

Digital Video Recorder

KA-6804

User Manual

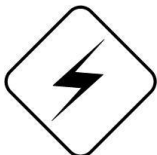
Version: 1.1

Date: April 06, 2009

WARNINGS, CAUTION & COPYRIGHT

WARNINGS

Reduce the risk of fire or electric shock. And do not expose this product to rain.
Do not insert any metallic object through ventilation grills.

CAUTION	
	
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to presence of insinuated “dangerous voltage” within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons	The exclamation point within an equilateral rhombus is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying product.
RISK OF ELECTRIC SHOCK DO NOT OPEN	
TO REDUCE TE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE	

USER OF THE SYSTEM ARE RESPONSIBLE FOR CHECKING AND COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND STATUTES COIPCERNING THE MONITORING AND RECORDING OF VIDEO AND AUDIO SIGNAL. ULTRAK SHALL NOT BE HELD RESPONSIBLE FOR THE USE OF THIS SYSTEM IN VIOLATION OF CURREENT LAWS AND STATUTES.

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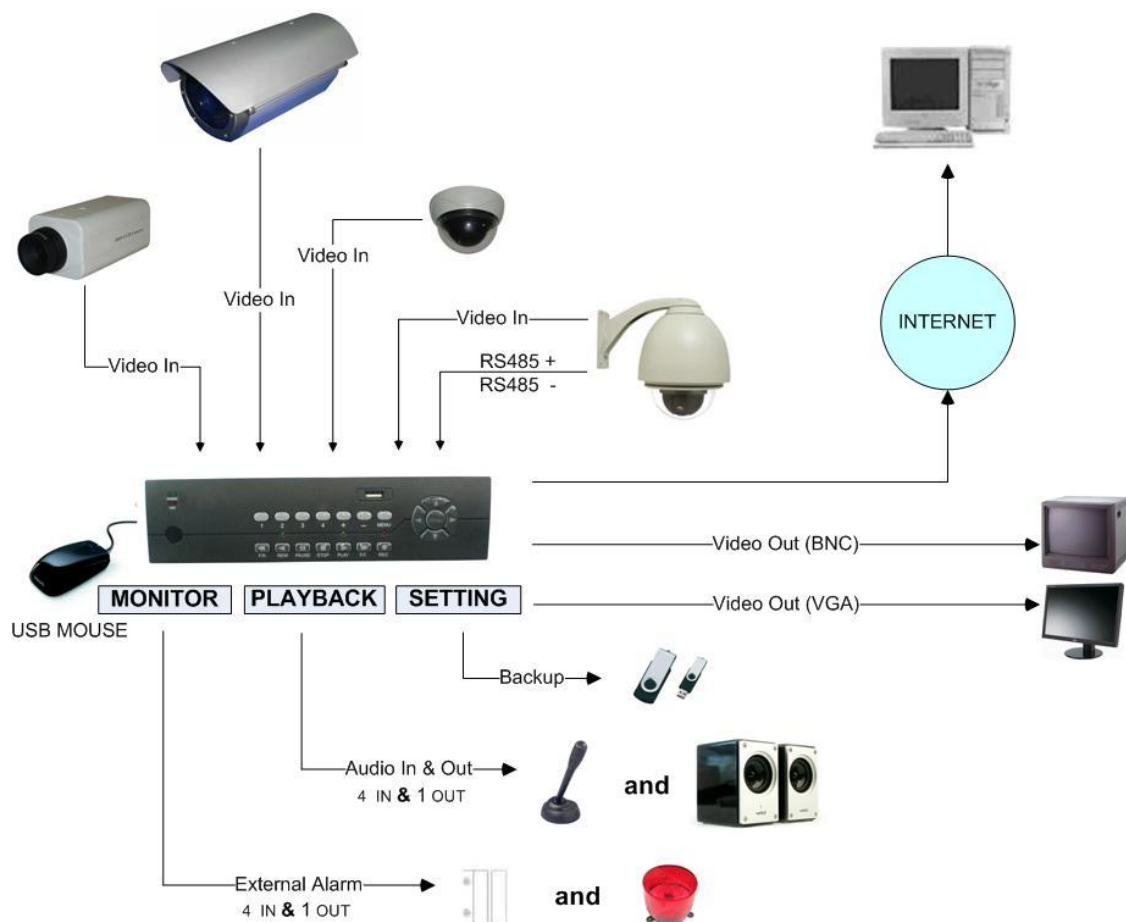
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1. Introduction

1.1 Illustration

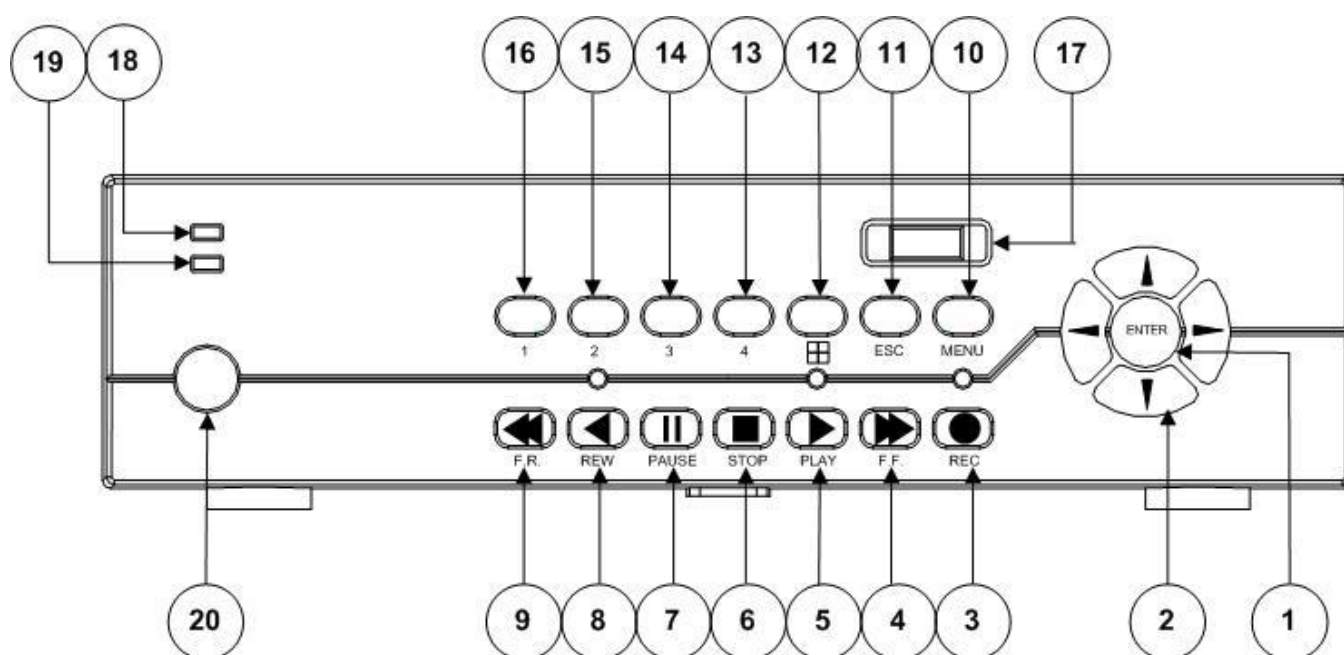
The system is the 4 Channel Digital Video Recording System (DVR). System designed with new compression format to H.264 mode. Because of the H.264 compression is the “Advanced Video Coding”. The surveillance system combine with the HDD recorder, the video/audio multiplexer, and web server

Basic operation mode include: MONITOR, PLAYBACK and SETTING. The system designed with simply operation mode to use the mouse and GUI interface or IR remote controller to operate the function and setting. The DVR can support multiple works like view images, recording, playback and remote control at the same time.



2. Hardware Overview

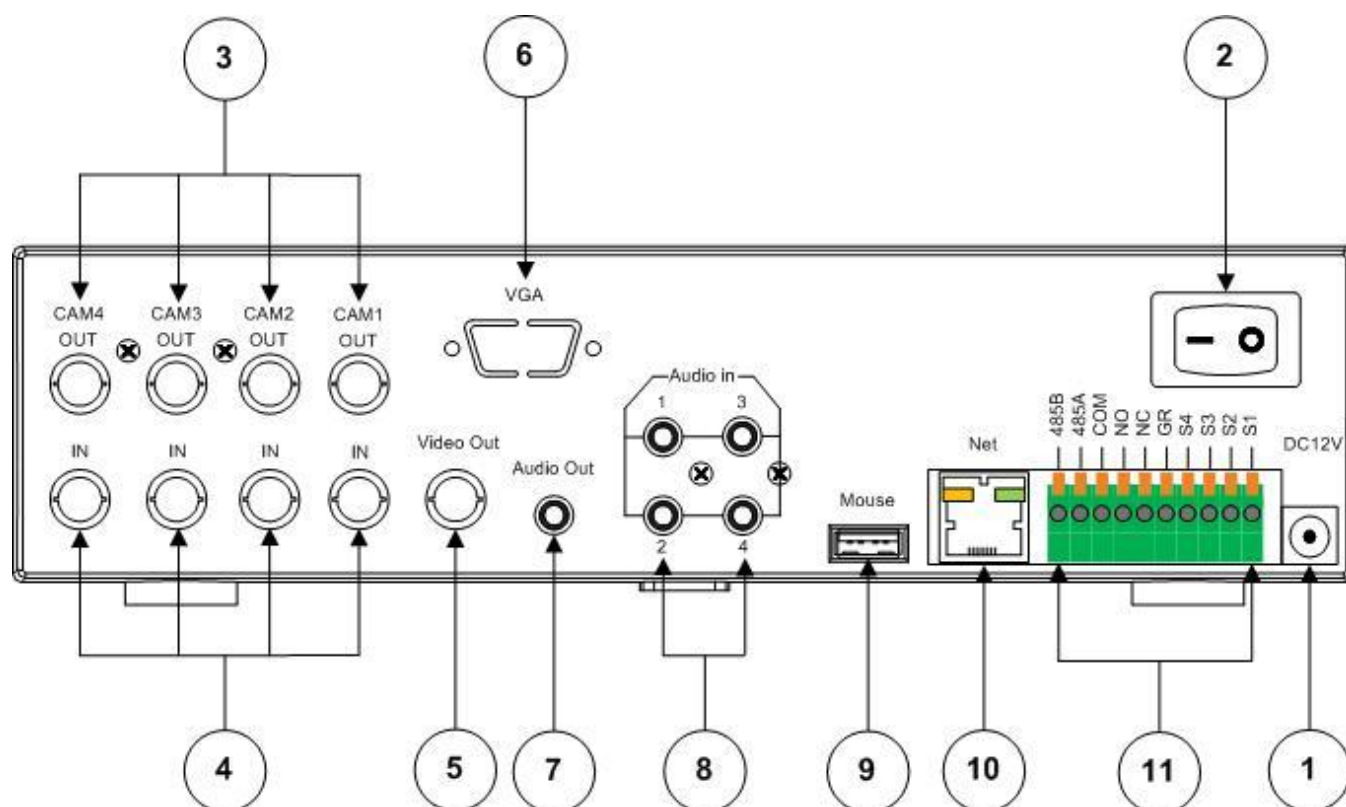
2.1 The 4 Channel Front Panel



Function Interface

1	ENTER	8	Rewind	15	CH2 Display
2	Direction Control	9	Fast Rewind	16	CH1 Display
3	Recording	10	MENU	17	USB Backup
4	Fast Forward	11	ESC	18	POWER LED
5	Play	12	QUAD/PIP Display	19	HDD LED
6	Stop	13	CH4 Display	20	IR Receiver
7	Pause	14	CH3 Display		

2.2 The 4 Channel Back Panel



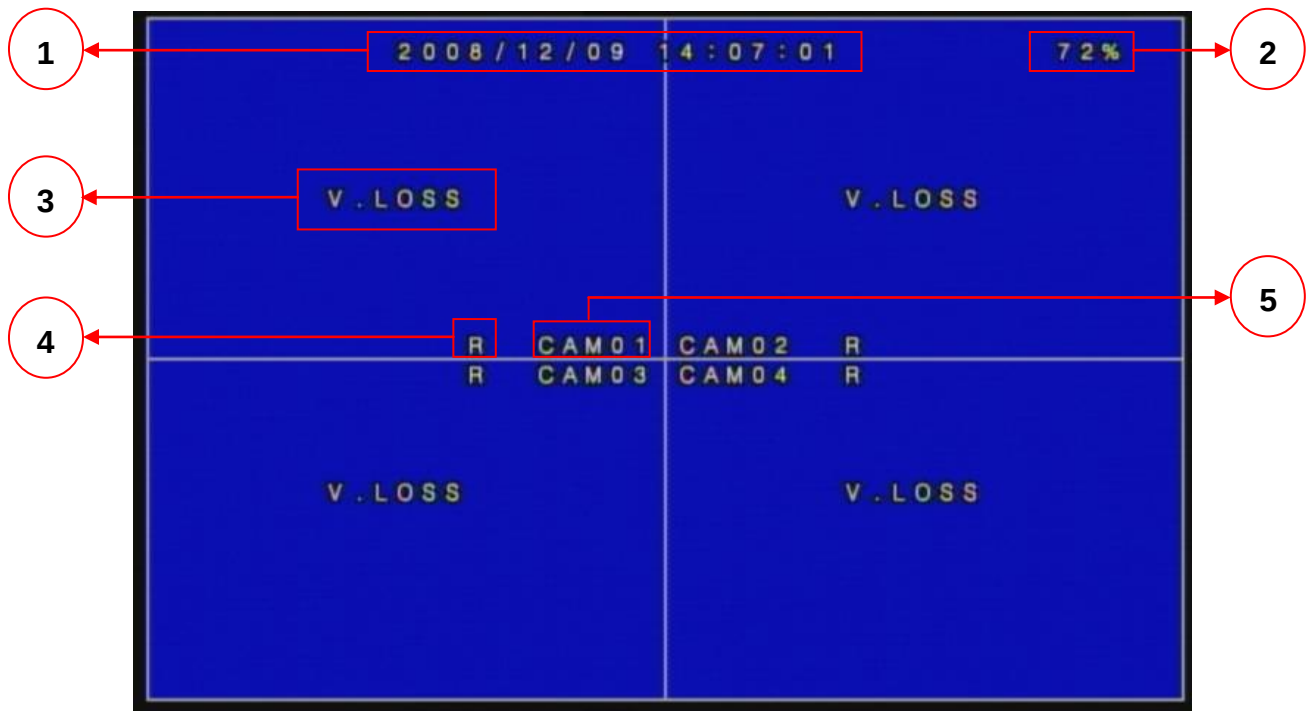
Hardware Interface

1	DC 12 V Power Adapter	7	Audio Output
2	Power Switch ON/OFF	8	Audio input (1~4 CH)
3	CAM Loop (1~4 CH)	9	USB Mouse
4	CAM Input (1~4 CH)	10	RJ45 Connector
5	Video Out to Monitor	11	Extra Alarm Connector & RS485
6	VGA Connector		

2.3 Monitor Display Illustration

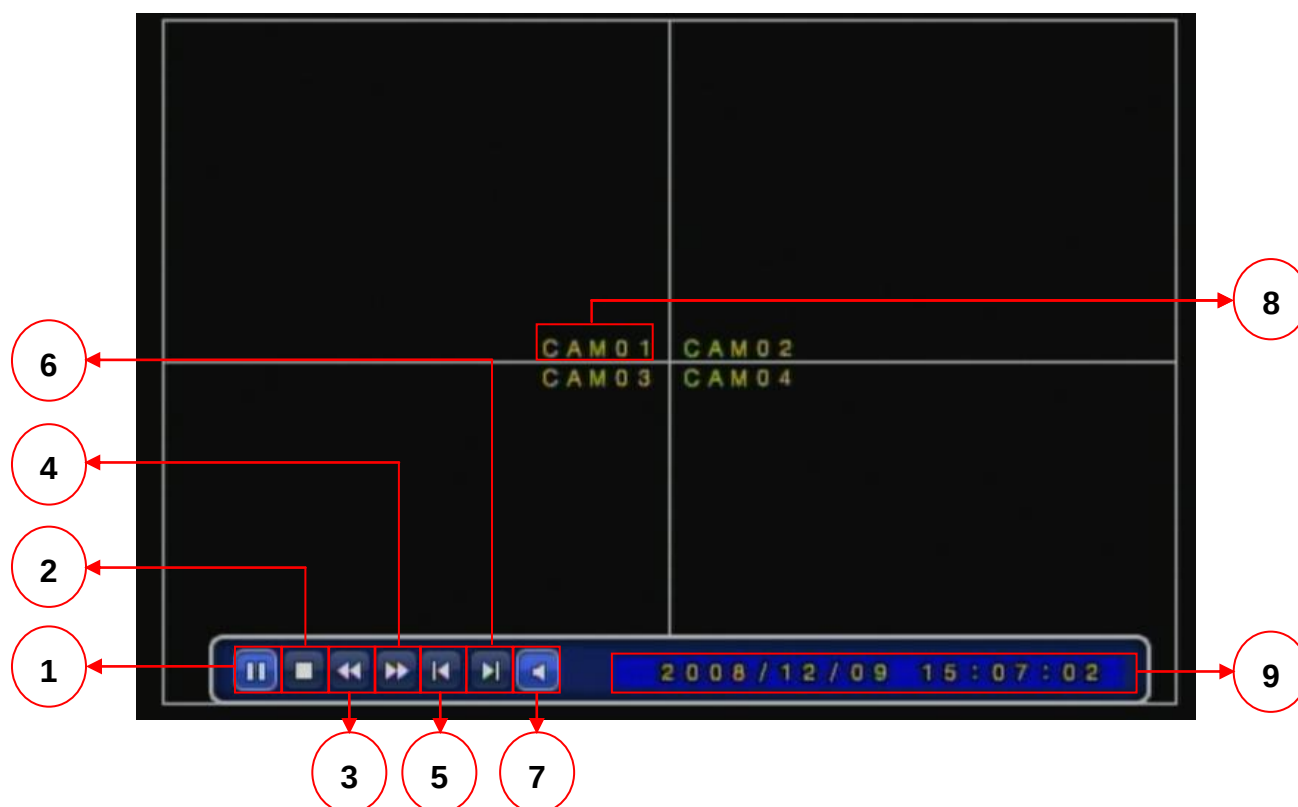
The Chapter will explain the screen display illustration. Please follow the diagram as below:

2.3.1 MONTOR Mode



Screen Display illustration		
Number	Item	Explanation
1	Date / Time	Show the date and time information.
2	HDD Information	Show the HDD to remain space.
3	Video Detection	Show the video loss information.
4	REC State	Show the status of Record.
5	Cam Name	Show the camera name.

