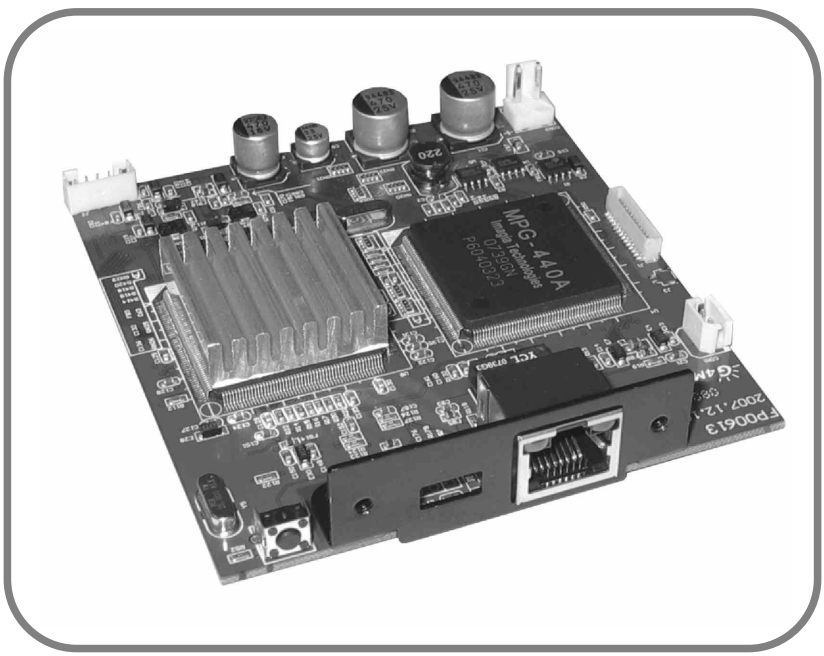
4CH DVR LAN Card

MANUAL



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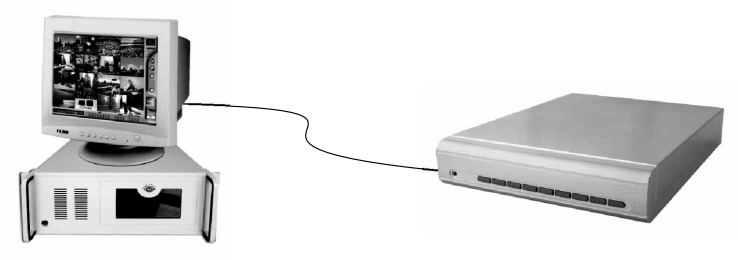
CONTENT

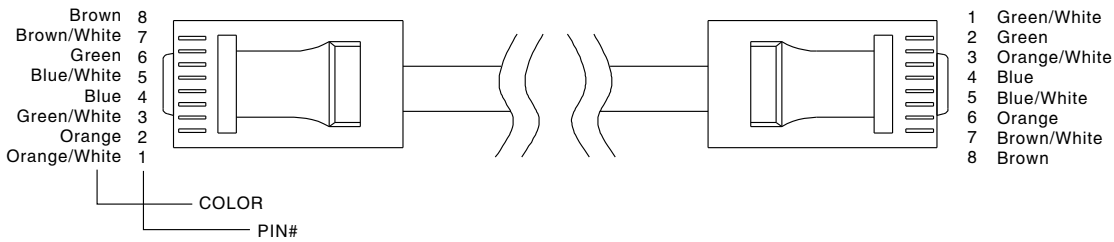
I. LAN Card SPECIFICATIONS

Compression	MPEG4		
Resolution / Transmission Speed	D1	720X480	30
	CIF	360X240	30
	HALF D1	720X240	30
	QCIF	180X120	30
Network Protocol	TCP/UDP/IP, DHCP, SMTP, HTTP,		
	DDNS, NTP, PPPoE		
File Format	MPEG-4 video stream		
Recorded format	MPEG-4 video stream		
Motion Detection	Movement on image		
Controller Interface	Internet Explorer 5.0 or above		
	Mobile Monitor System (Option)		
Video Setup via IE	Support statistic and dynamic IP address		
	Compression rate (5~16)		
Memory	2M Byte Flash ROM / 8M Byte SDRAM / 32MB DDR		
Network	10/100 Ethernet		
I/O Ports	RJ-45 network port、System Reset		
Dimensions	134mm (L)× 78mm(W)× 17mm(H)		
Weight	62g		
Power Supply	DC +12V		
Power Consumption	260mA		
Operation Temperature	0°C ~ 45°C		
Storage Temperature	0°C ~ 70°C		
Operating Humidity	10% ~ 80%		

