IP CAMERA USER MANUAL

Version: V1.0.0

2015.1

This is a general specification, parts of the function may not exist in some of type cameras, such as non WIFI camera will not have WIFI function, does not camera with audio will not have audio features and so on.

Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer. This manual applies to IP Camera. This manual may contain several technical incorrect places or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

Important Safety Instructions and Warnings:

- Electronic devices must be kept away from water, fire or high magnetic radiation.
- · Clean with a dry cloth.
- · Provide adequate ventilation.
- Unplug the power supply when the device is not to be used for an extended period of time.
- Only use components and parts recommended by manufacturer.
- Position power source and related wires to assure to be kept away from ground and entrance.
- Refer to qualified personnel for all service matters.
- Save product packaging to ensure availability of proper shipping containers for future transportation.

A Indicate that the un-insulated components within the product may carry a voltage harmful to humans.



Indicate operations that should be conducted in strict compliance with instructions and guidelines contained in this manual.

Warning: To avoid risk of fire and electric shock, keep the product away from rain and moisture!

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CHAPTER 1 SYSTEM INTRODUCTION

1.1 Product Description

HD 1MP and 2MP IP camera is designed for compressing, processing, and transmitting audio and video data. It can capture image and audio, process H.264 video data and G711 audio data which could be transmitted on internet, transmit real-time image and audio on network at the same time.

H.264 High profile/M-JPEG video compression format allows image output resolution up to 1920×1080@30fps or 1280×720@30fps.It supports three simultaneous video streams, bi-directional audio and G.711 audio compression. Functioned with ICR day/night switch, motion detection, privacy mask, alarm input/output and local recording.

1.2 Product Features

IP camera has the following features and functions:

- 1/3" progressive scan CMOS 1.3 or 1/2.8" CMOS2.0 megapixel HD sensor;
- IR-Cut Removable (ICR) Filter for Day/Night switching
- High-resolution image signal output: up to 1920×1080@30fps or 1280×720@30fps;
- Support 3D denoise;
- Bi-directional audio, G.711;
- · Supports Motion detection, privacy mask and Local Recording;
- Supports multiple ways to handle alarms, such as email sending, FTP upload;
- Supports multiple network monitoring: Web Viewer, IOS, Android;
- Support Onvif Profile S;
- Supports General_CMS client of XiongMai, UC2 client of topsee and I8 protocol of AEVISION;
- Standard SDK is provided for easy integration with other video surveillance software;

1.3 System Requirement

Configuration of the computer to display image and control the camera:

CPU:	Intel Pentium 4, 2.4 GHz or above
RAM:	512 MB or greater
Network Port:	100M Ethernet port
Operating System:	Microsoft Windows 7, Microsoft Windows XP
IE browser version:	Microsoft Internet Explorer 6.0 or above

When view the video, the user need to adjust the IE browser of the monitor or other video devices, and set proper system function based on the following instructions:

- Support IE browser version: Internet Explorer 6.0 or above;
- Must install IPC_AX control and equip with Directx 9.0c.

2.1 Equipment Connection

(1) IP camera can be directly connected to a computer, or connected to a network as the figure below, then connect the power adaptor and power-on.



Figure 2-1 Network connection

(2) Please make sure that the PC or swich's network light is flashing(yellow).

Please use the provided power adaptor.Unauthorized power adapter may damage the IP Camera

Check whether the connection is tight or not before power-on.

2.2 Software Installation

The installation procedures of IP camera image software are listed as follows:

(1) Search IP

The default IP address is http://192.168.1.18; the default subnet mask is 255.255.255.0 and the default gateway IP address is 192.168.1.1. If the camera IP address changed, you can find the IP address via procedures below.



First, copy the search tool desktop and open it.

from the CD to the computer

Second, click the "search" button to find IP camera on the local lan. Then the camera IP address will display in the software as the picture below.

evice Bro	wise Device upg	ades							
number	Device type	IP address	Subnet mask	gateway	Video port	Http port	RTSP port	MAC Address	Software version
0	90	192, 168, 1, 13	361351353	192.169.1.1	60	93	554	4240-54-41-70-40	1.4.5.0
Soupment MAC Addr	nformation Tester (42-62-53-34	1-70-40	Equipment netv	ork information		Equipment pr	et information		earch
Verification	Cade:	Get	Device IP: Celevey:	192.168.1.18 192.168.1.1		Video port:	90 554		
Rester	ian code: rt	Clear Passwords	Subnet mask: Modify net	ek		Hodify the	pert		

Figure 2-2 IP Search

(2) Login

Start IE browser and enter IP address. Enter user name and password in the pop-up login interface.

Do log in the system with the default super user for the first time to run the software. The default Super User is admin (password: admin).

(3) Install and run Control

There are two ways to install control.

Method 1:

The prompt message as below will come out in live view window after a successful login. Click the link "download control" to run, or store the exe file, then run it.