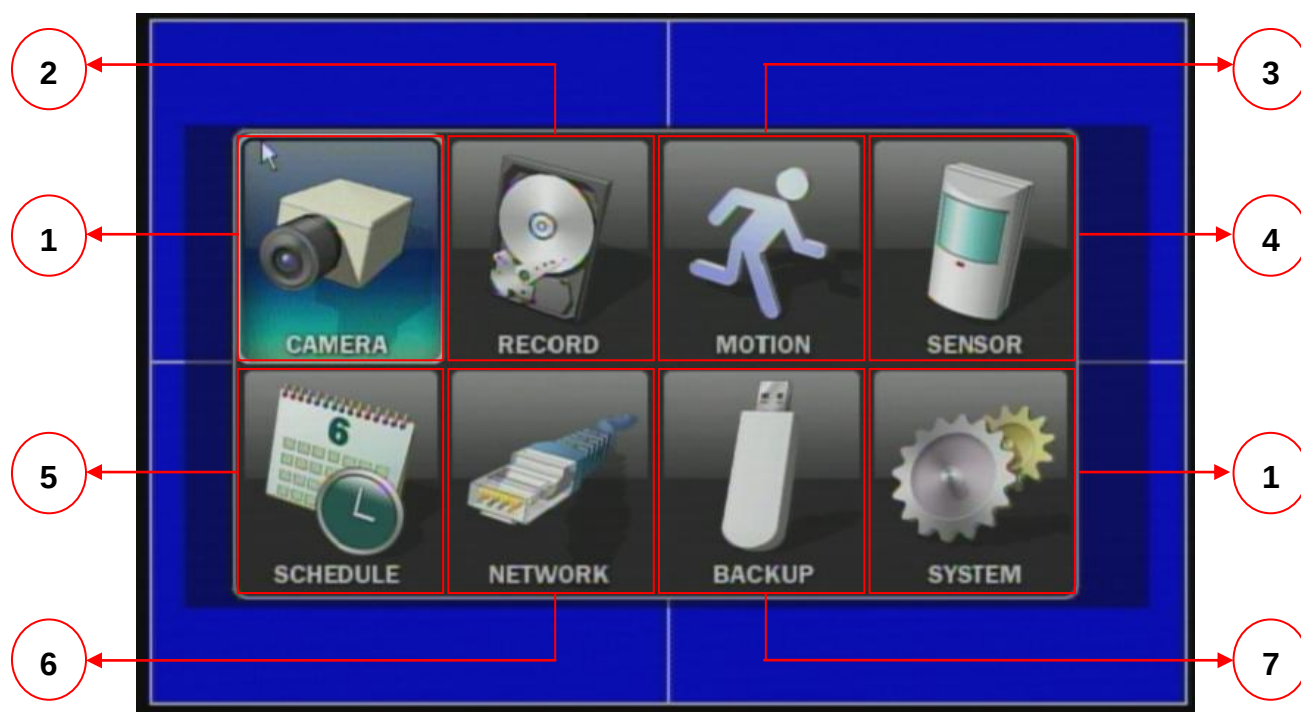
2.3.2 PLAYBACK Mode



Screen Display illustration

Number	Item	Explanation
1	Play/Pause	Play or pause the recording image
2	STOP	Stop the recording image.
3	Fast Rewind	Adjust the speed to rewind: X2,X4 and X6
4	Fast Forward	Adjust the speed to forward: X2,X4 and X6
5	File to File	Forward the picture through File to File
6	File to File	Rewind the picture through File to File
7	Audio	Enable or disable the audio function
8	Cam Name	Show the camera name.
9	Date / Time	Show the recording date and time information.

2.3.3 SETTING Mode



Screen Display illustration

Number	Item	Explanation
1	Camera	Enter the camera setting
2	Record	Enter the record setting
3	Motion	Enter the motion setting
4	Sensor	Enter the sensor setting
5	Schedule	Enter the schedule setting
6	Network	Enter the network setting
7	Backup	Enter the backup setting
8	System	Enter the system setting

NOTE :

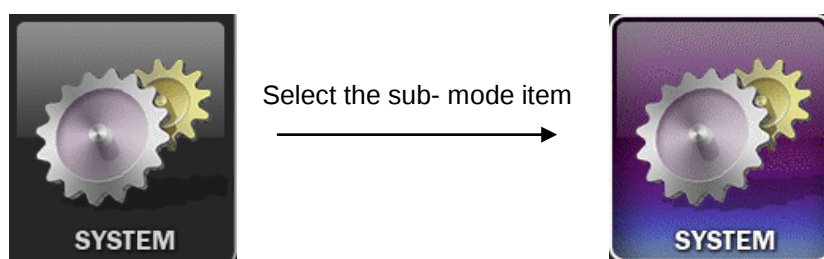
Please make reference to the chapter of **4 Function Setting** for further detailed description.

2.4 Basic & Function Control Illustration

The Chapter will explain how to use the front button function. Please follow the illustration item as below:

MENU Button:

In the “MONITOR” mode, press the “MENU” button to enter “SETTING” mode. The “SETTING” mode offers 8 kinds of sub-mode. Please select the sub-mode through the “Control” button or Mouse. The sub-mode background will change color and have the white frame. The default selection is “CAMERA”.



In the “SETTING” mode, the “MENU” button function will change to SAVE function. If you press the “MENU” button in the sub-mode, the setting value will save to DVR system.

NOTE :

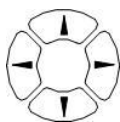
The “MENU” button has other function in the different mode; The detailed explanation of “MENU” button will be illustrated in every chapter.

ESC Button :

In the “SETTING” mode, the “ESC” button function will change to EXIT function. If you press the “ESC” button in the “SETTING” mode, the system will return to “MONITOR” mode. If you press the “ESC” button in the sub-mode, the setting will return the back page.

NOTE :

The “ESC” button only provides the “EXIT” function, so it does not save the values automatically. Please remember to use “MENU” button to save the values after change the setting.

**Control Button:**

In the “SETTING” mode, you can select the setting item through “”, “”, “” or “” Button.

**ENTER Button :**

In the “MONITOR” mode, the “ENTER” button function is the same the mouse button of right.

In the “SETTING” mode, enter the sub-mode or other setting item. However, the “ENTER” button will provide different function under other function mode.

NOTE :

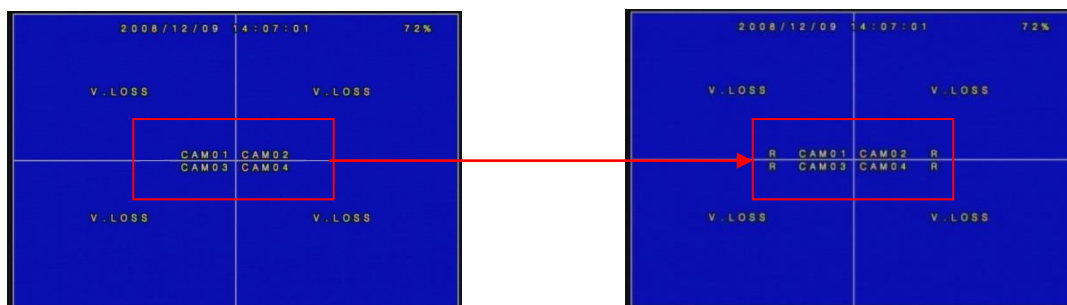
The detailed explanation of “ENTER” button will be illustrated in every chapter.

2.4 Playback Control Interface

The Chapter will explain How to use panel button for playback function. Please follow the item illustration as below:

**REC:**

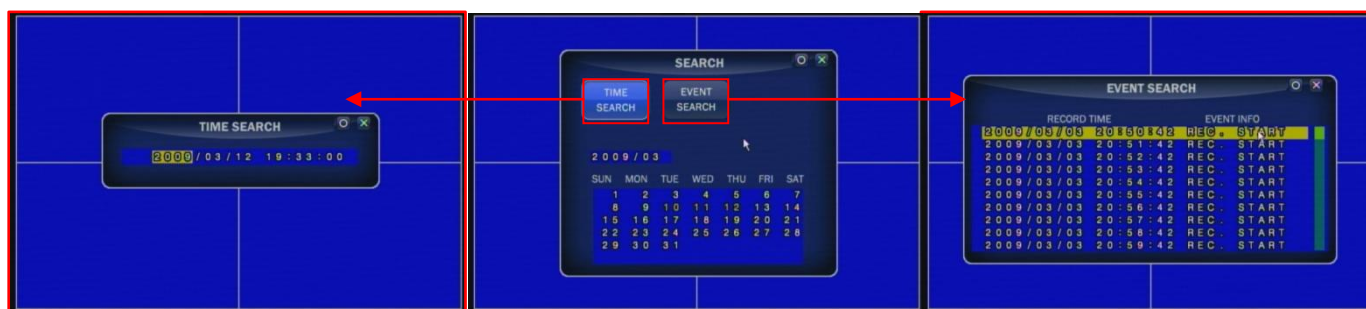
The DVR support double working. You can control and record or control and playback at the same time. If the recording function works, the Record LED will become red. And the screen will display the “R” sign near camera name. According the record setting of DVR, Press the button then the recording function will be start or cancel.

**NOTE :**

There are four kinds of recording mode for DVR: Normal, Motion, Sensor and Schedule

Play:

Use the search function to enter the PLAYBACK mode. The screen image will be change to recording mode of TIME SEARCH and EVENT SEARCH state. Select the mode to enter then viewing record image.



You will see the “PLAYBACK BAR” on the lower-down side of monitor. Press the PLAY button or click the function button through the left mouse button to view the recording image. The play and pause button is the same button in the “PLAYBACK BAR”.



NOTE :

If you enter the PLAYBACK mode, the recording image will start to play.

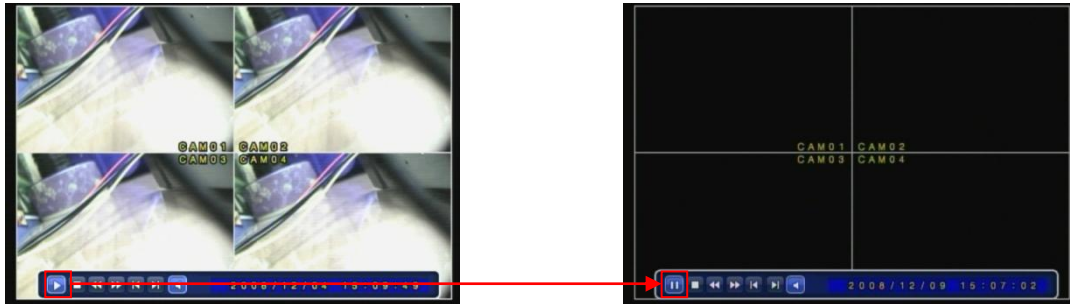
Rewind:

In the “PLAYBACK” mode, press the REW button to rewind the recording image. The “PLAYBACK BAR” is not support the rewind sign. You only use the function from front panel.

Pause:

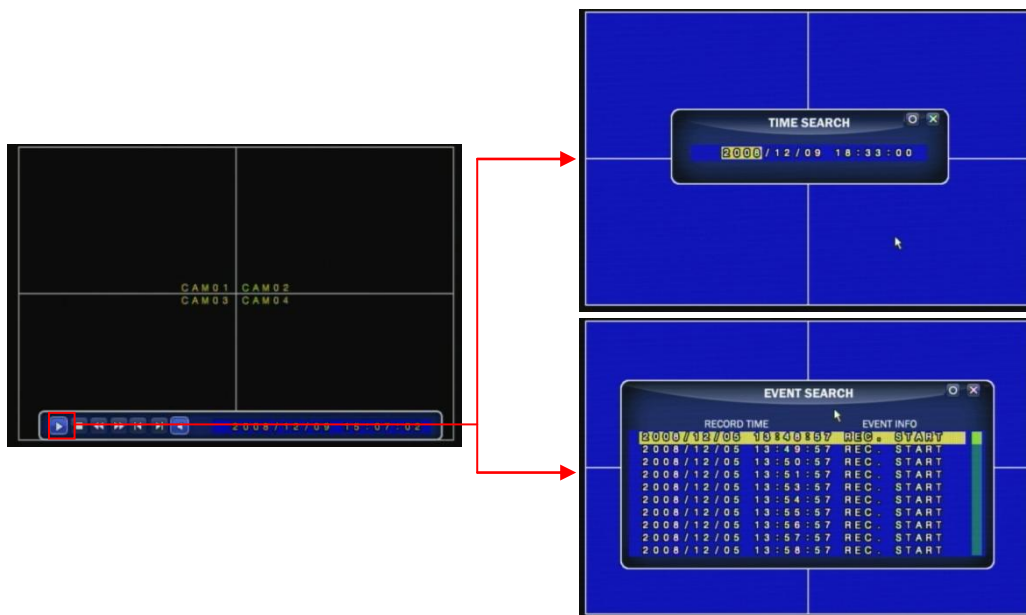
In the “PLAYBACK” of “Play State” or “Rewind State”, press the PAUSE button or click the function button through the left mouse button to pause the recording image directly. The play and pause button is the same button in the “PLAYBACK BAR”.

If you press the button to the “Fast Rewind” or “Fast Forward” button, the DVR mode will go back to the “Play State” or “Rewind State” to play the recording image on 2X speed.



Stop:

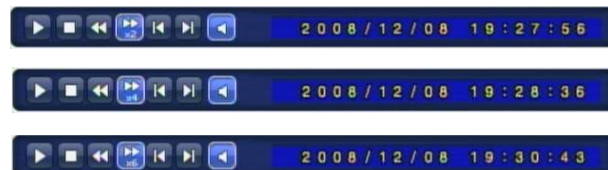
In the “PLAYBACK” mode, you can press the STOP button anytime to go back to the Search Mode. The Search Mode will display according to the customer use the search method. You also can use the mouse to enable the function too





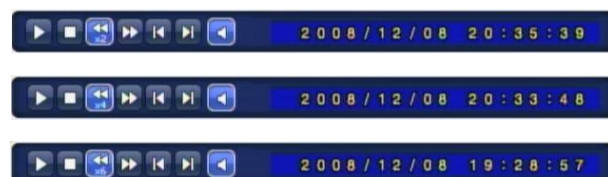
Fast Rewind:

In the “PLAYBACK” mode, Press the F.R. button or click the function button through the left mouse button to change the image rewind speed: X2, X4 and X6. If you change the speed, you will see the speed sign on “PLAYBACK BAR”.



Fast Forward:

In the “PLAYBACK” mode, Press the F.F button or click the function button through the left mouse button to change the image forward speed: X2, X4 and X6. If you change the speed, you will see the speed sign on “PLAYBACK BAR”.



NOTE :

If you need to know how to enter the PLAYBACK Mode, please make reference to the chapter of **3. Quick Setting List** for further detailed description.

Filed to Filed of Rewind:

Click the button to display the recoding picture. The DVR will display the rewind picture.

Filed to Filed of Forward:

Click the button to display the recoding picture. The DVR will display the forward picture.

Mute:

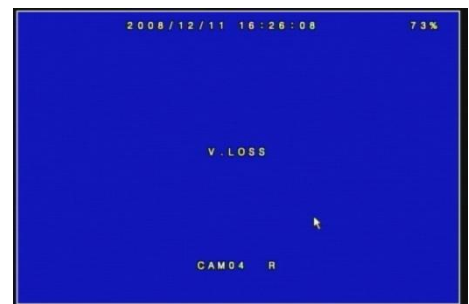
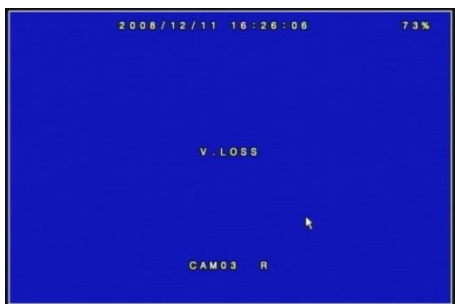
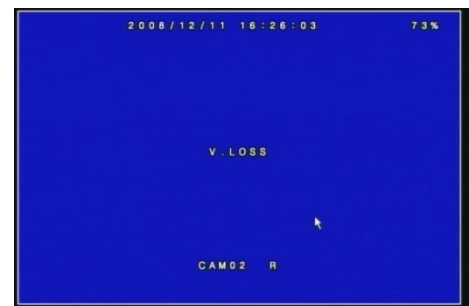
Click the button to enable/disable the audio function.

2.5 Image Display Mode

User can change the different viewing mode in the “MONITOR” mode. The DVR provides 4 kinds of viewing mode: full format, PIP and QUAD.



You can view the channel of full format through 1~4 button. Press the channel button or double click the left mouse button on channel to change the display mode to full format. If you change the speed, you will see the speed sign on “PLAYBACK BAR”.



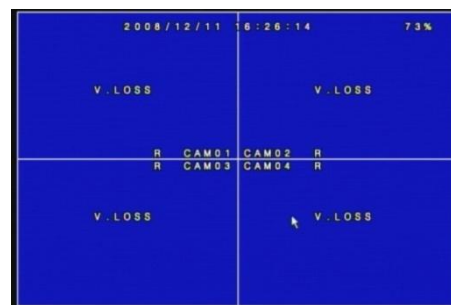
QUAD:



The DVR can be three types of QUAD, P1P1 and P1P2. Press the QUAD button to change the display type.

QUAD:

If you want to view the QUAD format, press the QUAD button to change to QUAD mode.



P1P1:

In the QUAD mode, press the QUAD button again to change to P1P1 mode. According to your mouse location, you can use the scroll wheel button of mouse to change the main frame or minor frame channel.



P1P2:

In the P1P1 mode, press the QUAD button again to change to P1P2 mode. According to your mouse location, you can use the scroll wheel button of mouse to change the main frame or minor frame channel too.



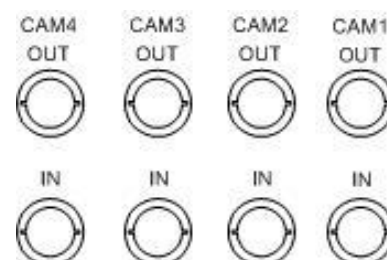
NOTE :

You also can use the "Quick Setting List" function to change the mode, please make reference to the chapter of **3 Quick Setting List** for further detailed description.

2.6 Video Input and Loop

The DVR provides 4CH CAM input and loop channels. The connection is the BNC interface.

The DVR does not provide the ohm switch button; because it will automatic detect the DVR state. If the CAM output connects any devices, the DVR will change the ohm to support the monitor or DVRs.



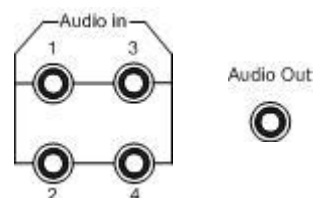
2.7 Video Output

You can see the image of DVR through the video out. The connection is the BNC interface.



2.8 Audio Input and Output

Connect audio IN or OUT devices through RCA interface. The DVR provide the 4 audio IN for 4 channels and the 1 audio out. You can save the volume from the audio IN, but you need to enable the audio function from DVR setting.



Audio IN: Extra connect other devices or microphone.

Audio OUT: Extra connect other devices or loudspeaker.

NOTE :

The Audio function cannot guarantee power issue. Please notice whether the microphone spec can use or not.

