

XP3000B

HD IR Waterproof Fixed IP Camera User's Manual

Welcome

Thank you for purchasing our IP camera!

This user's manual is designed to be a reference tool for your system.

Please read the following safeguard and warnings carefully before you use this series product!

Please keep this user's manual well for future reference!

Important Safeguards and Warnings

1. Electrical safety

All installation and operation here should conform to your local electrical safety codes.

The power shall conform to the requirement in the SELV (Safety Extra Low Voltage) and the Limited power source is rated 12V DC or 24V AC in the IEC60950-1.

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

We are not liable for any problems caused by unauthorized modification or attempted repair.

2. Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3. Installation

Do not apply power to the camera before completing installation.

Please install the proper power cut-off device during the installation connection.

Always follow the instruction guide the manufacturer recommended.

4. Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

5. Environment

This series IP camera should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.

Please keep it away from the electromagnetic radiation object and environment.

Please make sure the CCD (CMOS) component is out of the radiation of the laser beam device.

Otherwise it may result in CCD (CMOS) optical component damage.

Please keep the sound ventilation.

Do not allow the water and other liquid falling into the camera.

6. Daily Maintenance

Please shut down the device and then unplug the power cable before you begin daily maintenance work.

Do not touch the CCD (CMOS) optic component. You can use the blower to clean the dust on the lens surface.

Always use the dry soft cloth to clean the device. If there is too much dust, please use the water to dilute the mild detergent first and then use it to clean the device. Finally use the dry cloth to clean the device.

Please put the dustproof cap to protect the CCD (CMOS) component when you do not use the camera.

7. Accessories

Be sure to use all the accessories recommended by manufacturer.

Before installation, please open the package and check all the components are included.

Contact your local retailer ASAP if something is broken in your package.

Accessory Name	Amount
Unit	1
Quick Start Guide	1
CD	1

Table of Contents

1	Gener	ral Introduction	1
	1.1	Overview	1
	1.2	Features	1
	1.3	Specifications	2
	=	1.3.1 Performance 1.3.2 Factory Default Setup	
2	Struct	ture	11
	2.1	Multiple-function Combination Cable	11
	2.2	Framework and Dimension	12
	2.3	Bidirectional talk	13
	_	2.3.1 Device-end to PC-end2.3.2 PC-end to the device-end	
	2.4	Alarm Setup	13
3	Device	e Installation	15
4	Quick	Configuration Tool	16
	4.1	Overview	16
	4.2	Operation	16
5	Web 0	Operation	19
	5.1	Network Connection	19
	5.2	Login and Logout	19
6	FAQ		22
Αp	pendix	Toxic or Hazardous Materials or Elements	23

1 General Introduction

1.1 Overview

This series IP camera integrates the traditional camera and network video technology. It adopts audio and video data collection, transmission together. It can connect to the network directly without any auxiliary device.

This XP3000B uses standard H.264 video compression technology and G.711a audio compression technology, which maximally guarantee the audio and video quality.

It supports the IR night vision function. In the night environments, the device can use the IR light to highlight the object which is suitable for the surveillance function in the low illumination environments. The built-in protection enclosure and waterproof design conforms to the IP 66 level. It has the sound waterproof function suitable for use in the outdoor environments.

It supports real-time monitor and listening at the same time. It supports analog video output and dual-way bidirectional talk.

It can be used alone or used in a network area. When it is used lonely, you can connect it to the network and then use a network client-end. Due to its multiple functions and various uses, the XP3000B is widely used in many environments such office, bank, road monitor and etc.

1.2 Features

User Management	 Different user rights for each group, one user belongs to one group. The user right shall not exceed the group right.
Storage Function	 Support central server backup function in accordance with your configuration and setup in alarm or schedule setting Support record via Web and the recorded file are storage in the client-end PC. Support built-in SD card. Do not support local SD card hot swap storage function. Support short-time storage when encounter disconnection. Support network storage function such as FTP.
Alarm Function	 Real-time respond to external on-off alarm input, and video detect as user pre-defined activation setup and generate corresponding message in screen and audio prompt(allow user to pre-record audio file) Real-time video detect: motion detect, camera masking.
Network Monitor	 IPC supports one-channel audio/video data transmit to network terminal and then decode. Delay is within 270ms (network bandwidth support needed) Max supports 20 connections. Adopt the following audio and video transmission proto∞l: HTTP, TCP, UDP, MULTICAST, RTP/RTCP, RTSP and etc. Support web access.
Network Management	 Realize IPC configuration and management via Ethernet. Support device management via web or client-end.
Power	 External power adapter DC12V/AC 24V. You can select according to your actual environments. Please note system can not support these two types of power supplying at the same time.
Assistant Function	 Log function Support system resource information and running status real-time display.

