

5 Megapixel Network Camera

User Manual

Please read this manual carefully before use of the products and preserve for reference purposes. Specifications are subject to change without notice*

- Please use the specified power supply to connect.
- Do not attempt to disassemble the camera; in order to prevent electric shock, do not remove screws or covers.
- There are no user-serviceable parts inside. Please contact the nearest service center as soon as possible if there is any failure.
- Avoid misuse and incorrect operation, avoid physical damage by force or vibration, and avoid applying heavy pressure which can cause damage to product.
- Do not use corrosive detergent to clean main body of the camera. If necessary, please use soft dry cloth to wipe dirt; for hard contamination, we recommend screen or lens cleaner and a microfiber cloth.
- Avoid aiming the camera directly towards extremely bright objects, such as the sun, as this may damage the image sensor.
- Please follow the setup, installation and care instructions
- Please operate the camera at the recommended temperatures and humidity. Do not install the camera in an environment that is too hot, too cold or too wet.
- Do not reverse the camera or the reversing image will be received.
- Do not power the camera beyond the power supply's stipulations.
- Keep away from heat sources such as radiators, heat registers, stove, etc. which may expose the camera to extreme heat.
- Do not expose the product to the direct airflow from an air conditioner for the camera may become too wet and cold.
- Product Instructions and Specifications are subject to change without notice. We may reserve the rights of amending any typographical errors and/or any inconsistencies with the latest version, software upgrades and product improvements, interpretation, and modifications. These changes will be published in the latest version of the manual without special notification. See product manufactures for additional information.
- In this product manual the company names of Microsoft, Apple and Google will be used. The pictures and screenshots in this manual are used ONLY to explain the usage of our product. The ownerships of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google belong to the above-mentioned companies.
- This manual is suitable for Sibell's IR water-proof network camera. All pictures and examples used in the manual are for reference only.

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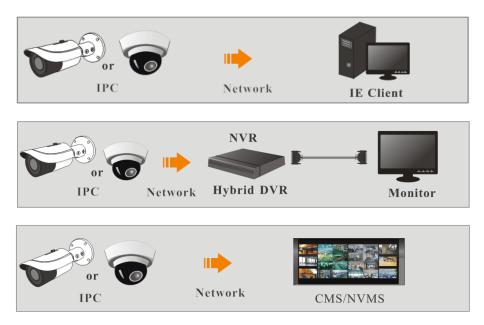
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This IP-CAMERA is designed for high performance CCTV security solutions. It adopts state of the art video processing chips. It utilizes some of the most advanced technologies in the market, such as video encoding and decoding technology, complies with the TCP/IP protocol, SoC, and more, in order to create a security system that is both stable and reliable. This product is widely used in security solutions such as banks, telecommunication systems, electrical power plants, judicial systems, factories, warehouses, suburban communities and more. In addition, it is also is an ideal choice for surveillance sites with mid-grade to high risks surveillance situations.

Main Features

- 5MP (2592×1944) full real time coding
- Max. resolution: 2592 × 1944
- ICR auto switch, true day/night
- 3D DNR, digital WDR
- ROI coding
- Supports smart phone, iPad, remote monitoring

Surveillance Application



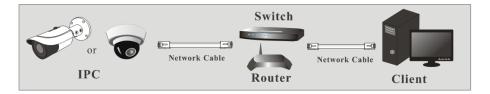
You may connect IP-Cam via LAN (Local Area Network) or WAN (Wide Area Network). The details are as follows:

2.1 LAN (Local Network)

In LAN, there are two ways to access IP-Cam: 1. access through IP-Tool; 2. directly access through IE browser.

2.1.1 Access through IP-Tool

Network connection:



(1)Make sure the PC and IP-Cam are connected to the LAN and the IP-Tool is installed in the PC from the CD.

(2)Double click the IP-Tool icon on the desktop to run this software as shown below:

	Device Network Search							
Immediate Refr	Immediate Refresh 👻 🧧 About							
Device Name	Device Type	Product Model	IP Address	Http Port	Data Port	Subnet	Modify Networ	k Parameter 🛛 🔺
name	IPC	unknown	192.168.226.201	80	9008	255.255.	Mac Address	CE :98 :23 :75 :35 :22
name	IPC		192.168.1.2		9008	255.255.	IP Address	192.168.226.201
name	IPC		192.168.1.3		9008	255.255.	Subnet Mask	255.255.255.0
							Gateway	192.168.226.1
								Modify
								administrator password, ar e network parameters.
							Restore IPC De	fault Configuration 🛛 🗸
Total Device	: 3	Local IP A	ddress:192.168.1.	4 Subnet Ma	isk:255.255.2	≥ 55.0	teway: 192.168.	1.1 DNS : 210.21.19

③ Modify the IP address. The default IP address of this camera is **192.168.226.201**. Click the information of the camera listed in the above table to show the network information on the right hand. Modify the IP address and gateway of the camera and make sure its network address is in the same local network segment as the computer's. Please modify the IP address of your device according to your local network configuration.

Modify Network Parameter 🛛 🔺				
Mac Address				
IP Address				
	192.168. 1 .201			
Subnet Mask	255.255.255.0			
Gateway	192.168. 1 . 1			
	Modify			

For example, the IP address of your computer is 192.168.1.4. So the IP address of the camera shall be changed to 192.168.1.**X**. After modification, please input the password of the administrator and click "Modify" button to modify the setting.

P

(B)

The default password of the administrator is "123456".

(4) Double click the IP address and then the system will pop up the IE browser to connect IP-CAM. IE browser will auto download the Active X control. After downloading, a login window will pop up as shown below.



Input the username and password to log in.

The default username is "admin"; the default password is "123456".

2.1.2 Directly Access through IE

The default network settings are as shown below: IP address: **192.168.226.201** Subnet Mask: **255.255.255.0** Gateway: **192.168.226.1** HTTP: **80** Data port: **9008** You may use the above default settings when you log in the camera for the first time. You may directly connect the camera to the computer through network cable.



① Manually set the IP address of the PC. The network segment should be as the same as the default settings of the IP camera. Open Network and Sharing Center in Windows Control Panel. Click "Change adapter settings," Right-click "Local Area Connection" and choose Properties, Left-click on "Internet Protocol TCP/IP v4," and click the properties button.