(C) () () Http://202108.118/keov	melindec.mp? D + C 🦪 N	Shitsoft Carran ×	x () ()
	Медар	ipixel IP Camera	
Viewing	Setting	🔎 🙆 🎬 🙇 🔹 🛤	~
View Stream type Major shream V Stream type Major shream V Video size Auto V Ray mode Smooth V Color mode Fresh V PTZ control V	click here <u>do</u>	lownload control After Install the control, refresh the page please.	
Do you want to run	or save IPC_AXLesse (2.20 MB) fr	6) from 192.168.1.18? Ban Save ¥ Sancel ×	

Figure 2-3 Download IPC_AX



Figure 2-4 Run IPC_AX

If the installation fails, check whether there is video viewed through other IE window or page. You should close the video or the IE window directly. If it successes, click refresh, you can view the live video.

Method 2:

The prompt message as below will come out in the page after a successful login. Right click "Allow".



Figure 2-5 Security Warning

Then the prompt of security warning will pop up to remind the user to install IPC_AX control. Click "Run".

After IPC_AX control is installed, you can view the live video. If it pops up reboot prompt, please cancel reboot. Then close all the IE window and install IPC_AX control once again. The live video will display as below:



Figure 2-6 Live video

∕∆_{Note:}

If IPC_AX control installation falls, the live video won't display. Then, you should change the IE security level.

- 1. Select "Tool" in the menu bar, and then select "Internet Options" from the drop-down menu.
- 2. Select "Security" in the pop-up Internet options.
- 3. Click "Internet" icon and then click "Custom Level".
- 4. Select "Enable" or "Prompt" in the options of "Download unsigned ActiveX controls".

5. Click Privacy in the "Internet", clear "Block pop-ups", then redraw the screen and install control as per the prompt. The live video will display.

By now, the IE browser setting for image viewing comes to an end.

CHAPTER 3 VIEW LIVE VIDEO IN BROWSE

Start IE browser after the server is powered on for about 100 seconds, and then enter IP address, such as http://192.168.1.18 (default) or the IP address searched by IPWizardIII, in the address field.

Note: The default subnet mask is 255.255.255.0 and the default gateway IP address is 192.168.1.1. For normal access, please correctly set local IP parameters before system login.

The login interface is displayed as shown in figure below in English operating system.

ie server 192 rver reports	.168.1.18 is asking for your user name and password. The that it is from Megapixel_IP_Camera.
arning: You thentication	user name and password will be sent using basic
	User name
	Password
	Personality standartists

Figure 3-1 User Login

Do log in the system with the default super user for the first time to run the software. The system default Super User is admin (password: admin). Input the correct user ID and password and then press "OK" button to login the system. After login is successful, the following interface will display:



Figure 3-2 Live View

IP camera supports H.264 and M-JPEG video compression formats. After successful login, it enters H.264 major stream live video interface. Users can also select H.264 minor stream or MJPEG from the dropdown list of stream type. In the H.264 major or minor stream type, users can do recording, snap-shooting, and audio in/out settings. Over browsing videos, users can also select a proper video scale.

Play mode: live or smooth for option.

Color mode:Fresh,Standard,cold for option.

IP camera supports digtal zoom.Click the button *P* to enable digtal zoom ;when the button changes to *P*,click it to disable digtal zoom.During the digtal zoom enable, press the left mouse button and drag a blue frame area displays on the video,it will zoom in to the full live video interface; press the right mouse button and drag a area on the video,the live video will recovering.

Click the button of to snapshoot .The default storage path: C:\IPC_AX\Picture.

IP camera supports local recording. Click the recording button ²² to start recording; when the button changes to ²², click it to stop recording. During local recording, "REC" appears on the video screen. The default recording storage path: C:\IPC_AX\ Video.

Users can set the snap-shooting and recording storage path in the audio and video settings interface.

Indicate audio input/output disabled. Click the buttons to enable audio input/output and then the buttons will be shown as \mathbb{P} .

PTZ control and PTZ funciton: When the camera is working with Pan/Tilt, it is able to control the PTZ to perform such operations, such as direction control, focus and zoom adjustment, and speed setting.

Note: the login web page language should be set to english if PC's operating system language is not chinese.

Click the option tab "Setting" to enter the system setting interface.

-					
System	System Time	Advanced			
Network	Basic Information				
	Version:	V1.04.05-140926	Time zone:	GMT+08:00	
Camera	Product inf	b: HISI-AR series	SerialNum:	491C9BF3F01C	
Video8Audio	Network settings				
	MAC addre	ss: 4E-28-8F-FE-F3-11	IP address:	192.168.1.187	
PTZ Function	Default gat	eway: 192.168.1.1	Subnet mask:	255.255.255.0	
Alarm	Alarm settings				
	Alarm serv	er 1 IP: 0.0.0.0			
Record	Alarm serv	er 2 IP: 0.0.0.0			
User management	Alarm serv	er 3 IP: 0.0.0.0			
	NTP settings				
Log	NTP server	: 192.168.1.100			
	H.264 video settin	igs			
	E Public vide	eo parameters:			
	Brigh	tness: 80	Contrast:	128	
	Satur	ration: 128	Sharpness:	128	
	E Major stre	am parameters:			
	Resol	lution: 1280x720	Frame rate:	25	
	Bit ra	ite: 2000kbps	I/P rate:	25	
	E Minor stre	am parameters:			
	Resol	lution: 640x480	Frame rate:	25	
	Bit ra	ice: Tooukops	I/P rate:	45	

