

# VACRON IP CAM

## Operation Manual

## LEGAL NOTICE

The provided software and hardware authorization agreement is legally binded between The User (for personal or multiple usage) and The Company in bilateral basis, this includes any related hardware components, multimedia, printed and / or online documents and electronic files. Installation, copying or any other method of using products covered in this agreement is established on the notion The User accept terms listed in this agreement. However, if you do not agree these terms, please do not install or use this product. This product is protected under copyright law and Universal Copyright Convention, including other intellectual property laws and agreements. The hardware and software authorization code on agreement certificates automatically grant The User a full operational rights. However, please note the product is only authorized for usage by The User only, not for acts of reselling.

### ❖ COPYRIGHT ❖

The Company owns all titled properties, include but not limited to copyrighted materials, hardware and software products and / or any materials in carbon or electronic copy. The Company reserves the right of ambiguity in authorization rights.

### ❖ LIABILITY WAIVER STATEMENT ❖

The Company is not responsible for any damages, repairs and liabilities caused by situations of force majeure, improper, unlawful and integration related usage. The Company does not direct and indirectly guarantee or prohibit, include but not limited, to any promotability and maintainability of its product and any related material towards any specific purpose under none infringing methods.

### ❖ TERMS AND CONDITIONS ❖

The overall risk may arise from hardware and software performance and usage. This product will notify, if integrated with other branded hardware, can assist The User to execute surveillance monitoring and data analysis. These purposes may be regulated or is in conflict of applicable law include but not limited to data secrecy and privacy reasons. The User has the responsibility



and due diligence to conform and / or comply with applicable law and practice.

#### ❖ LIMITED LIABILITY ❖

This clause indicates the maximum influence allowed under applicable law. Under any circumstances; if FUHO (DBA as VACRON) and its supplier sustained any specific, temporal, indirect or any other forms of losses (including but not limited to profit loss, disrupted business operation, loss of corporate information or any other form of damages) due to the use or discontinued use of products with sufficient or insufficient support, even a prior notice has been issued by either party; FUHO is only responsible for the customer actual purchase price.

#### ❖ OTHER AGREEMENT ❖

- (A) Under applicable legal scope, any reverse engineering, reverse coding or disassembly of any hardware and software components covered within this Agreement is prohibited
- (B) The User can permanently transfer the right of usage as long as the recipient agrees to terms listed within this Agreement.

#### ❖ DISCLOSURE ❖

The Company has the right to terminate the service and this agreement under circumstances of failure to comply with the terms and conditions. The User must destroy any copied material and software under such situation.



## MENU

---

Preface, 【IMPORTANT NOTICES】 .....	1
2. 【E BROWSER LOG IN】 .....	3
2.1 Log in verifications.....	3
2.2 IE Webpage Interface.....	3
3. 【STATUS INFORMATION】 .....	4
3.1 Status Information in Webpage .....	4
3.2 Live View and Function .....	5
3.3 Live View Display and Record Path Setting .....	6
4. 【SETTINGS】 .....	7
4.1 Video Setting .....	7
4.2 Camera Setting .....	9
4.3 Audio Setting .....	11
4.4 Time and Date .....	12
4.5 Network Setting .....	13
4.6 DDNS Setting .....	14
4.7 Network Protocol Setting .....	15
4.8 Alarm Setting .....	17
4.9 Record.....	19
5. 【MAINTENANCE】 .....	20
5.1 User Account .....	20
5.2 SD Card.....	20
5.3 Profile Setting .....	21
5.4 Firmware update .....	21
5.5 Restart.....	22
5.6 Language .....	22

## Preface, 【IMPORTANT NOTICES】





### WARNING

- **PLEASE DO NOT LEAVE OR INSTALL THE DEVICE IN DAMP PLACE, DIRECT SUNLIGHT, HOT OR TIGHTLY SEALED ENVIRONMENT**  
As this may contribute to loss of system performance, power leakage, even damages in extreme cases.
- **PLEASE DO NOT TOUCH POWERLINE, ADAPTER AND WALL PLUG WHEN HANDS ARE WET**  
As this may cause electric shock.
- **PLEASE DO NOT OVERLY TWIST THE CABLES OR PLACE HEAVY ITEMS ON TOP**  
As this may damage the equipment.
- **PLEASE DO NOT USE DAMAGED OR OPEN ENDED POWER LINE**  
As this may cause electric shock or other injuries.
- **PLEASE USE SEPARATE POWER SOURCE, DO NOT SHARE OR EXTEND WALL PLUG WITH OTHER APPLIANCES.**  
As this may cause electric shock, damages or other injuries.
- **PLEASE DO NOT DISASSEMBLE, RE-DESIGN OR MAINTAIN THE DEVICE BY YOUR SELF**  
As this may cause electric shock, damages or other injuries.  
Please contact local supplier for repair and maintenance requirement.
- **PLEASE DO NOT REMOVE DEVICE ENCLOSURE OR INSERT FOREIGN OBJECT**  
As this may cause electric shock, damages or other injuries.
- **PLEASE DO NOT USE UNKNOWN PARTS AND ACCESSORIES OTHER THAN SUPPLIED MATERIALS**  
Please contact local supplier for repair and maintenance requirement.



### CAUTION

- **PLEASE DO NOT PLACE THE DEVICE UNDER RAIN OR OVERLY DAMP PLACES (EXCLUDING OUTDOOR MODELS)**  
As this will decrease the overall performances and cause fatal functional error.
- **PLEASE DO NOT SUBJECT DEVICE UNDER EXCESSIVE VIBRATION AND SHAKEING.**  
As this may damage internal mechanics and ICs

	<b>Important Notice</b>	
Please make sure the voltage is correct!		



