

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.

Before you replace the SD card, please unplug the power cable and then remove the shell

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 . Installation

Do not apply power to the IP camera before completing installation.

Do not put object on the IP camera.

3. Environment

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

The working temperature ranges from -10 $^{\circ}$ C to +60 $^{\circ}$ C. Please keep it away from the electromagnetic radiation object and environment.

Please keep the sound ventilation.

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

Thunder-proof device is recommended to be adopted to better prevent thunder.

The grounding studs of the product are recommended to be grounded to further enhance the reliability of the camera.

4. Daily Maintenance

Current series IPC has no power button. Please unplug all corresponding power cables before your installation.

Do not touch the CCD or CMOS part; you can use the blower to clean the dust on the surface of the lens. You can use the dry cloth with some alcohol to clear if necessary.

Please keep the dustproof cap back to protect the CCD or CMOS part if the IP camera does not work for a long time.

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

5. Accessories

Please open the accessory bag to check the items one by one in accordance with the list below. Contact your local retailer ASAP if something is missing or damaged in the bag.

Accessory Name	Amount
IPC Unit	1
C/CS adapter	1

Quick Guide	Start	•	1
CD			1

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1 General Introduction

1.1 Overview

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

This series IPC uses standard H.264 video compression technology and PCM, G.711a/u audio compression technology, which maximally guarantees the audio and video quality.

This series IPC has mega pixel resolution and supports 12V DC/24V AC power. It supports the wireless network application, bidirectional talk, digital water mark and etc.

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 high definition, multiple functions and various applications, this series IPC is widely used in many indoor environments and other important area surveillance.

1.2 Feature

User Management	 Different user rights for each group, one user belongs to one group. The user right can not exceed the group right.
Data Transmission	 Support cable network data transmission via Ethernet Wireless device supports WIFI/3G wireless data transmission.
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 local SD card hot swap. Support short-time storage when encounter disconnection. Support network storage such as FTP.
Alarm Function	 Real-time respond to external on-off alarm input, and video detect as user predefined 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 protocol: 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. Support various network protocols.
Peripheral Equipment	 Support peripheral equipment connection via the RS232 port, each peripheral equipment control protocol and interface can be set freely. Support serial port (RS232/RS485) transparent data transmission. Support the on-off alarm device to alarm via the sound or the light.
Power	External power adapter. Support DC 12V/AC 24V power supply.
PoE	 Support Power over Ethernet (PoE). Conform to the IEEE802.3af standard. Connect the device to the switcher or the router that supports the PoE function to

	realize the network power supply. To guarantee proper performance, please make sure the power sourcing device
	can supply at least 10W power.
	 Usually, do not use the PoE for the WIFI/3G device.
	Day/Night mode auto switch (ICR switch.)
	 Backlight compensation: screen auto split to realize backlight compensation to adjust the bright.
Assistant	 Support system resource information and running status real-time display. Support log function.
Function	Support video watermark function to avoid vicious video modification.
	Support auto aperture.
	 Support picture parameter setup such as electronic shutter and gain setup.
	Support dual-stream, ACF(Active frame control)

1.3 Specifications

1.3.1 Performance

Please refer to the following sheet for IPC performance specification.

Model Parameter		IP67!9@AD Series				
System	Main Processor	TI Davinci high performance DSP				
ten	os	Embedded LINUX				
-	System Resources	Support real-time network, local record, and remote operation at the same time.				
	User Interface	Remote operation interface such as WEB, DSS, I	PSS			
	System Status	SD card status, bit stream statistics, log, and soft	ware version.			
Vide	Image Sensor	1/2.8-inch CMOS				
юРа	Pixel	2080(H)*155 3(V)				
Video Parameter	Day/Night Mode	Support day/night mode switch and IR-CUT at the same time.				
ter	Auto Aperture	Optional				
	Gain Control	Fixed/Auto				
	White Balance	On/off				
	BLC	On/off				
	Electronic Shutter	Manual/Auto PAL: It ranges from 1/3 to 1/10000. NTSC: It ranges from 1/4 to 1/10000.	Manual/Auto PAL: It ranges from 1/3 to 1/100000. NTSC: It ranges from 1/3 to 1/100000.			
	Video Compression Standard	H.264/H.264B/MJPEG				

