

904-805-1581

# HDCC5M

# Megapixel Indoor IP Camera User's Manual

Version 3.0.0

# 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 Start Guide	1
CD	1

# **Table of Contents**

1	Gen	eral Int	troduction	1
	1.1	Ov	erview	1
	1.2	Fea	ature	1
	1.3	Sp	ecifications	2
		1.3.1 1.3.2	Performance Factory Default Setup	2
2	Fran	nework	<	
	2.1	Re	ar Panel	
	2.2	Sid	le Panel	
	2.3	Fro	ont Panel	
	2.4	Bid	lirectional talk	
		2.4.1 2.4.2	Device-end to PC-end PC-end to the Device-end	
	2.5	Ala	arm Setup	
		2.5.1 2.5.2	Alarm Input and Output Connection IR Light Connection	
3	Insta	allation		
	3.1	Ler	ns Installation	
		3.1.1 3.1.2 3.1.3	Auto Aperture Lens Manual Lens Remove Lens	21 21 22
	3.2	SD	Card	
		3.2.1 3.2.2	Installation Remove	
	3.3	3G	Card	
		3.3.1 3.3.2	Installation Remove	
	3.4	3G	/WIFI Antenna	25

	3	3.4.1 Installation	25
		3.4.2 Remove	25
	3.5	I/O Port	26
4	Quick	k Configuration	28
	4.1	Overview	28
	4.2	Operation	28
5	Web	Operation	32
	5.1	Network Connection	32
	5.2	Login and Logout	32
6	FAQ .		35
Арр	pendix	x Toxic or Hazardous Materials or Elements	36

# 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.

User Management	<ul> <li>Different user rights for each group, one user belongs to one group.</li> <li>The user right cannot exceed the group right.</li> </ul>
Data Transmission	<ul> <li>Support cable network data transmission via Ethernet</li> <li>Wireless device supports WIFI/3G wireless data transmission.</li> </ul>
Storage Function	<ul> <li>Support central server backup function in accordance with your configuration and setup in alarm or schedule setting</li> <li>Support record via Web and the recorded file are storage in the client-end PC.</li> <li>Support local SD card hot swap. Support short-time storage when encounter disconnection.</li> <li>Support network storage such as FTP.</li> </ul>
Alarm Function	<ul> <li>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)</li> <li>Real-time video detect: motion detect, camera masking.</li> </ul>
Network Monitor	<ul> <li>IPC supports one-channel audio/video data transmit to network terminal and then decode. Delay is within 270ms (network bandwidth support needed)</li> <li>Max supports 20 connections.</li> <li>Adopt the following audio and video transmission protocol: HTTP, TCP, UDP, MULTICAST, RTP/RTCP, RTSP and etc.</li> <li>Support web access.</li> </ul>
Network Management	<ul> <li>Realize IPC configuration and management via Ethernet.</li> <li>Support device management via web.</li> <li>Support various network protocols.</li> </ul>
Peripheral Equipment	<ul> <li>Support peripheral equipment connection via the RS232 port, each peripheral equipment control protocol and interface can be set freely.</li> <li>Support serial port (RS232/RS485) transparent data transmission.</li> <li>Support the on-off alarm device to alarm via the sound or the light.</li> </ul>

### 1.2 Feature

Power	• External power adapter. Support DC 12V/AC 24V power supply.
РоЕ	<ul> <li>Support Power over Ethernet (PoE). Conform to the IEEE802.3af standard.</li> <li>Connect the device to the switcher or the router that supports the PoE function to realize the network power supply.</li> <li>To guarantee proper performance, please make sure the power sourcing device can supply at least 10W power.</li> <li>Usually, do not use the PoE for the WIFI/3G device.</li> </ul>
Assistant Function	<ul> <li>Day/Night mode auto switch (ICR switch.)</li> <li>Backlight compensation: screen auto split to realize backlight compensation to adjust the bright.</li> <li>Support system resource information and running status real-time display. Support log function.</li> <li>Support video watermark function to avoid vicious video modification.</li> <li>Support auto aperture.</li> <li>Support picture parameter setup such as electronic shutter and gain setup.</li> <li>Support dual-stream, ACF(Active frame control )</li> </ul>

# 1.3 Specifications

### 1.3.1 Performance

Please refer to the following sheet for IPC performance specification.