Figure 3-3 Settings Interface

With the help of navigation menu on the left, Super user can perform the following operations: Basic Information View, Time Settings and Advanced Settings, Network Settings, Camera Settings (including Basic Set, Effect Set, White Balance, Reset), Video & Audio Settings, Alarm Settings, Record setting, User management(Add/Delete User, Change Password), Log, etc.

ANote: The following instructions are used for the super user.

CHAPTER 4 BASIC SETTINGS AND OPERATION

This chapter mainly introduces the settings and operation of IP camera.

4.1 System

Click the navigation bar [System] and it displays the following three option tabs: System, Time and Advanced, as shown in Figure 3-3.

4.1.1 System Information

The initial interface of System Settings displays related system information, such as basic system information, network settings, NTP settings, alarm settings, H.264/MJPEG video settings, etc.

4.1.2 Time Settings

System	n Time Advan	ced
Time ze	one	
	Time zone: Daylight saving time:	(GMT+08:00) Belling, Chongqing, Hong Kong, Urumqi, Irkutsk, Ulaar ∨ On ● Off Save Cancel
NTP		
	NTP server : Sync time: Sync interval(hours):	192.158.1.100 23]:59:00 24 V Save Cancel
Sync n	DW	
	Device time: Local PC time:	2014-11-12 23:05:25 2014-11-12 23:05:26 NTP PC

Figure 4-1 "Time" Settings

Time Zone Settings

Time Zone: Select the desired time zone in the scroll box, and then click "Save" to save it.

There are 33 time zones for your selection:.

If Daylight Saving Time is applied in your region, please turn on Daylight saving time.

After settings completed, please click the button "Save".

NTP Settings

Set the NTP server's IP address, test NTP server's status, and set parameters of Sync with NTP, including enable/disable Sync with NTP, Sync time and Sync interval.

After completed, please click the button "Save".

Sync now

There are two sync modes: PC sync and NTP sync.

PC Sync means the system time is consistent with that of local PC. In the NTP Sync mode, the system will automatically adjust time to the same as that of NTP Server.

4.1.3 Advanced Settings

System	Time	Advanced	
Firmwa	re upgrade		
		Browse (Please choose upgrade file.) Submit	
Factory	settings		
	Press the butt Keep current IP	In to reset all the parameters to the factory default setting: unchanged: ☑ Reset	5.
Reboot			
	Press the butt	in to reboot the system, the window will reload after it. Reboot	

Figure 4-2 "Advanced" Settings

Software Update

Free software update is provided for IP camera, and this update service can reduce system maintenance budget.

Confirm the requirement submitted by user, we will provide the latest software for download, and help user to update the IP camera.

Follow the steps below to update software:

Click "Browse" button on the interface and the file selection dialog box will pop up.

	• • • 380	iron update		-	
Organize 🔻 👿 Open 💌 Share with 👻 New folder			- H •		-
Favorites Name	Date modified	Туре			
Decretation Decretati	11/12/2014 23:07	IFU File			
Computer					

Figure 4-3 Update software selection dialog box

Select update file. The selected update file will be displayed in the Software Update box.

After that, click "Submit" button to update software, the following information will appear:



Figure 4-4 Update confirm box

Click "OK" button, run the program to finish the update.

The response time is due to the program type. You may wait a long time for some program. Do not power off during the update process. Power-off will make update fail, even damage the original program or unable to update again.

After update successfully, it needs to reboot the system. There is time prompt in the web page during reboot. After reboot, it will skip to new web page to run new program.

Note: Available only for the super user.

Factory Settings

IP camera provides online reset function, which greatly facilitates reset

adjustment.

Select "Keep current IP unchanged", click "Reset" button and the system will pop up a message as below:



Figure 4-5 Reset to factory confirm box

Click "OK", all the parameters (excluding IP address) will be reset to the factory default settings.

If "Keep current IP unchanged" is unselected, the IP address will be reset to the factory default settings.

There is time prompt in the web page during reset. After reset, it will skip to new web page.

If current IP unchanged, you can access web page directly. If IP address resets to 192.168.1.18, you can't access web page. Then, you have to set PC's IP address to 192.168.1 section, such as 192.168.1.25. After that, access web page to change camera's IP address and save, PC's IP address will restore to the corresponding section.

Note:

- 1. To avoid error happens, the operation of online reset function should be performed under qualified personnel's guide.
- 2. Default IP address is 192.168.1.18, and default subnet mask is 255.255.255.0.
- 3. Do not power off during reset, or else the reset will fail.