For more detailed product spec, please visit our official website at

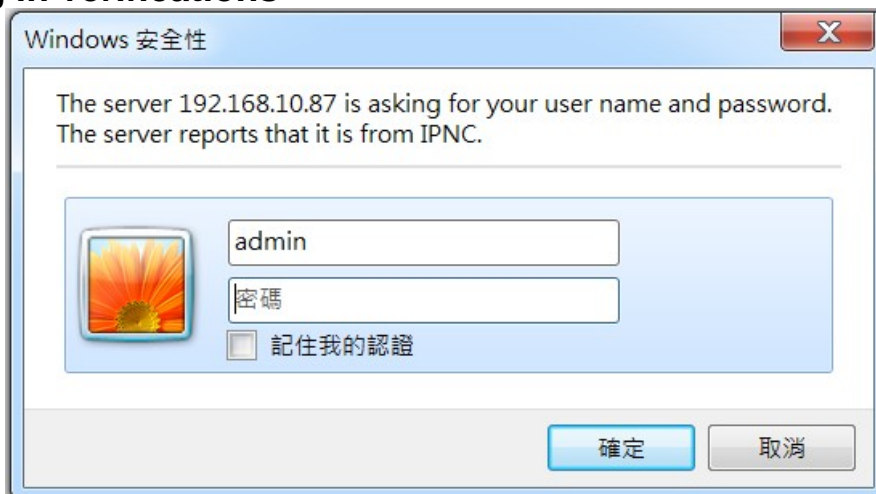
**[http://www.vacron.com/products\\_ipcam.html](http://www.vacron.com/products_ipcam.html)**

## 1. 【SPECIFICATIONS】

Subject	Specifications	
System	Flash : 16MB    RAM : 256MB	
Lens	Auto Iris C/CS mount lens (optional depending on the model), manual varifocal 2.8~12mm F1.4	
Video	H.264: 30 fps at 1280x720 , maximum 30 fps at 1920x1080	
	MPEG4: 30 fps at 1280x720 , maximum 30 fps at 1920x1080	
	MJPEG: 30 fps at 1280x720 , Maximum 30 fps at 1920x1080	
	H.264 、MPEG-4 & MJPEG Multiple Compression Engine Technology (Triple Codec)	
	Support Simultaneous Multiple Streams	
	Support BNC Video Out 、Selectable NTSC/PAL Format	
Image Settings	Adjustable image size, quality, and bit rate	
	Time/Date stamp and text caption overlay.	
	Configurable brightness, contrast, saturation, sharpness, white balance and	
	exposure AGC / AWB / AES / BLC/WDR	
Audio	Format	MPEG-4 AAC audio encoding
		G.711, PCM audio encoding
	Built-in microphone recording distance up to 5 meters, mute and volume function available.	
	Support Audio line-in for external microphone (optional depending on the model)	
Networking	Interface	10/100 Mbps Ethernet, RJ-45
	Supported Protocol	IPv4,TCP/IP, DHCP, HTTP, FTP, SMTP, RTSP,SNTP,DNS
	Supported Browser	Microsoft Internet Explorer 6.0 or above
		Safari, Chrome, and Firefox
Alarm and Event Management	Motion Detection	
	Digital trigger input / output	
	Audio alarm output (need line-out)	
	E-mail event notification using SMTP or FTP	
User Account	Maximum 4 clients online monitoring simultaneously	
	Multi-level user access control with password protection	
Local Record	Micro SD/SDHC card slot : Stores snapshots and video clips	
Maintenance	Support online firmware upgrade	
I/O Interface	RJ-45 Ethernet x1,DC Jack x 1, SD Card slot x1, Auto IRIS, RS-485, line/out, Digital I/O (2 in, 2 out), external reset	
Power	DC12V or PoE IEEE802.3af Class 0 (optional)	
Operating Environment Temperature	0~45°C	

