

Network Hardware Compression MPEG4 Stand Alone Digital Video Recorder



User Guide

Installation Guideline

A. Installation Environment

In order to ensure the safe using of the DVR product and maximize product performance, keep DVR product in normal condition, please notice the following remark while/ before install the product:

- a) Only use AV12V voltage supply, please check the power supply and make sure it is correct voltage before installation.
- b) Away from sloppy place or avoid exposing in the rain.
- c) DVR should be installed with horizontal position.
- d) DVR should be avoided to locate in shocking place.
- e) Avoid to expose DVR to direct sunshine, and away from high temperature.
- f) For the heat transfer and ventilation purpose, require at least 15cm space distance between DVR and other object (such as wall) while install the device.
- g) Correct grounding for the DVR device while operating.
- h) Check with the connection with other equipment while DVR operating.

B. Other notice

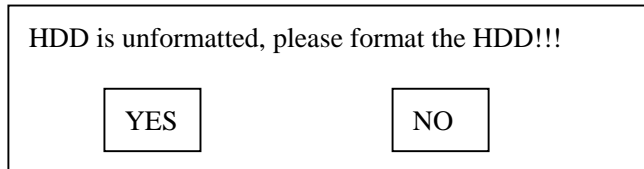
- a) Do not operate the device with wet hands.
- b) Away from any wet place, fire hazard occur by short circuit damage by any liquid drop to device.
- c) Do not place anything on the top of device.
- d) Use soft cleaner to clean the device, do use chemical cleaner.
- e) Live voltage does exist while the device is being connected with power supply, even device off.
- f) Please disconnect the power supply while long time not using
- g) If the DVR does not operate correctly, do not disassemble it without authorization. Contact your local agency for after-sales service. The warranty will become invalid if it is disassembled without authorization.

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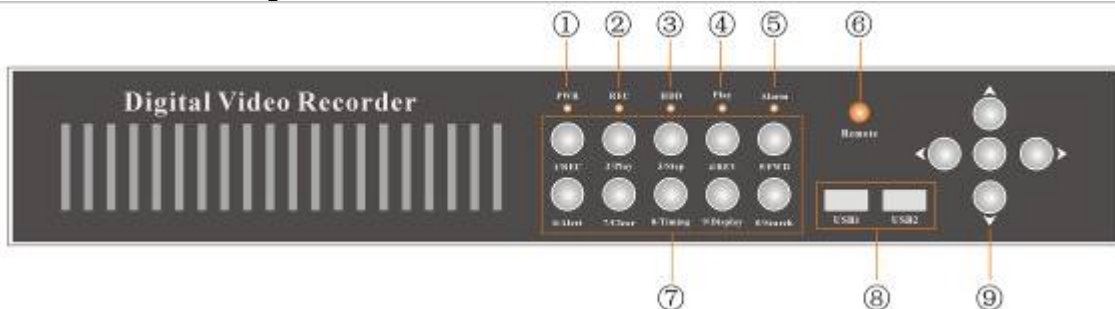
Brief Operation Instruction

- A. HDD Install:
- The DVR can install two HDD; setup one of them into master and another to slave.
 - Connect the HDD by the IDE cable.
 - Connect the cable to the DVR.
- B. After installed the HDD, connect the power cable to the DVR.
- C. when the DVR power on, the screen will display as below:





- "YES": when you select this, then the DVR will begin to format the HDD, and it will take few minutes to format. After formatted the HDD, the screen will pop-up a message "Formatted successful", press "enter" to enter into the DVR system.
- "NO": when you select this, then there is a message will on the screen: "Unformatted HDD, please format the HDD". Select "Enter" to format the HDD, select "Cancel" to enter into the system directly, and the screen will has a message "Unformatted HDD, please format the HDD".

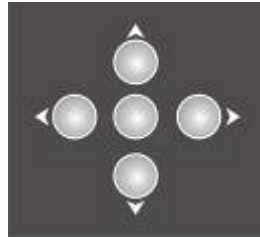
Front Panel Key Function:











- PWR indicate the power status, "grey" means off, "RED" means on.
 - REC: indicate the record status, "grey" means it doesn't record, "BLUE" means it's in recording mode.
 - HDD (HDD): HDD working status, "grey" means off, "BLUE" means on.
 - (Play) playback working status.
 - (Alarm) alarm record.
 - remote control receiver.
 - number key and control key.
 - USB connection.
 - Direction and menu key.
- "●"/ 1: record button, press this button, the DVR will manual record. Press again to stop manual record.
 - "▶"/ 2: playback button, press this to playback. Press again to stop playback.
 - "▶ ||"/ 3: Pause button or when in playback, press this button to play by frame.
 - "◀◀"/ 4: fast backward. The speed: x2/4/ 8/ 16/ 32.
 - "▶▶"/ 5: fast forward, the speed: x2/ 4/ 8/ 16/ 32
 - "Alert"/ " | ◀ "/ 6: activate the alert record.
 - "Clear"/ " ▶ | "/ 7: stop the alert record.

- H. "Timing"/ "  ▶ "/ 8: activate the time record.
- I. "Display"/ "  ▶ "/ 9: display the DVR status. While in monitor mode, press this button, the screen will show the date; time; HDD information... etc on the screen, press this again, all the status will disappear.
- J. "search"/0:press this button to search the record data by list.

Direction Key Function:



The five keys used to control setup operation. In the middle: "menu" key; other keys for direction key or for windows selection key while in playback. The key's function as below:

- A. In surveillance mode:
 - a) Press "Menu" = "Enter" button to begin to enter into the System Setup system.
 - b) Press "  " to into only channel "1" monitor mode ; press "  " to into only channel "2" monitor mode; press "  " to into only channel "3" monitor mode; press "  " to into only channel "4" monitor mode; press "Menu" to back to 4 channel monitor mode.
- B. When into the setup manual. Button "  " and "  " is to move the cursor; button "  " and "  " is to choose the items.

