses begin from 0 and when the address number is 1, the real address should be 0. If you set 1 and the order sent out is 1, which is different from the real address, the device will not function. At this time, you should set the address number as 2.

// MOTION DETECTION RELAY CONTROL / REMOTE CLIENT ALERT

A. DO PORT DOOI T DO PORT NAME DO-1

DO Port Name: Enter a description for the DO Port. If the alarm input is in use and there is an alarm in these cameras, then the alarm will be sent to the client automatically. The client only connects to the cameras with alarms.

b.	MOTION DETECTED IN CAMERA Camera01 -		
c.	Select whether to send an alarm t	o th	e
ne	twork client or not.		
d.	PLAY ALARM SOUND		Test

Select a ".wav" sound file for a camera alarm. When the alarm is triggered, the sound file will be played.

E TRIGGER DD DUTPUT 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Select which DO ports respond with the alarmed camera. All connecting devices will send alarm messages when there is a Motion Detection.

Schedule Setup (Example for below figure)

		CHEOK MOTION DO NOT CHEOK MOTION																										
	0		1	2		3	4		5	6	7	8	9	T	10	11	12	13	14	15	16	17	18	19	20	21	22	23
STIN						100																						
M0.	N								П					Г														
TUE								12			191																	
WEI	2																											
THU	1																											
MO TUE WEI THU FRI SAT																												
SAT																												

a. Check Alarm (red): DVR System responds to Motion Detection and sends alarm messages only at the selected time. (Every day 00:00 to 13:00)

b. Do Not Check (gray): DVR System doesn't respond to Motion Detection at this time.

NOTE:

- 1. The time setting must correspond with the Motion Detect time of the CAMERA SETUP, otherwise it will not work correctly.
- 2. Check Alarm Setting does affect the Motion Detection Record. It is only an alarm setting. It takes affect on motion detection alarm out and motion detection alarm to network.

	//SMTP SETUP	
SMTP SERVER	SMTP PORT 25	AUTH.TYPE Simple Login 💌
LOG-IN USER ID	LOG-IN PASSWORD	
//E	EMAIL NOTIFICATION SE	TUP
SEND TO		
COPY TO		
SENDER EMAIL		
EMAIL BOREENSHOT AS ATTACHEMENT	sable 👤	
SEND NOTIFICATION FROM CAMERAS (SC	CREENSHOT FROM ALARMED CAMERA)	
	8 9 10 11 12 13 14 15 16 3 34 35 36 37 38 39 40 41	17 18 19 20 21 22 23 24 25 42 43 44 45 46 47 48
SEND NOTIFICATION FROM SENSORS (SC 1 2 3 4 5 6 7 8	DREENSHOT FROM LINKED DAMERA)	
SMTP SERVER	SMT	^o server address.
E.g.: mail.yourdomain.com		
SMTP PORT 25	SMTP TCP's	port for the connection request.
C.	To login to the ma	ilbox, the operator will select the SMTP
authentication type. The operator car	n select "simple login".	
LOG-IN USER ID	Ма	ilbox's ID.
PASSWORD	Mailbox pass	word.

3.5 Alarm send email setup:

//EMAIL NOTIFICATION SETUP

BEND TO
Recipients E-mail address.
b.
Secondary recipient E-mail address.
C. SENDER EMAIL
The operator's email address.
d.
will grab a picture, and the operator can choose to send the picture as an attachment.
Send Notification FROM CAMERAS (Screenshot FROM ALARMED CAMERA) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42
Operator can select which cameras send email.
SEND NOTIFICATION FROM SENSORS (SCREENSHOT FROM LINKED CAMERA)

Operator can select which sensors send email.

3.6 Digital matrix setup:

//DIGITAL MATRIX SETUP
MATRIX GROUP SetGroup1 MATRIX GROUP SetGroup1 VIDEO OUT PORT Video Out01 VIDEO OUT STANDARD PAL VIDEO OUT STANDARD PAL VIDEO SWITCH INTERVAL (SEC) 9 SEC VIDEO SPLIT MODE 4 Split VIDEO WINDOW Window1 DISPLAY VIDEO CAMERAS Camera main channel
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
//DISPLAY SETUP
DISPLAY GROUP SetGroup1 VIDEO SPLIT MODE 16 Split VIDEO SPLIT MODE 16 Split DISPLAY CAMERA IN WINDOW Image: Set Group 1 Image: Set Group 1
A. MATRIX GROUP SetGroup1 Cameras can be organized into groups to matrix video out. Each group has a different display mode. There are 16 groups in total.
b. Matrix video out channel. How many channels
depends on the Matrix Decoder Card.
c. VIDED OUT STANDARD PAL Matrix video out standard: PAL or NTSC. VIDEO SWITCH INTERVAL (SED) 9 SEC Time Interval in which each window shows the cameras circulatory when they have more than one camera in one window.