Select "Use the following IP address" and manually enter the following information: IP address: 192.168.226.4 Subnet Mask: 255.255.255.0

Vetwork Connections	- [X X
← → · ↑ 😰 « Net > Network Conn 🗸 🗸	Search Network Connections	Q
Organize Disable this network device Diagnose this of the device Diagnose the device	connection »	
Not connected	Area Connection k PCIe GBE Family Controller	
Local Area Connection Properties 🛛 🗙	Internet Protocol Version 4 (TCP/II	Pv4) Properties X
Networking Sharing	General	
Connect using:	this capability. Otherwise, you need for the appropriate IP settings.	tically
Elient for Microsoft Networks File and Printer Sharing for Microsoft Networks	Use the following IP address: IP address:	192 . 168 . 226 . 100
Gos Packet Scheduler Anternet Protocol Version 4 (TCP/IPv4)	Subnet mask: Default gateway:	255.255.255.0
Microsoft Network Adapter Multiplexor Protocol Microsoft LLDP Protocol Driver	Obtain DNS server address a	
Install Properties	Preferred DNS server:	· · · ·
Description	Alternate DNS server:	
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit	Advanced
OK Cancel		OK Cancel

② Open the IE browser and input the default address of IP-Cam and connect. The IE browser will download Active X control automatically.

**IMPORTANT: You must configure IE Internet options before the Active X control will install. Proceed to do the following in Internet Explorer:

Click on Tools (cog wheel top right corner) > Internet Options > Security > Click Custom

level > Scroll to **DOWNLOAD UNSIGNED ACTIVEX CONTROLS** > set it to **PROMPT** > Click OK.

2.2 WAN (Router)

Access through the router



① Make sure the camera is well connected via LAN and then login the camera via LAN and go to Config@Network Config@Port menu to set the port number. **Note: Only change the ports if there will be more than 1 camera installed at the location.

Network basic config	
HTTP Port	80
Data Port	9008
RTSP Port	554

Port Setup

(2)Go to Config \rightarrow Network Config \rightarrow IP Address menu to modify the IP address.

◯Obtain an 1	Obtain an IP address automatically						
🕘 Use the fol	Llowing IP address						
IP Address	192 . 168 . 1 . 201						
Subnet Mask	255 . 255 . 255 . 0	Gateway	192 . 168 . 1 . 1				
	Obtain DNS server address automatical						
- 🕑 Use the fol	llowing DNS server						
Preferred DNS server:	192 . 168 . 1 . 1	Alternate DNS server:	8.8.8.8				



③ Go to the router's management interface through IE browser to forward the IP address and port of the camera. Login to the router by typing in the default gateway address into the web address bar of the browser (ex. http://192.168.1.1). Navigate to

the Port forwarding, Virtual Server, Custom service, or Pinhole section in the router.

Port Range							
Application	Start		End	Protocol	IP Address	Enable	
1	9007	to	9008	Both 👻	192.168.1.201		
2	80	to	81	Both 💌	192.168.1.201	V	
3	10000	to	10001	Both 💌	192.168.1.166		
4	21000	to	21001	Both 💌	192.168.1.166		

Router Setup

④ Open the IE browser and input its WAN IP and http port to access. You can find the WAN IP address under the router status page. It is also called the "Internet IP address."

> Access through PPPoE dial-up

Network connection



You may access the camera through PPPoE auto dial-up. The setting steps are as follow: (1)Go to Config \rightarrow Network Config \rightarrow Port menu to set the port number.

2 Go to Config \rightarrow Network Config \rightarrow IP Address menu. Check "PPPoE" and the

(2)Go to Config →Network Config→IP Address menu. Check "PPPoE" and then input the user name and password which you can get from your internet service provider.

PPPoE Config		
PPP oE		
User Name	Password	

(3)Go to Config \rightarrow Network Config \rightarrow DDNS Config menu. Before you configure the DDNS, please apply for a domain name first. Please refer to 4.4.5 DDNS Configuration for detail information.

(4)Open the IE browser and input the domain name and http port to access.

> Access through static IP

Network connection

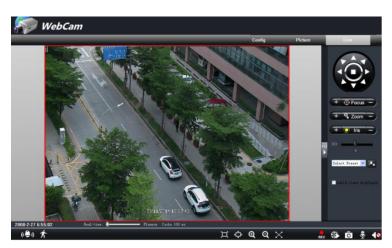


The setting steps are as follow:

(1)Go to Config→Network Config→Port menu to set the port number.

(2)Go to Config \rightarrow Network Config \rightarrow IP Address menu to set the IP address. Check "Use the following IP address" and then input the static IP address and other parameters.

③Open the IE browser and input its WAN IP and http port to access.



3

3.1 The Remote Preview Interface

Icon	Description	Icon	Description
	Motion alarm		Sensor alarm
	indicator icon		indicator icon
	Fix size		Start/Stop record
	Actual size		Playback
	Zoom in		Snap
	Zoom out		Talk
	Full screen		Enable audio

• When motion detection alarm is triggered, the people icon will turn red.

Right click to pop up a pull-down list as shown below: **Stream**: Three streams are optional.

Turn off the live: Click this item to close present live preview. **Enable audio:** Open the volume.

Full screen: The live preview picture will be full-screen display. Double click or click right mouse to return to the previous interface.

Online user: Display the current user connecting to the device.

System information: Display the device information: device name, firmware version, software build date, kernel version and hardware version.

Click PTZ extended button to unfold PTZ control panel. In remote preview interface, you can view the image from every direction by controlling PTZ panel.

1 2592x1944 25fps 2 704x576 25fps 3 352x288 25fps Turn off the live

Enable audio Full Screen Online User System Information The descriptions of the control panel are as follows:

Button	Description
	to rotate the dome upwards; to rotate the dome downwards; to rotate the dome towards left; to rotate the dome towards right; to rotate the dome diagonally up-left; ; to rotate the dome diagonally up-right; to rotate the dome diagonally down-left; to rotate the dome diagonally down-right; to stop rotating the dome.
>>> <	Drag the scroll bar to adjust rotating speed of the dome.
	Focus button. Click button to have long focus and click to have short focus so that you can adjust the image clearly.
	Zoom button. Click to zoom in the image; click to zoom out the image.
	Iris button. Click to increase light of the dome; click to decrease light of the dome.

3.2 Playback

Before you play the record files, please make sure you have recorded. You can click button to record. Then click button to pop up a video player. Double click the record file to play the video as shown below.



1	Play	5	Next frame	9	Zoom out
2	Pause	6	The previous file	10	Full screen
3	Stop	7	The next file	11	Path
4	Forward	8	Zoom in	12	Volume

3.3 Snap Pictures

Select the picture number, and then click "Snap" icon as shown below:



Single Snap

Select the image frame number pull down list box, such as 2, and check "Title" and "Time" to show capture title and time on the snap pictures simultaneously.



Multi-picture Snap

Functions of remote configurations include System Configuration, Video Configuration, PTZ Configuration, Alarm Configuration, Network Configuration and Advanced Configuration. You should select the menu on the left and then set up the relative parameters.

