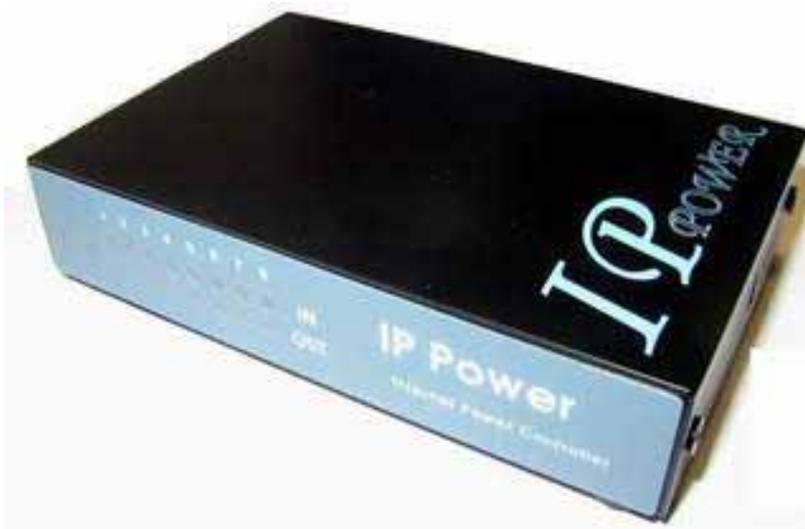


IP Power 9212

User Manual



USER MANUAL



IP POWER 9212
Version: V1.06
2006.02

Warning: any changes to this equipment without permission may cause damages to your equipment! This equipment has been proved to can be prevented from the influence of harmful electronic jamming in normal business use condition.

IMPORTANT NOTICE

1. IP POWER 9212 is deigned to be used in-door, we have no responsibility for the possible damage in out-door use especially in the rain.
2. Please use the power adaptor provided by the dealer, we have no responsibility for the possible damage in using other adaptors.
4. Do not use IP POWER 9212 in strong shaking condition
5. Please contact the dealer If IP POWER 9212 works improperly.

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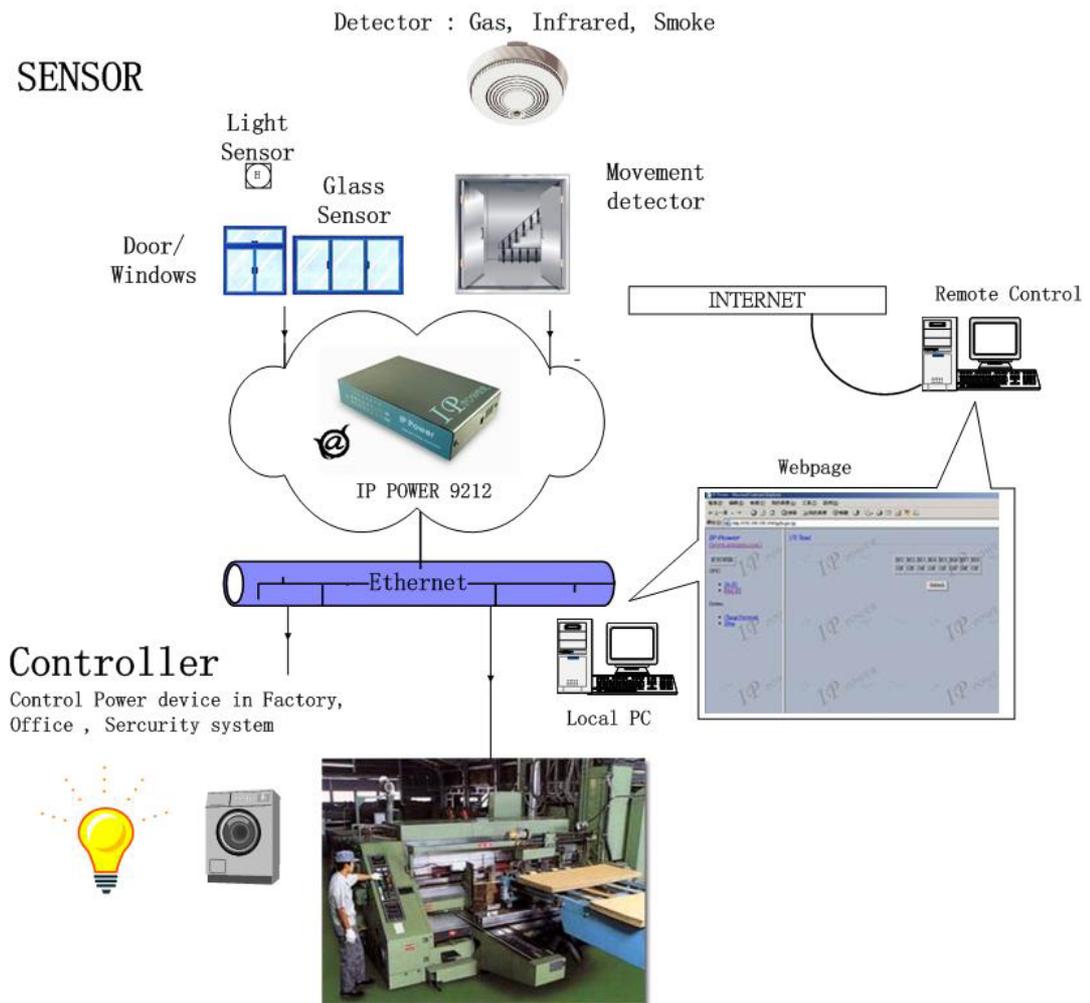


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1. Introduction

The IP Power 9212 is a Network Controller & Sensor with 8 DI & 8 DO. A specific PC or software is not needed; you can easily control devices remotely and check the device status via the Internet anywhere in the world.

Using a Browser such as Internet Explore or Netscape, you can securely access the unit. It includes 8 Digital Inputs, 8 Digital Relay Outputs and works like an IO Server. You can integrate it with Home / Office security, Personal entertainment, and Industrial field applications.

The API program is supported to help the integrator to easy program any software to integrate with existing application systems in local computers. The IP POWER 9212 can be flexibly applied to Home entertainment & industry security & systems with integrated management.