Online Reboot

V100

Click "Reboot" button, the dialog box "This operation will take 100 seconds, are you sure to continue?" pop up. Click "OK" and the system will restart. There is time prompt in the web page during reboot. After reboot, it will skip to new web page.

Note: Available only for the super user.

4.2 Network Settings

Click "Network" in the navigation bar, and the following interface will display:

Network	FTP	SMTP	QoS	IGMP	PORT	DDNS	PPCN	
Network								
	DHCP:	0	on @	Off				
1	P address:	19	2.168.1.187					
	Subnet mask:	25	5.255.255.0					
	Default gatewa	y: 19:	2.168.1.1					
	Primary DNS se	erver: 19	2.168.1.1					
5	Secondary DNS	server: 0.0	.0.0					
			Save	Cancel				

Figure 4-6 Network Settings

8 options tabs are available: Network, FTP, SMTP, QOS, IGMP, DDNS and PPCN.

4.2.1 IP Settings

DHCP:	○ On ● Of	F
IP address:	192.168.1.187	
Subnet mask:	255.255.255.0	
Default gateway:	192.168.1.1	
Primary DNS server:	192.168.1.1	
Secondary DNS server:	0.0.0	
	Save C	ancel

Figure 4-7 IP Settings

Users can enable or disable DHCP. When it is disabled, users can set Unit IP address, Subnet mask, Gateway and DNS server IP address manually.

4.2.2 FTP Settings

Network	FTP	SMTP	QoS	IGMP	PORT
FTP					
Se Us Pa	erver : ser name: sssword:	0.0	.0.0		
			Save	Cancel	

Figure 4-8 FTP Settings

IP camera has the function of alarm associated with FTP upload (alarm triggered image snapshot). Configure server IP, user name and password in the FTP settings and activate FTP handling way in alarm settings, then alarm triggered images FTP upload can be achieved.

4.2.3 SMTP Settings

Network	FTP	SMTP	QoS	IGMP	PORT	DDNS
SMTP						
	Server :	0.0	0.0.0			
	From:	ipo	@domain.co	om		
	To:	tes	t@domain.c	om		
	CC:					
	Authentication	: 0	On 🤅	Off		
	User name:					
	Password:					
			Save	Cancel		

Figure 4-9 SMTP Settings

User needs to set mail server, recipient, etc in SMTP settings interface.

- Server IP: Set mail server address.
- From: Set sender's mail address.
- To: Mail address of recipient.
- CC: Mail address of the person copy to.

- Authentication: Enable or disable authentication function. This function should be set according to authentication requirements of mail server.
- User name: Sender's name, it can be set according user's needs.
- Password: Set sender's password.

Note: there is no limit for Sender's name and password settings.

After setting, click "Set" Save to take effect.

If user selects "mail" in "Alarm Settings" interface, system will send mails according to SMTP settings.

4.2.4 QOS Settings

Network	FTP	SMTP	QoS	IGMP	PORT
QoS					
Qos	S option:	Hi Hi Lo	gh reliability gh throughput w time-delay		
		_			

Figure 4-10 QOS Settings

There are 4 network Qos modes to be selected:

- (1) Normal Service
- (2) Max Reliability
- (3) Max Throughput
- (4) Min Delay

Recommend: Normal Service.

4.2.5 IGMP Settings

am type:	Major S	tream	~	
e:	On	0	Off	
iCast IP address	225.0.1	58		
port:	6699			
	Sav	e	Cancel	
	e: Cast IP address port:	e:	2: On Or Cast IP address: 225.0.1.58 port: 6699 Save	225.0.1.58 port: Save Cancel

Figure 4-11 IGMP Settings

IP camera supports multicast function. In the IGMP interface, users can select the stream type and set the state, multicast IP address and RTP port.

4.2.6 PORT Settings

The PORT interface displays the ports camera use. Users can modify RTSP, Http and Video port.

Network	FTP	SMTP	QoS	IGMP	PORT	DDNS	PPCN
PORT							
	RTSP Port:	554					
	Onvif Port:	8000					
	Http Port:	80					
1	Video Port:	90					
			Save				
	Notes: Setting Please reboot	is are invalid the device an	while the po d refresh the	rts are repeat e page after c	I hanging the	ports.	

Figure 4-12 PORT Settings

The default Http(WEB) port is 80. You can change it at will. But if you change it as 8888, then you enter 192.168.1.18:8888 for accessing the device.

All the port in the interface can be changed but can't be the same. The unavailable port is a bad choice.

Note: The port modify will not take effect until device reboot.

4.2.7 DDNS Settings

Network	FTP	SMTP	QoS	IGMP	PORT	DDNS	PPCN
DDNS							
	DDNS Status:	0	On @	Off			
	Method:	Ca	mAnyWhere	\sim			
	Server Address:	dn	s.camanywhe	ere.net			
:	Server Port:	86					
	UserName:	ipc	amera2014				
	Password:						
1	Domain:	ipc	amera2014.x	icp.net			
			Save				

Figure 4-13 DDNS Settings

Dynamic Domain Name System (DDNS) synchronizes the host name and dynamic IP address continuously. Users don't have to memorize the dynamic IP address, but enter the dynamic domain name to connect the IP camera.