4.1 System Configuration

The "System configuration" includes three submenus: Basic Information, Date & Time and SD card.

4.1.1 Basic Information

In the "Basic Information" interface, you can set up the device name and can also check the relative information of the server.

Setting steps:

- 1. Clicking the "Config" icon will appear the menu list.
- 2. Clicking the "Basic Information" will pop up a window as shown below:
- 3. Input the name of the device in the "Device name" text box.
- 4. Press the "Save" button to save the settings.

System Infomation			
Software Version	3.4.2.1 beta3	Software Build Date	2015-6-5 (YYYY-MM-DD)
Kernel Version	20150426	Hardware Version	1.3
MAC	00:18:AE:52:66:53	Onvif Version	2.3
Device name	number2	Maximum number of	10

Please refer to the following table for parameters and instructions of server basic configuration.

Parameter	Meaning
Software version	The software of the device
Software build date	The software build date of the
	device
Kernel version	The kernel version of the device
Hardware version	The hardware version of the device
Mac Address	MAC address of device
Maximum number of user	Support max 10 users to access
Device name	Name of the device.

4.1.2 Date & Time

Setting steps:

1. Go to System Config \rightarrow Date & Time menu as shown below.

Date and Time	setting				
Time Zone	GMT+08 (Beiji DST Enable	ng, Hong Kong,	Shanghai, Tai	pei)	*
-Timing mode-					
Set Ti	e 2014-	6-14 🗸 11	:30:59 😂	PC time	
🔿 NTP					
NTP Se	ver time.w	indows.com			

2. Set time zone.

- 3. Enable DST mode as required.
- 4. Set time. You may set time manually or enable NTP.

4.1.3 SD Card

1. Go to "System Configuration" \rightarrow "SD Card" as shown below:

SD Card		_	_
State:	Available		
Used		Total Size	956 MB
Unused		Used	4 MB
		Unused	952 MB
Format 9	SD card E	ect card	

The first time you used the SD card, you should click "Format SD card". Click "Eject card" to stop writing data to SD card. Then the SD card can be ejected safely.

(P)

Note: Using of SD card function should be coordinated with motion or sensor alarm. When alarm is triggered, the system will automatically snap picture and save the picture into SD card.

4.2 Video Configuration

Camera Configuration includes six submenus: Camera, Video Stream, OSD Config, Video Mask, ROI Config and Lens Control.

4.2.1 Camera

Setting steps:

1.Go to "Video Configuration" \rightarrow "Camera" interface as shown below.

60HZ	~					
O	50	Contrast -		- 55		Load Default
0	55	Saturation 🤄	a	- 55		
ce Auto		~			-11	
					A state of the sta	
• □ ·	0	- 128				
• • • • •	0	- 128 - 128			06/11/2015 16:05:14	
		50 55			50 Centrest 55	50 Centrast 555

- 2. You may adjust frequency, brightness, contrast, hue and saturation of the picture.
- 3. Select white balance mode.
- 4. Wide dynamic, sharpen, and denoise are adjustable.
- 5. Set day-night mode, sensitivity, and infrared mode.
- 6. You may enable the image mirror and image overturn function.
- 7. Press the "Save" button to save the settings.

4.2.2 Video Stream

Go to "Video configuration" \rightarrow "Video Stream" to see an interface as shown below.

Vid	eo Stream						
	Resolution	Frane rate	Bitrate type	Video quality	Bitrate	I Frane Interval	Video Encoding
1	2592×1944	• 25	CBR	▼ Highest	🗾 6144 💌 Kbps	100	H265 💌
2	704×576	▼ 25	- CBR	▼ Highest	- 1024 - Kbps	100	H265 💌
3	352×240	• 25	CBR	✓ Highest	🗾 1024 💌 Kbps	100	H265 💌
	Alarm Picture Size 🔽 Video encod	704x576 We slice split	-		dio Encoding G. 711. dio In Type LIN	•	

Three video streams can be adjustable.

Resolution: The higher the resolution is, the clearer the image is.

Frame rate: The higher the frame rate is, the more fluency the video is. However, more storage room will be taken up.

Bitrate type: Including CBR and VBR. CBR means that no matter how changeable the video resources are, the compression bitrate keeps constant. This will not only facilitate the image quality better in a constant bitrate but also help to calculate the capacity of the recording. VBR means that the compression bitrate can be adjustable according to the change of the video resources. This will help to optimize the network bandwidth.

Video Quality: When VBR is selected, you need to choose image quality. The higher the image quality you choose, the more bitrate will be required.

Bitrate: Please choose it according to the actual network situation.

I Frame interval: It is recommended to use the default value. If the value is to high, the read speed of the group of pictures will be slow resulting in the quality loss of the video.

Video encoding profile: Baseline and main profile are optional. Baseline profile is mainly used in interactive application with low complexity and delay. Main profile is mainly used for higher coding requirement.

Alarm picture size: Please select it according to the actual situation.

Video encode slice split: If enabled, you may get more fluent image even though using the low-performance PC.

Audio Encoding: G.711A and G.711U are selectable.

Audio In Type: MIC and LIN are selectable.

4.2.3 OSD Configuration

Go to "Video Config" \rightarrow "OSD Config" menu to display the interface as shown below.

OSD Setting	
Show Time Stamp	
Date Format	им-dd-үүүү
Show device nam	•
Device name	nane
Custom OSD	
OSD Content	camera

You may set

time stamp, device name and custom OSD here. Drag the time stamp and custom OSD to set their position. Then press the "Save" button to save the settings.

4.2.4 Video Mask

Go to "Video Config" \rightarrow "Video Mask" menu to display the interface. You can set 4 mask areas at most.



To set up video mask

- 1. Enable video mask.
- 2. Click "Draw" button and then drag the mouse to draw the video mask area.
- 3. Click "Save" button to save the settings.
- 4. Return to the live to see the following picture.



Clear the video mask:

Go to video mask menu and then click "Clear" button to delete the current video mask area.

4.2.5 ROI Configuration

To set up ROI

- 1. Go to Video Config \rightarrow ROI Config menu.
- 2. Check "Enable" and then click "Draw" button.
- 3. Drag the mouse to set the ROI area.
- 4. Set the level.

5. Click "Save" button to save the settings.



Now, you will see the selected ROI area is clearer than other areas, especially in low bitrate condition.



4.3 PTZ Configuration

PTZ Configuration includes two submenus: Protocol and Preset.

