IP Camera IE Browser User Manual (for Windows XP/2003/Win7/Vista)

Document edition:V1.1

The manual for: V1.6(8).0.119 and above editions

Editions suit for IPC: Box IP camera, Infrared box IP camera, Dome IP camera, Speed dome IP camera

Preface

Thank you for using our IP camera products. This series of products are all-in-one IP cameras designed for network video surveillance, including box IP camera, infrared box IP camera, dome IP camera, speed dome IP camera, etc. The products adopt high performance and powerful single SOC chip media processor to integrate audio and video capture, compression and transmission. Standard H.264 Baseline and Main Profile coding algorithm ensures clearer and smoother video transmission effect. Built-in Web Server allows users to easily perform real-time monitoring and remote control over front-end cameras via IE browser.

This series of IP cameras is suitable for small and medium-sized enterprises, families, and other environments that require remote network video transmission and monitoring. It is easy to install and operate.

Statement:

- Contents in this manual may be different from the edition that you are using. Should any
 unsolved problem occur given that the product is used according to this manual, please
 contact our technical support department or your product suppliers.
- The content of this manual may be updated at irregular intervals without prior notice.

Readership:

This manual is suitable for engineers as follow:

- System planning person
- Support and maintenance person
- Administrator
- User

Notes:

- "IP Camera" mentioned in this manual refers to network camera, including box IP camera, dome IP camera, infrared box IP camera, speed dome IP camera,etc.
- Click: Press the left mouse button once.
- Double-click: Press the left mouse button twice.
- "[]":Window name, menu name and data sheet.

Modify record:

Recording the corresponding update, the latest document include all of the content in previous editions.

Modify date	Edition	Explanation

Table of Contents

1 Download and install ActiveX	
2 Login	
3 Live Preview	
4 Record Playback	
5 Set System Parameters	
5.1 Local config	
5.2 Audio Setting	
5.3Video Settings	
5.3.1 Text Overlay	
5.3.2 Video Coding	
5.3.3 Video Mask	
5.3.4 Video Parameter	
5.3.5 Picture Parameter	
5.4 Network Settings	
5.4.1 Basic Setting	
5.4.2 LAN Setting	
5.4.3 Wireless Setting	
5.4.4 PPPOE Setting	
5.4.5UPNP setting	
5.4.6 Email setting	
5.4.7 FTP setting	
5.4.8 DDNS setting	
5.4.9 VPN setting	
5.4.10 RTSP setting	
5.4.11 Public IP noticed by email	
5.4.12 Connect setting	
5.5 Storage Settings	
5.5.1 Device Setting	
5.5.2 Record Setting	
5.5.3 Snap Setting	
5.6 Alarm Settings	
5.6.1 Motion detection	
5.6.2 Sensor Detection	
5.6.3 Network Detection	
5.7 COM Setting	
5.8 System Setting	
5.8.1 System Info	
5.8.2 System Time	
5.8.3 User Manage	
5.8.4 Upgrade	
5.8.5 PTZ Upgrade	
5.8.6 Restore	
5.8.7 Reboot	
5.8.8 System log	
Appendix 1 Network Interface of IP Camera	
Appendix 2 Default Network Parameters	
Appendix 3 FAQs	

1 Download and install ActiveX

You need to install ActiveX Control when you visit IP camera for the first time through

IE browser.

ActiveX installing method:

Download installation

Input the IP address of IP camera in Internet Explore to enter into login page(see

Figure 1),

Click [File] to download the ActiveX:

User Name	admin
Password	
	Login Cancel
Tip please o	download and install the ActiveX. File



You can download the ActiveX manually or just input the password, then download the file as system prompt.(see Figure 2)

Internet Explorer blocked this website from installing an ActiveX control.	What's the risk?	Install	×
	Figure 2		
File download dialogue box pops up, c	lick [Run] or [Save] to download ActiveX, a	fter	

download it , double-click the downloaded file "WebCMS.exe" and choose the language, then install it.

NOTE: Abnormal phenomenon when install ActiveX and the solutions:

1: when install the ActiveX, it pops up the window as Figure 3:



Figure 3

please change the security level of IE, IE tools-> Internet options->Security->Custom level as

Figure 4, and change the parameters as Figure 5, Figure 6:

Internet Options
General Security Privacy Content Connections Programs Advanced
Select a zone to view or change security settings.
Internet Local intranet Trusted sites Restricted sites
Internet
This zone is for Internet websites, except those listed in trusted and restricted zones.
Security level for this zone
Allowed levels for this zone: Medium to High
Medium-high Appropriate for most websites Prompts before downloading potentially unsafe content Unsigned ActiveX controls will not be downloaded
Enable Protected Mode (requires restarting Internet Explorer)
Custom level Default level
Reset all zones to default level
OK Cancel Apply

Figure 4

2	.NET Framework	*
-	.NET Framework-reliant components	Ξ
	ActiveX controls and plug-ins	-
	Allow ActiveX Filtering	
	Disable	
	Enable	
	Allow previously unused ActiveX controls to run without prom	
	Disable	
	Enable	
	🜒 Allow Scriptlets	
	Oisable	
	Enable	
	Prompt	
	Download signed ActiveX controls	
	Disable	
	Enable (not secure)	
	Prompt (recommended)	
	Download unsigned ActiveX controls	
	Disable (recommended)	
	Enable (not secure)	
	Prompt	
	— • —	



Miscellaneous	*
Access data sources across domains	
Allow dragging of content between domains into separate wi	_
Allow dragging of content between domains into the same wi	=
Allow META REFRESH	1
Allow scripting of Microsoft web browser control	
Allow script-initiated windows without size or position constra	
Allow webpages to use restricted protocols for active conten	
Allow websites to open windows without address or status b	
Display mixed content	
Don't prompt for client certificate selection when only one ce	
Drag and drop or copy and paste files	
Enable MIME Sniffing	
Include local directory path when uploading files to a server	
Include local directory path when uploading files to a server	
Disable	
Enable	

Figure 6

2 Login

Reopen Internet Explorer after ActiveX installation completes, input IP address of the IP camera to turn to login page, enter username and password (default setting is

admin/admin), click login to enter into main interface(see Figure 7):

Passwo	ord:
	Login Cancel
Tip:please	e download and install the ActiveX. File

Figure 7

3 Live Preview

See Figure 8 for the interface of "Live Preview":

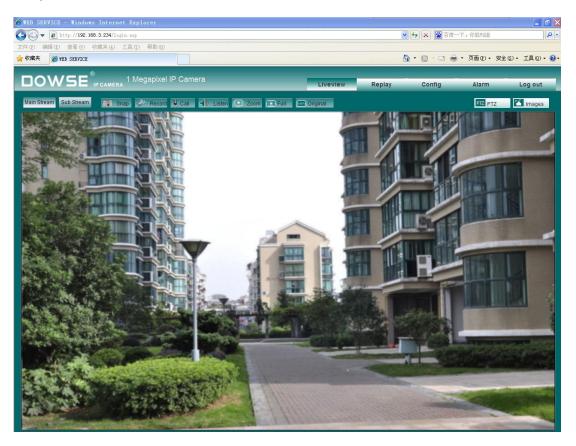


Figure 8

In the Live view interface, users can do operations like Snapping, Recording,

Playback, Call, Listen, Clear Alarm, Log Search, Local Zoom of Image, Full-screen Viewing, PTZ and Lens Control.

[Main Stream] Call the main stream of camera to get the best quality.

[Sub Stream] Call the sub stream of camera, with low resolution, suit for bad network or Internet. [Snap]: click "Snap", snap the current image and save it in .JPG format automatically to the storage directory of snapped images.

[Record]: Manual image recording, automatically record current images and save them

in .264 format to the storage directory of recorded images after the recording function turned on.

Displayed status after recording starts: Second

[Call]: After turn on the audio talkback switch, the talkback between PC and IP camera can be performed given that audio talkback device is installed to the IP camera. The

displayed status after audio turns on:

[Listen]: After switch on the monitoring switch, PC can monitor the sound at the device

end. The displayed status after monitoring starts :

[Zoom]: This feature allows the manual drag and drop of video display area to realize partial zoom in.

[Full]: Display images in full-screen, right click or click Esc to exit full screen mode.

[Original]:Click "Original" to get the real W:H ratio of image, avoid image distortion when stretch to the size of screen.

[PTZ]: Allows four-directional rotation, automatic adjustment of PTZ rotation speed.

[Image]: Click Image, allow users to adjust Brightness, Contrast, Hue and Saturation of image.

4 Replay

Click Replay enter into video playback page (see Figure 9).