Model Parameter		HDCC5M
Sys	Main Processor	TI Davinci high performance DSP
iten	OS	Embedded LINUX
3	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
deo	Pixel	2560(H)*1920(V)
o Para	Day/Night Mode	Support day/night mode switch and IR-CUT at the same time.
ame	Auto Aperture	Optional
ətei	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.
	Video Compression Standard	H.264/JPEG/MJPEG
	Video Frame Rate	PAL: Main stream (2560*1920@8fps) Extra stream(704*576@8fps) Main stream (1920*1080@25fps) Extra stream (704*576@25fps)

		NTSC: Main stream (2560°1920@stps)	
		Extra stream (704*480@8fps) Main stream (1020*1080@20fps) Extra stream (704*480@20fps)	
		Main Stream (1920~1080@30fps) Extra Stream (704~480@30fps)	
		H 261: 56Kbps-8192Kbps	
	Video Bit Bate	M IPEG is adjustable and bit rate is adjustable	
	VIGEO BILINALE	Support customized setup	
		Support mirror	
	Video Flip	Support flip function.	
	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	1-channel, 3.5mm JACK LINE IN	
	Audio Output	1-channel, 3.5mm JACK SPEAK OUT	
+	Bidirectional	Device the first sudia is not shown all	
Auc	Talk Input	Reuse the first audio input channel	
lio	Audio Bit Rate	16kbps 16bit	
	Audio		
	Compression	G.711a/G.711u/PCM	
	Standard		
		396 (18*22) detection zones; sensitivity level ranges from 1 to 6	
<	Motion Detect	(The 6" level has the highest sensitivity)	
ide		Activation event, alarm device, audio/video storage, image snapshot,	
0		Sensitivity level ranges from 1 to 6. Each sensitivity level is the	
	Camera	percentage of the privacy mask zone.	
	Masking	Activation event, alarm device, audio/video storage, image snapshot,	
		log, email SMTP function and etc.	
Alarm	Input	1-channel input, 1-channel output	
ᄧᅏ	Record	Manual External alarm Nideo detect Schedule	
ecc	Priority		
up	Local Storage	Support local SD card hot swap	
and	Storage	Support display local storage status	
8	Management	טערייז טושיומי וטטמו שנטומשב שנמנעש	
	Wire Network	1-cnannel wire Ethernet port, 10/100 Base-1 Ethernet	
Vet	Network		
WO	Protocol	RIGE, SIMP, FIF, DHOF, DNS, DDNS, FFFOE, OFNF, NTP, Boniour SNMP	
rk	Remote	Monitor, PTZ control, system setup, file download, log information	
	Operation	maintenance, upgrade and etc	
	Video Output	1-channel analog video output, BNC port	
AU	Network	1-channel Ethernet, 10/100 Base-T Ethernet (The IPC-HF3110-F	
X	Interface	series product has the optical port.)	
nte	3G Port	Support 3G SIM card, TD/EVDO/WCDMA function. (For 3G series	
rfa		product only.)	
ICe	Antenna Port	Support to receive the wireless signal (This function is for 3G and WIEL series product only)	

Ģ	Power	Support AC24V/DC12V power and PoE. (The IPC-HF3110- F/W/E/T/C series product <b>does not</b> support the PoE function.)
enera	Power Consumption	<10W (For WIFI and 3G device, it is below 12W.)
l Para	Working Temperature	-10°C~+60°C(For –W device, it is from -10°C~+55°C For 3G device, it is from -10°C~+50°C)
ameter	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.

