HD Megapixel Indoor Network Camera User's Manual

Version 1.1.0

Welcome

Thank you for purchasing our network 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. (Refer to general introduction) **Please note: Do not connect two power supplying sources to the device at the same time; it may result in device damage! The product must be grounded to reduce the risk of electronic shock.** 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 network 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.

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.

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. Dome enclosure is the optical component, do not touch the enclosure when you are installing the device or clean the enclosure when you are doing maintenance work. Please use professional optical clean method to clean the enclosure. Improper enclosure clean method (such as use cloth) may result in poor IR effect of camera with IR function.

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
Network Camera Unit	1
C/CS Adapter ring	1
Quick Start Guide	1
CD	1

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1 General Introduction

1.1 Overview

This series network 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 network camera 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 network camera 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 network camera is widely used in many indoor environments and other important area surveillance.

User Management	I ne user right cannot exceed the group right.			
Data TransmissionSupport cable network data transmission via Ethernet Wireless device supports WIFI/3G network 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 Micro 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 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	 Network camera 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 • Realize network camera configuration and management via Ethernet. Management • 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. Warning! 			

1.2 Feature

	Do not connect two power supplying sources to the device at the same time; it may result in device damage!			
 PoE Support Power over Ethernet (PoE). Conform to the IEEE802.3af stan Connect the device to the switcher or the router that supports the PoE realize the network power supply. To guarantee proper performance, please make sure the power source can supply at least 10W power. For WIFI/3G devices, PoE is not recommended. 				
Assistant Function	 Day/Night mode auto switch (ICR switch.) Backlight compensation: screen auto split to realize backlight compensation to adjust the bright. Support system resource information and running status real-time display. Support log 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 network camera performance specification.

Model		IPC-HF8101E	IPC-HF8201E	
System	Main Processor	TI high performance DSP		
ten	OS	Embedded LINUX		
	System Resources	Support real-time network monitor, local record, and remote operation at the same time.		
	User Interface	Remote operation interface such as WE	B, DSS, PSS	
	System Status	SD card status info, bit stream statistics	, log, and software version.	
<	Image Sensor	1/3-inch CMOS		
dec	Pixel	1280(H)×1024(V)	1920(H)×1080(V)	
Video Parameter	Day/Night Mode	Support IR-CUT electromagnetic switch		
ame	Auto Aperture	DC drive		
ter	Lens	C/CS port, lens optional		
	Illumination	0.01Lux/F1.2 (color mode), 0.001Lux/F1.2 (black white mode)		
	SNR	52db and up		
	Gain Control	Manual/Auto		
	White Balance	Manual/Auto		
	NR	Support 3D NR		
	WRD	120dB WDR		
	BLC	Off/BLC/WDR (1-100 adjustable)/HLC(anti-flicker is outdoor and is valid only when exposure mode is auto with range 1-100)		
	Electronic	Manual/Auto		
	Shutter	It ranges from 1/3 to 1/30000.		
Smart Focus Support ABF				