Feature :

1. Embedded web server – no need to connect to a PC – Use Ethernet or Internet (LAN / WAN)
2. Accessible with popular web browsers- IE (Internet Explore) or Netscape – DO NOT need specific S/W.
3. **Comes with 8DI & 8DO: Direct control relay output (DO) and detects digital input (DI)**
8 Set Sensor – Default 4 Set Source mode (Voltage Input) and
4 Set Sink mode (Resistance Input).
8 Set Controllers – Default 4 Set NO - Normal Open & 4 Sets NC - Normal Close
4. Network protocols supported: HTTP, DHCP, Virtual and Dynamic IP.
5. Security code identification and Hardware reset function.
6. Easy installation, setup and support with online upgrade.
7. Individual LED indicates switch-working status.
8. Safe, durable, non-electric leakage and anti-farmable design.
9. Polar protection – will even connect contrary port .
10. Digital inputs provide de-bouncing function.
11. Update firmware by the TCP/IP network.
12. SDK (Software Development Kits) provided.
13. **Embedded “ WATCH DOG “ ,**
14. Compatible with OUR IP Kamera 9000, IP Video 9100 and IP Power 9201E(IP Sensor) for monitoring, control, and detection via any online PC.
15. **Support GPRS – setting by for online Cell phone (item limit) .**
16. **Support SMTP : Send IP address by E-mail as log in and send e-mail as detecting sensor trigger.**

Specification: 1. DC 5V (AC90-240 input) 2. D-SUB In & Out port. 3. RJ45

Application field: can be associated with any kind of electrical equipments, no matter household appliances or security equipment. It can manage the power supply through the web page; make it be safer for the security equipment and more convenience for digital control at the far end.

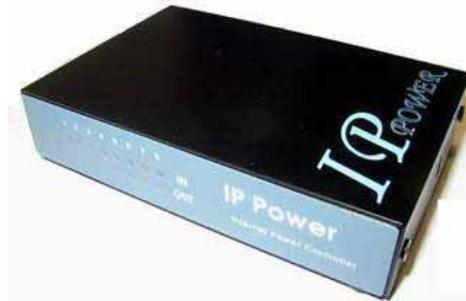
Industrial application field: bank, financial security system, jewels, casino, cash register in supermarket, park, traffic control, military equipment and airport.

2. Before you start

9212 package contents

- One set of IP POWER 9212

Main Board : 9200



Sensor board :9201 Pro



Control Board : 9202 Pro



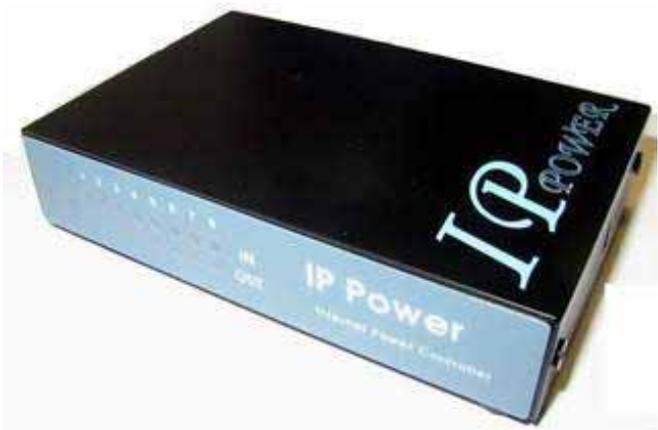
- One network wire with RJ45 port
- One 1A, 110~220V adaptor
- One D-Sub 15 Pin cable
- One install disc
- One rapid install manual

Minimum System Requirements

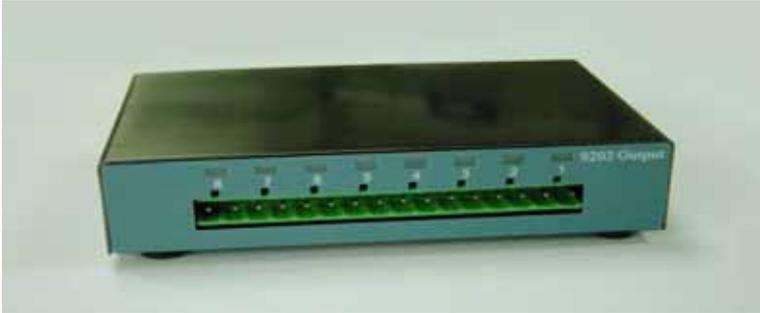
- Minimum Intel Pentium II 300MHz/compatible AMD processor
- WINDOWS operating system (IE5.0+SP1)
- Minimum 64MB RAM
- VGA Card: with capability of displaying full-Colors and DirectDraw support
- Network card with RJ45 port
- Ethernet Hub / Router
- Internet network (Ethernet, xDSL or other ways, depends on whether you need far end control ability or not)

3. Interface Description

IP Power 9212 has three devices , 9200 is the network module, and the followed picture shows its interface:



9202 is the output module and figure below shows its interface:



9201 is the input module and figure below shows its interface:



4. Hardware & Software installation

Before you start to use IP Power 9212, please follow the steps below:

- Check the package to make sure the contents is complete.
- Prepare one Ethernet HUB, or Router
- Check the voltage of the power supply to make sure it is AC 110-240 volt

Hardware Installation : Connect RJ45 first then POWER jack

- 1 Connect the 9200 to HUB through RJ 45 netting cable.
- 2 Connect the 9200 (IN) to 9201 & 9200 (OUT) to 9202 through D-SUB cable.
Please connect 9200 D-SUB IN to 9200 IN port
& 9200 D-SUB OUT to 9202 OUT port
- 3 Connect the HUB to the Internet (May through ADSL/XDSL modem).
- 4 Connect the power adapter to the 9200.

Power on your computer and power adapter of IP POWER 9212.

9201Pro Hardware connection (recommend):

For different request of normal state of electric equipment, 9201 offers four sets of voltage signal IN1-IN4 and four sets of shortcut circuit signals IN5-IN8.

9201 Pro provide 4set Source mode - Voltage Input – Out 1 ~ Out 4

ON : 4V~24V

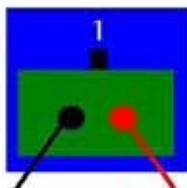
OFF : 0V ~ 3V

4 set Sink mode - Resistance input – Out 5 ~ Out 8.

ON : 200 ohm~ 0 ohm

OFF : 500 ohm ~

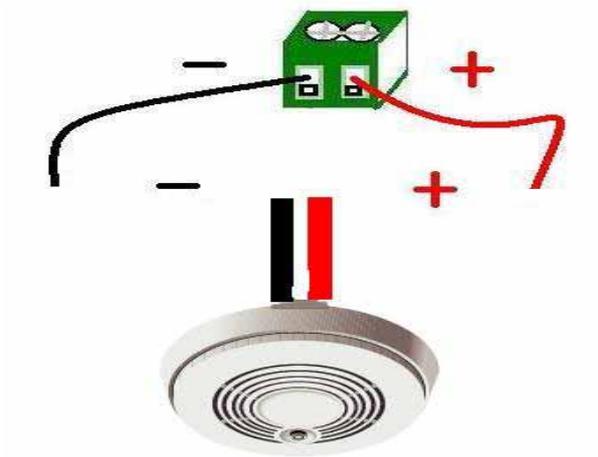
1. The polarity: Right - Positive & Left – Negative .