IP Camera User's Manual

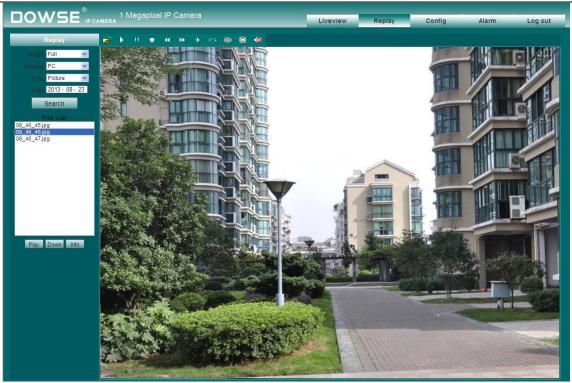


Figure 9

Users can search for recorded image files or snapped pictures in local PC or storage device according to date.

[PC]: Users can select certain date to perform recorded image file or snapped picture (stored in local PC) searching.

[SD Card]: Users can select certain date to perform recorded image file or snapped picture (stored in device SD card) searching.

[File List]: Shows the recorded image files or snapped pictures searched in the File List.

The way to search for recorded image files or snapped pictures of a specific period(see Figure 10):

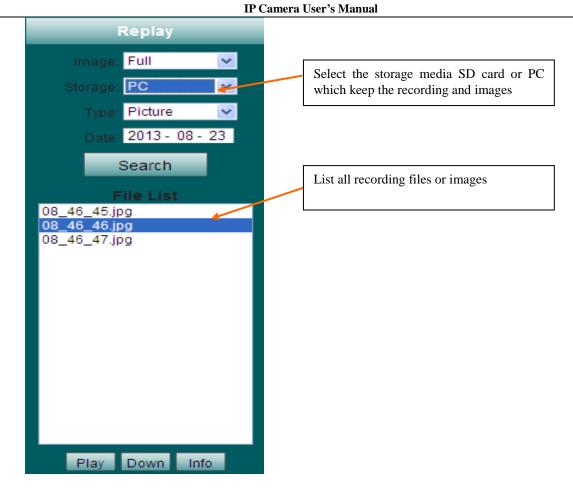


Figure 10

[Play]: Choose the recorded image or snapped picture in file list, right click the file or picture or click "play" button Play to play. The contents will be displayed in the right window, users can view the playing information and control the process(see Figure 11):

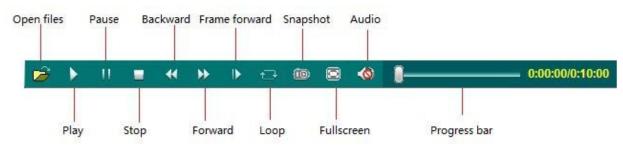


Figure 11

[Down]: Select the recorded files or snapped pictures searched from SD card in the

file list, click "download" button **Down** to download the files to PC.

[Info]: Users can view the information downloaded after clicking "Download" (see Figure 12):

>	Download time	File Size	Download	File path
92.168.1.180	2013-08-20 17_14_28	242.39KB	Downloadi	F:\Users\Bevis Hu\Desktop\\1.264
	922077(192.168.1.180)	– (Channel 1	▼ Path F:\Users\Bevis Hu\Desktop\1.264 >>



Click [Start] to start download recording files or pictures from SD card to PC manually, click [Cancel] to stop the download action, .If you close the Download Information window and click info, you can continue to view the information about download.

5 Set System Parameters

5.1 Local config

See Figure 13 for the interface of "System Settings":

- Local Config	Local Config			
Local Config				
+ Audio Settings	Preview Mode	Real Time	*	
+ Video Settings	Reset Mosai	c 🗖		
+ Network Settings	Record file packing time	5	*	М
+ Storage Settings	Record File Pat	D:\cmsrec\		
+ Alarm Settings		6		
+ COM Setting		Save		
+ System				
· oystem				

[Preview mode]:users can choose Real time priority or Fluency priority mode according to their needs.

[Reset Mosaic]:select this option to make image quality better, but CPU usage rate will be higher at the same time.

[Record file packing time]:set packing time of record files for local PC when it is recording.

[Record file path]: set the storage directory for local records and snapped files.

After you set these parameters, please click Save to make them valid.

5.2 Audio Setting

See Figure 14 for the interface of "Audio Setting".

Audio Parameter Video Settings Audio Input Mic Video Settings Compression Type G.711A G.711A G.711A Audio Bitrate 16000 V Alarm Settings Sampling Rate 8k V 10	Local Config	Audio Parameter		
• Addo Parameter Addio Parameter • Video Settings Audio Input • Network Settings Compression Type • Storage Settings Audio Bitrate • Alarm Settings Sampling Rate • COM Setting Input Volume • System Output Volume	– Audio Settings			
+ Video Settings Compression Type + Network Settings Compression Type + Storage Settings Audio Bitrate + Alarm Settings Sampling Rate + COM Setting Input Volume + System Output Volume	Audio Parameter	Enable		
+ Storage Settings Audio Bitrate 16000 + Alarm Settings Sampling Rate 8k + COM Setting Input Volume 10 + System Output Volume 10	+ Video Settings	Audio Input	Mic	*
+ Alarm Settings Sampling Rate + COM Setting Input Volume + System Output Volume	+ Network Settings	Compression Type	G.711A	*
+ COM Setting Input Volume 10 + System Output Volume 10	+ Storage Settings	Audio Bitrate	16000	\sim
+ System Output Volume 10	+ Alarm Settings	Sampling Rate	8k	*
	+ COM Setting	Input Volume	0	10
Save	+ System	Output Volume	0_	10
			Save	

Figure 14

[Enable]: turn on or turn off the audio of IP camera, When there is no need for audio, close

audio input to save DSP resource and network resource. Audio is disabled by default.

[Audio Input]:You can choose MIC or Line In input.

[Compression Type]:Support three types of audio compressed

format:G.726,G.711A,G.711U.

[Sampling Rate]: Support audio sample rates of 8k and 32k.

[Input Volume]: Adjust the device's input volume to control the volume of Listen.

[Output Volume]: Adjust the device's output volume to control the volume of Call.

5.3Video Settings

5.3.1 Text Overlay

See Figure 15 for the interface of "Video Settings":

+ Local Config	OSD Settings
+ Audio Settings	
– Video Settings	
OSD Settings	
Video Coding	Title
Video Mask	
Video Parameter	Color White
Picture Parameter	Title 🗹 🔹 🔹
+ Network Settings	
+ Storage Settings	Date V Time V Week
+ Alarm Settings	Date Format VYYY-MM-DD
+ COM Setting	Frame/Bitrate
+ System	Connecting No. 🗹
	Save

Figure 15

[Title]: the name of video channel, displayed at the bottom left of image(movable), maximum

characters allowed: 32.

[Color]: You can choose different colors for the text.

[OSD]: Display or not to display Title, Date, Time, Week, Date Format and Frame/Bitrate of channels.

[Position]: Can adjust the display position of video title and Date, Time, Week.

After you set these parameters, please click Save to make them valid.

5.3.2 Video Coding

See Figure 16 for the interface of "Video Coding":

+ Local Config	Video Coding					
+ Audio Settings						
– Video Settings		Main Stream			Sub Stream	
OSD Settings	Coding Level	Main Profile 🛛 🗸		Coding Level	Main Profile 🗸 🗸]
 Video Coding 	Coding	H.264 💌		Coding	H.264 🗸]
 Video Mask 	Resolution	1280 * 720 💌		Resolution	640 * 480 🗸]
Video Parameter	Quality	Normal		Quality	Basic 🗸	
Picture Parameter	Advanced			Advanced		
+ Network Settings	Rate control	VBR 🗸		Rate control	VBR 🗸	
+ Storage Settings	Quality	Worse 🗸		Quality	Worse 🗸	
+ Alarm Settings	Bitrate limits	(30~16384Kb/S)		Bitrate limits	(30~16384Kb/S)	
+ COM Setting	Bitrate(Kb/S)	2048		Bitrate(Kb/S)	512]
+ System	ridine race(r/o/	25	(1~25)	Frame rate(F/S)	25	(1~25)
	GOP(F)	75	(1~200)	GOP(F)	50	(1~200)
		LAN WAN			LAN WAN	
		Court				
		Save				
	* LAN:LAN Defa					
	* WAN:WAN De	erault.				

Figure 16

[Coding Level]: Baseline and Main profile available, only for H.264 compression

format.Baseline suit for low delay, and the situation have requirement on real time. Main profile suit for better quality.

[Coding]: H.264 and MJPEG.

[Resolution]: set resolution of images.