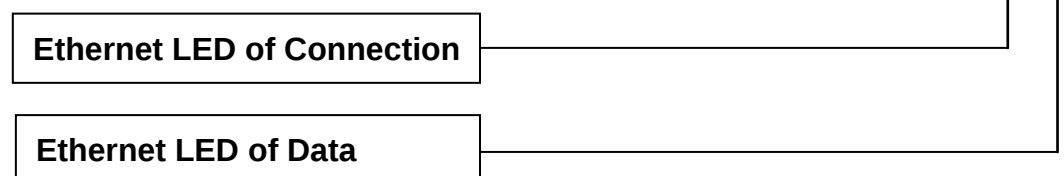
2.9 VGA

You can to view the image through LCD monitor through VGA connecter. Please make reference to the chapter of **X.X VGA Function** for further detailed description.



2.10 Network Function

You can view the DVR image through “**IE Browser**” support remote control and remote recording function. There are three types of network mode: STATIC IP, DHCP and PPPoE.



Ethernet LED of Connection : The LED is bright after RJ45 connecter link succeed.

Ethernet LED of Data : When data transmit, the LED will bright.

2.11 Mouse

You can use the mouse to operate the DVR. So It will like the PC operation and convenient.

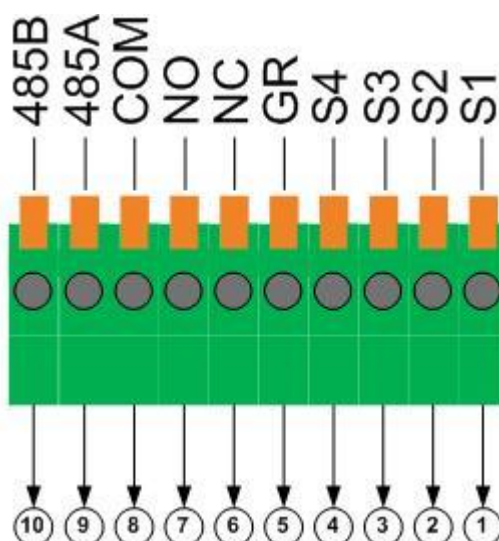


NOTE :

The USB Mouse need to support the PS/2 protocol and you must set up the mouse before the DVR power on.

2.12 Extra Interface

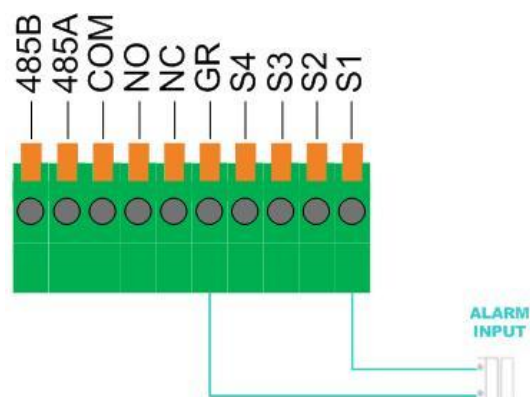
The extra interfaces supply PTZ, four trigger in and one trigger out alarm device. The DVR only receive TTL/COMS alarm signal that the LOW & HIGH of potential or the N.O & N.C state.



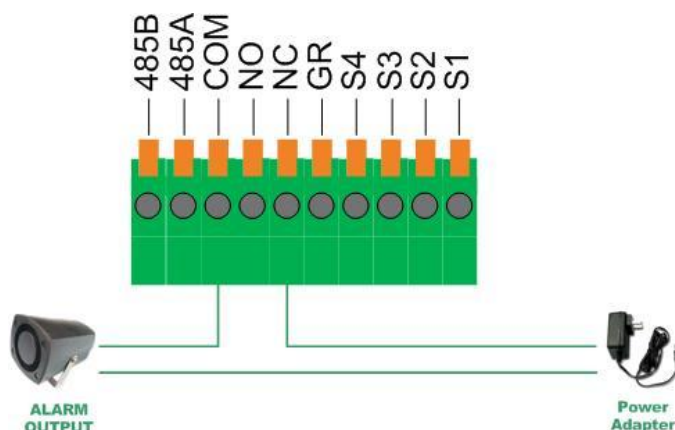
Extra ALARM Connector		
PIN	Name	Definition
1	S1	Alarm Input 1
2	S2	Alarm Input 2
3	S3	Alarm Input 3
4	S4	Alarm Input 4
5	GR	GND
6	NC	Alarm Output N.C
7	NO	Alarm Output N.O
8	COM	Relay COM
9	485A	RS485+ for PTZ
10	485B	RS485- for PTZ

ALARM INPUT :

You can connect four extra alarm inputs. The extra device connects one for the alarm input, the other for GND. The security setting could support N.C or N.O function.

**ALARM OUTPUT :**

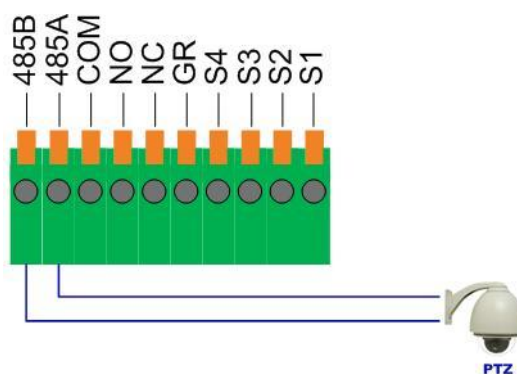
You can connect one extra alarm output. The extra device connects one for N.C. or N.O of the alarm output, the other for GND. Because of the DVR cannot supply any power for extra device, you can connect the power adapter through COM to provide electric power. When alarm trigger, the alarm output will work.

**NOTE :**

After the alarm device set up finish, you need to enable the alarm setting function. Please make reference to the chapter of **4.4 SENSOR**

PTZ (Speed Dome) :

The DVR support the PTZ camera to install. You only attach the control line to RS485 connector first. And then set up the power adapter and video in to finish the hardware setting. You can select the video in channel by yourself. Please make reference to the chapter of **4.1.4 PTZ Protocol** for further detailed description.

**NOTE :**

The DVR support the three types speed dome: Pelco P, Pelco D and LILIN. The default bps speed is the 9600.

3. Quick Function Setting

In the “MONITOR” mode, click the right mouse button to enable the “Quick Function Setting” list. And there are nine kinds of the setting for the customer. Let you use the mouse to operate easily and conveniently. You also can press the “ENTER” button to open the “Quick Function Setting” list in the “MONITOR” mode.

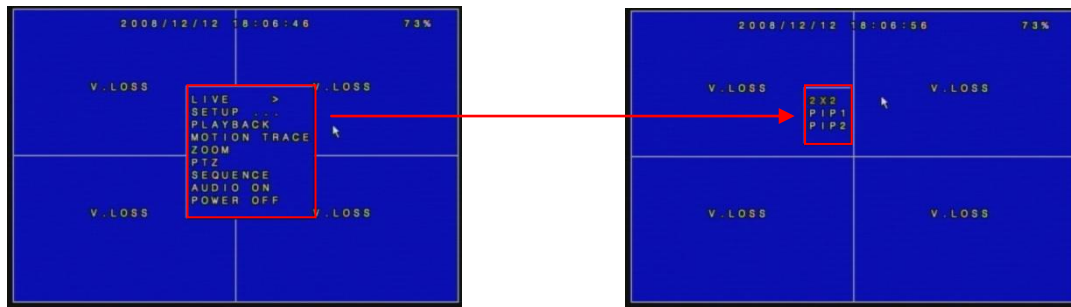


Screen Display illustration

Number	Item	Explanation
1	LIVE	Change the Live view mode: QUAD, P1P1 and P1P2.
2	SETUP...	Enter to “SETTING” mode
3	PLAYBACK	Enter to “PLAYBACK” mode
4	MOTION TRACE	Enable/Disable the motion trace function
5	ZOOM	Enable/Disable the digital zoom function
6	PTZ	Enable/Disable the PTZ function
7	SEQUENCE	Enable the SEQ function
8	AUDIO ON/OFF	Enable/Disable the AUDIO function
9	POWER OFF	Shutdown the DVR

3.1 LIVE

After select the “LIVE” function though mouse, the systems will pop-up the other function windows. You can click the function button through the left mouse button to change the view mode including: QUAD, P1P1 and P1P2.

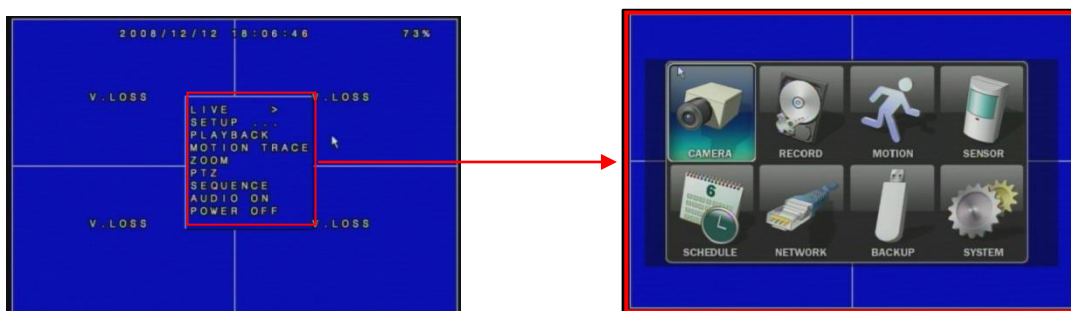


NOTE :

If you want to know the format of view mode, please make reference to the chapter of **2.5 Image Display Mode**.

3.2 SETUP...

After select the “SETUP...” function though mouse, you will change the mode to “SETTING” mode. You can set up the function quick and handy. You also press the “MENU” button to enter the “SETTING” mode.

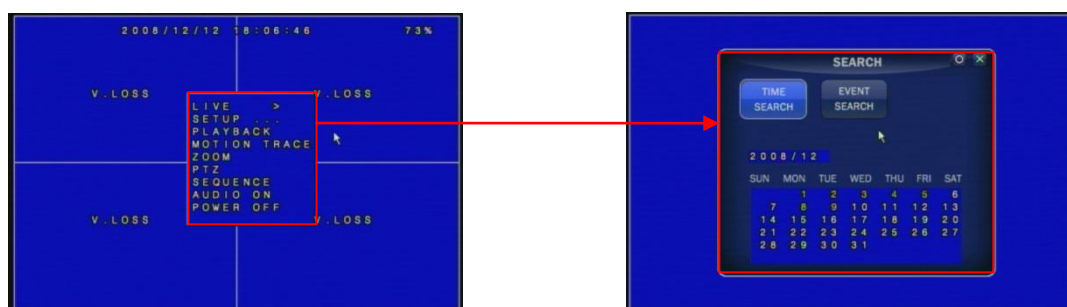


NOTE :

If you want to know the detail, please make reference to the chapter of **4 Function** for further detailed description

3.3 PLAYBACK

After select the “PLAYBACK” functions through mouse, the systems will pop-up the SEARCH windows. You can select the TIME SEARCH or EVENT SEARCH to look for the recording image through the left mouse button.



NOTE :

If you want to know the detail illustration about PLAYBACK, please make reference to the chapter of **2.5 Image Display Mode**.

3.4 MOTION TRACE

Firstly, you need to enable the “MOTION ENABLE” and “MOTION TRACE” functions form MOTION Setting.



NOTE :

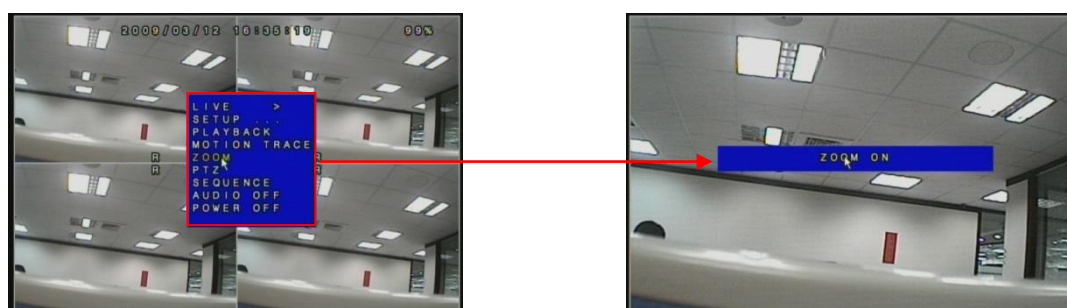
If you want to know the detail illustration about MONITOR Setting, please make reference to the chapter of **4.3 MOTION**

The MOTION TRACE of “Quick Function Setting” only displays the motion area state. You can check the motion detection area by yourself. After select the function of “MOTION TRACE” though mouse, the systems will show the MOTION TRACE ON/OFF message. When the motions detect some trigger, the motion area will become to red.



3.5 ZOOM

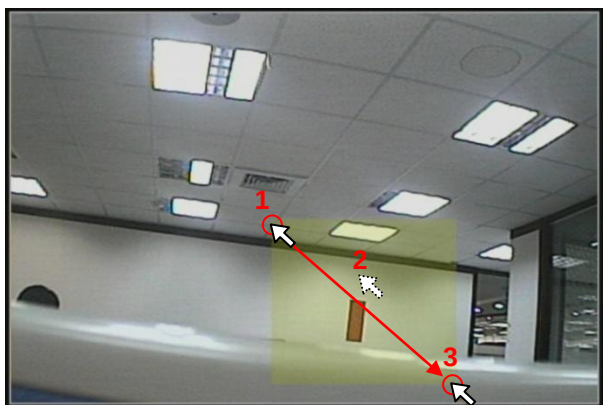
The ZOOM function only works on full format mode. You need to change the view mode first. After select the function of “ZOOM” though mouse, the systems will enter the ZOOM mode.



NOTE :

The ZOOM function is only used the mouse to operate.

Draw the mouse cursor from left top to right bottom. See the step number as below:



Click the right button of mouse to exit the ZOOM mode.

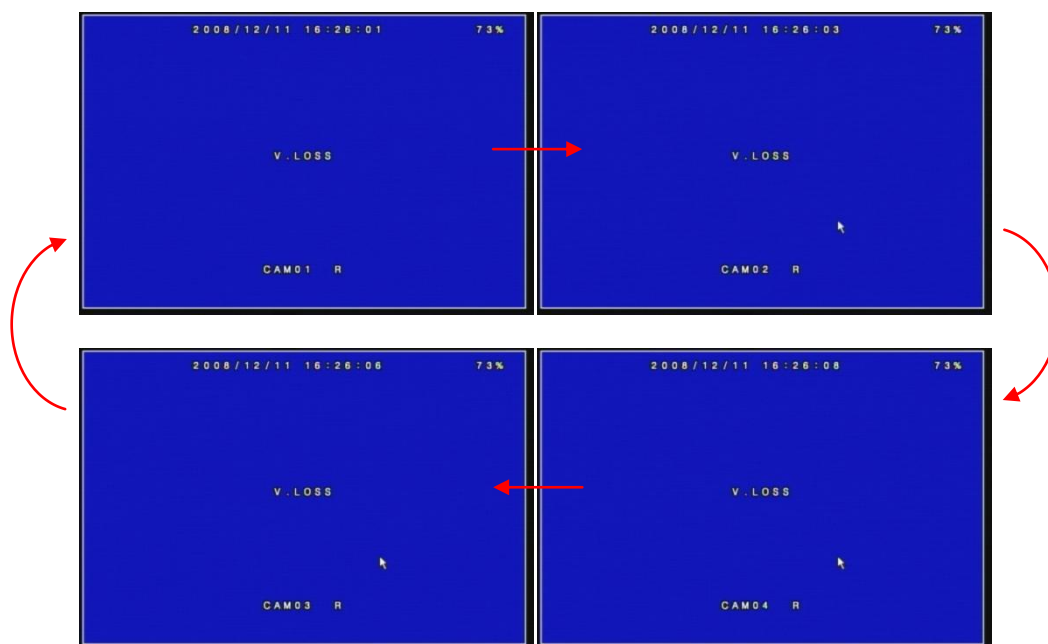
3.6 PTZ

After select the function of “PTZ” though mouse, the systems will pop up the control bar of PTZ. You can click the function through mouse or front panel. See the illustration of icon function as below:

PTZ function			
No	Illustration	Mouse action	Front Panel action
1	Change the PTZ lens into “UP” action	Click the button	Control (UP)
2	Change the PTZ lens into “Left” action	Click the button	Control (LEFT)
3	Change the PTZ lens into “Right” action	Click the button	Control (RIGHT)
4	Change the PTZ lens into “Down” action	Click the button	Control (DOWN)
5	Enable the ZOOM IN function	Click the button	Channel 1
6	Enable the ZOOM OUT function	Click the button	Channel 2
7	Enable the Focus add function	Click the button	Channel 3
8	Enable the Focus reduction function	Click the button	Channel 4

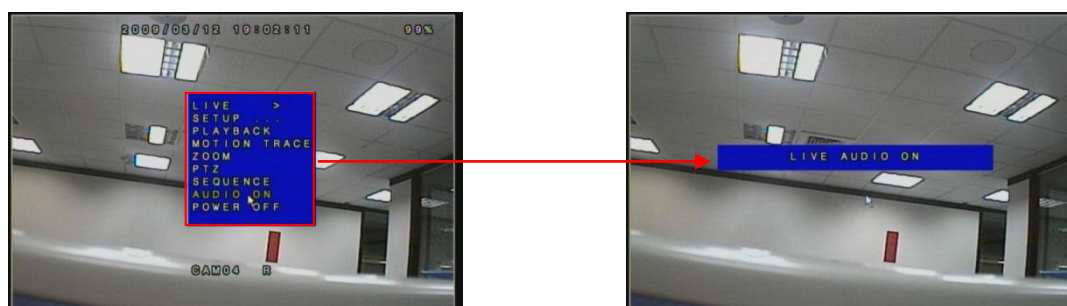
3.7 SEQUENCE

Click the SEQUENCE to go into the full screen auto switch mode, the default time is 5 seconds. You can change the switch time of monitor by yourself. Found on the chapter of **4.1.6 SEQUENCE TIME**.



3.8 AUDIO ON/OFF

The DVR provide the 4 input and 1 output audio function. The 1~4 audio function will direct to the 1~4 video. You can enable or disable the audio function from “Quick Function Setting”. The DVR will display the message of “LIVE AUDIO ON/OFF”. When you enable the audio function, you need to change the view mode to full format. Every channel will provide the sound from each the audio.

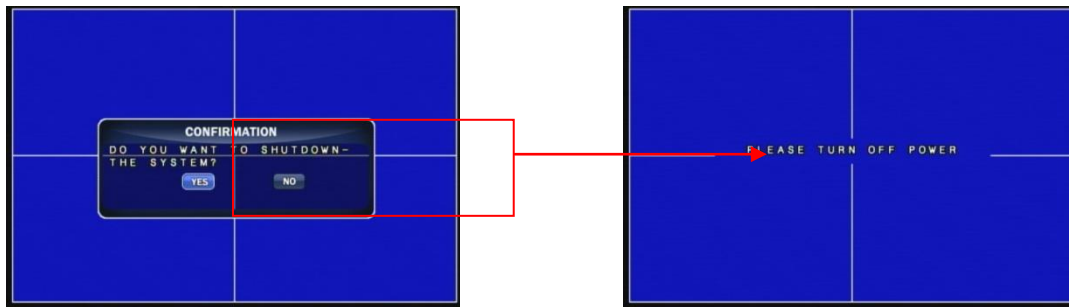


NOTE :

The system will automatically detect the audio state after leave main menu.