Left : Negative (-) Right : Positive (+)

NOTE: Because of the polarity protective function, it won't damage the product if you reverse the polarity in installation. But it will cause the product cannot work properly

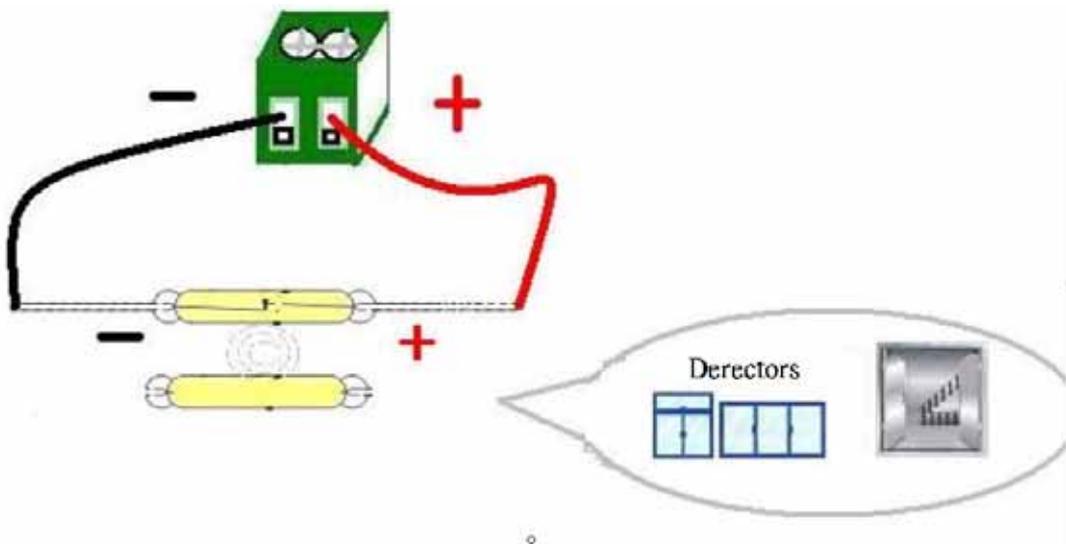
2. Source mode (Voltage signal) -- IN1 & IN4: can be connected to voltage signal detectors such as smoke detector, light detector and gas detector.



3. Sink mode (Resistance signal) —IN5 & IN8: can be connected to magnetic reed switch as the follow figures

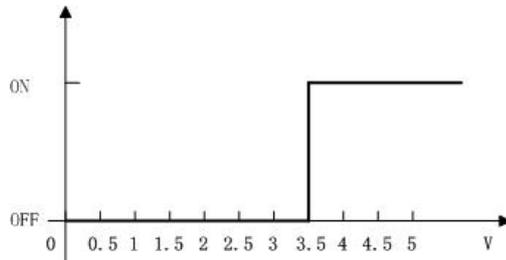


It can be installed in the entrance guard or security equipment such as doors, windows, drawers and safe case..



Source mode (Voltage input) :

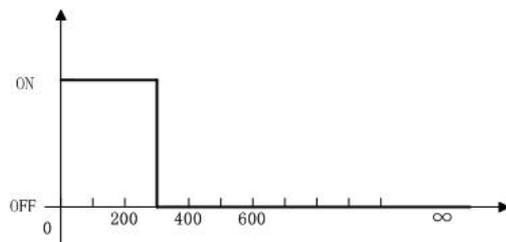
IN1-IN4 contacts are active signal sensor. If the voltage difference between the two contacts in one set within 0V~3V, 9212 shows ON. If the voltage difference within 4V~24V, 9212 shows OFF. So user can detect the change of equipment. Such as smoke detector, light detector and gas detector.

**NOTE:**

1. The data in this figure is the average measure value. To ensure the correct detection, we suggest user set the voltage lower than 3V when it shows OFF and higher than 4V when it shows ON
2. The maximum measure voltage is 24V.

Slink mode (Resistance Input) :

IN5-IN8 contacts are short circuit sensor. If the resistance between the two contacts in one set within 0Ω~200Ω, 9212 shows ON. If the resistance within 500Ω~∞, 9212 shows OFF. So user can detect the movement of equipment through the magnetic reed switch or other kind of reactive sensors.

**NOTE:**

1. The data in this figure is the average measure value. To ensure the correct detection, we suggest user set the voltage lower than 200Ω when it shows ON and higher than 500Ω when it shows OFF.
2. When measure the resistance of web contacts, the maximum voltage is 5V and the maximum currenxy is no more than 10mA

PS: magnetic reed switch: using the magnetic field of the magnet to produce a signal when there is a movement happened in switch. Low cost and easy to use is the chief characteristic of magnetic reed switch. Most of them are used in security equipment, living product and automatic mechanism.

9202 Pro Hardware connection (recommend)

IP Power 9202 Pro offers 4 sets of NC(Normal Close) – Out 1 - Out 4
4 sets of NO (Normal Open) –Out 5 - Out 8.

Maximum Rated Voltage: 240V/AC, 60V/DC

Maximum Rated Currenxy: 12A AC/DC

Maximum rated voltage for Single relay : 24V/ 10A , 120V/ 10A , 250/ 7A

Maximum Switch time: Max 10ms

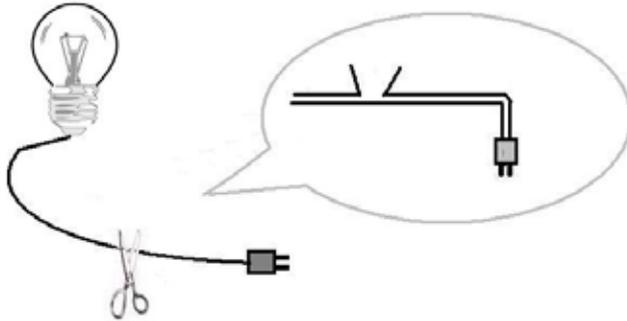
Environment Temperature: -30°C~ + 55°C

NOTICE: Only the professionals should operate the following operations in this section and the common user DO NOT try it!

For example—Light ball

1 Use the electrical wire of the equipment :

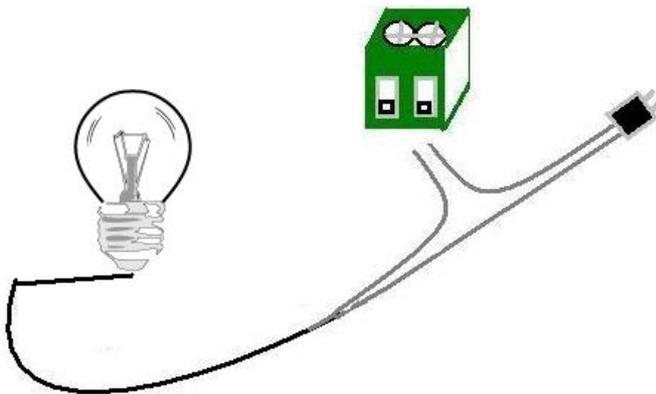
Step 1 : Cut off the live wire. (Use a test pencil or screwdriver with voltage tester to identify the **live wire** between the two wires of electrical wire.)