720P support:

Preferred Stream:1280*1024/1280*960/1280*720;

Alternate Stream:720*576/640*480/640*352/320*240;

1080P support:

Preferred Stream:1920*1080/1280*960/1280*720;

Alternate Stream 720*576/640*480/640*352/320*240;

[Quality]: You can choose the right quality according to your need: Fine, Normal,

Basic, and the parameters can also be user-defined by choosing [advanced].

[Rate control]: CBR and VBR are optional. CBR adopts constant encoding bitrate, VBR adopts variable encoding bitrate.

[Quality]: Under CBR setting: set the bitrate range via "Image Quality", you can choose self-adaption,it means the bitrate controlled by the software, and also can choose ±10%~±50%, ±10% means the bitrate range from -10% to +10% of the value of bitrate. Under VBR setting: set image quality via "Image Quality", 6 level available, from best to

worst.

[Bitrate]: The range of preferred and alternate stream is 30~16384Kbps. Higher bitrate setting can generate better image quality, but it occupies more bandwidth, please adjust the setting according to your actual bandwidth.

Under CBR setting, [Bitrate] is the constant bitrate of encoding.

Under VBR setting, [Bitrate] is the variable bitrate of encoding.

[Frame rate]: Set encoding frame rate per second. Under poor network condition, frame rate can be reduced to control encoding bitrate to make motion images flow more smoothly.

[GOP]: Adjustable between 1~200(Preferred Stream), 1~200(Alternate Stream).Smaller

I frame interval means higher bitrate and better image quality. It is recommended to set the I frame interval as above 25.

[LAN default value]:

Main stream:H.264 Coding: GOP: 75, frame rate: 25, rate control: VBR, image quality:better 720P:2048kps, 1080P:4096kps

MJEPG Coding: GOP: 75, frame rate:25, rate control: VBR, image quality:better

720P:9216kbps, 1080P:10240kbps

Sub Stream:

H.264 Coding: GOP: 50, frame rate: 25, bitrate: VBR, 512kbps, image quality:Bad;

MJPGE Coding: GOP: 50, frame rate: 25, bitrate: VBR, 4096kbps, image quality:Bad;

[WAN default value]:

H.264 Coding: GOP: 25, frame rate: 5, bitrate: CBR, 384kbps, image quality:Bad;

MJPEG Coding: GOP: 25, frame rate: 5, bitrate: CBR, 4096kbps, image quality:Bad;

After you set these parameters, please click Save to make them valid(After change the coding lever, resolution and coding, device will restart.).

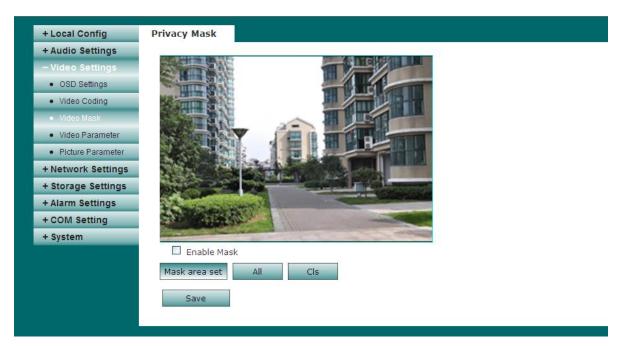


caution.

IP Camera User's Manual

5.3.3 Video Mask

See Figure 17 for the interface of "Video Mask":





[Enable Mask]: Enable or disable video masking.

[Mask area set]: Click and move cursor to set image masking area, an image can be entirely or partially masked, maximum 4 areas supported.

[AII]: Mask the whole image.

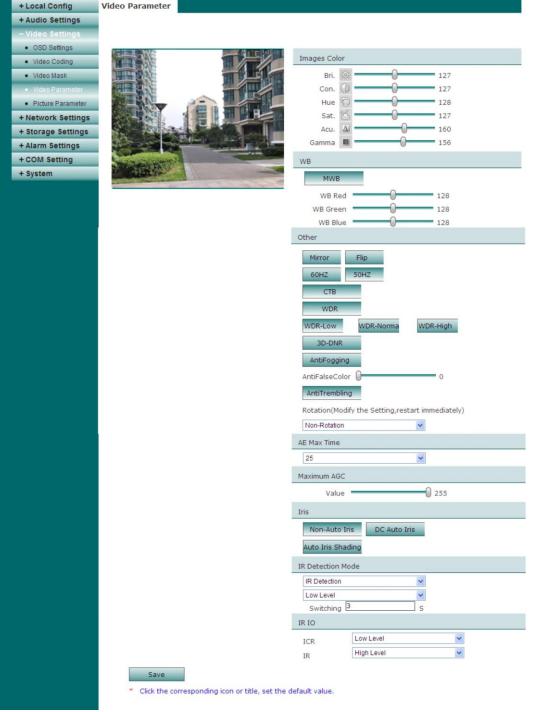
[CIs]: Clear masked areas.

After you set these parameters, please click Save to make them valid.

5.3.4 Video Parameter

See Figure 18 for the interface of "Video Parameter":

IP Camera User's Manual





[Images Color]: Adjust the Brightness, Contrast, Hue, Saturation, Acutance, Gamma of video.

[WB]:You can choose Manual WB or AWB mode to adjust white balance,AWB is default open.

[Other]:

[Mirror]:Set mirror,horizontally rotate the video;

[Flip]:set flip,vertically rotate the video;

[60HZ 50HZ]: In indoor environment, if the flashing of lamps results in the flickering of images, please choose 50HZ or 60HZ according to the power frequency. 50HZ suit for PAL system, 60HZ suit for NTSC system;

[CTB]:Set CTB ,IPC will automatically turns on D/N function according to the image's situation.

[WDR]:Set WDR, Enhance the image quality in such area:strong light source (sunlight,

lamps or reflectors, etc.) ,shadow of high-brightness,backlight

[3D-DNR]:Set 3D NR to get a clearer picture in low light environment, effectively eliminate video noise and color noise In low light conditions.

[AntiFogging]: Set anti fogging function, when the density of fog up to a high value, the ISP will change the brightness and contrast to improve the quality of image.

[AntiFalseColor]: Set anti false color function, can cancel the Moore profile effect in high frequency part.

[Rotation]: support 90 degree and 270 degree rotation.

[AGC]: Change the value of AGC can adjust the effect of image in low lighe-level.

[AE Max Time]: Set the value of Shutter to control exposure time

[Iris]: Set Non-Auto Iris, Can be used with non-auto iris lens.

Set DC Auto Iris, Adjust the control level of auto-iris to control the luminous flux .

Auto Iris Shading: for the first time using auto iris, please redress the iris in the light box.

[IR Detection Mode]: This function only for the camera has infrared function, support 3 kinds of detection mode, suit for different infrared light board and situation.

[Time Detection]: for this mode, set the time to turn day mode and B/W mode, this mode with first priority.

[IR Detection]: for this mode, the photo-resistor will detect the value of LUX, to suit different infrared Light board, we support 3 kinds of wording mode: 1, low level mode, when the device get low level voltage from Infrared light board, the device will turn to B/W mode; 2, high level mode, when the device get high level voltage from infrared light board, the device will turn to B/W mode; 3, auto detection mode, when the device power on, it will take sample of light, then just it is day mode or B/W mode, and it also get the value of voltage from infrared light board, combination the two value and take them as the condition to turn to day mode or B/W Mode.

IP Camera User's Manual

[Video Detection]: for this mode, the sensor will detect the value of LUX, and decide turn to

B/W mode or not. The lager the value is, more sensitive about turn to B/W mode.

[IR IO]: this function suit for the camera with IRCUT and infrared light board. eg: for ICR, when set low level, it means when the device send a low level voltage to IRCUT module, the IRCUT will turn to B/W mode.

After you set these parameters, please click Save to make them valid.

5.3.5 Picture Parameter

See Figure 19 for the interface of "Picture Parameter":

+ Loca	l Config	Snap Picture			
+ Audio	o Settings	-			
– Video	o Settings	Picture F	ormat	jpg	*
• OSE	D Settings	Reso	olution	1280 * 720	*
Vide	eo Coding				
Vide	eo Mask			Save	
Vide	eo Parameter				
Pict	ure Parameter				
+ Netw	ork Settings				
+ Stora	ige Settings				
+ Alarm	n Settings				
+ COM	Setting				
+ Syste	em				



[Picture]: Supports only images of JPG format currently, megapixel camera definition is the

same as set in [video definition].

After you set these parameters, please click Save to make them valid.