3.9 POWER OFF

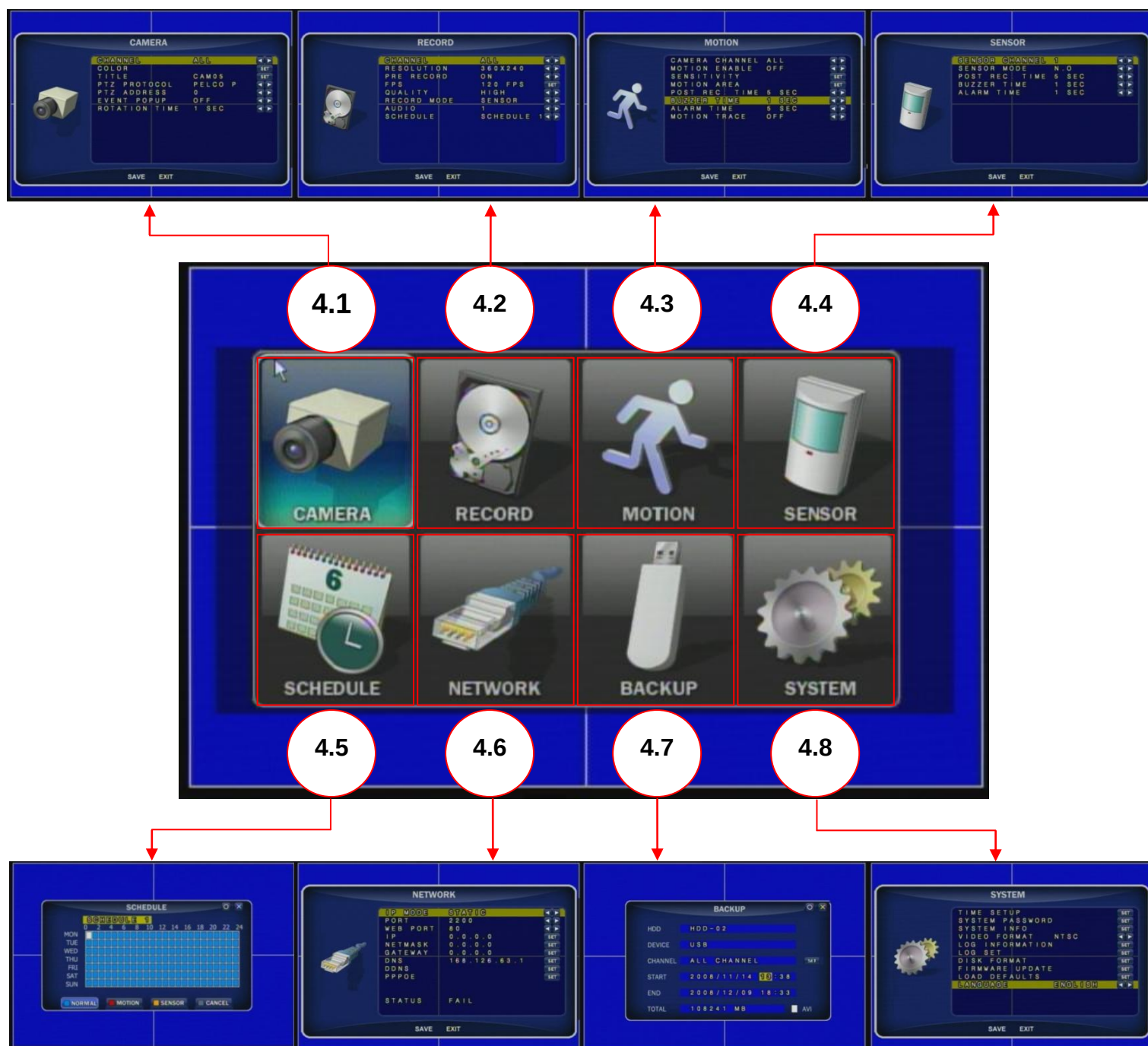
When you will want to shutdown the DVR, you need to click the “POWER OFF” selection first. The system will pop up the YES/NO box, please click “YES” to shutdown DVR. To wait the DVR display the “PLEASE TURN OFF POWER”. You can just turn off the switch power.

**NOTE :**

Because of the DVR of Embedded Linux is like the PC system. The “POWER OFF” function will protect the DVR recording date.

4. Function Setting

In the "MONITOR" mode, press the "MENU" button to enter the "SETTING" mode. You can also enter the SETTING mode through "Quick Function Setting" list. When the figure set up finish, please remember click the SAVE button to save the setting.



4.1 CAMERA



In the “SETTING” mode, select the “CAMERA” icon to enter the camera setting. You can click the function through mouse or front panel. Please follow the function illustration as below:

NOTE :

The mouse operation is like the PC and some figure adjustment need to use the scroll wheel button of mouse.

The front panel operation need to press the “Direction Control” and “ENTER” button.

4.1.1 CHANNEL

You can select the channel to set up the setting of camera. You can also select the “All” of channel to set up the setting of all cameras. Press the “Direction Control” button to changes the camera channel.

4.1.2 COLOR

Select the camera channel first, and then press the “ENTER” button to enter the color setting; there are four types of color setting: Contrast, Brightness, HUE, Saturation and Sharpness.



Press the “Direction Control” button to changes the figure to adjust the image performance. You also can use the scroll wheel button of mouse to change the figure.

NOTE :

The default figures of image are 50, the range from 0 to 99.

4.1.3 TITLE

Every channel can rename the camera title. The maximum setting character is the 8 bytes. Press “ENTER” button to enter the virtual keyboard mode. The virtual keyboard is design resembling the keyboard. You can select the letter then finish the designation then click the “ENTER” to go back CAMERA setting. Press the “Direction Control” button to operate the function. You also can use mouse to do it.



NOTE :

Click the SHIFT button to change the lowercase and capitalization formats.

4.1.4 PTZ PROTOCOL

Press the “Direction Control” button to select the PTZ protocol type. There are three types protocol for application: Pelco D, Pelco P and Lilin. After the finish, you need to go back the MONITOR to operate the PTZ camera. Press the “Direction Control” button to operate the 14function. You also can use the scroll wheel button of mouse to do it.

NOTE :

If you want to know the detail illustration of PTZ operation, please make reference to the chapter of **3.6 PTZ**.

4.1.4 PTZ ADDRESS

The PTZ address needs to set up the same figure with your PTZ camera. Please make sure the setting by yourself. If you set up the different figure between the DVR and the PTZ camera, the DVE may not control your PTZ camera. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.

NOTE :

The default figure of image is 0, the range from 0 to 255.

4.1.5 EVENT POPUP

When the DVR detect the motion or alarm, the DVR will change the view mode from QUAD format to full format. After the setting time, the view mode will go back the QUAD format. You can know the security detection through EVENT POPUP in the MONITOR. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.

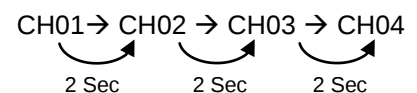


NOTE :

The default figure of image is 5 sec, the range from OFF to 10 sec.

4.1.6 SEQUENCE TIME

The SEQUENCE TIME function will affect the SEQUENCE function work Time. After the setting finish, please enable the SEQUENCE function form QUICK SETTING LIST. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.



NOTE :

The default figure of image is 5 sec, the range from OFF to 10 sec.

4.2 RECORD



In the “SETTING” mode, select the “RECORD” icon to enter the record setting. You can click the function through mouse or front panel. Please follow the function illustration as below:

4.2.1 CHANNEL

You can select the channel to set up the setting of camera. You can also select the “All” of channel to set up the setting of all cameras. Press the “Direction Control” button to changes the camera channel. You also can use the scroll wheel button of mouse to do it.

4.2.2 RESOLUTION

The DVR resolution can affect the recording image size. The resolution also affects the remote view speed too. There are 2 types recording resolution for user: FIELD and DVR (CIF) format. However, there is different size on the NTSC / PAL mode. Please see the illustration as below table. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.

Resolution				
DVR System	NTSC		PAL	
Image Size	Half-D1	CIF	Half-D1	CIF
	720x240	320x240	720x288	320x288

4.2.3 PRE RECORD

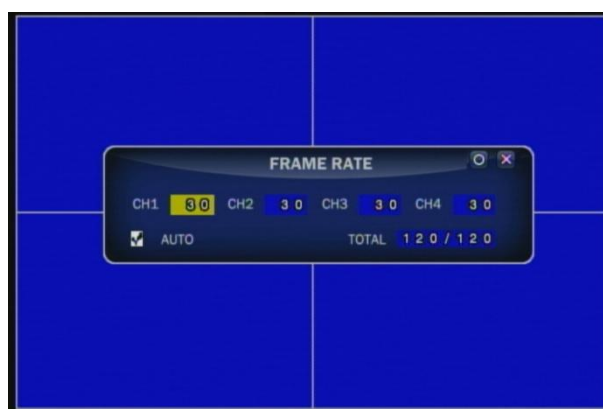
When the DVR detect the motion or alarm, the DVR only record the image on time. But the important evidence usually occurred before detection time. This function of PRE RECORD provides the 120 fps for 4 channels. According to your DVR setting, the PRE RECORD has different application for customer. Press the “Direction Control” button to enable/disable the function. You also can use the scroll wheel button of mouse to do it.

NOTE :

According to your FPS setting, the default setting will pre record 1 sec image to DVR.

4.2.4 FPS

The FPS will affect recording image speed and fluency. In general circumstances, the FPS also affect the recording time. There is different size on the NTSC / PAL mode. The setting of frame rate rest on the channel is important or your favor. Please see the illustration as below table. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.



FPS				
DVR System	NTSC		PAL	
Image Size	Half-D1	CIF	Half-D1	CIF
	720x240	320x240	720x288	320x288
FPS	60	120	50	100

4.2.5 QUALITY

The function adjusts the recording image quality. There are four types selection including: LOW, STANDARD, HIGH and HIGHEST. The high level selection need to consume the more HDD space. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.

4.2.6 RECORD MODE

There are four types of recording mode including: ALWAYS, SCHEDULE, MOTION, SENSOR and MANUAL. The different modes need to collocate with other function. You can select the recording mode then set up the function. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it. Please see the illustration as below:

ALWAYS :

Record the unremitting image in the 24 hour on the week.

SCHEDULE :

There are three recording modes including: ALWAYS, MOTION and SENSOR. You can set up the different recording mode in the 24 hour on the week.

MOTION :

When motion detection triggered, system would record image and enable the buzzer. Meanwhile, the signal of “R” will display near camera name. The recording time and some detail setting please s make reference to the chapter of **4.3. MOTION**

SENSOR :

When sensor detection triggered, system would record image and enable the buzzer. Meanwhile, the signal of “R” will display near camera name. The recording time and some detail setting please s make reference to the chapter of **4.4 SENSOR**

MANUAL :

After select the “MANUAL” mode, press the “REC” button to enable the record function. When you will stop the record function, you need to press the “STOP” button.

NOTE :

No matter what you select the recording types; you must be enabling the individual function on different mode.

4.2.7 AUDIO

Enable the function to record the audio for each channel. The AUDIO IN1~4 support the Camera IN 1~4 to record audio and video. And you can enable the live audio function from the QUICK SETTING LIST. Press the “Direction Control” button to enable the audio channel. You also can use the scroll wheel button of mouse to do it.

4.2.8 SCHEDULE

The DVR provide 4 page setting of schedule. According to your requirement, you can set up the not alike schedule to select and use. But the RECORD setting only will follow the one schedule. Press the “Direction Control” button to select the schedule. You also can use the scroll wheel button of mouse to do it.

4.3 MOTION



In the “SETTING” mode, select the “MOTION” icon to enter the camera setting. You can click the function through mouse or front panel. Please follow the function illustration as below:

4.3.1 CAMERA CHANNEL

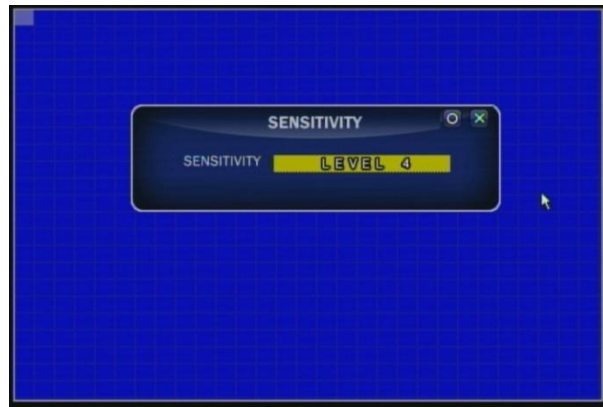
You can select the channel to set up the setting of camera. You can also select the “All” of channel to set up the setting of all cameras. Press the “Direction Control” button to changes the camera channel. You also can use the scroll wheel button of mouse to do it.

4.3.2 MOTION ENABLE

Change the ON/OFF selection to enable/disable the function of motion. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.

4.3.3 SENSITIVITY

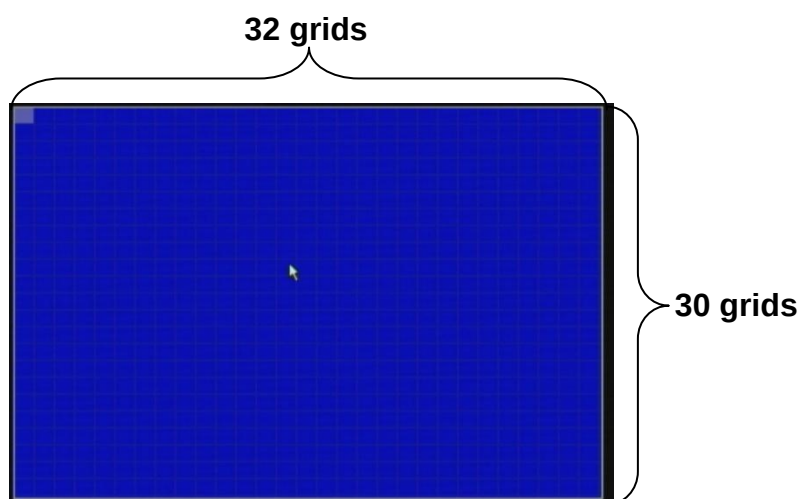
You can set up the motion detect sensitivity on this setting. The figure become too small/big that express the motion detect sensitivity is low/high. P Press the “Direction Control” button to operate the function. You also can use mouse to do it.

**NOTE :**

The default figure is 4, the range from 1 to 9.

4.3.4 MOTION AREA

You can set up the motion detect area on this setting. The motion detection area has the grid of 32 x 30 to set up the enable/disable the grid.



1. Press the “MENU” button to select the function including: SELECT, CLEAR or EXIT. You must confirm the function then select the motion detection area.



SELECT:

Enable the motion function to select.

CLEAR:

Disable the motion function to select.

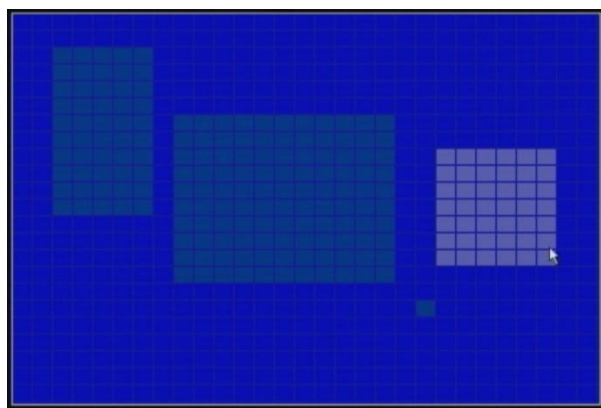
EXIT:

Exit the setting mode.

NOTE :

The default state be selected all area; And the green color of area means the channel.

2. Please “ENTER” to define the start point of motion area, and then press the “Direction Control” button to select the zone. Press the “ENTER” button again after finish the zone selection.



You also can click the mouse to operate the function. Click right button of mouse is like the “MENU” function, and then click left button of mouse to drag the zone according your requirement

NOTE :

The default state be selected all area

4.3.5 POST REC. TIME

When the motion detect, the DVR will record the image on event time. You can set up the recording time by yourself. And you can find the recording image through event search of playback. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.

NOTE :

The default figure is 15 sec, the range from 5 to 60 sec. You also select the OFF to disable the function.

4.3.6 BUZZER TIME

When the motion detect, the buzzer of DVR will automatically work. You can set up the work time by yourself.

NOTE :

The default figure is 5 sec, the range from 1 to 60 sec. You also select the OFF to disable the function.

4.3.7 ALARM TIME

If you want to enable the relay out function on the motion detection, you need to enable the function. You can set up the work time by yourself.

NOTE :

The default figure is 5 sec, the range from 1 to 60 sec. You also select the OFF to disable the function.

4.3.8 MOTION TRACE

Enable the MOTION TRACE function then check another MOTION TRACE of QUICK SETTING LIST. You just can use the function.

4.4 SENSOR



In the “SETTING” mode, select the “CAMERA” icon to enter the camera setting. You can click the function through mouse or front panel. Please follow the function illustration as below:

4.4.1 SENSOR CHANNEL

You can select the channel to set up the setting of camera. You can also select the “All” of channel to set up the setting of all cameras. Press the “Direction Control” button to changes the camera channel. You also can use the scroll wheel button of mouse to do it.

4.4.2 SENSOR MODE

Change the selection to enable the N.O/N.C function of sensor.

When the selection is the N.O (Normal Open), it means the normal open. If the loop is close, the DVR will trigger out to extra alarm or buzzer.

When the selection is the N.C (Normal Close), it means the normal close. If the loop is open, the DVR will trigger out to extra alarm or buzzer.

4.4.3 POST REC. TIME

When the alarm detect, the DVR will record the image on event time. You can set up the recording time by yourself. And you can find the recording image through event search of playback. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.

NOTE :

The default figure is 15 sec, the range from 5 to 60 sec. You also select the OFF to disable the function.

4.4.4 BUZZER TIME

When the alarm detect, the buzzer of DVR will automatically work. You can set up the work time by yourself. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.

NOTE :

The default figure is 5 sec, the range from 1 to 60 sec. You also select the OFF to disable the function.