	Video				
	Compression Standard	H.264/H.264H/H.264B/MJPEG			
	Video Frame	PAL: Main stream Max(1280*1024@25fps), Extra stream Max(704*576@25fps), Third stream Max(1280*1024@25fps)	PAL: Main stream Max(1920*1080@25fps), Extra stream Max(704*576@25fps), Third stream Max(1920*1080@25fps)		
	Rate	NTSC: Main stream Max(1280*1024@30fps), Extra stream Max(704*480@30fps), Third stream Max(1280*1024@30fps)	NTSC: Main stream Max(1920*1080@30fps), Extra stream Max(704*480@30fps), Third stream Max(1920*1080@30fps)		
	Video Bit Rate	16K-14Mbps, adjustable and bit rate is adjustable. Support customized setup.	16K-20Mbps, adjustable and bit rate is adjustable. Support customized setup.		
	Video Setting	Support rotate mode			
	Snapshot	Max 1f/s snapshot. File extension name	e is JPEG		
	Privacy Mask	Each channel supports max 4 privacy m	nask zones		
	Video Setup	Support parameter setup such as bright	tness, contrast, acutance.		
	Video Information	Channel title, time title, motion detect, p	-		
	Intelligent Detection	Tripwire, cross warning zone, abando change detection, defocus detection.	oned /missing object detection, scene		
	Face Detection	Detect face in video and link according	to the result.		
Audio Detection Detect if there is audio input, filter noise, scream emergen Lens Interface C/CS optional			e, scream emergency and etc.		
	Video Interface	1-ch composite analog video output			
	Audio Input	1-channel, 3.5mm JACK LINE IN/ in-built MIC IN			
Aud	Audio Output	1-channel, 3.5mm JACK LINE OUT			
oibr	Audio Bit Rate	64kbps 16bit			
0	Audio Compression Standard	G.711a/G.711Mu			
Video	Motion Detect	396 (18*22) detection zones; sensitivity level ranges from 0 to 100; area threshold ranges from 0 to 100. Activation event, video storage, image snapshot, log, email function and etc.			
eo	Video Loss	Activation event: video storage, image snapshot, log, email function and etc.			
Alarm	Interface	2 channel input, 1 channel output (on-off)			
Record Manual >Video detect>Schedule Priority Support Micro SD card (64G) local storad					
p d	Storage Function	Support Micro SD card (64G) local stora	Support Micro SD card (64G) local storage, NAS storage		
Network	Wire Network	1-channel 100M/1000M Ethernet, RJ45 Note: Ethernet port device.			
ort	Network	Standard HTTP, TCP/IP, IPv4/IPv6, ARP, IGMP, ICMP, RTSP, RTP, UDP,			
	Protocol	SMTP, FTP, DHCP, DNS, DDNS, PPPoE, UPnP, NTP, Bonjour, SNMP			
	Protocol	ONVIF(default), GB28181 Support Micro SD card (64G) local storage			
Local Storage			aye		

AUX Interface	Reset	External reset button
ce	RS485 port	1-channel, support transparent channel connection. Support various PTZ protocols.
General	Power	Support AC24V/DC12V/PoE power supply Note: Don't use AC24V and DC12V (two power modes) to the device at the same time.
eral P	Power Consumption	Max 10W (ABF and ICR enabled)
Parameter	Working Temperature	-30℃~+60℃
leter	Working Humidify	≤95%
	Dimensions	74.1*65.5*135.4
	Weight	0.30kg
	Installation	Support various installation modes

	Model			
Parameter		IPC-HF8301E	IPC-HF8281E	
	<			
System	Main Processor	TI 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 WE	EB, DSS, PSS	
	System Status	SD card status info, bit stream statistics	, log, and software version.	
<	Image Sensor	1/3-inch CMOS	1/1.9-inch CMOS	
ide	Pixel	2048(H)×1536(V)	1920(H)×1080(V)	
Video Parameter	Day/Night Mode	Support IR-CUT electromagnetic switch		
me	Auto Aperture	DC drive		
etei	Lens	C/CS port, lens optional		
	Illumination	0.01Lux/F1.2(color mode), 0.001/F1.2 (black white mode)	0.002Lux/F1.2(color mode), 0.0002/F1.2 (black white mode)	
	SNR	52db and up		
	Gain Control	Manual/Auto		
	White Balance	Manual/Auto		
	NR	3D NR		
	WRD	120dB WDR		
	BLC	anti-flicker is outdoor and is valid only e 1-100)		