5.4 Network Settings

5.4.1 Basic Setting

See Figure 20 for the interface of "Basic setting":

IP Camera User's Manual

+ Local Config	Basic Setting
+ Audio Settings	
+ Video Settings	Data Port 5000
– Network Settings	Web Port 80
Basic	ONVIF Port 2000
• LAN	Save
PPPOE	
UPNP	
EMail	
FTP	
DDNS	
VPN	
RTSP	
IP EMail	
Connecting	
+ Storage Settings	
+ Alarm Settings	
+ COM Setting	
+ System	

Figure 20

[Data port]: Default value is 5000 (users are recommended not to change it).

[Web port]: Default value is 80 (users are recommended not to change it).

[ONVIF port]: Default value is 2000 (users are recommended not to change it).

After you set these parameters, please click Save and the device will reboot to make the parameters valid.

5.4.2 LAN Setting

+ Local Config LAN Setting + Audio Settings DHCP Enable + Video Settings IP 192.168.3.234 Network Settin Subnet Mask 255 . 255 . 255 . 0 Basic Gateway 192.168.3.1 Preferred DNS 202 . 96 . 134 . 133 PPPOE Alternate DNS 202 . 106 . 0 . 20 UPNP MAC 00-5d-20-32-3a-db • EMail • FTP Save • DDNS VPN RTSP IP EMail Connecting + Storage Settings + Alarm Settings + COM Setting + System

See Figure 21 for the interface of "LAN setting":

[DHCP Enable]: If DHCP function of the router is enabled, IP camera will automatically fetch IP address from the router.

[IP]: Set the camera's IP address.

[Subnet mask]: Default value is 255.255.255.0 (users are recommended not to change it).

[Gateway]: Set the gateway IP of IP camera, for example when the device is connected to public network via a router, the gateway IP is the router IP.

[DNS]: The default DNS address is the DNS address of Guangdong province, users

outside the area please use DDNS function to set the DNS address as their

local DNS address.if users do not know the local DNS, you can use 8.8.8.8.

[MAC]: The Physical address of IP camera (users are recommended not to change it).



Note: After revise and save parameters, the device will restart. If it

is applied in LAN, please pay attention to avoid IP collision

5.4.3 Wireless Setting

See Figure 22 for the interface of "Wireless setting":

	IP Ca	mera User's	s Mai	nual
+ Local Config	WiFi Setting			
+ Audio Settings				
+ Video Settings	WiFi Enable	✓		
– Network Settings	IP	192.168.1	. 160	0
Basic	Subnet Mask	255,255,255	5.0	
• LAN	Gateway	192,168,1	.1	
 Wireless 	SSID	dowsessid		
• PPPOE	Password	•••••		
UPNP	Type of Encryption	WEP	*	
EMail	Auxiliary Encryption	Open System	*	
• FTP	Key Format	ASCII	*	
DDNS	Frequency band	Auto	~	
• VPN	Mode	Auto	~	
RTSP		Save		
IP EMail				
Connecting				
+ Storage Settings				
+ Alarm Settings				
+ COM Setting				
+ System				

Figure 22

A wireless router needs to be deployed in order to use the WIFI function of IP camera,

e.g. TP-Link WR340G 54M wireless router. The content and steps of the settings are as follows:

1 Network parameters setup for wireless router

First enter into the wireless router "network parameter" page under the menu "LAN

Setting", set the IP of wireless router

TP-LINK	54M Wireless Router Model No. TL-WR340G/TL-WR340GD
Status Basic Settings LAN	LAN Help
Quick Setup Network 1 (A) - (A) - WAN - WAN - MAC Clone Subnet Mask: 255 255 255 0 ♥ - Advanced seting DHCP - State - State	192.168.1.1 is the wireless gateway address to be set for the IP camera
Forwarding Security State Routing P# & MA: Bonding Dynamic DNS Mainteance System Tools	If you change the IP address of LAN, you must use the new IP address to go no the Router. If the new LAN P address you set is not in the same subnet, the IP Address with the DHCP server will change accordingly at the example. If the new LAN IP address you set is not in the same subnet, the Virtual Server and DMZ Host will not take effect until they are re- conjugated. Click the Save button to save your settings.

Figure 23

2 Turn to the "basic settings" page under "wireless parameters" menu,

(1) Set SSID:

This SSID is for identity validation of wireless network, it must be the same as the

SSID setting of the IP camera

(2) Frequency range

It determines the frequency range of the network, which is 1~13, default value is 6.Note:

If your neighbor also uses wireless network and its frequency is 6, you should consider

revise this parameter to 1 or 13 to reduce radio interference between the two routers.

(3) Mode

Set the working mode of wireless router. The mode must be compatible with the supported modes of IP camera.

Wireless mode supported by IP camera: 802.11a/b/g/n protocol (high power WIFI model)

(4) Enable WIFI function (compulsory)

(5) Open security setting (optional)

This option can enable the security certification of wireless router. If it is enabled,

users need to select the corresponding security mode (encryption mode) and set up authentication password.

(6) Select security type (encryption mode)

WEP, WPA and WPA2

(7) Security options

WEP security type: developing system, sharing key and auto-selection

WPA, WPA2 security type: TKIP and AES

(8) Set key (authentication password)

tatus			
asic Settings	warning: Incorrect settings may c	ect country to conform local law. uuse interference	TP-LINK_5ABB68 is to login SSID number of W for identity authentication
HCP prwarding ecurity tatic Routing	Channel: 6 Mode: 54Mbps (802.11g)	•	With the Antenna in the upright position. Away from large metal surfaces.
& MAC Binding ynamic DNS iaintenance ystem Tools	✓ Enable Wireless R ✓ Enable SSID Broad □ Enable Bridges		Check this option to enable WIFI function
	Security Type: WEP Security Option: Automatic M WEP Key Format: Hexadecimal M		Security setting is the password for identity
	Key Selected WEP Key Key 1:	Key Type Disabled V Disabled V Disabled V Disabled V	authentication, the password is empty if this option is not checked

Figure 24

3 WIFI function settings of IP camera:

(1) Enable WIFI

Select this switch will enable WIFI function of IP camera.

(2) IP address

Set the wireless IP address of IP camera, e.g. 192.168.1.160.

(3) Gateway

Set the IP address of current wireless gateway, e.g. 192.168.1.1.

(4) SSID number:

It is the login name of WIFI for identity authentication, it must be the same as the SSID number of the wireless router (e.g. TP-LINK_5ABB68).

(5) Password

It is the login name of WIFI for identity authentication, it must be the same as the key of the wireless gateway (router/AP).

(6) Master authentication encryption type

Three encryption types are WEP, WPA and WPA2. Its selection must be the same as the security type setting of wireless gateway (router/AP).

(7) Auxiliary encryption mode

WEP security type: developing system, sharing key and auto-selection

WPA, WPA2 security type: TKIP and AES

It must be the same as the security option setting of wireless gateway (router/AP).

After setting completes, save all parameters. Then disconnect the network cable,

IP camera can be visited via wireless IP, such as 192.168.1.160.

Note: Applies to models with WIFI function only.

Notice: The wireless network IP address and cable network IP

address cannot be in the same segment.

5.4.4 PPPOE Setting

See Figure 25 for the interface of "PPPOE setting":

+ Local Config	PPPOE Setting
+ Audio Settings	
+ Video Settings	Enable
– Network Settings	IP
Basic	UserName
• LAN	Password
PPPOE	Online Time
UPNP	
EMail	
• FTP	
DDNS	
VPN	
RTSP	
IP EMail	
Connecting	
+ Storage Settings	
+ Alarm Settings	
+ COM Setting	
+ System	



[Enable]: Enable or disable PPPOE dial-up function.

[IP]: After successful setting of device dial-up, it will display the public IP Address.

[Username]: ADSL dial-up account, obtain from the IP service provider.

[Password]: ADSL dial-up password, obtain from the IP service provider.

[Online time]: Start timing after dial-up to see the online duration after successful

dial-up.

After you set these parameters, please click Save to make them valid.

5.4.5UPNP setting

See Figure 26 for the interface of "UPNP setting":

+ Local Config	UPNP Setting		
+ Audio Settings			
+ Video Settings	Enable		
- Network Settings	Network Card	Lineate 🛛	
Basic	Mode	Auto 💌	
• LAN	Server URL	192.168.3.1	
PPPOE	Data Port Map No.	5000	
UPNP	Web Port Map No.	31	
EMail	Data Mapping Status	5000	
FTP	Web Mapping Status	31	
DDNS	Save Data port map No.:device data port forwards to external network port.		
VPN			
RTSP	 Data port map No.:device data port forwards to external network port. Web port map No.:device web port forwards to external network port. 		
IP EMail	 In specified mode, only 		
Connecting	 In automatic mode, will 	mapping to the appointed port in priority; if appointed port was occupied, the mapping port will auto-increment till map successful	
+ Storage Settings			
+ Alarm Settings			
+ COM Setting			
+ System			

Auto-mapping of port, when IP camera is connected to a router with UPNP function enabled, the router will automatically map the port in UPNP settings to public network, manual port mapping by users is not necessary.

