

2.2 Dynamic IP Address

The IP is automatically allocated via router. Therefore the IP address, Subnet mask, and Gateway address will be automatically allocated.

3. How to Setup Networking
3.1 Router

It has to be set as a virtual server (or port forwarding) in order to utilize Internet Explorer and Mobile Phones. Please read the manufacturer's manual thoroughly before setting. Do not use the public port numbers.

3.1.1 Port Forwarding

Forward port 80 (HTTP), 34567 (TCP) and 37778 (UDP) as shown in Fig. 9.

Example

External Port	Internal Port	Protocol	To IP Address	Enabled
---	---	---	192.168.1.0	☐
---	---	---	192.168.1.0	☐
---	---	---	192.168.1.0	☐
---	---	---	192.168.1.0	☐
---	---	---	192.168.1.0	☐
80	80	TCP	192.168.1.102	☒
34567	34567	TCP	192.168.1.102	☒
37778	37778	UDP	192.168.1.102	☒
0	0	Both	192.168.1.0	☐
0	0	Both	192.168.1.0	☐
0	0	Both	192.168.1.0	☐
0	0	Both	192.168.1.0	☐
0	0	Both	192.168.1.0	☐
0	0	Both	192.168.1.0	☐

Fig. 9 Port Forwarding

3.2 Setup on DVR
3.2.1 IP Setup

- Click the DHCP box ① in the **Network** menu as shown in Fig. 8, and then the box will be turned from black to white color.
- Click the **Save** at the bottom line of **Network Setting**.

Please retain the IP information for the next step.

3.2.2 DDNS Setup

DDNS (Dynamic Domain Name System) is a method of keeping a domain name linked to a changing IP address. This is a useful feature since many computers do not use a static IP address.

- Scroll up/down the mouse to search **DDNS** in the **ADVANCED SETTING** ② as shown in Fig. 8.
- Double-click on the **DDNS**, and then the **DDNS** menu will show up as shown in Fig. 10.

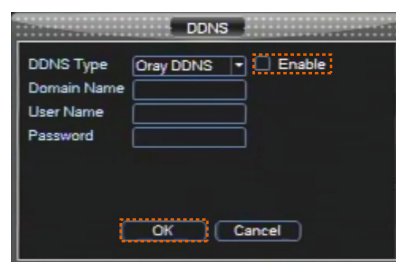


Fig. 10 DDNS Menu

- Select one of DDNS among ORAY DDNS, COOL DDNS, CN99DDNS and DYNDNS DDNS.
- Visit to the relevant website to register for an account (See section 3.2.3).

- After registration, enter the **Domain Name** (e.g.: joseph.dyndns.org), **User Name** and **Password**.
- Click the **Enable** box and the **OK** in Fig. 10.
- Click the **Save** at the bottom line of **Network Menu**.

3.2.3 Registration to the DDNS server (Example)
Visit at www.dyndns.org to register.

Registration to DYNDNS.ORG

1. Visit at www.dyndns.com.
2. Sign up for a new user name and a password: Click the Create Account on the upper right hand corner.
3. After signup new user, check your e-mail and confirm an e-mail from dyndns.com.
4. Go back to www.dyndns.com and log in with the ID and the Password.
5. After log in on dyndns.com front page, click on my services.
6. Click on the Add Host Service (Next to Host Level Service).
7. Click the Add Dynamic DNS Host on the Dynamic DNS.

8. The window to input Host Name will pop up, and select the dyndns.org or the dyvds.org on the pop-up window.
9. To complete, click the Add Host button on the bottom.
10. After registration, go to the DDNS menu on the DVR.

4. How to set Screen Resolution and Color Quality

- Click **Start**, point to **Control Panel** and then click on it.
- Double-click **Display** icon.
- In **Display Properties** Window, select **Settings**.
- Set **Colors as True color (32 bit)** and **Screen area as 1024 by 768 pixels**.