Electronic					
	Shutter	Manual/Auto, It ranges from 1/3 to 1/30000.			
	Smart Focus	Support ABF			
	Video Compression Standard	H.264/H.264H/H.264B/MJPEG			
	Video Frame Rate	PAL: Main stream Max(2048*1536@25fps), Extra stream Max(704*576@25fps), Third stream Max(1920*1080@25fps)	PAL: Main stream Max(1920*1080@50fps), Extra stream Max(704*576@50fps), Third stream Max(1920*1080@50fps)		
		NTSC: Main stream Max(2048*1536@30fps), Extra stream Max(704*480@30fps), Third stream Max(1920*1080@30fps)	NTSC: Main stream Max(2048*1536@60fps), Extra stream Max(704*480@60fps), Third stream Max(1920*1080@60fps)		
	Video Bit Rate	16K-32Mbps, and bit rate is adjustable. Support customized setup.			
	Video Flip	Support rotate mode			
	Snapshot	Max 1f/s snapshot. File extension name	e is JPEG		
	Privacy Mask	Each channel supports max 4 privacy m	nask zones		
	ROI	Support 4 ROI.			
	Video Setup	Support parameter setup such as bright	tness, contrast.		
	Video Information	Channel title, time title, motion detect, p	privacy mask, overlay.		
	Intelligent Detection	Tripwire, cross warning zone, abando change detection, defocus detection.	oned /missing object detection, scene		
	Face Detection	Detect face in video and link according	to the result.		
	Audio Detection	e, scream emergency and etc.			
	Lens Interface	C/CS optional			
	Audio Input	1-channel, 3.5mm JACK LINE IN/ in-built MIC IN			
AL	Audio Output	1-channel, 3.5mm JACK LINE OUT			
Audio	Audio Bit Rate	64kbps 16bit			
	Audio Compression Standard	G.711a/G.711Mu			
Video	Motion Detect	396 (18*22) detection zones; sensitivity level ranges from 0 to 100; area threshold ranges from 0 to 100. Activation event, video storage, image snapshot, log, email function and etc.			
leo	Video Loss	Activation event: video storage, image s	snapshot, log, email function and etc.		
Alarm	Interface	2 channel input, 1 channel output (on-off)			
Record and Backup	Record Priority	Manual >Video detect>Schedule			
dr p	Storage Function	Support Micro SD card (64G) local storage, NAS storage			
	Wire Network	1-channel 100M/1000M Ethernet, RJ45	port.		
Network	Network Protocol	Standard HTTP, TCP/IP, ARP, IGMP, ICMP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, UPNP, NTP, Bonjour, SNMP, Qos, 802.1x,			
ort	Protocol	ONVIF(default), GB28181			
^	Local Storage	Support Micro SD card (64G) storage			

AUX Interface	Reset	External reset button
ICe	RS485 port	1-channel, support transparent channel connection. Support various PTZ protocols.
Gene	Power	Support AC24V/DC12V/PoE power supply Note: Don't use AC24V and DC12V (two power modes) to the device at the same time.
General Parameter	Power Consumption	Max 10W (ABF and ICR enabled)
aram	Working Temperature	-30℃~+60℃
eter	Working Humidify	≤95%
	Dimensions	74.1*65.5*135.4
	Weight	0.30kg
	Installation	Support various installation modes

2 Framework

2.1 Rear Panel

This series network camera rear panel is shown as below. See Figure 2-1.



Figure 2-1 Rear panel with network port



Figure 2-2 Rear panel with MB optical fiber port

Note: Picture in this chapter is for reference only and actual rear panel may vary.

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

Please refer	to the	e following	sheet for	detail information.
1 10000 10101		, iono ming	0110001101	aotan milomation

Red light 🕛		 System boot up-
		red light is on
		 System
		upgrades-red light
		flashes
		 System resets-
		red light flashes.
Green light 👸		 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 port	-	Connect to 3G
		card.
		 Note: Only 3G
		model supports
		3G function.
Antenna port	-	Connect to
		3G/WIFI antenna,
		receiving wireless
		signal.
		 Note: Only some
		models support
		this function.
Alarm input port 1	I/O port	Alarm input port. To
		receive the signal from
		the external alarm
		device.
	Green light 🕅 Yellow light 🔊 3G port Antenna port	Green light ** - Yellow light ** - 3G port - Antenna port -

С		output alarm signal to
		the alarm device.
		NO: Normal open
		alarm output end.
		C: Alarm output
		public end.
IN2	Alarm input port 2	Alarm input port. To
		receive the signal from
		the external alarm
		device.
А	RS485 port	RS485_A port, control
		external PTZ
В		RS485_B port, control
		external PTZ
RX	RS232 port	RS232_RX, RS232
		receive end.
тх		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.
ABF	Auto back focus	- Auto back focus
	adjustment	adjustment, by
		adjusting Sensor
		position to achieve
		precise focus.
		· · · ·