Back Panel:



- ① Audio input / audio output: there are two channels audio, window1 and window2 uses the audio 1; window3 and window4 uses the audio 2.
- ② Video input
- ③ Video output
- ④ LAN port
- ⑤ Power jack
- ⑥ Alarm input / alarm output and RS-485 connection port, from left to right,: alarm output 1, 2; alarm input 1, 2, 3, 4; Ground; RS-485
- ⑦ Fan

- ① **STANDBY:**
- ② **DISPLAY:** Display the DVR status. While in monitor mode, press this button, the screen will show the date; time; HDD information... etc on the screen, press this again, all the status will disappear. The key will valid in Recording, Playback and Monitor mode.
- ③ **CLEAR**
Press this button, the system will off the alert single out, but will not stop the alert recording.
- ④ **Lock:** to lock the front panel of the DVR, only the administrator can open.
- ⑤ **WATCH ON:** start to alert recording, if this function doesn't open, then all the setup for the alert recording is invalid. And in alert recording mode, the monitor display must be in four windows.
- ⑥ **TIMING:** Press this button to start to timing recording, then the system will record follow the setup of the Timing record setup. In this mode, except "Menu"; "Display" and "Playback" button, other keys are invalid, until cancelled the "Timing Recording" function.
- ⑦ **SEARCH:** search the record file by time.
- ⑧ **QUALITY:** when stop to record, press this button to setup the quality on the screen, follow this "Super good" >> "Good" >> "Normal" >> "Manual". This setup is for the next time recording quality, press "clear" button to cancel the setup, and the system will still follow the setup of the "Video Recording Setup" to record.
- ⑨ **Number Key / Recording Key/ Playback Key function**
 - a) **Recording/ Stop Recording/ "1" key ("●") :** to start or stop to manual record. In setup menu, the key for number "1".
 - b) **Playback/ Stop/ "2" key ("▶") :** press this button to playback/ stop to playback, while in playback, the LED of the key will on. In setup menu, the key for number "2".
all the button as bellow only valid in display mode
 - c) **Pause/ Frame/ "3" key:** press this button to pause to playback, press again and continue to press this button will playback by frame.
 - d) **Fast Backward/ "4" key ("◀◀") :** fast backward button: speed x2; x4; x8; x16; x32. in setup menu, the key for number "4"
 - e) **Fast Forward/ "5" key:** fast forward button: speed x2; x4; x8; x16, in setup menu, the key for number "4".
 - f) **Pageup/ "6" key:** while in playback mode, press this button to directly playback the previous record file; while stop to playback, press this button to setup the recording quality on the screen directly. Continue press this button to setup the recording quality follow: "Super good"; "good"; "normal"; "manual". This setup is for next record, press "clear" button can cancelled to save the setup. When in setup menu, this button for number "6"
 - g) **"Pagedown/ "7" key:** while in playback mode, press this button to directly playback the next record file; when in setup menu, this button for number "7"
 - h) **"First/ "8" key:** Whether in manual recording or alert recording, press this button, the system will directly enter to playback the record file from begin. When in setup menu, this button for number "8".
 - i) **"Last"/ "9" key:** press this button to directly playback the last record file. While in setup menu, this button for number "9".
 - j) **"info"/ "0" key:** press this button to view the system's information and the HDD capacity. The information will display on the screen for 10 seconds, if info will display while press this button again. While in playback mode, press this button to

select the normal recording file or select the alert recording file, press one for alert recording file, press again for normal recording file, and it always will begin to playback from the beginning of the next one recording file. While in setup menu, this button for number "0".

- ⑩ **"Direction" and "menu" key:** the key in the middle is for "Menu" key, others is for direction key or while in playback mode for 4 channel screen selection key.
- a) **"Left" ("←"):** while it's not in alert record mode, press this button to enter into the third window; while in playback mode, press this button to display the third window record file; while in setup menu, press this to move to left; while in non-number option, press this button to select the previous option.
 - b) **"Up" ("↑"):** while it's not in alert record mode, press this button to enter into the first window; while in playback mode, press this button to display the first window record file; while in non-number option, press this button to select the previous option.
 - c) **"Right" ("→"):** while it's not in alert record mode, press this button to enter into the forth window; while in playback mode, press this button to display the forth window record file; while in setup menu, press this to move to right; while in non-number option, press this button to select the next option.
 - d) **"Down" ("↓"):** while it's not in alert record mode, press this button to enter into the second window; while in playback mode, press this button to display the second window record file; while in non-number option, press this button to select the next option.
 - e) **"Menu":** (no record; no playback) the LED of the key on means the system is on monitor mode, then you can enter into the setup menu. Press this button, the screen will show the entire system setup menu. If the systems with security password, the window will pop-up a message "enter into the password". While in playback mode, press this button enter into the record search setup menu.

"PTZ" setup key:

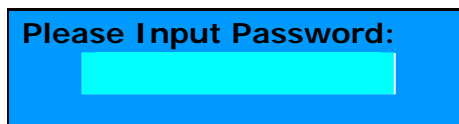
number key: setup the PTZ decoding address; you can control the PTZ after you setup the decoding address.

FOCUS; ZOOM: IRIS:

System setting

1. Enter menu

1. In the live monitor, press "manual" button in the front panel. If the system has password, the screen will display as below: "Please Input password"
2. Two levels of password are available in the setup. Depending on the authorization assigned to the password entered, the permissions for the entered password will display on the screen,
 - i. USER PASSWORD CORRECT indicates permission is limited to playback of recorded video. Default password: 66666666
 - ii. ADMIN PASSWORD CORRECT indicates full access to all playback, setup and controls. Default password: 88888888



System setup manual operation instruction

Press "setup" key while system without security protection, or input the correct administrator password in "please input password" window, the screen will pop-up the system setup manual.