		PAL: Main stream (2560*1920 @8fps) Extra stream(704*5 76@8fps) Main stream (1920*1080	PAL: Main stream (2048*1536 @15fps) Extra stream(704*5 76@15fps) Main stream (1920*1080	PAL: Main stream (1920*1080 @25fps) extra stream (704*576 @25fps)	PAL: Main stream (1280*960 @25fps), extra stream, (704*576@ 25fps)	PAL: Main stream (1280*960 @12.5fps) , extra stream, (704*576@ 12.5fps)		
	Video Frame Rate	@25fps) Extra stream (704*576@2 5fps)	@25fps) Extra stream (704*576@2 5fps)			Main stream (1280*720 @25fps) , extra stream (704*576@2 5fps)		
		NTSC: Main stream (2560*1920 @8fps) Extra stream (704*480@8f ps) Main stream (1920*1080 @30fps) Extra stream (704*480@3 0fps)	NTSC: Main stream (2048*1536 @15fps) Extra stream (704*480@1 5fps) Main stream (1920*1080 @30fps)Extra stream (704*480@3 0fps)	NTSC: Main stream (1920*1080 @30fps) Extra stream (704*480@3 0fps)	NTSC: Main stream (1280*960@ 30fps) Extra stream (704*480@3 0fps)	NTSC: Main stream (1280*960@ 12.5fps)Extra stream (704*480@1 2.5fps) Main stream (1280*720@ 30fps) Extra stream (704*480@3 0fps)		
	Video Bit Rate	H.264: 56Kbps-8192Kbps. MJPEG is adjustable and bit rate is adjustable. Support customized setup.						
Flip		Support						
	Mirror	Support						
	Snapshot	Max 1f/s snapshot. File extension name is JPEG						
	Privacy Mask	Each channel supports max 4 privacy mask zones						
	Video Setup	Support parameter setup such as bright, contrast.						
	Video Information	Channel title, time title, motion detect, privacy mask.						
	Lens	Optional						
	Lens Interface	C/CS optional						
	Audio Input	·	5mm JACK LINE	IN				
	Audio Output	1-channel, 3.	5mm JACK SPE	AK OUT				
Audio	Bidirectional Talk Input	Reuse the first audio input channel						
<u>o</u> .	Audio Bit Rate	16kbps 16bit						
	Audio Compression Standard	G.711A/G.711I	Mu/PCM					
Video	Motion Detect	level has the hi Activation ever email function a	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 function and etc.					
	Camera Masking		Sensitivity level ranges from 1 to 6. Each sensitivity level is the percentage of the privacy mask zone.					

		Activation event, alarm device, audio/video storage, image snapshot, log, email SMTP function and etc.			
Alarm Input		1-channel input, 1-channel output			
Record : Backup	Record Priority	Manual>External alarm >Video detect>Schedule			
e g	Local Storage	Support local SD card hot swap			
and	Storage Management	Support display local storage status			
	Wire Network	1-channel wire Ethernet port, 10/100 Base-T Ethernet			
Network	Network Protocol	Standard HTTP, TCP/IP, ARP, IGMP, ICMP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, UPNP, NTP, Bonjour, SNMP.			
ork	Remote Operation	Monitor, PTZ control, system setup, file download, log information, maintenance, upgrade and etc			
	Video Output	1-channel analog video output,BNC port			
AUX Interface	Network Interface	1-channel Ethernet, 10/100 Base-T Ethernet (The IPC-HF3110-F series product has the optical port.)			
Interf	3G Port	Support 3G SIM card, TD/EVDO/WCDMA function. (For 3G series product only.)			
ace	Antenna Port	Support to receive the wireless signal (This function is for 3G and WIFI series product only.)			
	RS485 port	PTZ control interface. Support various protocols.			
Ge	Power	Support AC24V/DC12V power and PoE. (The IPC-HF3110-F/W/E/T/C series product does not support the PoE function.)			
nera	Power Consumption	<10W (For WIFI and 3G device, it is below 12W.)			
I Para	Working Temperature	-10 $^{\circ}\!$			
General Parameter	Working Humidify	10%~90%			
	Dimensions	70*63.2*149.5			
	Weight	650g			
	Installation	Support various installation modes (Enclosure and bracket is optional)			

1.3.2 Factory Default Setup

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

			Default Setup				
Setup		Item	IPBC-EL3MP Series				
ဂ္ဂ	င္ပ	Brightness	50				
Camera	Conditions	Contrast	50				
교		Hue	50				
		Saturation	50				
						Exposure Mode	Auto
		Gain Scope	0~80				

					Default Setup		
Setu	up	Item					
		Auto Iris			On		
		Profile			Auto		
		Day&Night			Auto		
		Backlight			Off		
		Mirror			Off		
		Flip			Off		
-	Video	Video		Bit stream type	General		
	0	Video bit stream		Encode mode	H.264		
		rear		Resolution	1080P (1920*1080)		
		ם	Main	Frame Rate (FPS)	PAL: 25 NTSC:30		
			Stream	Bit Rate Type	CBR		
				Recommen ded Bit	3584-8192 Kb/S		
				Bit Rate	8192		
				I Frame	50		
				Watermark	Enable		
				Watermark character	DigitalCCTV		
				Enable	Enable		
				Bit stream type	General		
				Encode mode	H.264B		
				Resolution	CIF(352*288/352*240)		
			Sub Stream	Frame Rate (FPS)	PAL: 25 NTSC:30		
				Bit Rate Type	CBR		
				Recommen ded Bit	192-1024Kb/S		
				Bit Rate	1024		
				I Frame	50		
		Snaps	shot	Snapshot Type	General		
				Image Size	1080P (1920*1080)		
		Quality		Quality	5		