[network card]: select the type of NIC connecting UPNP router. For WIFI models, when IP camera is connected to router via WIFI network, select "wireless" mode.

[Mode]: Designate mode and auto mode.

Designate mode means to specify data mapping port and web mapping port to

router.

Auto mode means data mapping port and web mapping port are set up by router.

[Server URL]: IP address of the router with UPNP function.

[Data port map No.]: Data mapping port of user-specified device on the router(works only under specified mode).

[Web port map No.]: Web mapping port of user-specified device on the router(works only under specified mode).

[Data mapping status]: When UPNP function runs successfully, the status bar will echo the data port mapped to the router by the device.

[Web mapping status]: When UPNP function runs successfully, the status bar will echo the web port mapped to the router by the device.

After you set these parameters, please click Save to make them valid.

5.4.6 Email setting

See Figure 27 for the interface of "UPNP setting":

IP Camera User's Manual

+ Local Config	EMail Setting	
+ Audio Settings		
+ Video Settings	SMTP server	smtp.126.com
– Network Settings	From	dowse@126.com
Basic	То	dowse01@126.com
• LAN	SMTP UserName	dowse@126.com
PPPOE	SMTP Password	•••••
UPNP	MAIL Title	Alarm Message
EMail	SMTP Port	25
• FTP	SSL	
DDNS		Save
VPN		Save
RTSP		
IP EMail		
Connecting		
+ Storage Settings		
+ Alarm Settings		
+ COM Setting		
+ System		

Figure 27

To set the mailbox addresses and parameters of alarm mails and public network IP mails.

[SMTP server]: The address of servers that send the mails, the address format of mail

servers varies from provider to provider, e.g. the SMTP server of 163 mailbox is

smtp.163.com.

[MAIL From]: Mailbox that sends mails.

[MAIL To]: Mailbox that receives mails.

[SMTP username]: The login user name of the mailbox that sends mails.

[SMTP password]: The login password of the mailbox that sends mails.

[MAIL title]: Title of mails.

[SMTP Port]: Port of SMTP port, different mail server has different port. For example, the

server port of Gmail is 465.

Commonly used mail server configuration:

Gmail mail server:

SMTP server: smtp.gmail.com

SMTP user name: username@gmail.com

SMTP port: 465

SSL: enabled

Yahoo mail server:

SMTP server: smtp.mail.yahoo.com

	IP Camera User's Manual
	SMTP user name: username@yahoo.com or username@yahoo.com.cn
	SMTP port: 465
	SSL: enabled
16	33 mail server:
	SMTP server: smtp.163.com
	SMTP user name: username
	SMTP port: 25
	SSL: disabled

5.4.7 FTP setting

See	Figure	28 fo	r the	interface	of "FTP	settina":
000	iguic	2010		menuoc		Setting .

+ Local Config	FTP Setting
+ Audio Settings	
+ Video Settings	Main Server Sub Server
– Network Settings	Server URL 192.168.3.10
Basic	Server Port 21 0
• LAN	FTP Catalog //ftp/
PPPOE	UserName root
UPNP	Password ••••
EMail	Start Port 21
• FTP	End Port 0
DDNS	Save
• VPN	
RTSP	
IP EMail	
Connecting	
+ Storage Settings	
+ Alarm Settings	
+ COM Setting	
+ System	



FTP server sends the record files and snapped images generated after alarm is triggered in FTP mode to specified FTP server, supports 2 FTP servers, when the preferred one goes wrong, system will switch to the alternate one.

[Server URL]: The IP address or HTTP address of FTP server.

[Server Port]: Port of FTP server, the default port is 21.

[FTP Catalog]:Path on remote FTP server, if the path does not exist or has not been filled in, the device will create a file folder under the root directory of FTP server.

[User name] and [Password]: User name and password of FTP server.

Notice: If you want to upload the record files and snapped images, you must have the authority to write on the FTP server.

5.4.8 DDNS setting

See Figure 29 for the interface of "DDNS setting":

+ Local Config	DDNS Setting	
+ Audio Settings		
+ Video Settings	Enable	✓ URL <u>3322.org</u>
– Network Settings	Service Provider	
Basic	UserName 🛛	xiaoling_szdowse
• LAN	Password •	•••••
• PPPOE	Domain d	dowse123.f3322.org
UPNP	Server URL	www.3322.org
EMail	Server Port	30000
• FTP	Data port map No. 5	5005
DDNS	Web port map No. 8	8005
• VPN	Update Interval	2 minutes 🛛 👻
RTSP	Domain e.g.: test1.3322.	lorg
IP EMail		Save
Connecting		
+ Storage Settings		
+ Alarm Settings		
+ COM Setting		
+ System		



Bind the device with a fixed domain name by DNNS setting so that visiting to the

device can be realized no matter how the public IP changes. (Refer to Appendix 3 for

detailed steps)

[Enable]: Enable or disable DDNS function.

[Service Provider]: support 3322.org and dyndns.org.

[User Name]: User name registered in DDNS server.

[Password]: User password registered in DDNS server.

[Domain]: The domain name set up by users, e.g.: test1.3322.net.

[server URL]: DDNS server address. When DDNS address is the domain name, please

set the DNS address in [Basic Parameters] correctly.

[server port]: Default value is 30000,this is the DDNS server's port (users are recommended not to change it).

[Data port map No.]: Fill in the external data port mapped by the IP camera on the router

that is connected to public website.

[Web port map No.]: Fill in the external web port mapped by the IP camera on the router

that is connected to public website.

[Update Interval]: Choose the upgrade interval time, eg:30 minutes, so the IP camera will

upgrade the WAN IP to the DDNS every 30 minutes

After you set these parameters, please click Save to make them valid.

5.4.9 VPN setting

See Figure 30 for the interface of "VPN setting":



[Enable]: Enable or disable VPN function.

[Server URL]: IP address or domain of VPN server.

[User Name]:User registered in VPN server.

[Password]: User password registered in VPN server.

[IP]:Display IP after VPN dial-up success.

[Status]: Display the status of dial-up.

After you set these parameters, please click

Save

to make them valid.

5.4.10 RTSP setting

See Figure 31 for the interface of "VPN setting":

_	+ Local Config	RTSP Setting
	-	RTSP Setting
	+ Audio Settings	
	+ Video Settings	Enable 🔽
	– Network Settings	Enable Authentication
	• Basic	Packet Size 1460
	• LAN	Port 554
	• PPPOE	Communicate Multicast
	UPNP	Multicast Server Address 239.0.0.0
	• EMail	Main Stream Multicast Video Port 5010
	• FTP	Main Stream Multicast Audio Port 5012
	• DDNS	Sub Stream Multicast Video Port 5020
	• VPN	Sub Stream Multicast Audio Port 5022
	RTSP	
	IP EMail	Save
	Connecting	
	+ Storage Settings	
	+ Alarm Settings	
	+ COM Setting	
	+ System	



[Enable RTSP]: check RTSP switch to enable RTSP function, RTSP function enabled as

default.

[Enable encryption]: check encryption switch, disabled as default, when enable

encryption, you need the password when using VLC player connect

camera.

Open: rtsp://ip/av0_0&user=admin&password=admin;

Close: rtsp://ip/av0_0[&user=admin&password=admin]," []" Optional content;

"av0_0",frist"0" shows channel:0,1,2,3, represent the channel :1,2,3,4;IP camera has only

one channel, fill in "0";

The second "0" shows main / sub stream,0:main stream,1:sub stream;

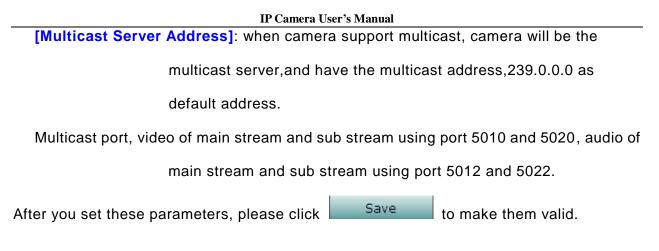
If the authentication mode is changed, the camera reboot.

RTSP port: Default port is 554.

With RTSP function enabled, users can review the audio and video streams in

real time via players that supports standard RTSP protocol

[Communication]: Multicast function is enabled as default.