1 split ¹ , 2 split ¹ , 4 split ¹ VIDED WINDOW Window	$\begin{array}{c} 2\\ 4\\ 4\\ \end{array}, 9 \text{ split} \xrightarrow[7 \ 8 \ 9 \ 9 \ 9 \ 9 \ 9 \ 1 \ 3 \ 9 \ 1 \ 3 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1 \ 1$
DISPLAY VIDED CAMERAS IN WINDOW	Camera main channel 🗾
the second se	5 6 7 8 9 10 11 12 30 31 32 33 34 35 36 37

After selecting the video split mode, there will be a corresponding display video window, select one or more cameras to show in a window.

NOTE: One camera will only be shown in one window at once.

//DISPLAY SETUP
a. DISPLAY GROUP SetGroup1 Cameras can be organized into groups to
display video out. Each group has a different display mode. There are 16 group sets.
b. VIDED SPLIT MODE 16 Split Video out display mode. The split mode is the
same as the main window's display split mode. 1,4,9,12,16,20,25,28, 33,36,40,49 partition.
c. VIDED WINDOW Window1
DISPLAY CAMERA IN WINDOW
2 3 4 5 6 7 8
26 27 28 29 30 31 32 33

After selecting video split mode, there will be a corresponding display video window, select a camera to show in a window.

NOTE: Only one camera can be shown in one window at a time, but each camera can be displayed in any window.

E.g.: The 1st camera is displayed in window1, and the 2nd camera is displayed in window2. When there is a change in the 1st camera, it will be displayed in window2; the 2nd camera will be exchanged to window 1 automatically.

_

		//USERS INFO	RMATION	
USER PASSV	Disable			
SELECT U	ISER admin	USER NAME admi	n Pas	SWORD
RIGHTS L	evel Manager	FULL NAME		DNFIRM SWORD
	26 27 28 29 30 Mera 1 2 3 4 5	6 7 8 9 10 11 12 31 32 33 34 35 36 3 6 7 8 9 10 11 12	2 13 14 15 16 17 18 19 7 38 39 40 41 42 43 44 2 13 14 15 16 17 18 19	4 45 46 47 48 9 20 21 22 23 24 25
	26 27 28 29 30 Mera 1 2 3 4 5	6 7 8 9 10 11 12 31 32 33 34 35 36 3 6 7 8 9 10 11 12	2 13 14 15 16 17 18 19 7 38 39 40 41 42 43 44	4 45 46 47 48 9 20 24 22 28 24 25 4 45 46 47 48
	26 27 28 29 30 Mera 1 2 3 4 5 26 27 28 29 30	6 7 8 9 10 11 12 31 32 33 34 35 36 3 6 7 8 9 10 11 12 31 32 33 34 35 36 3 31 32 33 34 35 36 3	2 13 14 15 16 17 18 19 7 38 39 40 41 42 43 44 2 13 14 15 16 17 18 19 7 38 39 40 41 42 43 44	4 45 46 47 48 9 20 21 22 23 24 25
SEARCH CAN	26 27 28 29 30 MERA 1 2 3 4 5 26 27 28 29 30	6 7 8 9 10 11 12 31 32 33 34 35 36 3 6 7 8 9 10 11 12 31 32 33 34 35 36 3 31 32 33 34 35 36 3	2 13 14 15 15 17 18 19 7 38 39 40 41 42 43 42 2 13 14 15 16 17 18 19 7 38 39 40 41 42 43 44 7 38 39 40 41 42 43 44	4 45 46 47 48 9 20 21 22 23 24 25 4 45 46 47 48
SEARCH CAN	26 27 28 29 30 MERA 1 2 3 4 5 26 27 28 29 30 ✓ PTZ CONTROL ✓ SEARCH LOG	6 7 8 9 10 11 12 31 32 33 34 35 36 3 6 7 8 9 10 11 12 31 32 33 34 35 36 3 31 32 33 34 35 36 3 ✓ Adjust Color ✓ Open E-Map	2 13 14 15 16 17 18 19 7 38 39 40 41 42 43 42 7 38 39 40 41 42 43 42 7 38 39 40 41 42 43 44 7 38 39 40 41 42 43 44 Modify Network Modify Network	4 45 46 47 48 9 20 21 22 23 24 25 4 45 46 47 48

Creates user accounts based on administrator or operator privileges.