NOTICE: this method must cut off the electrical wire of the household appliance. Please make the decision after reading method 5-2 and 5-3.

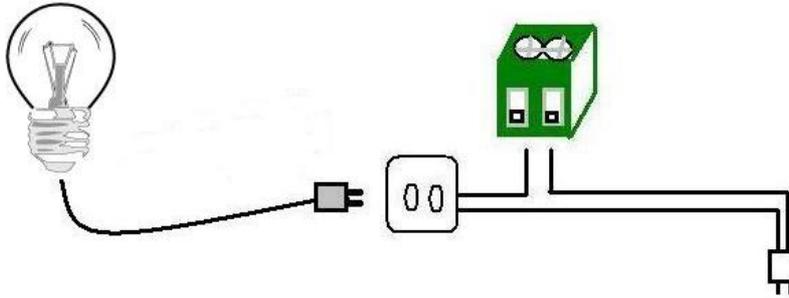
Step 2: Use a test pencil or screwdriver with voltage tester to identify the **live wire** between the two wires of electrical wire. Cut off the live wire and connect to the port of IP Power 9212. **Use the test pencil or screwdriver with voltage tester again to make sure the connection is correct.**

NOTICE: BE CAREFUL IN THIS OPERATION AND DO NOT TOUCH THE WIRE UNDER VOLTAGE WITH ANY PART OF YOUR BODY, ESPECIALLY WITH YOUR HANDS



2. **Use additional electrical wire:** you can buy some electrical wire and outlet in the electrical shop to cooperate with IP Power 9212, avoid cutting off the electrical wire of the equipment and can be used flexible in all kind of electrical equipment.

NOTICE: Use a test pencil or screwdriver with voltage tester to identify the live wire between the two wires of electrical wire and make sure of connecting the live wire to the port of IP Power 9212.



3. You can control multi power by use the power extension cord



NOTICE: Do not connect too much energy intensive electrical equipment such as air conditioner, electrical heater, microwave oven or oven in the same electrical outlet. Too much electrical current may cause fire. This product does not guarantee the possible damage because of too much electrical current.

Software installation

Having connected the power supply and network cable with RJ45 port to the 9200, please install the software as the following steps:

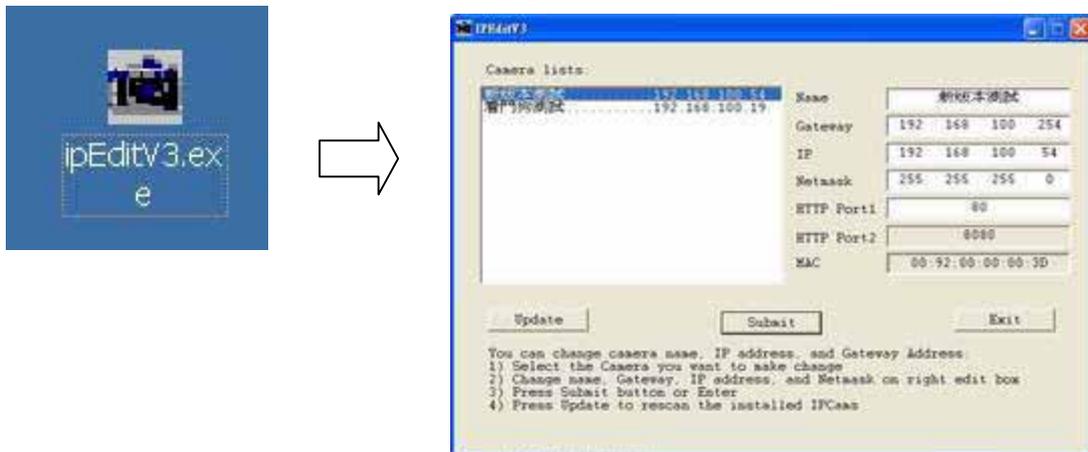
1. Start your computer, put the install disc in the CDROM, and then find the file named ipeditv3.exe in the install disc.
2. Copy the file to desktop or any directory you want save to.
3. Start the initial setting process following the construction in next section.

NOTICE: IP Power 9212 needs not any driver of application software; its entire operation interface is built in its hardware. Ipeditv3.exe can find the virtual IP address for you.

5. Initial Settings

Initial settings through the Ethernet

1. Double click the IPEditV3.exe :



2. All the IP 92XX series, IP Kamera 9000 series/ IP Video 9100 series in the same subnet of the Ethernet will be found and be display in the window by the software. The default name of IP Sensor 9212 is **IP POWER**.

IPEditV3 can adjust Name / Gateway / IP / Netmask / HTTP Port1)

Name	12345678
Gateway	192 168 100 254
IP	192 168 100 82
Netmask	255 255 255 0
HTTP Port1	80
HTTP Port2	0
MAC	00:90:00:00:0B:53

- 2-1 : Change Name : MAXIMUM 10 DIGIT
- 2-2 : After Change Gateway , IP, Netmask (xxx.xxx.xxx.0 ~ xxx.xxx.xxx.254) or Port1(1~32767) , the device will turn off DHCP .
- 2-3 : Click the IP in Lists will open the webpage , please type the IP Address if using Netscape

3. Click the equipment's name that you want to edit in the left of the window; it will turn fuscous, the equipment's name and IP will display in the windows, you can rename . After that, click the update button and the new setting will be work in 20 seconds.

4. Double click the name of the equipment you want to control, the IE browser window will open and connected to this equipment in that Ethernet automatically. You also can type the IP address of the 9212 in the IE browser to open the web page of 9000. We suggest you to update the IE to

version 6.0 with SP1 or above if your IE notices you the security level is too low to open that web page.

NOTICE:

1. Make sure the RJ45 network wire have been connected correctly and the 9212 are power on.
2. It can obtain the virtual IP address after you run the ipeditv3.exe only if the Ethernet support DHCP. Click the IP address to enter the web page. If the Ethernet not support DHCP, IP92XX will change it's IP address to fixed IP address. Please follow the steps below to change the subnet of your PC:
3. If can not get in the 92XX web page , please set the segment of IP 9060(A) to be same as your PC.