5. Connecting the DVR System
5.1 By Internet Explorer

- In the IP address box of Internet Explorer, type an IP address or the Host name and the Port number of the DVR system as shown in Fig. 11.

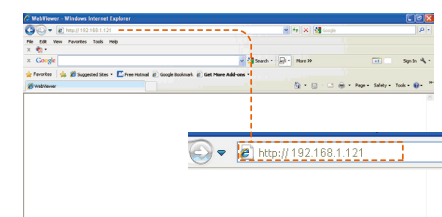


Fig. 11 Type an IP Address

You should type the protocol (http://), the IP address or the Host name and the port number in the IP address box as follows.

- Example 1: if the http port number is 80,
<http://192.168.1.121>
- Example 2: if the http port number is not 80,
<http://65.60.84.40:2005>, or
<http://joseph.dyndns.org:2005>.

- Click **GO** or press **Enter** key, then the **Web Server** window as shown in Fig. 12 will show up.



Fig. 12 Web Server

- Enter the **User Name** and **Password** in Fig. 12. The factory default **User Name** is Admin (case is sensitive) and **Password** is "888888".
- Click the **Login**, then the **Web Server** as shown in Fig. 13 will be displayed.

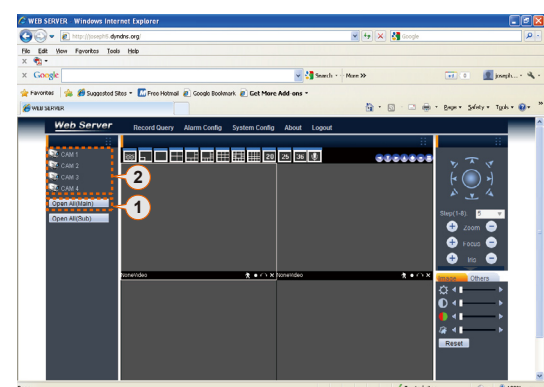


Fig. 13 Web Server

- Click the **Open All (Main)** ① in Fig. 13 to display all the images (4Ch) or each cameras (CAM1, CAM2, CAM3 and CAM4) ②.

5.2 By Mobile Phones
5.2.1 Apple iPhone

- Connect to the **App Store** on iPhone or iTunes on your computer.
- Search **"VS500"**.
- Download the **VS500** and install it on your iPhone. We recommend using WIFI for downloading and installing the App.
- Please see Apple iPhone on page 97 in the manual for more information.

5.2.2 Other Mobile Phones

This DVR is compatible with most of mobile phones such as Windows Mobile, Symbian Phone, Android Mobile and Blackberry Mobile. Please see section 7.1 through 7.4 on page 86 through 91.

- Please read the instruction manual thoroughly for more information.



For technical support call 1-877-799-8500

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STEP 1: Identify all of the following pieces

1. Model # PAC0420



STEP 2: Getting Connected

● Connect Cameras to the DVR

- Connect the first camera to **CH1** input located on the back of the DVR using the provided BNC to BNC cable.



- Connect the remaining cameras to **CH2** through **CH4** inputs accordingly.



● Connect the Mouse

Connect the included mouse to the USB Port located on the back of the DVR.



● Connect the AC Power Supply

Connect the DC plug to the DC Jack on the back of DVR and the AC socket to a wall outlet.



● Connection Completed

DVR is now ready to operate. Screen will display all connected cameras.



STEP 3: Setup and Operation

1. Login System

- Right-click anywhere on the screen in the Live mode to display **SYSTEM MENU**.
- Click the **MAIN MENU** in the **SYSTEM MENU**, then the **SYSTEM LOGIN** window will appear as shown Fig. 1.
- Select **User Name** in the **SYSTEM LOGIN** window by using the Down button.
- Click the box for **Password** to enter the **Password** by using the numeric keypad.
- Access the **MAIN MENU** by clicking the **OK** button after entering the Password.
- The **Default Password** for Admin is "888888".