4.3.1 Protocol

1. Go to "PTZ Configuration" \rightarrow "Protocol" interface as shown below:

Protocol Config		
🗹 Enable / Dis	able PTZ Controls	
Protocol:	PELCOP	*
Address:	4	
Baud Rate:	9600	*

2. Input the protocol, address, and baud rate according to the speed dome.

4.3.2 Preset Configuration

1. Go to "PTZ Configuration" \rightarrow "Preset" to see an interface as shown below:



Button	Meanings
	to rotate the dome upwards; to rotate the dome downwards; to rotate the
	dome towards left; to rotate the dome towards right; to stop rotating the
	dome.
	Focus button. Click button to have long focus; click button to have
	short focus.
	Zoom button. Click button to zoom in the locale picture ; click button to
	zoom out the locale picture.
	Iris button. Click button to increase light of the dome; click 🗔 button to
	decrease the light of the dome.
	Drag the scroll bar to adjust rotating speed of the dome.

2. Input the preset number and set its position by controlling PTZ control panel and then click Add button to add preset point into the Available position list.

Select the preset in the pull down list of the Available position and click Go to button to move the dome to this preset point; click Delete button to delete the checked preset point.
 After finishing setting, click Save button to save the settings.

4.4 Alarm Configuration

Alarm configuration includes seven submenus: Motion Detection Area, Motion Detection Trigger, Motion Detection Schedule, Alarm Input Trigger, Alarm Input Schedule, Alarm Out and Alarm Server.

4.4.1 Motion Detection Area

1. Go to "Alarm configuration" \rightarrow "Motion Detection Area" to see an interface as below.

2. Move the "Sensitivity" scroll bar to set up the motion trace sensitivity.

3. Check the "Add", press the "Ctrl" button and move mouse to select the motion detection

area. Select "Erase" and move the mouse to clear all motion detection area. 4. Press the "Save" button to save the settings.

Sens	51 t	17	1 t 3	ſ		-							1	1								
25	1	100		20	-	1	2									ar	1	-			Select	411
	2.1													c.							Derect	
														t.			1	2			Clear	A11
			-										6	C.			E.					
												÷		L.						Int	rert Se	lection
					F	0			ī		1					10	1					
						Ē			7							1	ġ.			0	Add	
						5		iii						ú		ř.						
				T.		M		Z	The second					R	Ê					0	Erase	
							7		Ū.					k			1			Prore	C+v1	key drag
						1			1			ĥ	8			Ŵ	뗾			mouse	to sel	ect ac
						1					1	1					Z			motion	regio	n.)
					Ł	٢.	割		Ħ				間		6	6						
100					ź			=									D.S.					

4.4.2 Motion Detection Trigger

1. Go to "Alarm Configuration" \rightarrow "Motion Detection Trigger" to display an interface as shown below.

- 2. Check "Enable alarm" check box. Then motion based alarm is activated.
- 3. Set alarm holding time.
- 4. Set alarm trigger options.

Motion alarm setting			
✓ Enable alarm Trigger alarm out Alarm out1	Alarm Holding	5 Seconds	-
✓ Trigger snap ✓ Trigger Email – Receival email address	T Attach pick	ture	
EMAIL Subject			
✓ Trigger FTP - Server address	🔲 Uploading pictur	e	

Alarm Out: If selected, this would trigger the external relay output on detecting a motion based alarm.

Trigger Snap: If selected, the system will snap images on an alarm and save them in SD card. **Trigger Email**: If the email and attach picture check-boxes are checked (Email address shall be set first in the Mail config interface), the triggered snap pictures and event will be sent to the designated email address(es).

Trigger FTP: If "Uploading picture" is checked, the triggered snap pictures will be sent into FTP server address. Please refer to FTP configuration chapter for more details.

5. Press the "Save" button to save the settings.

4.4.3 Motion Detection Schedule

Go to "Alarm configuration" \rightarrow "Motion Detection schedule" interface as shown below.

Motion schedule	setting
~Week Schedule-	◯ Erase ③ Add
Sunday	
Monday	
	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 Included and and and and and and and and and an
Tuesday	
Wednesday	
Thursday	
	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Friday	
	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Saturday	
Holiday Schedule	
Date:	12/17/2009 C Add
Holiday	

Week schedule

You can set the alarm time from Monday to Sunday for alarm everyday in one week.

Add: Add the schedule for a special day.

Erase: Delete holiday schedule.

Day schedule

You can set alarm time for alarm in some time of special day, such as holiday.

1. Select a date at the "Date" pull down list, press "Add" button to add that date to the list box on the right side and then move the scroll bar to set the schedule of that day.

2. Select a date in the list box on the right side, and press "Erase" to remove the schedule on that day.

Press the "Save" button to save the settings.

Note: Holiday schedule is priority to Week schedule.

4.4.4 Alarm Input Trigger

1. Enter "Alarm Configuration" → "Alarm Input Trigger" to see a screen as shown below:

Sensor alarm setting						
Sensor	Sensor 1	-				
Sensor Name	Sensor1		Alarm Type	•	NO	-
Enable alarm Trigger alarm out			Alarm Holdi	ing	20 Seconds	•
Alarm out1						
I Trigger snap						
🥅 Trigger Email						
🔲 Trigger FTP						
Apply settings to		All	-	Сору		

2. Select the sensor at the "Sensor" pull down list and set the sensor name and alarm type: NO and NC.

3. Enable alarm and select alarm holding time.

4. Set alarm trigger options. The setting steps are the same as that of motion detection trigger. Please refer to motion detection trigger chapter for details.

5. Apply settings to all by clicking "Copy" button to quickly set the same settings for all sensors.

4.4.5 Alarm Input Schedule

Go to "Alarm Configuration"→"Alarm Input Schedule" as shown below:

Sensor schedu	
Sensor	Sensor1 🔽 C Erase 🕫 Add
-Week Schedule	
	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Sun	
Mon	
Tue	
Wed	
MABO	
Thu	
Fri	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
FI	
Sat	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Sat	
Holiday Schedul	e
Date	7/ 1/2013 ÷ Add
	Delete
Holiday	
Copy settings	
Apply settings to	

1. Select the sensor.

2. The following setup steps are similar to Motion Detection Schedule's. Please refer to Motion Detection Schedule chapter for more details.

4.4.6 Alarm Out

1. Go to "Alarm configuration" \rightarrow "Alarm output" as shown below:

Alarm out setting		
Alaram Out	Alarm out1	•
Alarm Holding Time	10 Seconds	•

2. Select alarm holding time and alarm name at the "Alarm out" and "Alarm holding time" pull down list box respectively.

3. Press the "Save" button to save the settings.

4.4.7 Alarm Server

Go to "Alarm configuration" → "Alarm Server" interface as shown below.

You may input the alarm server address and port. When the alarm happens, the camera will automatically transfer the alarm event to the alarm server. If the alarm server is not used, there is no need for you to configure here.