* You can get your PC network information – IP Address, Subnet Mask and Default Gateway by step: start → execute → key “cmd” in dialog → key “ipconfig” in MS-DOS mode

```

C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Chiu>ipconfig

Windows IP Configuration

Ethernet adapter 區域連線:

    Connection-specific DNS Suffix  . :
    IP Address. . . . .                : 192.168.100.31
    Subnet Mask . . . . .              : 255.255.255.0
    Default Gateway . . . . .          : 192.168.100.254

C:\Documents and Settings\Chiu>
  
```

The last digit of IP address can be any number between 1~254, but can not be same as your PC. If using in any PC, just use HUB and type the 192.168.0.100 in Browser or use “ipedit.exe “ then you can get in the webpage.

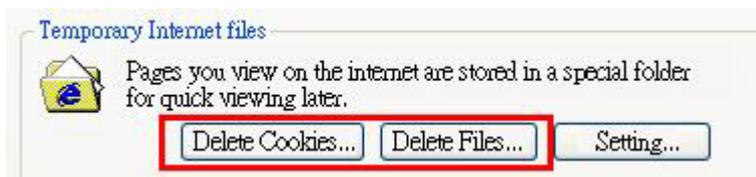
* Same **SEGMENT** : The first 3 number of IP address is same - XXX.XXX.XXX.abc. The part of XXX is same. Fro Example : IP address is **192.168.1.100** , then another IP address **192.168.1.123** is the IP in same segment .

4. The default username and password of IP Power 9212 are:
Username: admin
Password: 12345678

If forget the new password , you can key in superuser in username , and hardware reset the device to set the default setting Password : 12345678 。 (for security concern)).

5. Please refer software - Infinity Cam to use IP Power , IP Sensor , IP Kamera & IP Video in one video screen.

6. **Note** : if stay for long time as in webpage , you would be unable setting and see message “ **Cookie time out** “ , please go to IE to change setting: “ Tools “ → “ Internet operations ” , please click “ Delete Cookies “ and “Delete files “ in “ Temporary Internet file “ .



6. Control and settings through the Internet

Type the new IP address of IP Power 9212 in the address field and you can enter the login web page. Input the default password 12345678(you can change the password as you wish), click the **OK** and then you can enter the Web Control page.

1)Maximum 8 digit for Password .

Welcom to IP Power WebControl

Please enter password. (maximum = 8)

User Name

Password

OK Cancel

IP Power

IP POWER

GPIO

- [Set I/O](#)
- [Read I/O](#)

System

- [Change Password](#)
- [Setup](#)
- [E-Mail](#)
- [Firmware Update](#)



IO Control

PIN I/O	Control	Timer
OUT 1(NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off
OUT 2(NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off
OUT 3(NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off
OUT 4(NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off
OUT 5(NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off
OUT 6(NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off
OUT 7(NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off
OUT 8(NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0 Sec <input type="radio"/> On <input checked="" type="radio"/> Off

Apply Reset Cancel Test-itself

Sensor of IP Power 9212 : Read IO

Source mode (Voltage input) :

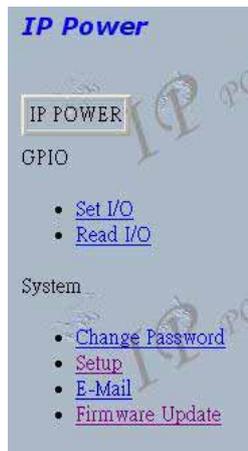
IN1-IN4 contacts are active signal sensor. If the voltage difference between the two contacts in one set within 0V~3V, 9212 shows ON. If the voltage difference within 4V~24V, 9212 shows OFF. So user can detect the change of equipment. Such as smoke detector, light detector and gas detector.

Sink mode (Resistance Input) :

IN5-IN8 contacts are short circuit sensor. If the resistance between the two contacts in one set within 0Ω~200Ω, 9212 shows ON. If the resistance within 500Ω~∞, 9212 shows OFF. So user can detect the movement of equipment through the magnetic reed switch or other kind of reactive sensors.

NOTE:

1. The data in this figure is the average measure value. To ensure the correct detection, we suggest user set the voltage lower than 200Ω when it shows ON and higher than 500Ω when it shows OFF.
2. When measure the resistance of web contacts, the maximum voltage is 5V and the maximum currenxy is no more than 10mA



IN 1	IN 2	IN 3	IN 4	IN 5	IN 6	IN 7	IN 8
Off	Off	On	Off	Off	Off	Off	Off

Refresh

Click the **refresh** button and you will see the similar figure like this. It represents the state of the four sets of input signals (there may be some delay, it up to your network). You also can press the check button in the PCB of 9212, click the **refresh** button in the web page at the same time and then observe whether the input signal state shows **ON** in the web page.

Control of IP Power 9212 : SET IO

IP Power 9212 now can control 8 outputs at the same time.

Out1 & Out4 are normal close switches. When it is **on**, the corresponding LED lights up, the circuit between the two connects is turnoff. When it is **off**, the corresponding LED light off, the circuit between the two connects is turn on.

Out5 & Out8 are normal open switches. When it is **on**, the corresponding LED lights up, the circuit between the two connects is turn on. When it is **off**, the corresponding LED light off, the circuit between the two connects is turn off.

1. Auto test function

PIN I/O	Control	Timer	Sec	On	Off
OUT 1 (NC)	<input checked="" type="radio"/> On <input type="radio"/> Off	1	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 2 (NC)	<input checked="" type="radio"/> On <input type="radio"/> Off	3	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 3 (NC)	<input checked="" type="radio"/> On <input type="radio"/> Off	5	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 4 (NC)	<input checked="" type="radio"/> On <input type="radio"/> Off	7	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 5 (NO)	<input checked="" type="radio"/> On <input type="radio"/> Off	9	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 6 (NO)	<input checked="" type="radio"/> On <input type="radio"/> Off	11	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 7 (NO)	<input checked="" type="radio"/> On <input type="radio"/> Off	13	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 8 (NO)	<input checked="" type="radio"/> On <input type="radio"/> Off	15	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	

Apply Reset Cancel Test-itself

Click the **test-itself** button and you will see the figure above. The states of OUT1, OUT2, OUT3 and OUT4 will separately keep in ON for 1 second, 3 seconds, 6 seconds and 8 seconds, then all back to OFF. After one period, four outputs will keep in OFF state for the same time. This process will repeat until you click the **reset** or **cancel** button.

2. Set the output's state to ON/OFF

Click the **output** you want to change, set it to ON or OFF state and click apply button to finish the setting.

PIN I/O	Control	Timer	Sec	On	Off
OUT 1 (NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 2 (NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 3 (NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 4 (NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 5 (NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 6 (NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 7 (NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 8 (NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	

Apply Reset Cancel Test-itself

3. Set one output be in ON/OFF state at the appointed time

You can set the state when one output starts, either ON or OFF. You can also set the delay time and the action when the delay time is up. Then click **apply** button to confirm it. The example shows in the figure above means the OUT3 will be in ON state when it starts and will changes the state to OFF after 30 seconds.