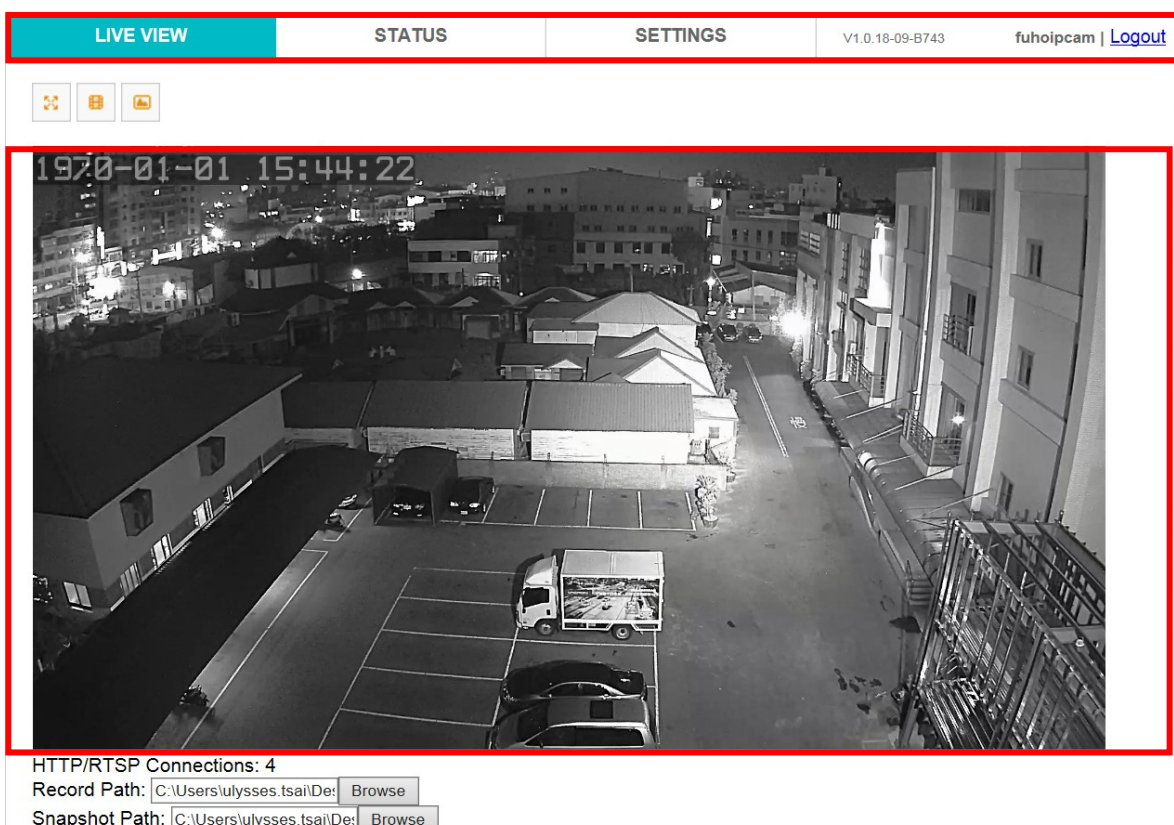
## 2. 【E BROWSER LOG IN】

### 2.1 Log in verifications



After successfully connected with IPC (IP camera) via IP address, you will be prompted with log in verifications. Please type in your username and password to access the system and setting.

### 2.2 IE Webpage Interface

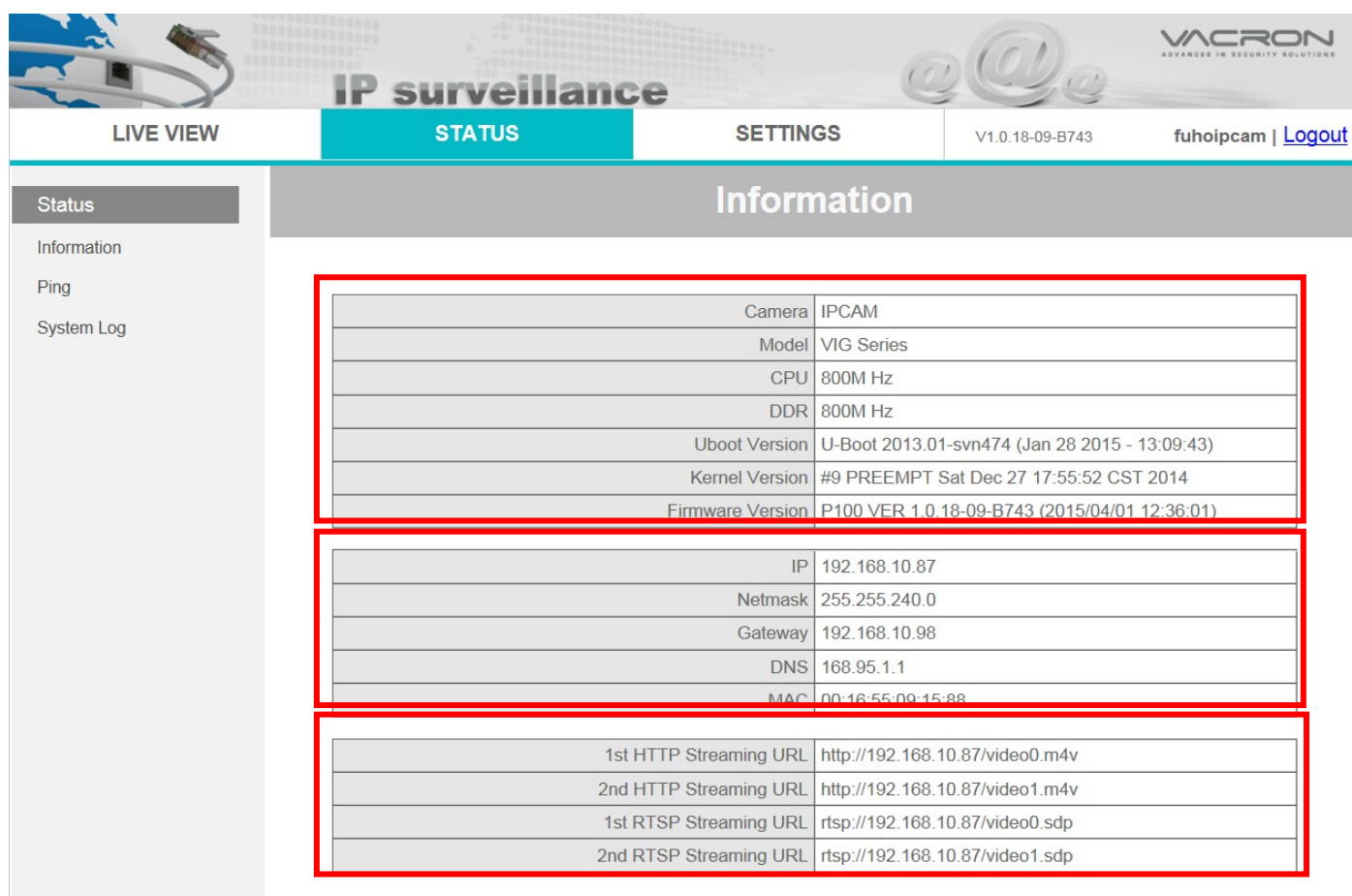


The logged in web interface displays basic hardware and software information and / or option separated into 2 parts; a dropdown table of function list on the top and basic option and information on the bottom. (demonstrated with administrator log in)