- Day/Night mode auto switch.
- Built-in IR light. Support IR night vision.
- Support picture parameter setup such as electronic shutter and gain setup.
- Backlight compensation: screen auto split to realize backlight compensation to adjust the bright.
- Support video watermark function to avoid vicious video modification.
- The enclosure conforms to the IP 66 protection. Has the waterproof function.

1.3 Specifications

1.3.1 Performance

Please refer to the following sheet for IPC performance specification.

Parame	lodel ter	XP3000B Series
ဟ	Main Processor	TI Davinci high performance DSP
System	OS	Embedded LINUX
em	System Resources	Support real-time network, local record, and remote operation at the same time.
	User Interface	Remote operation interface such as WEB, DSS, PSS
	System Status	SD card status, bit stream statistics, log, and software version.
≤	Image Sensor	1/2.8-inch CMOS
Video Parameter	Pixel	2048(H)*1536(V)
D	Day/Night Mode	Support day/night mode switch and IR-CUT at the same time.
ara	Auto Aperture	DC drive
me	Gain Control	Fixed/Auto
ter	White Balance	Manual/Auto
	Exposure Mode	Auto/Low noise/Low motion blur/Defend flicker /Manual PAL: It ranges from 1/3 to 1/10000 NTSC: It ranges from 1/4 to 1/10000
	Video Compression Standard	H264/H264B/MJPEG
	Video Frame Rate	PAL: Main stream (2048*1536@15fps) , extra stream, (704*576@15fps) Main stream (1920*1080@25fps) , extra stream (704*576@25fps) NTSC: Main stream (2048*1536@15fps) , extra stream (704*480@15fps) Main stream (2048*1536@15fps) , extra stream (704*480@15fps)
	Video Bit Rate	Main stream (1920*1080@30fps), extra stream (704*480@30fps) H264/H264B/MJPEG
Video Flip Snapshot		
		Support mirror and flip function. May 1f/s spanshot File oylonsion name is IPEG
		Max 1f/s snapshot. File extension name is JPEG.
	Privacy Mask	Supports max 4 privacy mask zones
	Video Setup	Support parameter setup such as bright, contrast.
	Video	Channel title, time title, motion detect, camera masking.

	Information			
	Lens	8~16mm @F1.6		
	Lens Interface	C/CS. Lens is the default accessories		
	Audio Input	1-channel, LINE IN		
Audio	Audio Output	1-channel, 3.5mm JACK SPEAK OUT.		
Ö	Bidirectional Talk Input	Reuse the first audio input channel		
	Audio Bit Rate	16kbps 16BIT		
	Audio Compression Standard	G.711a/G.711u/PCM		
Video	Motion Detect	396 (18*22) detection zones; sensitivity level ranges from 1 to 6 (The 6 th level has the highest sensitivity) Activation event, alarm device, audio/video storage, image snapshot, log, email SMTP function and etc.		
Alarm I	nput	2-channel input, 1-channel output		
Record and Backup	Record Priority	Manual>External alarm >Video detect>Schedule		
cup Tup	Local Storage	Support Micro SD card hot swap		
and	Storage Management	Support display local storage status		
Network	Wire Network Network Protocol	1-channel wire Ethernet port, 10/100 Base-T Ethernet Standard HTTP, TCP/IP, ARP, IGMP, ICMP, RTSP, RTP,UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, UPNP, NTP, Bonjour, SNMP.		
ᅔ	Remote Operation	Monitor, system setup, file download, log information, maintenance, upgrade and etc		
Φ =	Video Output	1-channel analog video output, BNC port, 9-pin port connection		
AUX Interfac e	Reset	9-pin port connection		
fac	IR light	42 LED, IR distance 20 to 30 meters. 70 LED, IR distance 30 to 50 meters.		
Gene	Power	Support AC24V/DC12V power.		
ral	Power	For –IR2 device: 8W MAX (10W MAX when ICR switch)		
General Parameter	Consumption Working Temperature	For –IR4 device:10W MAX (12W MAX when ICR switch) -10°C~+60°C		
neter	Working Humidify	10%~90%		
	Dimensions(mm)	288×118×101		
	Weight	2468G (Excluding box)		
	Installation	Support various installation modes (Bracket is optional)		

1.3.2 Factory Default Setup

Please refer to the following sheet for factory default setup information.