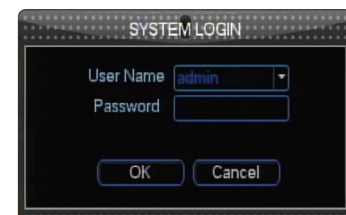


Fig. 1 System Login

2. Set Time and Date

It is important to set the time and date before commencing any operation of the Digital Video Recorder. To setup Time & Date, you must be in the Live mode.

- Right-click anywhere on the screen in the Live mode to enter the **SYSTEM MENU**.
- Click the **MAIN MENU** in the **SYSTEM MENU**.
- Select the **Setting** on TAP menu, and then select **General** icon.
- Select the values of the **System Time** (month/date/year/hour/minute/second and AM or PM) in the **General Setting** as shown in Fig. 2 by clicking the mouse, and then change the values by using the numeric keypad.
- Click the **Save** button at the bottom line of **General Setting**.
- To exit, right-click until you can back to the Live mode.

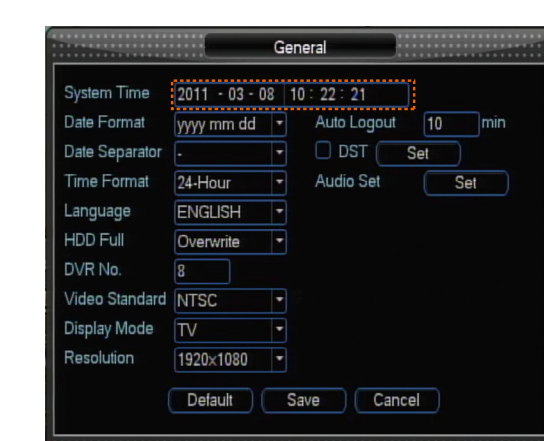


Fig. 2 General Setting

3. Recording

This system provides Watchdog function. When power goes off during recording and the power turns on, the system will automatically start recording. Recording icon () is displayed in the bottom left corner of the respective channel screen.

3.1 Schedule (Timer) Recording

The DVR comes with a number of presets. Presets allow users to record without extensive setups. Therefore immediate recording is possible by connecting the DC plug to the DC jack on the back of DVR and the **Red HDD LED** on the front panel will come on to indicate that recording has begun. This is a **factory default setting recording mode**.

- Right-click anywhere on the screen in the live mode to enter the **SYSTEM MENU**.
- Click the **MAIN MENU** in the **SYSTEM MENU**.
- Select the **Record** on TAP menu, and then click the **Schedule** icon.
- Select the **Schedule** among **Schedule**, **Manual** and **Stop** in the **Schedule** window as shown in Fig. 3 by clicking the mouse.
- Set the **Recording Start Time** and **End Time** in military time (24-hour clock) in the **Schedule 1** as shown Fig. 3 by using the numeric keypad.

- Click the **Save** button at the bottom line of **Schedule** window.
- To exit, right-click until you can back to the live mode.

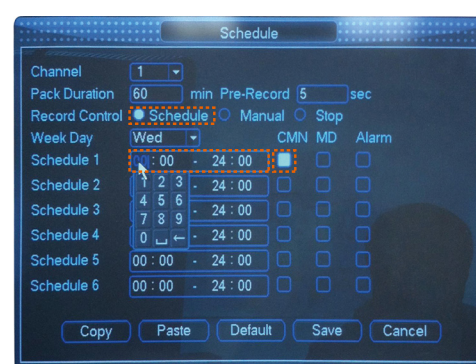


Fig. 3 Schedule Window

3.2 Manual (Continuous) Recording

- In order to record continuously, press the **REC** button on the front panel in the live mode, then the **Record Control** window will appear.

- Select **ALL** or **Channel(s)** on the **Manual REC Mode** in the **Record Control** window as shown in Fig. 4, then click **OK** to start the **Manual (Continuous) Recording**.