### 3. 【STATUS INFORMATION】

#### 3.1 Status Information in Webpage



**IP surveillance**

**STATUS**

V1.0.18-09-B743 fuhoipcam | [Logout](#)

**Information**

Camera	IPCAM
Model	VIG Series
CPU	800M Hz
DDR	800M Hz
Uboot Version	U-Boot 2013.01-svn474 (Jan 28 2015 - 13:09:43)
Kernel Version	#9 PREEMPT Sat Dec 27 17:55:52 CST 2014
Firmware Version	P100 VER 1.0.18-09-B743 (2015/04/01 12:36:01)

IP	192.168.10.87
Netmask	255.255.240.0
Gateway	192.168.10.98
DNS	168.95.1.1
MAC	00:16:55:09:15:88

1st HTTP Streaming URL	http://192.168.10.87/video0.m4v
2nd HTTP Streaming URL	http://192.168.10.87/video1.m4v
1st RTSP Streaming URL	rtsp://192.168.10.87/video0.sdp
2nd RTSP Streaming URL	rtsp://192.168.10.87/video1.sdp

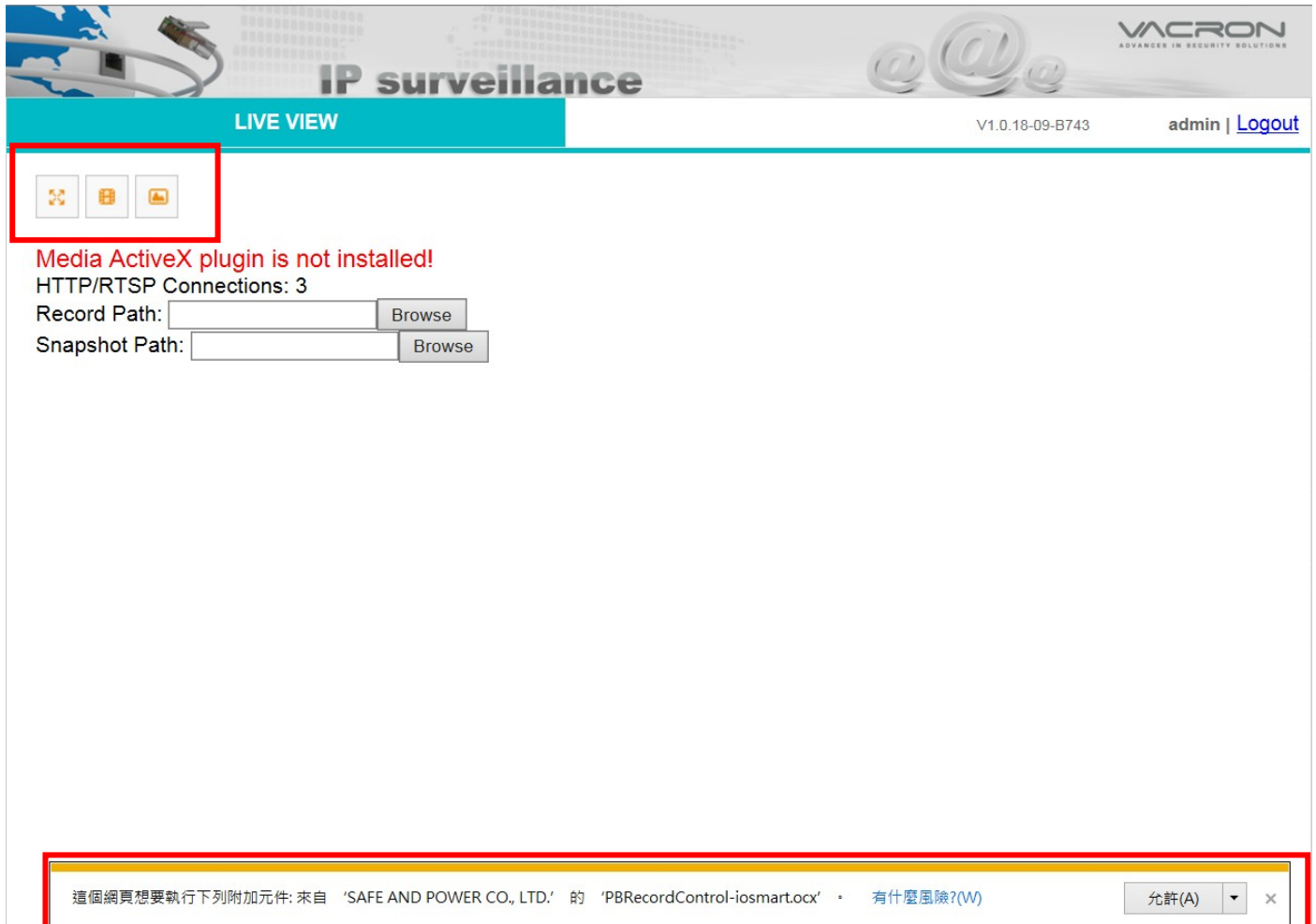
1. The information area separate into three categories; firmware information on the top, IP address setting in middle, and TCP/IP protocol at the third.
2. Firmware include three main information; Uboot Version (boot-up firmware), Kernel Version (physical layer firmware) and Firmware Version.
3. IP address setting includes current IP address, subnet mask, gateway and device MAC number.
4. TCP/IP information; is where one can find IPC video/audio streaming protocols, video stream can be viewed on internet enabled media players (such as VLC) via streaming protocol. The hyperlink at the bottom connects to VACRON homepage, all product and update information can be viewed there. The IPC must be connected to WAN in order to visit VACRON.
5. System Log on left side screen provides system log, which contains vital information for engineer to diagnostic the system.