II.LAN Card



1. Use a cross–over cable to connect DVR and PC.
   Definition of cross–over cable:



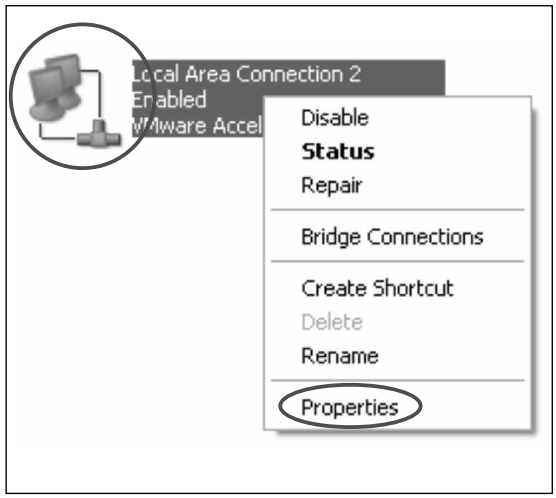
2. LAN Card default setup as follows:

Network Status	
Enternet MAC Address	00-16-55-00-00-3F
LAN Address	192.168.1.126
LAN Netmask Address	255.255.255.0
LAN Getway Address	192.168.1.1

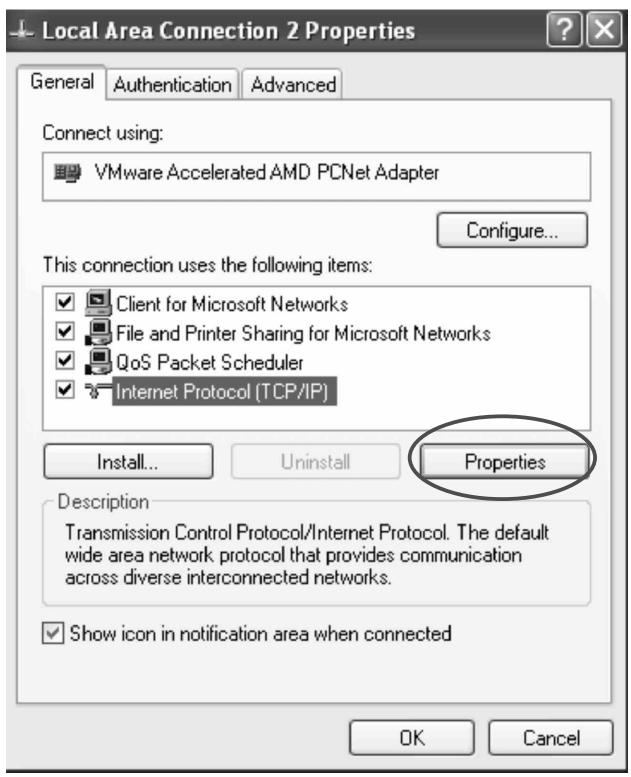
3. PC IP address setting manually:
   Set PC & LAN Card in the same network (intranet). In condition of Windowns-2000/XP OS:

a.Select “My Network Places” by Clicking mouse on the right. Click “Properties” accordingly.

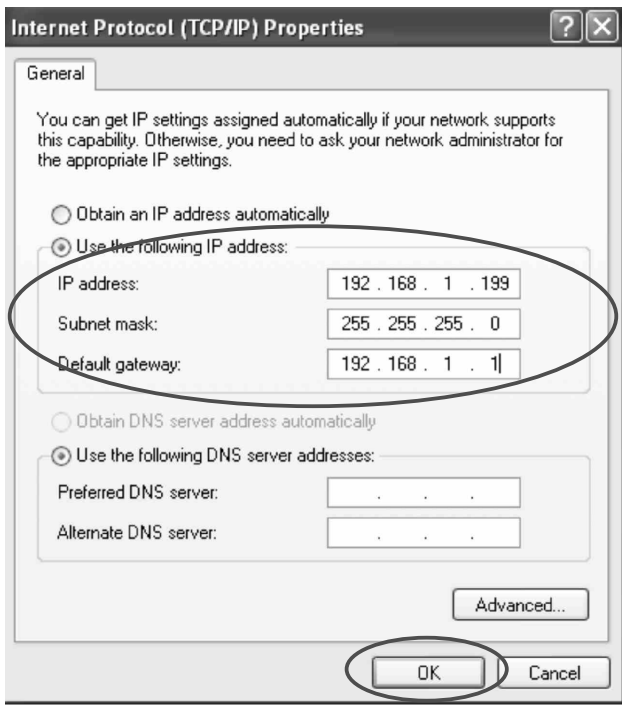
b. Select “Local Area Connection” by clicking mouse on the right. Click “Properties” accordingly.