				Default Setup
Set	up	Item		
			Interval	1s
			Privacy Mask	Disable
		Video Overlay	Channel Title	Enable
			Time Title	Enable
		Path	Snapshot Path	C:\PictureDownload
		i aui	Record Path	C:\RecordDownload
	Au		Enable	Enable
	Audio	Main Stream	Encode Mode	G.711A
			Enable	Disable
		Sub Stream	Encode Mode	G.711A
2	2		Host Name	IPC
Network			Ethernet Card	Wire(Default)
			Mode	Static
			Mac Address	Device MAC address when it is shipped out of the factory
			IP Version	IPV4
			IP Address	192.168.1.108 [¦ÄÖPÔÚ
		TCP/IP	Subnet Mask	255.255.255.0
			Default Gateway	192.168.1.1
			Preferred DNS	8.8.8.8
			Alternate DNS	8.8.8.8
			Enable ARP/Ping set device IP address service	
		Connection	Max Connection	10
			TCP Port	37777
			UDP Port	37778
			HTTP Port	80
			HTTP Port	80

			Default Setup		
Setup	Item				
	RTSP Port		554		
		HTTPs Port	443		
		Enable	Disable		
	PPPoE	Username	N/A		
		Password	N/A		
		Server Type	Disable, CN99 DDNS		
		Server IP	none		
		Server Port	80		
	DDNS	Domain Name	none		
			none		
		Password	N/A		
	Update Period IP Filter Trusted sites SMTP Server		10 minutes		
			Disable		
			none		
		Port	25		
		Anonymity	Disable		
		User Name	anonymity		
		Password	N/A		
		Sender	none		
	SMTP(Email)		N/A		
		Title (Subject)	IPC Message		
		Attachment	Enable		
		Mail Receiver	N/A		
			0 second		
		Email Test	Disable, interval=60 minutes		

				Default Setup
Setup	Item			
	UPnP Enable UPnP			Disable
			SNMP v1	Disable
			SNMP v2	Disable
			SNMP Port	161
			Read Community	public
	SN	MP	Write Community	private
			Trap Address	N/A
			Trap Port	162
			SNMP	v3 disable
			Enable	Enable
	Bonjour	njour	Server Name	"SN". It depends on the device.
	Multicast		Multicast Address	239.255.42.42
			Port	36666
			Real-time Monitor	0
	Qo	S	Command	0
			Wireless Qos	Disable
Ε	≺ic		Enable	Disable
Event	Video detect		Anti-dither	5 seconds
	dete		Sensitivity	3
	유		Record Channel	Enable
			Record Delay	10 seconds
	Motion Detect	Relay out	Enable	
		Motion Detect	Alarm Delay	10 seconds
			Send Email	Disable
			PTZ	Disable
			Activation Operation	N/A
			Address	0
			Snapshot	Disable

				Default Setup
Setup	Item			
			Enable	Disable
			Record Channel	Enable
			Record Delay	10 seconds
			Relay out	Enable
		Video Masking	Record Delay	10 seconds
			Send Email	Disable
			PTZ	Disable
			Activation Operation	N/A
			Address	0
	Alarm	Snapshot	Disable	
			Enable	Disable
		Relay in	Alarm 1	
			Anti-dither	0 seconds
			Sensor Type	NO
			Record Channel	Enable
		Alarm	Record Delay	10 seconds
		Activation	Relay out	Enable
			Alarm Delay	10 seconds
			Send Email	Disable
			PTZ	Disable
			Activation Operation	N/A
			Address	0
			Snapshot	Disable
		Relay output	T	1
	Abı		Enable	Disable
	Abnormity	No CD Card	Relay out	Enable
	nity	No SD Card	Relay out Delay	10 seconds
			Send email	Disable
		Capacity	Enable	Disable
		Warning	Capacity Limit	10%

				Default Setup
Setup	Item			
			Relay out	Enable
		Relay out Delay		10 seconds
			Send Email	Disable
			Enable	Disable
		SD Card	Relay out	Enable
		Error	Relay out Delay	10 seconds
			Send email	Disable
			Enable	Disable
			Record	Enable
		Disconnectio n	Record Delay	10 seconds
			Relay out	Enable
	Relay out Delay Enable Record Record Record Delay			10 seconds
			Enable	Disable
			Record	Enable
				10 seconds
		Relay out		Enable
	Relay out Delay			10 seconds
	Pe		Week	Enable
	Period		Time	00:00:00 to 24:00:00
		Setup	Schedule	Disable
			Motion Detect	Enable
			Alarm	Enable
Storage	Storage		Enable FTP	Disable
ge	lge	Server IP	N/A	
			Port	21
		FTP	Username	anonymous
			Password	N/A
			Remote path	share
			Emergency (Local)	Disable
	Re	cord Control	Pack Duration	8 minutes