DDNS needs a PC with fixed IP address on the Internet to run the dynamic domain name server.

Operation: select DDNS type in Enable option, enter the IP address of the DDNS server into the address bar, configure domain name, user name, password and update time and then save the settings. Open the IE browser, and enter the domain name to go to the query page of the device.

4.2.8 PPCN Settings

Create mapping between private network and the Internet via P2P protocol.

Select PPCN option ,view PPCN status or config PPCN. Users can view live video and config camera by smart phone almost anywhere you can surfe the internet.

PPCN		
PPCN:	• ON	O OFF
ID:	PPCN-0	00331-XNHZR

Figure 4-14 PPCN Settings

Click "ON" to enable PPCN, Click "OFF" to disable PPCN.

Note: Invalid ID will display the character "random"behind, user cannot access IP camera though the Internet.

4.3 Camera Settings

Click "Camera" in the navigation bar to enter the interface shown as below:



Figure 4-15 Basic Settings

4.3.1 Basic Settings

You can set the following parameters:

Flicker frequency: 50Hz or 60Hz.

CVBS: It automatically changes with the flicker frequency. (Notes: analog videos are shut off after MJPEG stream is enabled. To enable analog videos, please disable MJPEG stream.)

Enable or disable vertical&horizontal mirror,backlight compensation,digital WDR,antiFalse color,antifog,Lensshade &LensDistort correct or dig-imgstabilize.

4.3.2 Exposure Settings

Basic setttins	Expose sett	ings El	ffect setttings	White balance	Reset	
E	xposure mode:	Scene	\sim	IR mode:	Day	\sim
S	cene:	Outdoor	~	IR enable:	Enable	~
A	GC:	16X	~	Switch time:	3s	~
S	hutter speed:		1/100	Color mode:	Colorful	~
M	anual AGC:		± 1X	HiLightCompre	ess: Off	~
				ExposureTarge	et: 🖃——🖉	128

Figure 4-16 Exposure Settings

Exposure mode, scene, AGC, shutter speed,manual AGC, IR mode, IR enable, Switch time,color mode HilightCompress and ExposureTarget can also be set in this interface.

Exposure mode: Manual, Scene and Shutter. In the Scene mode, indoor or outdoor can be selected and AGC can be set (maximum 64X); if set to manual

mode, shutter speed can be set from 1/25s to 1/8000s and manual AGC can be set to 1X to 64X, yet the scene and AGC are nonadjustable; if set to shutter mode, the shutter speed and AGC can be set.

IR mode: Auto mode, Night, Day, Outcontrol. In Auto mode, the camera can automatically control the day/night switching; in Day mode, videos are in color mode; in Night mode, videos are in black/white mode; outcontrol mode, ICR is controlled by external signals.

Color mode:Colorful,Standard or Cold mode can be configed as you like.

HilightCompress: select on, when Strong light coming ,the camera will auto compress the brightness in order to the High light area can be see clearly.

Exposure target: set exposure target level. It can adjust video brightness via Exposure target setup.

4.3.3 Effect Settings

In the Effect Settings interface, users can adjust the brightness, sharpness, hue, contrast, saturation and 3D denoise in two ways: General or Mode, as shown in the figure below:

Basic setttins	Expose settings	Effect setttings	White balance	Reset
	General OMde			
E 5 6 7 8 8	Brightness: Definition: Defin	▲ 80 ↓ 128 ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ▲ ↓ ↓		
	Save			

Figure 4-17 Effect Set - General

Drag the sliding block to adjust the brightness, sharpness, hue, contrast, saturation and 3D denoise.

Basic setttins	Expos	e setting	s Effect	t setttings	White b	alance	Reset	
	General tode cal	I @ Mode	e	Mo	de edit			
5	Start time	End time	Call	On Mor	de:	mode1	~	
	0:0	0:0	mode1 🗸	Nar	ne:	mode1		
	0:0	0:0	mode1 🗸		https://			120
	0:0	0:0	mode1 🗸	Sha	arpness:			128
	0:0	0:0	mode1 🗸	Hue	e:			128
	0:0	0:0	mode1 🗸	Cor	ntrast:			128
	0:0	0:0	mode1 🗸	Sat 3D	uration: denoise:		*	64 16
		Save		Fa	ctoryset	Save	Cancel	

Figure 4-18 Effect Set - Mode

The camera supports 6 video effect modes. Users can set and save Name, ICR control mode and Scene parameters for each mode. Click "Factoryset" to restore it to default settings.

The camera provides 6 User Modes. Each mode matches with a group of parameters, such as brightness, sharpness, hue, contrast, saturation and 3D denoise.

In the Mode call, users can set effect mode call status and call period.