//USERS INFORMATION
a. Check to enable Password Protected mode and
activate the lock button in the main window. Only authorized users can log into the N-Patrol
System.
BELECT USER admin Select the user to modify from the drop-down list.
c.
user to the system.
d. PASSWORD Set new user's or selected user's password.
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e. users or change the DVR settings.	Select user type. Only Administrator can add/modify
FULL NAME	Input the full name of this user for reference only.
CONFIRM g. PASSWORD	Retype password to confirm it.

a. View Camera: By default, every user is granted access to view live video. To deny access, click on a camera button, and the blue button changes to gray.



//USERS RIGHTS SETUP

b. Search Camera: Rights to view recorded video for each camera. By default, every user is granted access to the recorded video for all cameras. Granted rights are highlighted in blue, and denied access displays in gray (the same as View Camera).

c. User Access Rights: Select operational tasks (granting or denying rights). Operational tasks are normally reserved for administrative, or privileged accounts. Operators are rarely granted rights to adjust camera color, exit program, explore files or operate PTZ controls.

	PTZ CONTROL	ADJUST COLOR	MODIFY NETWORK	V DELETE FILES IN SEARCH
USER ACCESS RIGHTS	SEARCH LOG	V DPEN E-MAP	MOTION SETUP	
	OPEN EXPLORER	DO CONTROL	MATRIX CONTROL	V EXIT PROGRAM

d. Setup Rights: Select setup rights to grant or deny user privileges.

SETUP RIGHTS	SYSTEM SETUP	CAMERA SETUP	SENSOR SETUP	ALARMS & SETUP
	EMAIL SETUP	DIGITAL MATRIX		

ADD USER Add new user button: Maximum quantity is 16 users in one system. Click icon to e. add new user. The cursor will enable the "user name" box. Input User Name, Full Name,

Password, and Confirm Password. Select Manage Right (Administrator or Operator), then press "save

& Return" and select "Yes" to save changes.

DEL USER

Delete user button: Select user from drop-down list, then click Delete User.

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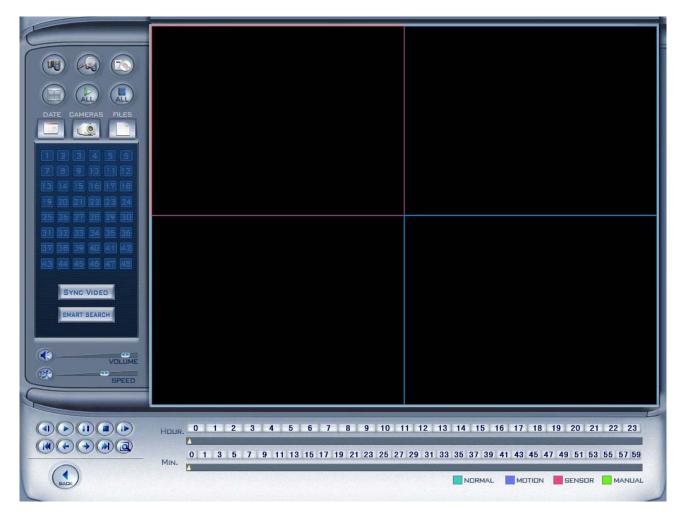
4. System play back

4.1 Enter play back Mode:

In main the window click the playback button



to enter the playback window.



4.2 Select play back channel: Click on the channel number on the right panel. The DVR system will play back recorded data from the beginning of the current day.



A highlighted channel number means that the channel has recorded data. Click the desired channel number to search the camera.

TIPS: Right click the window for full screen.

Select one window (the 1st one is default), click the channel number and playback will begin. Different colors will show information of all cameras. You can see all kinds of records, as well as their time and length according to the color. You can choose to play some recorded data by clicking on the timeline.

Playback window: A maximum of 16 windows can be shown in the server and the client.

4.3 Capture picture:

Click the capture button voi to capture a displayed image. When one is captured, there will be a dialog box displayed asking you to input a file name. After you press the confirmation, you will be asked to input the path.

NOTE: The size of the image is the same as the playback window.

