

SCW-960-DVR

and

SCW-460-DVR

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Chapter 1: DVR Features

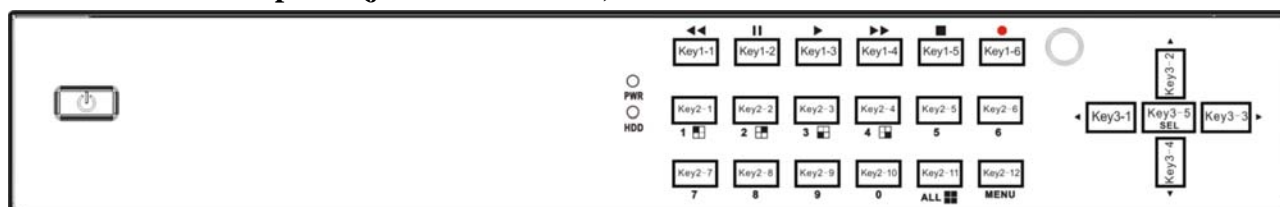
DVR Feature

- MPEG4 compression
- **4-Channel:** 4 BNC Camera Inputs - 2 BNC Video Outputs
9-Channel: 9 BNC Camera Inputs - 1 BNC Video Output
- **4-Channel:** 2 Audio Inputs - 2 Audio Outputs
9-Channel: 1 Audio Input -1 Audio Output
- System Format : NTSC /PAL
- Motion Detection with Sensitivity and Area Settings
- Time Schedule, Alarm and Motion Triggered Recording Modes
- Hard Disk Support up to 500GB
- Support PTZ Control via 485 Port
- View and Operate over Network (Broadband Connection Required)
- Built-in USB2.0 Port for Backup to Computer or
USB Memory stick Backup (Optional)
- VGA Output (Optional)

Chapter 2: Overview

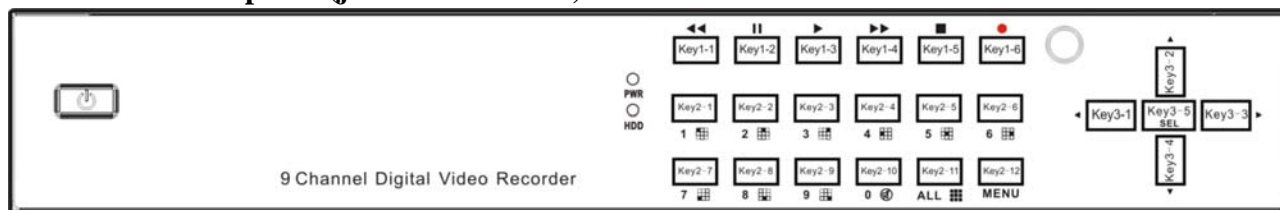
2.1 Front Panel (All Modes)

4-CH DVR front panel (just for reference)



- | | | |
|--------------------|----------------------------|----------------------------|
| 1. Power switch | 9. ■:Stop | 17. ■■:Display All Cameras |
| 2. PWR: Power LED | 10. ●:Record | 18. Menu:Exit Menu |
| IR Receiver window | 11. ■:CH1 | 19. ◀: Left Arrow |
| 3. HDD:HDD Lock | 12. ■:CH2 | 20. ▶: Right Arrow |
| 4. ◀◀:Rewind | 13. ■:CH3 | 21. SEL: Select |
| 6. :Pause | 14. ■:CH4 | 22. ▼:Down Arrow |
| 7. ▶:Play | 15.(5-9):Number 5-Number 9 | 23. ▲: Up Arrow |
| 8. ▶▶:Fast Forward | 16. 0: Mute Audio | |

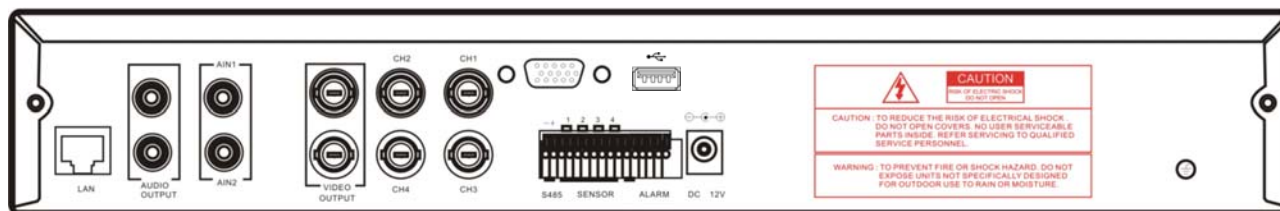
9-CH DVR front panel (just for reference)



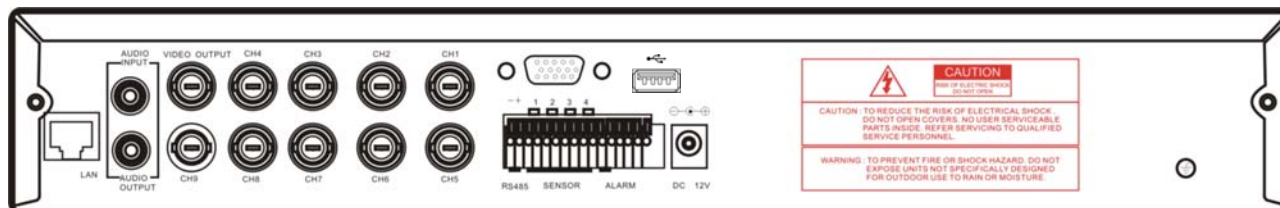
- | | | |
|--------------------|--------------|------------------------------------|
| 1. Power switch | 10. ●:Record | 20. ⓧ: Mute Audio |
| 2. PWR: Power LED | 11. [CH1] | 17. [All Cam] :Display All Cameras |
| IR Receiver window | 12. [CH2] | 18. Menu:Exit Menu |
| 3. HDD:HDD Lock | 13. [CH3] | 19. ◀: Left Arrow |
| 4. ◀◀:Rewind | 14. [CH4] | 20. ▶: Right Arrow |
| 6. :Pause | 15. [CH5] | 21. SEL: Select |
| 7. ▶:Play | 16. [CH6] | 22. ▼:Down Arrow |
| 8. ▶▶:Fast Forward | 17. [CH7] | 23. ▲: Up Arrow |
| 9. ■:Stop | 18. [CH8] | |
| | 19. [CH9] | |

2.2 Rear Panel

4CH DVR Rear Panel (just for reference)



9CH DVR Rear Panel (just for reference)



- | | | |
|----------------|------------------------------------|-----------------------------|
| 1.LAN | 5.CH1-CH9 (Optional) | 8. DC Power |
| 2.AUDIO OUTPUT | 6. VGA output (Optional) | 9.USB port (or Front Panel) |
| 3.AUDIO INPUT | 7. RS485/Sensor Input/Alarm Output | |
| 4.VIDEO OUTPUT | | |

2.3 Remote Control



1-9	Channel Select 1-9
0	Number
ALL	Display all Channels
Menu	Enter or Exit Menu
▲	Move Up/Left
▼	Move Down/Right
SEL	Select /Modify Item
◀◀	Rewind
▶	Play Recording
▶▶	Fast Forward
●	Record
	Pause
■	Stop Recording/Playback
Audio	Audio Input/Output
Mute	Mute Audio

Chapter 3: Alarm Installation

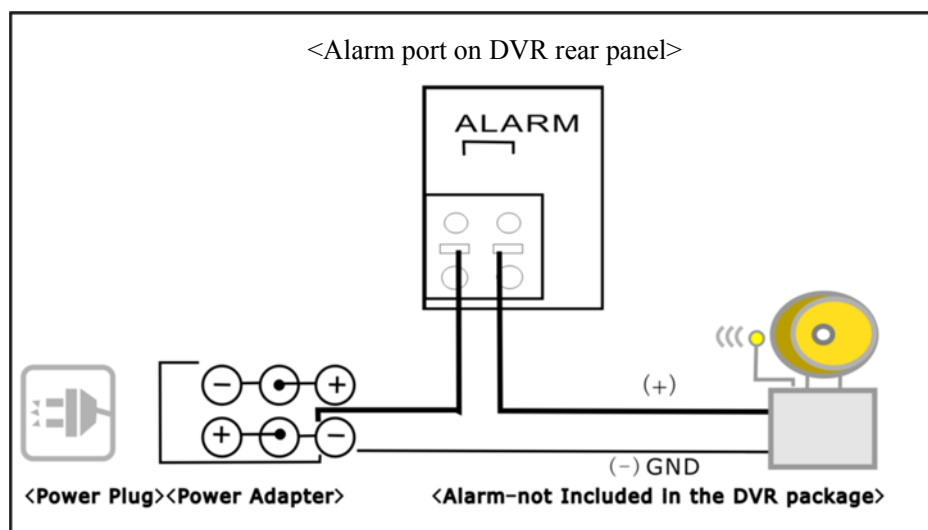
3.1 Alarm Installation

The DVR has an internal switch for sounding an alarm. The switch is normally open, but when the sensor is triggered, the alarm is activated as well. The circuitry is as follows.