PIN I/O	Control	Timer	Sec	On	Off
OUT 1 (NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 2 (NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 3 (NC)	<input checked="" type="radio"/> On <input type="radio"/> Off	30	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 4 (NC)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 5 (NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 6 (NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 7 (NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	
OUT 8 (NO)	<input type="radio"/> On <input checked="" type="radio"/> Off	0	Sec	<input type="radio"/> On <input checked="" type="radio"/> Off	

Apply Reset Cancel Test-itself

4. Reset the ON/OFF settings

Click the **reset** button you can cancel the previously output settings.

Setting the password for IP Power 9212

Click the **change password** option at the left window and you can enter the change password page. Follow the instructions, fill in the old password and new password, then click the **apply** button to confirm.

Change Password

Old Password:

New Password:

Confirm New Password:

1. Setting a fixed IP address for IP Power 9212.

Click the **setup** option in the left side of the window and you can enter the setting web page. Then follow the instructions fill in the new IP address, mask, and gateway for IP Power 9212, forbidden the DHCP service, click the **submit** button to confirm.

IP Power

IP POWER

GPIO

- [Set I/O](#)
- [Read I/O](#)

System

- [Change Password](#)
- [Setup](#)
- [E-Mail](#)
- [Firmware Update](#)

Set Network

IP Address: 192 . 168 . 100 . 19 : 80

Subnet Mask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 100 . 245

DHCP Client Enable Disable

Set Controlled Device

Connect Client Divide Light Motor

Controlled IP Address: 192 . 168 . 100 . 19

Product Name: IP Power 9212-Pro

Notice :

- 1)The format of IP Address : xxx.xxx.xxx.xxx: yyyy , the port range of yyyy is 1~32767.
- 2) The range of Subnet Mask is xxx.xxx.xxx.0 ~ xxx.xxx.xxx.254.
- 3) If disable DHCP , you can set TCP Port and Default Gateway ; the default port of DHCP Enable is xxx.xxx.xxx.xxx:80 , and the Default Gateway is supply by server .
- 4) If use the port other than 80 , you need to key full address <http://xxx.xxx.xxx.xxx:yyyyy> in IE/ Netscape , or use the attached program IPeditV3.exe to login..

5) When setup the setting please confirm the IP Address & Controlled IP Address is same address.

Special Hardware Inter-Control - 92XX series : Use 9201 / 9212 (DI part) to control (IP Power 9212 & 9202 / IP Sensor 9201 / IP Motor 9203)

The screenshot shows a network configuration window with the following fields:

- Set NetWork**
 - IP Address:** 192 . 168 . 100 . 19 : 80
 - Subnet Mask:** 255 . 255 . 255 . 0
 - Default Gateway:** 192 . 168 . 100 . 245
 - DHCP Client:** Enable Disable
- Set Controlled Device**
 - Connect Client:** Divide Light Motor
- Controlled IP Address:** 192 . 168 . 100 . 19

1. 92XX series Inter-Control function : Use DI (Digital Input) sensor device as main controller A (Like 9212 or 9201) to controlled device B (like 9212 / 9202 / 9203) .

Correspondence connectors :

Main Controller					
9212	IN 1	IN 3	IN 6	IN 8	IN 3 + IN 6
Controlled device					
9202	IN 1	IN 2	IN 3	IN 4	X
9212	IN 1	IN 3	IN 6	IN 8	X
9203	Keep turn left	Turn left-1step	Turn left-1step	Keep turn left	STOP

Main Controller					
9201	IN 1	IN 2	IN 3	IN 4	IN 1 + IN 3
Controlled device					
9202	IN 1	IN 2	IN 3	IN 4	X
9212	IN 1	IN 3	IN 6	IN 8	X
9203	Keep turn left	Turn left-1step	Turn left-1step	Keep turn left	STOP

2. Connect Client setup :

- A. Divide : this device word separate ly and do not use Inter-Control
- B. Light : This device can control 9202 / 9212 (IP Power) - by change the default setting of : Normal close or normal open
- C. Motor : This device can control 9203(IP Motor) –control the direction of turning..

3. Controlled IP Address: Setting the Ip Address of controlled device .

In Inter - control mode when transfer , . the Out Light(P6.1/P6.2) will always on , if the main controller freeze the Out Light P6.1 is always on , if the controlled device freeze , the light of P6.2 is always on.

2-1 For example : Control Ip Motor by DI board of IP Power 9212

Step 1 : Go to SETUP , change Connect Client and set as Motor ,

Step 2 : key in the IP address of controlled device (IP Motor)

Connect Client	<input type="radio"/> Divide <input type="radio"/> Light <input checked="" type="radio"/> Motor
Controlled IP Address:	<input type="text" value="192"/> . <input type="text" value="168"/> . <input type="text" value="100"/> . <input type="text" value="13"/>
Product Name:	IP Power 9212-Pro

Step 3 : Click Submit to confirm setting , when the count windows is off , the new login windows jump out as following pictures.

Welcom to IP Family WebControl

Please enter password. (maximum = 8)

User Name

Password

SMTP for E-Mail : receive IP address & inform as Sensor trigger

IP Power can setup the e-mail address for receive change from sensor part . As setting up the receiver e-mail address, IP Power will send its IP Address to receiver .

Email Setting

Receiver:	12345678@abcd.com 87654321@dcba.com
Sender:	abcd@168.com
Mail Server:	168.com
Mail Password:	●●●●●●
Warning MSG:	Alert

1 2

Apply Send Cancel

Setting Sample :

Receiver: 12345678@abcd.com 87654321@dcba.com
 Sender: abcd@168.com
 Mail Server: 168.com
 Mail Password: ●●●●●●
 Warning MSG: Alert

After type in all the information please click “apply” first to save the change and then “send ” to send mail.

There is status bar next to at the clock : There are four possible situation for sending e-mail.



- a. **Mail send OK** : Receiver should receive mail in short time.
- b. **User or password error** : After change the username and password please click “apply”

To save setting and click send to

- c. **Mail ahead sending , please send later** : Mail server was block as lots mail
- d. **Connect time out , mail to be dropped** : please login again

1) Receiver : can be 2 receiver e-mail address, please use space between two e-mail address.
 After setup, ever time you login , IP Power 9212 will send receiver the IP address.

2) Mail Server : must be a mail server which can supply e-mail transfer and support SMTP function .