Alarm Server	
Server Address	
Port	80

4.5 Network Configuration

Network configuration includes nine submenus: Port, IP Address, Server Configuration, IP Notify, DDNS Config, RTSP, UPNP, Mail configuration, and FTP.

4.5.1 Port

1. Go to "Network config" \rightarrow "Port" to see the interface as shown below. *Note: you do not need to change the ports if only 1 camera is being installed.

Network basic config		
HTTP Port	88	
Data Port	9008	
RTSP Port	554	

- 2. Input port number for IE access in the "HTTP Port" textbox.
- 3. Input the port number for audio & video transmission in the "Data Port" textbox.

4.5.2 IP Address

1. Go to "Network Configuration" \rightarrow "IP Address".

IP Config				
◯Obtain an]	IP address automatically			
– 💽 Use the fol	lowing IP address			
IP Address	192 . 168 . 1 . 201			
Subnet Mask	255 . 255 . 255 . 0	Gateway	192 . 168 . 1	. 1
• Use the fol Preferred DNS server:	server address automati Llowing DNS server 192 . 168 . 1 . 1	al Alternate DNS server:	8.8.8	. 8
PPPoE Config				
PPPoE				
User Name		Password		

There are two options for IP setup: obtain an IP address auto by DHCP protocol and use the following IP address. You may choose one of options as required.

Use the following IP address: display the IP address, subnet mask, gateway and DNS of the device.

PPPoE: User needs to input the user name and password for dial-up internet.

Firstly, log in IE clients and then enter user name and password of PPPoE, save the setting and exit. Secondly, set up IP address change notice. Thirdly, connect with Modem. Then the device will dial up internet automatically.

Press the "Save" button to save the settings.

4.5.3 Server Configuration

Go to "Network Configuration" \rightarrow "Server Config".

Server Config		
🔽 Do you want l	IPCamera to connect Server	
Server Address		
Server Port	0	
Device ID	1	

- 1. Check "Do you want IP Camera to connect Server".
- 2. Check the IP address and port of the transfer media server in the CMS/NVMS. Then enable

the auto report in the CMS/NVMS when adding a new device. Next, self-define the device ID and input the remaining information of the device in the CMS/NVMS.

3. Input the above-mentioned server IP, server port and device ID in the responding boxes.

4. Click "Save" button to save the settings.

4.5.4 IP Notify

1. Go to "Network Configuration" \rightarrow "IP Notify" to see a tab as shown below.

2. If the "Enable notifying change of IP" is selected, when the IP address of the device is changed, a new IP address will be sent to the appointed mailbox automatically; If "FTP" is selected, when the IP address of the device was changed, a new IP address will be sent to FTP server.

IP change notification	
Enable notifying change of IP	FTP
Receival email address	Server address

4.5.5 **DDNS** Configuration

1. Go to "Network Configuration" \rightarrow "DDNS Configuration" tab as shown below.

DDNS config	
	Enable DDNS
DDNS Server Type	www.dyndns.com 💌
User Name	
Password	
Domain	

2. Apply for a domain name. Take WWW. dvrdydns.com for example.

Input <u>www.dvrdydns.com</u> in the IE address bar to visit its website. Then click "Registration" button to register as shown below.

NEW USER REGIST	RATION
USER NAME	XXXX
PASSWORD	•••••
PASSWORD CONFIRM	•••••
FIRST NAME	ХХХ
LAST NAME	xxx
SECURITY QUESTION.	My first phone number.
ANSWER	XXXXXXXX
CONFIRM YOU'RE HUMAN	New Capitcha Enter the text you see above
	Submit Reset

Create domain name.

You must create a	domain name to continue.
Domain name must start with (a-z, 0-9). Ca is not case-sensitive.	nnot end or start, but may contain a hyphen and
, dvrdydns.com 👻	Request Domain

After you successfully request your domain name, you will see your domain in the list.

		Click a name to edit your domain settings.
NAME	STATUS	DOMAIN
654321ABC	Ø	654321abc.dvrdydns.com
Last Update: Not yet updated IP	Address: 210.21.2	129.138

3. Select the server type and then input the username, password and domain name you apply for in the DDNS configuration interface.

4. Click "Save" button to save the settings.

4.5.6 RTSP

Go to "Network Configuration" \rightarrow "RTSP" interface as shown below.

RTSP	
🗹 Enable RTSI	'server
RTSP Port	554
RTSP Address	rtsp://IP or domain name:port/profile1
	rtsp://IP or domain name:port/profile2
	rtsp://IP or domain name:port/profile3
Enable anos	nymous viewer login (no user name or password required)

Select "Enable RTSP server".

RTSP Port: Access Port of the streaming media. The default number is 554. RTSP Address: The RTSP address you need to input in the media player. You can also choose to enable anonymous viewer login.

4.5.7 UPNP

Go to "Network Configuration" \rightarrow "UPNP" interface as shown below. Select "Enable UPNP" and then input friendly name.

VPNP Setting	
🖌 Enable UPNP	
Friendly Name	

Then double click "Network" icon on the desktop of the PC to see an icon with the friendly name and IP address of the camera. You may quickly access the device by double clicking this icon.

4.5.8 Mail configuration

Go to "Network Configuration" \rightarrow "Mail configuration" interface.

From Email:	test10007@gmail.com		
User Name :	test10007@gmail.com	Password :	*****
Server address:	smtp.gmail.com	Secure Connection	not required
SMTP Port:	25 Use default	test your a	ccount settings
Receival email	address:		
Receival em	ail address:		

- 1. From Email: sender's e-mail address.
- 2. User name and password: sender's user name and password.
- 3. Server address: SMTP server address (ex. smtp.gmailx.com).

4. Select the secure connection type at the Secure Connection pull down list according to the smtp server authentication requirements.

- 5. Receival email address list: List of all receiving email addresses
- 6. Receival email address: Type in a receiving email address

7. After all, parameters set up, you can click "Test your account settings". If email sent successful, a "Test Successful" window will pop up, if not, users can try other email addresses or check the smtp settings.

Notice: If you change the static IP into PPPoE and select mailbox, there will be an e-mail sent to your mail box for notifying a new IP address.

4.5.9 FTP Setting

Go to Network Configuration \rightarrow FTP Setting interface as shown below.

FTP Setting					
Server name	Server address	Port	User Name	Upload path:	
			Add	Modify De	elete Test

1. Add: Click Add button to input FTP server's server name, address, port number, user name, password, and upload path, click OK to confirm the setting.

- 2. Modify: Click this button to change some information of the FTP server.
- 3. Delete: Select certain FTP account. Click this button to delete this account.
- 4. Test: Select certain FTP account. Click this button to test its validity.