Setup Conditions Camera					XP3000BSeries 50 50
Camera	Conditions	Contrast Hue Saturatio Gain Mod			
mera mera	nditions -	Hue Saturatio Gain Mod			50
ra lions		Saturatio	on .		
		Gain Mod	n		50
	 - -				50
	=		Gain Mode		Auto
	-	Gain Lim	Gain Limit		80
		Exposure	e Mode		Auto
	<u> </u>	Auto Iris			On
		Scene M	ode		Auto
		Day/nigh	t Mode		Auto
		BLC			Off
		Mirror			Off
		Flip			Off
Video	Vide:	Video		Bit stream type	General
	اد	Video bit stream	Main Stream	Encode mode	H.264
		ream		Resolution	1080P (1920*1080)
				Frame	PAL: 25
				Rate (FPS)	NTSC:30
				Bit Rate Type	CBR
				Recomme nded Bit	3584-6144 Kb/S
				Bit Rate	6144
				I Frame	50
				Watermark	Enable
				Watermark character	DigitalCCTV
				Enable	Enable
			Sub Stream	Bit stream type	General
				Encode mode	H.264B
				Resolution	CIF(352*288/352*240)
				Frame Rate (FPS)	PAL: 25 NTSC:30

Set	au	Item			Default Setup
					XP3000BSeries
				Bit Rate Type	CBR
				Recomme nded Bit	192-1024Kb/S
				Bit Rate	1024
				I Frame	50
				Snapshot Type	General
		Snapsho	ot	lmage Size	1080P (1920*1080)
				Quality	5
				Interval	1s
				Privacy Mask	Disable
		Video Ov	verlay	Channel Title	Enable
				Time Title	Enable
		D-4h	Snapshot Path	C:\PictureDownload	
		Path		Record Path	C:\RecordDownload
	٦A			Enable	Enable
	Audio	Main Stream		Encode Mode	G.711A
		Sub Stream		Enable	Disable
				Encode Mode	G.711A
-	ylowtal			Host Name	IPC
2)ork			Ethernet Card	Wire(Default)
				Mode	Static
				Mac Address	Device MAC address when it is shipped out of the factory
				IP Version	IPV4
		TCP/IP		IP Address	192.168.1.108
				Subnet Mask	255.255.255.0
			Default Gateway	192.168.1.1	
				Preferred DNS	8.8.8.8
				Alternate DNS	8.8.8.8

Setup	Item		Default Setup
•			XP3000BSeries
		Enable ARP/Ping set device IP address	Enable
		Max Connectio n	10
		TCP Port	37777
		UDP Port	37778
	Connection	HTTP Port	80
		RTSP Port	554
		HTTPs Port	443
		Enable	Disable
	PPPoE	Username	N/A
		Password	N/A
		Server Type	Disable, CN99 DDNS
		Server IP	none
	DDNS	Server Port	80
		Domain Name	none
		User	none
		Password	***
		Update Period	10 minutes
	IP Filter	Trusted sites	Disable
		SMTP Server	none
		Port	25
	ON 117775	Anonymity	Disable
	SMIT(Email)	User Name	anonymity
		Password	****
		Sender	none

Setup	Item		Default Setup
-31.5P			XP3000BSeries
		Authentica tion (Encryptio n mode)	N/A
		Title (Subject)	IPC Message
		Attachmen t	Enable
		Mail Receiver	N/A
		Send Interval	0 second
		Email Test	Disable, interval=60 minutes
	UPnP	Enable UPnP	Disable
		SNMP v1	Disable
		SNMP v2	Disable
	SNMP	SNMP Port	161
		Read Communit y	public
		Write Communit y	private
		Trap Address	N/A
		Trap Port	162
		SNMP v3	Disable
	Bonjour	Enable	Enable
		Server Name	"SN". It depends on the device.
	Multicast	Multicast Address	239.255.42.42
		Port	36666
	QoS	Real-time Monitor	0
		Command	0
		Wireless QoS	Enable