Setun		Item			Default Setup					
Set	up	nem			HDCC5M					
Ca	Co	Bright	ness		50					
ame	ndition	Contra	ast		50					
ra		Hue			50					
	S	Saturation			50					
		Gain Mode			Auto					
		Gain Adjust			50					
		Exposure Mode			Auto					
		Auto I	ris		On					
		Scene	Mode		Auto					
		Day/night Mode			Auto					
		BLC			Off					
		Flip			Off					
	Video	Video bit stream Video	Video	Bit stream type	General					
			oit strea	oit strea	Encode mode	Н.264				
				Resolutio n	1080P (1920*1080)					
								Main Stream	Frame Rate (FPS)	PAL: 25 NTSC:30
						Bit Rate Type	CBR			
				Recomm ended Bit	3584-8192 Kb/S					
				Bit Rate	8192					
				I Frame	50					
				Waterma rk	Enable					

Cat		Itom			Default Setup
Set	up	Item			HDCC5M
				Waterma rk character	DigitalCCTV
				Enable	Enable
				Bit stream type	General
				Encode mode	H.264B
				Resolutio n	CIF(352*288/352*240)
			Sub Stream	Frame Rate (FPS)	PAL: 25 NTSC:30
				Bit Rate Type	CBR
				Recomm ended Bit	192-1024Kb/S
				Bit Rate	640
				I Frame	50
				Snapsho t Type	General
		Snapshot		lmage Size	1080P (1920*1080)
				Quality	5
				Interval	1s
				Privacy Mask	Disable
		Video	leo Overlay	Channel Title	Enable
				Time Title	Enable
		Path		Snapshot Path	C:\PictureDownload
				Record Path	C:\RecordDownload
	Au			Enable	Enable
	Idio	Main Stream		Encode Mode	G.711A
				Enable	Disable
		Sub S	tream	Encode Mode	G.711A
~	Netw	TCP/I	D C	Host Name	IPC
vor				Ethernet	Wire(Default)

Sotup	Item		Default Setup
Setup			HDCC5M
		Card	
		Mode	Static
		Mac Address	Device MAC address when it is shipped out of the factory
		IP Version	IPV4
		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
		Enable ARP/Ping set device IP address service	Enable
		Max Connecti on	10
		TCP Port	37777
	Connection	UDP Port	37778
		HTTP Port	80
		RTSP Port	554
	PPPoE	Enable	Disable
		Usernam e	N/A
		Passwor d	N/A
	DDNS	Server Type	Disable, CN99 DDNS
		Server IP	none
		Server Port	80
		Domain Name	none
		User	none

Setun Item			Default Setup
Setup			HDCC5M
		Passwor d	N/A
		Update Period	5 minutes
	IP Filter	Trusted sites	Disable
		SMTP Server	none
		Port	25
		Anonymit y	Disable
		User Name	anonymity
		Passwor d	N/A
		Sender	none
	SMIT(Email)	Authentic ation (Encrypti on mode)	N/A
		Title (Subject)	IPC Message
		Attachme nt	N/A
		Mail Receiver	0s
		Email Test	Disable, interval=60 minutes
	UPnP	Enable UPnP	Disable
		SNMP v1	Disable
		SNMP v2	Disable
		SNMP Port	161
	SNMP	Read Communi ty	public
		Write Communi ty	private
		Trap Address	N/A