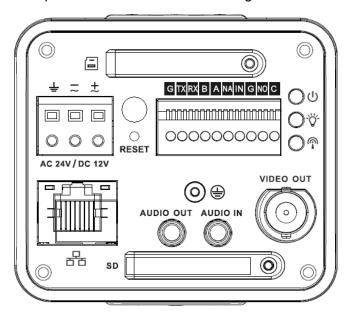
				Default Setup
Setup	Iter	m		
	Pre-record		Pre-record	5 seconds
			Disk Full	Overwrite
		Record Mode		Auto
			Record Stream	Main Stream
Sy	Ge		Device No	Device factory SN
System	General	Local Host	Language	English
			Video Standard	PAL
			Date Format	Y-M-D
			Time Format	24H
			Time Zone	GMT+08:00
			System Time	Sync PC
		Date and	DST	Disable
		time	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
	PT	Z	Protocol	PELCOD
			Address	1
			Baud Rate	9600
	Data Bit		Data Bit	8
			Stop bit	1
			Parity	N/A
			Auto Reboot	Enable 02:00 each day.
	Auto Maintenance Auto		Delete Old	Disable

			Default Setup				
Setup	Item						
		End Time	Current time				
	System Log Start Time		The previous day				
		All Types	Select all				

2 Framework

2.1 Rear Panel

This series IP camera real panel is shown as below. See Figure 2-1.



The rear panel with the network port

Interface Name		Connector	Function
VIDEO OUT	Video output port	BNC	Output analog video
			signal. Can connect to

			TV monitor to view video.
AC 24V/ DC 12V	Power port		Power port.Input 12V DC or AC 24V
STATUS Indication Light	Red light U		 System boot upred light is on System upgrades-red light flashes System resets-red light flashes.
	Green light Ö		 Normal working status-green light is on. Display record status: Record-green light flashes.
	Yellow light 🗿		Detect the wireless device- yellow light is on.
	3G (Not Avail. on this	cam	Connect to 3G card. Please note it is for 3G series product only.
WIFI	Antenna port		Connect to 3G/WIFI antenna to receive the wireless signal. Please note this function is for some series products only.
IN	Alarm input port	I/O port	Alarm input port 1. To receive the signal from

			the external alarm
			device.
NO	Alarm output port		Alarm output port. To
С			output alarm signal to
			the alarm device.
			NO: Normal open
			alarm output end.
			C: Alarm output
			public end.
G	GND		Alarm input ground
			end.
Α	RS485 port		RS485_A port, control
			external PTZ
В			RS485_B port, control
			external PTZ
RX	RS232 port		RS232_RX, RS232
			receive end.
TX			RS232_TX,RS232
			COM send out end.
G	GND		RS232 ground end
NA	IR light port		External IR light signal
			control port.
RESET	RESET button		Restore factory default
			setup.
			When system is
			running normally,
			press the RESET
			button for at least 5
			seconds, system can
			restore factory default
			setup.
AUDIO OUT	Audio output port	Audio output 3.5mm	Output audio signal to
		JACK port.	the passive device
			such as earphone.
AUDIO IN	Audio input port	Audio input 3.5mm	Input audio signal

		IA OK most	form day large 1
		JACK port.	from devices such as
			pick-up.
LANG	Network port	Ethernet port	Connect to
			standard Ethernet
			cable.
			Support PoE
			function.
OPT	100M fiber port	155M single fiber	Transmit 100M
	Not Avail. on this	dual-direction SFP	Ethernet data.
	camera.	fiber module	
SD	SD card port		Connect to SD card.
			Note
			When you install
			the SD card,
			please make sure
			current card is not
			in write mode and
			then you can
			install it to the
			camera.
			When you
			remove the SD
			card, please
			make sure current
			card is not in write
			mode. Otherwise
			it may result in
			data loss or card
			damage.
			Before hot swap,
			please stop
			record operation.

Ť	GND	Please make sure the
		device is securely
		earthed to prevent the
		thunderstorm strike.

2.2 Side Panel

Please refer to the following interface for side panel dimension information. The unit is mm. See Figure 2-2.

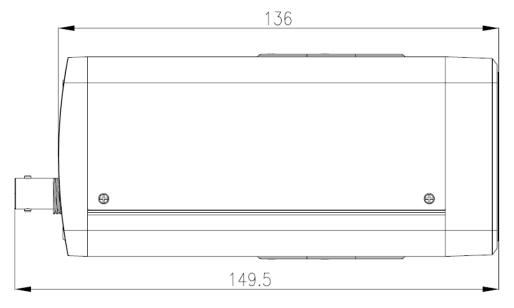


Figure 2-2

2.3 Front Panel

Please refer to the following interface for the front panel information. The unit is mm. See Figure 2-3.