Setup	Item			Default Setup
Setup	iteiii			XP3000BSeries
m V	Video detect		Enable	Disable
Event			Anti-dither	5 seconds
	det		Sensitivity	3
	ect		Record Channel	Enable
		Motion Detect	Record Delay	10 seconds
		Dotoot	Relay out	Enable
			Alarm Delay	10 seconds
			Send Email	Disable
			Snapshot	Disable
			Enable	Disable
			Record Channel	Enable
			Record Delay	10 seconds
		Video Masking	Relay out	Enable
			Record Delay	10 seconds
			Send Email	Disable
			Snapshot	Disable
	Alarm		Enable	Disable
			Relay in	Alarm 1
			Anti-dither	5 seconds
			Sensor Type	NO
			Record Channel	Enable
		Alarm Activation	Record Delay	10 seconds
			Relay out	Enable
			Alarm Delay	10 seconds
			Send Email	Disable
			Snapshot	Disable
		Relay outpu	t	1
	ĄŁ		Enable	Disable
	nor	Abnormity Card	Relay out	Enable
	mity		Relay out Delay	10 seconds
			Send	Disable

Setup	Item			Default Setup
octup				XP3000BSeries
			email	
			Enable	Disable
			Capacity Limit	10%
		Capacity	Relay out	Enable
		Warning	Relay out Delay	10 seconds
			Send Email	Disable
			Enable	Disable
			Relay out	Enable
		SD Card Error	Relay out Delay	10 seconds
			Send email	Disable
			Enable	Disable
			Record	Enable
		Disconnect ion	Record Delay	10 seconds
			Relay out	Enable
			Relay out Delay	10 seconds
		IP Conflict	Enable	Disable
			Record	Enable
			Record Delay	10 seconds
			Relay out	Enable
			Relay out Delay	10 seconds
Storage	Storage	?	Enable FTP	Disable
age	age		Server IP	N/A
			Port	21
		FTP	Username	anonymous
			Password	N/A
			Remote path	share
			Emergenc y (Local)	Disable
	Pack Duration		Pack Duration	8 minutes
	Door	rd Control	Pre-record	5 seconds
	Keco	rd Control	Disk Full	Overwrite
		Rec Mod		Auto

Setup	Item			Default Setup XP3000BSeries
			Record Stream	Main Stream
့တွ	G		Device No	Device factory SN
System	Genera	Local Host	Language	English
) B	<u>a</u>	Locarrost	Video Standard	PAL
			Date Format	Y-M-D
			Time Format	24H
			Time Zone	GMT+08:00
		Date and time	System Time	Sync
			DST	Disable
			DST Type	Week
			Start Time	00:00:00 of the first Sunday of the month
			End Time	00:00:00 of the second Monday of the month
			NTP	Disable
			NTP Server	clock.isc.org
			Port	37
			Update Period	10 minutes
	Auto	1	Auto Reboot	Enable
		enance	Auto Delete Old Files	Disable

2 Structure

2.1 Multiple-function Combination Cable

You can refer to the following figure for multiple-function combination cable information. See Figure 2-1.

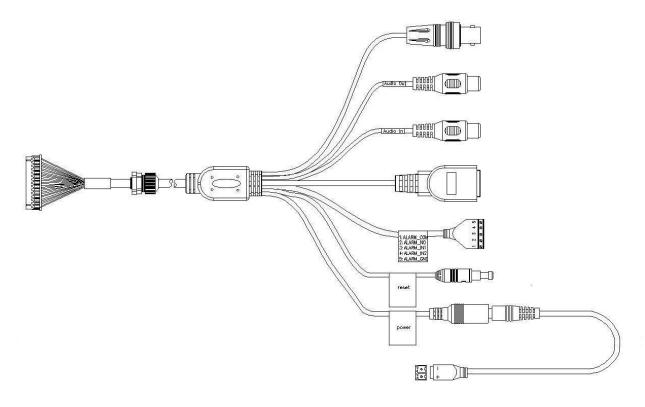


Figure 2-1
Please refer to the following sheet for detailed information.