4.4 Create clip file:

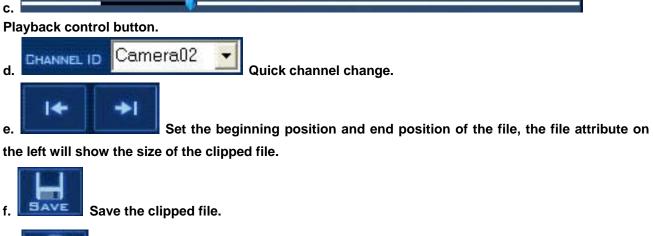


Click the create clip button

to enter the window of create clip file:



AV410, 40,1.4 AV410, 40, 40	
AM10:43:14 - AM10:43:46 PM02:40:05 - PM02:40:14	
	File list, calent one file and double aligh it, this file will be played
	File list, select one file and double click it, this file will be played.
FILE ATTRIBUTES	
BEGIN TIME PM02:40:05	
Begin Time PM02:40:05	
Begin Time PM02:40:05 End Time PM02:40:14	
Begin Time PM02:40:05 End Time PM02:40:14 File Bize 146 KB	
Begin Time PM02:40:05 End Time PM02:40:14 File Size 146 KB Frame Rate 10 fps	
Begin Time PM02:40:05 End Time PM02:40:14 File Bize 146 KB Frame Rate 10 fps Resolution 352 * 240	Information of the current file, including begin time, end time, file





Burn the clipped file.



Voice control, press to mute sound.

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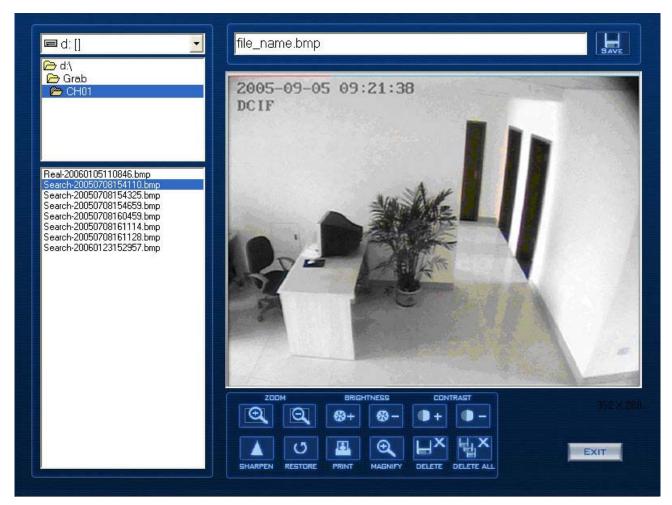
Click to Search for a file.

4.5 Search captured picture:



Click the search images button

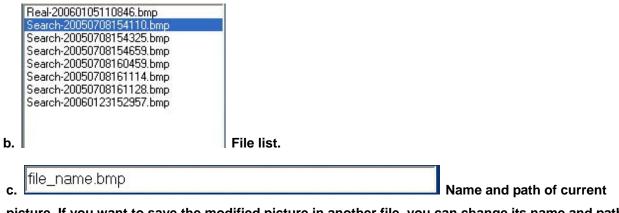
to enter the search window:





Directory list.

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picture. If you want to save the modified picture in another file, you can change its name and path

here, with .bmp and .jpg as the extension. Then click the save button

d. Save the modified picture.





f. **RESTORE** Undo changes to the modified picture.



g. **FRINT** Print picture: When the image is wider than 400 pixels, it will be printed smaller. Otherwise it will be enlarged.



MAGNIFY Magnify function: Highlight the part of the image to be enlarged.



DELETE Deletes the current file or all files.



Window split button: On the server version you can get 1, 4, 9, and 16 splits. On the client version you can get 1, 4, and 9 splits.

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Play All button: Opens all playback windows according to the order of the cameras.

ALL

Stop All button: Closes all of the playback windows.

4.6 Fast Search:

Click the date button



ito show the date panel:

The blue dates contain recorded data. The blue date is the current date. The gray dates signify no data. Only the green ones can be selected. When selected, the camera's windows will appear automatically to show the recorded data.

Click I or I to change month and year of search data.

4.7 Camera state:

Click the cameras button to show the cameras state. If the number is bright, it means there is recorded data.

_	VIDE	_	

Sync Video: When you are have more than one camera playing back, clicking this button will synchronize the date and time of all the displayed cahnnels..

SMART SEARCH

The Smart Search allows you to draw a zone on a video image and perform a search based on any motion, missing object, or unattended object events occurred within that zone. It lets you find these changes fast. Pressing this button will start the smart search and show a search area. The system will play all motion occurred within this area. The

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system will play the previous 3 seconds and the following 3 seconds of the motion that occurred. Another click will end smart search.