Satur	ltor	<b>m</b>		Default Setup			
Setup	ner	n		HDCC5M			
			Trap Port	162			
			Enable	Enable			
	Bor	njour	Server Name	"Device name+SN". It depends on the device.			
	Mu	lticast	Multicast Address	239.255.42.42			
			Port	36666			
			Enable	Disable			
			SN	1			
	Aut	o Register	Server IP	0.0.0.0			
		0	Port	7000			
			Sub- device ID	none			
	0.05		Real-time Monitor	0			
		0	Comman d	0			
Ē	Vi	Motion Detect	Enable	Disable			
rent	deo detect		Anti- dither	5 seconds			
			Sensitivit y	3			
			Record Channel	Enable			
			Record Delay	10 seconds			
			Relay out	Enable			
			Alarm Delay	10 seconds			
			Send Email	Disable			
			PTZ	Disable			
			Activation Operatio n	N/A			
			Address	0			
			Snapshot	Disable			
			Enable	Disable			
			Record Channel	Enable			
		Video Masking	Record Delay	10 seconds			
			Relay out	Enable			
			Record Delay	10 seconds			

Satura				Default Setup
Setup				HDCC5M
			Send Email	Disable
			PTZ	Disable
		Activation Operatio n	N/A	
			Address	0
			Snapshot	Disable
	Als		Enable	Disable
	arm		Relay in	Alarm 1
			Anti- dither	5 seconds
			Sensor Type	NO
			Record Channel	Enable
		Alarm	Record Delay	10 seconds
			Relay out	Enable
		Alarm Delay	10 seconds	
		Send Email	Disable	
		PTZ	Disable	
			Activation Operatio n	N/A
			Address	0
			Snapshot	Disable
		Relay output		1
	Ab		Enable	Disable
	norr		Relay out	Enable
	nity	No SD Card	Relay out Delay	10 seconds
C		Send email	Disable	
		Enable	Disable	
			Capacity Limit	10%
	Capacity	Relay out	Enable	
		Warning	Relay out Delay	10 seconds
			Send Email	Disable
		SD Card	Enable	Disable

Sotup	Itom			Default Setup
Setup	ner	n		HDCC5M
		Error	Relay out	Enable
			Relay out Delay	10 seconds
			Send email	Disable
			Enable	Disable
			Record	Enable
		Disconnectio n	Record Delay	10 seconds
			Relay out	Enable
			Relay out Delay	10 seconds
			Enable	Disable
			Record	Enable
		IP Conflict	Record Delay	10 seconds
			Relay out	Enable
			Relay out Delay	10 seconds
Stora	Stora	FTP	Enable FTP	Disable
lge	lge		Server IP	N/A
			Port	21
			Usernam e	anonymity
			Passwor d	N/A
			Remote path	share
			Emergen cy (Local)	Disable
			Enable NAS	Disable
			Protocol	NFS
			Server IP	N/A
		Notwork	Port	21
		Network	Usernam e	N/A
			Passwor d	N/A
			Remote path	N/A
	Re	cord Control	Pack Duration	8 minutes
			Pre-	5 seconds

Setup Ite		m		Default Setup
Setup	itei			HDCC5M
			record	
			Disk Full	Overwrite
		Record Mode	Auto	
System	Gene		Device No	Device factory SN
m	eral	Local Host	Langua ge	English
			Video Standar d	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
	PT	Z	Protocol	PELCOD
			Address	1
	Baud Rate		Baud Rate	9600
			Data Bit	8
			Stop bit	1
			Parity	N/A
	Δ+	o Maintenanco	Auto Reboot	Enable
	Aut		Auto Delete	Disable

Coture	liam		Default Setup
Setup	item		HDCC5M
		Old Files	

# 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



The rear panel with the 100M fiber port

Figure 2-1

Please refer to the following sheet for detail information.