[NOTE] Contact an authorized dealer for information about buying the appropriate alarm and proper installation procedures as per your need. There are two steps for alarm installation.

- (a) Connect the alarm power lines to the alarm switch terminal.
- (b) Connect the alarm power lines to the appropriate power source.

The following diagram shows how to install alarm device into your DVR.



Chapter 4: DVR System Installation

4.1 Install Hard Disk

NOTICE: Don't take out HDD when DVR is running.

Make sure the HDD is set to be MASTER according to the hard drive manual.

If your product come with a removable HDD drawer, please refer below:

(1) Take out the hard drive drawer from the DVR, Connect the power and data bus to SATA hard disk interface.



(2) Push the hard drive drawer back into the DVR and Lock the hard drive drawer



If your product does not come with a removable HDD drawer, please refer below:

- (1) Remove the screws around the top cover;
- (2) Remove the top cover carefully;
- (3) Connect the power cord and data cable to hard disk carefully;
- (4) Use the provided screws to fix hard disk on the rack inside and then replace the top cover of the case.

4.2 Connecting Camera and Monitor

There are 4/9 camera inputs and 2/1 Monitor outputs with BNC connectors (Refer to 2.2 Rear Panel).

4.3 VGA Output (optional)

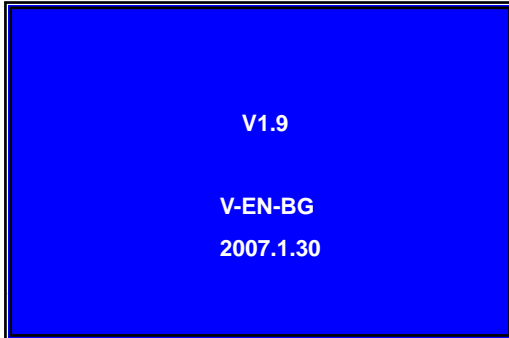
There is 1 CRT or LCD monitor output with VGA port.

4.4 Connecting Power Supply

Please only use the power adapter supplied with the DVR.

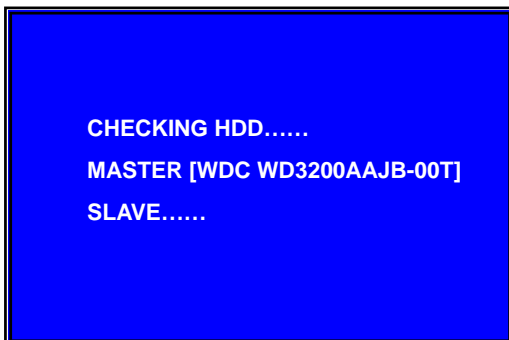
Chapter 5: Starting the DVR

5.1 Firmware Version



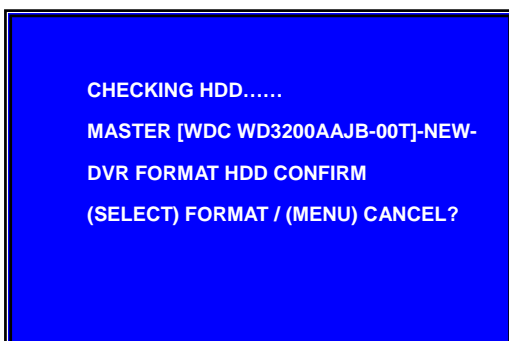
After connecting the power adapter and turning on the power button, the system will boot-up and display the version and released date of the DVR firmware.

5.2 Detecting Installed Hard Drive



DVR will detect the installed hard drive and display the hard drive information.

5.3 Format Hard Drive



When the hard drive is installed in the DVR for the first time the DVR will request you to format the HDD, Otherwise the DVR will not be able to record to the HDD.

Press [**SEL**] to format or press [**MENU**] to cancel.

Chapter 6: DVR Menu System

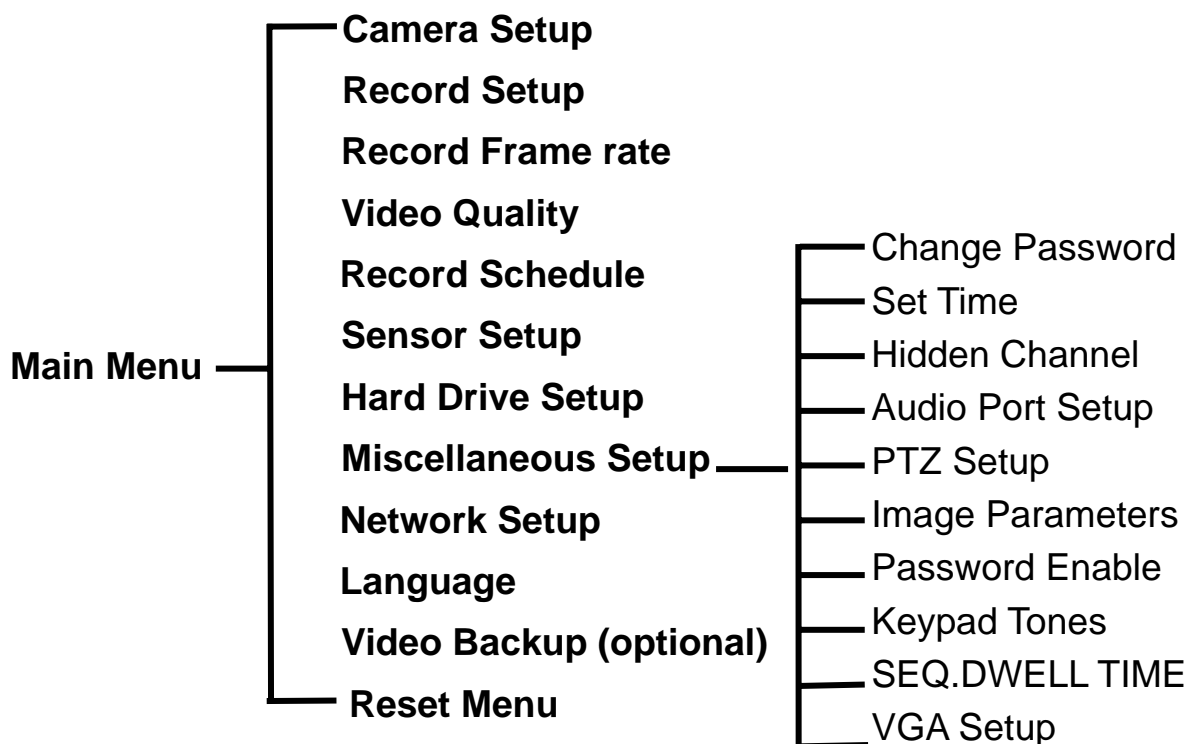
6.1 Navigating the Menus



Press [MENU] to enter main menu.
 Use [▲UP] and [▼DOWN] to select items.
 Press [SEL] to modify setting and [MENU] to return to previous or exit.

6.2 Menu Overview

Menu Directory



6.3 Camera Setup



Camera Setup allows you to turn cameras on or off.
 Press [▲, ▼, ◀ and ▶] button to select a channel and then press [SEL] to modify the setting to **ON** or **OFF**.

Note: If a camera channel is set to OFF, DVR will not record(Details please refer to Chapter 6.4 Record Setup)

6.4 Record Setup



Record Setup allows you to set up recording channels.

Press [**▲**, **▼**, **◀** and **▶**] button to select a channel, and then press [**SEL**] to modify the setting to **ON** or **OFF**.

If a channel is disabled on Camera Setup mode, it will not record and the DVR will display “NOCAM” on screen.