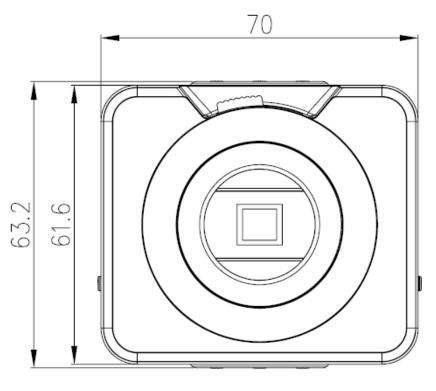


Figure 2-3

2.4 Bidirectional talk

2.4.1 Device-end to PC-end

Device Connection

Please connect the speaker or the MIC to the audio input port in the device rear panel. Then connect the earphone to the audio output port in the PC.

Login the Web and then click the Audio button to enable the bidirectional talk function.

You can see the button becomes orange after you enabled the audio talk function.

Click Audio button again to stop the bidirectional talk function.

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.

2.4.2 PC-end to the Device-end

Device Connection

Connect the speaker or the MIC to the audio input port in the PC and then connect the earphone to the audio output port in the device rear panel.

Login the Web and then click the Audio button to enable the bidirectional talk function.

You can see the button becomes orange after you enabled the audio talk function.

Click Audio button again to stop the bidirectional talk function.

Please note the listening operation is null during the bidirectional talk process.

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.

2.5 Alarm Setup

The alarm setup interface is shown as below. See Figure 2-4.

- Connect the alarm input device to the alarm input port.
- Connect the alarm output device to the alarm output port and alarm output public port. The alarm output port supports NO (normal open) alarm device only.
- Open the Web, go to the Figure 2-4. Here you can set the alarm input setup and alarm output setup. Please set the alarm in for the alarm input in the rear panel. Then you can select the corresponding type (NO/NC) according to the high/low level type when an alarm occurs.
- Set the WEB alarm output. The alarm output 01 is the alarm output port of the device rear panel.

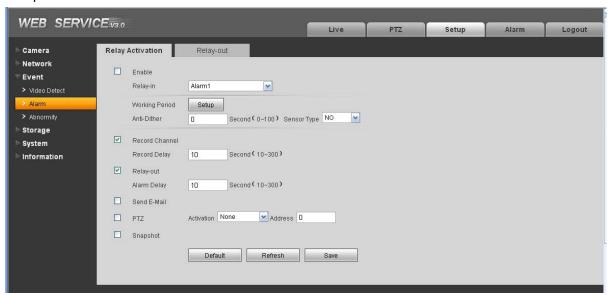


Figure 2-4

2.5.1 Alarm Input and Output Connection

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".

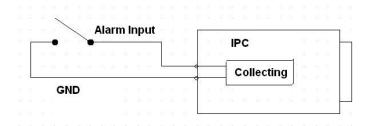


Figure 2-5

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.

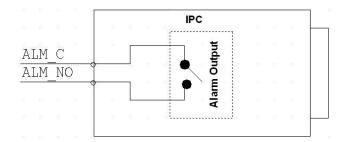


Figure 2-6

2.5.2 IR Light Connection

Please refer to the following figure for external IR light information. See Figure 2-7.

IR synchronization input signal. When the external IR light is on, the signal cable from the board outputs the 3.3V/1mA. It outputs the 0V when the IR light is off.

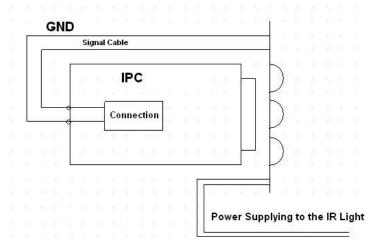


Figure 2-7

3 Installation

3.1 Lens Installation

3.1.1 Auto Aperture Lens

Please follow the steps listed below for auto aperture lens installation. The interface is shown as in Figure 3-1 and Figure 3-2.

- Remove the CCD protection cap of the device, and then line up the lens to the proper installation position. Turn clockwise until the lens is fixed firmly.
- Insert the lens cable socket to the auto lens connector in the side panel.

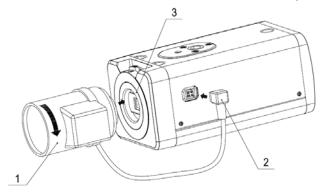


Figure 3-1

3.1.2 Manual Lens

Install C type lens

- Remove the CCD protection cap from the device.
- Install the C/CS adapter to the camera. Turn clockwise to secure against the focusing ring firmly.
- Line up the C lens to the installation position of the C/CS adapter. Turn clockwise to fix the lens.
- Use slotted screwdriver to fasten the screw near the focusing ring and then turn counter clockwise to move the focusing ring out for several millimeters. Now you can focus manually and check the video is clear or not. If you can not see the clear video, you can adjust via the flange-back.
- After you completed the focus setup, use the slotted screwdriver to fix the screw firmly.
 Fasten the focusing ring. Now the installation completed.