c.Select “TCP/IP” and click “Properties.”

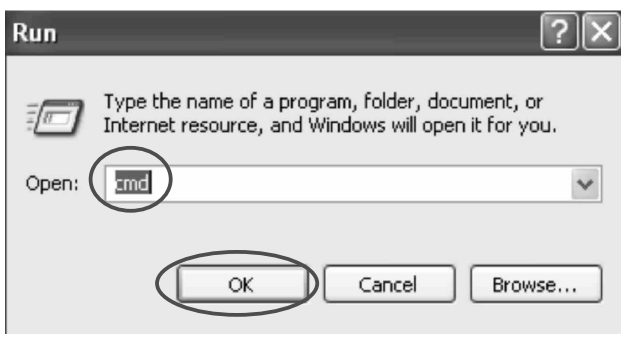


d.Select “Use the following IP address” to input IP address, Subnet mask and Default gateway. Click ”OK” accordingly.



4. Follow the following procedure to make sure IP address correct.

a. Click “Start” “Run” and input “cmd” Click “OK”.

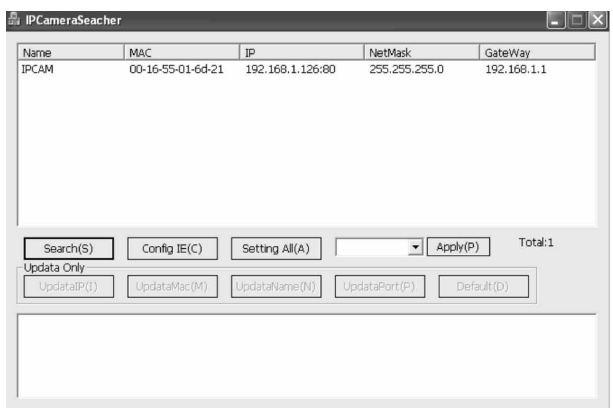


b.Enter DOS and input “ipconfig”. Click “enter” to inspect IP address, Subnet mask and Default gateway.

■ IP SET

(1) Run IPCameraSearcher program

Run IPCameraSearcher.exe program, the setup window will appear on your computer



(2).IPCameraSearcher Instruction

1.Search(S): Search all the LAN Card in the network. Click one of the LAN Card address to login.

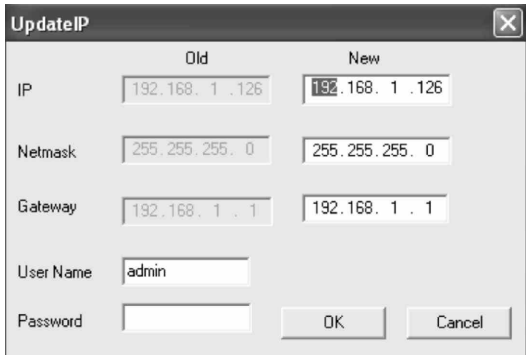
2.Config IE(C): IE Security Setup.

* Inappropriate setting might cause the browsing in accessible.

3.Apply(A): Search all LAN Card address automatically.

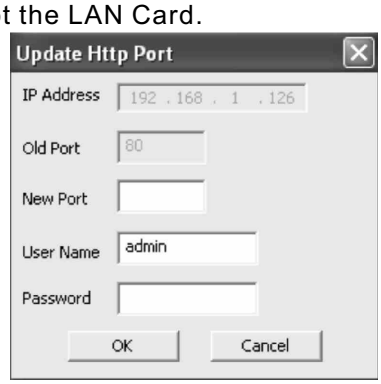
4.After setting an IP address, the following IP addresses will each automatically add up by one accordingly.

5.Update IP(I): Set the IP address of the indicated LAN Card, then press “OK” to reboot the LAN Card.