Port Name	Function	Connection	Note		
VIDEO OUT	Video output port	BNC	Output analog video signal. It can connect to the TV monitor to view the video.		
AUDIO IN	Audio input port	RCA	Input audio signal. It can receive the analog audi signal from the pickup.		
AUDIO OUT	Audio output port	RCA	Output audio signal to the devices such as the sound box.		
LAN	Network port	Ethernet port	Connect to standard Ethernet cable.Support PoE.		
I/O	I/O cable port	/	Includes alarm input and output.		
RESET	Reset button	/	The reset button is to restore device factory defa setup.		

Port Name	Function	Connection	Note	
POWER	Power input port	/	Power port. Input DC 12V or AC 24V. Please note: Connect the DC5.5 round port to 2-pin converter cable (Provided) when you are using AC 24V series product. The DC5.5 round port to 2-pin converter cable is not included in the accessories bag if you are using DC 12V series product.	

Please refer to the follow sheet for detailed pin information

Port Name	SN	Name	Note		
I/O Port	1	ALARM_COM	Alarm output public port.		
	2	ALARM_NO	Alarm output port. It is to output the alarm signal to the alarm device. NO: normal open alarm output port.		
	3	ALARM_IN1	Alarm input port 1. It is to receive the on-off sign from the external alarm source.		
	4	ALARM_IN2	Alarm input port 2. It is to receive the on-off signation from the external alarm source.		
	5	GND	Ground port		

2.2 Framework and Dimension

Please refer to the following two figures for dimension information. The unit is mm. See Figure 2-2 and Figure 2-3.

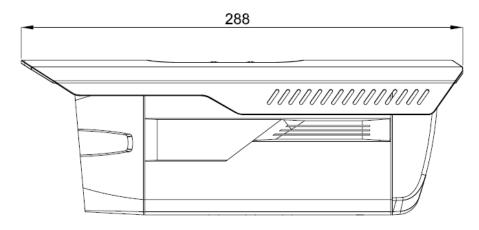


Figure 2-2

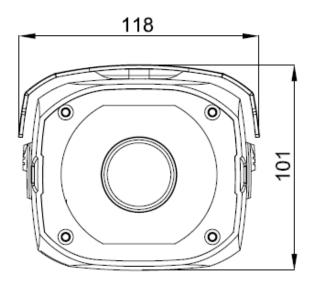


Figure 2-3

2.3 Bidirectional talk

2.3.1 Device-end to PC-end

Device Connection

Please connect the speaker or the pickup to the first audio input port in the device rear panel. Then connect the earphone or the sound box to the audio output port in the PC.

Login the Web and then enable the corresponding channel real-time monitor.

Listening Operation

At the device end, speak via the speaker or the pickup, and then you can get the audio from the earphone or sound box at the pc-end.

2.3.2 PC-end to the device-end

Device Connection

Connect the speaker or the pickup to the audio output port in the PC and then connect the earphone or the sound box to the first audio input port in the device rear panel.

Login the Web and then enable the corresponding channel real-time monitor.

Listening Operation

At the PC-end, speak via the speaker or the pickup, and then you can get the audio from the earphone or sound box at the device-end.

2.4 Alarm Setup

The alarm interface is shown as in Figure 2-4. Please follow the steps listed below for local alarm input and output connection.

- 1) Connect the alarm input device to the alarm input port (No.3 pin or No.4 pin) of the I/O cable.
- 2) Connect the alarm output device to the alarm output port (No.2 pin) and alarm output public port (No.1 pin). The alarm output port supports NO (normal open) alarm device only.
- 3) Open the Web, go to the Figure 2-4. Please set the alarm input 01 port for the first channel of the I/O cable (No.3 pin). The alarm input 02 is for the 2nd channel of I/O cable (No.4 pin). Then you can select the corresponding type (NO/NC.)

4) Set the WEB alarm output. The alarm output 01 is for the alarm output port of the device. It is the No.2 pin of the I/O cable.



Figure 2-4

Please refer to the following figure for alarm input information. See Figure 2-5.