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

			TV monitor to view
			video.
AC 24V <b>/</b> DC 12V	Power port		• Power port.
			<ul> <li>Input 12V DC or</li> </ul>
			AC 24V
STATUS	Red light 也		• System boot up-
Indication Light			red light is on
			<ul> <li>System</li> </ul>
			upgrades-red light
			flashes
			<ul> <li>System resets-</li> </ul>
			red light flashes.
	Green light Ö		<ul> <li>Normal working</li> </ul>
			status-green light
			is on.
			<ul> <li>Display record</li> </ul>
			status: Record-
			green light
			flashes.
	Yellow light		• Detect the
			wireless device-
			yellow light is on.
6	3G		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.
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.
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

		JACK port.	from devices such as	
LANT	Network port	Ethernet port	<ul> <li>Connect to standard Ethernet cable.</li> <li>Support PoE function.</li> </ul>	
OPT	100M fiber port	155M single fiber dual-direction SFP fiber module	Transmit 100M Ethernet data.	
SD	SD card port		Connect to SD card. Note Vhen 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.	

÷	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 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.

### 2.4.2 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.

### 2.5 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.

WEB SERVI	CE va o							
				Live	PTZ	Setup	Alarm	Logout
⊳ Camera	Relay	Activation	Relay-out					
▶ Network		_						
⊤Event		Enable						
> Video Detect		Relay-in	Alarm1					
> Alarm		Working Period	Setup					
> Abnormity		Anti-Dither	0 Second ( 0~100 ) Sensor	Type NO 💽				
⊳ Storage								
System		Record Channel						
Information		Record Delay	10 Second ( 10~300 )					
		Relay-out						
		Alarm Delay	10 Second ( 10~300 )					
		Send E-Mail						
		PTZ	Activation None Address 0					
		Snapshot						
			Default Refresh	Save				

### 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".

![](_page_24_Figure_8.jpeg)

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.

![](_page_25_Figure_0.jpeg)

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.

![](_page_25_Figure_4.jpeg)

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.

![](_page_26_Figure_6.jpeg)

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 cannot 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 cannot 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.

![](_page_27_Picture_0.jpeg)

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.

![](_page_27_Picture_7.jpeg)

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.

![](_page_28_Picture_0.jpeg)

Figure 3-4

![](_page_28_Picture_2.jpeg)

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.

![](_page_28_Picture_10.jpeg)

Figure 3-6

### 3.3 3G Card

### 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.

![](_page_29_Figure_4.jpeg)

Figure 3-7

![](_page_29_Figure_6.jpeg)

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.

![](_page_29_Picture_14.jpeg)

Figure 3-9

## 3.4 3G/WIFI Antenna

### 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.

![](_page_30_Picture_4.jpeg)

Figure 3-10

![](_page_30_Figure_6.jpeg)

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.

![](_page_30_Picture_9.jpeg)

Figure 3-12

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.

![](_page_31_Picture_2.jpeg)

Figure 3-13

![](_page_31_Figure_4.jpeg)

Figure 3-14

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

![](_page_31_Picture_7.jpeg)

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.

![](_page_32_Picture_4.jpeg)

Figure 3-16

# 4 Quick Configuration

## 4.1 Overview

Quick configuration can search current IP address, modify IP address. Please note the search only applies to the IP addresses in the same segment.

## 4.2 Operation

.

Run the Hybrid NDVR, click the "Menu" button on the bottom right corner, select "Add/Del IP camera", and click "IPC search", you'll see an interface shown in Figure 4-1.

evice Name	IP Address	Port	Camera NO.	Connect Status	Registered?
ie cam Mee	Cam Del Cam			DG Series IPC S	earch Secucit
			DH Series IPC Search		
ID Series d	lecode card v	vork mo	ode pisable	ONVIF IPC Search	ear ch
eview auto	switch main/s	sub stre	am Disable	•	

Figure 4-1

Select "DH series IPC search", you can view device IP address, data port number, subnet mask, default gateway, MAC address and etc. See in Figure 4-2, click on one device and its detailed information will be shown there.