6.Update Name(N): Change user name of the indicated LAN Card, then press “OK” to reboot the LAN Card.

7.Update Port(P): Set the port of the indicated LAN Card and press “OK”to reboot the LAN Card.



8.Default(D): Restore the default value of the indicated LAN Card, then press “OK” to reboot the LAN Card.

(3). IE LOGIN

To Login:

1. In IPCameraSearcher, click the IP address of the indicated LAN Card.
2. In IE, type the IP address of the indicated IP address.

★USERNAME：admin

★PASSWORD：____（N/A）

(4). Internet Homepage Interface Operation Guide

If login succeeded, the viewer will be appeared as below:

1.PLAY/PAUSE：Play/Stop view。

2.REC：record the file in AV format (Please refer to below Video & Audio Settings to set the file saving path)。

3.SNAPSHOT：Snapshot the picture on screen in a JPG file. (Refer to below Video & Audio Settings to set a path to save JPG file.)

＊If the path is ending by a "\", it is a directory path.

＊If the path is ending without a "\", the path will link to a prefixed file name.

4.SETUP：Set system value. For futher value setup, please refer to System Setup.

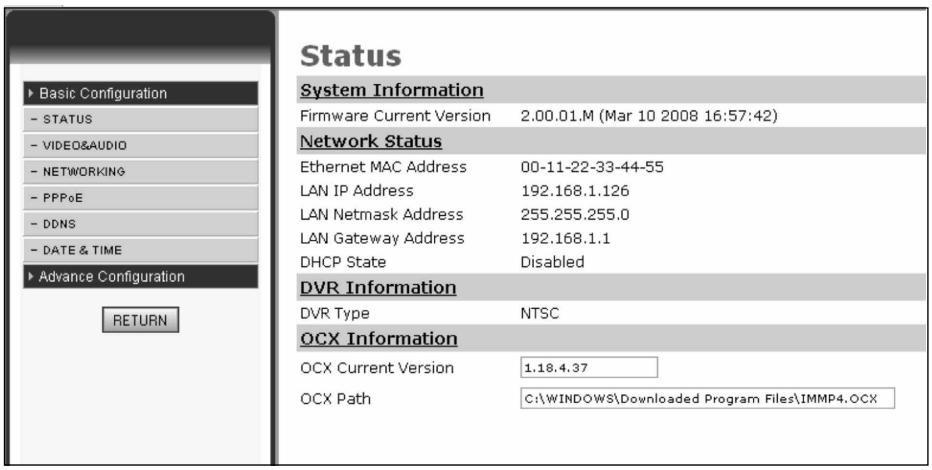
5.The Language displayed is assigned by the system

6.Remote Controller: Please refer to Remote controller Guide.

7.By mouse clicking the picture, the picture size can be adjusted by the size of browsing window.

■ SYSTEM SETUP

1. STATUS



(1).Sysetm Version

Software version：Upgrade function by firmware update.

(2).Network Status:

▲MAC address：MAC address of LAN Card.

▲IP address：IP address of LAN Card.

▲Subnet Mask：Subnet Mask of LAN Card.

▲Default Gateway：Default Gateway of LAN Card.

▲DHCP State: Dynamic Host Configuration Protocol.

When using static IP, the status will show“Disable,

”the opposite will be “Enabled.”

(3).DVR Status:

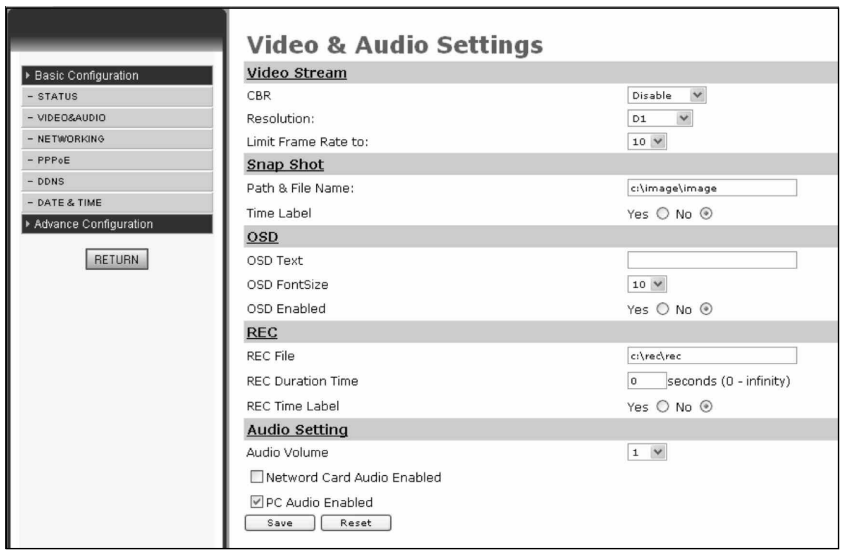
▲DVR system：NTSC/PAL

(4). OCX INFORMATION

▲OCX Current Version：Current OCX version

▲OCX Path：The path accesses to OCX

2. VIDEO & AUDIO SETTINGS



2.1 VIDEO SETTINGS

- CBR：Set the Constant Bit Rate of Video
- Resolution：Picture resolution. Four levels of resolution are provided for selection.
- Limit Frame Rate to: Frame rate transmitting per second is defined by the internet connection speed. Higher value brings smoother picture performance.

2.2 SNAP SHOT

- Path & File Namer: Set the path to save still picture taken by snapshot.
- If the path is ending by a "\", it is a directory path.
- If the path is ending without a "\", the path will link to a prefixed file name.
- Time Label：Enable or disable Time Label function.

2.3 OSD

- OSD Text: Text showing on top of the picture. Maximum byte: 32.
- OSD Font size: Size of the font.
- OSD Enabled: Enable or disable OSD.

2.4 REC

- REC File: Set the path to save recorded picture.

★ If the path is ending by a "\", it is a directory path.

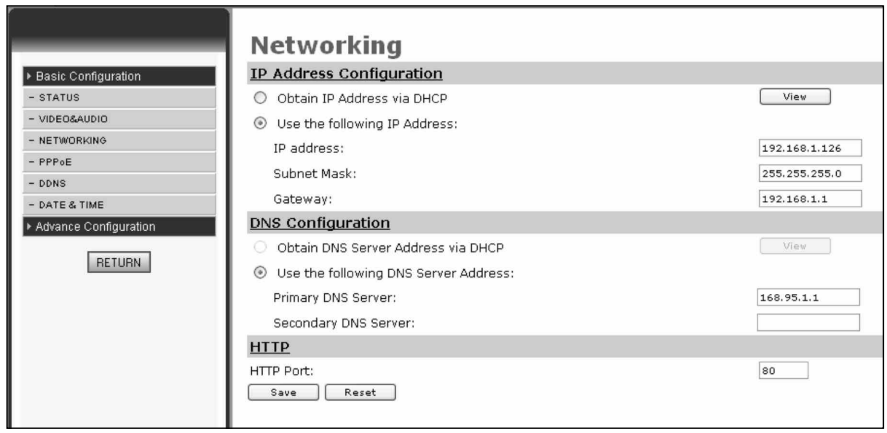
★ If the path is ending without a "\", the path will link to a prefixed file name.

- REC Duration Time：Time duration of recording.
- REC Time Label: Enable or disable REC Time Label.
- REC File Time Label: Enable or disable REC File Time Label.

2.5 AUDIO SETTING

- Audio Volume: Set audio volume.
- LAN Card Audio Enable：Enable or disable audio function on LAN Card.
- PC Audio Enable: Enable or disable audio function of PC.

3. NetWorking



3.1 IP Address Configuration

- There are two ways to set the IP address :
- Obtain IP address via DHCP: Obtain IP address via Dynamic Host Configuration Protocol.
- Use the following IP Address: Set the static IP address manually.

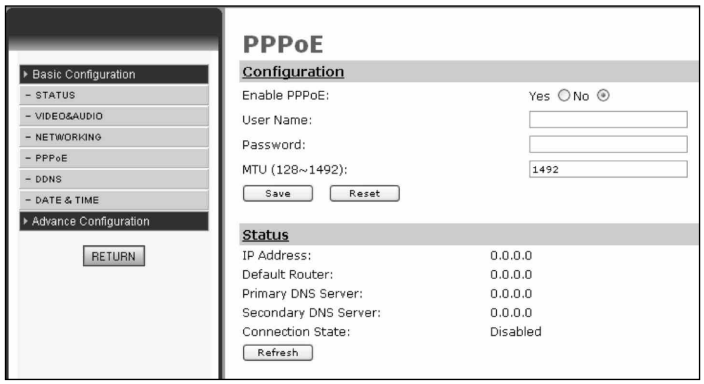
3.2 DNS configuration

- Two DNS IP addresses are allowed within this model.
- Primary DNS Server: Primary DNS IP address.
- Secondary DNS Server: Secondary DNS IP address.