After into the setup menu, press "↑" "↓" "←" "→" key to move the cursor; press "menu" key to confirm. Press "↑" "↓" key to select the main menu item, press "→" key to enter into the menu setting, press "return" to back to the main setup menu. Press "←" key to exit the setup menu and the window will pop-up a message:

"Save and exit": Save and exit the setting menu;

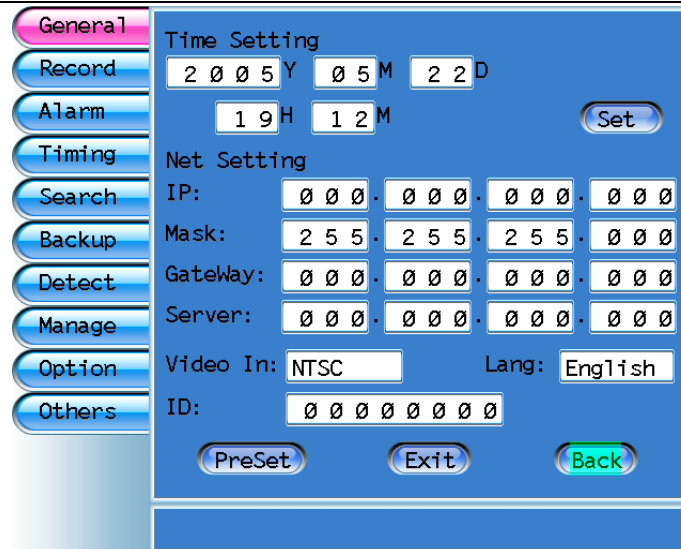
"Don't save and exit": don't save the setup and exit the setting menu. If you want to return to continue to setup, move the cursor to the "return" button and press "menu" button.

While the cursor in any setting menu, press "←" key to directly back to the main menu.

Default setup: press this button to resume to the system default setting

2. Normal setting

Choose "general setting" in the system setting menu, press and enter the following window:



1. Time setting: Press the number keys and input the year, month, date, hour, minute, and second. After that, press "Set" button to save.
2. Net setting: Setup the Device's network IP. Server can be ignored.
3. Video In: Video format can only be setted on the DVR main board by adjust the hardware.
4. Language: English or Chinese Simplified can be used.
5. ID: the Device's ID.
6. "Preset": cancelled the changed the setup,
7. "Exit": exit the setup manual, move the cursor to here and press "Enter" the screen will pop-up as below:
 - i. Select "Save and Exit" and press "YES", the DVR will save the setup and exit to the monitor mode;
 - ii. Select "Don't save and Exit", the DVR will not save the setup and exit to the monitor mode
 - iii. Select "Back to setup manual", then will back to the current setup manual.
8. "Back": exit to the previous manual.

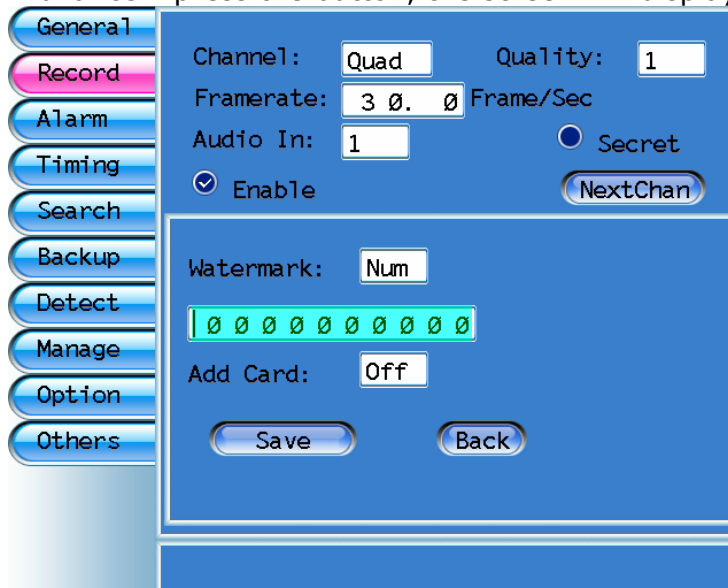
4. Recording setting

press "➡" and enter the following window:



1. Channel: at this moment, only "All" option can be used; select "ALL" means record 4 channels.
2. Quality: the quality of recording has eight levels: 1-8 level, level 8 is user-setting level which means you can setup the Bitrate as you want. 1-7 are regular. 1 is lowest and 7 is highest.

3. Frame rate: the range is from 0.1ps/second to 30ps/second
4. "Audio in" and "Enable": click on the "enable", the DVR will record the audio, if not; the DVR will not record the audio.
5. "Secret": inactivated in this version
6. The range of bitrate is from 1MB/H to 1600MB/H(four channels together); when you setup the above Channel quality level to "1", then the BitRate will be 300MB/Hr. the quality level is "2", then the BitRate will be 400MB/Hr... the quality level is "7", then the DVR will be 900MB/Hr.
7. "OverWrite": select this into three options: "Auto" ; "Manual" and "NO", When "Auto"/ "Manual" option being selected, this will allow recording continuously even the hard disk space full up, and the video will be recording into FIFO ("First-In-First-Out") format; when "NO" selected, which disable the recording function while the hard disk space full up;
8. "prealarm": the Harddisk's capacity is get close to the size which you setup in here, the DVR will alarm.
9. "Mask": inactivated in this version.
10. "Advance": press the button, the screen will display as below:



"Water mark" / "Add Card": inactivated in this version.