- 3) Warning MSG: the title of the e-mail.
- 4) The maximum digits of each item:
 - a)Receiver : 0x200(512 bytes)
 - b)Sender : 0x30 (48 bytes)
 - c) Server: 0x30 (48 bytes)
 - d) Password: 0x30 (48 bytes)
 - e) Warning MSG(text) : 0x50 (80 bytes) –can be empty
- 5) Mail contents include : "From:", "To:", "Subject", "IP Family Address"

GPRS for Cell Phone : Support WAP

IP POWER 9212 support GPRS function , you can use cell phone (with online function)
To setup the online device (real IP address) as operate in browser .:

- 1) Address setting : add "/wap" after your online IP address .
For example : <http://65.59.37.123/wap>
or appointed port [http://61.59.32.147\[:8080\]/wap](http://61.59.32.147[:8080]/wap)
the interface is same as in IE(Internet Explore) .
- 2) The IP Address must be real ip address and can be work on Internet..
- 3) The name of IP device must be English , or will be encode in wap.
- 4) Before using WAP control, please check if your cell phone support GPRS and if your number had apply online service.

We support : Motorola V878 , Sony Ericsson T630 and Siemens.

Software online update :

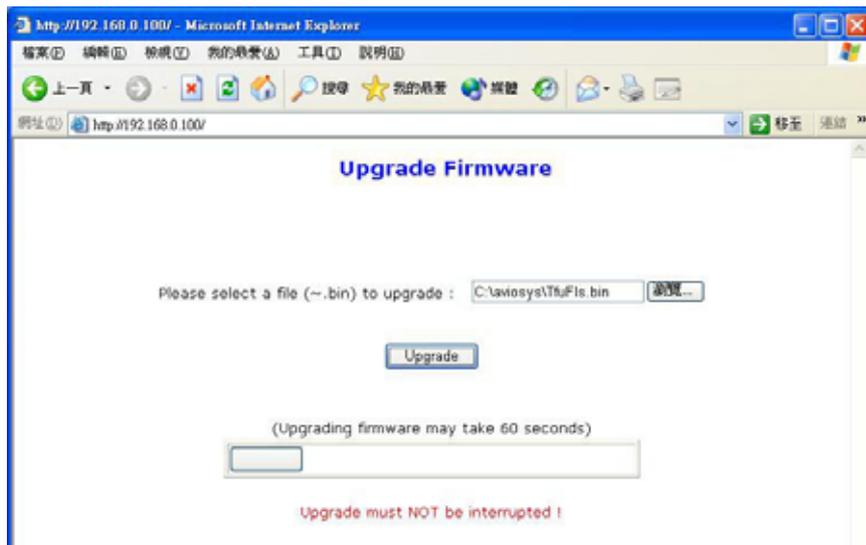
For wild application in different filed , IP POWER 9212 support online update .It safe time and money as developing your product .

Step 1 Login the webpage

Step 2 Click Firmware Update and click update



Step 3 Click browser to use latest Firmware then click Upgrade to update Firmware



Step 4 after finish update please wait some second and then re-log In



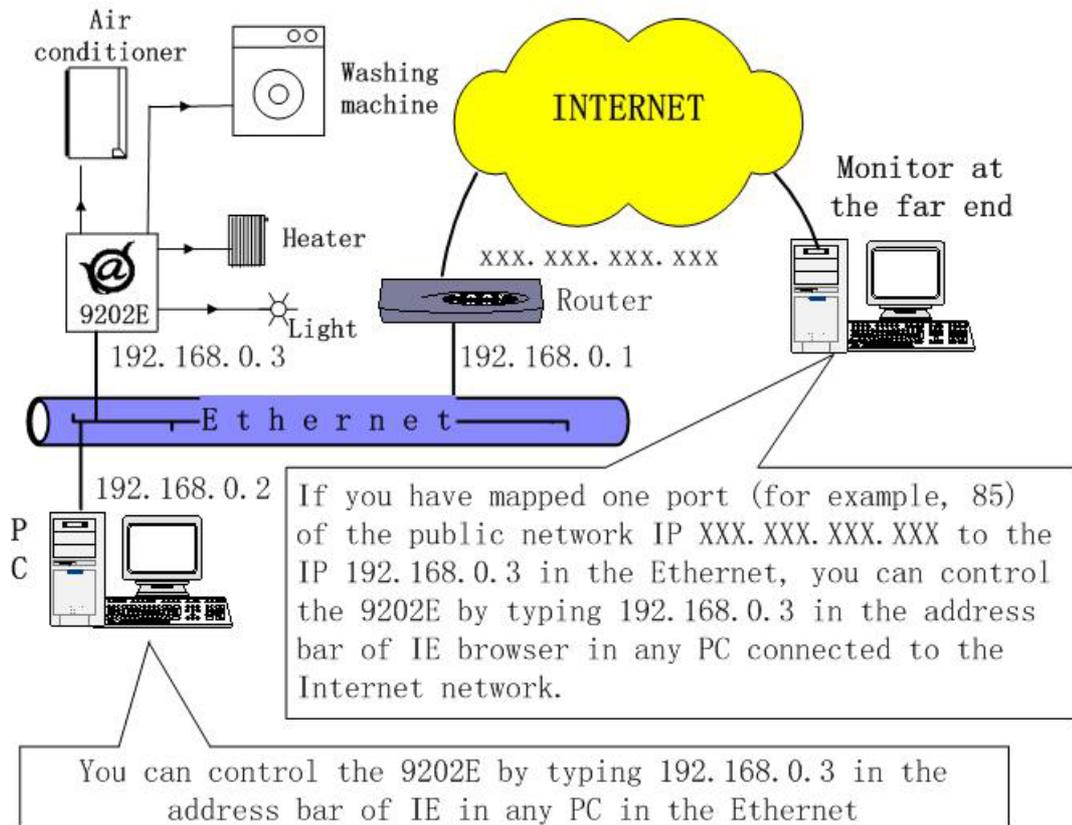
PS : If use DHCP please enable DHCP

Note:

- 1) If the Port is 80 then you can directly update
- 2) If update fail , you can manual reset the device and update again .