6.5 Record Frame rate

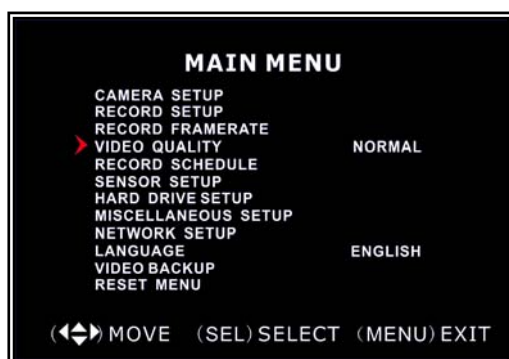


The total frame rate is 50fps (PAL) or 60fps (NTSC). You can set the frame rate for the channel which you selected to record. If the sum of the frame rate you select for all cameras is more than 50fps (PAL)/60fps(NTSC), the DVR will automatically adjust the largest frame rate value to a smaller value.

Press [**▲**, **▼**, **◀** or **▶**] button to select a channel, and then press [**SEL**] to increase the value or press [**■**STOP] to reduce the value.

Note: Higher frame rate shows smooth images but requires more hard drive space.

6.6 Video Quality



Video Quality has 4 different settings: **Highest, High, Normal and Low**.

The higher the video setting, the better quality images, however higher quality images require more hard drive space.

Press [**SEL**] to change the quality setting.

6.7 Record Schedule

Setting the Record Schedule allows you to customize the type of recording depending on the time of day.



The time line indicates 24 hours of a day based on AM/PM (0 = 12).

Press [\blacktriangle , \blacktriangledown , \blacktriangleleft or \blacktriangleright] button to select a time point, press [SEL] to modify the recording mode.

NO-RECORD [\square white]: DVR will not record during the time.

NORMAL-RECORD [\blacksquare red]: DVR will record continuously.

SENSOR-RECORD [S]: **DVR will record when sensor or motion is triggered.**

NOTE: In order to activate the record schedule press the [\bullet] record button when viewing the cameras. After pressing the [\bullet] record button if schedule is set to “NORMAL-RECORD” the DVR will start to record immediately; if the schedule is set to be “SENSOR-RECORD” the DVR will not start recording until a motion is detected by the DVR or an installed sensor is triggered.

6.8 Sensor Setup



Sensor Record Time indicates how long the recording time is when the motion or sensor is triggered.

Alarm On Time indicates whether the buzzer will sound when motion is detected.

SENSORED RECORD TIME:The number (5,10,15,20,25,30) indicates how many seconds the motion detection or sensor triggered recording lasts after motion or sensor triggering stop.

ALARM ON TIME: This selection indicates how many seconds the buzzer inside the DVR or extension alarm sounds after motion or sensor triggering stop.

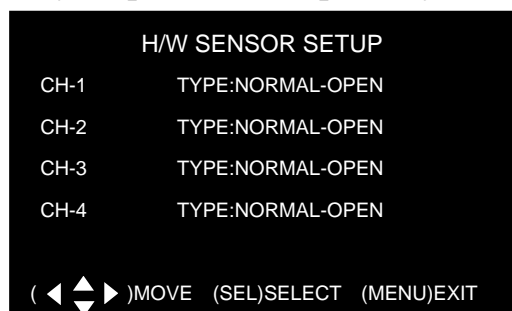
CONT: Continuous alarm until any key is pressed..

OFF: No alarm

6.9 H/W Sensor Setup

Note: Sensors and extension alarm are not included with the DVR system and

may be purchased separately.



HARDWARE SENSOR SETUP:

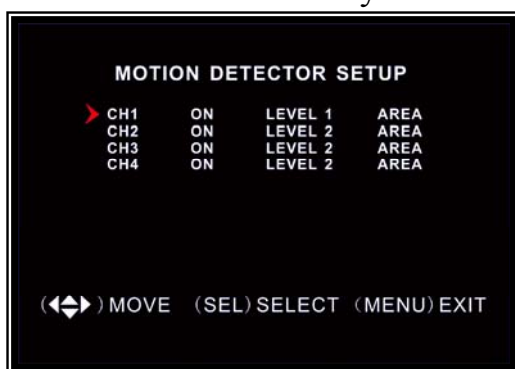
There are 3 different modes for sensor setting: NOT INSTALLED, NORMAL-CLOSE and NORMAL-OPEN. Consult the alarm purchased for more details on which setting is required.

Note: For 4CH DVR, there are 4CH Inputs of the Sensor;

For 9CH DVR, there are 8CH Inputs of the Sensor.

6.10 Motion Detector Setup

This section allows you to set up motion detection options for each camera.

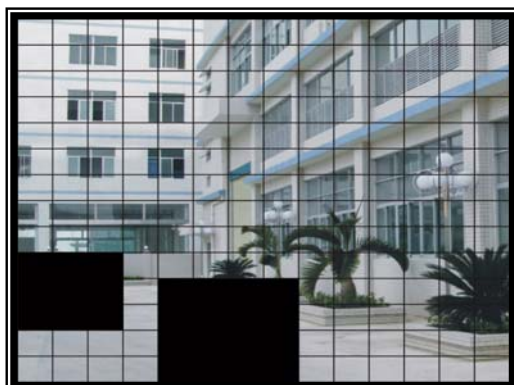


MOTION DETECTOR SETUP:

ON/OFF: Enable or disable motion detection recording.

LEVEL: Sensitivity for motion detection. There are 3 levels sensitivity: Level 1-low, Level 2-Normal, 3-highest

AREA: Select detectable area on the screen.



Area Selection:

Press [▲, ▼, ◀ or ▶] button to select a block, and press [SEL] button to set the block to detect motion. The area is detectable when it is clear, the area is not detectable when it is covert by shadow.

6.11 Hard Drive Setup

This section will display the current hard drive status and usage options



OVERWRITE ENABLED:

ON: overwrite oldest video when hard drive is full.

OFF: stop recording when hard drive is full.

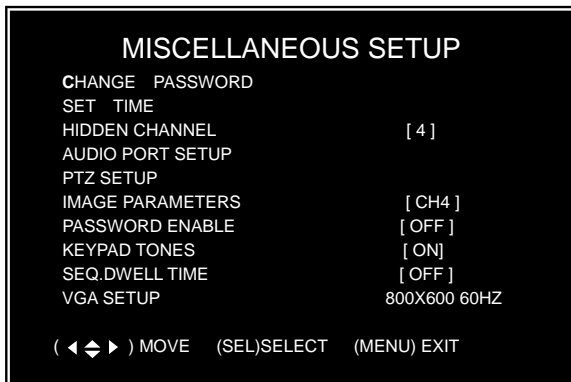
HDD SIZE: indicates the total capacity of the hard drive installed in the DVR.

HDD USED: indicates the space used in the hard disk drive for recording and the percent used.

HDD FORMAT: will erase all video and data on the installed hard drive and make it readable by the DVR

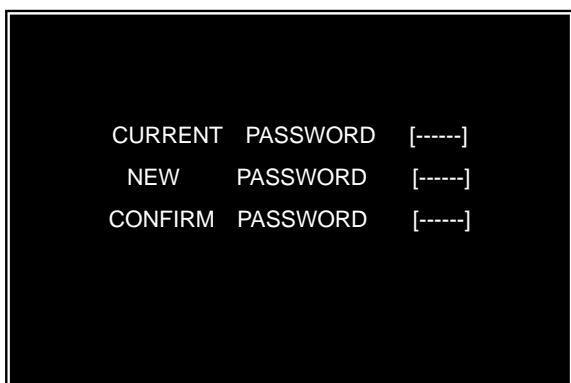
Note: You will be prompted for the password when formatting a hard drive. The default password is “111111”

6.12 Miscellaneous Setup - Change Password



This option allows you to change the system password. The password must be composed with six characters.

All keys can be used as password key except the [MENU] key, which is used to exit.



Enter the current password first, and then enter six characters as your new password, repeat the new password to confirm.

If you forget your password, please contact technical support for assistance.

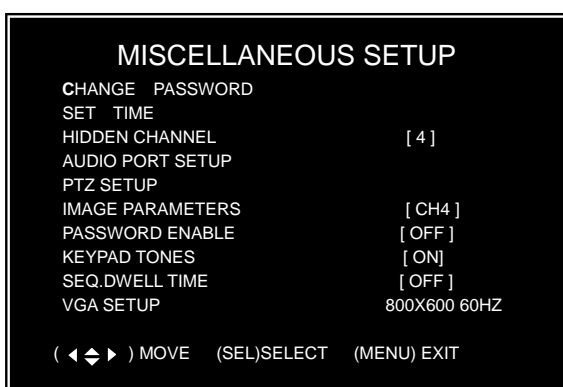
6.13 Miscellaneous Setup - Set Time



The system date and time format is YYYY/MM/DD and HH:MM:SS.