Install CS type lens

- Remove the CCD protection cap from the device.
- Line up the CS lens to the lens installation position of camera focusing ring. Turn clockwise to fix the lens.
- Use slotted screwdriver to fasten the screw near the focusing ring and then turn counter clockwise to move the focusing ring out for several millimeters. Now you can focus manually and check the video is clear or not. If you can not see the clear video, you can adjust via the flange-back.
- After you completed the focus setup, use the slotted screwdriver to fix the screw firmly.
 Fasten the focusing ring. Now the installation completed.

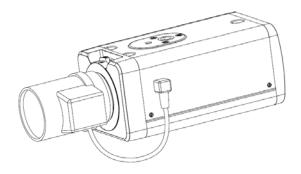


Figure 3-2

3.1.3 Remove Lens

Please follow the steps listed below to remove lens. The interface is shown as in Figure 3-3.

- Turn the lens counter clockwise and then remove it from the camera.
- Unplug the auto lens cable socket from the auto lens connector. If you are using the manual aperture lens, please skip to the following step.
- If there is no lens, please put the CCD protection cap back to protect the CCD.

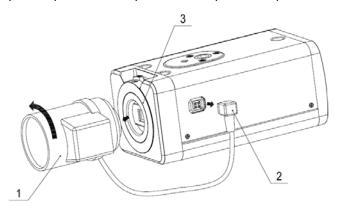


Figure 3-3

3.2 SD Card

3.2.1 Installation

Please follow the steps listed below to install SD card. The interface is shown as in Figure 3-4 and Figure 3-5.

- Use the screwdriver to loosen the SD card protection screw in the rear panel, and then remove the SD card protection cap from the camera.
- Install the SD card to the camera according to the proper installation position.
- Put the SD card protection cap back.
- Use the screwdriver to fix the SD card protection cap screw firmly to secure the SD card protection cap in the camera.

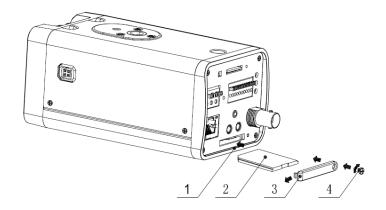


Figure 3-4

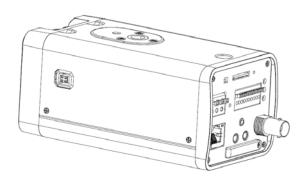


Figure 3-5

3.2.2 Remove

Please follow the steps listed below to remove SD card. The interface is shown as Figure 3-6.

- Use the screwdriver to loosen the screw of SD card protection cap in the rear panel.
 Remove the cap from the camera.
- Follow the SD card direction to remove the SD card.
- Insert the SD card protection cap.
- Use the screwdriver to fix the screw to secure the protection cap.

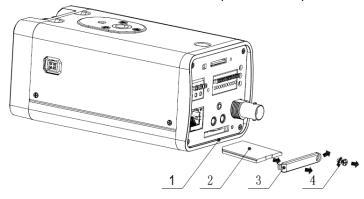


Figure 3-6

3.3 3G Card (Not Available on this camera)

3.3.1 Installation

The 3G card installation is the same with the SD card.

Please follow the steps listed below to install 3G card. The interfaces are shown as Figure 3-7 and Figure 3-8.

- Use the screwdriver to loosen the 3G card protection cap screw in the side panel, and then remove the 3G card protection cap from the camera.
- Install the 3G card to the camera according to the proper installation position.
- Put the 3G card protection cap back.
- Use the screwdriver to fix the 3G card protection cap screw firmly to secure the 3G card protection cap.

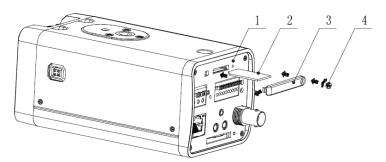


Figure 3-7

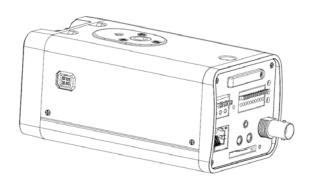


Figure 3-8

3.3.2 Remove

Please follow the steps listed below to remove 3G card. The interface is shown as Figure 3-9.

- Use the screwdriver to loosen the screw of 3G card protection cap in the rear panel.
 Remove the cap from the camera.
- Follow the 3G card direction to remove the 3G card.
- Insert the 3G card protection cap.
- Use the screwdriver to fix the screw to secure the protection cap.