Please refer to the following table for parameters and instructions of FTP configuration.

Paramete	Meaning	
r		
Server	The name of the FTP server	
name		
Server	The address of the FTP	
address	server	
Port	The port number of the FTP	
	server	
User	The user name of the FTP	
name	server	
Password	The password of the FTP	
	server	
Path	The save path for FTP files	
	Add	

Add		×
Server name:		
Server address:		
Port:	21	
User Name :		
Password :		
Confirm Password:		
Path		
ОК	Cancel	

4.6 Advanced Configuration

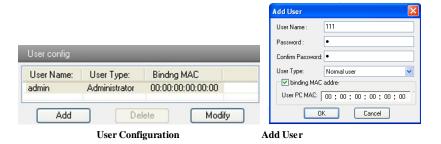
Advanced configuration includes five submenus: User Configuration, Security Configuration, Configure Backup & Restore, Reboot, and Upgrade.

4.6.1 User Configuration

Go to Advanced configuration \rightarrow User Configuration interface.

Add user:

1. Clicking "Add" button pops up "Add user" dialog box.



Note: After binding physical address to the IP-CAM, you can access the device on this PC in network only. If the MAC address is "00:00:00:00:00:00", it means the camera can be connected to any computers.

- 2. Input user name in "User Name" textbox (only letters).
- 3. Input characters in "Password" and "Confirm Password" textbox (letters or numbers).
- 4. Input the MAC address of the PC in "Binding MAC address" textbox.
- 5. Click "OK" button and then the new added user will display in the user list.

Modify user:

1. Select the user which needs to modify password and physical address in the user configuration list box.

2. Clicking "Modify" button will pop up "Modify user" dialog box as shown below.

Modify		×
🖂 🖂 change passw	vord	
User Name :	111 Password :	
New Password:	Confirm	
🔽 binding MAC a	address	
User PC MAC:	00 : 00 : 00 : 00 : 00 : 00	
	OK Cancel	

Modify User

3. Input original password of this user in the "Password" text box.

4. Input new password in the "New password" and "Confirmation" text box.

5. Input computer's physical address which is used to access the server in the "User PC MAC" text box.

6. Click "OK" button to modify password and binding MAC address successfully.

Delete user:

1. Select the user which needs to delete in the user configuration list box.

2. Clicking "Delete" button will pop up a confirm dialog box. Then click "OK" to delete the user.

Parameter	Meaning	
User Name	User name to operate the logon client end	
User Type	Type of users, normal user, advanced user and super administrator	
Binding MAC address	The MAC addresses of user access the server which should set up according to actual MAC address of server.	
Password	Password to log in the client terminal	
Confirm Password to log in the client terminal		
Password		

4.6.2 Security Configuration

1. Go to Advanced Configuration \rightarrow Security Configuration to see a tab shown below.

2. Check "Enable IP address" check box, select "Deny the following IP address", input IP address in the IP address list box and click "Add" button. Then this IP address will display in the list box; the operation step of "Allow the following IP address" is the same with "Deny the following IP address"

3. Select the IP address which needs to be deleted from the IP address list box and click "Delete" button to delete that IP address.

4. Check "Enable MAC address" check box, select "Deny the following MAC address" or "Allow the following MAC address" input MAC address in the MAC address list box and click "Add" button. Then this MAC address will display in the list box.

5. Select the MAC address which needs to be deleted from the MAC address list box and click "Delete" button to delete that MAC address.

6. Click "Save" button to save the above setting.

IP address filter setting	
🔽 Enable IP address filtering	
On the following IP address	Allow the following IP address
	Add Delete
MAC filter setting	
MAC filter setting Enable MAC address filtering	_
Enable MAC address filtering	Allow the following MAC address
Enable MAC address filtering	Allow the following MAC address
Enable MAC address filtering	

4.6.3 Configure Backup & Restore

Go to Advanced configuration→Configure Backup & Restore Interface.

• Import & Export Configuration:

You can import or export the setting information from PC or to device.

1. Click "Browse" to select save path for import or export information on PC.

2. You can import or export all setting information to PC. "User Configuration" and "Network Configuration," cannot be exported.

Import setting		
Path		Browse
	All configuration exception for 💽 🔽 User Config	Network Config
	Import setting	
Export setting		
	Export setting	
Default setting		
	Load Default	

• Default Configuration

Click "Load default" button to restore all system settings to the default status.

4.6.4 Reboot

Go to Advanced configuration—Reboot to see an interface as shown below Click "Reboot" button to reboot the device.

Reboot		
	Reboot	

4.6.5 Upgrade

Go to Advanced Configuration—Upgrade interface as shown below.



1. Click "Browse" button to select the save path of the upgrade file.

2. Click "Upgrade server firmware" button to start upgrading the application program.

3. The device will restart automatically.

4. After you successfully update the software, click "OK" button to close IE and then re-open IE to connect IP-CAM.

Notice: You can't disconnect to PC or close the IP-CAM during upgrade.

Click "Picture" icon and search the images saved in the SD card.

- 1. Set time: Select date in the "Calendar" and choose the start and end time.
- 2. Choose event "Motion" or "Sensor".
- 3. Click "Search" button to search the picture.
- 4. Double click a filename or select a filename and then click "View" button in the list box to view captured pictures.



Item	Buttons	Explanations
1		Close: Select certain picture and click this button to close this picture.
2	5	Close all: Click this button to close all pictures viewing.
3		Save: Click this button to select the save path of the picture file on the PC for saving the current picture.
4		Save all: Click this button to select the save path of the picture files on PC for saving all pictures.
5		Fit size: The picture will fit on screen by clicking this button.
6	2	Actual size: Click this button to display the actual size of the picture as required.
7	_₽	Zoom in: Click this button to amplify the picture.
8	2	Zoom out: Click this button to zoom out the picture.
9		Slide play: Click this button to play the picture in slide show mode.
10		Stop: Click this button to stop slide show.
11		Play speed: Play speed of the slide show.

Q: How to find my password if I forget it?

A: Reset the device to the default factory settings. Default IP: 192.168.226.201 User name: admin Password: 123456

Q: Fail to connect devices through IE browser, why?

A: Network is not well connected. Please check the connection and make sure it is connected well.

B: IP is not available. Reset the valid IP.

C: Web port number has been revised: contact administrator to get the correct port number.

D: Exclude the above reasons. Recover default setting by IP-Tool.

Note: Default IP: 192.168.226.201, mask number: 255.255.255.0

Q: IP tool cannot search devices, why?

A: It may be caused by the anti-virus software in your computer. Please exit it and try to search device again.