Alarm input: When the input signal is idle or grounded, the device can collect the different statuses of the alarm input port. When the input signal is connected to the 5V or is idle, the device collects the logic "1". When the input signal is grounded, the device collects the logic "0".

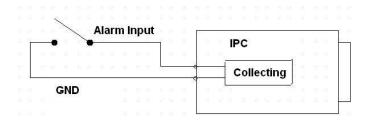


Figure 2-5

Please refer to the following figure for alarm output information. See Figure 2-6.

Port NO and Port C composes an on-off button to provide the alarm output.

If the type is NO, this button is normal open. The button becomes on when there is an alarm output. If the type is NC, this button is normal off. The button becomes off when there is an alarm output.

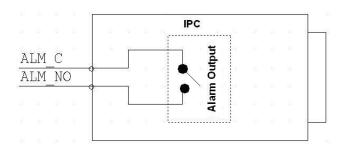


Figure 2-6

3 Device Installation

Please follow the steps listed below to install the device. Please refer to Figure 3-1 for reference.

- Please line up the installation holes of the bottom of the device to the installation holes in the front part of the bracket. Then insert the screws to the holes to fasten the device on the bracket.
- Dig four holes in the wall or the surface, and then input the expansion bolts to the holes and secure
- Put the four fixed holes of the bottom of the bracket to the four holes you just dug in the wall or surface. Put the four fixed screws to the four holes of the bracket and then secure firmly.
 Finally you can fix the bracket in the wall or surface.

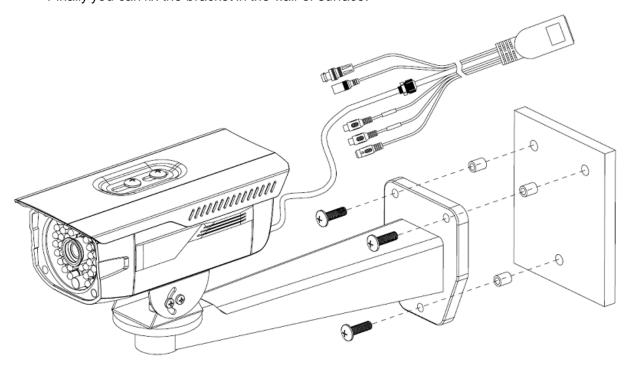


Figure 3-1

4 Quick Configuration Tool

4.1 Overview

Quick configuration tool can search current IP address, modify IP address. At the same time, you can use it to upgrade the device.

Please note the tool only applies to the IP addresses in the same segment.

4.2 Operation

Double click the "ConfigTools.exe" icon, you can see an interface is shown as in Figure 4-1. In the device list interface, you can view device IP address, port number, subnet mask, default gateway, MAC address and etc.

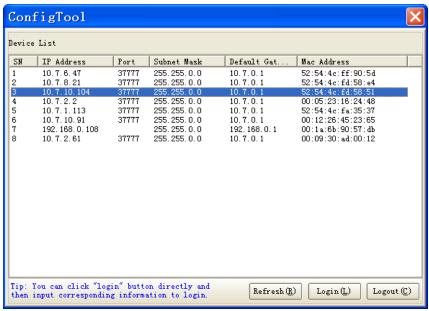


Figure 4-1

Select one IP address and then right click mouse, you can see an interface is shown as in Figure 4-2.

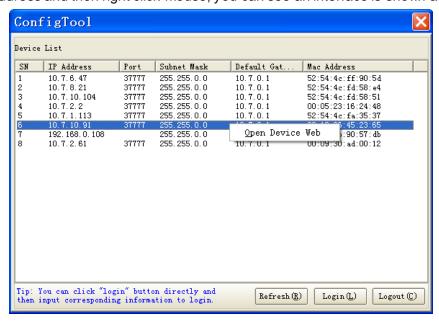


Figure 4-2

Select the "Open Device Web" item; you can go to the corresponding web login interface. See Figure 4-3.