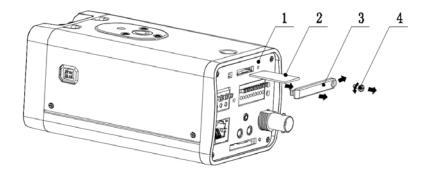


Figure 3-9

3.4 3G/WIFI Antenna (Not Available on this camera)

3.4.1 Installation

Line up the thread of the screw of the 3G/WIFI antenna to the thread of the rear panel. See Figure 3-10.

Please turn according to the direction in the following figure until antenna is secure firmly. See Figure 3-11.

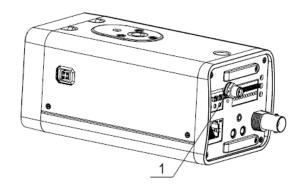


Figure 3-10

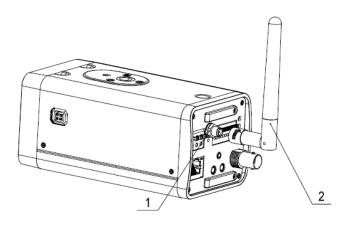


Figure 3-11

After you fix the 3G/WIFI antenna to the WIFI port of the rear panel, you can adjust the antenna direction. See Figure 3-12.

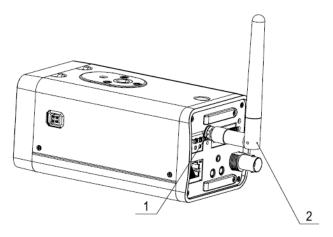


Figure 3-12

3.4.2 Remove

Use your hands to hold the 3G/WIFI thread end and then turn according to the following figure. See Figure 3-13.

Now you can see the antenna is away from the thread. See Figure 3-14.

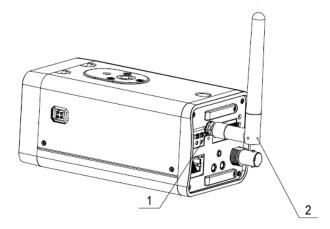


Figure 3-13

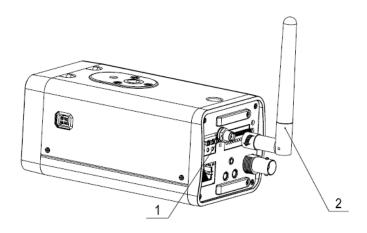


Figure 3-14

Remove the 3G/WIFI antenna from the port of the rear panel. See Figure 3-15.

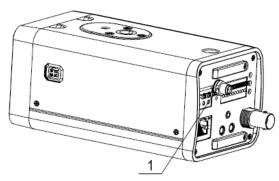


Figure 3-15

3.5 I/O Port

Install Cable

Please follow the steps listed below to install the cable. See Figure 3-16.

Use the small slotted screwdriver to press the corresponding button of cable groove. Insert the cable into the groove and then release the screwdriver.

Remove Cable

Please follow the steps listed below to remove the cable.

Use the small slotted screwdriver to press the corresponding button of cable groove. Remove the cable out of the groove and then release the screwdriver.

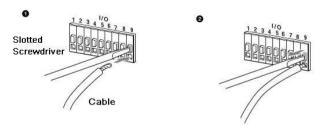


Figure 3-16

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.

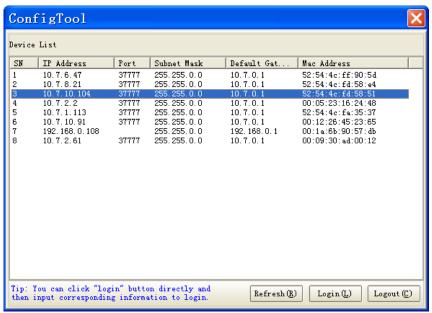


Figure 4-1

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

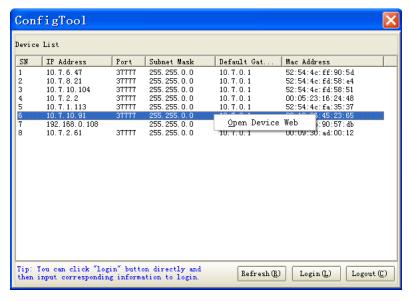


Figure 4-2

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

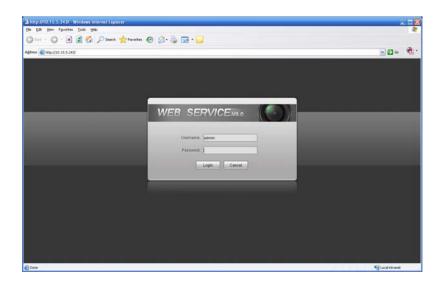


Figure 4-3

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:	10 . 10 . 3 . 16
User Name:	admin
Password:	****
Port:	37777
	Login Cancel