5. Alert setting

Move the cursor to "alert setting", and press **➡** to enter the following window:



1. "Time before"/ "after": "before": this is show as "AUTO" (not allow for adjust) due to factory setting as 10 seconds to retrieve the record video signal 10 seconds ahead from the time of start recording (such as Motion Detection, once

it activate, then the video record is 10 seconds ahead of the Motion being detected) ; "after" : Extend time for recording action after certain criteria had been active; (such as alarm sensor to activate the Channel 1 for recording, then this will start record at certain of time in this setting)

2. "Alert delay": Duration time for the recording after alarm finished.
3. "PreQuality": the quality of the channel which before alarm activate.
4. "AlarmoutDelay" : Duration time for buzzer alarm activate;
5. "linkage":

Alarm	Type
Output 1	NO
Alarm 1	NO

AllAlarm Input 1 Level 1


Display	Qual	Out	buzzer	UpLoad
AL Chan 1	1	Off	Off	Off

TimeBegSwitch: 0 0 0 S
TimeEndSwitch: 0 0 0 S

NextAlm
Save Back

- a) "Alarm", in this option, you can select the output port and alarmed,
- b) "Type", in this option, there are two options in here, "normal close" and "normal open".
- c) "AllAlarm": alarm mode.
- d) "Level": channel quality
- e) Display/ Qual/ Out/ Buzzer/ Upload/: setup the channel quality.
- f) "NextAlm"= "AllAlarm"
- g) "Save": save the setup and exit to the previous manual;
- h) "Back": don't save the setup and exit to the previous manual.


6. Timing setting

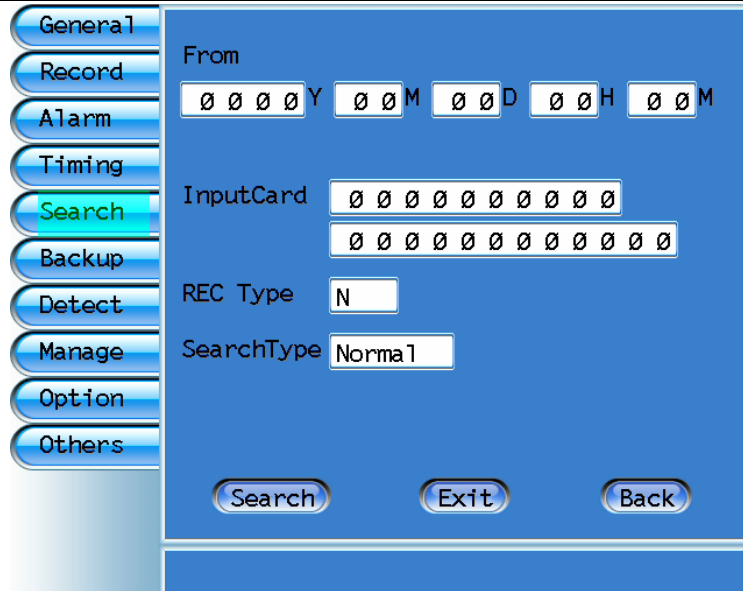
press  and enter the following window:

Cyc	P	From/To	Qual	Type	Chan
Work	A	0000 / 0000	1	Off	AL
Work	A	0000 / 0000	1	Off	AL
Work	A	0000 / 0000	1	Off	AL
Work	A	0000 / 0000	1	Off	AL

1. "Circle" = "Schedule": (eight options) workday, weekday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday. Workday, weekday, Monday and Tuesday can be set between Monday to Sunday; Wednesday, Thursday, Friday, and Saturday set as the date (month/date).
2. Period of time: it is to set the period of time for schedule recording. The user can set eight calculate graph (eight periods of time), form A to H.
3. When setting the parameter, the user has to decide the effective time of schedule recording by setting the circle and the period of time, and decide the working method of recording according to the quality, mode and picture.
4. Quality: quality of schedule recording, to separate the quality setting in other recording. Eight options: 1-7 level and user-setting.
5. Schedule: the video recording will recording when it is the schedule, and stop when the time is up.
6. Detect: to startup MD recording in the schedule, which will function when the "MD detect" parameter is set.
7. Stop: the schedule does not function when "stop" is pressed.
8. Picture: set picture to recording in the schedule.
9. Auto alert: three options: "within schedule", "without timing" and "no". When "within schedule" is chosen, the auto alert will only function in the schedule, while it will only function in the schedule when "without timing" is chosen.
10. Attention: after setting the schedule, save and cancel, the schedule setting will function when the "schedule" key in the front panel is pressed.

7. Search:

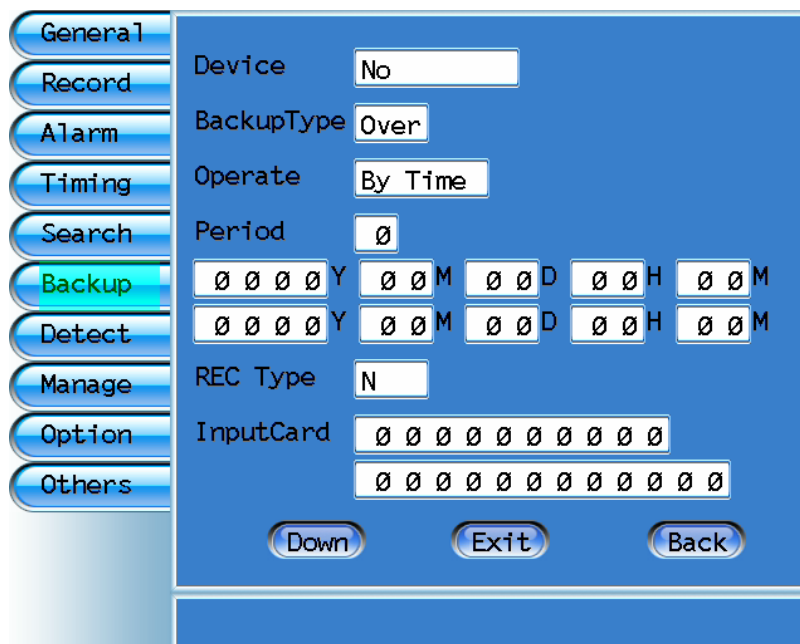
press  to enter the following window:



1. Input the time: input the beginning and end time of the recording.
2. Input the card NO.: inactivate at this version.
3. Recording mode: choose the mode of recording information (normal or alert)
4. Searching mode: two options: fast searching and full searching.