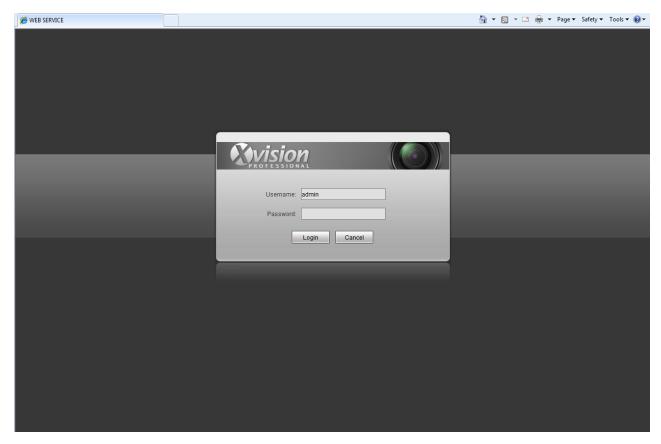


Figure 4-3

If you want to modify the device IP address without logging in the device web interface, you can go to the configuration tool main interface to set.

In the configuration tool search interface (Figure 4-1), please select a device IP address and then double click it to open the login interface. Or you can select an IP address and then click the Login button to go to the login interface. See Figure 4-4.

In Figure 4-4, you can view device IP address, user name, password and port. Please modify the corresponding information to login.

Please note the port information here shall be identical with the port value you set in TCP port in Web Network interface. Otherwise, you can not login the device.

If you are use device background upgrade port 3800 to login, other setups are all invalid.

Login	X
IP Address: User Name:	10.10.3.16
Password:	*****
Port:	Login Cancel

Figure 4-4

After you logged in, the configuration tool main interface is shown as below. See Figure 4-5.

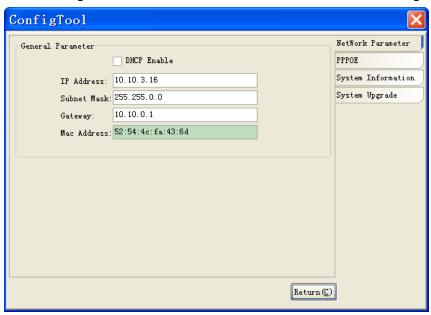


Figure 4-5

5 Web Operation

This series XP3000B product support the Web access and management via PC.

Web includes several modules: monitor channel preview, system configuration, alarm and etc.

5.1 Network Connection

Please follow the steps listed below for network connection.

- Make sure the IPC has connected to the network properly.
- Please set the IP address, subnet mask and gateway of the PC and the IPC respectively. IPC default IP address is 192.168.1.108. Subnet mask is 255.255.255.0. Gateway is 192.168.1.1
- Use order ping ***.***.***(* IP camera address) to check connection is OK or not.

5.2 Login and Logout

Open IE and input IP camera address in the address bar.

For example, if your camera IP is 192.168.1.108, then please input http:// 192.168.1.108 in IE address bar. See Figure 5-1.

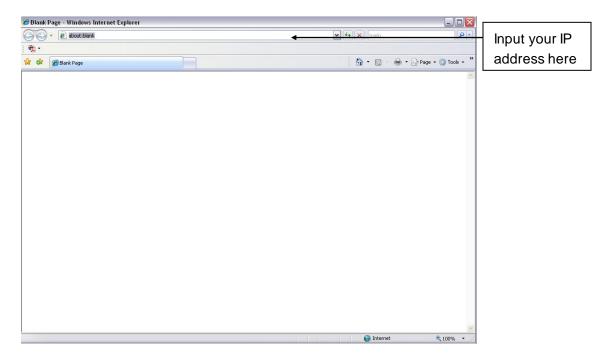


Figure 5-1

The login interface is shown as below. See Figure 5-2.

Please input your user name and password.

Default factory name is admin and password is admin.

Note: For security reasons, please modify your password after you first login.