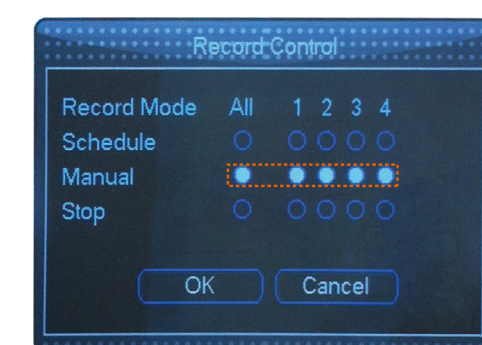


Fig. 4 Record Control

3.3 Motion Recording

The Motion Recording Mode represents the recording only when a motion is detected.

- Click **MAIN MENU** in the **SYSTEM MENU**.
- Select the **Record** on TAP menu, and then click the **Schedule** icon.

- Select the **Alarm** on TAP menu, and then **Motion Detection** icon
- Select the **Channel**, **Enable**, **Sensitivity**, **Region** and **Record CHN** as shown in Fig. 6 by clicking the mouse.

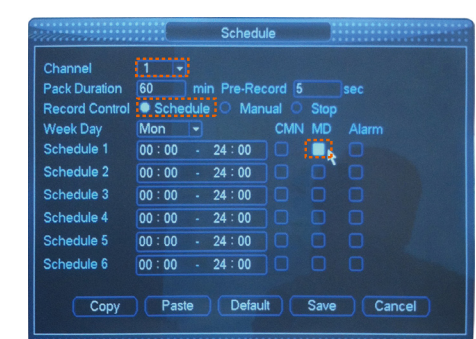


Fig. 5 Motion Setting



Fig. 6 Motion Detection

- Click the **Save** button at the bottom line of **Motion Detection** window.
- To exit, right-click until you can back to the Live mode.

3.4 Other Recording Mode

Refer to the manual.

4. Search (Playback)

- To playback, press the () button on the front panel or click the **Search** icon in the **Record** menu or click "Record Playback" in the **SYSTEM MENU**, then the **Search** menu as shown in Fig. 7 will be displayed.



Fig. 7 Search Menu

- Select Channel(s) by clicking the **Select all** ① or **Channel number(s)** ②.
- Set the **Start Time/Date** ③ you would like to search.
- Click the **Search** ④, then the recording file lists ⑤ will be displayed.
- Double-click one of the lists ⑥.

STEP 4: Networking

When the system uses the same IP address every time it connects to the network, it is known as a Static IP address. If the system's IP address changes frequently, it is called a Dynamic IP address. Check with your Internet Service Provider (ISP) to determine which IP address was given.

1. Connect Ethernet Cable

Connect the Ethernet cable (RJ-45) to back of the DVR and the other end to one of your router's LAN Ports (not included).

2. Setup IP on the system (DVR)

- Right-click anywhere on the screen in the live mode to enter the **SYSTEM MENU**.
- Click the **MAIN MENU** in the **SYSTEM MENU**.
- Select the **Setting** on TAP menu, and then click the **Network** icon.

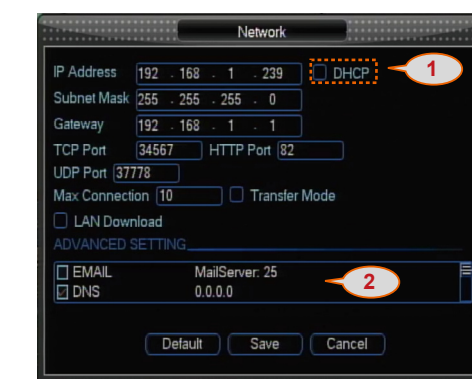


Fig. 8 Network Menu

2.1 Static IP Address

Contact your ISP (Internet Service Provider) to obtain Static IP Address information.

- Do not click the **DHCP** box ① at this time and enter **Static IP Address**, **Subnet Mask**, **Gateway** and **DNS** in the **Network** Menu shown in Fig. 8.
- Click the **Save** at the bottom line of **Network Setting**.