### 3.2 Live View and Function

1. New installers may be prompted to download OCX if the computer used has yet to install OCX. Please proceed to download OCX in order to view live streaming.
2. When above warning appears, please bypass IE security setting by manually download (allow) Active X, or it might be blocked by Windows IE.



3. On the top-left corner is  (Full screen)  (Record)  (Snapshot) for quick function. The default record is at C drive, this can be changed to suit your requirement. The options at the bottom are for direct record or snapshot on to computer, record path is definable.



### 3.3 Live View Display and Record Path Setting

**LIVE VIEW**

STATUS

SETTINGS

V1.0.18-09-B743

fuhoipcam | [Logout](#)



HTTP/RTSP Connections: 5

Record Path:

Snapshot Path:


1. After ActiveX is installed correctly, LIVE view should appear in the screen.
2. On bottom of screen shows current number of connection over HTTP/RTSP.
3. Record and snapshot on to computer. Paths are definable.



## 4. 【SETTINGS】

### 4.1 Video Setting

You can change all video streaming related elements in Video Setting page, this page is separated into two parts as shown below. The upper half is streaming setting and bottom half is camera additional information. All function is explained as below;

Video	
Camera	IPCAM
	
<b>Stream 1</b>	
Codec	H264 ▾
Resolution	1920 X 1080 ▾
Framerate	25 ▾ fps
GOP [2 - 40]	25
Rate Control	CBR ▾
Bit Rate	4000 Kbps
<b>Stream 2</b>	
Codec	H264 ▾
Resolution	640 X 480 ▾
Framerate	10 ▾ fps
GOP [2 - 40]	10
Rate Control	CBR ▾
Bit Rate	512 Kbps
<b>Overlay Setting</b>	
Date	<input checked="" type="checkbox"/>
Text	<input type="checkbox"/> Text <b>Additional Information</b>
Mirror	OFF ▾
<input type="button" value="Accept"/> <input type="button" value="Reset"/> <input type="button" value="Default"/>	


1. Camera: Change the name displayed in IP CAM Searcher software, you can assign a more convenient and memorable name for your IPC.



2. Stream Type: This setting allow user to adjust streaming standard, you can choose between Stream 1 and Stream 2.
3. Codec : This setting allow user to choose between the most suitable codec standard, the default combination is best for optimistic and stable performance of IPC and viewing device. Choose between stream H.264 and MJPEG.
4. Resolution: You can further define streamed resolution combination to suit your desired application, the choice include QVGA (320x240) 、 CIF (352x240) 、 VGA (640x480) 、 D1(720 x486) 、 720P(1280 x720) 、 SXGA(1280 x1024) 、 1080P(1920 x1080) 、 2MP(1600x1200) 、 3MP(2048x1536) ` 5MP(2592x1944)
5. Frame Rate: This setting adjusts the P and I frame IPC streamed or captured in total within 1 second, the standard is FPS (frames per second).
6. Bit Rate : This setting adjust the combined P and I frame file size / second, the calculating standard is Kbps (kilo bit per second).
7. Rate Control : This option adjust recording storage space, choose between VBR (variable bit rate), CBR (constant bit rate). Variable bit rate can intelligently reduce file size if frames captured similar, this may help reduce storage space required.
8. Maximum Bit Rate: Sets the maximum file size streamed by IPC
9. GOP: This setting manually adjust the number of I frames present in a frame. For example, the minimum setting of 8 produce 3 I frame in a 23 FPS / second stream.
10. Overlay: The time, date, text information can be display on screen, and become part of the information recorded on video. This setting give user clear understanding of time, text and camera identity during playback.
11. Mirror: Negate the upside down video display when IPC is installed upside down.
12. Local Display Video: IPC can stream analogue video stream for installation purposes or if traditional analogue DVR is used as storage device, choose between NTSC and PAL.