5.4.11 Public IP noticed by email

See Figure 32 for the interface of "Public IP noticed by email":

+ Local Config	Public IP noticed by email
+ Audio Settings	
+ Video Settings	Enable
– Network Settings	Update Interval Default
• Basic	
• LAN	Save
PPPOE	
UPNP	
EMail	
FTP	
DDNS	
VPN	
RTSP	
IP EMail	
Connecting	
+ Storage Settings	
+ Alarm Settings	
+ COM Setting	
+ System	

Figure 32

[Enable Email]: Check this switch to enable public IP mail notification function.

[Update Interval]: Select the interval of public IP mail notifications.

After enable this function, when the device detects public IP changed, it

will send notification mail to the mail address setted in [mail setting].

After you set these parameters, please click Save to make them valid.

5.4.12 Connect setting

See Figure 33 for the interface of "Connect setting":

	пеа	
+ Local Config	Connect Setting	
+ Audio Settings		
+ Video Settings	Enable	
– Network Settings		
Basic	Server Port	6002
• LAN		Save
PPPOE		Save
UPNP		
EMail		
• FTP		
DDNS		
VPN		
RTSP		
IP EMail		
Connecting		
+ Storage Settings		
+ Alarm Settings		
+ COM Setting		
+ System		

Figure 33

[Auto connect]: Enable or disable active connection of the device to surveillance center.

[Central URL]: The address of surveillance center (e.g. 192.168.55.99).

[Central port No.]: The port of surveillance center (e.g. 6000).

After setting all the network parameters, click Save to make the parameters valid.

5.5 Storage Settings

5.5.1 Device Setting

See Figure 34 for the interface of "Device Setting

+ Audio Settings	al		T 1 10' (11)	F 0' (M)	C1 1	
Video Settings	Choose	1	TotalSize(M)	FreeSize(M)	Status	
Network Settings	۲	1 SD	3778	498	formatted	
Record Setting		0				
Snap Setting			F	ormat Refresh]	
Alarm Settings						
COM Setting		Code st	tream Main Stream	•		
⊦ System	Record	file packing	time 10	M		

Figure 34

[Storage Device]: View information of SD card here, including No., Total Size, Free Size and

Status. Users can also click [Format] button to format SD card, during the formatting process,

please click [Refresh] button to the display formatting completion percentage.

[Code stream]:Set record stream for SD card, Main stream and Sub stream are

selectable.

[Record file packet time]: Set packing time for record file .10M means recording files will

be packed every 10 minute.



- Hot-plugging is not recommended for SD card, compulsory hot-plugging may damage the SD card, causing data loss or abnormal operation.
- Do not cut off the power of the device during formatting process.
- Ext2 file is used to format system by default.
- IP Camera does not support the storage that formatted into several partitions, so if you want to format it on PC before using it, please format it into one partition.

After setting all the parameters, click Save to make the parameters valid.

5.5.2 Record Setting

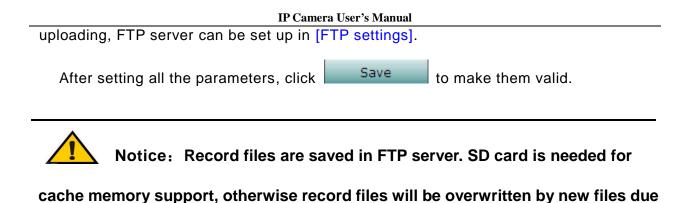
See Figure 35 for the interface of "Record Setting":

Local Config	Schedule Record		
+ Audio Settings			
+ Video Settings	Tim	ne 1 🔲 0 : 0 23 : 59	
+ Network Settings	Tim	ne 2 🔲 0 : 0 23 : 59	
	File storage m	node 🗆 E-mail 💭 Ftp	
Device Setting		Save	
Snap Setting	 Ine default sav 	ve only in the storage device in the device	3
+ Alarm Settings			
+ COM Setting			
+ System			



[Schedule Record]:Set the period of scheduled recording, two periods allowed.

[File storage mode]:Set the save scheduled recorded files to FTP server via FTP



to insufficient cache memory space.

5.5.3 Snap Setting

See Figure 36 for the interface of "Snap Setting":

+ Local Config	Schedule Snap	
+ Audio Settings		
+ Video Settings	Snap Inte	rval 1.0 S
+ Network Settings	Tim	ne 1 🔲 0 : 0 23 : 59
– Storage Settings	Tim	ne 2 🔲 0 : 0 23 : 59
Device Setting	File storage m	ode 🗖 E-mail 👘 Ftp
Record Setting		Save
Snap Setting	* The defends	
+ Alarm Settings	 The derault save 	e only in the storage device in the device
+ COM Setting		
+ System		



[Snap Interval]: Set the interval of IP camera picture snapping, minimum interval is 1 second.

[Schedule Snap]: Set the period of scheduled snapping, two periods allowed.

[File save mode]: IP camera snapped pictures can be saved via E-mail sending or FTP

uploading. E-Mail server can be set up in [Mail Settings], FTP server can be set up in

[FTP Settings].

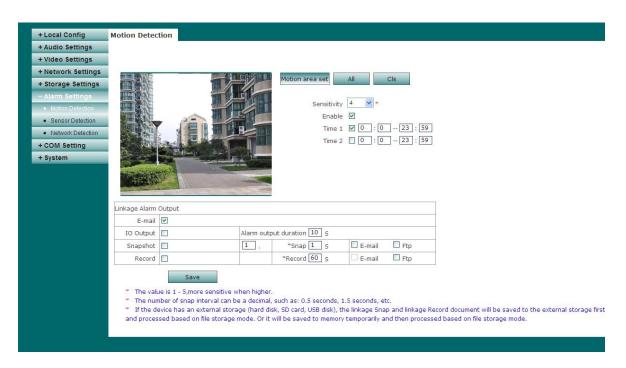


30 seconds, if snapshots so frequency, SMTP server will block the email.

5.6 Alarm Settings

5.6.1 Motion detection

See Figure 37 for the interface of "Motion detection"





In this page, users can set features like motion detection on/off, sensitivity, detection time, linkage alarm output, alarm output duration, E-mail sending when alarm been triggered, linkage snapping/recording, etc.

[Motion Detection Area]: Left click and drive the mouse to set the surveillance areas (4

areas at most).

[All]: Set the whole video as motion detection area.

[Clear]: Clear all motion detection areas.

[Sensitivity]:Sensitivity range is 1~5, greater value means higher sensitivity.

[Enable]: Enable or disable motion detection.

[Time]:Set the period of time for motion detection, two periods allowed.

[Linkage Alarm output]: Support Email, IO output, snapshot and record.

[E-mail]: Send motion detection alarm messages to users via E-mail, details about E-mail

setting please refer to [Network Settings].

[IO output]: Enable or disable alarm output.

[Alarm Output duration]: Set the duration after being triggered (in seconds), the range of the duration is 0~86400s.0 means that there is no limit for alarm output.

[Snapshot]: When alarm is triggered, the device SD card will be driven to snap pictures.

The pictures can be send via or FTP. For snapping parameters, if the number of pictures snapped at one time is set as 10, and the snapping interval is 1 second, that means when there is an alarm, 10 pictures will be snapped and the interval between each picture is 1 second.

[Record]: When alarm is triggered, the device SD card will be driven to record files. The record files can be saved to FTP server.

After setting all the parameters, click

Save

to make the parameters valid.

Notice: Record file packet time equals duration of alarm add the record

time setted in [Linkage recording].

5.6.2 Sensor Detection

See Figure 38 for the interface of "Sensor Setting":

ocument will be saved to the external storage first
ed on file storage mode.



Set sensor alarm parameters here: Enable detect, sensor type, detect time, linkage

alarm output, linkage output duration, E-mail sending when alarm has been triggered, linkage snapping/recording, etc.

[Enable]: Enable or disable sensor alarm detection.

[Sensor type]: NO and NC mode.

[Time]: Set the period of time for sensor alarm detection, two periods allowed.

[Linkage Alarm output]: Support Email, FTP, IO output, snapshot and record.

[E-mail]: Send sensor alarm message to users via E-mail, details about E-mail setting

please refer to [Network Settings].

[IO output]: Enable or disable linkage alarm output

[Alarm output duration]: Set the duration after being triggered (in seconds), the range of the duration is 0~86400s.0 means that there is no limit for alarm output.

[Snapshot]: When alarm is triggered, the device SD card will be driven to snap pictures.

The pictures can be saved via E-mail sending or FTP uploading. For snapping

parameters, if the number of pictures snapped at one time is set as 10, and the snapping

interval is 1 second, that means when there is an alarm, 10 pictures will be snapped and the interval between each picture is 1 second.

[Record]: When alarm is triggered, the device SD card will be driven to record files. The record files can be saved to FTP server.