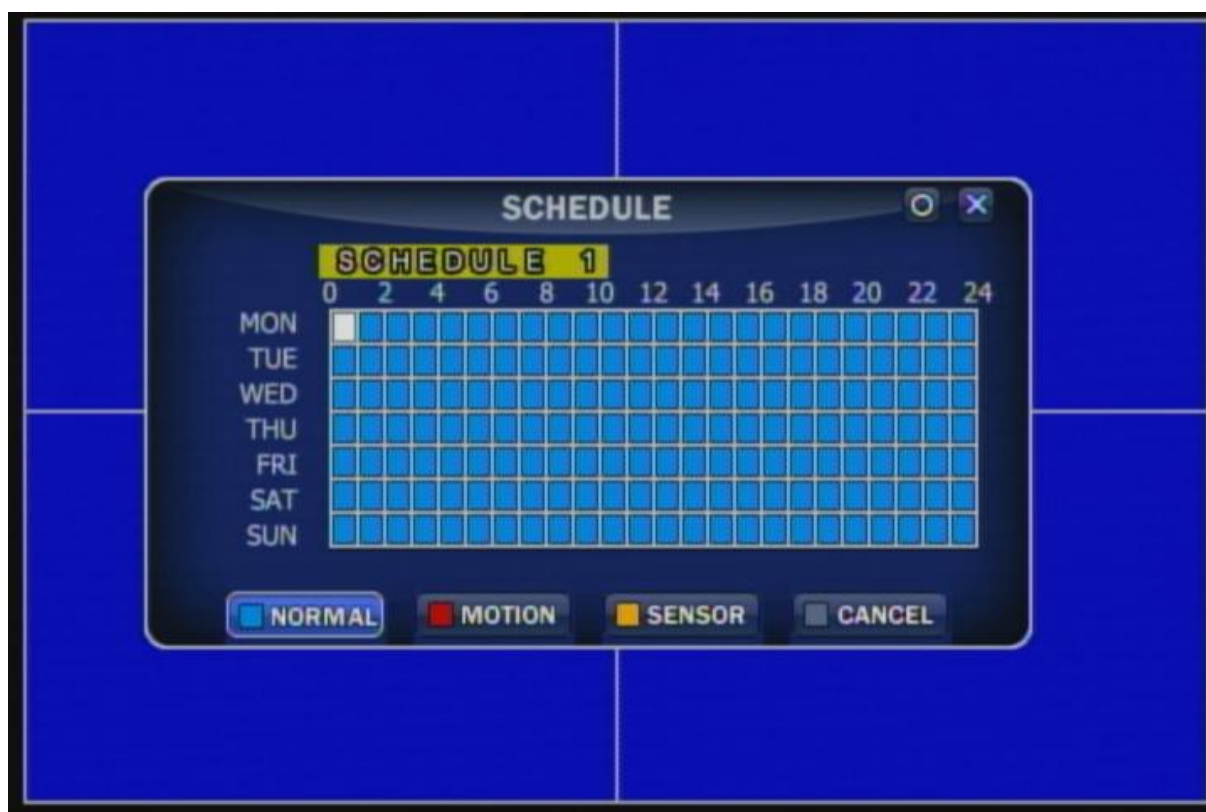
4.4.5 ALARM TIME

If you want to enable the relay out function on the alarm detection, you need to enable the function. You can set up the work time by yourself. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.

NOTE :

The default figure is 5 sec, the range from 1 to 60 sec. You also select the OFF to disable the function.

4.5 SCHEDULE



In the “SETTING” mode, select the “SCHEDULE” icon to enter the camera setting. You can click the function through mouse or front panel. On the “SCHEDULE” mode, you can define the recording plan here. And the “SCHEDULE” setting can provide four record methods. Please follow the function illustration as below:

SCHEDULE 1~5 :

According to your requirement, you can set up the different recording schedule by yourself. But you only can select one schedule on the DVR.

NORMAL:

It always records the image every time and every day. It stands for the 24hr full time recording. Press the channel 1 to select this type. You also can use mouse to select it.

MOTION:

In the mode, if it detects the motion from camera, the DVR will record image. The function will combine with the **MOTION** setting. Press the channel 2 to select this type. You also can use mouse to select it.

SENSOR:

In the mode, if it detects the trigger from extra sensor, the DVR will record image. The function will combine with the **SENSOR** setting. Press the channel 3 to select this type. You also can use mouse to select it.

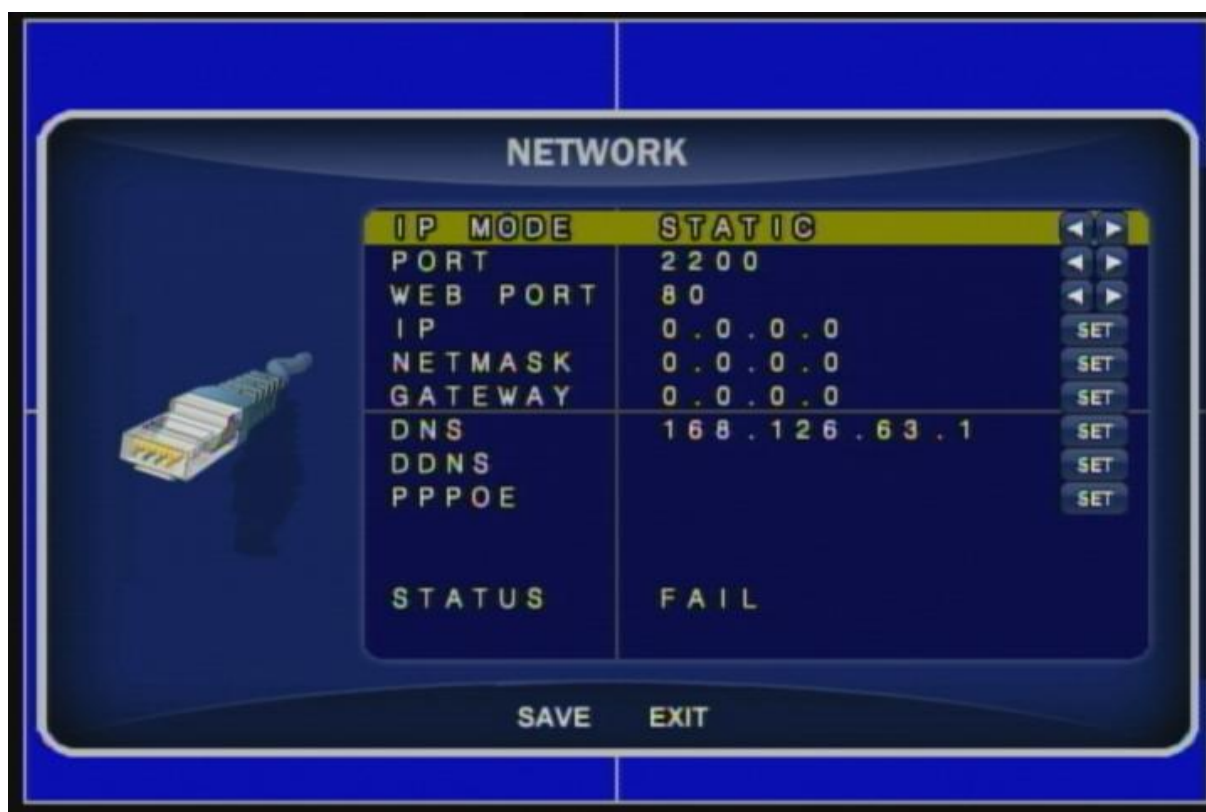
CANCEL:

You can combine with the requirement to set up the “NO RECORDING” function. Press the channel 4 to select this type. You also can use mouse to select it.

Please select the recording type first. Press the “Direction Control” button to select the time on the schedule, and then press the “ENTER” button to enable the recording type. You also can click the left button of mouse to drag the zone according your requirement.

Press the MENU button to save the setting after finish. The DVR will pop-up the confirmation window to check again with customer.

4.6 NETWORK



In the “SETTING” mode, select the “NETWORK” icon to enter the camera setting. You can click the function through mouse or front panel. Please follow the function illustration as below:

4.6.1 IP MODE

There are four kinds of connection methods: STATIC IP, DHCP, PPPoE and OFF. The default mode is the STATIC IP. You only switch the IP mode to enable the function. But the PPPoE mode need to enter the information of account, you must input the detail information from local ISP. Press the “Direction Control” button to change the figure of IP. You also can use the scroll wheel button of mouse to do it.



STATIC IP :

The STATIC IP is the most reliable mode on DVR. Because of the IP address is always not change from ISP. You always input the IP then remote see the image through I.E Browser. You also combine with the DDNS service to set up.

DHCP :

The DHCP service will automatic get different IP form ISP. We suggest combining with the DDNS function. Because of you don't know what time change the IP from ISP.

PPPoE :

The PPPoE service will automatic get different IP form ISP too, but the IP will disconnect after 3 days. We suggest combining with the DDNS function. Because of you don't know what time change the IP from ISP. When you select the mode of PPPoE, please input your dial-up account info. The account includes the user name and password.

NOTE :

You cannot remote change other network setting through I.E Browser, because the DVR need to ensure the remote connection is reliable and safe.

4.6.2 PORT

The default port setting is 2200. The port setting is for video protocol of DVR. Maybe you have the server on your office or other requirement; you can set up the port by yourself on this selection. The port range is from 1 to 65535. We suggest the port setting over 1024 values.

4.6.3 WEB PORT

The default port setting is 80. It is the normal setting form HTTP protocol. Maybe you have the server on your office or other requirement; you can set up the port by yourself on this selection. The port range is from 1 to 65535. We suggest the port setting over 1024 values.

4.6.4 IP

Set up the IP address here that the formats conform to IPv4 protocol. The range is from 0 to 255. Press the "Direction Control" and "ENTER" button to set up the IP. The DVR will pop-up the virtual keyboard mode for customer, and then press the MENU to save the setting. You also can use mouse to do it.

NOTE :

The default IP of DVR is the “192.168.1.100”. If you want to connect the DVR directly, please refer the more detail information from **Appendix K: How to set up your PC IP information.**

4.6.5 NETMASK

The “MASK” means the submask or netmask. You can set up the submask here that the formats conform to IPv4 protocol. The range is from 0 to 255.

4.6.6 GATEWAY

The “G/W” means the Gateway. You can set up the gateway here that the formats conform to IPv4 protocol. The range is from 0 to 255.

4.6.7 DNS

The DNS means the “Domain Name Server”. You can set up the submask here that the formats conform to IPv4 protocol. The range is from 0 to 255.

NOTE :

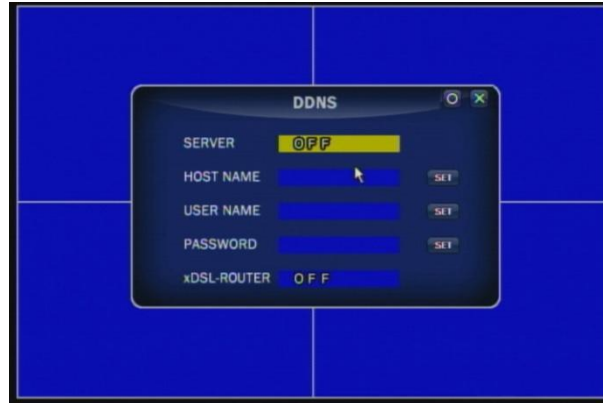
You only set up the **IP**, **G/W**, **MASK** and **DNS** on type of “STATIC”. Because of the DHCP and PPPoE static will automatically get the all IP information. The detail IP information please makes reference form your ISP and IP support.

NOTE :

All IP settings can click the “SET” to enter the virtual keyboard mode. The virtual keyboard is design resembling the keyboard. You can select the number then finish the designation then click the “ENTER” to go back CAMERA setting. You also can use the mouse to operate it



4.6.8 DDNS



SERVER :

If you select to use the PPPoE or DHCP mode, the DDNS ENV will provide the domain name service. You would not worry the IP address changed from ISP. You can find the DVR on the Internet. Press the “Direction Control” button to switch the state of NONE / DYNDNS / NO.IP. You also can use the scroll wheel button of mouse to do it.

NOTE :

According to you apply the free service to select the SERVER type. If you want to know how to apply the free account, The detail settings please make reference to the chapter of **Appendix C. Apply for DDNS.**

HOSTNAME :

The Host name was applied for your domain name. The detail settings please make reference to the chapter of **Appendix C. Apply for DDNS.** Click the “SET” to enter the virtual keyboard mode, and then input your domain name info.

NOTE :

The host name is your DVR domain name. Please design the easy remember name.

USERNAME :

This is your user name of register on the DynDns.org or no.ip. Please input the user name. And press the “ENTER” button to modify the contents of username. Click the “SET” to enter the virtual keyboard mode, then input your domain name info.

PASSWORD :

This is your password of register on the DynDns.org or no.ip. Please input the password. And press the “ENTER” button to modify the contents of password. Click the “SET” to enter the virtual keyboard mode, then input your domain name info. And our user manual only give an example about Dyndns.



DynDns

<http://www.dyndns.com/>



no.ip

<http://www.no-ip.com/>

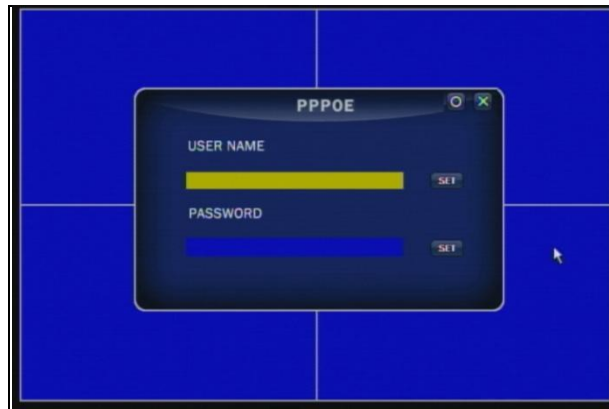
NOTE :

The USERNAME and PASSWORD provide 10 bytes word for user.

xDSL ROUTER :

This is the specific function. If you have the DSL Router, you can use the function. Press the “Direction Control” button to switch the state of NONE / DYNDNS / NO.IP. You also can use the scroll wheel button of mouse to do it.

4.6.9 PPPOE



USERNAME :

Input the PPPoE dial-up account username on here. Click the “SET” to enter the virtual keyboard mode, then input your domain name info.

PASSWORD :

Input the PPPoE dial-up account password on here. Click the “SET” to enter the virtual keyboard mode, then input your domain name info.

NOTE :

After setting finish, the DVR will enable the function of automatic dial-up to internet. And the ISP keep the IP floating, the ISP will disconnect the PPPoE connection after 3 days.

4.6.10 MAC

Here will display the MAC information of DVR. You cannot modify the MAC figure by yourself, because this is the identification of network card. The factory will set up the unique number for DVR.

4.6.11 STATE

If the network setting is right, the connection state will pop up the information window after finish and exit the “SETTING” Mode.

4.7 USB



In the “SETTING” mode, select the “BACKUP” icon to enter the camera setting. You can click the function through mouse or front panel. Please follow the function illustration as below:

The BACKUP setting only provide the DVR could back up image through USB Flash. The DVR can support mostly the USB Flash on the market. If the DVR cannot support the USB Flash, the DVR would not set up the device in the system.

The BACKUP will display the some information. Please see the illustration as below:

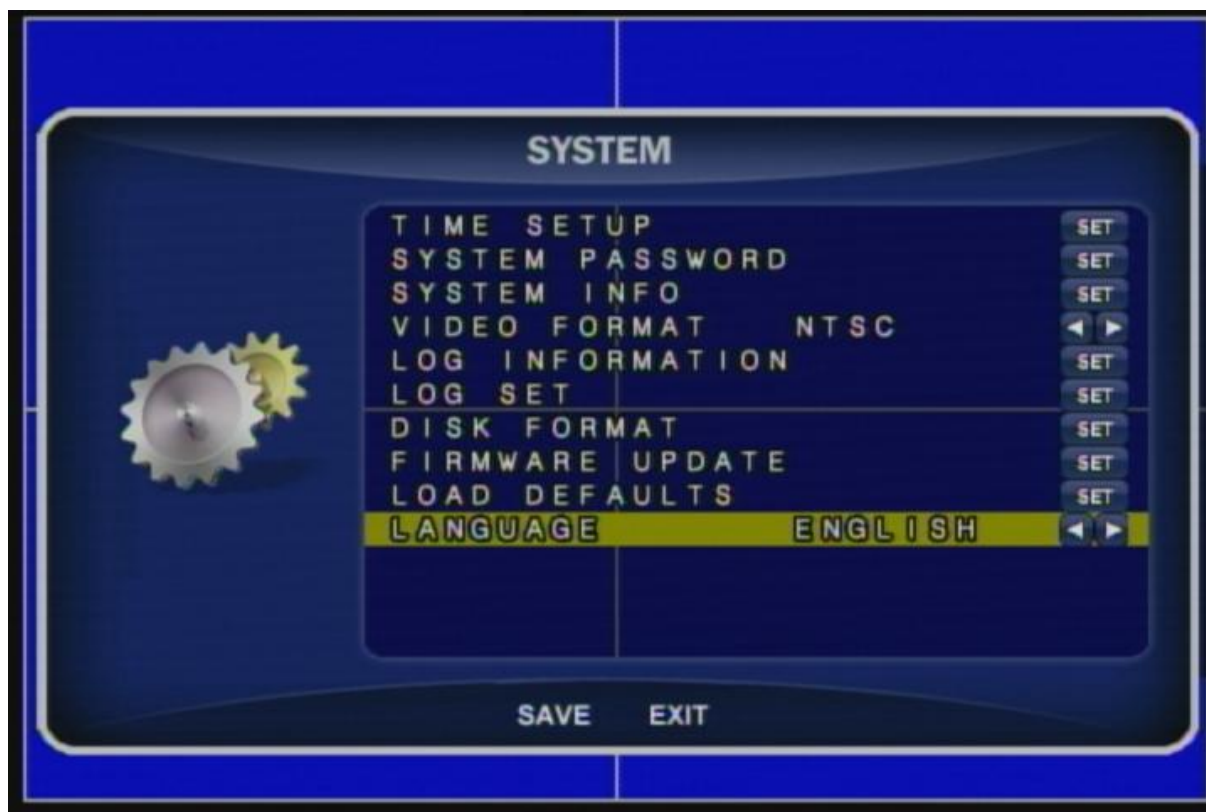
USB function		
No	Item	Illustration
1	HDD:	Display the HDD number information for customer.
2	DEVICE:	Display the backup device information for customer.
3	CHANNE:	Select the channel to back up the recording image
4	START:	You can select the recording start time from DVR to backup.
5	END:	You can select the recording end time from DVR to backup.
6	TOTAL:	According to the start and end time setting to adjust the MB.

When the setting finish, press the MENU button to back up the recording image to USB flash. You also can click the “O” button to do it.

NOTE :

The DVR provide the specially function for customer. The backup file will direct change the format to AVI. The AVI file can support the Window Media Player (WMP). You can play the recording image on your PC.

4.8 SYSTEM



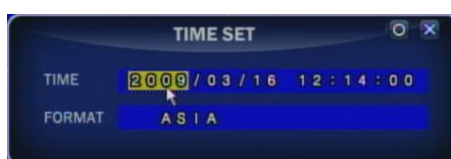
In the “SETTING” mode, select the “SYSTEM” icon to enter the camera setting. You can click the function through mouse or front panel. Please follow the function illustration as below:

4.8.1 TIME SETUP

In the TIME SETUP, you can direct set up the time / date figure on DVR. Press the “Direction Control” button to set up the time/date figure, and then press the MENU to save the setting. You also can use the scroll wheel button of mouse to do it.

TIME: The time format is the “YEAR/MONTH/DAY HOUR/MINUTE/SECOND”. You can change the all figure on this setting.

FORMAT: There are 3 kinds of selection setting including ASIA (YYYY/MM/DD), EURO (MM/DD/YYYY) and USRO (DD/MM/YYYY). YYYY means year, MM means month, and DD means date



4.8.2 SYSTEM PASSWORD

If you enable the password function, the system will request 4~8 bytes numbers for the password.

In the DVR, It will protect your DVR OSD interface and system. Wherever anyone wants to operate the DVR, he needs to enter the correct password first.