Press [◀] or [▶] button to select the data to modify, press [SEL] to modify. Press [MENU] to save and return to previous menu.

6.14 Miscellaneous Setup - Hidden Channel



The system provides a function to hide a channel in monitoring mode. The selected channel can still be recorded while it's hidden; the hidden picture is viewable during playing back.

Press [SEL] to select a channel to hide.

6.15 Miscellaneous Setup - Audio Port Setup



You can select the audio recording function to **ON** or **OFF**, and select the video channel that you like to record the audio on.

Note: For 4CH DVR, there are 2 Audio inputs;
For 9CH DVR, there are only 1 Audio input.

6.16 Miscellaneous Setup - PTZ Setup



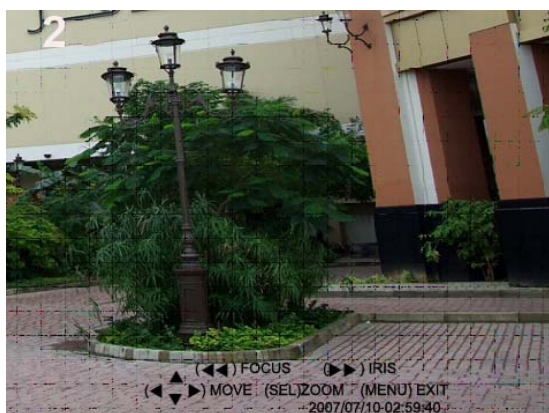
SPEED: Set the baud rate (4800, 9600, 19200, 38400) to match with your speed dome.

PROTOCOL: Supports “PELCO-D” and “PELCO-P”. Select the protocol according to your speed dome’s protocol.

CAMERA: select the camera channel which is connected with the speed dome.

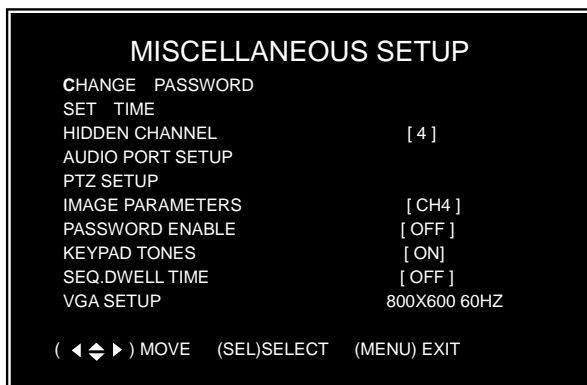
ID: Assign an ID to your speed dome.

Press [**SEL**] to select the camera, press [**◀**] or [**▶**] button to assign the ID.



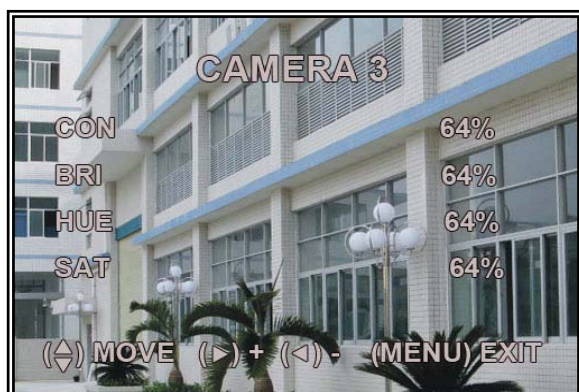
On Single Channel display mode, press [**SEL**] button to enter into PTZ Control mode, and [**◀◀**], [**▶▶**] button to proceed PTZ control.

6.17 Miscellaneous Setup - Image Parameters



You can adjust the image parameters according to your needs.

Move the cursor to this selection and press [◀] or [▶] button to select a channel you want to adjust, then press [SEL] button to edit parameters.



CON: Contrast

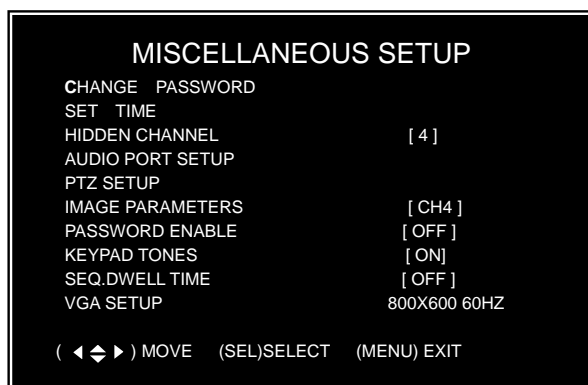
BRI: Brightness

HUE: Hue

SAT: Saturation

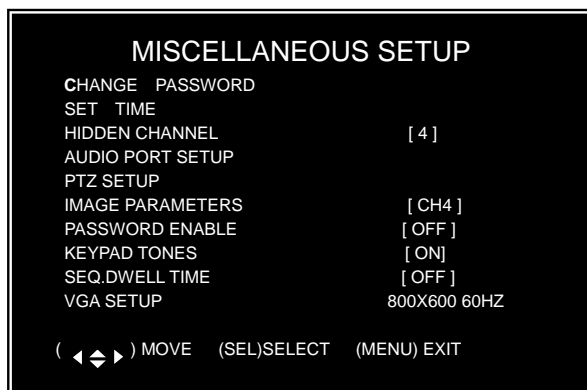
Press [▲] or [▼] to select the item, and [SEL] button to adjust the value.

6.18 Miscellaneous Setup - Password Enable



The password will be required to control the DVR when this option is set to “ON”, and the password is not required when this option is set to “OFF”.

6.19 Miscellaneous Setup - Keypad Tones



This function allows you to enable /disable buzzer sound when pressing a button. Press [SEL] to select **ON** or **OFF**.

6.20 Miscellaneous Setup – SEQ.DWELL TIME



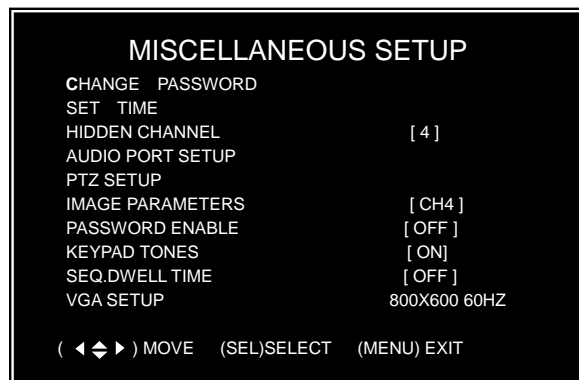
Press [◀◀], [▶▶] ([SEL])button or Select “on” / “off”, or select Seq. Dwell time to proceed the setting.

Remark: Seq. Dwell Time Option. Should be OFF、 1s、 5s、 10s、 15s、 30s、 60s etc.

Note: On working mode press [■■■] button.

to directly proceed the Seq. Swell Time function

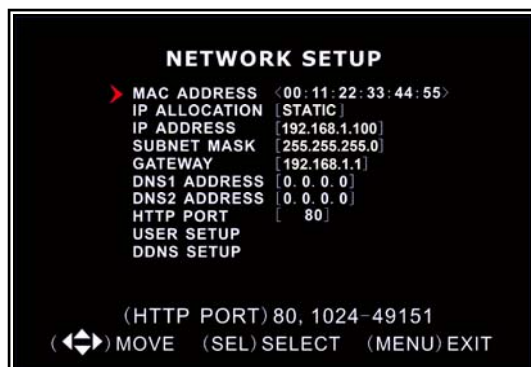
6.21 Miscellaneous Setup - VGA Setup



Select a VGA resolution to match with your CRT or LCD monitor.