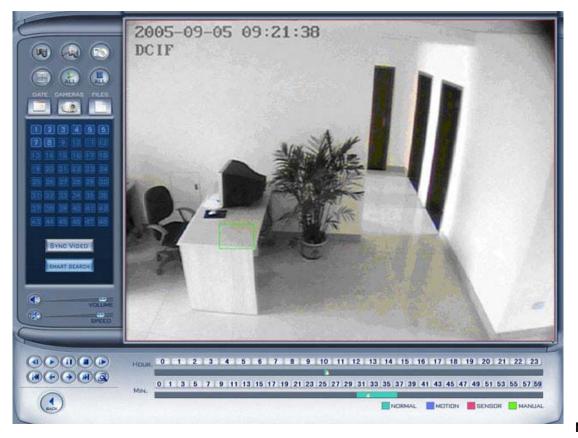
E.g.:



1. There is a telephone on the desk (picture A).

2. But it disappears (picture B).

3. If you want to know when this happened, you can specify an area on the image when playback occurs.



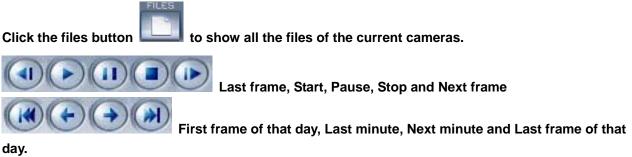
NOTE:

If the Sync Video button is clicked when running a smart search, the system will end it.
The sensitivity of the smart search acts the same as the motion detection. If you set up a high sensitivity level, it will search all possible situations where there was motion in the specific area. If you setup a low sensitivity level, it will not search possible situations where there was some

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minimal motion detected in the specified area. Therefore, you must setup the sensitivity according to the surrounding areas.

4.8 Showing files:



Zoom: Press this button, then single click the left mouse button on an image; quarter of the image will be enlarged. Afterwards, single click the right mouse button on the image, and it will go back to its original state.



Adjust the volume: Click icon to mute.

Adjust playing speed: Click icon to resume normal playback

speed.

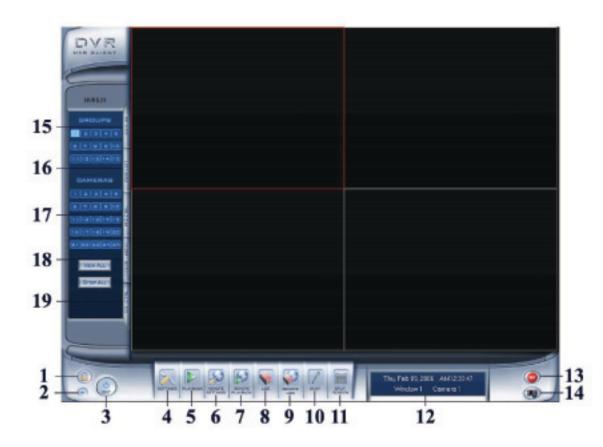
NOTE: Multi-channel search in client and server are the same except their paths. In client there are local and LAN searches. In a LAN search, it searches among the recorded data in the local network of the server.

Chapter 2 DVR Client

1. Start up:



After correctly installing the DVR Client software, a shortcut icon will be placed on your windows desktop. Double click it to run DVR Client, the main window looks like the follow picture:



2. Main window:

- 2.1 Show tips: When the mouse moves closely or stops at a button, the button's function text tip will show immediately.
- 2.3 Full Screen Mode: Right click the screen to change the display mode to full screen, right click again to turn back to normal. At the most, 49 video windows can be shown on the main window at the same time. To view one of the windows exclusively, double click that particular window. To go back to viewing them all, double click again.





Select one server at a time from the dropdown list (the servers in the dropdown list are the ones that have been registered in the client), click "OK" and enter the playback UI.



Remote Playback mode is almost the same as the Local Playback. The only difference is that the



"Create Clip" feature is added. During playback you can click this and system will save the video of the current channel you have selected. You will be prompted to specify where to save the file.

Next we will describe the functionality of every control button of the system.

1. Lock Program: Locks keyboard and mouse preventing unauthorized users to operate the system. If you do not check "use password management," it will be unavailable. Click this button to switch the user and prevent exiting the program.

2. 🔛 Minimize button: Minimize the main window.