Dev No	IP	Port	Mac	Add To DVR	Dev Type
192.168.0.216	192.168.0.216	37777	90:02:a9:08:74:70	No	IPC-HD
92.168.0.217	192.168.0.217	37777	90:02:a9:07:59:3c	No	IPC-HD
192.168.0.210	192.168.0.210	37777	90:02:a9:07:51:44	No	IPC
192.168.0.181	192.168.0.181	37777	52:54:4c:d9:96:2f	No	IPC-HD
192.168.0.106	192.168.0.106	37777	52:54:4c:d9:2a:1f	No	IPC
192.168.0.97	192.168.0.97	37779	52:54:4c:fa:83:9d	No	DVR
192.168.0.211	192.168.0.211	37777	90:02:a9:07:51:46	No	IPC
192.168.0.214	192.168.0.214	37777	90:02:a9:03:0d:ab	No	SD65X
<b>C</b>		7			
Update IP List	Clear IP List	1	Server Name		
Stream Ty	/pe Double Stre	am	- Port		
U	ser admin		IP Address		
Pass *****		Mask Address			
			NetGate Address		
				AND ADD ADD	2

Figure 4-2

Select one IP address and then click "Add to DVR", then "Exit", you can see an interface shown in Figure4-3.

192.168.0.106       192.168.0.106       37777       1       connect ok       Yes         1<	Device Name	IP Address	Port	Camera NO.	Connect Status	Registered?
	192.168.0.106	192.168.0.106	37777	1	connect ok	Yes
Add Cam Mod Cam Der Cam	Add Cam Mo.	d Cam Del Cam				IPC Search
MD Series decode card work mode Disable	MD Series o	decode card w	, ork mo	de Disable	Ŧ	

Figure 4-3

After camera added, right click on it and select the "IP camera setup" item; you can go to the configuration interface.

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

In Figure 4-2, you can view device IP address, user name, password and port. Please modify the corresponding information to login.

Click the "IE setup", then you can login to the web interface.

![](_page_36_Picture_0.jpeg)

Figure 4-5

Please note to login with HTTP port (Default 80) in web client and Data port (Default 37777) in software. Otherwise, you cannot login the device.

For detailed information and operation instruction of the quick configuration tool, please refer to the <u>IP\_System\_Quick\_Start\_Guide</u>.

# 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. 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.

![](_page_37_Picture_10.jpeg)

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.

http://10.15.5.243/ - Windows Internet Explorer	🗖 🗖 🗖
Ele Edit. Yjew Fgvorites Iools Help	an 1997
🜀 Back - 🐑 - 🖹 📓 🏠 🔎 Search 👷 Favorites 🤣 🍰 - 🌉 - 🗾	
Address 🗿 http://10.15.5.243/	🔽 🔁 💿  👻 *
WEB SERVICE TO ()	
a Done	Second Intranet

![](_page_38_Figure_1.jpeg)

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.

Internet Options	Security Settings - Internet Zone
General Security Privacy Content Connections Programs Advanced	Settings
Select a zone to view or change security settings.	Disable     Enable
	Download signed ActiveX controls (not secure)     Disable
Internet Local intranet Trusted sites	Enable (not secure)     Prompt (recommended)
Internet         Sites           This zone is for Internet websites, except those listed in trusted and restricted zones.         Sites	Download unsigned ActiveX controls (not secure)     Disable (recommended)     Enable (not secure)     Promot
Security level for this zone Allowed levels for this zone: Medium to High	Initialize and script ActiveX controls not marked as safe for si     Disable (recommended)     Enable (not secure)     Prompt
Prompts before downloading potentially unsafe     content     Unsigned ActiveX controls will not be downloaded	Run ActiveX controls and plug-ins     Administrator approved     *Takes effect after you restart Internet Explorer
Custom level         Default level           Reset all zones to default level	Reset custom settings         Reset to:       Medium-high (default)         Reset to:       Reset
OK Cancel Apply	OK Cancel

Figure 5-3

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

![](_page_39_Picture_0.jpeg)

Figure 5-4

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

# 6 FAQ

Bug	
I cannot boot up the device or cannot 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 cannot 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 cannot 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.

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

# Appendix Toxic or Hazardous Materials or Elements

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.