Figure 4-4

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

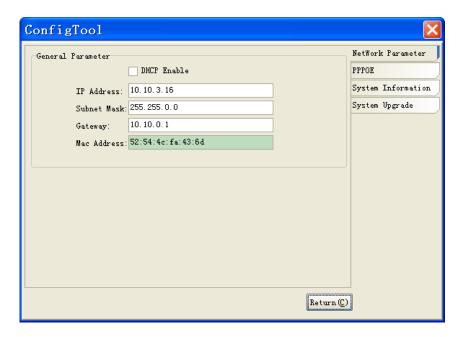


Figure 4-5

For detailed information and operation instruction of the quick configuration tool, please refer to the *Quick Configuration Tool User's Manual* included in the resources CD.

5 Web Operation

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

Web includes several modules: monitor channel preview, PTZ control, 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 or DHCP. 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.

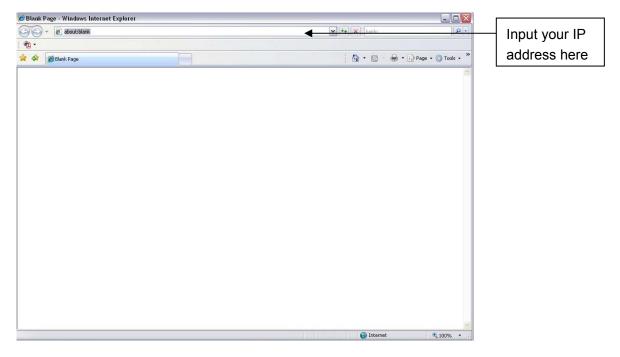


Figure 5-1

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.

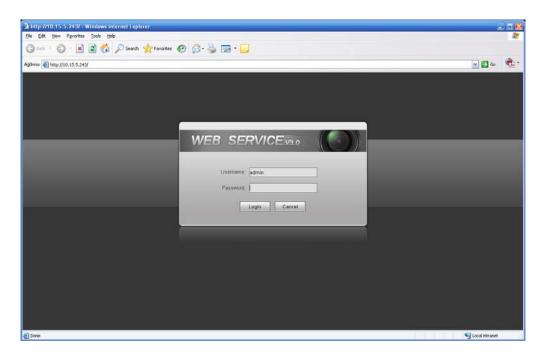
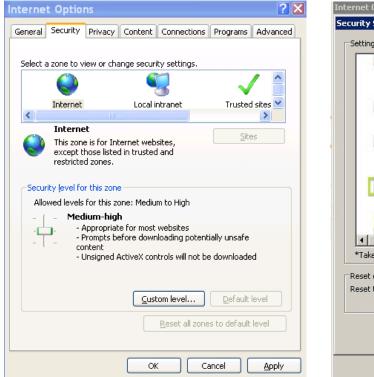


Figure 5-2

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.



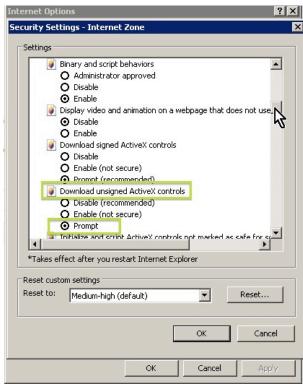


Figure 5-3

After you logged in, you can see the main window. See Figure 5-4.

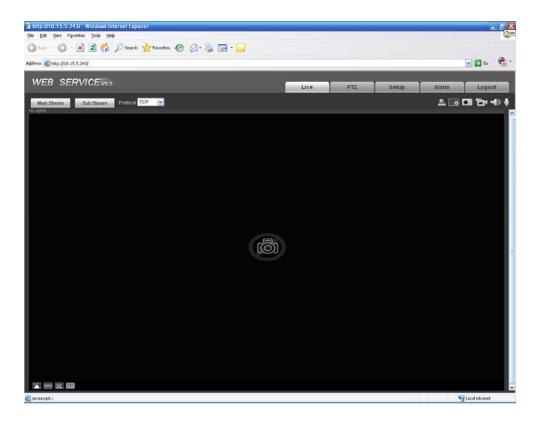


Figure 5-4

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 or can not control the device.	Please click RESET button for at least five seconds to restore factory default setup.
SD card hot swap	Before draw out SD card, please stop record or snapshot first and then wait for at least 15 seconds to remove the SD card. All the operations before is to maintain data integrity. Otherwise you can lose all the data in the SD card!
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.	The status indication light is shown as red when network upgrade operation failed. You can use port 3800 to continue upgrade.
Recommended SD card brand	Kingston 4GB, Kingston 16GB, Kingston32GB, Transcend 16GB, SanDisk 4GB, SanDisk 32GB.
	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.

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
Power Adapter	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.