Audio output port	Audio output 3.5mm	Output audio signal to
	JACK port.	the passive device
		such as earphone.
Audio input port	Audio input 3.5mm	Input audio signal
	JACK port.	from devices such as
		pick-up.
Network port	Ethernet port	Connect to
		standard Ethernet
		cable.
		Support PoE
		function.
MB optical fiber port	155M single-fiber	Transmit MB Ethernet
	bidirectional SFP	data.
	optical module	
SD card port		Connect to SD card.
		Note
		• When you install
		the Micro 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 Micro
		SD card, please
		make sure current
		card is not in write
		mode. Otherwise
		it may result in
		data loss or card
		damage.
	Network port MB optical fiber port	JACK port.Audio input portAudio input 3.5mm JACK port.Network portEthernet portMB optical fiber port155M single-fiber bidirectional SFP optical module

		 Before hot swap, please stop record operation.
Ŧ	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 2-3.



Figure 2-3 Side panel

2.3 Front Panel

Please refer to the following interface for the front panel information. The unit is mm. See Figure 2-4.



Figure 2-4 Front panel

2.4 Bidirectional talk

2.4.1 Device-end to PC

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 MIC, and then you can get the audio from the earphone or sound box at the pc-end.

2.4.2 PC 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 MIC, and then you can get the audio from the earphone or sound box at the device-end.

2.5 Alarm Setup

The alarm interface is shown as in Figure 2-5.

Logout
?

Figure 2-5 Alarm

The alarm setup interface is shown as below.

- Step 1. Connect the alarm input device to the IN alarm input port on the rear panel I/O port.
- Step 2. Connect the alarm output device to the NO alarm output port and C alarm output public port on the rear panel I/O port. The alarm output port supports NO (normal open) alarm device only.
- Step 3. Open the Web, go to the Figure 2-5. Here you can set the alarm input setup and alarm output setup. Here the alarm input is the alarm input on the rear panel I/O port (as IN port). Then you can select the corresponding type (NO/NC) according to the high/low level type when an alarm occurs.
- Step 4. Set the WEB alarm output. The alarm output 01 is the alarm output port of the device rear panel I/O port (as the NO port).

2.5.1 Alarm Input and Output Connection

Please refer to the following figure for alarm input information. See Figure 2-6. 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 3.3V or is idle, the device collects the logic "1". When the input signal is grounded, the device collects the logic "0".



Figure 2-6 Alarm input

Please refer to the following figure for alarm output information. See Figure 2-7.

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 2-7 Alarm output

2.5.2 IR Light Connection

Note:

- Device shall have external port for IR function.
- Log in Web, select Setup -> Camera -> Day&Night, and select sensor input. If it is not available, then you do need to set it.

Please refer to the following figure for external IR light information. See Figure 2-8.

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 2-8 IR light connection

3 Installation

3.1 Lens

3.1.1 Lens Installation



Figure 3-1 Lens installation 1



Figure 3-2 Lens installation 2

3.1.1.1 Auto Aperture Lens

Please follow the steps listed below for auto aperture lens installation.

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.

Step 1. Insert the lens cable socket to the auto lens connector in the side panel. Step 2. Adjust focus length.

3.1.1.2 Manual Lens

Install C type lens

Step 1. Remove the CCD protection cap from the device.

- Step 2. Install the C/CS adapter to the camera. Turn clockwise to secure against the focusing ring firmly.
- Step 3. Line up the C lens to the installation position of the C/CS adapter. Turn clockwise to fix the lens.
- Step 4. 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.

Step 5. 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

Step 1. Remove the CCD protection cap from the device.

- Step 2. Line up the CS lens to the lens installation position of camera focusing ring. Turn clockwise to fix the lens.
- Step 3. 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 cannot see the clear video, you can adjust via the flange-back.
- Step 4. After you completed the focus setup, use the slotted screwdriver to fix the screw firmly. Fasten the focusing ring. Now the installation completed.