3.3 HTTP

- Prefixed port: 80
- If the port is to be changed, the IP address should be changed accordingly. Ex: Original IP address is 192.168.1.126, prefixed port is 80. If the port is changed to 1000, the IP address should become: 192.168.1.126:1000.

4. PPPoE



4.1. PPPoE CONFIGURATION

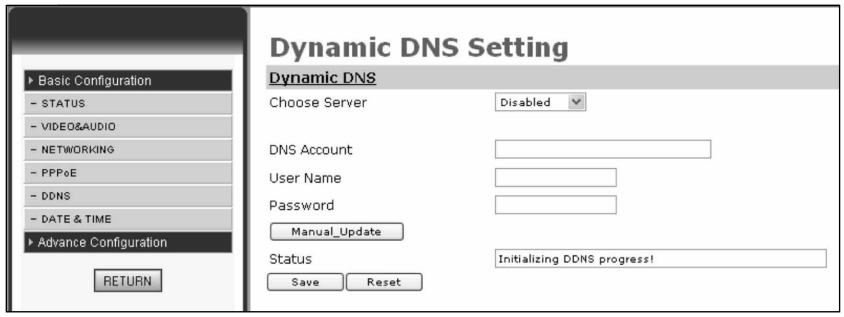
- Enable PPPoE：Enable or disable PPPoE.
- User Name：Insert the user name from by ISP provider.
- Password: Insert password from ISP provider.
- MTU (128~1492): Maximum Transmission Unit, the largest packet that can pass onwards in communication protocol, is calculated in bytes of the size. MTU is usually set in 1500 bytes for transmission. If the MTU packets are too large, it will block up a slow interface for some time, increasing the lag on other packets. Reducing the packet size will help the smoothness of transmission. Prefixed size is 1492.

4.2 STATUS

- By clicking “Refresh,” the IP status from ISP provider will be displayed.

5. DDNS

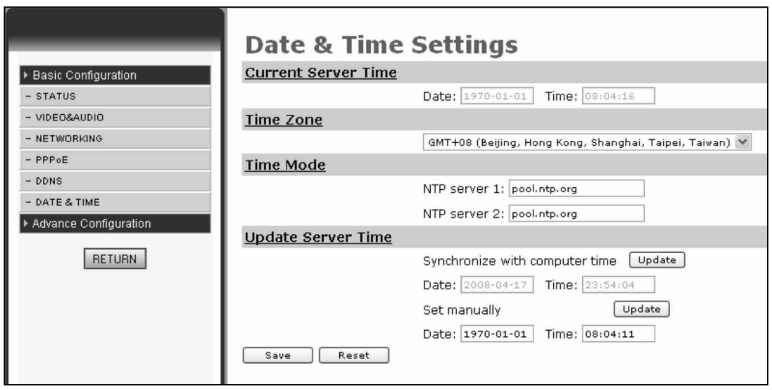
Signing up at DynDNS, PeanutHull, or perfecteyes before setting DDNS is required.



5.1 DYNAMIC DNS

- Choose Server: Choose the DDNS server that provided by DynDNS, PeanutHull, and perfecteyes.
- DNS Account: Account number provided by DDNS server, ex. test.dyndns.org.
- User Name: Account user name.
- Password: Account password.
- Manual_Update: Update manually the IP address of current LAN Card to indicated DDNS Server.
- Status: Insert the response from the DDNS server.
- Save: Save above mentioned setting.
- Reset: Reset all settings.

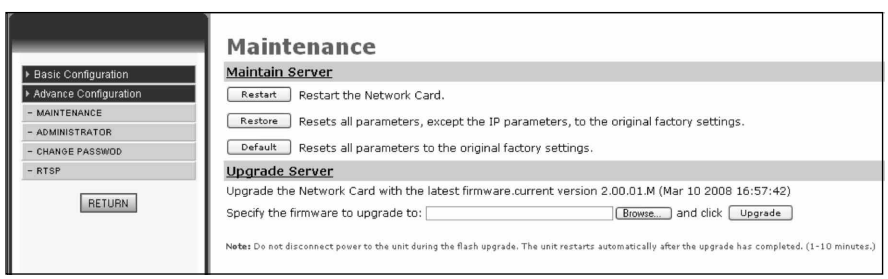
6. DATE & TIME



1.Current Server Time
Show current time at the LAN Card.
2. Time Zone
Choose the time zone where the system is at.
3. Time Mode
When network is functioning, the time can be set according to the server.
4. Update Time
Time update can be done in this section either automatically for the LAN Card current time or manually for the new time.