Q: IE cannot download ActiveX control. How can I do?

a.Proceed to do the following in Internet Explorer:

Click on Tools (cog wheel top right corner) > Internet Options > Security > Click Custom level > Scroll to **DOWNLOAD UNSIGNED ACTIVEX CONTROLS** > set it to **PROMPT** > Click OK.

b. Other plug-ins or anti-virus blocks ActiveX. Please temporarily disable your anti-virus Widnows Firewall/Defender.

Q: No sound can be heard, why?

A: Audio input device is not connected. Please connect and try again.

B: Audio function is not enabled at the corresponding channel. Please check AUDIO item to enable this function.

Appendix 1 — Installation of Water-proof Rubber Plug

For the purpose of better water-proof, the rubber plugs are attached to some network bullet cameras. You may mount the rubber plugs to the mounting base of the camera as required when installing. The installation instructions are as follows.





Appendix 2 — Specifications

Specification /Model		Network Box Camera			
	Image Sensor	1/1.8 " CMOS			
	Image Size	2592×1944			
	Electronic Shutter	1/25s~1/100000s			
-	Auto Iris	DC drive			
-	Min. Ilumination	Color: 0.01lux@F1.2, AGC ON: B/W: 0.001lux@F1.2, AGC ON			
Camera	Lens	NO			
	Lens Mount	C/CS			
	Day&Night	ICR			
	WDR	Digital WDR			
	Digital NR	3D DNR			
	Video Compression	H.265/H.264/MJPEG			
-	H.265Type	Main Profile @Leve4.1 High Tier			
	Video Bit Rate	64Kbps~10Mbps			
-	Resolution	5MP(2592×1944), 2K(2560×1440), 1080P(1920×1080), 720P(1280×720), D1, CIF, 480×240			
Image	Main Stream	60Hz: 5MP(1~30fps) / 2K(1~30fps) / 1080P(1~30fps) / 720P(1~30fps) 50Hz: 5MP(1~25fps) / 2K(1~25fps) / 1080P(1~25fps) / 720P(1~25fps)			
	Image Settings	Saturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR, etc. adjustable through client or web browser			
	ROI	Support			
	Network	1 RJ45 10M/100M/100M port			
	Video	CVBS output (BNC ×1)			
Interfaces	Auido	MIC IN×1; MIC OUT×1			
	Storage	Support SD card, up to 64GB			
	RS485	Support			
	Alarm	1CH alarm input; 1 CH alarm output			
	Remote Monitoring	IE browser, CMS remote control			
	Online Connection	Support simultaneous monitoring for up to 10 users and multi-stream transmission			
	Network Protocol	TCP/IP, UDP, DHCP, NTP, RTSP, PPPoE, DDNS, SMTP, FTP			
-	Interface Protocol	ONVIF, GB-T/28181-2011			
	Storge	SD card storage; network remote storage			
	Smart Alarm	Motion alarm; sensor alarm			
Fucntion	Power	DC12V/PoE; AC24V optional			
	Power Consumption	< 3W(ICR OFF)			
	Opterating Environment	Temperature: -20°C~50°C; Humidity: 10%~90%			
	Dimension (mm)	W70mm × D145mm ×H60mm			
	Installation	Wall mounting			

Specification /Model		50m IR Water-proof Bullet Network		70m IR Water-proof Bullet Network			
		Camera		Car	nera		
	Image Sensor	1/1.8 " CMOS					
	Image Size	2592×1944					
	Electronic Shutter	1/25s~1/100000s					
	Auto Iris	Fixed Iris					
	Min. Ilumination	0.01lux@F1.2, AGC ON: 0 lux with IR					
Camera	Lens	5mm@F2.2, angle of view: 72°	3.6~10mm@F1.4, angle of view: 83.7°~36.7°	5mm@F2.2, angle of view: 72°	3.6~10mm@F1.4, angle of view: 83.7°~36.7°		
	Lens Mount	CS	Ø14	CS	Ø14		
	Day&Night	ICR					
	WDR	Digital WDR					
	Digital NR	3D DNR					
	Angle Adjustment	Any angle					
	Video Compression	H.265/H.264/MJPEG					
	Н.265 Туре	Main Profile @Leve4.1 High Tier					
	Video Bit Rate	64Kbps~10Mbps					
	Resolution	5MP(2592×1944), 2K(2560×1440), 1080P(1920×1080), 720P(1280×720), D1, CIF,					
Image	Main Stream	480×240 60Hz: 5MP(1~30fps) / 2K(1~30fps) / 1080P(1~30fps) / 720P(1~30fps) 50Hz: 5MP(1~25fps) / 2K(1~25fps) / 1080P(1~25fps) / 720P(1~25fps)					
	Image Settings	Saturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR, etc. adjustable through client or web browser					
	ROI	Support					
	Network	1 RJ45 10M/100M/100M port					
	Video	CVBS output (BNC ×1)					
Interfaces	Auido	MIC IN×1; MIC OUT×1					
	Storage RS485	Support TF card, up to 64GB Support SD card, up to 64GB Support					
	Alarm	1CH alarm input; 1 CH alarm output					
	Remote Monitoring	IE browser, CMS remote control					
	Online Connection	Support simultaneous monitoring for up to10 users and multi-stream transmission					
	Network Protocol	TCP/IP, UDP, DHCP, NTP, RTSP, PPPoE, DDNS, SMTP, FTP					
Fucntion	Interface Protocol	ONVIF, GB-T/28181-2011					
	Storge	TF card storage; network remote storage SD card storage; network remote storage					
	Smart Alarm	Motion alarm; sense	or alarm				
	IR Distance	30~50 m		50~70 m			
	Protection Grade	IP66					
	Power	DC12V/PoE					
Others	Power Consumption	<pre>< 3W(ICR OFF); < 7.5W(ICR ON)</pre>					
	Opterating Environment	Temperature: -20°C~50°C; Humidity: 10%~90%					
	Dimension (mm)	Ø109mm×284mm Ø109mm×360mm					
	Weight (net)	1132g 1717g					
	Installation	Wall mounting; pendent mounting					
	instanation	wan mounting, pendent mounting					