NOTE: VGA video output is an optional function and may not be available on all models

6.22 Network Setup

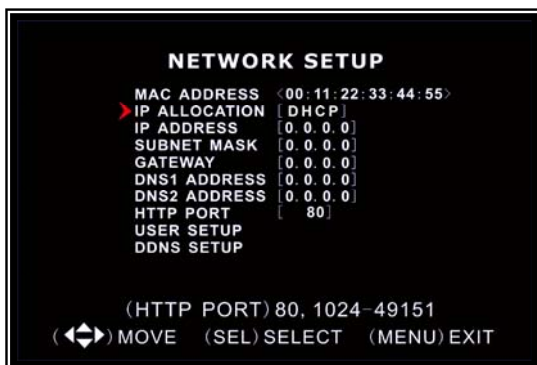


Network Setup allows you to prepare the DVR for viewing over the internet or local network

MAC ADDRESS: In a local area network(LAN), the MAC (Media Access Control) address is your computer’s unique

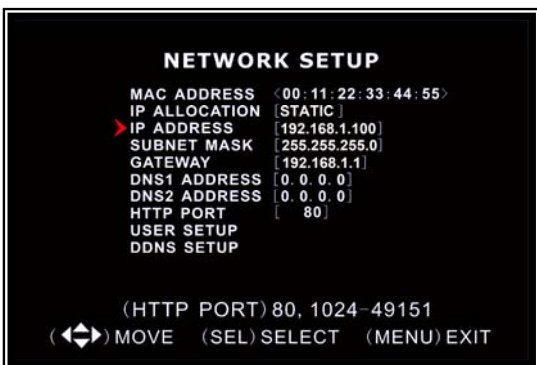
hardware identity code.(On an Ethernet LAN, it is the same as your Ethernet address.)When you are connected to the Internet from your computer (or host as the Internet protocol thinks of it), a corresponding table relates your IP address to your computer’s physical (MAC) address on the LAN.

IMPORTANT: This setting should only be changed if multiple DVRs are being setup on the same network and the first code “00” must not to be changed.

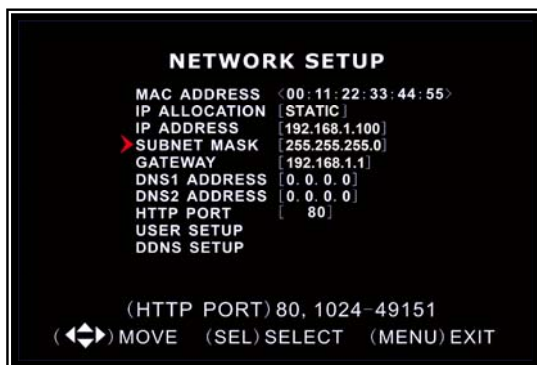


IP ALLOCATION: DVR supports DHCP and Static IP modes. If your modem/router supports DHCP mode use DHCP. When using STATIC mode, you will be required to setup your internet settings manually.

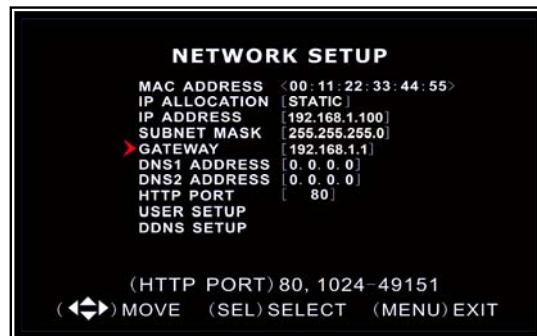
Note: After setting the DVR to DHCP mode restart the unit.



IP Address: In a local network, the IP address is a unique designated address for your DVR recognized by your router. Ensure this number is within the range usable by your modem/router. Use the UP “▲”and DOWN “▼” buttons to move the cursor and use the “SELECT” button to change the numbers. Once you have finished the changes restart your DVR.



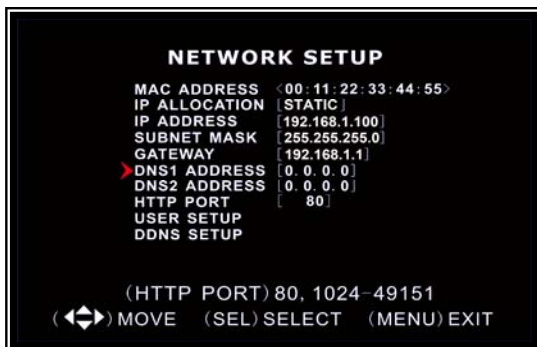
SUBNET MASK: Subnet Mask is used to determine what subnet an IP address belongs to. A number that is used to identify a sub network so that IP addresses can be recognized on a local area network. Consult your modem/router for your LAN’s subnet mask.



GATEWAY: Set this number to the gateway set by your modem/router.

NOTE: To adjust the IP ADDRESS, SUBNET MASK and GATEWAY value,

only when the [STATIC] mode is being selected.



DNS ADDRESS: This code should be provided by your local ISP.



HTTP PORT: This port number is used to communicate with PC Client. The default value is 80.



USER SETUP: When accessing the DVR from a remote location you will be prompted for a login and password. The default is “admin” for full administrator rights. Set “User ID” and password to setup a user with limited rights to prevent tampering.

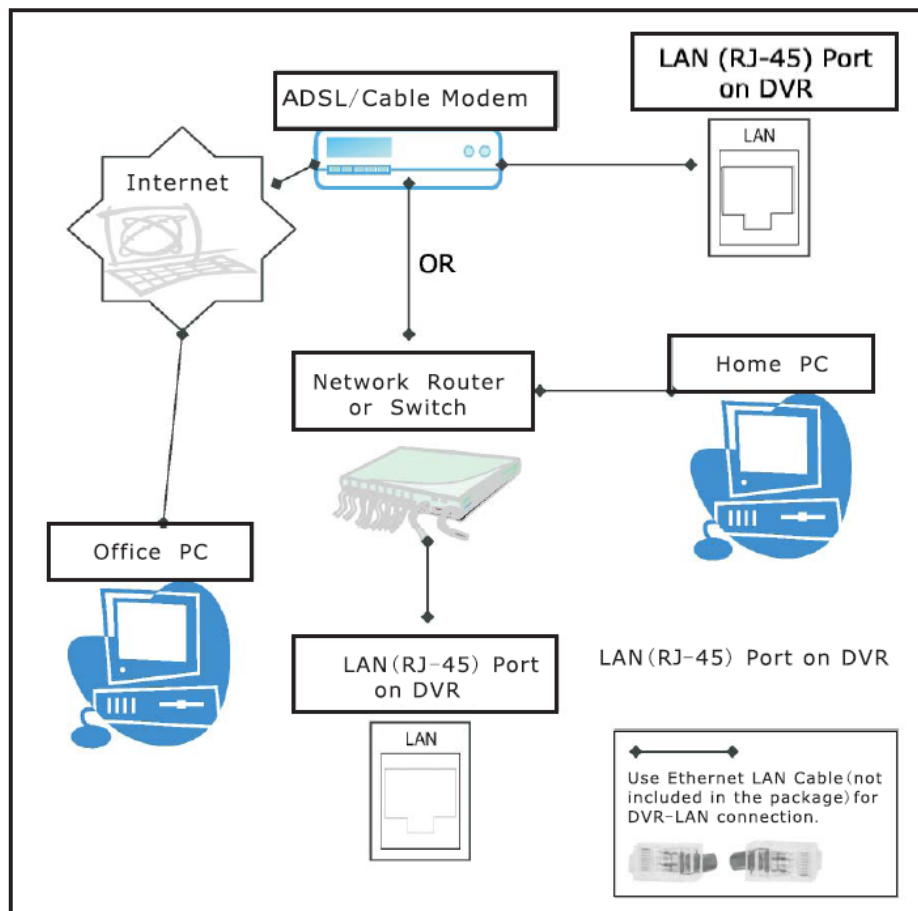


DDNS SETUP: If you require an external service to maintain a dynamic IP address enter the user information here.

LAN-DVR Connection

See the diagram below for steps to connect your DVR to a local area network or the internet. For remote monitoring from your computer, you must have a LAN

connection available or broadband Internet access.



You need to register a www.dyndns.org to get a free account. After registration, you will have a username and password. You can also register your domain name on the website. Please refer to Chapter 5, P. Network Setup for more details. There you will learn how to input the DynDns username, password, and domain name. You can log in from anywhere by using Internet Explorer and entering your DVR's domain name.

6.23 Language



You can change the OSD language from the default English to German, French, Italian, Spanish or Portuguese.

This is only available for the DVR comes with optional feature.

6.24 Video Backup (For Optional USB Memory Stick Backup)

This function is only available for the model which supports USB memory stick device. If your DVR is with PC-link USB interface, please refer Charter 8 for video backup.