■ ADVANCE CONFIGURATION

1. MAINTENANCE



1.1 MAINTAIN SERVER

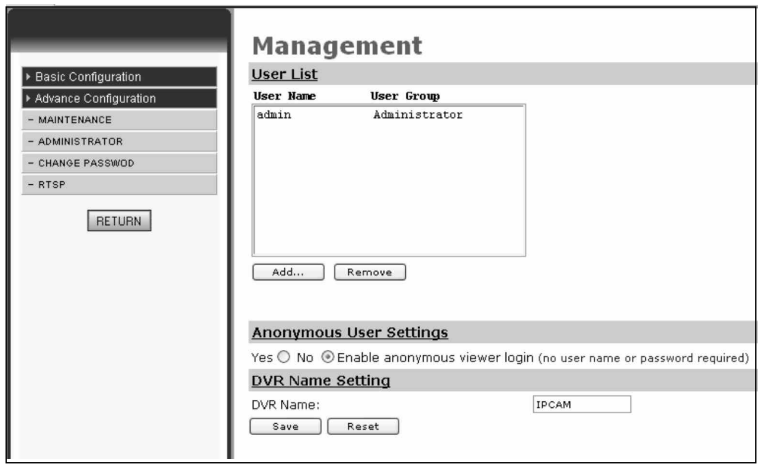
- Restart：Restart the LAN Card.
- Restore: Restore all settings except IP address.
- Default: Restore all settings.

1.2 UPGRADE SERVER

- Click “browse” and choose .IMG FIRMWARE FILE, Click “upgrade” to upgrade the firmware. Once the process is completed, click “Restore” to confirm the upgrading.

2. ADMINISTRATOR

In this section, the user can add, delete, enable/disable anonymous user, and set the LAN Card name.



2.1 USER LIST

- Add or remove users.
- Add: Click to add new users.
- Remove: Select a user name then click “remove” to remove the user.

2.2 ANONYMOUS USER SETTINGS

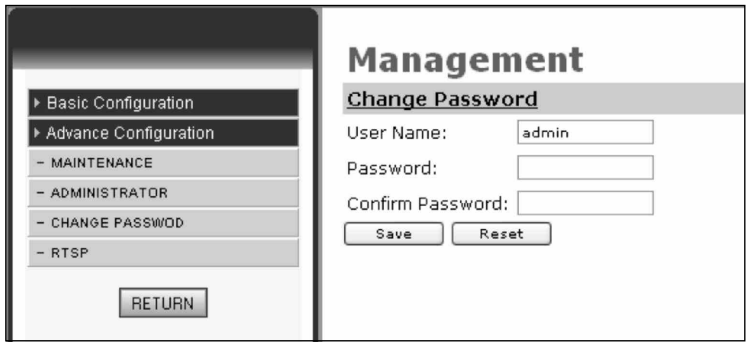
- Yes: Users can view the picture without user name and password.

2.3 DVR NAME SETTING

- DVR Name can be set with a name that is easier to remember. The name will appear on IP address list when IPCameraSearcher is scanning.

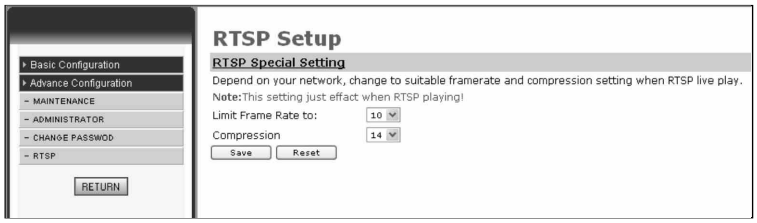
3 Management

3.1 Change Password



- User Name: Insert user name.
- Password: Insert new password.
- Confirm Password: Insert again the password to confirm.

4 RTSP Settings



1.RTSP Settings

- Frame Rate：the rate of P frame and I frame

★ The higher the number is, the fewer the quantity be transmitted, and the picture is not accurate.