Bas

ic setttins	Expose	e settings	Effect s	etttings	White balance	e Reset
						and the second s
						All C
	- Cart	1955	Elle.			
		-	1 and	B		A. M
		NATION -	130			>
						-
	Mode:	Auto		~		
3	Red gain:		4	24		
1	Blue gain:		*	26		

4.3.4 White Balance Settings

Figure 4-19 White Balance Settings

The camera has rich white balance modes, including Auto, Manual, Incandescent light, Cool white fluorescent light, Sun light, Cloudy and Natrium light. If set to manual mode, you can set the red gain and blue gain.

4.3.5 Reset

In the interface, you can restore all the camera parameters to the factory default settings.

4.4 Audio & Video Settings

Click the button Audio & Video in the navigation bar to display the following interface.



Figure 4-20 Video Settings

Click the related option tab to enter the setting interface.

4.4.1 Video Settings

Users can set the video parameters in the format of H.264 major or minor stream and MJPEG stream, such as resolution, frame rate and IP rate.

Resolution:

For H.264 major stream, the resolution of IP camera comes up to 1280×960 , with $1280 \times 720,720 \times 576,720 \times 480,640 \times 480$ optional; For H.264 minor stream, the resolution comes to $640 \times 480,352 \times 288,320 \times 240,176 \times 144$ and closed. For MJPEG stream, the resolution of comes to $1280 \times 960,1280 \times 720$ and closed

Frame Rate: the number of compressed frames produced by camera per second.

The bigger the frame is, the better the image continuity will be, but the CPU performance is lowered.

The smaller the frame is, the worse the image continuity will be, but the CPU could handle more events.

The maximum frame rate for H.264 is 30fps. The maximum frame rate for MJPEG is 3fps.

I/P Rate: I/P rate means the ratio of I frame to P frame in compressed video images.

The bigger the value is, the less the data quantity is and the less network resource it occupies.

Max. I/P rate can be set to 60.

Bitrate type: There are 2 modes of bit rate: variable rate (vbr) and constant rate (cbr).

The variable rate can adjust the bandwidth that it occupies automatically according to the complexity of image, because the complexity of real video sequence keeps changing, details, speed, etc, and the variable rate setting mode can be used to choose how much bandwidth should be used. If the video gets more details and moving fast, then it takes up more bandwidth to transmit, and reversely it occupies less bandwidth. When the setting goes with constant bit rate, then the image is transmitted under a constant bandwidth.

Bit Rate: You have to set the upper limit of bit rate if "vbr" is selected; the stream size will be fixed if "cbr" is selected and the stream size is defined in the "Bit Rate". For major stream, the bit rate upper limit can be 1000kbps~10000kbps; for minor stream, the bit rate upper limit can be 32Kbps~2000Kbps.

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4.4.2 Character display

Video	Character d	isplay	Motion detection	Privacy n	nask	Path	Audio
	Text 1:	O on	• off	X/Y(0-99):	2	2	
	Text 2: Content:	O on	• Off	X/Y(0-99):	0	0	
	Date&Time: Font size:	On 3 ♥	• Off	X/Y(0-99):	95	2	
					Sa	ive	

Figure 4-21 Character display

Character display settings include: Text charater and Date&Time charater.

The camera supports two charater text: Text 1, Text 2. You can switch which text on if you need .

Only if Text 1, Text 2 and Date&Time charater are set to "On", you can set the text content and the display position of text and date.

Context: Enter the text content in the box of Context, which allows up to 40 characters (lower/upper case letters and 0~9).

X-axis &Y-axis: The title axis location. Both X-axis and Y-axis can be any of whole numbers from 0 to 99.

Font Size: Set the font size to be displayed. The bigger the value is, the larger the font size is. Default as: 3.

After all settings finished, click "Save" button to display charater on the video. To cancel charater display, set it to "Off" and then click the button "Save".

4.4.3 Privacy Mask

IP camera supports 4 privacy masks. If there is certain location within the surveillance area where operators are not allowed to see, and thus, Privacy Mask can be applied. System covers and shields the sensitive area via Privacy Mask setting, to avoid operators observing certain sensitive locations on monitor.



Figure 4-22 Privacy Mask Settings

How to set the privacy masks:

Tick the box of motion detection area number. Click the button "Draw" with the mouse, press the left mouse button and drag on the video till a blue frame displays on the screen. Then, click the button "Save" with the left mouse button and the blue frame changes into black which indicates a successful setting. To cancel a privacy mask, just cancel the box ticking.

4.4.4 Motion Detection

/ideo	Character display	Motion detection	Privacy mask	Path	Audio
			2		
	- Alle	-			
	Zone 1: Dear	Nama: 1			
	Zone 1: Draw Sensitiv	Name: 1	(Most sensitive)	Save	Cancel
	Zone 1: Draw Sensitiv Zone 2: Draw Sensitiv	Name: 1 rity: • •	(Most sensitive)	Save	Cancel
	Zone 1: Draw Sensitiv Zone 2: Draw Sensitiv Zone 3: Draw	Name: 1 rity: Name: 2 rity: Name: 3	(Most sensitive)	Save	Cancel
	©Zone 1: Draw Sensitiv ⊠Zone 2: Draw Sensitiv ⊠Zone 3: Draw Sensitiv ⊇Zone 4: Draw	Name: 1 ity:	(Most sensitive)	Save Save Save	Cancel

Figure 4-23 Motion Detection Settings

IP camera support motion detection. Users can easily set the motion detection areas (up to 4) with the mouse.