Move the cursor to “VIEW EVENTS”, press [SEL] to enter event list. Press [▲] or [▼] button to move the cursor, and then press [SEL] to select the event you like to backup and return to previous menu.



The DVR system already indicated the start & end time of the recording event. Move the cursor to “SIZE”, DVR will automatically indicate the size of the video you like to backup to USB memory stick.



You can directly select the start& end time of a recording video to backup. Move the cursor to “START” or “END”; press [SEL] to enter the interface. Press [◀] or [▶] button to move the cursor, and then press [SEL] to modify the value.

Press [MENU] back to previous menu.



You can rename the backup file. Press [◀] or [▶] button to select the character you want to modify, press [▲] or [▼] button to select a character from the given character list, and then press [SEL] to enter.

Please note that the name must be ended with “.MCG”.



Insert your USB memory stick device into DVR's USB port.

Move the cursor to “**BACKUP TO USB DEVICE**”, press [SEL] button.



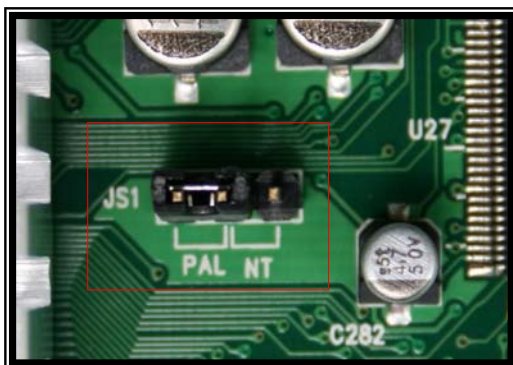
DVR will check your USB device shown as left picture and then start to copy the backup file.

Please read *Charter 8* on how to play back your backup file.

6.25 Reset Menu

If you select this item, the system will restore all your settings to factory default values. You need to enter your password to reset the menu.

6.26 NTSC/PAL Output select



Change the jumper JS1 to select NTSC or PAL video output format according to the silkscreen on the PCB.

Chapter 7: Record

7.1 Start Recording

Press [●] record button to start recording according to the record schedule you have set. System will display some information on screen.



[●]: the red dot next to the channel name indicates that the channel is being recorded.

[A-REC]: indicates the current record schedule is set to NORMAL-RECORD mode.

[S-REC]: indicates the current record schedule is set to SENSOR-RECORD mode.

[N-REC]: indicates the current record schedule is set to NO-RECORD mode.

[39%]: indicates the percentage of hard disk space used.

[M]: HDD info ([M] Master Hard Disk)

7.2 Audio Recording

[1🔊]: indicates this video channel is bundled with an audio port, and the audio output is on.

[1]: indicates the audio output is off.

[1🔊]: indicates the audio is being recorded and the audio output is on.

You could press [0] button on front panel to be mute mode for audio output. The audio input can be still recorded while the output is mute.

7.3 Stop Recording

Press [■] stop button will stop recording. If password protection function is

enabled, system will prompt you to input password. Only correct password can stop recording process.

7.4 Estimated Recording Length

Estimated record time based on 160GB HDD

Standard	Quality	60fps	48fps	32fps	16fps	1fps
NTSC	Highest	62	78	116	232	3720
	High	88	110	165	330	5280
	Normal	107	134	201	401	6420
	Lower	120	150	225	450	7200

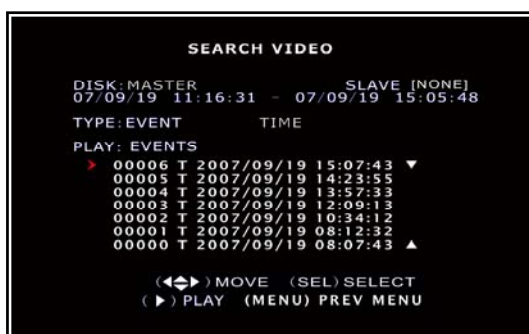
Standard	Quality	50fps	36fps	24fps	12fps	1fps
PAL	Highest	64	89	133	267	3200
	High	90	125	188	375	4500
	Normal	110	153	229	458	5500
	Lower	123	171	256	513	6150

Unit: Hour

Chapter 8: Playback

8.1 Playback Control

Press the [▶] button to enter into PLAYBACK mode. The newest record event will be played.



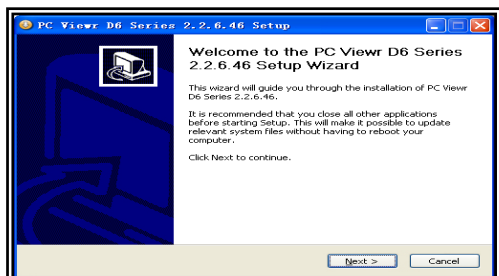
Press the [MENU] button on PLAYBACK mode, then the system will list all the recorded events. The latest record will be on top of the list. Press the [▲UP] or [▼DOWN] buttons to select the start time and then press [▶] to play the event.



Another way to search video is directly input time period. Press the [MENU] button and then use [◀] or [▶] button to select the TIME search mode. Use [SEL] button to edit time value, press [▶] to play the video. If the time you selected has no record event, it will indicates “NO EVENTS” on the screen when you press [▶] play

Chapter 9: USB Programming (optional)

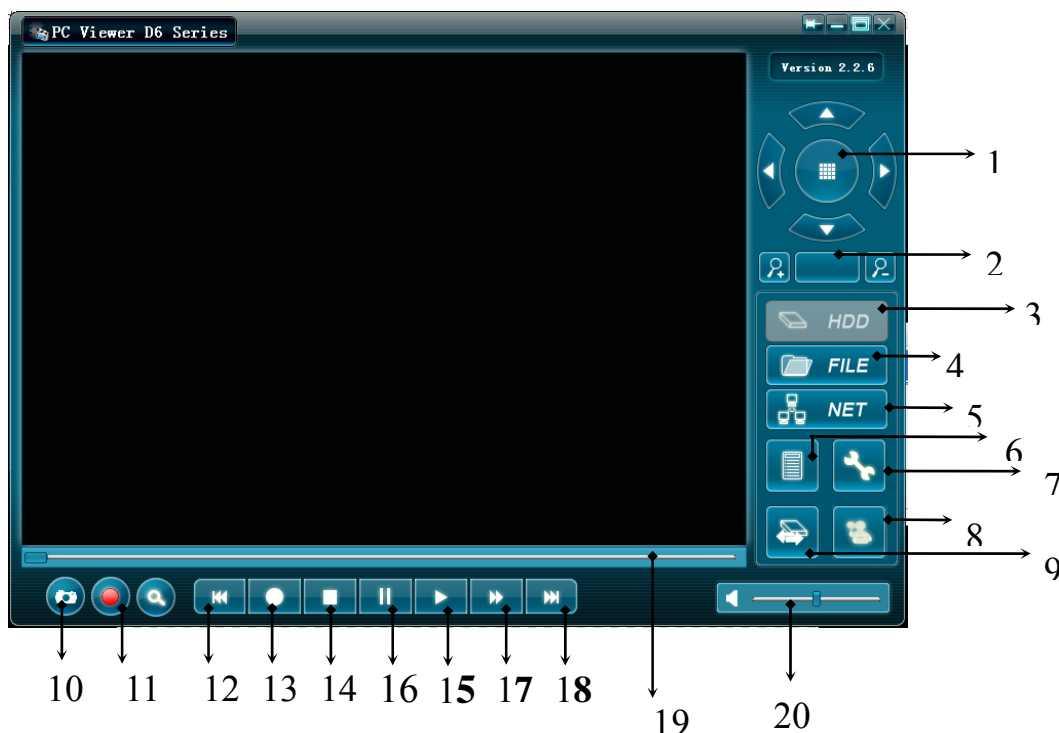
9.1 Driver Installation:



- (1) Insert driver CD to your CD-ROM Drive.
- (2) Open CD directory.
- (3) Double click on the install applications.
- (4) Run "Install" program.
- (5) Follow-up the setup wizard to finish the installation.