After setting all the parameters, click Save

to make the parameters valid.

Notice: Record file packet time equals duration of alarm add the record

time setted in [Linkage recording].

5.6.3 Network Detection

See Figure 39 for the interface of "Network detection":

IP Camera User's Manual

+ Video Settings	Enable					
+ Network Settings	Linkage Alarm	Output				
+ Storage Settings	IO Output		Alarm outp	out duration 10 S		
– Alarm Settings	Snapshot		1.	*Snap 1 S		
Motion Detection	Record			*Record 60 S		
Sensor Detection		Save				
 Network Detection 						
+ COM Setting				s: 0.5 seconds, 1.5 seconds, e ard USB disk) the linkage Spa	tc. p and linkage Record document will be saved to the external s	torad
+ System					nd then processed based on file storage mode.	corag
		-				

Figure 39

Set network failure alarm parameters here: detection on/off, linkage alarm, alarm output duration, E-mail sending when alarm has been triggered, linkage snapping/recording, etc.

[Enable]: Enable or disable network failure alarm detection.

[Linkage Alarm output]: Support IO output, snapshot and record.

[Alarm output]: Enable or disable linkage alarm output

[Alarm output duration]: Set the duration of the linkage alarm output after being triggered

(in seconds), the range of the duration is 0~86400s.0 means that there is no limit for alarm output.

[Snap]: When alarm is triggered, the device SD card will be driven to snap pictures. The pictures can be saved via E-mail sending or FTP uploading. For snapping parameters, if the number of pictures snapped at one time is set as 10, and the snapping interval is 1 second, that means when there is an alarm, 10 pictures will be snapped and the interval between each picture is 1 second.

[Record]: When alarm is triggered, the device SD card will be driven to record files. The record files can be saved to FTP.

After setting all the parameters, click Save to make the parameters valid.



Notice:

 Record file packet time equals duration of alarm add the record time setted in [Linkage recording].

5.7 COM Setting

See Figure 40 for the interface of "COM Setting":

+ Local Config	COM Setting	
+ Audio Settings		
+ Video Settings	Baud Rate	9600
+ Network Settings	Data Bits	8
+ Storage Settings	Stop Bits	1
+ Alarm Settings	Check Type	None
– COM Setting	Flow Ctrl	None
COM Setting		Save
+ System		



[COM Setting]: When IP camera is connected to RS485 communication or control device (e.g. PTZ decoder, dome camera), the parameters of RS485 need to be set according to the settings of the communication control device (address, protocol, baud rate), and the corresponding protocol need to be downloaded.

Notice: Only when the parameters and protocol are correctly set that the control of add-on communication control device can be implemented.

5.8 System Setting

5.8.1 System Info

See Figure 41 for the interface of "System Info":

IP Camera User's Manual

+ Local Config	System	
+ Audio Settings		
+ Video Settings	Device Name	IPC145871
+ Network Settings	VO Standard	PAL 💌
+ Storage Settings	Language	
+ Alarm Settings	Device ID	
+ COM Setting	Version	
– System	WEB Version	6,4.0.103
 System Info 		Save
System Time	* Modifying the device la	
User Manage	Modifying the device la	anguage, please close the browser to login.
Upgrade		
PTZ Upgrade		
Restore		
Reboot		
System Log		

Figure 42

[System]:Display device name,VO standard, Language device ID,version,you can define the device name.

[Language]: Support Chines and English, after changing the language, please reopen the IE

browser to login the camera again.

After setting all the parameters, click Save to make the parameters valid.

5.8.2 System Time

See Figure 43 for the interface of "System Time":

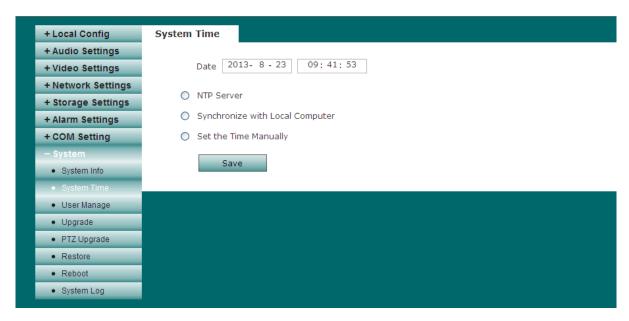


Figure 43

[System time]: Support three method to upgrade the device's time

[NTP Server] : After starting the function, switch on NTP switch and select time zone, and click save, the camera will send the query to NTP server, after get the message from NTP server, the camera will upgrade the system time, the system time will be displayed in live view.

[Synchronize with Local Computer] : After starting the function, the date and time of IP

camera will be synchronized with the local PC.

[Set the Time Manually]: If you select this option, you can modify the time manually.

After setting all the parameters, click Save to make the parameters valid.

5.8.3 User Manage

See Figure 44 for the interface of "System Time":

+ Local Config	User Management
+ Audio Settings	
+ Video Settings	Validate Mode WEB
+ Network Settings	Select User Administrator
+ Storage Settings	User Name admin
+ Alarm Settings	Password admin
+ COM Setting	Confirm Password
— System	Save
System Info	Notice: User name, Password may consist of a-z, 0-9, underscores, and a single dot (.), 1 to 15 characters; capitalization matters
System Time	Model See hame, Password may consist of a-2, 0-9, underscores, and a single dot (.), 1 to 15 characters, capitalization matters Modify User name or Password, please login again.
 User Manage 	
 Upgrade 	
PTZ Upgrade	
Restore	
Reboot	
 System Log 	

Figure 44

You can set three users for every camera, one is Administrator, the others are general

users.

Administrator authority: can operate and set all functions and parameters of IP

camera

General user authority: (1) can perform operations like snapping, recording, playback,

talkback, monitoring, alarm clearing, log searching, zooming and

full-screen reviewing;

(2) Can perform operations like visit setting, image lightness

and color adjustment, PTZ and lens control, etc.

Default user name of administrator: **admin** Default user name of general user: **user 1** **user 2** Note: user name and password are case sensitive

Password: admin Password: user 1 \user 2

Notice: User name and password must be 1-16-character-strings consisted by letters, numbers, underlines or dots. The characters are case sensitive.

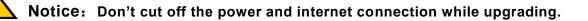
5.8.4 Upgrade

See Figure 45 for the interface of "Upgrade":

+ Local Config	Upgrade
+ Audio Settings	
+ Video Settings	Application version 1.8.0.126
+ Network Settings	Choose Upgrade File Browse
+ Storage Settings	
+ Alarm Settings	Upgrade
+ COM Setting	
– System	
System Info	
System Time	
 User Manage 	
 Upgrade 	
 PTZ Upgrade 	
Restore	
Reboot	
 System Log 	



Click "Browse" button, and select correct file of upgrade (kernel file, suffix.uot),click [upgrade], then you can upgrade your system, the completion rate will be displayed during this process. After upgrade completes, IP camera will restart automatically. Re-log in device, enter into system settings page, check to see whether the kernel edition is the upgraded edition.



5.8.5 PTZ Upgrade

See Figure 46 for the interface of "PTZ Upgrade":

+ Local Config	Protocol Upgrade
+ Audio Settings	
+ Video Settings	PTZ Address
+ Network Settings	Protocol File PELCO_D(STD_Speed),COD
+ Storage Settings	Choose Upgrade File Browse
+ Alarm Settings	Upgrade
+ COM Setting	
System Info	
System Time	
User Manage	
• Upgrade	
Restore	
Reboot	
 System Log 	

Figure 46

[PTZ address]: 1~255.

[Protocol file]: Echo the built-in protocol name of current IP camera,

PELCO-D(STD-Speed).COD as default.

[Choose Upgrade File]: You can upload the decoder/dome camera communication protocol selected by yourself. The system supports hundreds of decoder/dome camera communication protocols, it can also be defined by yourself according to the standard format of protocols.

5.8.6 Restore

See Figure 47 for the interface of "Restore":

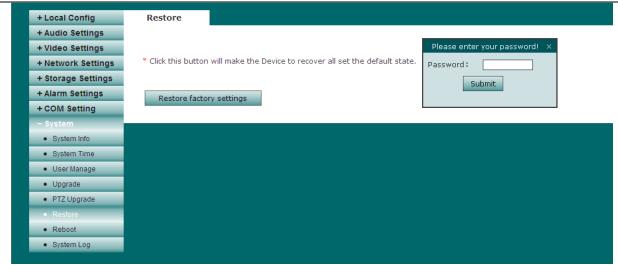


Figure 47

All device parameters (including network parameters, excluding physical address) will be recovered as factory setting values.