Tick the box of Zone number to be set. If the motion detection area has been set, a blue frame will be displayed on the screen.

How to set the motion detection area:

Tick the box of motion detection area number. Click the button "Draw" with the mouse, press the left mouse button and drag on the video till a blue frame displays on the screen. Then, click the button "Save" with the left mouse button and the blue frame changes into green which indicates a successful setting. Besides, you can set the area name and sensitivity.

To cancel a motion detection area, just cancel the box ticking.

4.4.5 Path

You can set the photo saving path and recording saving path in the following interface.

Photo saving path: C:\IPC_PlayerAX\Pic	Browse
Format: .jpg 🗸	
Video saving path: C:\IPC_PlayerAX\Vid	Browse
Format: .avi 🗸	
	Save

Figure 4-24 Storage Path

Default photo saving path: C:\IPC_AX\Picture.

Default video saving path: C:\IPC_AX\Video.

Photo and video formats can also be set. The default photo format is .jpg and the default video format is .avi.

To change the saving path, click the button "Browse" and select the path from the popup dialog box.

4.4.6 Audio Settings

Switch:	On 🗸
SampleRate:	8K
Format:	G711-U 🗸
InputVolume:	Low V

Figure 4-25 Audio Settings

Switch: Set to "On" to enable audio, Set to "Off" to disable audio.

Sample Rate: 8K.

Format: G711-U,G711-A,PCM can be set according to the demand.

InputVolume: InputVolume is means the minimum sampling level of input audio and output audio volume, Options:Low,Middle,High. The higher the inputvolume is, the higher volume it will occupy.

4.5 PTZ Functions

No.: 1 T	Preset
Title: Save	No.: Title:
Set Call Delete	Set

Figure 4-26 PTZ Fuction

When the camera is working with Pan/Tilt, you can set camera address, baud rate and protocol in the interface. You can also set preset, autopan, and etc.

4.6 Alarm Settings

Click "Alarm" in the navigation bar to display the following Alarm Settings interface:

Alarm configuration							
I/O Input 1:	Groun	ded circu	it 🗸				
Alarm out cor	ntact: Local	contact	~				
Alarm server	1 IP: 0.0.0.0)					
Alarm server	2 IP: 0.0.0.0)					
Alarm server	3 IP: 0.0.0.0						
							Save
Alarm out relate							
	I/O out	Mail	SD card	FTP	тср	Select all	
I/O Input 1							
Motion area	1						
Motion area	2						
Motion area	3						
Motion area	4 🗆						
Alarm schedule							
	Sta	art time		E	nd time	e	
🗆 Sun.	00	: 00		2	3 : 5	9	
🗆 Mon.	00	: 00		2	3 : 5	9	
🗆 Tue.	00	: 00		2	3 : 5	9	
🗆 Wed.	00	: 00]	2	3 : 5	9	
🗌 Thu.	00	: 00		2	3 : 5	9	
🗆 Fri.	00	: 00]	2	3 : 5	9	
Sat.	00	: 00]	2	3 : 5	9	
Everyday	00	: 00		2	3 : 5	9	
							Save

Figure 4-27 Alarm Settings

Alarm Configuration

I/O Input 1: Settable 1-channel alarm inputs.

Each alarm input has 2 modes: Grounded Circuit or Open Circuit.

Alarmout Contact: used to set sending way of alarm.

Local Contact: I/O out1 is triggered by I/O alarm in, motion detection alarm. Default: Local Contact.

Net Contact: I/O out is controlled by the surveillance management software.

Note: This function needs to be supported by digital video surveillance

management software like HCMS. If Net Contact is selected, users have to set Alarm Server IP the same as the IP address of HCMS server. After related setting to HCMS finished, users can remotely control the relay via HCMS software. For detailed information, please refer to HCMS manual.

Alarm Server IP: used to set the IP address of alarm server. If alarm occurs, it will inform the alarm server.

Alarm out Relate

Users can set the relevant alarm response ways for I/O alarm in, motion detection alarm, Alarm output 1 (if Net Contact is selected, Alarm output 1 on the web page is unavailable), SD card, Mail, FTP or Audio. After setting completed, click "Save" button to take effect.

Note: when "FTP" or "Mail" is selected, you need to set FTP or SMTP parameters in Network Settings, refer to Section 4.3.2 or Section 4.3.3 for details.

Alarm Schedule

IP camera can set the effective alarm schedule. Select the alarm period (if Sunday is selected, alarm will be enabled during the set period of each Sunday; if everyday is selected, alarm will be enabled during the set period of everyday), and then, set the time period. Enter the start time and end time in the 24-hour format. The end time must be larger than the start time.