## 4.2 Camera Setting

### Camera

Camera		IPCAM	
<b>Lighting Condition</b>			
Brightness [0 - 255]	<input type="text" value="128"/>		
Contrast [0 - 255]	<input type="text" value="128"/>		
Saturation [0 - 255]	<input type="text" value="128"/>		
Sharpness [0 - 255]	<input type="text" value="128"/>		
Hue [0 - 255]	<input type="text" value="128"/>		
Back Light Compensation	<input checked="" type="radio"/> OFF <input type="radio"/> ON		
Enable WDR	<input type="checkbox"/>		
WDR Level [1 - 10]	<input type="text" value="5"/>	<b>Light Elements</b>	
Flicker Control	<input type="text" value="60 Hz"/>		
Color Mode	<input type="text" value="Auto"/>		
<b>Exposure Settings</b>			
Dynamic <input checked="" type="radio"/>	<b>Day</b>		
	Min. Shutter	<input type="text" value="1/1000000"/> sec	
	Max. Shutter	<input type="text" value="1/30"/> sec	
	Max. Gain	<input type="text" value="125"/> dB	
	<b>Night</b>		
	Min. Shutter	<input type="text" value="1/1000000"/> sec	
	Max. Shutter	<input type="text" value="1/30"/> sec	
	Max. Gain	<input type="text" value="100"/> dB	
<b>DNR</b>			
DNR		<input type="radio"/> OFF <input checked="" type="radio"/> ON	
<b>PTZ</b>			
Protocol		<input type="text" value="OFF"/>	
Device ID		<input type="text" value="1"/>	
Baud Rate		<input type="text" value="9600"/>	
Speed		<input type="text" value="16"/>	
Min. Move Time		<input type="text" value="0"/> sec	
<b>Additional Function</b>			
<b>IR Setting</b>			
IR Cut Mode	Light Sensor Detect <input checked="" type="radio"/>		
	Schedule Mode <input type="radio"/>	Day Time	<input type="text" value="6"/> : <input type="text" value="0"/>
		Night Time	<input type="text" value="18"/> : <input type="text" value="0"/>
IR Cut Confirm	<input type="checkbox"/>		
<b>Privacy Mask</b>			
Enable	<input type="checkbox"/>		





Camera setting page adjust optic and lighting elements, it is divided into two parts as above picture. Each option is explained as below.

1. Light sensitivity: Brightness, contrast, saturation and sharpness ranging from 0 to 255, the default setting is 128. You can adjust the color on screen in this field.
2. Back Light Compensation: Back light compensate adjust for automatic compensation of captured object under back lighted environment, this will clarify the dark areas overshadowed by light. Max, medium and min options available.
3. WDR: Wide Dynamic Range compensate and negate the over-shadowy effect, this setting will make the lightness and color in the whole frame more balanced and even.
4. Flicker Control: This setting balance out the flicker caused by light bulb and fluorescent light of different frequency (50Hz and 60Hz), so the viewing device does not appear light bar or wave on screen.
5. Color Mode: Set to auto by default to automatically control IR CUT for transition between day and night time. During day time IR CUT is set to blue glass to filter IR light and will turn off IR LED automatically. The IR CUT is set to IR light and turn IR LED lighting.
6. Electronic Shutter: the longer the shutter speed, the greater the amount of light would get into the camera. On the night setting, the larger the denominator it is, the lesser the ghosting effect it is.
7. DNR (digital Noise Reduction): The most common factor that cause noise in the image is low-light. It is used during low light environments for video security surveillance applications and the noise suppression must be used for any low-light environments.
8. PTZ (for certain models only): short for Pan/Tilt/Zoom, able to move (top, down, left, and right) as well as zoom capability and focus.
9. IR settings: select the following IR mask automatic mode  
Light Sensor Detect  
Using an external sensor to detect the brightness as the basis for day or night mode.  
Schedule Mode  
For a specified period of time, day or night mode automatically switches.  
IR Cut Confirm  
IR CAM triggers self test mechanism every five minutes apart for three times consecutively.
10. Privacy Mask: Blocking a specific area on the screen for the protection of individual privacy.



## 4.3 Audio Setting

Audio	
Enable Audio	<input type="checkbox"/>
Audio Mode	Only Mic ▼
Audio Input	
Input Gain [0 - 60]	0
Encoding	PCM ▼
<b>Audio Control Option</b>	
<input type="button" value="Accept"/> <input type="button" value="Reset"/> <input type="button" value="Default"/>	

1. Enable Audio: Disable or enable sound recording and microphone. The drop down list activated after audio recording is enabled.
2. Microphone Volume: certain models equip with built-in microphone. Select microphone to activate audio input. If not, use external line-in to receive audio.
3. Input Gain (input sensitivity): lower number would generate lower noise.
4. Audio decoding formats supported are PCM, G711U and G711A, depending on chipset .





## 4.4 Time and Date

### Date Time

	Year	Month	Day	Hour	Minute	Second
PC Time	2015	4	9	19	50	51
Device Time	2015	4	9	19	50	49
Manual <input checked="" type="radio"/>	PC Time					
Synchroize with Time Servers <input type="radio"/>	SNTP Server					
	ntp.ucsd.edu					
	Time Zone					
	+ 8					

**Time Setting**

Auto Reboot	<input type="checkbox"/>
Reboot Time	0 : 0 : 0
Random Offset	600

**Boot up Setting**

Accept

Reset

Default

1. Time Setting: IPC time format can be set manually, sync with PC or SNTP server time setting. SNTP server time setting requires user connecting to a SNTP server or set a local computer as time server.
2. Boot up Setting: Provides auto reboot setting. The setting will flush out accumulated packages in RAM (similar to smartphones and PCs), this will aid a stable performance of IPC. The Random Offset defines a random plus or minus time frame adding to the IPC reboot time.