There is not number buttons on the DVR. You can click the set into the virtual keyboard mode, and only select the number to set up the password of DVR. You can input the number from IR controller. If you want to set up the easy password on your DVR, you can press the channel 1~4 to set up the password. The channel 1~4 can provide the number 1~4 figure to input here.



Press the “Direction Control” button to set up the password, and then press the MENU to save the setting. You also can use the scroll wheel button of mouse to do it.

NOTE :

The default password is “0000”. You can change the password by yourself.

4.8.3 SYSTEM INFO

The storage info and the firmware version will display the system information.



SYSTEM INFO function		
No	Item	Illustration
1	FIRMWARE VER.	The FIRMWARE VER. includes the illustration: VERSION NUMBER (DATE).
2	PRI. MASTER	If you set up the HDD on SATA interface of DVR (mark of 1), the first HDD size will display here.
3	SLAVE	If you set up the HDD on SATA interface of DVR (mark of 2), the second HDD size will display here.
4	SEC. MASTER	If you set up the HDD on SATA interface of DVR (mark of 2), the third HDD size will display here.
5	SLAVE	If you set up the HDD on SATA interface of DVR, the fourth HDD size will display here.
6	HDD OVERWRITE:	The record mode of HDD can select two methods. One is the "OVERWRITE". Other one is the "ONCE". If you select the ON, the recording mode will change to "OVERWRITE". The OFF means the DVR only record the once image on HDD. You can select the recording mode by yourself. Press the "Direction Control" button to change the values. You also can use the scroll wheel button of mouse to do it.

NOTE :

The KA-6804 only provides the one SATA interface for customer.

4.8.4 VIDEO FORMAT

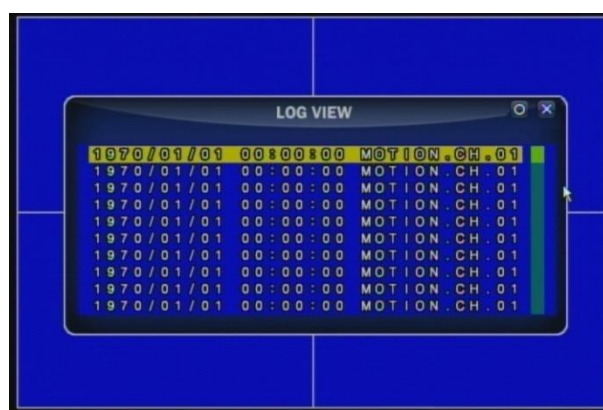
The DVR supply NTSC/PAL video system for the country of world. According to your country, select the system of DVR by yourself. Press the “Direction Control” button to switch the system mode. You also can use the scroll wheel button of mouse to do it.

NOTE :

Please avoid the NTSC/PAL camera to connect the DVR.

4.8.5 LOG INFORMATION

The log file of DVR can record the 10000 action. Some action can set up to record the message to DVR. Please refer the chapter of **4.8.6 LOG SET**. See the all types recording message of log file as below:



LOG INFORMATION function		
Log information	illustration	Modify the action
MOTION	Detect the motion from CCD	Y
EVENT	Detect the alarm from DVR	Y
VIDEO LOSS	Detect the video loss from CCD	-
REC. START	Enable the manual record	Y
BOOTING	Power on the DVR	Y
SHUTDOWN	Power off the DVR	-
ABNORMAL OFF	It is abnormal for shutdown the DVR	-
CONNECT NET	When the network connect	-
CLOSE NET	When the network disconnect	-
RECOVERY	Examine the recording file before booting every time	-
CHANGE SETUP	Change the setting of DVR	-

4.8.6 LOG SET

You can set up the any action of DVR into the log file. The LOG SET provide the MOTION, SENSOR, MANUAL and BOOTING four types to select for customer. Press the “Direction Control” button to change the values. You also can use the scroll wheel button of mouse to do it.



MOTION :

Select the ON to enable the function. When motion detection triggered, the system would record message to log file.

SENSOR :

Select the ON to enable the function. When sensor detection triggered, the system would record message to log file.

MANUAL :

Select the ON to enable the function. When you press the REC button, the system would record message to log file.

BOOTING :

Select the ON to enable the function. When you power on the DVR to work, the system would record message to log file.

4.8.7 DISK FORMAT

It can provide to format the HDD data function. The format HDD means to change the HDD standard for DVR. If you have any recording image, the format will delete the recording data. You can select the HDD1, HDD2 or ALL to format. The disk will display the recording time info for customer. If you select HDD finish, press "MENU" button to active the function of format. You also can use mouse to do it.

4.8.8 FRIMWARE UPDATE

The DVR only update the firmware from USB Flash. You need to copy the firmware source from PC first. Please see the step by step as below:

USB Flash:

1. Confirm the firmware must in the directory of USB flash.
2. Plug the USB flash disk into the USB connector of DVR.
3. Please select the "BACKUP" setting from main menu. You can check the USB Flash set up on the DVR state.
4. Get into the "FIRMWARE UPDATE" of "SYSTEM" item. The DVR will pop-up the confirmation window to check again with customer.
5. Press the "ENTER" button to active the firmware upgrade. You also can use the scroll wheel button of mouse to do it.
6. System would show "**PLEASE WAIT 3 MINS**" while updating.
7. The screen would show "**PLEASE REBOOT SYSTEM**" after updated, and then please restart DVR.

NOTE :

Please note power state on the firmware upgrade. The power off will cause the damage of DVR.

4.8.9 VGA RESOLUTION

The DVR provide many resolution types for customer. The frequency of DVR fixes on the 60Hz. There are 4 kind of resolution type including: 640x480, 800x600, 1024x768 and 1280x1024. Press the “Direction Control” button to change the VGA resolution. You also can use the scroll wheel button of mouse to do it.

The VGA Output List	
Resolution	frequency
640x480	60 Hz
800x600	60 Hz
1024x768	60 Hz
1280x1024	60 Hz

NOTE :

The default setting is 1024x768.

4.8.10 BUZZER

Enable/Disable the DVR which supply the keypad tone function. Press the “Direction Control” button to operate the function. You also can use the scroll wheel button of mouse to do it.

4.8.11 LOAD DEFAULTS

The DVR can repeat to get the factory default figures through this function. Press the “Direction Control” button to reset the DVR to factory default figure. You also can use the mouse to do it.

NOTE :

When you want to reset the default setting, the DVR will pop-up the confirmation window to check again with customer.

4.8.12 LANGUAGE

There are two basic “Chinese” and “English” types of language selections for user. Press the “Direction Control” button to switch the language selection. You also can use the scroll wheel button of mouse to do it.

NOTE :

Further language version could be release form some OEM/ODM.

5. PLAYBACK

5.1 DVR Playback

You can playback recording image through Front Button Interface or Quick Setting List, and then it provides 2 kinds of playback mode: Including **TIME SEARCH** and **EVENT SEARCH**. The detail operations of recording image please make reference to the chapter of **2.4 Playback Control Interface**.

NOTE :

The DVR Playback function only enable from the “MONITOR” mode.



Play:

Use the search function to enter the PLAYBACK mode. The screen image will be change to recording mode of TIME SEARCH and EVENT SEARCH state. Select the mode to enter then viewing record image.

You will see the “PLAYBACK BAR” on the lower-down side of monitor. Press the PLAY button or click the function button through the left mouse button to view the recording image. The play and pause button is the same button in the “PLAYBACK BAR”.



NOTE :

If you enter the PLAYBACK mode, the recording image will start to play.

TIME SEARCH:

There are 2 kind of search mode: INPUT TIMESEARCH and CALENDAR TIME SEARCH.

CALENDAR TIME SEARCH:

The CALENDAR TIME SEARCH mode will display the perpetual calendar information. If the date has the recording image, the date will show the color of yellow. Press the “Direction Control” button to select the YEAR, MOUTH and DAY. You also can use the mouse to operate it.

**NOTE :**

The detail operations of software please make reference to the chapter of **Appendix G. DVRPlayer Operation.**

INPUT TIME SEARCH:

The INPUT TIME SEARCH mode will display the date and time information. You can input the date and time information to search record image between the BEGIN TIME and END TIME. Press the “Direction Control” button to change the date and time. You also can use the mouse to operate it.

**NOTE :**

The detail operations of software please make reference to the chapter of **Appendix G. DVRPlayer Operation.**

EVENT SEARCH:

The “EVENT SEARCH” will take down the event through MOTION, ALARM and V.LOSS detect. It can provide the one page to record data. The total is the 3000 events could be record.



EVENT SEARCH function	
Log information	illustration
MOTION	Detect the motion from CCD, and the list will show the which channel
EVENT	Detect the alarm from DVR, and the list will show the which channel
REC. START	Enable the manual record

5.2 USB Playback

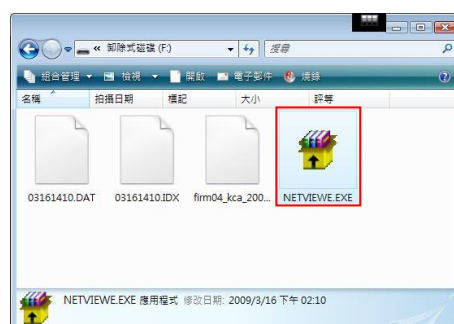
The DVR can provide two methods to back up the recording image through USB flash. Please see the step by step as below:

Back up to the DVR format:

When you select the backup time range to back up the recording image, please don't click the AVI check box.



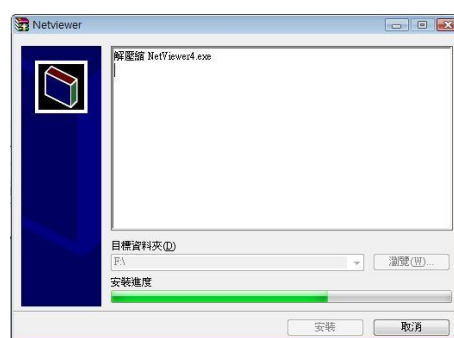
After the backup image finish, the USB flash will include the NetViewer software and backup recording image file. You can direct to view the backup image through PC/Laptop. You need to plug the USB flash into PC, and then open the disk of USB flash. Please double click the "NetViewer.exe" to decompress the software files first.



NOTE :

The NetViewer software is the DVR Player software. And the compress file would be protect the software is the completely.

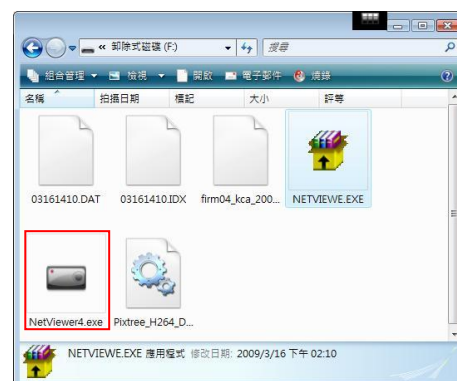
The compress file is the WINRAR format. You only double click the "NetViewer.exe" and select the decompress path. Click the START to finish the decompress activity.



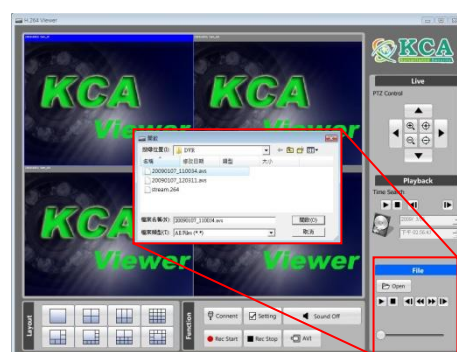
NOTE :

The default path is your root directory of USB flash disk.

The play backup program would appear on your decompress path, select " NetViewer4.exe " to execute the DVR software



Click the "File" area then click the "Open" button to select the backup recording file. Open the USB disk located driver letter. (Example F:) or the local backup folder, and pick the file to playback.



After select the backup recording file, you need to click the "Play Button" to play the recording image. Double click the channel to display the full image of channel on the monitor.



Back up to the AVI format:

When you select the backup time range to back up the recording image, please click the AVI check box.

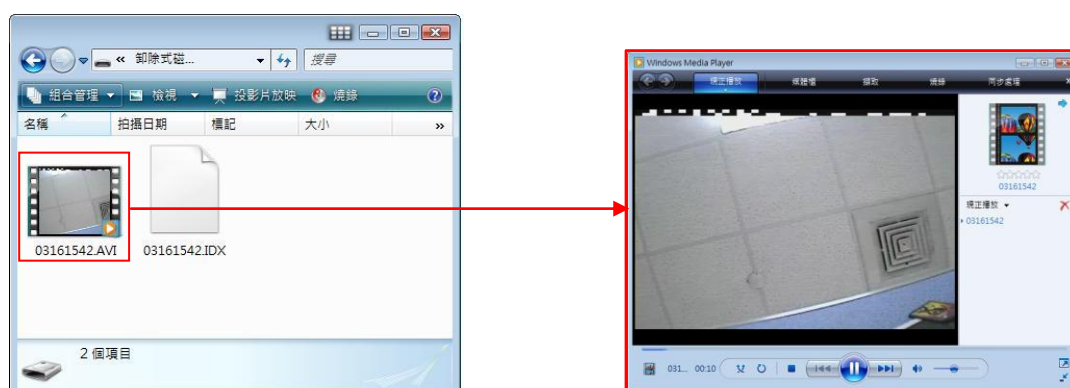


NOTE :

The backup format of AVI only support the one channel. Please select the channel then back up the recording image.



After the backup image finish, the USB flash will include the AVI file. You can direct to view the backup image through Windows Media Player software. You need to plug the USB flash into PC, and then open the disk of USB flash. Please double click the AVI file to play the backup recording image.



NOTE :

Because of the software interface is the same I.E Browser. The detail operations of software please make reference to the chapter of **6.3 I.E Browser Interface**.

6. Network Function

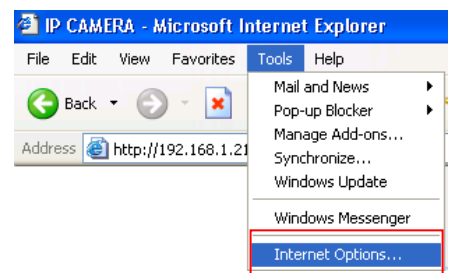
6.1 Illustration

You can remote view the image of DVR through internet on the world. Just input the IP address or domain name on “I.E Browser”. The remote function would support viewing image, playback image and recording image.

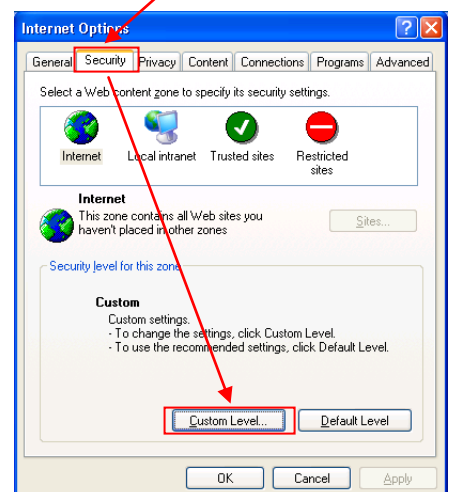
6.2 Remote View

First, you need to change the security setting of I.E Browser. Please follow the step by step illustration as below:

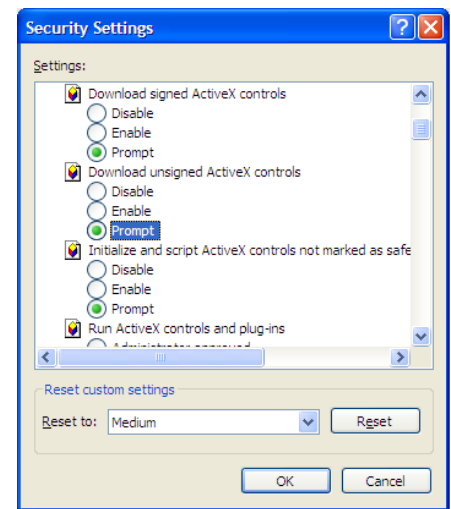
Open the I.E Browser → select the “Tools” → “Internet Options”.



Select the “Security” bookmarker → Custom Level→ Security Settings→



Enabled or Prompt the selection of Download unsigned ActiveX controls, and then click the “OK” button to leave setting.



Open the I.E Browser and input the IP address or domain name of DVR. Press the “connect” button.



The I.E Browser will pop-up the window, please click the “Install” button to set up the software of ActiveX. After install finish, the Internet Explorer pop-up the window again. Please input the user name and password to enter the network viewing mode. Click the sequence image to enter the function mode.

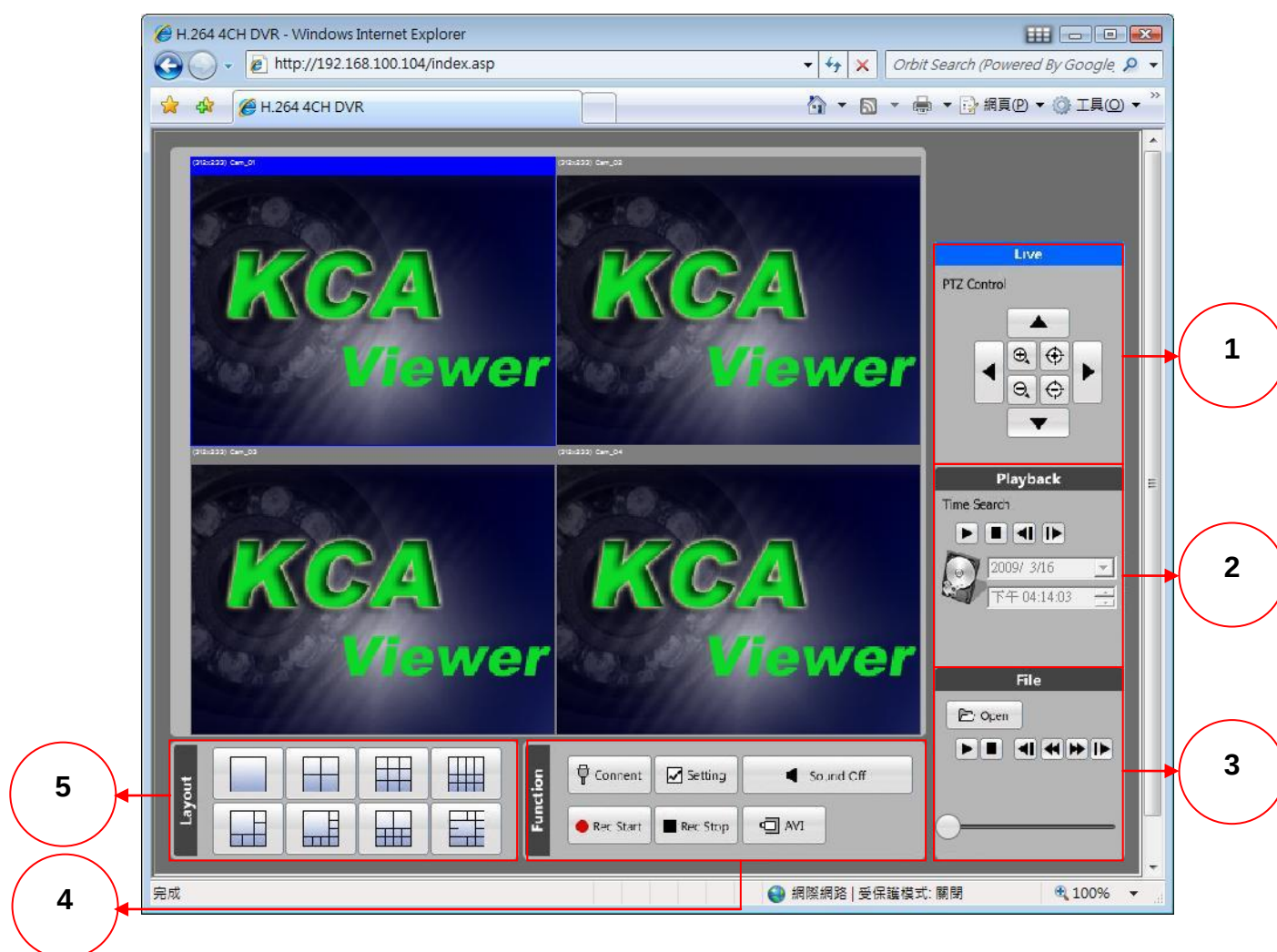


NOTE :

The default username is “**admin**”. However, the default password is “**0000**”.