Resolution 480×240 Image 60Hz: 5MP(1~30fps) / 2K(1~30fps) / 1080P(1~30fps) / 720P(1~30fps) Main Stream 50Hz: 5MP(1~25fps) / 2K(1~25fps) / 1080P(1~25fps) / 720P(1~25fps)	Specification /Model		Vandal-proof Dome Netowrk Camera					
		Image Sensor						
Electronic Shutter1/25s-1/100000sAuto IrisFixed IrisColor: 0.01hx:@F1.2, AGC ON; B.W: 0.001hx:@F1.2, AGC ON; B.W: 0.001hy:@F1.2,	l							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		-						
PatternaPatternaColor: $0.01ax@F1.2$, AGC ON; BW: $0.001ax@F1.2$, AGC ON; BW: $0.001ax@F1.2$, AGC ON; BW: $0.001ax@F1.2$, AGC ON; BW: $0.01ax@F1.2$, AGC ON; BW: $0.01aW@F1.2$, AGC ON; BW:								
Mm. IluminationUnititize P12, AGC ON: 0 in X with itB.W: 0.001 lax@P12, AGC ONCameraLens $\frac{5mm@P22, angle}{of view: 72^{\circ}}$ $\frac{3.6-10mm@P14,}{angle of view: 83, 7^{\circ}-36, 7^{\circ}}$ $\frac{5mm@P22, angle}{of view: 72^{\circ}}$ $\frac{3.6-10mm@P14,}{angle of view: 83, 7^{\circ}-36, 7^{\circ}}$ Lens MountCS 014 CS 014 WDRDigital WDRDigital NDRAngle AdjustmentPan: 0^{\circ}-360^{\circ}, Til: 0^{\circ}-77^{\circ}; Rotation .0^{\circ}-360^{\circ}Vieto CompressionH.265/H.264/MUPEGH.265 TypeMain Profile @Leve4.1 High TierVieto CompressionH.265/H.264/MUPEGResolution $\frac{480}{240}$ Main Stream $5MP(2592\times1944)$, 2K(1-30fps) / 1080P(1-30fps) / 720P(1-30fps)Main Stream $5MH2: 5MP(1-30fps) / 2K(1-30fps) / 1080P(1-30fps) / 720P(1-30fps))Main Stream5MH2: 5MP(1-30fps) / 2K(1-30fps) / 1080P(1-30fps) / 720P(1-30fps))InterfacesAndreamROISupportNetworkI RJ45 10M/100M/100M portVideo CVBS output (BNC ×1)AndraMCI N:1; MIC OUT×1StorageSupport TF card, up to 64GBRS485SupportNetwork ProtocolTCP/IP, UDP, DHCP, NTP, RTSP, PPF06, DDNS, SMTP, FTPInterfacesAndraAndraMotion alarn; sensor alarmInterfaceSmart AlarmMotion alarn; sensor alarmInterfaceSupport TC card, up to 64GBRS485SupportVideo CONSet Strage: Tree CMS remote controlOnline ConnectionSupport simultaneous monitoring for up to10 users and mul$		Auto Iris						
CameraLensSmm@F2.2, angle of view: 72° $3.6-10mm@F1.4, angle of view: 83.7°-36.7°Smm@F2.2, angle of view: 83.7°-36.7°3.6-10mm@F1.4, angle of view: 83.7°-36.7°Lens MountCSØ14CSØ14Day&NightICRCSØ14Day&NightICRCSØ14Digital NR3D DNRAngle AdjustmentPan: 0°-360°; Til: 0°-77°; Rotation:0°-360°Angle AdjustmentPan: 0°-360°; Til: 0°-77°; Rotation:0°-360°Video CompressionH.265/H.264/MJPEGH.265 TypeMain Profile ØLeve4.1 High TierVideo Bit Rate64Kbps-10MbpsSMP(1-2502s-1944), 2K(2560×11440), 1080P(1920×1080), 720P(1280×720), D1, CIE480×240Main StreamS0Hz: SMP(1-30fps) / 2K(1-30fps) / 1080P(1-30fps) / 720P(1-30fps))Saturation, Brightness, Chrona, Contrast, Wide Dynamic, Sharpen, NR, etc. adjustablethrough client or web browerROISupportNetwork1 R145 10M/100M/100M portVideoCVBS output (BNC ×1)AiadoMIC IN-1; MIC OUT×1StorageSupport FI card, up to 64GBRS485SupportAiamICH alarm input; 1 CH alarm outputRemote MonitoringIE browser, CMS remote controlOnline ConnectionSupport sensor alarmNetworkTF card storage; network remote storageStorageSupportTheraf-cealeIF card storage; network remote storageRoline ConnectionSupport Sensor alarmInterfaceONVIF, GB-7/28181-2011StorageTF card storage; netwo$		Min. Ilumination	0.01lux@F1.2, AGC	ON: 0 lux with IR				
Day & NightICR $Day & NightICRWDRDigital WDRDigital NR3D DNRAngle AdjustmentPan: 0°~360°; Tilt: 0°~77°; Rotation:0°~360°Kender MarkH.265/H.264/MPEGH.265 /T.264/MPEGH.265 /T.264/MPEGH.265 /T.264/MPEGH.265 /T.264/MPEGH.265 /T.264/MPEGMain Profile @Leve4.1 High TirrVideo Bit Rate64Kbps~10MbpsResolution64Kbps~10MbpsMain Stream50Hz: SMP(1-30fps) / 1080P(1-30fps) / 720P(1-30fps)Main Stream50Hz: SMP(1-30fps) / 2K(1-30fps) / 1080P(1-30fps) / 720P(1-30fps)SuportSuportMain StreamSoHz: SMP(1-25fps) / 2K(1-30fps) / 1080P(1-30fps) / 720P(1-25fps)SuportSuportSuportSaturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR, etc. adjustablethrough client or web browserROISuportNetwork1 R445 10M/100M/100M portVideoCVBS output (BNC ×1)AuidoMIC IN×1; MIC OUT×1StorageSupport TF card, up to 64GBRS485SupportAlarmICH alarm input; 1 CH alarm outputAlarmICH Ider input; 1CH alarm outputInterfacesNetwork ProtocolOnline ConnectionSuport simultaneous monitoring for up to10 users and multi-stream transmissionNetwork ProtocolTCP/IP, UDP, DHCP, NTP, RTSP, PPoE, DDNS, SMTP, FTPInterface ProtocolONVIF, GB-T/28181-2011StorageSingerSmart AlarmMotion alarm; sensor alarmI$	Camera	Lens		angle of view:	<u>5mm@F2.2</u> , angle	<u>3.6~10mm@F1.4</u> , angle of view:		
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Others Opterating Environment Temperature: -20°C~50°C; Humidity: 10%~90% Dimension (mm) Ø161mm×137.3mm								
Environment Ø161mm×137.3mm		*						
		1 0	Temperature: -20°C~50°C; Humidity: 10%~90%					
Weight (net) 1255g		Dimension (mm)	Ø161mm×137.3mm					
		Weight (net)	1255g					
Installation Pendent mounting (wall mounting available with junction box and bracket)		Installation	Pendent mounting (wall mounting available with junction box and bracket)					