## 4.5 Network Setting

### Network

IP		
DHCP <input type="radio"/>	Full Hostname	<input type="text"/>
	MTU	<input type="text" value="1500"/>
Static IP <input checked="" type="radio"/>	IP address	<input type="text" value="192.168.10.87"/>
	Subnet mask	<input type="text" value="255.255.240.0"/>
	Default Gateway IP	<input type="text" value="192.168.10.98"/>
	MTU	<input type="text" value="1500"/>
PPPoE <input type="radio"/>	PPPoE Account	<input type="text"/>
	PPPoE Password	<input type="password" value="....."/>
	Confirm Password	<input type="password" value="....."/>
	MTU	<input type="text" value="1492"/>
DNS Assignment	<input type="radio"/> Auto <input checked="" type="radio"/> Manual	
Primary DNS Server	<input type="text" value="168.95.1.1"/>	Secondary DNS Server <input type="text"/>

**IP Setting**

MAC		
Factory Default MAC Address	<input type="text" value="001655091588"/>	<input type="button" value="Restore"/>
Current MAC Address	<input type="text"/>	

**MAC Setting**

1. IP Network Setting: This page let user to assign network identities (LAN) to IPC via IE browser, so user can manage the allocated ports and IP address (multiple LAN) on their network switches.
2. PPPOE: This function is fixed by the user's IP ADSL secret accounts directly connected to an external network to use, as users need to connect to the external time, use this feature to quickly reach the requirements.
3. MAC Address: MAC address is used for the identification of manufacturer product information (model name and manufactured time). If worked in conjunction with IP CAM Searcher, our software can distinguish IPC by MAC address even if they are assigned the same IP address. Our IPC MAC address can be changed tem.



## 4.6 DDNS Setting

### DDNS

Register to DDNS	<input type="checkbox"/>
Server Address	DynDNS ▼ members.dyndns.org
Full Hostname	dyndns.org
Login ID	
Password	••••••••
Confirm Password	••••••••
Behind NAT	<input checked="" type="checkbox"/>
Custom	<input type="checkbox"/>

Accept

Reset

Default

1. DDNS Setting: DDNS is a way of URL redirection, user can register for DDNS service and obtain a specific server address in characters (as opposed to number), the visitors from WAN can search for the server name on the web, they will then be redirected to the registered IP address.



## 4.7 Network Protocol Setting

### Network Protocol

Max. Stream Connection [0 - 16]	<input type="text" value="6"/>
---------------------------------	--------------------------------

#### HTTP

HTTP Port [1 - 65535]	<input type="text" value="80"/>
Sync With NVR	<input type="text" value="Disable"/> Only One IP <input type="text"/>
ONVIF Discoverable	<input type="checkbox"/>
Max. HTTP Connection [0 - 12]	<input type="text" value="6"/>

#### RTSP

RTSP Port [1 - 65535]	<input type="text" value="554"/>
Video Packet Size [1400 - 8192]	<input type="text" value="8192"/>
Check RTSP Keep Alive	<input type="checkbox"/>
RTSP Authentication	<input type="checkbox"/>
Max. RTSP Connection [0 - 12]	<input type="text" value="4"/>

#### FTP

FTP Server	<input type="text"/>	Port	<input type="text" value="21"/>
User Name	<input type="text"/>		
Password	<input type="password" value="....."/>	Confirm Password	<input type="password" value="....."/>
File Upload	<input type="text" value="default_folder"/>		
Upload Interval [0=Disable, 1 - 3600 sec]	<input type="text" value="0"/>		

#### SMTP

SMTP Server	<input type="text"/>	Port	<input type="text" value="25"/>
User Name	<input type="text"/>		
Password	<input type="password" value="....."/>	Confirm Password	<input type="password" value="....."/>
Server Require Authentication	<input type="checkbox"/>		
Email Sender	<input type="text"/>	Email Receiver	<input type="text"/>

Accept

Reset

Default



1. HTTP Setting: HTTP setting adjust port number corresponding to IPC (video streaming), this allows user to use multiple IPC under the same IP address. Syncing with NVR allows user to accept command from NVR. ONVIF setting allow IPC communications under ONVIF standard.
2. RTSP Setting: This allow user to manually change RTSP port number and video stream packet size. Our default RTSP port is 554 under ONVIF protocol.
3. FTP Setting: File Transfer Protocol is a server-client structured protocol for backup video file on server automatically. A FTP server must be established or enabled prior to streaming (upload) video on to FTP server.
4. SMTP Setting: Simple Mail Transfer Protocol is a standard for web based email transfer. With effective settings, IPC can send alarm triggered push mail or video clip directly to a designated email address for notification purposes.



## 4.8 Alarm Setting

### Alarm

Motion Detection	<input checked="" type="checkbox"/>		
Ethernet Lost	<input checked="" type="checkbox"/>		
External Triggers	<input checked="" type="checkbox"/>		
Input	OFF ▾	Trigger Voltage	Low ▾
Input	OFF ▾	Trigger Voltage	Low ▾
Output	OFF ▾	Trigger Voltage	Low ▾
Upload Via FTP	<input type="checkbox"/>		
Upload Via SMTP	<input type="checkbox"/>		
Save Into SD	<input type="checkbox"/>		