6.3 I.E Browser Interface

There are 5 kinds of remote function for user: Live, Playback, File, Function and Layout. The I.E Browser interface is the same the NetViewer design. The same software interface would let the customer operate the function easy and convenient.



Screen Display illustration

Number	Item	Explanation
1	LIVE	View the Live image and remote operate the PTZ
2	Playback	Remote play the recording image through TIME Search
3	File	Open the recording image from USB flash.
4	Function	Set up the function of DVR
5	Layout	Change the view mode to Full format or QUAD

6.3.1 Live

Click the “Live” area to enter the mode of Live video. You only can remote control the PTZ in this mode. The PTZ function is the same the local DVR. The detail function illustration, please see as below:

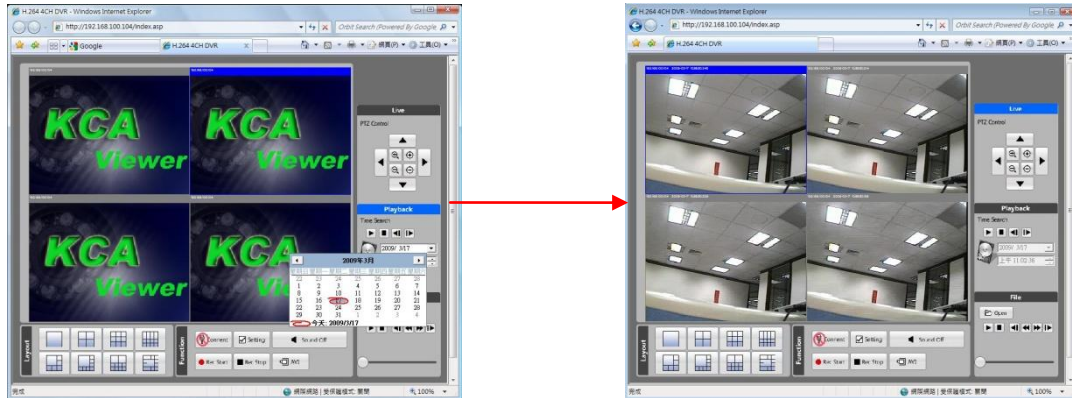
PTZ function			
			
No	Illustration	Mouse action	Front Panel action
1	Change the PTZ lens into “UP” action	Click the button	Control (UP)
2	Change the PTZ lens into “Left” action	Click the button	Control (LEFT)
3	Change the PTZ lens into “Right” action	Click the button	Control (RIGHT)
4	Change the PTZ lens into “Down” action	Click the button	Control (DOWN)
5	Enable the ZOOM IN function	Click the button	Channel 1
6	Enable the ZOOM OUT function	Click the button	Channel 2
7	Enable the Focus add function	Click the button	Channel 3
8	Enable the Focus reduction function	Click the button	Channel 4

NOTE :

The maximum connector is 5 people.

6.3.2 Playback

Click the “Playback” area to enter the mode of playback. But the playback mode only provides the CALENDAR TIME SEARCH function. You need to select the date and time then click the “PLAY” button to play the recording image. The image will not affect the local image of DVR viewing. If you want to play the recording image from local, you need to change the mode of I.E Browser. Please see the function illustration as below:



CALENDAR TIME SEARCH:

The CALENDAR TIME SEARCH mode will display the perpetual calendar information. If the date has the recording image, the date will show the color of yellow. Click the button to select the YEAR, MOUTH, DAY and TIME through mouse.

PB Interface:



Play:

Play the recording image through Internet. Please select the recording image via CALENDAR TIME SEARCH first.

Stop:

In the "PLAYBACK" mode, you can press the "**Stop Button**" anytime to go back to the "MONITOR" mode.

Fled to Filed of Rewind:

Click the button to display the recoding picture. The DVR will display the rewind picture.

Fast Rewind:

In the "PLAYBACK" mode, click the "**Fast Rewind Button**" to change the image rewind speed: X2, X4, X8, X16 and X32.

Fast Forward:

In the "PLAYBACK" mode, click the "**Fast Forward Button**" to change the image forward speed: X2, X4, X8, X16 and X32.

Fled to Filed of Forward:

Click the button to display the recoding picture. The DVR will display the forward picture.

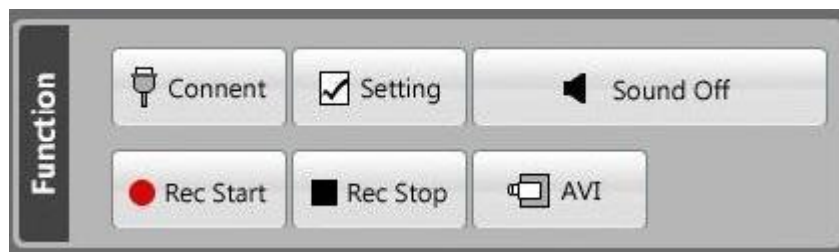
6.3.3 File

The File function only use on the PC software. You can view the backup image from USB flash via the “File” function.

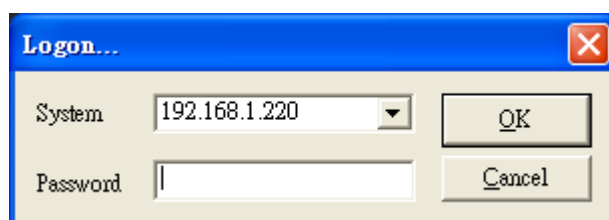
NOTE :

Because of the software interface is the same I.E Browser. The detail operations of software please make reference to the chapter of **5.2. USB Backup**.

6.3.4 Function

**Connect:**

You can click the button to connect/disconnect the remote DVR. The system is from “Setting”. And the password is the DVR password. It is not the account of ActiveX password. It is different !!

**NOTE :**

If you operate the function through NetViewer software, please click the “Setting” button to set up the connection IP first.

Setting:

Click the “Setting” button to enter the remote DVR setting window. The window includes the IP Setting, Connection Setting, AVI Setting and AVI decode setting.

Sound:

The default state is ON. You would see the button is the “Sound Off”. The DVR provide the 4 input and 1 output audio function. The 1~4 audio function will direct to the 1~4 video. You need to change the view mode to full format. Every channel will provide the sound from each the audio.

Rec Start:

You can remote record the image form ActiveX to your PC/Laptop.

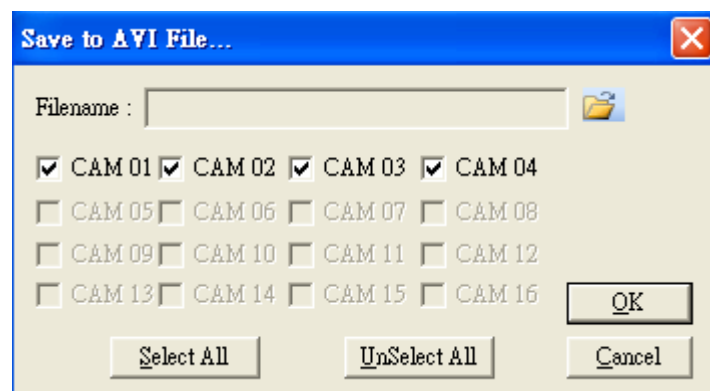
Click the “Rec Start” button to record the image, the recording image format is the “YEAR/MONTH/DATE/HOUR/MINUTE/SECONCOND” AVS file. The AVS format is the DVR H.264 format. For example: If you record the image on 2007/12/31 PM12:15:09, the file name would be 20071231121509. You can set up the save path by yourself. The default path is “C/DVR”

Rec Stop:

Click the “Rec Stop” button to finish the recording image.

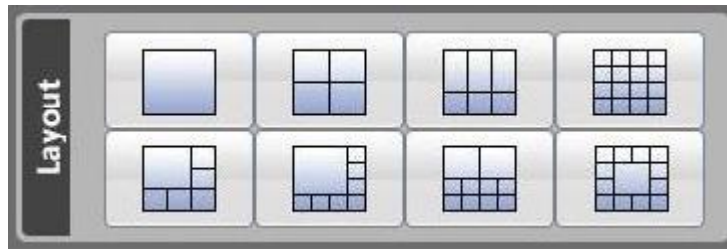
AVI:

Click the “AVI” button to pop-up the setting window. Please click the check box to select the channel. Click the “Open File” button to select the save file path, and then define your save AVI file name.

**NOTE :**

The 4CH DVR only provide the four cameras to set up.

6.3.5 Layout



You can remote view the image of DVR by yourself. The I.E Browser can view image by one channel and QUAD. Double click the 1, 2, 3 and 4 button to change the viewing mode of one channel. You also select the channel then click the full format button to do it. Click the QUAD button to change the viewing mode of QUAD.

NOTE :

The 4CH DVR only provide the application mode of four cameras.

Appendix A: IR Remote Controller



ITEM	
Rec	Enable Record function
MENU	Like the MENU button
EXIT	Like the ESC button
0~9	Set up the figure for DVR
Display	Change the view mode
SEQ	Enable the SEQUENCE
PTZ	Enter the PTZ function
MUTE	Enable the audio function
▲	Move upward or increase
▶	Move right or increase
▼	Move downward or increase
◀	Move left or increase
Enter	Enter the setting
SEARCH	Enter the PLAYBACK mode
USB BACKUP	Not Release the function
<<	Fast backward
>	Play the recording image
>>	Fast forward
PAUSE	Pause to play the image
STOP	Stop the playback

NOTE :

The USB BACKUP function will provide the quick backup recording image on PLAYBACK mode. The function will release next version.

Appendix B: Support Hardware List

There are many HDD spec. Please suggest the list to buy the applicable hardware that combine with the DVR.

HDD Factory	Type	Size
WD	WD1600AVJS	160 GB
	WD2500AVJS	250 GB
	WD3200AVJS	320 GB
	WD5000AVVS	500 GB
	WD6400AVVS	640 GB
	WD7500AVVS	750 GB
	WD10EVVS	1 TB
Hitachi	HDP725016GLA380	160 GB
	HDP725025GLA380	250 GB
	HDT721032SLA360	320 GB
	HDP725050GLA360	500 GB
	HDT721064SLA360	640 GB
	HDS721075KLA330	750 GB
	HDT721010SLA360	1 TB

NOTE :

The DVR almost support all HDD on the market. The list is the reference data for user.

Appendix C: Support USB Flash List

There are many USB Flash spec. Please suggest the list to buy the applicable USB Flash that combine with the DVR.

HDD Factory	Type	Size
ADATA	Classic C701	1GB
	Nobility PD10	2GB
SanDisk	Cruzer® Micro (U3)	1GB
	Cruzer® Micro	8GB
Apacer	AH220	1GB
UMAX	Apus Elite	500MB
PhotoFast	α8	2GB
PQI	Mr. Flash	1GB

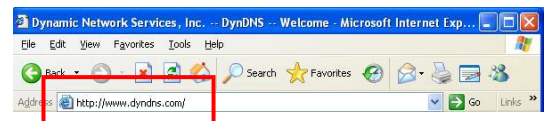
NOTE :

The DVR almost support all USB Flash on the market. The list is the reference data for user.

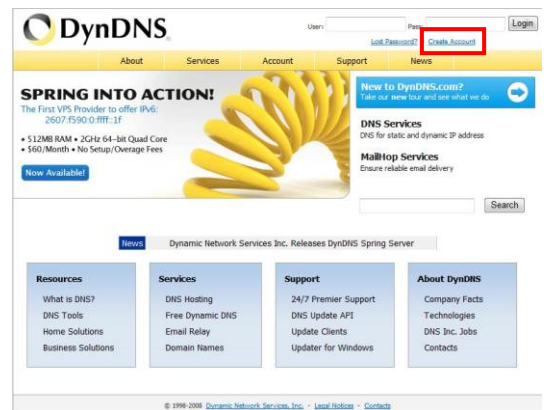
Appendix D: DDNS Application

The DDNS service will provide the function. The domain name corresponds with IP address. But you need to apply for account from DynDns.org website. The DynDns.org website provides the free service to the world's user. This chapter will teach the step by step method, please follows the function illustration as below:

1. Please input the "DynDns.org" website (<http://www.dyndns.com/>) on Internet Explorer then click the "Connect" button.



2. If you have the account in the DynDns.org, you can skip the illustration to no.9. However, if you don't have the account, please click the "Create Account" button through the left-mouse.



3. You will see the table of account, and then input the needful information such as: "User Information" and "Terms of Service". You can input other information by yourself.

1

User Information

Username: kcajames
 Email Address: james@kca.com.tw
 Confirm Email Address: james@kca.com.tw
 Password: *****
 Confirm Password: *****

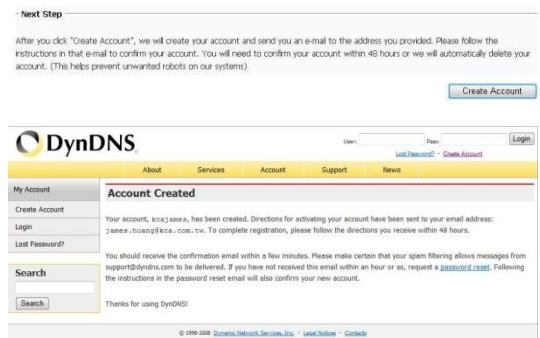
2

Terms of Service

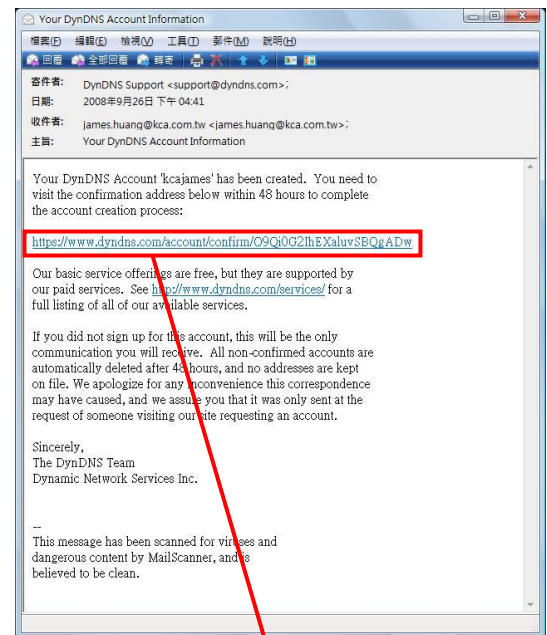
Please read the acceptable use policy (AUP) and accept it prior to creating your account. Also acknowledge that you may only have one (1) free account, and that creation of multiple free accounts will result in the deletion of all of your accounts.

I agree to the AUP: ☒
 I will only create one (1) free account: ☒

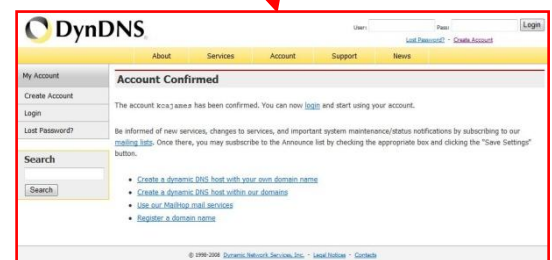
4. After input finish, please click the “Create Account” button. If the data is right, the website will display the “Account Created” information



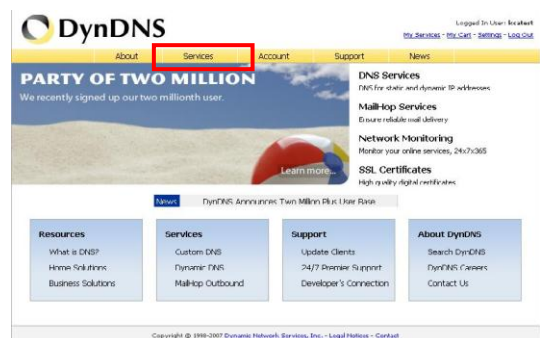
5. You will receive the check mail from DynDns.org. Please check your mail. If you receive the mail, please visit the confirmation address to complete the account creation process.



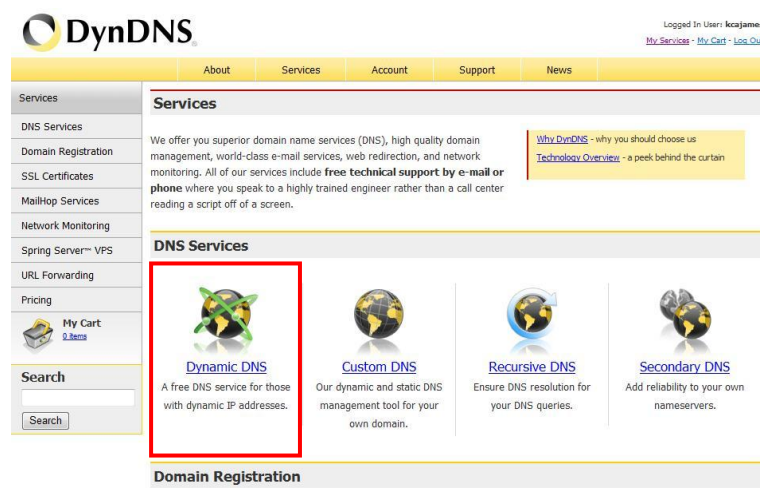
6. Click the red square to finish the creative account.



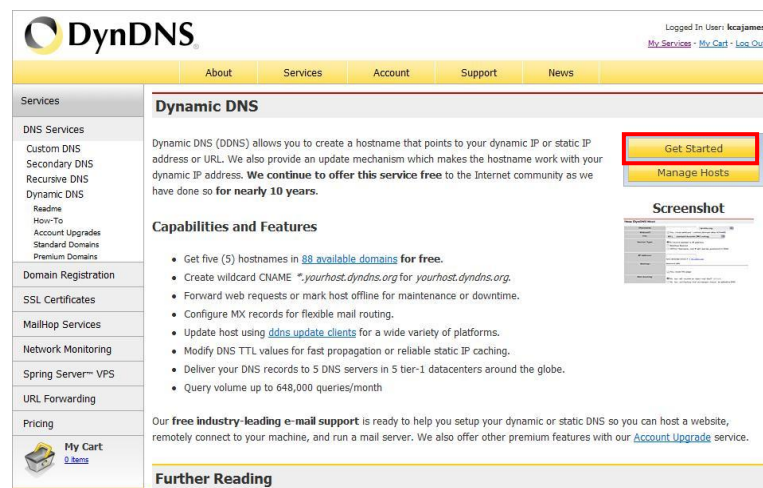
7. You can login to DynDns.org, please input the username and password on main webpage. And click the “Service” button to set up the DDNS function.