- Compression ratio：The Compression of Video

III. USER GUIDE of AVPlayer

This software AVPlayer can play the recorded files with an *.av extension and also can convert an *av file to an *.avi file

1.1 THE MAIN FUNCTION OF AVPlayer

- Play the recorded file with an *.av extension.
- Supports the file conversion from *.av to *.avi.

1.2 SYSTEM REQUIREMENTS

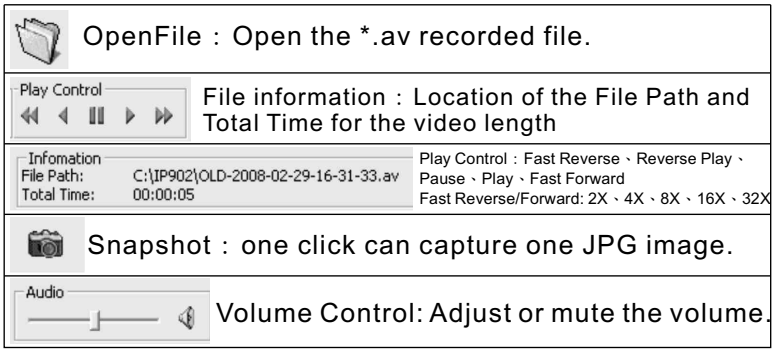
Operating System	Windows 2000(SP4)、Windows XP or later
DirectX	DirectX 7.0 version or above
CPU	More than 1.5 Ghz clock
Memory	512MB above

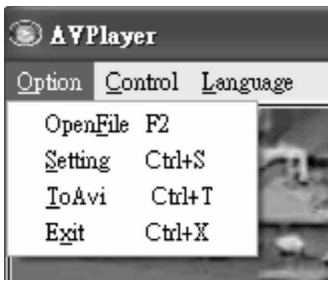
1.3 SYSTEM INSTALLATION

Perform the intallation with the enclosed AVPlayer Disc and follow the on-screen instructions to complete the installation process.

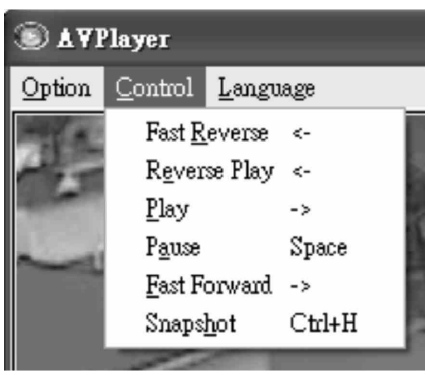
1.4 USER INTERFACE

Play Frame





- OpenFile：Open the *.av recorded file.
- Setting：Specify the path to save the snapshot image.



- Fast Reverse：2X、4X、8X、16X、32X
- Reverse Play
- Play
- Pause
- Fast Forward：2X、4X、8X、16X、32X
- Snapshot：Click the “Snapshot” to capture JPG images and one click for one image.

Language：You can choose the language

IV. MOBILE PHONE VIEW

1、JAVA Supported Mobile Phone
The mobile phone should be able to support .JPG file, CLDC1.1, or MIDP 2.0 (or more current version).
Remark:
MIDP（Mobile Information Device Profile）, designed for mobile phone and PDA, is the main APIspecification to support JAVA for mobile phones.
Comparison of MIDP2.0 and MIDP1.0: MIDP2.0 performs better than MIDP1.0 in many functions,ex. Compatibility, vibration and sound effect of games and multimedia, and graph algorithm in JAVA supported games.
CLDC 1.1：The Connected Limited Device Configuration (CLDC) defines a solid Java platform and virtual machine under program configuration. CLDC recently released a revised version of CLDC 1.0 specification—CLDC 1.1 which includes new features such as floating point support.

2、Java Quick Setup for JAVA program:
Download Mobile Viewer to the mobile phone for program setup.
Click program icon to enter main page, enter IP address of LAN Card.
EX：http://192.168.1.126/ Note: A backslash '/'must be entered.

3.Click “Advance configuration” to open website, add website, delete website or exit the program

4.Click “Open” to connect the set IP of LAN Card or website. For example: http://192.168.1.126/. Note: A backslash '/'must be entered.

5. The view shows up in the Mobile Phone after connecting LAN Card.
6. Exit the program.