Exit program: When you click this power off button the following dialog box appears:



Click "OK" to quit the N-Patrol client end.

- 4. 🥂 Enter setup
- 5. Enter playback mode: Allows users to enter playback mode and search for recorded

video/audio from the local host. This works the same as the server.



Remote setup: Allows the client user to setup the server's parameter from a long distance.

Select a server from the drop-down box. If the user has the right to setup the server that they are connected to, the setup window will be displayed (the remote setup is the same as the server). If there is no video signal, this function will be unavailable.

8.

Local log: Open the working log panel. The functions of the buttons are the same as the

server.

and the second	SYSTEM LOI	3		
		_		
2006-02-09 12:52:21	Window02 Connection			
Succesful			SEARCH DATE	
2006-02-09 12:59:04	Enter local search		2/ 9/2006	-
2006-02-09 13:36:12	Enter local search		2/ 0/2000	
2006-02-09 13:36:44	Enter local search			
2006-02-09 13:39:57	Enter one-way remote		PARAMETERS	
search				-
2006-02-09 13:40:40	Enter one-way remote		operation	-
search	157		10. The second s	67
2006-02-09 13:41:05	Enter one-way remote			
search	1.54			
2006-02-09 13:41:47	Enter one-way remote			
search				
2006-02-09 13:42:00	Enter one-way remote			
search				
2006-02-09 13:48:12	Enter one-way remote	=		
search				
2006-02-09 13:49:38	View System Log			_
2006-02-09 13:49:55	View System Log			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SAVE	XIT
		~		



9. **We are a set of the server** and the server's log remotely. You can see all of the information of the server

you are connected to.



Starts remote chat with the connected server. Sound card with mic input should be used. If

there is no sound card on either side, the chat will not work.

11. Split Screen: The window display mode of the main screen. There are many types of the partition, including 1, 4,9,12,16,20,25 partition. Select the suitable partition according to the connect video.



12.

Information Panel: shows the day of the week, current date, current time, and description of the camera on the current window.

Manual record button (on/off): Allows users to record anytime to any camera. Capture Image: Allows the user to save a still image of a selected camera in live mode onto the hard disk. The image can later be reviewed and printed. GROUPS 15. Groups: Displays the information of a group and camera. GROUPS 2 3 4 5 There are 15 preset groups and you can choose any group to connect the 25 windows. CAMERAS VIEW ALL to connect all of them. When connected, the You can also click number buttons will be bright. VIEW ALL STOP ALL DVR LIST 16. The DVR List lets you select a camera from a specified server. PTZ CTRL 17. The PTZ control's function is like the server's PTZ control; please refer to server. COLOR - AUDIO This panel's function is like the server's Color/Audio adjust. Please refer to 18. server. DO CTRI 19. Click it to open DO panel to control the DO device connected to the server. If

there is no DO device, this button will no not do anything.