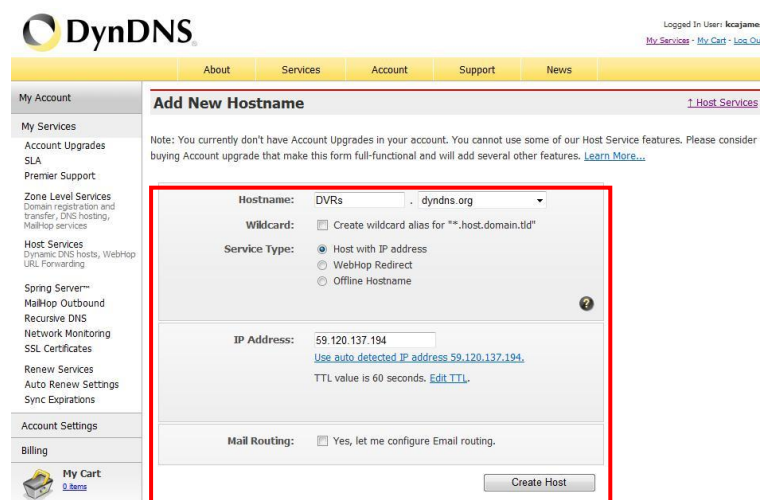
8. Please select the “Dynamic DNS” button.



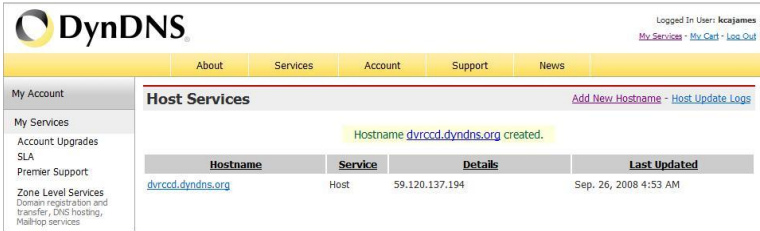
9. Click the “Get Started” button to add the new Hostname.



10. Set up the “Hostname” and “IP Address” by yourself. You can enter your favor domain name to “Hostname”, and input correct “IP address” to IP Address. Finally, click the “Add Host” to finish the setting.



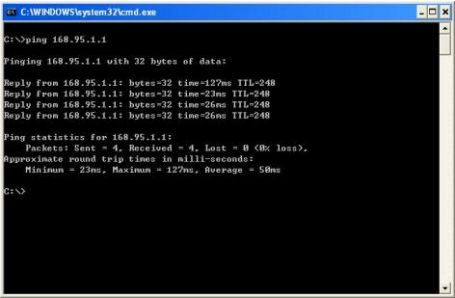
11. The DDNS information will display on the webpage in the end.



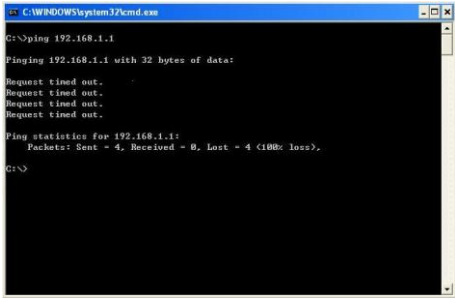
12. Please try to connect to the DVR through domain name.
13. If you can not connect the DVR through domain name, you can test the DDNS service on your PC.
14. Please open the “command mode” from “**Start Menu**”.
15. Input the command: `c:\>ping xxxxx.dyndns.org` [ENTER].

NOTE :
The “xxxxx” is your domain name.

16. If the command mode display the figure information.
Your DDNS is correct.



17. If the command mode display the “timed out” information. Your DDNS is wrong.



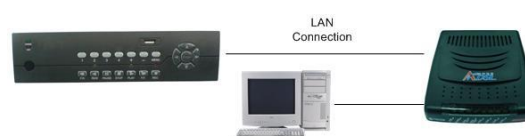
Appendix E: How to set up the DVR through Router

If you have the router, you need to set up the setting of Router. There are many routers in the market, but not all routers can support this function. Please check first.

You will find the setting in the “Advancement Setting” of router. The setting call “Virtual Server”, but different routers have other name. Some routers call “Port Forwarding”, “Port Manage”. You can search about IP and Port setting by your router manual.

For example: Use the D-Link 604 Router to set up the function.

You need to connect the PC and DVR to the router through RJ45 cable.



According to your router default class C IP. Set up your DVR IP, Submask and Gateway through OSD interface. You can set up the IP Address through Static IP and DHCP.



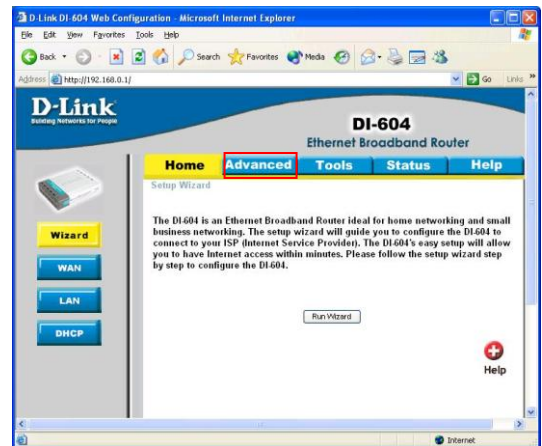
NOTE :

Please avoid using the same IP form the router.

Turn on the PC then open the IE Browser. Input the gateway IP of router. According to the manual of router to input the user name and password then click “OK” to enter router setting.

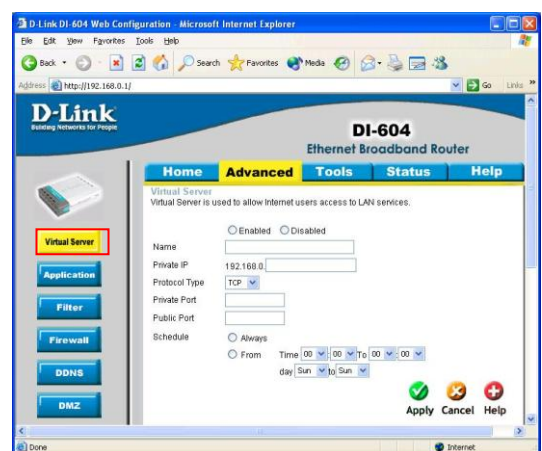


Any router have different setting web page, but you can only search the “Advancement Setting” of web page. Because of the most of virtual server setting is in the “Advancement Setting”. Please find and click the “Advancement Setting” selection.



You will find the “Virtual Server” selection on the left of webpage. Please click the selection then set up the function.

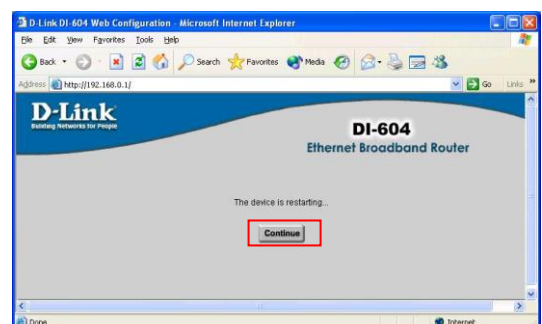
If you want to remote connect the DVR, you need to set up the three virtual servers in the router. Input the all setting value then click the “Apply” button.



NOTE :

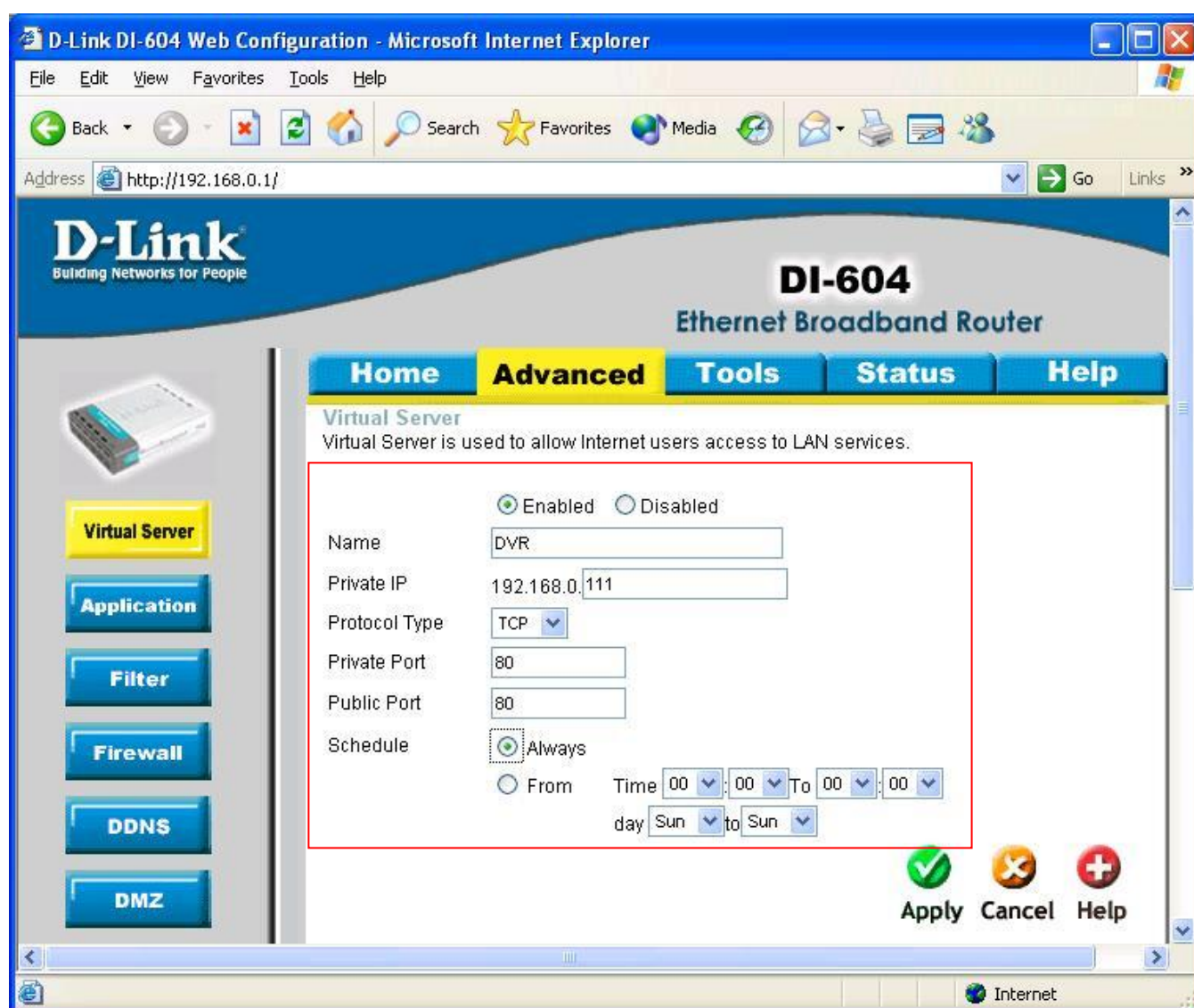
Please refer the detail setting on next page.

In the normal state, the router will restart the system. You only wait a minute and click “continue” button to finish the setting. The webpage will connect to the main webpage of router.



Because of the router have many different type on the market in the world. You only need to note the main setting in this manual. And then refer the other router manual, you can set up the virtual server function in other router.

The DVR need to add three setting in the router, but all setting is the same. You can consult the setting and illustration as below:



Select the “Enabled” to start the “Virtual Server” function

In the “Name” section, please input any appellation by yourself.

In the “Private IP” section, please input the DVR IP address.

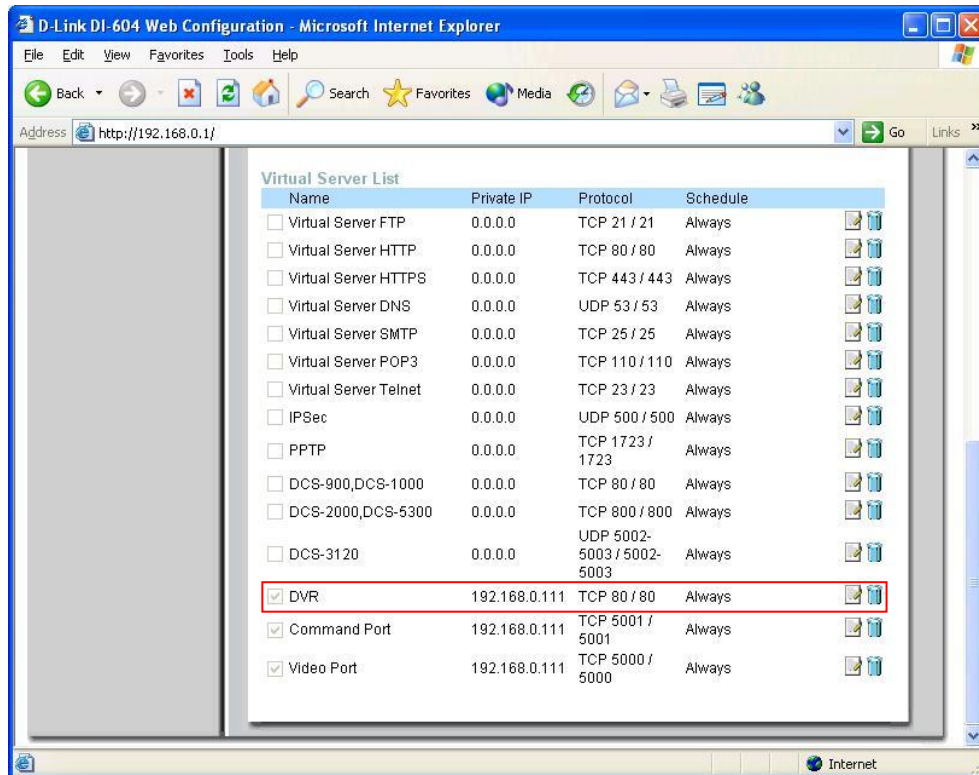
In the “Protocol Type” section, please select the “TCP” type.

In the “Private Port” section, please input the 80 of number.

In the Private Port section, please input the 80 of number.

In the “Schedule” section, please select “Always”.

Finish the all setting of virtual server; you can check the setting is working in the “Virtual Server”.



NOTE :

Please follow the step to set up the 2200 port again. Because of the DVR use the 2200 port to transmit the video code.

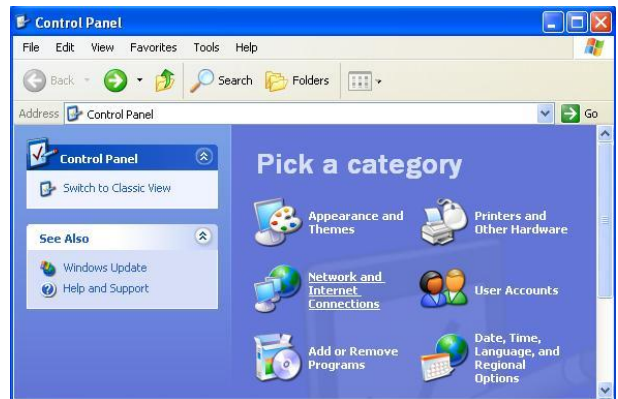
The 80 port is the default HTTP setting. If you will to change the port setting (Wherever the HTTP Port or Video Port), make reference to the chapter of **4.6 NETWORK**.

Appendix F: How to set up your PC IP information

Please follow the steps below to set up your PC:

Go to Start → Settings → Control Panel.

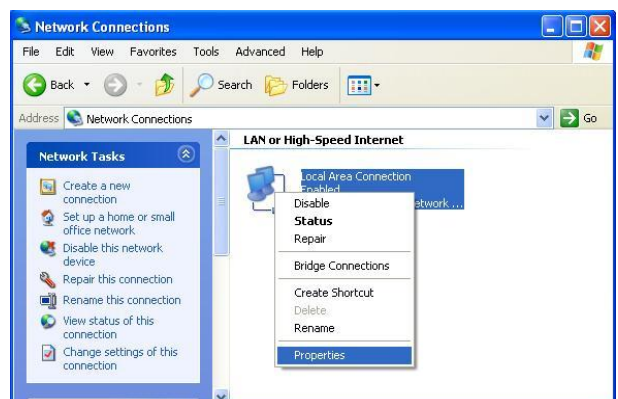
Click “Network and Internet Connections”.



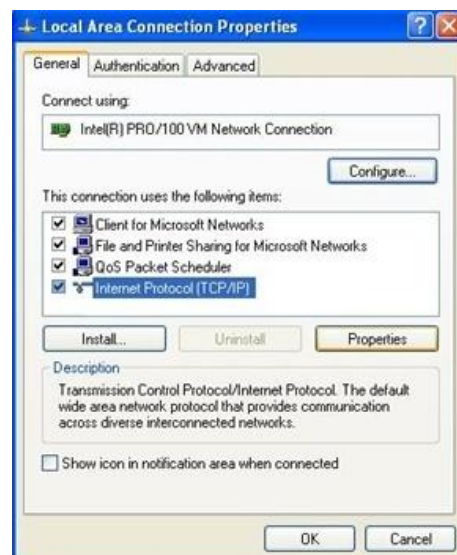
Click “Network Connections”.



Highlight the icon “Local Area Connection”,
right click your mouse, and click “Properties”.



Highlight “Internet Protocol (TCP/IP)”, and then press “Properties” button.

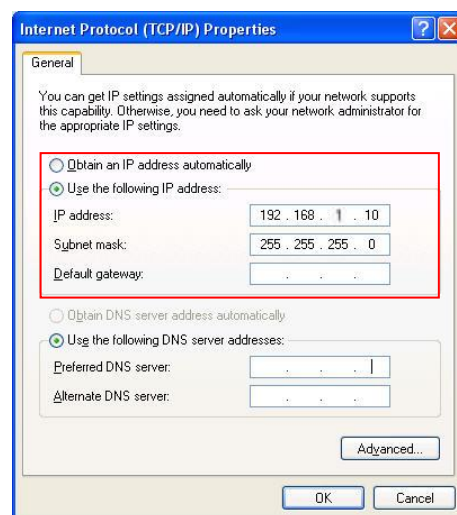


Choose “Use the following IP address”, and then follow the figure to input the IP address and Subnet mask.

IP Address: 192.168.1.10

Subnet Mask: 255.255.255.0

Finally, press OK to exit the “Internet Protocol (TCP/IP) Properties” window.



Press Close button to close the “Local Area Connection Properties” window, and try to connect the DVR through I.E Browser.