4.7 Record Management

IP cameras support storage with SD card. In the Record Management interface, you can set the recording parameters, replay and download the recorded videos.

4.7.1 Record Settings

Recording Control					
SD card full: Manual recording c Auto-record while r	ontrol: network is a	ibnormal:	 Overwrite Start Start Start 	○ Stop ● Stop ○ Stop	
Peripheral equipment ma	nagement				
SD Card status:	State: Occupied space:	Mounted 6.42GB	write-protect: Total size:	Off 7.39GB	
SD card operation:	Demount		Format		

Figure 4-28 Record Settings

SD card when full: Overwrite or Stop. Overwrite means newly recorded videos automatically overwrite the previous videos when the SD card is full; Stop means recording stops when the SD card is full.

Manual recording control: If Start is selected, recording is automatically start, and select stop to stop.

You can view the total size, used space and state of SD card and also format it.

To remove SD Card when it is being used, please click "Demount".

4.7.2 Replay



Figure 4-29 Replay

Video Search: set the start and end time, and then click the search button. All videos recorded during this period of time will display in the list.



4-30Searching Videos

Replay: to replay a video, double click a file in the list with the mouse or select a file and then press the "Play" button . During playing, click iii or to pause or stop playing.

Download: You can download the videos stored in the SD card to your PC. Select the file from the video list (also you can select multiple files simultaneously using the key "Ctrl" or "Shift"), and then click the button "Download" to enter the downloading interface.

wnload				
Save to: C:\UPC_PlayerAX\Download			Browse	Open
Period	Status	Total Size	Process	Start
2014-10-01 03:48:17> 2014-10-01 03:58:18	Waiting		0%	
				Cancel
				AVI

Figure 4-31 Downloading Videos

Save to: Set the path to save the downloaded files. If resetting required, click the button "Browse".

AVI/H.264 drop-down list box: select the downloaded file attribute.

In the download list, file total size, status and process will display.

Click the button "Start", and then the files in the list will be downloaded in order. The process shows 100% after downloading is finished.

Click the button "Open" to enter download content.

4.8 User Management

The default super user is admin (password: admin). Super user can add, delete common user, and change the password of common users. Super user cannot change his own password. A maximum of 7 common users are supported.

Detailed instruction about how to add and delete user are addressed below.

Click the Account option tab in the Settings interface, the following account information will display. The "Num" item shows the current user number. In "Property" column, estands for super user; stands for common user. In "Operation" column, means to delete; means to edit user information. See figure below:

			Add user 🔒
Num	User name	Property	Operation
1	admin	<u>R</u>	2

Figure 4-32 Account Settings

1. Add Users

(1) Click "Add user ^{Add}, enter the interface of "Add a User".

User name: Password: Password confirm:	
ОК	Cancel

Figure 4-33 Add a User

(2) Enter the desired User Name and Password (Note: User name and password shall include letter, number and underline only. No special character is allowed. The string length of user name is legal between 1 and 30 characters and that of password is between 8 and 20 characters.)

(3) Click "OK" button. If the setting is successful, the new user name will appear in the account list. Take new user "user" as an example:

			Add user 🔂
Num	User name	Property	Operation
1	admin	ß	
2	user	8	2



2. Delete Users

In the "Account setting" interface, click button of the "Operation" item to delete user. The following dialog box will display:



Figure 4-35

Click "OK" button, the selected user would be deleted and the account list would be automatically updated.

3. User Password Change

Click \blacksquare button in the account list, the dialog box of Edit User Information will pop up:

User name:		user		_
Old password	:			
New password	d:			_
Confirm passy	word:			_
(NK		Cancel	

Figure 4-36

Input the old password, enter the desired new password for twice and then click "OK" button, the following picture will appear:



Figure 4-37

4.9 System Log

Click the "Log" option tab, the date, time and log information will appear on the right of the screen.

Date	Time	Log				
2014 - 11 - 13	09:28:59	last message repeated 3 times				
2014 - 11 - 13	09:28:28	p: Get a motion alarm.				
2014 - 11 - 13	09:27:43	app: Get a motion alarm.				
2014 - 11 - 13	09:27:35	app: change IP to 192.168.1.18				
2014 - 11 - 13	08:53:13	last message repeated 3 times				
2014 - 11 - 13	08:52:48	app: Get a motion alarm.				
2014 - 11 - 13	08:47:44	app: Get a motion alarm.				
2014 - 11 - 13	08:46:32	app: Get a motion alarm.				
2014 - 11 - 13	08:45:37	last message repeated 4 times				
	1 4 4	Page 1 of 3 膨 🔊 Goto 🛛 💙 🥥 Delete logs				

Figure 4-38

It can display 30 logs on a page. The user can turn over the pages or skip to the desired page by clicking the below arrows. Click "Delete logs", a prompt will come out. Then, click "Yes" to clear logs.