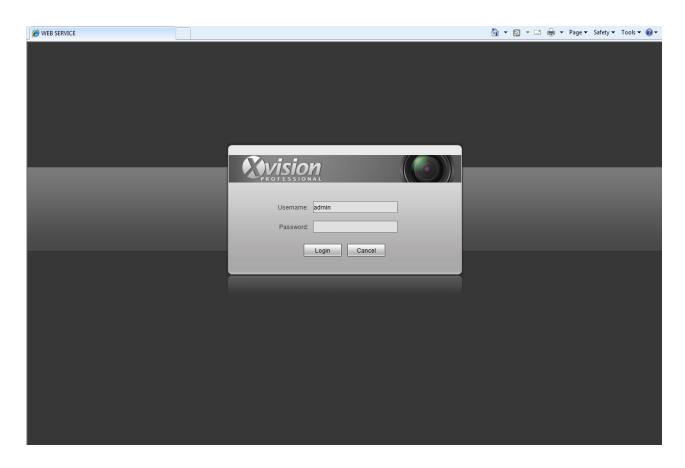
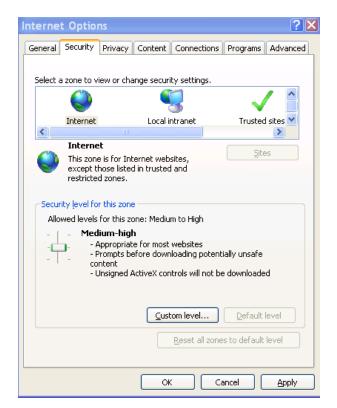


Figure 5-2

If it is your first time to login in, system pops up warning information to ask you whether install control webrec.cab or not after you logged in for one minute. Please click OK button, system can automatically install the control. When system is upgrading, it can overwrite the previous Web too. If you can't download the ActiveX file, please check whether you have installed the plug-in to disable the control download. Or you can lower the IE security level. See Figure 5-3.



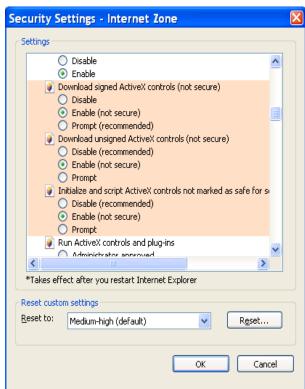
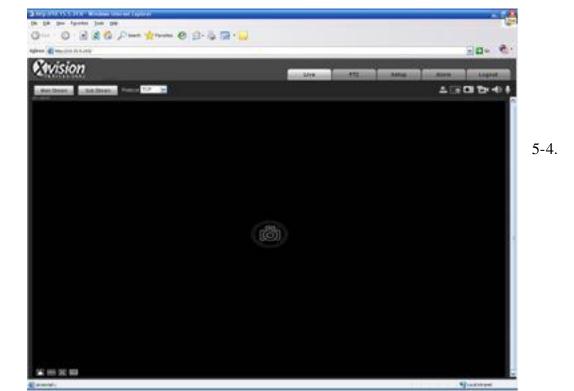


Figure 5-3

After you logged in, you can see the main window. See



Figure

Figure 5-4

Please refer to the Web Operation Manual included in the resource CD for detailed operation instruction.

6 FAQ

Bug			
I can not boot up the device.	Please click RESET button for at least five seconds to restore factory default setup.		
SD card write times	Do not set the SD card as the storage media to storage the schedule record file. It may damage the SD card duration.		
I can not use the disk as the storage media.	When disk information is shown as hibernation or capacity is 0, please format it first (Via Web).		
I can not upgrade the device via network.	When network upgrade operation failed, you can use port 3800 to continue upgrade.		
Recommended SD card brand	Kingston 4GB, Kingston 1GB, Kingston 16GB, Transcend 16GB, SanDisk 1G, SanDisk 4G		
	Usually we recommend the 4GB (or higher) high speed card in case the slow speed results in data loss.		
Audio function	Please use active device for the audio monitor input, otherwise there is no audio in the client-end.		
To guarantee setup update	After you modified the important setup, please reboot the device via the software to make sure the setup has been updated to the storage medium.		
Power adapter	The power adapter included in the accessories bag can work ranging from 0° C to 40° C. The device may result in unstable power supply when the temperature exceeds the working temperature. Please replace an industry-level power adapter if you are using in the harsh environments.		

Appendix Toxic or Hazardous Materials or Elements

Component Name	Toxic or Hazardous Materials or Elements						
	Pb	Hg	Cd	Cr VI	PBB	PBDE	
Circuit Board Component	0	0	0	0	0	0	
Device Construction Material	0	0	0	0	0	0	
Wire and Cable	0	0	0	0	0	0	
Packing Components	0	0	0	0	0	0	
Accessories	0	0	0	0	0	0	

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

Note

- This user's manual is for reference only. Slight difference may be found in user interface.
- All the designs and software here are subject to change without prior written notice.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.