9.2 Program Interface

Button functions:





1.PTZ Control	11.Convert Streams to AVI file
2.Zoom in, Zoom Out	12.Back one frame
3.HDD Play Mode	13. Record
4.File Play Mode	14.stop
5.Net Play Mode	15.Play
6.Event List	16.pause
7.Control Panel	17.fast forward
8. Remote DVR Control	18.forward one frame
9.Change Storage Device	19.Playback Slider
10.Capture Image	20.Audio Slider

9.3 Program Running


HDD play mode:

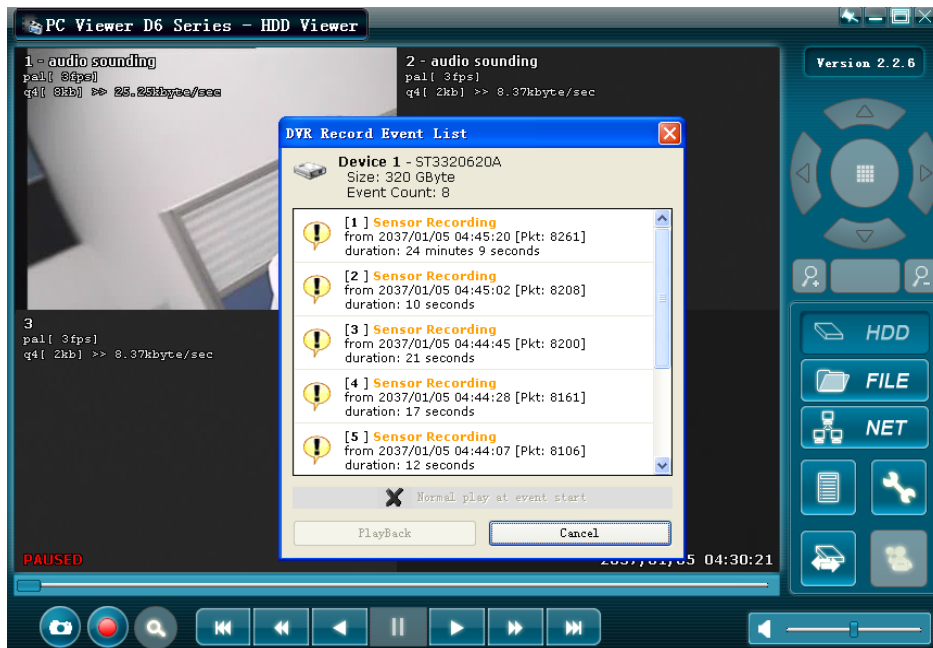
System will detect the HDD automatically when you connect the USB cable to your PC.

An USB icon”  ” will appear in the system tray (right bottom corner of the screen).

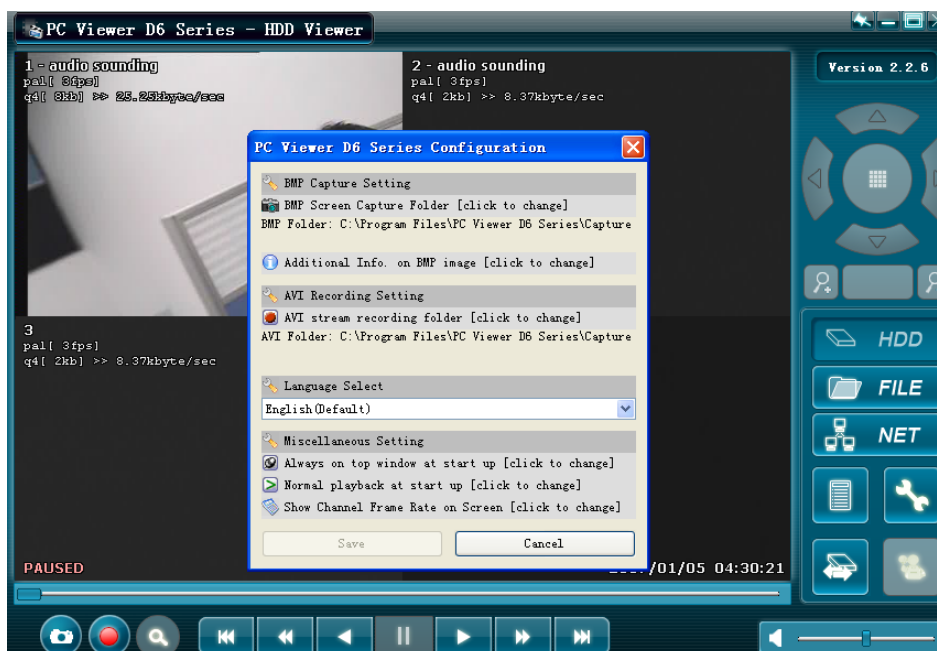
Then you could double click “  ” icon on your desktop to run the program.


Note: if you do not follow above steps, the program will fail to detect HDD

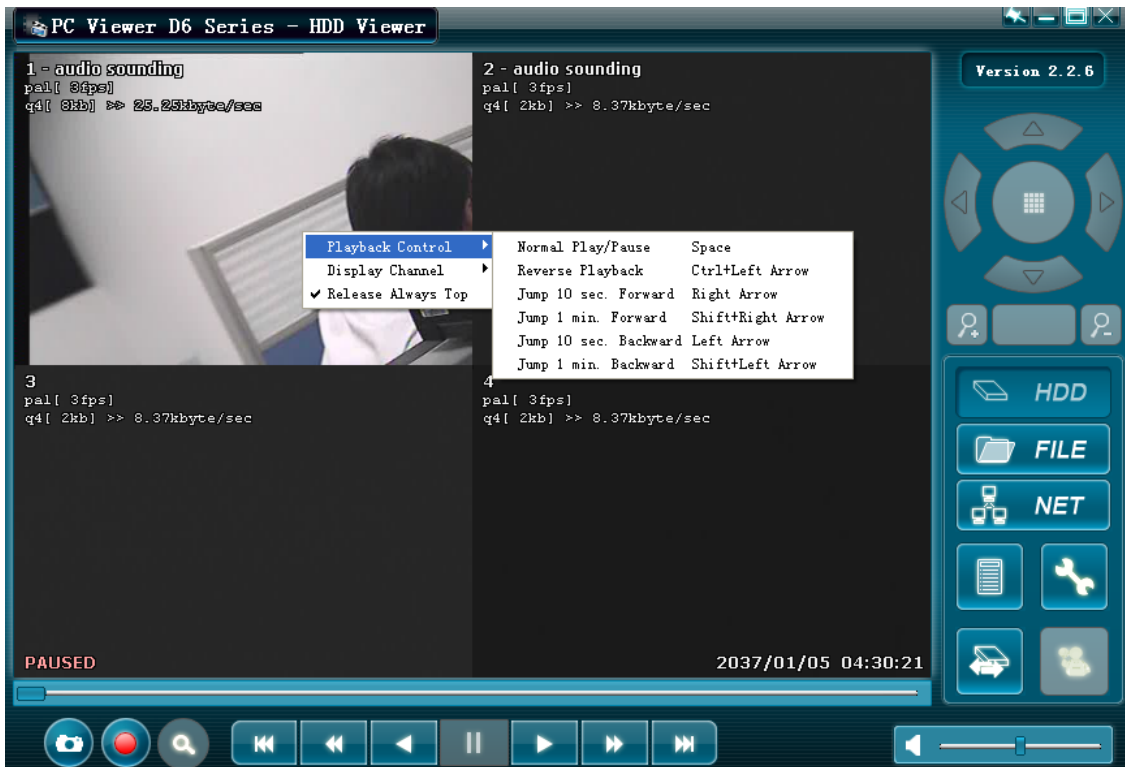
Press  to open the video event lists.