8. Backup:

press to enter the following window:



1. Device: USB; NET;CD-ROM(include DVD-RW); NO; Disk.
2. Backup mode: It has two options: overwrite and advanced. Overwrite means to cover the old information; advanced means to add the new information behind the old one.
3. Sort: by time; by list; by flag. (normalliy by time).
4. REC Type:alarm record; normal record; (normally choose the normal record)
5. Period: inactivate at this version.


9. Detect = Motion Detection.

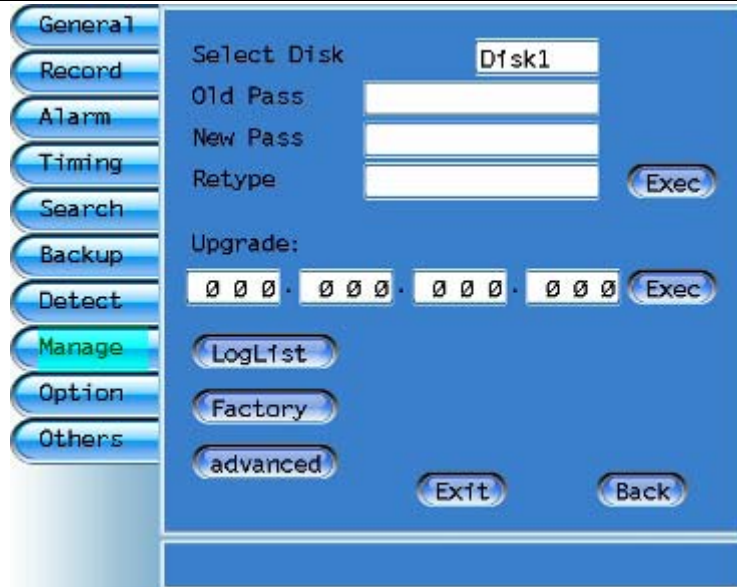
Press to enter the following window:



1. Choose picture: picture 1, picture 2, picture 3, and picture 4. The picture can be set independently.
2. Setting effect: when the user has chosen either one from the four pictures without pressing the "setting effect", the system will play the four pictures instead of one.
3. Detect recording: it is the detection recording catalogue with normal and alert to choose from. The video recording has to be set in "guard" when alert is chosen.
4. Detect sensitivity: seven levels (highest, higher, high, middle, low, lower and lowest) to choose from according to different live environment.
5. Video lost detect: the default is close. If it is enable, when the image is viciously covered, the video recording will alert according to the video lost sensitivity.
6. Video lost sensitivity: seven levels to choose from according to different live environment.
7. Recording time: to set the time of detect recording.
8. Area select: to divide the live picture to 16 areas. User can set the whole 16 areas to be "yes" or "no", and also set some of them according to his own need.
9. Lost detect: to startup/stop the lost picture. When "startup" is chosen, the video recording will alert when the information is destroyed. User can also set when MD detect to get into effect. (startup schedule detect/MD detect)
10. Startup schedule detect: MD detect will only be effective in the scheduler and only when the schedule setting is detect.
11. Startup MD detection: The video recording will detect all the time. The schedule detect is not functioning now.
12. The video recording can do the select setting in each picture independently. When setting, the picture and its number appear on the screen. User can also press "next picture" to choose the picture that needs setting.
13. Attention: The alert of information lost and screen cover will only be rang in the alert state.

10. Manage = system management

press  to enter the following window:




1. Equipment: Disk1; Disk 2;
2. old P/W: enter the old password
3. New P/W: enter the new password.
4. Retype: confirm the new password.
5. Exec: select this option and press enter to save the setup
6. Upgrade: enter the IP address and press "EXEC" to save;
7. Loglist: setup/ System log list
8. Factory = Default setup;
9. Advanced:



- i. Input the manager's password to change the seven levels of recording baud rate, or to get back the information.




11. Option:

press  to enter the following window:



1. User: Manage or operator
2. Old P/W: enter into the old password.
3. New P/W: enter into the new password.
4. Retype: confirm the new password.
5. Privilege Setting: the permissions for the user: move the cursor on the option and press "enter" to select.

12. Others:

press  to enter the following window:

General	Channel	Name
Record	1	camera 1
Alarm	Display Position	A
Timing	RS485 Device	Decoder
Search	P.T.Z Protocol	P A N A S O N I C
Backup	Decoder Baudrate	19200
Detect	P.T.Z Adress	2
Manage	Receiver Address	0 1
Option	Enable	N Wait 1 0 Min
Others	<input type="button" value="PreSet"/> <input type="button" value="Exit"/> <input type="button" value="Back"/>	

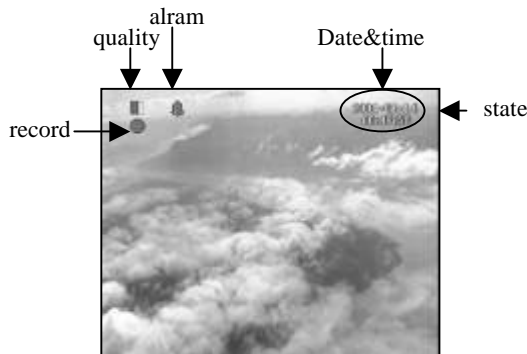
When you connect the PTZ to the DVR, and then setup this manual follow the parameter of the PTZ.