3.1.2 Remove Lens

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

Requirements for recording audio:

- 1. A single file size cannot exceed 800K or free space.
- 2. User customized audio file cannot exceed 8.
- 3. During recording, you must enable main stream audio since without stream, recording will fail.
- 4. Record max length is 30s. Overtime and insufficient capacity will cause recording to end automatically.

Step 1. Turn the lens counter clockwise and then remove it from the camera.

Step 2. 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.

Step 3. If there is no lens, please put the CCD protection cap back to protect the CCD.



Figure 3-3 Remove lens

3.2 SD Card

3.2.1 Installation

Please see Figure 3- 4 SD card installation to insert Micro SD card into the SD slot. The slot is flexible, so the Micro SD card can be embedded via lightly pressing.



Figure 3-4 SD card installation

3.2.2 Remove

Please see Figure 3- 5 Remove Micro SD card to lightly press Micro SD card and it will automatically eject.



Figure 3-5 Remove Micro SD card

3.3 WIFI Antenna

3.3.1 WIFI Antenna Installation

WIFI antenna installation illustration is shown in Figure 3-6 WIFI antenna installation.



Figure 3- 6 WIFI antenna installation

- Step 1. Face screw on WIFI antenna toward bolt of port on rear panel. Rotate according to the figure until the antenna is fixed in place.
- Step 2. After WIFI antenna is fixed on WIFI port on rear panel, you can adjust direction of WIFI antenna corresponding to actual need.

3.3.2 Remove WIFI Antenna

Please see Figure 3-7 Remove WIFI antenna to remove the antenna.



Figure 3-7 Remove WIFI antenna

Step 1. Hold threaded end of WIFI antenna, rotate it according to direction in the figure until WIFI antenna is removed from bolt of port.

Step 2. Take down WIFI antenna from port on rear panel.

3.4 I/O Port

Install Cable

Please follow the steps listed below to install the cable. See Figure 3-8 I/O port.

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 3-8 I/O port

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.

1. 1 90:02: a9:7b:50	192.168.1.1	255.255.255.0	37777	192. 168. 1. 108
>			100	

Figure 4-1 Search interface

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

Select the "Open Device Web" item; you can go to the corresponding web login interface.

N	IP Address	Port	Subnet Mask	Default Gateway	Mac Address
	192, 168, 1, 108 Open Device Web	37777	255.255.255.0	192.168.1.1	90:02:a9:7b:50
r					1 12
ip: hen	You can click "login" button direc input corresponding information to	tly and login.			

Figure 4-2 Search interface 2

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 4-3.

In Figure 4-3, 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 cannot login the device.

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

Login		
IP Address:	192.168.1.108	
User Name:	admin	
Password:	****	
Port:	37777	
	Login Cancel	

Figure 4-3 Login prompt

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

	DHCP Enable	IPv4	•	
IP Address:	192.168.1.108			
Subnet Mask:	255.255.0.0			
Gateway:	10.15.0.1			
Mac Address:	90:02:a9:7f:d8:21			

Figure 4-4 Main interface

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

5.2 Login and Main Interface

Open IE and input network camera address in the address bar. See Figure 5-1.



Figure 5-1 IP address

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.

IP Car	nera		
Usemam	a.		
Passwor			
	Login Cancel	il	

Figure 5- 2 Web login

After you successfully logged in, please install WEB plug-in unit. Please refer to the Web Operation Manual included in the resource CD for detailed operation instruction. See Figure 5- 3.



Figure 5-3 Web monitoring window

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.	
Micro SD card write times	Do not set the Micro SD card as the storage media to storage the schedule record file. It may damage the Micro 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 Micro SD card	Kingston 4GB, Kingston 16GB, Kingston32GB, Transcend 16GB, SanDisk 4GB, SanDisk 32GB.	
brand	Usually we recommend the 4GB (or higher) high speed card in case the slow speed results in data loss.	
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.	
General power adapter	 The general power adapter 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
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Component Name	Toxic or Hazardous Materials or Elements					
	Pb	Hg	Cd	Cr VI	PBB	PBDE
Circuit Board Component	0	0	0	0	0	0
Case	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.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.