Press  to configure the program local setting



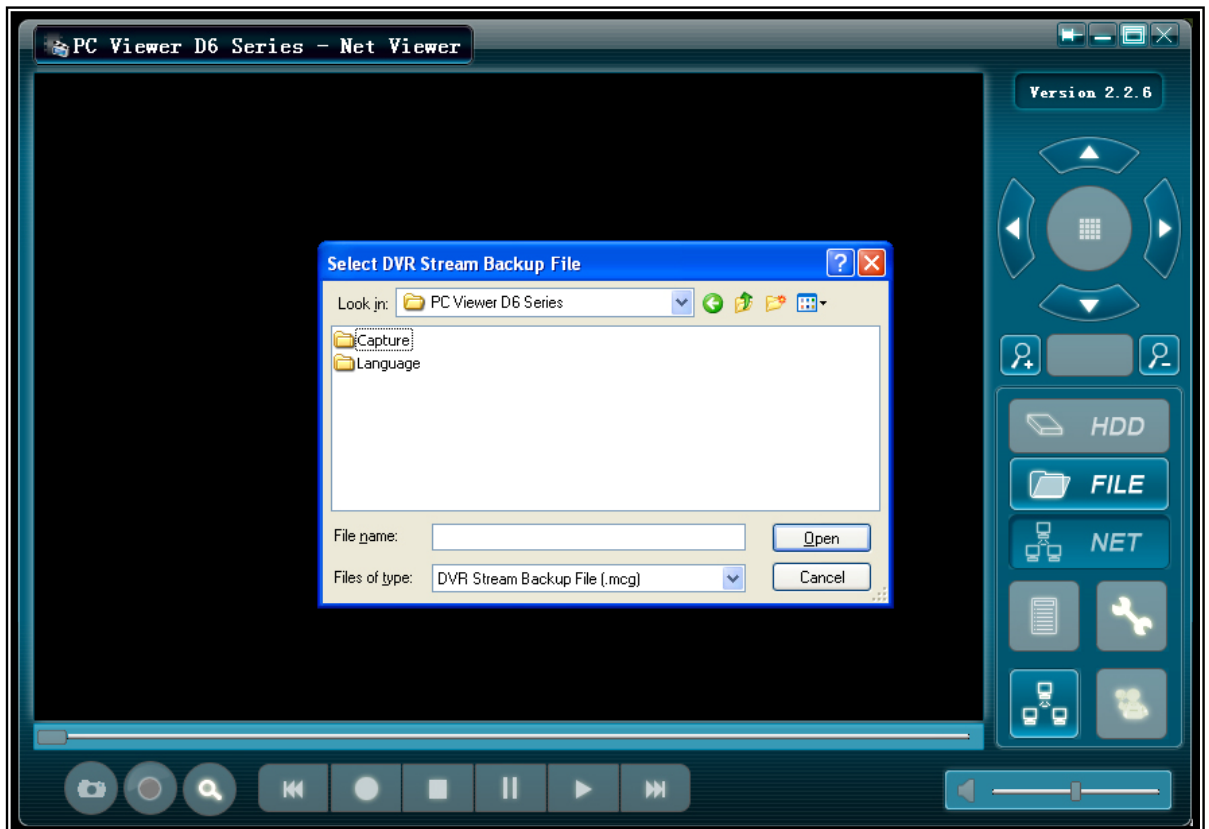
Press  to play video.



FILE play mode: (only when you plug a USB Memory Stick into your PC)

Press “ FILE” to open a folder and select the file you want play.

Double click the file.

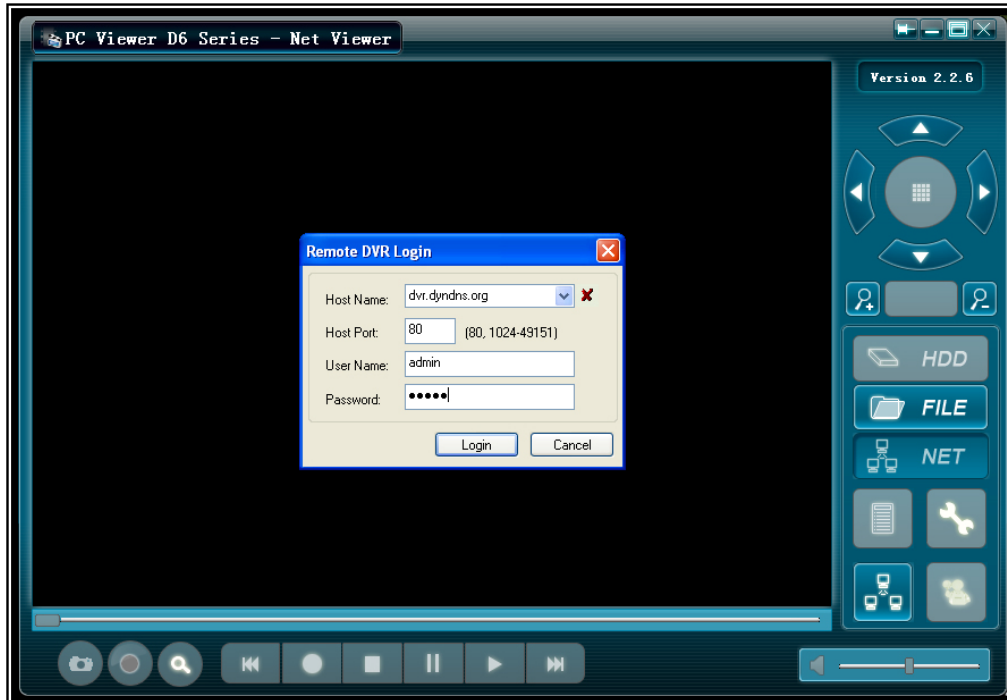


NET play mode:

This mode allows you to remote control your DVR via Internet.

Press “ NET” to pop up the login window.

Fill in Host Name, Host Port, User Name and Password. Press Login.



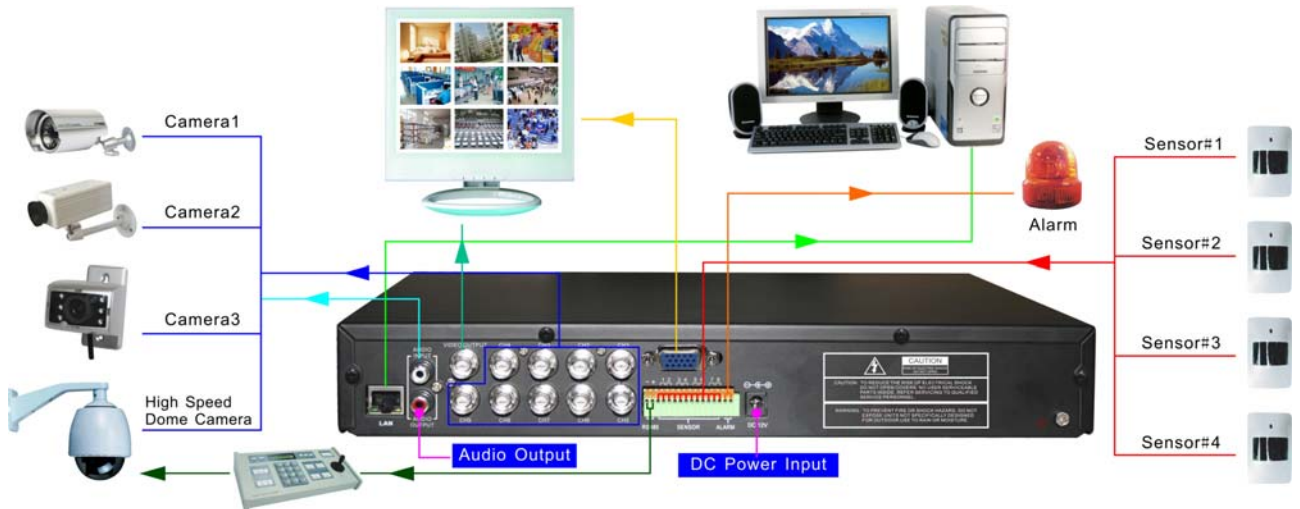
Chapter 10: Specification

4 / 9-Channel DVR

Items	Descriptions	
Video Standard	NTSC/PAL	
Video Input/Output	4 Channels/2 Channels, 9 Channels/1 Channel	
Audio Input/Output	2 Channels/2 Channels, 1 Channel/1 Channel	
Monitoring	Resolution	NTSC:720X480@30fps(Each Ch)
	Features	Full-D1, 1-CH/4-CH/9-CH Display
Recording	Resolution	NTSC:720X240@60fps(4/9Ch.Total)
	Features	Variable Frame Rate/Variable QL per
	Quality	4-Level(Highest, High, Normal, low)
Audio	ADPCM2 CODEC	
Video	MPEG4	
Motion Detection	Settable Window/Level	
Microprocessor	32-bit RISC Processor	
Network Interface	TCP/IP(RJ45)	
Network Monitor	IE(Internet Explorer)	
PTZ Interface	RS485	
USB Interface	USB2.0	
VGA Output	Optional	
Remote control	IR remote control	

Chapter 11: Appendix

11.1 System connection diagram



11.2 Accessories



Power Cord



Power Adaptor



User's Manual



Guarantee Card



Quality Cert.



CD Disk



Remote Controller



Batteries for RC



Screws



USB Cable

China prints 2008.7

V1.0

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