5.8.7 Reboot

See Figure 48 for the interface of "Reboot":

+ Local Config	Reboot		
+ Audio Settings			
+ Video Settings			Please enter your password! ×
+ Network Settings	Click this button w	vill make the Device to restart.	Password:
+ Storage Settings			Submit
+ Alarm Settings	Reboot		
+ COM Setting			
– System			
 System Info 			
System Time			
User Manage			
Upgrade			
PTZ Upgrade			
Restore			
Reboot			
System Log			

Figure 48

Click [Reboot], it will pop up a box, enter the password, the IP camera will restart.

5.8.8 System log

See Figure 49 for the interface of "System log":

+ Local Config	Log search			
+ Audio Settings				
+ Video Settings	Conditions			
+ Network Settings	Date	2013-08-22	_ 2013-08-23 Per page 25 🗸	Search
+ Storage Settings				
+ Alarm Settings	Date	Time	Content	Explain
+ COM Setting	2013-08-22	09:25:23	Power off	
– Svstem	2013-08-22	09:25:47	Power On	
System Info	2013-08-22	09:26:50	Power off	
System Time	2013-08-22	09:27:15	Power On	
User Manage	2013-08-23	08:53:46	Power off	
Upgrade	2013-08-23	08:54:11	Power On	
PTZ Upgrade	2013-08-23	09:52:11	No.1 Motion Alarm	
Restore	2013-08-23	09:52:16	No.1 Motion Alarm Finish	
Reboot				
 System Log 				

Figure 49

[Log search]: Support operation log and alarm log searching, the maximum capacity is 512 entries of message, when the number of entries exceeds 512, system will delete records of the earliest date automatically.

6 Alarm

Click Alarm, enter into alarm search page, see figure 50, When the device has

alarm, alarm light flashes, the state as figure:

Alarm

Click the button can clear

alarm manually, and pop up the log searching window. The maximum capacity is 512 entries of

message, when the number of entries exceeds 512, system will delete records of the earliest date automatically.

IP Camera User's Manual

arm search			
Conditions			
Date	2013-08-28	- 2013-08-31 Per page 20	 Search
Date	Time	Content	Explain
2013-08-28	10:47:37	No.1 Motion Alarm	
2013-08-28	10:47:44	No.1 Motion Alarm Finish	
2013-08-28	10:47:57	No.1 Motion Alarm	
2013-08-28	10:48:02	No.1 Motion Alarm Finish	
2013-08-28	10:48:18	No.1 Motion Alarm	
2013-08-28	10:48:24	No.1 Motion Alarm Finish	
2013-08-28	10:48:24	No.1 Motion Alarm	
2013-08-28	10:48:25	No.1 Motion Alarm Finish	
2013-08-28	10:48:25	No.1 Motion Alarm	
2013-08-28	10:48:26	No.1 Motion Alarm Finish	
2013-08-28	10:49:40	No.1 Motion Alarm	
2013-08-28	10:49:45	No.1 Motion Alarm Finish	
2013-08-28	10:49:57	No.1 Motion Alarm	
2013-08-28	10:50:02	No.1 Motion Alarm Finish	
2013-08-28	10:50:15	No.1 Motion Alarm	
2013-08-28	10:50:21	No.1 Motion Alarm Finish	
2013-08-28	10:52:30	No.1 Motion Alarm	
2013-08-28	10:52:40	No.1 Motion Alarm Finish	
2013-08-28	10:52:59	No.1 Motion Alarm	
2013-08-28	10:53:04	No.1 Motion Alarm Finish	

Figure 50



Click Log out, returns the login page, see figure 51,

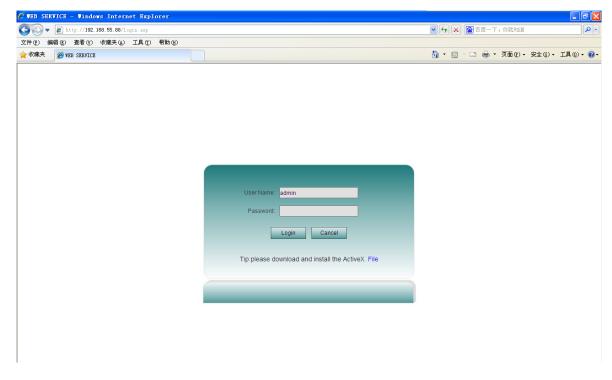


Figure 51

Appendix 1 Network Interface of IP Camera

	80	Web port	
ТСР	5000	Communication port, audio/video data transmission	
		port, talkback data transmission port	
UDP	5000	Audio/video data transmission port	
Multi-cast	Multicast original port + channel number		
port			
ONVIF	2000		

The default network ports of IP camera are:

Appendix 2 Default Network Parameters

Default network parameters

Cabled Network:	
IP Address: 192.168.1.88	Data Port: 5000
Subnet mask: 255.255.255.0	Web Port: 80
Gateway: 192.168.1.1	DHCP: Off
Wireless Network:	
IP Address: 192.168.1.160	Frequency: Auto
Gateway: 192.168.1.1	Mode: Auto
Subnet mask: 255.255.255.0	

Appendix 3 FAQs

1. Forget Password

Solution: There is a [RESET] button on the back panel of the IP camera, press it 1-2 seconds, then loosen it 1-2 seconds, and try 3 times. Camera will restore all default parameters (Factory Settings), user name and password are both "admin".

Notice: Please don't press RESET if you are not a professional

operator. After reset, all parameters will restore factory settings (except for the physical network address).

 IP camera audio/video function fails after abnormalities or abnormal power cut occur during upgrade, core edition is V4.0.0.0 (Backup file) Solution: Connect the power cord and network cable of IP camera, press on RESET

button and release it after 10 seconds, system will run the back-up

programme automatically. After enter into the back-up programme,

upgrade system. After upgrade completes, the IP camera will work normally. The back-up programme offers only upgrade and parameter setup

functions, audio and video functions are not available.

3、 No video image displayed in IE browser Possible reason: ActiveX not installed

Solution: ActiveX must be installed when visiting IP camera for the first time via

Internet Explore.

How to install: Visit IP camera, click [file], file download dialog will pop up, select [Run]

or [Save] to download. Please reference the ActiveX install part to install the ActiveX.

4、 Fail to visit IP camera via IE after upgrade Solution: Delete the caching of Browser.

Steps: Open IE—click "Tools"—select "Internet Options"—click "delete files" button in "Internet temporary files", select "delete all offline contents", then click "OK" and re-log in IP camera.

5、 The images do not smoothly

Possible reason 1: The frame rate of IP camera is too low.

Solution: Increase the video frame rate

Possible reason 2: Too many users are viewing the images.

Solution: Block some clients or reduce the video frame rate.

Possible reason 3: The bandwidth is low.

Solution: Reduce video frame rate or video compression bitrate.

6、 Fail to visit IP camera via IE browser

Possible Reason 1: Network is disconnected.

Solution: Connect your PC to network, checking whether it works properly or not.

Check whether there is cable failure or network failure caused by PC virus,

until PCs can be connected with the command of Ping.

Possible reason 2: IP Address has been occupied by other devices

Solution: Stop the connection between IP camera and Network, hook up IP camera to PC separately, reset IP address according to the proper operations

recommended.

Possible reason 3: IP addresses are in different subnets.

Solution: Check IP address, subnet masking address of the DVS and the settings of

Gateway.

Possible reason 4: Physical address of network conflict with IP camera

Solution: modify the physical address of IP camera.

Possible Reason 5: Web port has been modified

Solution: Contact Network Administrator to obtain related information.

Possible Reason 6: Unknown

Solution: Press RESET to restore default settings then connect it again, the default IP

address is 192.168.1.88, subnet mask is 255.255.255.0

7、 There is no sound while monitoring

Possible Reason: No audio input connection

Solution: Check audio connection of the host

Possible Reason 2: the audio option of IP camera is off

Solution: Check audio parameter settings to see if you have opened the audio.

8、 Pro-search software cannot find device

Possible reason: Pro-search software adopts multicast protocol to perform searching.

But the firewall forbids multicast data packet.

Solution: disable the firewall.

9、 Image processing does not work properly

Possible Reason 1: system issue, DirectX function is disabled, which will cause slow display of images and abnormal color.

Possible Reason 2: hardware issue, graphics card does not support image acceleration and

hardware zooming functions.(For hardware issue, the only solution is to replace graphics card)

Solution: install DirectX image drive, then Start \rightarrow Run \rightarrow input "DXDIAG" as follows:



Notice: Enable DirectDraw speedup, Direct3D speedup, AGP veins

speedup in DirectX function. If they can not be enabled, that means DirectX installation fails or hardware not supportive.