DVR Status Display

This machine can show the date, time and the running state on the monitor screen.

Status:

There are some signals on the screen, as below:



If no status indication on the screen, press "display" on the front panel, the status line will show. Press "display" button again, the status of HDD will display, press the third time, the line will disappear.

Time/date display

It will show on the right of the screen. (Reference "date and time setting" in the system setting menu). The time is set manually before use, and will keep automatically. When the system is recording or stopping, it shows the current time; when the system is playing record, it shows the record time; when pause, it shows the time when you stop playing, the time keeps still.

Basic function display

The left of the state line means the running state of the machine. A red bell means alert, a red circle means record, the signal of alert means alert record, so it shows with the recording signal. The quality signal compose 3 parallel squar. 1 "grade 1", 2 green squar means "grade 2", 3 green squar means "grade 3", 1 yellow squar means "grade 4", 2 yellow squar means "grade 5", 3 yellow squar means "grade 6", 1 red squar means "grade 7", 2 red squar means "grade 8" that is "user-setting".

Shown as diagram below: the time is the record time, not the present.

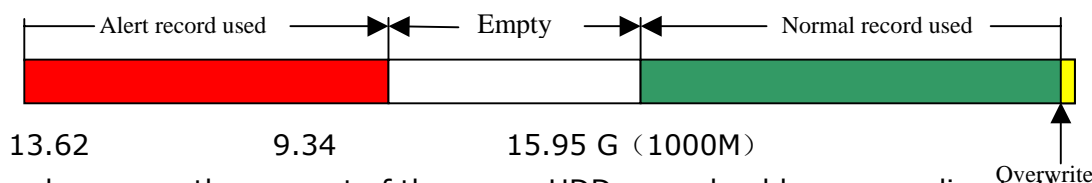
A blue squar means stop (play, record). it will change to red, if you don't set auto overwrite and the HDD is full at the same time. it will overwrite all the record except alert record. (The related system setting chapter for details sees)

press " alert" will start schedule, a bell will show (shown as upper). but you should confirm whether start scheduling record. (The related system setting chapter for details sees)

the upper shows the playing. the related display will show, if the function start.

DISPLAY OF HDD USEAGE

when the basic function of running and time has shown on screen, press "display" will appear a color signal to show the usage of HDD.



The color means the percent of the usage HDD; you should see according to the direction which arrow direct. The yellow means the way of overwrite. If no yellow appear, means the "auto overwrite" set as "no". (The related system setting chapter for details sees). the numbers below means the capacity.

If HDD is full, the display is different. The red area will extend to right, and start overwriting

the green area, when you set as "auto ";the white area will be overwrite by red and green at the same time, when set "all".

Switch on Display

Original image will show about 5 second. From switch on, HDD reset to the end of original image need about 15S.then start running normally.

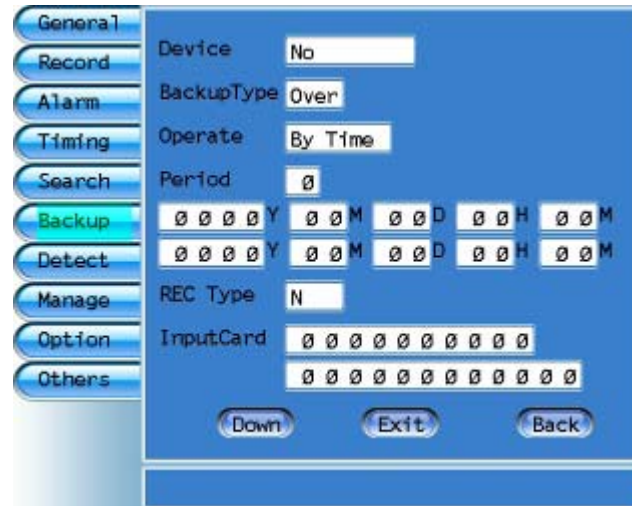
Especially, it can renew after power off. It can keep the condition before. Because it not belongs to restart, do not show the original image. Please wait patiently.

Alert input/output/RS-485 SIGNAL TERMINAL ... Optional

Alert output and alert input is both zero-voltage signal. It is include 4 alert inputs and 2 alert outputs. The position is as the diagram below, each signal has a pair of connective terminal.

Record file backup operation instruction

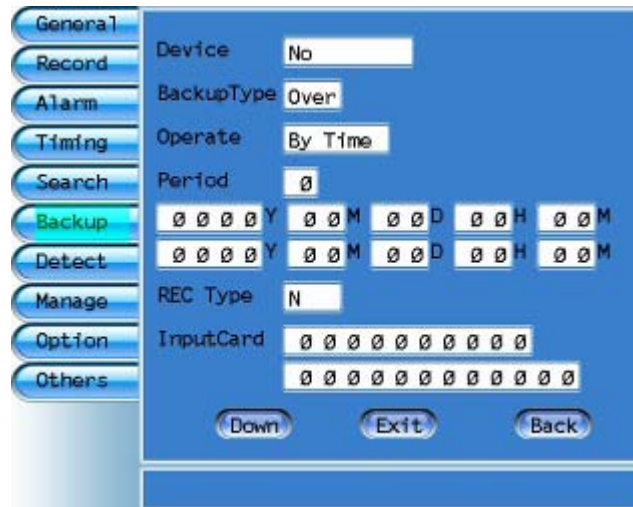
- 1、 power off the power, connect the USB device to the DVR by USB Cable. Power on the DVR again.
- 2、 in surveillance mode, press the "menu" button on the front panel to login to the system setup menu.
- 3、 move the cursor to the "Backup" menu, and the screen will show as below:



- 4、 press the "→" key on the front panel, and move the cursor to the "Device" option, press "按→" key again to select the "USB device" option.
- 5、 move the cursor to the "backup mode" option and select "add" option.
- 6、 move the cursor to the "operation mode" option and setup "time input"
- 7、 move the cursor to "record type" option, and there are three options to select: "All/ normal/ alarm" "normal": timing record and manual record file; "alarm": alarm record file; "all": all the record file.
- 8、 move the cursor to the "YYYY/MM/DD/MM/SS" option, input the start time and finish time. The first one is the start time; the second one is the finish time,
- 9、 move the cursor to the "backup" option, press "menu" button on the front panel, the system will start to back. There is a message "being backup" on the screen. This will spend few minutes to finish to backup. There is a message "finished to backup" on the screen. Then you can press "menu" button to exit to the surveillance mode.
- 10、 after success to backup the record file, then you can power off the DVR and plug out the USB device.

CD-RW (DVD-RW) Backup function operation instruction

- 1、 in surveillance mode, press "menu" button to enter into the system setup menu.
- 2、 move the cursor to the "Buckup" menu, and the screen will show as below:



- 3、 press the "→" key on the front panel, and move the cursor to the "Device" option, press "按→" key again to select the "CD-RW" option.
- 4、 move the cursor to the "backup mode" option and select "add" option.
- 5、 move the cursor to the "operation mode" option and setup "by time".
- 6、 move the cursor to "record type" option, and there are three options to select: "all/ normal/ alarm" "normal": timing record and manual record file; "alarm": alarm record file; "all": all the record file.
- 7、 move the cursor to the "YYYY/MM/DD/MM/SS" option, input the start time and finish time. The first one is the start time; the second one is the finish time,
- 8、 insert the CD/DVD disk into the CD-RW(DVD-RW)
- 9、 move the cursor to the "backup" option, press "menu" button on the front panel, the system will start to back. There is a message "being backup" on the screen. This will spend few minutes to finish to backup. There is a message "finished to backup" on the screen. Then you can press "menu" button to exit to the surveillance mode.
- 10、 after success to backup the record file, then you can take the CD/DVD disk out from the CD-RW (DVD-RW).

Remark: it supports CD-R or CD-RW while using the CD-RW to backup. It supports DVD+R or DVD+RW while using the DVD-RW to backup.

Playback the record files which in the backup device

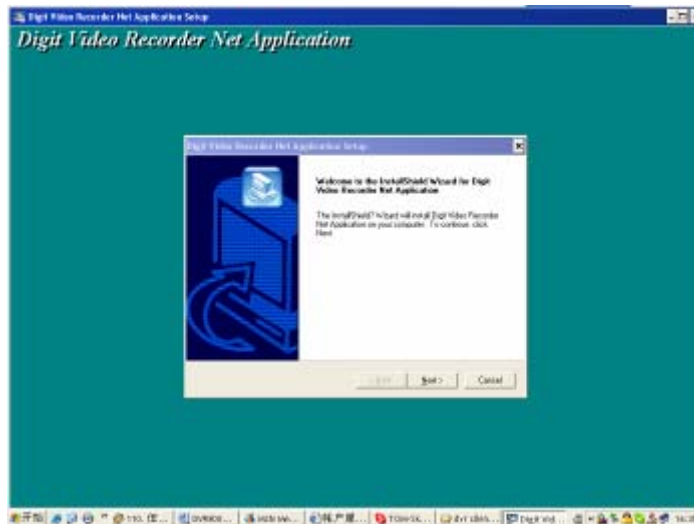
PC configure recommend

CPU	INTEL P4 2.0G or above
Memory	512M or above
Display Card	display memory 64M or above; single display card
System	Windows XP professional or home edition

Playback software operation instruction

1、install the playback software

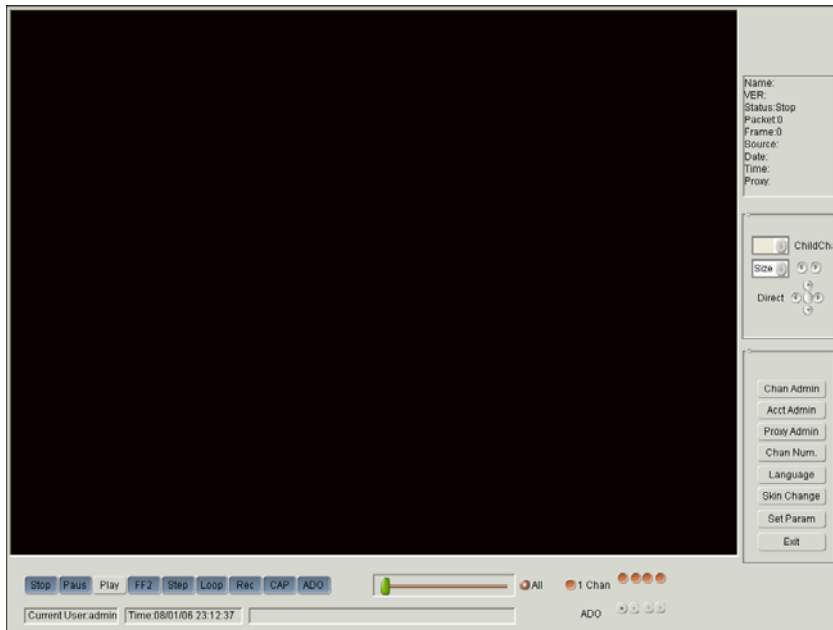
- 1) insert the CD/DVD disk into the PC.
- 2) enter into the "DVR Client" folder which in the CD-ROM
- 3) double click "Setup.exe" to start to install the software, and the screen will show as below:



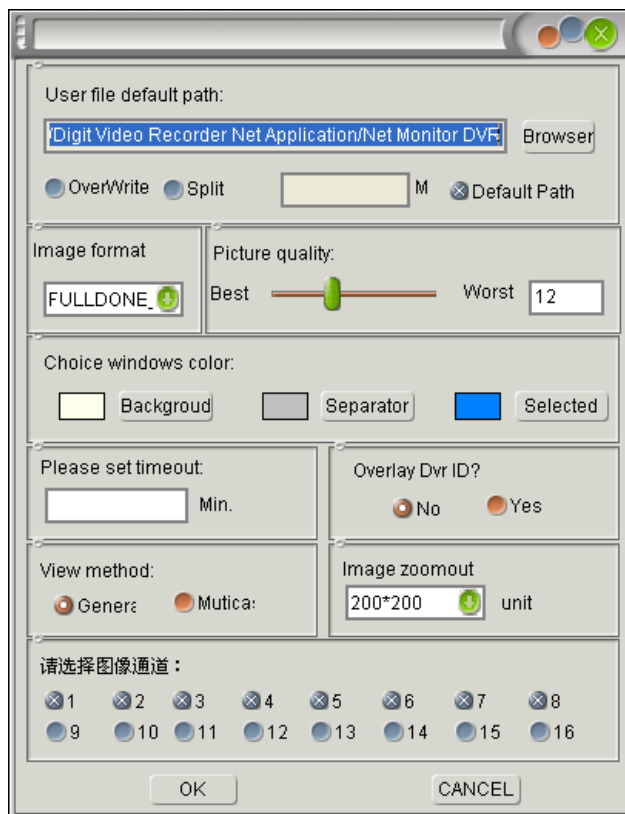
- 4) click "next" to continue to install:




- 5) select the destination folder and click "next" to continue:

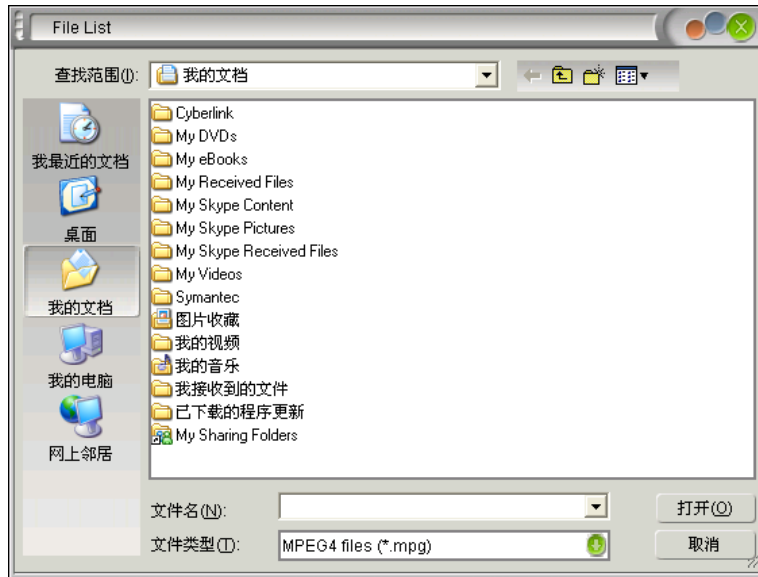


- 4) Please click "SET PARAM", the screen will display as below



- 5) Please click "browser" in "User file default path" bar and select a destination folder to save the file. Press " button in "image format" bar, select the suited resolution (8005DVR: select "HALFDONE-P" while in PAL format; select "HASFDONE-N" while in NTSC format) and press "enter", then off the "SET PARA" setup window.
- 6) Press "exit" to exit the software, and then run the DVR client software again.
- 7) Enter into the software, click "play" button which at the button of the window, then it will pop-up "file list" window, and select the record file which you want

to playback in the backup device, click "open" button and the screen will display as below:



- 8) Click "open" and the system will auto-display. Press the buttons which at the bottom of the window to finish the relate function.

Technology specification

Item	Specification
Compression Standard	MPEG4
Video single	PAL/CCIR, 625 line, 50 fields/ second
Video input	Composite video: 1.0V p-p/75Ω, BNC connector×4
Video output	Composite video: 1.0V p-p/75Ω, BNC connector×2
Audio input	RCA connector×2
Audio output	RCA connector×2
Alarm input	N.O. or N.C.; 4 channels input
Alarm output	N.O.; 2 channels output
Alarm type	sensor input alarm
Control function	PTZ
Network	10/100M supported internet, supported LAN、WAN and ADSL; dynamic IP connection; supported IE browser
Backup	CD-RW/ DVD-RW/ USB /hard disk
Resolution	Display resolution: 704×576 Image resolution: CIF 352×288 1/2D1 352×576 D1 704×576
HDD	1 IDE connector, supported 2PCs 300G or above capacity HDD
O'clock	Year/ month/ day; hour/ minute/ second
Security	Database security + password management
Power	DC12V 60W
Power consumption	50W (without HDD)
Temperature	Working Tem: +5℃~+50℃; Humidity : < 90% Storage Tem: -20℃~+70℃; Humidity: < 95%
Dimension	W x H x L: 335×54×260mm

Supported the USB device

Brand	Capacity	Version	Remark
Teclast	256	2.0	OK
IR	128	1.1	OK
UNIS	128	1.1	OK
MSI	128	1.1	OK
SAGE	128	1.1	OK
TFTT	128	1.1	OK
Newman	128	2.0	OK
Kingston	256	2.0	OK
Netac	128	2.0	OK
Hyundai	128	2.0	OK

Supported DVR-RW/CD-RW brand and model No.

Brand	Model No.
SONY	CD_RW CRX 230AE
BenQ	16X DVD_R DW1640
BenQ	16X DVD_R DW1650
Combo	DVD/CD_RW ASUS CD-5216A