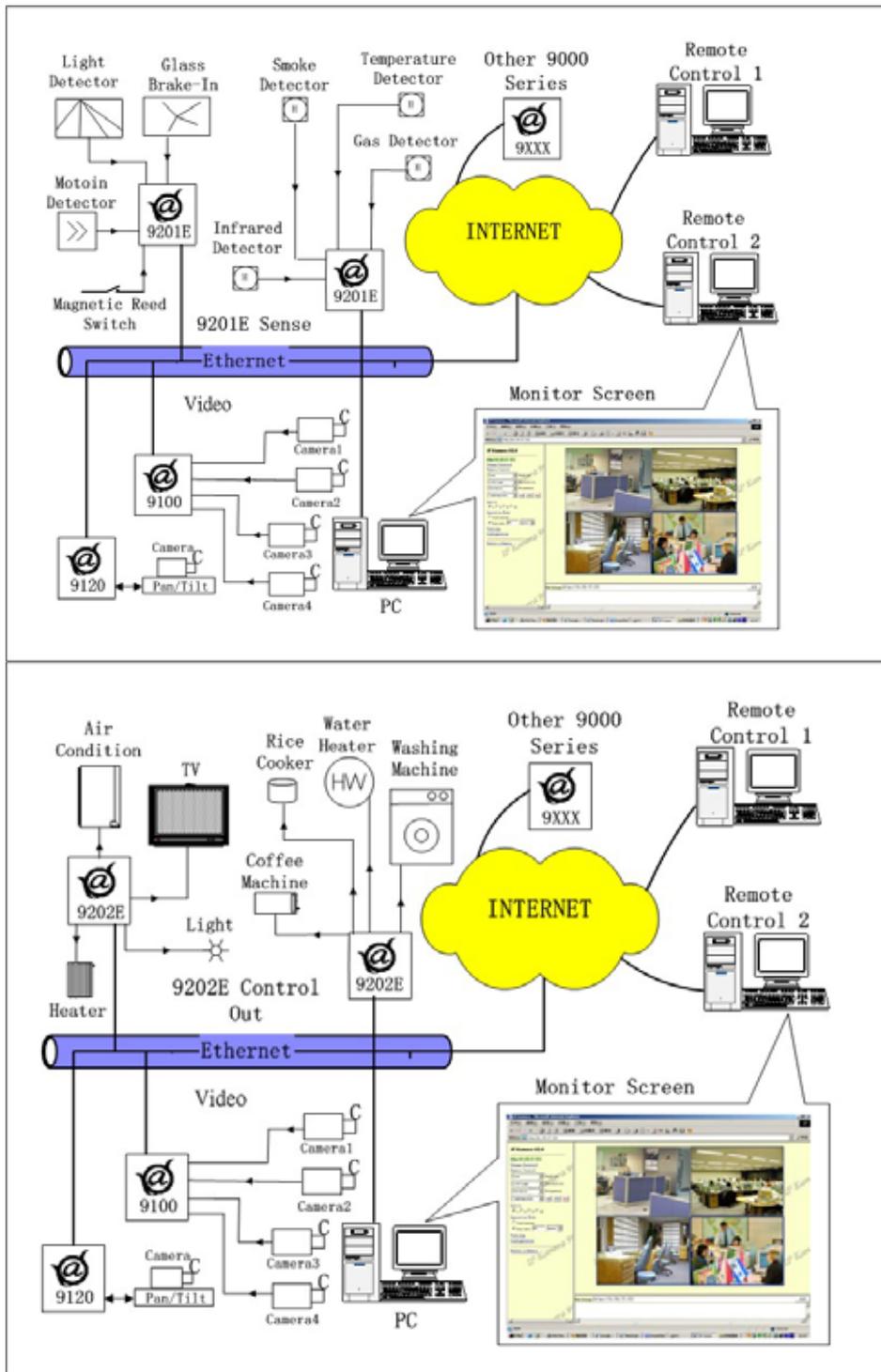
7. Setting the 9212 through the Internet

After you have setting the Ethernet and router, you can access the IP Sensor 9212 from the Internet. It will bring you all kinds of convenience. After assigning them different IP address and mapping to each port of the router, you can visit each equipment through the Internet network.



8. Associated with other IP network product

You can associate the IP Power 9212 with other IP network product of OUR in your home Ethernet, such as IP Kamera 9000 network camera, IP Video 9100 network video server and IP Sensor 9201, IP POWER 9202E to monitor the equipments or sensors installed in the doors or windows. This is an economic solution to achieve the network monitor, detection and control.



9. FAQ

Q1: I forgot the password and can not enter the administration page now, what can I do?

A1: Turn on the power normally, and then click the ipedit.exe program to enter the web page. Type in the username "superuser" and press ok then press the reset button in 9200; it will back to the default settings. Now you can enter the administration page.

Q2: I cannot open the IE web page, why?

A2: Please update your IE or use the up-to-date version of Netscape browser.

Q3: Why the on/off operation can work immediately?

A3: if you operate the IP Sensor 9201 in Ethernet, the operation will work immediately. If you operate it through the Internet, the response speed depends on the situation of the network. Normally the delay is not obvious because the data need to be transported during operating the IP Sensor 9201 is very little.

10. Control and setup by HTTP command

User can control IP Power 9212 through HTTP command , command format as follow:

http://admin:password@xxx.xxx.xxx.xxx/SetIO?para1=*+para2=*+para3=*

Command format part explanation :

username : default setting "admin"

password : default setting "12345678"

XXX.XXX.XXX.XXX : IP address of IP Power 9212

SetIO : output command

para1 - para3 parameter setting

Example 1 : control I/O Output with username and password :

<http://admin:12345678@192.168.0.105/SetIO?p61=1+p62=1+p63=1+p64=1+p65=0+p66=0+p67=0+p68=0>

We use above command to control IP Power 9212 at 192.168.0.105 , username is admin , password is 12345678.

Turn on PORT1 (p61) , PORT2 (p62) , PORT3 (p63) and PORT4 (p64) .

Turn off PORT5 (p65) , PORT6 (p66) , PORT7 (p67) and PORT8 (p68) .

After send out above command , IP Power 9212 will get following message :

<html> P61=1,P62=1,P63=1,P64=1,P65=0,P66=0,P67=0,P68=0 </html>

Notice : pxx must be lower case , the command of SetIO must be same of the style

Example 2 : no need to key in the username and password in command

<http://192.168.0.105/SetIO?p61=1+p62=1+p63=1+p64=1+p65=0+p66=0+p67=0+p68=0>

after type in above command , the following command jump:



after key in the username and password , 9212will return following message :

```
<html> P61=1,P62=1,P63=1,P64=1,P65=0,P66=0,P67=0,P68=0 </html>
```

Example 3 : Read I/O Output of 9212 :

<http://192.168.100.61/GetP6?>

no need to key in the username and password in command ,
after key in the username and password , 9212will return following message :

```
<html> P61=1,P62=1,P63=1,P64=1,P65=0,P66=0,P67=0,P68=0 </html>
```

Output status as follow:

On: PORT1 (p61) , PORT2 (p62) , PORT3 (p63) , PORT4 (p64) .
Off : PORT5 (p65) , PORT6 (p66) , PORT7 (p67) , PORT8 (p68) .

Sample 4 : Read 9212的I/O Input :

<http://192.168.100.61/GetP5?>

no need to key in the username and password in command ,
after key in the username and password , 9212will return following message :

```
<html> P51=1,P52=1,P53=1,P54=1,P55=0,P56=0,P57=0,P58=0 </html>
```

Output status as follow:

* With Input : PORT1 (p51) , PORT2 (p52) , PORT3 (p53) , PORT4 (p54) .
* No Input : PORT5 (p55) , PORT6 (p56) , PORT7 (p57) , PORT8 (p58) .