3. Setup

3.1 System and Server Connection Setup:

			//SYSTE	M SETUP				
	IN IS FULL OVERWIT	ite Data 💌		, D	-			
	Disable			Page 5,300	*	WER PORT	0	
	Disable	• •		Loss Disable	Use M	ATRIX CARD	isable 💌	1
			SERVER D	ONNECTION				
PAlas	PAddress	Disp. Part	Login User	Login Pass	Device Type	Use Drs?		
PC_DVR Embedded bed	69.112.24.127 69.112.24.127 192.168.0.3	510D 8000 8000	admin admin admin		PO-Based DVR Embedded DVR Embedded DVR	no no no		
	IR NAME			PC-	Based DVR 💌	_		
	ODREBS		NUMBER O	CAMERAS 16			App	
					-	_		
	5100 Store		USE ONB	NO GEV IP 10		_	MODIFY	
				_			Mabiry	
				1 YO GEY IP 80	2		Delete	
	III NAME			_				
	III NAME			BERVER IP				
	III NAME			BERVER IP				
LOON UN	IN NAME			BERVER IP				
LOON DW	IN NAME	тир		BERVER IP				
LOON UN	IN NAME	тир		BERVER IP				
LOON UN				BERVER IP				
		TUP rerwrite D	ona ona sa ato 🗸	Server Port 7100			DELETE	
			ona ona sa ato 🗸	Server Port 7100			DELETE	not enough
L0844 USH L0944 PA		erwrite D		elect local	recording mo	ode. When	othere is	
E DISK IS d Drive sp		erwrite D rwrite Da	ato 💽 S ta" is sele	elect local interest of the Directed, the Directed of the Dire	recording mo	ode. When will auto-o	othere is delete the	e oldest dat
LOSEN PA LOSEN PA SYST F DISK 19 d Drive sj en there n	EMSE FULL OV bace. If "Ove ot any space	erwrite D rwrite Da	ato 💽 S ta" is sele	elect local interest of the Directed, the Directed of the Dire	recording mo	ode. When will auto-o	othere is delete the	e oldest dat
F DISK 19 d Drive sp en there n		erwrite D rwrite Da	ato 💽 S ta" is sele	elect local interest of the Directed, the Directed of the Dire	recording mo	ode. When will auto-o	othere is delete the	e oldest dat
F DISK IS d Drive sp in there n a warnin	EMSE FULL OV bace. If "Ove ot any space og message.	rwrite D rwrite Da e left. If "S	ato 💽 S ta" is sele	elect local interest of the Directed, the Directed of the Dire	recording mo	ode. When will auto-o	othere is delete the	e oldest dat
LOSH PA	FULL OV bace. If "Ove ot any space og message.	rwrite D rwrite Da e left. If "S	ato S ta" is sele Stop Reco	elect local i ected, the D rding" is se	recording mo VR systems elected the D	ode. When will auto-o	o there is delete the n will sto	e oldest dat op recording
F DISK IS d Drive sp en there n e a warnin	EMSE FULL OV bace. If "Ove ot any space og message.	rwrite D rwrite Da e left. If "S	ato S ta" is sele Stop Reco	elect local i ected, the D rding" is se	recording mo	ode. When will auto-o	o there is delete the n will sto	e oldest dat op recording
F DISK IS d Drive sp in there n a warnin	EMSE FULL OV bace. If "Ove ot any space og message.	erwrite D rwrite Da e left. If "S	ato 💽 S ta" is sele Stop Reco	elect local o cted, the D rding" is se	recording mo VR systems elected the D	ode. When will auto-o	o there is delete the n will sto	e oldest dat op recording
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setup window of the server alarm auto input.

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e. WEB PORT 80. Setup the web server port. You can watch video remotely through
Internet Explorer. The default web server port is 80; if you need to change it you should add the port
number when visiting the server's video URL through Internet Explorer. E.g.:http://192.168.0.119:80
f. CONNECT TO SERVER Disable Connect to the server when alarm is set.
g. WRITE ALARM LOGS Disable I Enable/Disable writing log.
h. Use MATRIX CARD Disable Select whether to use a matrix card or not.
//SERVER CONNECTION
a. BERVER NAME Input any name that is easy to identify.
b. Select a PC-Based DVR Select a PC-Based DVR, a Streaming Server, or an Embedded
DVR (Non-PC-Based).
c. Berver IP Address The server's IP address.
d. NUMBER OF CAMERAS 16 Select the number of cameras being used.
e. Server's port.
f. Use DNS to get IP no Use DNS to get IP or not. If the server end has a dynamic IP
address, you need use DNS to get the server's IP.
g. LOGIN USER NAME LOGIN PASSWORD When the
client wants to connect to the server and the server has password protection enabled, the login user
where and account will be abacted of the same base and ensure whether the test of

name and password will be checked. If the user has not enough rights to view that camera, the connection will be shut down automatically. If password protection is not enabled the user name and password will not be checked.



NOTE: The client end can connect to another clients end, if this occurs, the IP address is another client IP, and the connect port is the same as the "Alarm send port".

3.2 Group setting:

Click this button

GROUPS to enter the following window:

Window	Server Name	Camera	Frame Rate	Record Mode	
Window1	Embedded	Camera01	Automatic	By Scheduled Recordi	
Window2	Embedded	Camera02	Automatic	By Scheduled Recordi	
Window3	PC_DVR	Camera02	Automatic	By Scheduled Recordi	
Window4	PC_DVR	Camera07	Automatic	By Scheduled Recordi	
Window5	aventura	Camera01	Automatic	By Scheduled Recordi	
Window6	aventura	Camera02	Automatic	By Scheduled Recordi	
Window7	none	Camera03	Automatic	By Scheduled Recordi	
Window8	none	Camera04	Automatic	By Scheduled Recordi	
Window9	none	Camera01	Automatic	By Scheduled Recordi	
Window10	none	Camera02	Automatic	By Scheduled Recordi	
Window11	none	Camera03	Automatic	By Scheduled Recordi	
Window12	none	Camera04	Automatic	By Scheduled Recordi	
Window13	none	Camera01	Automatic	By Scheduled Recordi	
Window14	none	Camera02	Automatic	By Scheduled Recordi	
Window15	none	Camera03	Automatic	By Scheduled Recordi	
Window16	none	Camera04	Automatic	By Scheduled Recordi	
Window17	none	Camera04	Automatic	By Scheduled Recordi	
Window18	none	Camera01	Automatic	By Scheduled Recordi	
Window19	none	Camera01	Automatic	By Scheduled Recordi	
Window20	none	Camera01	Automatic	By Scheduled Recordi	
Window21	none	Camera01	Automatic	By Scheduled Recordi	
Window22	none	Camera01	Automatic	By Scheduled Recordi	
Window23	none	Camera01	Automatic	By Scheduled Recordi	
Window24	none	Camera01	Automatic	By Scheduled Recordi	
Window25	none	Camera01	Automatic	By Scheduled Recordi	