#### Motion Detection



Select All Clear All

Sensitivity ☒ MEDIUM ▾

Customized Threshold ☐ 50

Accept

Reset

Default



1. **Enable Alarm:** This setting allows you to enable or disable all alarm setting. You need to enable alarm prior to setting them. The detecting area is divided into 144 blocks. Click on a block to activate/deactivate it. Red blocks are activated area. This function allows user to easily search data and hard drive space saving.
2. **Alarm Duration:** When alarm is enabled and area of interest marked, use can differentiate the duration of buzz alarm depending on area of interest. This can be sync with NVR for simultaneous alarm feedbacks for effective warning notification.
3. **Facial Detection:** This function is present in some model of IPCs. When this function is enabled, a green square will mark out face of human within certain distance serving as notification purposes.
4. **Ethernet Loss:** This function works with corresponding NVR or system, select FTP transfer and push mail in corresponding device to alert the network loss.
5. **Audio Alarm:** Various IPC models feature a build in buzzer or digital IO for external buzzer. This allows an audible alarm notification when alarm is triggered.
6. **External Trigger:** This feature is present in some IPC models. When this is enable, the user can connect digital IO to any device with digital IO (such as access control, burglar and smoke alarm, etc...). This allows a non visual motion and external device (up to 50 meter) triggered alarm.
7. **Upload via FTP:** This function works with FTP server setting (in the Network Setting menu) by uploading video clips to an assigned FTP server.
8. **Upload via SMTP:** This function works with SMTP setting (in the Network Setting menu) by uploading video or message to email address.
9. **Save into SD card:** In models with SD card slot, user can store video clip of alarm triggered, external or motion, event on to SD card. This allow user to backup footage locally and automatically, the user can also view these footages via IE browser.





## 4.9 Record

### 錄影

#	啟用	排程	從	到
1	<input type="checkbox"/>	每日 ▼	0 ▼ : 0 ▼	0 ▼ : 0 ▼
2	<input type="checkbox"/>	每日 ▼	0 ▼ : 0 ▼	0 ▼ : 0 ▼
3	<input type="checkbox"/>	每日 ▼	0 ▼ : 0 ▼	0 ▼ : 0 ▼
4	<input type="checkbox"/>	每日 ▼	0 ▼ : 0 ▼	0 ▼ : 0 ▼
5	<input type="checkbox"/>	每日 ▼	0 ▼ : 0 ▼	0 ▼ : 0 ▼
6	<input type="checkbox"/>	每日 ▼	0 ▼ : 0 ▼	0 ▼ : 0 ▼
7	<input type="checkbox"/>	每日 ▼	0 ▼ : 0 ▼	0 ▼ : 0 ▼
8	<input type="checkbox"/>	每日 ▼	0 ▼ : 0 ▼	0 ▼ : 0 ▼

確定

還原

預設值

1. Schedule Record: This function is available in models with SD slot. A total of 8 schedule profiles can be set to loop record video clip to SD card on specific day and time. Each video clip is store in 15 minutes length or 600 MB size in AVI format.



## 5. 【MAINTENANCE】

### 5.1 User Account

#### User Account

Admin User Name	<input type="text" value="fuhoipcam"/>		
Admin Password	<input type="password" value="....."/>	Confirm Password	<input type="password" value="....."/>
Operator User Name	<input type="text" value="user"/>		
Operator Password	<input type="password" value="....."/>	Confirm Password	<input type="password" value="....."/>
Viewer User Name	<input type="text" value="admin"/>		
Viewer Password	<input type="password" value="....."/>	Confirm Password	<input type="password" value="....."/>

Accept

Reset

Default

1. User Account: User account is separated into 3 categories with variant degree of authority. Admin being the highest authorized user with access to all setting and operation in IE browser, the second is operator with only "user account setting" unavailable. The lowest is viewer with authority only to live view.

### 5.2 SD Card

#### SD Card

Filelist of Memory Card				
Filename	Date	Time	Size	Delete
0 file and 80.57 MBytes free				<div>Delete File Format</div>

1. SD Card: If SD card is present in SD card slot, the user can view or delete the recorded footage here. The user can also backup recorded footage on to other device or platform.



## 5.3 Profile Setting

### Profile

Backup Configurations	
Configuration File	<input type="button" value="Backup"/> <b>Profile.bin File</b>
Restore Configurations	
<input checked="" type="radio"/> Upload Configuration File	<input type="text"/> <input type="button" value="瀏覽..."/>
<input type="radio"/> Restore Default Configurations	
<input type="checkbox"/> Keep Network Settings	<input type="button" value="Restore"/>

1. Backup Configurations: This function allow user to export their preferred IPC setting profile into "profile.bin" file format. You can use the backup profile to restore IPC or configure multiple IPCs with the same setting quickly. Configuration files can also used to troubleshoot by creating identical setting under different controlled environments.
2. Restore Configurations: This function allow user to restore their profile setting after firmware update. Restore custom or default configurations can help users to avoid potential IPC setting conflicts.

## 5.4 Firmware update

### Firmware Update

Please use GM8139\_OV5658\_P100\_XXXXX.bin

Upload Firmware File	<input type="text"/> <input type="button" value="瀏覽..."/>	<input type="button" value="Update"/>
----------------------	---	---------------------------------------

1. Firmware Update: Users can update their IPC firmware via IE browser. Please visit VACRON homepage for firmware support and version information.



## 5.5 Restart

### Restart

<input type="checkbox"/> Restart	System Restart.
----------------------------------	-----------------

1. Restart: This function allows IPC to restart. After you set IPC to restart, please wait for 50 seconds while IPC is rebooting.

## 5.6 Language

### Language

Web UI Language	English ▼
-----------------	-----------

1. Language: Our IPC has 11 languages (Traditional Chinese, Simplified Chinese, French, Japanese, Spanish, Indian, Russian, Portuguese, Italian, Korean, Indonesian, and English) to choose by default. Any language can be added according to requirements.



---

For More Product Information  
Please Visit VACRON at  
<http://www.vacron.com>

Made in Taiwan

---