Choose one preset group, altogether there can be 15 preset groups. In every group, you can set the parameters of the 25 windows. They are:

- a. <u>Server Name</u> Optional, if set to 'none', then you need to add the corresponding information of the connected IP in the IP setup window and then enter this section to select it.
- b. <u>Camera</u> Choose cameras to view from the DVR server 1-48.
- c. Frame Rate Realtime, auto and 1fps, they mean:
 - 1. Realtime: if it's selected, the server will send all compacted information to the client. When the client gets this information it will play it. Continuality is good using this method but it takes up much more CPU space. If there is no information loss when encoding and sending, the playback will be realtime.
 - Auto: the difference between auto and realtime is that when the client gets the information, it will cut some of the information and then play it. It will take up less CPU space this way. But if you click any of the cameras, it will be adjusted as realtime automatically.
 - 3. 1fps: This means to break down the information in the server. Only one frame of important information is sent to the client every second. It takes up little CPU space and network bandwidth, but there is only one frame of information every second. If you click any of the

cameras, it will be adjusted as realtime automatically when there is enough network space.

d. <u>Record Mode</u> When the client gets the information, he can choose whether or not to save it. The beginning disk is C:. When there is less then 1000Mbyte left, it will change the disk automatically. When there is no disk left, the recording will be stopped. Please check your disk space.

Every group has several partition modes: 1, 4, 9, 16, and 25. The operator can select the display mode according to the information of the connection.

3.3 Recording Schedule:

	//SCHEDULED	DRECORDING		
SELECT WINDOW window1		COPY SCHEDULE TO All windows COPY		
NORMAL RECORD	SENSOR RECORD			
0 1 2 3 4 Sun 7 Mon 7 Tue 7 Wed 7 Thu 7 Fri 8 Sat	5 6 7 8 9 1d	111 113 113 114 115 116 117 118 119 20 21 22 23 1		

a.	SELECT WINDOW window1	Select th	e window yo	ou wish to char	nge the settir	ngs for.
b.	COPY SCHEDULE TO All windo	ows 💌	COPY	Use this if y	/ou wish to	use the san

settings for another window, or all windows.

TIPS: One block means half an hour. First click the record mode icon, then click the schedule diagram. By holding down the mouse and moving, larger areas can be selected (Drag & Drop).

c. Normal Record (green): DVR System is always recording video.

d. Sensor Record (red): DVR System begins to record video only when there is a sensor alarm.

e. Motion Record (blue): DVR System begins to record video only when it detects a moving object. Click the "Motion Detect" icon, and then select your schedule time by drag & drop.

f. Do Not Record (grey): DVR System does not record.

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	//USERS SETUP		
Select User admin		d Management Disable	
USER NAME admin		PASSWORD	
RIGHTS LEVEL Manager	Cont	RM PASSWORD	
V LODAL SETUP	//RIGHTS SETUP	View LODAL LOG	
V LOCAL MANUAL RECORD	ADJUST COLOR	VIEW REMOTE LOG	
💙 REMOTE SETUP	REMOTE PLAYBACK		
Exit Program			
	ADD USER DEL USER		

3.4 User Management:

You can set user management in this window. If you use this function, you will have to input the user name and password and set up the corresponding rights.

//RIGHTS SETUP

User rights setup: Choose a user and assign the corresponding right.



NOTE: The quality of the images sent remotely can be improved by increasing the record quality on the server. If the record quality is better, the quality of the remote image will be better. Naturally, the data will be bigger, and the space taken up by the CPU will be larger and the frames per second shown could be reduced.

USER NOTES: