NETWORK CAMERA

User Manual

V2.0.0

2009-8

Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

This manual applies to DS-2CD802/812/892PF(NF)(-E)(-W), DS-2CD832F(-E), DS-2CD802/812/892P(N)-IR1(IR3)(IR5), DS-2CD702/712/792PF(NF)(-E), DS-2CD732F(-E), DS-2CD862MF-E, DS-2CD862MF-E, DS-2CD762MF-FB(H), DS-2CD752MF-FB(H), DS-2CD752MF(-E), DS-2CD852F series Network Camera

This manual may contain several technical incorrect places or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

DISCLAIMER STATEMENT

"Underwriters Laboratories Inc. ("UL") has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock or casualty hazards as outlined in UL's Standard(s) for Safety, UL60950-1. UL Certification does not cover the performance or reliability of the security or signaling aspects of this product. UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT."

Safety Instruction

These instructions are intended to ensure that the user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into 'Warnings' and 'Cautions':

Warnings: Serious injury or death may be caused if any of these warnings are neglected.

Cautions: Injury or equipment damage may be caused if any of these cautions are neglected.

Warnings preve	Follow ent seriou	these is injury	safeguards / or death.	to	Cautions preve dama	Follow ent pote age.	these ntial in	precautions jury or mate	to rial

- 1. In the use of the product, you must strictly comply with the electrical safety regulations of the nation and region.
- 2. Source with AC 24V or DC 12V according to the IEC60950-1 standard. Please refer to technical

specifications for more details.

Warnings

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- 3. Do not connect several devices to one power adapter as an adapter overload may cause over-heating and can be a fire hazard.
- 4. Please make sure that the plug is firmly inserted into the power socket.
- 5. When the product is installed on a wall or ceiling, the device should be firmly fixed.
- 6. If smoke, odor, or noise rise from the device, turn off the power at once and unplug the power cable, then contact the service center.
- 7. If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)



- 1. Make sure the power supply voltage is correct before using the camera.
- 2. Do not drop the camera or subject it to physical shock.
- 3. Do not touch CCD (Charge Coupled Device) modules with fingers. If cleaning is necessary, use a clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the CCD from dirt.
- 4. Do not aim the camera at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of CCD at the same time.
- 5. The CCD may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the CCD will not be exposed to the laser beam.
- Do not place the camera in extremely hot or cold temperatures (the operating temperature should be between -10°C ~ +60°C), dusty or damp locations, and do not expose it to high electromagnetic radiation.
- 7. To avoid heat accumulation, good ventilation is required for a proper operating environment.
- 8. Keep the camera away from liquids.
- 9. While shipping, the camera should be packed in its original packing, or packing of the same texture.
- 10. Regular part replacement: a few parts (e.g. electrolytic capacitor) of the equipment should be replaced regularly according to their average life time. The average time varies because of differences between operating environment and usage history, so regular checking is recommended for all users. Please contact with your dealer for more details.

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Chapter 1 Introduction

Network camera is a kind of embedded digital surveillance product that combines the features of both traditional analog camera and net DVS (Digital Video Server). Due to the embedded Linux operation system and the latest Davinci hardware platform of TI, the system operates with high scheduling efficiency. Furthermore, the firmware is burned in the flash, which makes the product small, reliable and highly stable.

1.1 Network camera Functions and Features

Functions:

- Network Function :support the TCP/IP protocols(TCP/IP,HTTP,DHCP,DNS,RTSP RTCP,PPPoE, Furthermore,FTP,SMTP,NTP,SNMP addible),and IE browsing.
- Heartbeat Function: The server can acquire real time operating performance of the network camera through the heartbeat function.
- Alarm Function: The product includes 1 channel of alarm signal input and 1 channel of alarm on/off output, and supports motion detection, video missing, mask alarm and external alarm input.(Get details in Specification)
- Voice Talking: Support bidirectional voice talking and monomial voice broadcasting.
- User Management: Support multilevel right management. The administrator can create up to 15 separate users with different right levels, which highly improves the system security.
- The product offers a 10M/100M self-adaptive Ethernet interface.
- Support set the parameters, browses real time videos or checks the camera performance through software or IE, and gets external alarming and stores the compressed bit rate through network.
- Support remote upgrades and maintenance.
- RS-485 supports monomial transparent channel function so that clients on remote PC can control the serial devices.

Compression Functions:

- Support 1 channel video signal and 25fps in Pal (704 × 576) ,30fps in NTSC (704 × 480) real time H.264 video Encoding standard compression, which supports both variable bit rate and variable frame rate; besides, you can self-define both the video quality and its compressed bit rate.
- Support resolution of 4CIF (PAL:704 × 576, NTSC:704 × 480), DCIF (PAL:528 × 384, NTSC:528 × 320), 2CIF (PAL:704 × 288, NTSC:704 × 240), CIF (PAL:352 × 288, NTSC:352 × 240), QCIF (PAL:176 × 144, NTSC:176 × 120).

Remote Control:

• The product offers a 10M/100M self-adaptive Ethernet interface.

- ◆ Support TCP / IP, HTTP, DNS, RTP / RTCP, PPPoE protocols.
- Set the parameters, browse real time videos or check the camera performance through software or IE, and get external alarming and store the compressed bit rate through network.
- Support remote upgrades and maintenance.
- RS-485 supports monomial transparent channel function so that clients on remote PC can control the serial devices.
- Support NAS storage.

1.2 Applications

This camera is ideal for remote control network applications. E.g.:

- 1. Network surveillance for ATM, bank counters, supermarkets and factories.
- 2. Remote surveillance for nursing homes, kindergartens and schools.
- 3. Al janitors.
- 4. Al building/district management systems.
- 5. Self-service systems of power plants.
- 6. Outdoor monitoring systems for bridges, tunnels and crossroad traffic.
- 7. Pipelining and warehouse monitoring.
- 8. 24-hour monitoring for road traffic.
- 9. Remote monitoring of forest and water resources.
- 10. Surveillance for airdrome, railway station, bus stop etc.

Chapter 2 Installation

Notes:

- 1. Please check if all the items on the package list have been included with your camera.
- 2. Read the following contents carefully before the installation.
- 3. Make sure that all the related equipment is power-off during the installation.
- 4. Check the power supply to prevent any damage caused by mismatching problems.
- 5. If the product does not operate properly, please contact your dealer or the nearest service center. Never attempt to disassemble the camera yourself. Users are responsible for any problem caused by modification or repairing without authorization.

2.1 Panels Description

2.1.1 Side Elevation of the Camera



Fig 2.1.1 Side Elevation of DS-2CD832F(-E) network camera



Fig 2.1.2 Side Elevation of DS-2CD802, DS-2CD812, DS-2CD892 series camera

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Fig 2.1.3 Side Elevation of DS-2CD702,DS-2CD712,DS-2CD732,DS-2CD792 series camera

2.1.2 Rear Panel Description



Fig. 2.1.4 Rear Panel of DS-2CD832F(-E)

- 1. Standard Ethernet (UTP) RJ45 (10M/100M self-adaptive).
- 2. 1 channel voice talk input,3.5mm audio interface, 2.0 \sim 2.4Vp-p, 1k Ω .
- 3. 1 channel voice talk output, 3.5mm audio interface, electric line level, 600Ω .
- 4. 1 channel alarm output (1A 1B). 1 channel alarm input signal (IN,G). RS-485 bus interface (T+ T-).
- 5. SD card slot (Support SDHC).

6. Power supply interface of 12VDC, ±10%.



Fig. 2.1.5 Rear Panel of DS-2CD802, DS-2CD812, DS-2CD892 series

- 1. Standard Ethernet (UTP) RJ45 (10M/100M self-adaptive).
- 2. 1 channel voice talk input,3.5mm audio interface, 2.0 \sim 2.4Vp-p, 1k Ω .
- 3. 1 channel voice talk output, 3.5mm audio interface, electric line level, 600Ω.
- 4. BLC, AI, AES dial switch.
- 5. GND.
- 6. VD(Video Drive), DD(Direct current Drive).
- 7. Video Output port.
- 8. SD card slot.
- 9. alarm output (1A 1B); RS-485 bus interface (T + T-); Alarm input signal (IN,G).
- 10. Power supply interface of 12VDC, ±10%.



Fig. 2.1.7 Rear Panel of DS-2CD702, DS-2CD712, DS-2CD732, DS-2CD792 series

Address& protocols dial switch, define for dial switch: function as follows:

Switch Function	ON	OFF
1	SHARP	SOFT
2	AES	AI
3	BLC	OFF
4	FL	ON
5	NAGC	SAGC

Notices: There are invalid dial switches for DS-2CD702, DS-2CD712, DS-2CD792, DS-2CD732 series from 6 to 10;



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Fig 2.1.8 Rear Panel of DS-2CD802/812/892P-IR1/3/5 series camera

- 1. A means UTP interface;
- 2. B means voice input interface;
- 3. C means voice output interface;
- 4. D means, T+,T- means RS-485 interface; G, IN means alarm input interface; 1A,1B means alarm output interface;
- 5. E means BNC video output interface;
- 6. F means power supply input interface;

2.2 Product Installation

2.2.1 Box camera Installation

Box camera can be fixed in both metope and ceiling. Customers can choose whichever way according to their specific needs. Please follow the steps below:(Take fixing in ceiling as an example, fixing in metope follows the same rule).Choose the fixing method and fix the camera bracket accordingly. If it is metope, then you need to fix the expand bolt (note: the mounting hole of the expand bolt should align with the bracket) before fixing the bracket. If the wall surface is wooden, the first step can be ignored and you can use the self-tapping screw to directly fix the bracket. Please note that the metope on which the camera is fixed should be able to bear at least three times the weight of the bracket and the camera.



Fig 2.2.1 Fix Ceiling Bracket

Fig 2.2.2 Fix Camera



Fig 2.2.3 Fix Lens

2.2.2 Dome camera Installation

Dome camera can be installed include hold equipment, ceiling mounted, cylinders and other styles. Client can be installed in accordance with their own ways to achieve the installation.Please according the following specific steps to install (take ceiling mounted as example), when the wall is wood, use the self-tapping screws to fix the ceiling plate to the wall surface.



Fig 2.2.4 Fix card

Fig 2.2.5 Fix in Ceiling

Take the three columns of Dome camera insert in the three fix slot of the ceiling plate. Pay attention to the direction of insertion. Let the ceiling plate "I" logo and the Dome camera "I" logo in the same direction. Meanwhile, make the Dome camera along the counterclockwise Rotate 15 degrees until the switch to the fixed date. At the same time, the "I" signs on the Dome camera and the locking screw on the ceiling plate is alignment. Then screw down the locking screw on the Ceiling plate.



Fig 2.2.6 Dome camera fixing

Fig 2.2.7 Dome camera fixed

2.2.3 Topological graph of network camera

Take DS-2CD802/812/892PF-E series for example:



Fig 2.2.11 Topological Graph of Network Camera

Physical Interface	Connection		
LITP Notwork Interface	Connect to network devices, such as switch , HUB, etc. Please		
OTP Network Interface	refer to Appendix B for pin Definition.		

Audio Input(AIN)	Connect to audio input devices such as active tone (2.0 \sim 2.4Vp-p, 1kΩ)		
Audio Output (AOUT)	Connect to sounders like loudhailer 600Ω.		
Power Supply(DC12V)	Please refer to the appendix for specified types. Please use a matched regulator.		
Alarm Output(1A 1B)	1 channel alarm out. Please refer to Section 2.3.2 for connecting instructions. (external series-wound power shall be under 12V DC / 30mA)		
Alarm Input (IN G)	1 channel alarm in.		
RS-485 Interface (T+ T-)	Connect to RS-485 devices like PTZ.		
SD card slot	Insert an SD card for local storage.		
Video Output (VOUT)	Standard BNC, connect to monitor.		

Notice:



Left

Fig 2.1.12 Alarm output

The alarm output is an on/off output that requires external power supply on connection. The external power supply shall be 12V DC/30mA, or use AC with external relays. Equipment damage or electric shock may cause if without relays.

2.3 Client Software Installation

Note:

It is recommended that user's computer adopted INTEL P3, P4, C4, Core4 CPU, and well-known brands (Asus, Gigabyte, MSI, ECS, and INTEL etc.)Intel chipset motherboard, to ensure the stability of the system. Tested the following models of the current graphics cards support the software installed,ATIRadeonX1650,X1600,X1550,X1300,X800,X600,X550,HD2400,HD2600,NVIDIA GeForce 8600GT,8500GT,8400GS,7600,7300LE,6600LE,6200LE,INTEL915/945G, pay attention to graphics driver must support hardware scaling function.

Step1: Double click 'Client software 4000 (v2.0)' in the Windows Operating System. The 'Preparing

Setup' dialog box will pop up as Fig.2.3.1automatically;

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Client software(v4.0) - InstallShield Wizard
Client software(v4.0) Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
InstallShieldCancel

Fig.2.3.1 Client Software Installation

Step2: Input "User Name", "Company Name";

ient software(v4.0) - InstallShield	d Wizard		2
Customer Information Please enter your information.		1	X
Please enter your name and the nam	e of the company for whic	h you work.	
User Name:			
<u>C</u> ompany Name:			
tallShield			40
	< <u>B</u> ack	Next >	Cancel

Fig.2.3.2 Customer Information

Step3: Select the destination folder and click 'Next' to go to the next step.

Client software(v4.0) - InstallShield Wizard	×
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of your inst the wizard.	allation settings, click Back. Click Cancel to exit
InstallShield	< <u>B</u> ack <u>Install</u> Cancel

Fig2.3.3 Ready to Install the Program

Step4: Click 'Install' to start installation till finish the installation;

Client software(v4.0) - InstallShield Wizard				
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Client software(v4.0). Click Finish to exit the wizard.			
	< Back Finish Cancel			

Fig2.3.4 Installation Complete

Click the 'Finish' button to close the dialog box.

After the client software has been installed, you can find the remote client software through "Start" -> "Programs" on your PC.

2.4 Special Client Software Installation for Wireless camera

Step1: Double click "Client software (v4.01)" under Windows Operating System. The "Preparing Setup" dialog box will pop up as Fig.2.4.1 and go to Fig2.4.2 automatically.

ananing Cate		
Please wait while	the InstallShield Wizard prepares the setup.	1
Client software(v4. he rest of the setu	01) Setup is preparing the InstallShield Wizard, which will guide you th p process. Please wait.	irough
lShield		
		ancel
	Fig. 2.4.1 Client Software Installation	
	Fig.2.4.1 Client Software Installation	
ent software(v	Fig.2.4.1 Client Software Installation 4.01) - InstallShield Wizard	_
e <mark>nt software(v</mark> i cense Agreeme Please read the fo	Fig.2.4.1 Client Software Installation 4.01) - InstallShield Wizard ent ollowing license agreement carefully.	
ent software(v icense Agreeme Please read the fo To display your lin Language Indepe	Fig.2.4.1 Client Software Installation 4.01) - InstallShield Wizard ant ollowing license agreement carefully. cense agreement, replace the License.txt file currently located in the endent folder of the Setup Files pane.	
ent software(v icense Agreeme Please read the fo To display your lid Language Indepe NOTE: The text i 1,024 characters	Fig.2.4.1 Client Software Installation 4.01) - InstallShield Wizard ant ollowing license agreement carefully. cense agreement, replace the License.txt file currently located in the endent folder of the Setup Files pane. in your license file should contain hard returns after lines with more than s	
ent software(v icense Agreeme Please read the fo To display your lid Language Indepe NOTE: The text i 1,024 characters	Fig.2.4.1 Client Software Installation 4.01) - InstallShield Wizard ent ollowing license agreement carefully. cense agreement, replace the License.txt file currently located in the endent folder of the Setup Files pane. in your license file should contain hard returns after lines with more than t	
ent software(v icense Agreeme Please read the fo To display your lit Language Indepe NOTE: The text i 1,024 characters	Fig.2.4.1 Client Software Installation 4.01) - InstallShield Wizard ant ollowing license agreement carefully. cense agreement, replace the License.txt file currently located in the endent folder of the Setup Files pane. in your license file should contain hard returns after lines with more than terms of the license agreement	

Fig.2.4.2 License Agreement

< Back

Next >

Cancel

Step2: Enable the option "I accept the terms of the license agreement" and click the "Next" button to go to the next step as Fig.2.4.3.

Client software(v4.0) - InstallShield Wizar	ď	×
Customer Information Please enter your information.		AL.
Please enter your name and the name of the	company for which you work.	
User Name:		
Company Name:		
h		
InstallShield		
	< <u>B</u> ack <u>N</u> ext >	Cancel

Fig.2.4.3 Customer Information

Step3: Input "User Name", "Company Name" and click "Next" to go to the next step.

Setup Type	re(v+tor) - matarismeto wizaru	
Select the se	stup type that best suits your needs.	24
Please selec	t a setup type.	
 Complete 	ġ	
1	All program features will be installed. (Requires the most disk space.	.)
O Custom	Select which program features you want installed. Recommended for advanced users.	or
Destination	n Folder	
C:\Program	n Files\Client Software(V4.01)	owse
stallShield		
	< Back Next>	Cancel

Fig.2.4.4 Destination Folder

Step4: Select the destination folder and click "Next" to go to the next step.

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Client software(v4.01) - InstallShi	eld Wizard 🛛 🗧
Ready to Install the Program The wizard is ready to begin installation.	
Click Install to begin the installation.	
If you want to review or change any of y the wizard.	our installation settings, click Back. Click Cancel to exit
nstallShield	K Back Install Cancel

Fig2.4.5 Ready to Install the Program

Step5: Click "Install" to start installation shown as Fig2.4.6.

Client software(v4.01) - InstallShield Wizard	×
Setup Status	Nº4
Client software(v4.01) is configuring your new software installation.	
Installing	
C:\Program Files\Client Software(V4.01)\tmplay.dll	
InstallShield	
	Cancel

Fig2.4.6 Install Process

Step6: After finishing the installation, the installation completed dialog box will popup as Fig.2.4.7.



Fig2.4.7 Installation Complete

Click the "Finish" button to close the dialog box.

After the client software being installed, you can find the remote client software through "Start" -> "Program" on your PC

Chapter 3 Parameter Configuration

There are several network parameters of the camera which need to be set after the hardware installation. Those parameters including IP address, subnet mask and port number, etc. can be set through various kinds of methods, 2 of which are introduced as below.

- 1. Set the camera parameters via IE.
- 2. Set the camera parameters through the client software.

Please make sure that the PC and network camera are connected and can ping successfully before the parameter setting.

3.1 Network Camera access model overview

3.1.1 Wireless Network (Only "-w" series support)

Type 1: Point to Point Cennect Model In this model, the camera is connected to the PC on wireless network directly.



wireless camera



wireless notebook computer

Fig 3.1.1 Point to Point connection

Type 2: Integrated connection In this model, the camera is connected to the wireless access point.



Fig 3.1.2 Connection through wireless access point

3.1.2 Wired network

There are two ways of connecting between IPC and PC as below:



Fig. 3.1.4 Direct Line Connection

3.2 Visit Network Camera in LAN

Before visiting network camera, user should detect its IP address. SADP is a tool software which can automatically detect hikvision's network device in the LAN and give the device's information like IP address, mask, port number, device serial number, software version and so on.

	Device type	IP address	Port number	Device Serial No. 🔺	Deulee Cerial Number
001	SERIES	192.0.0.64	8000	DS6104HCI00200707	Dectoruccoccoccoccoccuto
002	SERIES	192.0.7.15	8000	DS7104H0120071224	D36104HC0020070624BCCH10
003	SERIES	192.0.7.51	8000	DS7204H0120071130	version
004	SERIES	192.0.3.58	8000	DS6104HC-A0020070	VEDGION
005	SERIES	192.0.2.57	8000	DS7204H0120070828	JACHOION
006	SERIES	192.0.7.202	8000	DS2-DF1-6130020070	subnet mask
007	SERIES	192.0.4.85	8000	DS6101HF002007072	255 255 248 0
800	SERIES	192.0.1.179	8000	DS2-DF1-6130020070	200 1 200 1 240 1 0
009	SERIES	192.0.7.23	8000	DS7204H0120070902	IP address
D10	SERIES	192.0.7.39	8000	DS6104HC002007082	192 0 7 39
D11	SERIES	192.0.4.237	8000	DS6102HF-A0020071	
D12	SERIES	192.0.7.2	8000	DS6804HC-A0020070	device port
D13	SERIES	192.0.1.89	8000	DS6102HF002007101	lenno
D14	SERIES	192.0.7.243	8000	DS2-DF1-6130020071	0000
D15	SERIES	192.0.3.59	8000	DS6101HF-A0020070	MAC Address
016	SERIES	192.0.3.214	8000	DS2CD852F00200712	00.40.00.05.40.55
017	SERIES	192.0.3.211	8000	DS2CD852F00200707	00-40-36-30-03-00
D18	SERIES	192.0.0.64	8000	DS2CD852F00200712	alassa inaut assourced
D19	SERIES	192.0.1.101	8000	DS6104HC002007032	piease input password
020	SERIES	192.0.6.220	8000	DS7108H012007122E	
D21	SERIES	192.0.7.200	8000	DS6104HCI-SD00200	
D22	SERIES	192.0.3.57	8000	DS6104HC002007093	modify cancel save
023	SERIES	192.0.3.206	8000	DS2CD852F00200705	
D24	SERIES	192.0.7.192	8000	DS2-DF1-6130020071	
025	SERIES	192.0.7.135	8000	DS6101HF002007111	.Resume default password.
026	SERIES	192.168.6.29	8000	DS2CD802PF002007(
D27	SERIES	192.0.7.253	8000	NVEC0402200708244	ОК
028	SERIES	192.0.4.98	8000	DS8016HC022007121	
029	SERIES	192.0.7.155	8000	DS7104H0120071217	
•				▶	



Select the device, and set its IP address and mask at the same network segment with the PC. The detailed introduction of SADP, please refer to Appendix 1.

3.3 Configuration via Web browser

Before visit the camera via web browser, user should adjust security level. Open the web browser, and enter the menu "Tool/ internet option/Security/Custom level", then set the security level to Security Level –Low, or enable ActiveX Control and the Plug-in directly. Figure 3.3.1 gives you a visual illustration. After you can see the camera video, recover the security level for security.

	Constant				
Seneral	Security	Privacy Co	ontent Connect	ions Programs	Advance
Select a	Web con	tent zone to s	pecify its security	y settings.	
6	3	S		•	
Inte	emet l	ocal intranet	Trusted sites	Restricted	
				sites	
	Internet				
	This zone	contains all W	leb sites you	Gi	tee
09	haven't pla	aced in other a	ones		
_					
Secu	ity level for	this zone —			
	~ .	m			
	Custo	and a atting a a			
	Custo Cust	om settings. change the s	ettinas, click Cus	tom Level.	
	Custo Cust - To - To	om settings. change the si use the recon	ettings, click Cus mended settings	tom Level. s, click Default L	evel.
	Custo Cust - To - To	om settings. change the s use the recon	ettings, click Cus nmended settings	tom Level. s, click Default L	evel.
	Custo Cust - To - To	om settings. change the so use the recon	ettings, click Cus imended setting:	tom Level. s, click Default L	evel.
	Custo Cust - To - To	om settings. change the s use the recon	ettings, click Cus imended settings	tom Level. s, click Default L	evel.
	Custo Cust - To - To	om settings. change the s use the recon	ettings, click Cus amended settings ustom Level	tom Level. s, click Default L Default L	evel.
	Custo Cust - To - To	om settings. change the so use the recon	ettings, click Cus nmended setting: ustom Level	tom Level. s, click Default L Default L	evel.
	Custo Cust - To - To	orm settings. change the so use the recon	ettings, click Cus nmended settings ustom Level	tom Level. s, click Default L Default L	evel.

S	ecurity Settings	? 🗙
	Settings:	
	Disable Enable Prompt	
	Run ActiveX controls and plug-ins Administrator approved Disolate	
	Disable Enable Prompt	
	Script ActiveX controls marked safe for scripting	
	Prompt Prompt	
	Reset custom settings	
	Reset to: Low Rese	et
	OK Car	ncel



The default IP of the camera is 192.0.0.64 with 8000 as the default port, admin as the administrator,

and 12345 as the password. The administrator can create up to 15 separate operators with different right levels.

To login the camera through IE, input the IP address in the address column, and the "Login" dialog box will pop-up as Fig. 3.3.2. Input your user name and password, and then click "Login" to enter the "preview" page. Double click the "Camera 01" channel or "Preview" button to preview the video as Figure 3.3.3. Right click the "Camera 01" channel, and the "Main Stream", "Sub Stream" and "Open sound" options will popup. Select the Open sound option if you connect a pickup to the camera.



Fig. 3.3.2 Login Interface



Fig 3.3.3 Preview Interface

The "Playback" and "Log" functions can be used only in the condition of existing SD card. To set the camera parameters through IE browser, click "Config" and wait for the "Remote Parameters Config"

dialog box to pop up, and then set the parameters like IP address, etc. for your demand.

Enter the menu by invoking the 95th preset. Select the function you want by clicking the direction key. Click the IRIS+ button you can enter the submenu. The menu operation is like the remote control.

Note: If plug the SD card into the camera, user should enter the "config" and select "other function" to format the SD card.

For more specific information of "Remote Parameters Config", please refer to "Instructions of Client Software (version 4.01)" from Section 2.5.3 of remote-distance parameter settings. Instructions can be found in the client software4.01 in the path of "Start" "Program" \rightarrow "client software 4.01" after installation.

Remote parameters Co	nfig		
🔲 DVSB Para 🛛 🚱 CK	an Para 🗩 Serial Para	🔿 Alarm Para 🛛 🙈 Licer	제 Other
-DVSR parameters inform	nainn ara. 🥌 Scharr ara.		
DVSR Name	network camera	Cucle Record	Mar w
Device ID		Lice Scole	
Channel Number	1	HDD Number	
	4	Alamout Number	12
Serial Number			
Senarnumber	JD36101HF-IP0020070518	BCCH004000055WCU	
DVSR net parameters inf	ormation		
NIC Type	10M/100M AUTO	MAC Address	00:40:30:7c:c4:07
DVSR IP	192.0.0.5	Port	8000
Subnet Mask	255 . 255 . 248 . 0	Gateway IP	0.0.0.0
DNS IP	192.0.1.13	Multicast IP	0.0.0.0
Manage Host IP	192.0.1.13	Manage Host Port	7200
Use PPPoE	UnUse	PPPoE IP	0.0.0.0
PPPoE User		PPPoE Password	
NAS Host IP	0.0.0.0	NAS Directory	
HTTP Port	80		
DVSR version information	n		
SoftwareVersion	V2.0 build 070427	HardwareVersion	0x0
DSP Version	V4.0 build 070411	FrontPanel Version	0
Restore	Reboot		Save Exit

Fig. 3.3.4 Remote Parameters Configuration

3.4 Configuration via Client Software

After the installation of client software-4000(v2.0), there is a short-cut icon named "Client Software-4000(v2.0)" on computer's desktop. Please double click client software icon, a message box of "Register Administrator" as Fig. 3-4-1 will appear the first time running. Password should be more than 6 digits for registration.

Note: Please keep the user name and password in mind .You will not be able to get access the software without the proper login information.

Register administrato	×
Please register on	e administrator
Administrator	
Login	
Verify	
Register	Cancel

Fig.3.4.1 Register Administrator

Enter the registered user name and password as Fig. 3.4.2. Click "Login" to enter the "Preview" menu as Fig. 3.4.3.

Login	×
💄 User name: 📃 💋 Password:	
Modify Login Cancel	

Fig. 3.4.2 User Login



Fig. 3.4.3 Preview Menu

Click the "Configure" button in Fig. 3.4.4, and then right click the blank white space. Click the "Add Area" button, and the "Add Area" message will pop up.

Fig. 3.4.4 Add Area



Fig. 3.4.5 Add Area Properties

Input the area name (you can create whatever name you like) and click "OK" as Fig. 3.4.6. Then right click the area you have just created as Fig. 3.4.7.

IP Video Sur	veillance							7 if = X
Switch	Preview-	Playback-	Configure	Log	Мар			Login Userjaretenge
Right-click to choose	the add aroa,add str	aam media, add devi	60				Group	 170
								Device Management
								Software Configuration
								Recording Feature
								Alarm Link
						835 44 <u>6</u>		User Management
						Up		Hardware Decode

Fig. 3.4.6 Area Name Adding Completed



Fig. 3.4.7 Right Click the Area Name

Click "Add Device", and the "Add Device" dialog box will pop up as Fig. 3.4.8. Input your "Device Name". Select "Normal" from "Register" option. Input your camera IP in "Device IP", e.g. 192.0.0.64; "User Name": admin, "Password": 12345, and 8000 for the default "Port", and then modify "Channel" to 1. Click the "OK" button as Fig. 3.4.8.

IP Video Su	rveillance						7 🚅 🗕 🛪
Switch	Preview-	Playback+	Configure	Log	Мар		Login Userjaretenge
Right-Sick So theory		am media, udd deel	CG		Add Device Porce Mannator Device Name Device IP Password Channel No. Online Device Device serial Online Device	Texason Tex	Context Management Context Configuration Recording Feature Alem Luk User Management Hardman Discode

Fig. 3.4.8 Add Device

IP Video Sur	rveillance					? 🖃 🗕 🕷
Switch	Preview - Playback-	Configure	Log	Map		
Switch	Praylaw Playback- the add area, add deean media, add dee]	Configure		Map	arr ta Up Davn	Loop User James Device Management Solvers Configuration Frecording Fredue Alarm Link User Management Hardweis Decode

Fig.3.4.9 Camera Adding Completed

Click the "Preview" button to enter the "Preview" menu as Fig. 3-4-10. Double click the channel name in the left tree to preview the camera feed.



Fig.3.4.10 Preview Menu

Please refer to "Client Software-4000(v2.0)_ENG.pdf" for a more detailed parameters configuration. You can find the document in the PC Operating System after the installation of client software 4000

v. 2.0 by selecting "Start"-> "All Programs"-> "client software 4000 v. 2.0".



Fig.3.4.11 Remote Configuration

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3.5 Wireless Network Camera Access

[Notice] The following message only introduces the –W series wireless IP camera. Take the IE Browser Access for example.

Before configure parameters of the wireless IP camera, you should set the wireless router. The following example is TP-LINK. Firstly configure the 'network parameter' of the 'LAN setting' and 'WAN setting' in the wireless router's management page. Enter the 'Wireless Parameter', and set the 'SSID NO.', 'Frequency band' and 'Mode'. User can input any letter and number in the 'SSID NO.' . 'Frequency Band' is selected according to the on-the-spot environment, and usually we recommend 6 frequency band; Select the '54 Mbps(802.11g)'. Select the 'Enable Wireless Function' and 'Allow SSID Broadcast'.

User can select 'Enable Security Function' according to the on-the-spot environment. You can select the 'Security Type', 'Security Option', 'Key Mode Option' and 'Key Content'. Please refer to the introduction of the wireless router to get the detailed configuration. As shown:

TP-LIN	K 108M Wireless F	outer with eXtended Range [™] and Super 11G [™]		
108M Wireless Router Model No.: TL-WR641G / TL-WR642G	Router Status		<u>^</u>	Router Status Help The Status page displays the router's current status and configuration All information is read-only
• Status • Quick Setup Basic Settings	Firmware Version: Hardware Version:	2.11.2 Build 060420 Rel.53897n WR641Gl642G v2 00000000		LAN: The following is the information of LAN, as set on the Network -> LAN page.
+ Network + Wireless	LAN			 MAC Address - The physical address of the router, as seen from the LAN.
Advanced Settings + DHCP + Forwarding + Security • Static Routing • Dynamic DNS	MAC Address: 00-14-78-6A-DB-0C IP Address: 192.168.10.1	00-14-78-6A-DB-0C 192.168.10.1		 IP Address - The LAN IP address of the router. Subnet Mask - The subnet mask associated with LAN IP address.
	Subnet Mask:	255.255.255.0		Wireless: These are the current settings or information for Wireless, as set on the Wireless -> Wireless Settings page.
Maintenance + System Tools	Wireless			Wireless Radio - Indicates whether the wireless radio feature
	Wireless Radio:	Enabled	_	of the router is enabled or disabled.
	Name (SSID):	्या		SSID - SSID of the router. Channel - The current channel in use.
	Channel:	6		Mode - Indicates the current mode (108Mbps (Dynamic), 100Mbps (Statis) - 54Mbps (002 11a), 14Mbps (002 11b), If
	Mode:	54Mbps (802.11g)		displayed 108Mbps (Dynamic), it is compatible with 54Mbps
	MAC Address:	00-14-78-6A-DB-0C		(802.11g) and 11Mbps (802.11b). If displayed 54Mbps (802.11g), it is compatible with 11Mbps (802.11b).
	IP Address:	192.168.10.1		MAC Address - The physical address of the router, as seen from the Wireless LAN.
	WAN			IP Address - wireless LAN IP address of the router. WAN: The following parameters apoly to the WAN (Internet) port of the
	MAC Address:	00-14-78-6A-DB-0D	۷	router. You can configure them on the Network -> WAN page

Fig.3.5.1 Router wireless parameter configuration

There are two network cards in the wireless IP camera: cable network card and wireless network card. The default IP of the cable network card is 192.0.0.64 with 8000 as the default port, admin as the administrator, and 12345 as the password. The wireless network card's default IP is 192.168.1.64.

User should configure the parameters of the wireless network card through the cable network interface. The way of visiting is the same as the chapter 3.2. Enter the menu as 'Fig. 3.3.2 preview page' shows, then click the 'Config' option, enter the interface as following:

	10		
erver Configuration Inf	ormation		
Server name	WIFI	Cycle record	YES 💌
Device ID	88	Enable scaler	• • • • • • • • • • • • • • • • • • •
Channel number	1	HDD number	0
Alarm input number	1	Alarm output number	1
Server type	IPCAM 💌		
Serial number	DS2CD812PF-W00200801	15AAWR260020770WCU	
letwork Configuration I	nformation		
NIC type	10M/100M auto 💌	MAC address	00:40:3f:bf:54:f2
IP address	192.0.1.11	Port	8000
Subnet mask	255 . 255 . 248 . 0	Gateway	0.0.0.0
DNS host IP	0.0.0.0	Multicast IP	0.0.0.0
Remote host IP	0.0.0.0	Remote host port	0
PPPoE	Off	PPPoE IP	0.0.0.0
PPPoE user		PPPoE password	
NAS host IP	0.0.0.0	NAS directory	
HTTP port	80	WIFI Configuration	
erver Version Informat	ion		
Firmware version	V2.0 build 080407	Hardware version	0x0
Encode version	V4.0 build 071128	Front panel version	0

Fig.3.5.2 Remote Configure parameter

In channel configuration, you can click WIFI configuration button to set WIFI parameter of wireless camera. SSID should be same as the wireless router. If your wireless router has a security code, please enable network key and type into the code.

		h	
SSID NO.	HIKTEST		
Key content	123	Enable network key	
Note: 1. The	SSID setting should b	e the same as SSID of wireless router or A	P
2. The	network key refers to	key[1] of wireless router	
3. If th necessa	e wireless router is not iry to enable network k	working in security mode, then it is no ey.	t
Configuration			
-			32.66
IP address	192.168.1	Physical addr 00:17:31:ae:	Promo Sector .
IP address mask address	255 . 255 . 255	Physical addr J00:17:31:ae:	

Fig.3.5.3 WIFI Configuration

3.6 Visit Network Camera in Internet

3.6.1 Visit network camera with static IP

When there is a static IP from an ISP, open some ports (such as 80 and 8000 ports) in the router. Then a user can visit it through a web browser or client software via the internet. The steps for port forwarding are different for each model of router. Please call the router manufacturer for assistance with port forwarding or visit www.portforward.com.

Note: Refer to Appendix 2 to for a detailed explanation about Port Map.

Users can directly connect the network camera to the internet without using a router.



Fig.3.6.1 Static IP through Router access IPC



Fig.3.6.2 Static IP access IPC directly

For the client software to view the camera, in the adding equipment column, select the normal model, and fill in the IP info.

Fig.3.6.3 Selecting Normal Mode

3.6.2 Visit network camera with dynamic IP



Fig.3.6.4 Visit camera through PPPoE dail-up

This camera supports the PPPoE auto dial-up function, connecting the camera to a Modem for

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dial-up access to an ADSL network to get a public IP address; First, through local network access to the network camera, select "Configure" \rightarrow "Right Click the Device", Select "Remote Configuration", Select "PPPoE Settings" under "Network Paramters" fill in the PPPoE user name and password and confirm the password. Please restart the network camera after completion of configuration. Then the network camera can obtain a dynamic IP from an ISP operation business. However, the obtained IP address is dynamically assigned via PPPoE, so the IP address always changes accompanied with modem rebooting.



Fig.3.6.5 PPPoE configuration dialog box

It is inconvenient to view a network camera with a dynamic IP, therefore, users should register with

a dynamic DNS service provider. (Such as DynDns.com)

Domain name resolution contains normal domain name resolution and private domain name resolution. First, we will introduce normal domain name resolution.

1. Normal Domain Name Resolution



Fig.3.6.6 Normal Domain Name Resolution

Apply a domain name from a domain name provider, then view the camera via the applied domain name. If the camera connects to the internet via a router, users should port forward the router. Please refer to Appendix 2.

Input domain names in the client software or IE to view the network cameras. Take the client software configuration as an example.

IP Video Su	veillance						7 🖬 🗕 🕺
Switch	Preview-	Playback-	Configure	Log	Мар		Login User Jarelenge
Right-click to choose	The add sine, add sh	eem media, add devk	tē .		odify Device mice Information Device Name Domain Name Channet No. NNS Address Sterice serial Online Device	Information Register Mode Vision Vision Decemande 0000 0000 Decemande 0000 Decemande Decemande Decemande 0000 Decemande Deceenande	Ceucle Management

Fig.3.6.7 Selecting Normal Domain Mode

2. Private Domain Name Resolution



Fig.3.6.8 Private Domain Name Resolution

A PC with a static IP which is running the domain name resolution service is necessary.

When the network camera connects to the internet through PPPoE and obtains an IP address, it will send its name and IP address to the resolution server. When the client software connects to the network camera, it will connect to the resolution server and tell the resolution server the expected camera's name. And the server will find the camera from all the registered cameras and send its IP address to the client software. Once the client software gets the IP address, it can connect the network camera.



Fig.3.6.9 Selecting Private Domain Mode

Appendix 1 SADP Introduction

1. Brief introduction

SADP (Search Active Devices Protocol), can automatically search IP cameras in LAN. User can modify the IP address, subnet mask and port of the device without visiting IP address of the device. Additionally, password of the super user in this device can be recovered as default.

SADP software needs to support sadp, so we should install WinPcap at first, which is placed in the directory of SADP software.

2. Searching active devices online

After installing WinPcap, double click sadpdlg.exe. The software will start to search active devices in LAN, and device type, IP address, Port number, Device Serial No., subnet mask, MAC address, the number of channels, main control and encoding version and device initiating time are showed in the list, as follows:

	Device type	IP address	Port number	🔹 Device Serial No. 🛛 🔺	Device Serial Number
001	SERIES	192.0.0.64	8000	DS6104HCl00200707	
002	SERIES	192.0.7.15	8000	DS7104H0120071224	D30104HC0020070024BCCH1
003	SERIES	192.0.7.51	8000	DS7204H0120071130	version
004	SERIES	192.0.3.58	8000	DS6104HC-A0020070	VERSION
005	SERIES	192.0.2.57	8000	DS7204H0120070828	J*Ension
006	SERIES	192.0.7.202	8000	DS2-DF1-6130020070	subnet mask
007	SERIES	192.0.4.85	8000	DS6101HF002007072	255 255 248 0
308	SERIES	192.0.1.179	8000	DS2-DF1-6130020070	
009	SERIES	192.0.7.23	8000	DS7204H0120070902	IP address
010	SERIES	192.0.7.39	8000	DS6104HC002007082	192 . 0 . 7 . 39
011	SERIES	192.0.4.237	8000	DS6102HF-A0020071	[] ···· · · · · · ·
012	SERIES	192.0.7.2	8000	DS6804HC-A0020070	device port
013	SERIES	192.0.1.89	8000	DS6102HF002007101	loono
014	SERIES	192.0.7.243	8000	DS2-DF1-6130020071	10000
015	SERIES	192.0.3.59	8000	DS6101HF-A0020070	MAC Address
016	SERIES	192.0.3.214	8000	DS2CD852F00200712	00 40 20 25 42 55
017	SERIES	192.0.3.211	8000	DS2CD852F00200707	00-40-36-30-03-00
D18	SERIES	192.0.0.64	8000	DS2CD852F00200712	alassa inau taassuused
019	SERIES	192.0.1.101	8000	DS6104HC002007032	piease input password
020	SERIES	192.0.6.220	8000	DS7108H012007122E	
021	SERIES	192.0.7.200	8000	DS6104HCI-SD00200	
022	SERIES	192.0.3.57	8000	DS6104HC002007093	modify cancel save
023	SERIES	192.0.3.206	8000	DS2CD852F00200705	
024	SERIES	192.0.7.192	8000	DS2-DF1-6130020071	
025	SERIES	192.0.7.135	8000	DS6101HF002007111	Resume default password
026	SERIES	192.168.6.29	8000	DS2CD802PF002007(-nesume derauk password-
027	SERIES	192.0.7.253	8000	NVEC0402200708244	пк
028	SERIES	192.0.4.98	8000	DS8016HC022007121	
029	SERIES	192.0.7.155	8000	DS7104H0120071217	
				•	
					Exit

3. Modifying the information of active devices

Select the device that needs modification in the device list, then basic information of the device will be demonstrated in the information column on the right. Click 'modify' button to activate IP address, subnet mask, device port editing and password validating box, as follows:

	Device type	IP address	Port number	Device Serial No. 🔺	Device Serial Number
017	SERIES	192.0.3.57	8000	DS6104HC002007093	DS2CD852E002007092EAAV/P
018	SERIES	192.0.7.51	8000	DS7204H0120071130	D 3200 0321 002007 032344 WIT
019	SERIES	192.0.1.179	8000	DS2-DF1-6130020070	version
020	SERIES	192.0.6.220	8000	DS7108H012007122E	VEBSION
021	SERIES	192.168.6.29	8000	DS2CD802PF002007(J. LINGING
022	SERIES	192.0.7.243	8000	DS2-DF1-6130020071	subnet mask
023	SERIES	192.0.7.155	8000	DS7104H0120071217	255 255 248 0
024	SERIES	192.0.7.81	8000	DS2CD802PF002007*	1
025	SERIES	192.0.3.214	8000	DS2CD852F00200712	IP address
026	SERIES	192.0.7.44	8000	DS2-DF1-6130020071	192 . 0 . 2 . 232
027	SERIES	192.0.7.192	8000	DS2-DF1-6130020071	1
028	SERIES	192.0.2.57	8000	DS7204H0120070828	device port
029	SERIES	192.0.0.64	8000	DS2CD852F00200712	lonnn
031	SERIES	192.0.7.253	8000	NVEC0402200708244	Journ
033	SERIES	192.0.7.244	8000	DS2-DF1-6130020071	MAC Address
034	SERIES	192.0.4.98	8000	DS8016HC022007121	00.40.2666.06.64
036	SERIES	192.0.3.58	8000	DS6104HC-A0020070	00.40.31.01.00.00
037	SERIES	192.0.6.208	8000	DS6104HC-A0020070	
038	SERIES	192.0.7.45	8000	DS7108HI012007111:	
043	SERIES	192.0.2.232	8000	DS2CD852F00200705	
047	SERIES	192.0.6.252	8000	DS6001HC002007121	
050	SERIES	192.0.1.30	8000	DS8002AHL02200711	modify cancel save
053	SERIES	192.0.7.32	8000	DS6101HF002007111	
060	SERIES	192.0.7.2	8000	DS6804HC-A0020070	
061	SERIES	192.0.4.68	8000	DS8016HF-S0220071	Besume default password.
063	SERIES	192.0.0.64	8000	DS8016HF-S0220071	-resume derauit passwolld-
065	SERIES	192.0.7.33	8000	DS6101HC002007100	OK
066	SERIES	192.0.0.64	8000	DS8008HC-S0220070	
067	SERIES	192.0.1.99	8000	DS8016HF-S0220070	
•				Þ	

Input the new IP address, subnet mask, and port number, and click 'save' button. If a dialog pops up, showing 'saved successfully', that means you have modified the configuration information; if 'saving failed' dialog pops up, click the 'cancel' button to quit it.

4. Recovering default password

You can reset the password of the super user as '12345' in the case of a lost password.

Input certain validation code into the 'Resume default password' box, and click 'OK' to finish the administrator's password initiating.

Note: Password reset code can be obtained by the technicians from Hikvision after you provide the device Serial NO.

Appendix 2 Port Map

Note: The following setting is about TP-LINK router (TL-R410), which is maybe distinct from other router's

setting.

1. Firstly, select the router's WAN connection Type. As the following Fig. shows:

108M Wireless Router Model No.: TL-WR641G / TL-WR642G	WAN		
StatusQuick Setup	WAN Connection Type:	PPPoE 🗸	
Basic Settings - Network	User Name:	Static IP PPPoE 802.1X + Dynamic IP	
• LAN • WAN • MAC Clone	Password:	802.1X + Static IP BigPond Cable L2TP	

2. Set the "network parameter" of the router as the below figure. The setting includes subnet mask and gateway.

108M Wireless Router Model No.: TL-WR641G / TL-WR642G	LAN	
Status Quick Setup Basic Settings	MAC Address: IP Address:	00-14-78-6A-DB-0C 192.168.10.1
 Network LAN WAN MAC Clone 	Subnet Mask:	255.255.255.0 💌

3. Set the port map in the virtual severs of Forwarding. By default, camera uses port 80, 8000, 554 and 8200. You can change these ports value with IE or client software.

The following figure gives the illustration. One camera's ports are 80, 8000, 554, 8200 and its IP address is 192.168.1.23. The other camera's ports are 81, 8001, 555, 8201 and IP is 192.168.1.24. Afterwards, enable all or TCP protocols. Enable the port map after pressing the 'Save'.

108M Wireless Router Model No.: TL-WR641G / TL-WR642G	Virtu	al Servers			
Status	ID	Service Port	IP Address	Protocol	Enable
Quick Setup	1	80	192.168.10 , 23	ALL 🗸	~
Basic Settings	2	8000	192.168.10. 23	ALL 🗸	~
+ Wireless	3	554	192.168.10. 23	ALL 🖌	~
+ DHCP	4	8200	192.168.10 . 23	ALL 🔽	~
 Forwarding Virtual Servers 	5	81	192.168.10. ₂₄	ALL 🖌	~
Port Triggering	6	8001	192.168.10. 24	ALL 🔽	~
• DMZ • UPnP	7	555	192.168.10. 24	ALL 🔽	~
+ Security	8	8201	192.168.10. 24	ALL 🔽	~
Static Routing Dynamic DNS Maintenance System Tools	Common	Service Port:	DNS(53) C	opy to ID 1	~
			Previous Next	Clear All S	ave

As the above mentioned setting, we map the router's port 80, 8000, 554, 8200 to the network camera 192.168.1.23; and port 81, 8001, 555, 8201 to the network camera 192.168.1.24. In this way, user can visit the 192.168.1.23 through visiting the router's port 80, 8000, 554 and 8200.

Note: The port of the network camera cannot conflict with other ports. For example, some router's web management port is 80. User can amend the router's or the camera's port to solve this problem.

Appendix 3 Pin Definition



(2)UTP between the network port of camera and PC (Cross Cable):



Appendix 4 Product Specification

DS-2CD802/812/892/PF(NF)(-E)(-W)

Specification

Parameter Model	DS-2CD802PF (NF) (-E) (-W)	DS-2CD812PF (NF) (-E) (-W)	DS-2CD892PF (NF) (-E) (-W)						
Camera	4	I	I						
Image Sensor	1/3 inch SONY Super HAD CCD								
Effective Divels	PAL: 500 (H) × 582 (V)	PAL: 752 (H) × 582 (V)	PAL: 752 (H) × 582 (V)						
Effective Pixels	NTSC: 510 (H) × 492 (V)	NTSC: 768 (H) × 494 (V)	NTSC: 768 (H) × 494 (V)						
Lens Mount	C / CS mount	C / CS mount							
Signal System PAL / NTSC									
Electronic shutter	1/50 (1/60)s ~ 1/100,000s								
Min. Illumination	0.1Lux @ F1.2								
Day & Night	Electronic								
Auto Iris Lens	DC / Video								
Lens	Option								
S/N Ratio	More than 48dB								
Video Output	420 TVL, 1Vpp Composite Output	480TVL, 1Vpp Composite Output	540TVL, 1Vpp Composite Output						
Video Output	(75Ω / BNC)	(75Ω / BNC)	(75Ω / BNC)						
Compression Standard									
Video Compression	H.264 or MPEG-4								
Video Output	32 K ~ 2M, adjustable (8Mbps maximum)								
Audio Compression	OggVorbis								
Image									
Image Resolution	PAL: 704 × 576, 528 × 384, 704 × 288, 352 × 288, 176 × 144								
image Resolution	NTSC: 704 × 480, 528 × 320, 704 × 240, 352 × 240, 176 × 120								
Frame Rate	25 fps (704 × 576), 30fps (704 × 480)							
Function									
Motion Detect	Support								
Dual Stream	Support								
SD Card Local	Support								
Recording									
Heartbeat	Support								
Password Protect	Support								
Protocols	TCP / IP, HTTP, DHCP, DNS, RTP / RTC	CP, PPPoE (FTP, SMTP, NTP, SNMP addi	ble) ;						
	(-W) series support IEEE802.11g Wi	reless, 2.4GHz Frequency.	(-W) series support IEEE802.11g Wireless, 2.4GHz Frequency.						

Interface					
Audio Input	channel 3.5mm audio interface (2.0 ~ 2.4Vp-p, 1k Ω)				
Audio Output	1 channel 3.5mm audio interface (line level, 600Ω)				
Communication	1 RJ45 10M/100M self-adaptive Ethernet port and one RS-485 interface				
Alarm Input	1 channel signal input				
Alarm Output	1 channel relay output				
Others					
Working	10°C ~ 60°C				
Temperature					
Power Supply	12VDC, ±10%, (-E) series support PoE (Power over Ethernet)				
Power Consumption	4W MAX				
Dimensions (mm)	63 × 59 × 114 (2.5" × 2.34" × 4.5")				
Weight	650g (1.21lbs)				

Dimension



DS-2CD832F(-E)

Specification

Parameter Model	DS-2CD832F (-E) (-W)			
Camera				
Image Sensor	1/4 inch CMOS			
Effective Pixels	640 (H) × 480 (V)			
Lens Mount	C / CS mount			
Lens	Option			
Auto Iris Lens				
Min. Illumination	0.4Lux @ F1.2			
Day & Night	Electronic			
Compression Standard				
Video Compression	H.264 or MPEG-4			
Video Output	32 K ~ 2M, adjustable (8Mbps maximum)			
Audio Compression	OggVorbis			
Image				
Image Resolution	704 x 576, 640 x 480, 528 x 384, 704 x 288, 352 x 288, 176 x 144			
Frame Rate	25fps (704 x 576), 30fps (704 x 480)			
Functions				
Motion Detect	Support			
Dual Stream	Support			
Heartbeat	Support			
SD Card Local Recording	Support			
Password Protect	Support			
Protocols	TCP / IP, HTTP, DHCP, DNS, RTP / RTCP, PPPoE (FTP, SMTP, NTP, SNMP addible);			
Interface				
Audio Input	1 channel 3.5mm audio interface (2.0 \sim 2.4Vp-p, 1k Ω)			
Audio Output	1 channel 3.5mm audio interface (Line level, 600 Ω)			
Communication	1 RJ45 10M / 100M self-adapted Ethernet port and, 1 RS-485 interface			
Alarm Input	1 channel signal input ($0{\sim}12$ VDC)			
Alarm Output	1 channel signal relay output			
Others				
Working Temperature	-10°C ~ 60°C			
Power Supply	12VDC, ±10%, (-E) series support PoE (Power over Ethernet)			
Power Consumption	3W MAX			
Dimensions (mm)	63 × 59 × 116 (2.5" × 2.34" × 4.51")			

Weight

650g (1.21lbs)

Dimension







DS-2CD802/812/892P(N)-IR1(IR3)(IR5)

Specification

Parameter Model	DS-2CD802P (N)-IR1 (IR3)(IR5)	DS-2CD812P (N)-IR1 (IR3)(IR5)	DS-2CD892 P(N)-IR1 (IR3)(IR5)		
Camera	1				
Image Sensor	1/3 inch SONY Super HAD CCD				
Effective Pixels	PAL:500(H) × 582 (V)	PAL:752 (H) × 582 (V)	PAL:752 (H) × 582 (V)		
	NTSC:510 (H) × 492 (V)	NTSC:768 (H) × 494 (V)	NTSC:768 (H) × 494 (V)		
Lens Mount	M12×0.5				
Signal System	PAL / NTSC				
Electronic Shutter	1/50 (1/60)S ~ 1/50~1/100,000S				
Min. Illumination	0.1Lux @ F1.2 (0 Lux With IR)				
	"-IR1" series: 6mm (2.8mm, 3.6mm option)				
Lens	"-IR3" series: 12mm (3.6mm, 6mm, 8mm,16mm option)				
	"-IR5" series: 16mm (3.6mm, 6mm,	8mm,12mm option)			
S/N Ratio	More than 48dB	More than 48dB			
Video Output	420 TVL,1Vpp Composite Output	480TVL, 1Vpp Composite Output	540TVL,1Vpp Composite Output		
video Output	(75Ω/BNC)	(75Ω/BNC)	(75Ω/BNC)		
Compression Standard					
Video Compression	H.264 or MPEG-4				
Video Output	32 K ~ 2M, adjustable (8Mbps maximum)				
Audio Compression	OggVorbis	OggVorbis			
Image					
hung an Danahatian	PAL: 704 × 576, 528 × 384, 704 × 288, 352 × 288, 176 × 144				
image Resolution	NTSC: 704 × 480, 528 × 320, 704 × 240, 352 × 240, 176 × 120				
Frame Rate	25 fps (704 × 576), 30fps (704 × 480)				
Function					
Motion Detect	Support				
Dual Stream	Support				
Heartbeat	Support	Support			
Password Protect	Support				
Protocols	TCP / IP,HTTP,DHCP,DNS,RTP / RTCP, PPPoE (FTP,SMTP,NTP,SNMP addible)				
	"-IR1" series: approx 10 to 20 meters;				
Infrared Distance	"-IR3" series: approx 30 to 40 meters				
	"-IR5" series: approx 50 to 60 meters				
Interface					
Audio Input	1 channel (2.0 ~ 2.4Vp-p, 1kΩ)				
Audio Output	1 channel (Line level, 600Ω)				

Communication	1 RJ45 10M / 100M self-adapted Ethernet port and one RS-485 interface	
Alarm Input	1 channel signal input	
Alarm Output	arm Output 1 channel relay output	
Others		
Working	10°C ~ 60°C	
Temperature		
Water and Dust		
Resistance		
Power Supply	12VDC, ±10%	
	"-IR1" series: 5.5W MAX	
Power Consumption	"-IR3" series: 7W MAX	
	"-IR5" series: 9W MAX	
Dimensions(mm)	86.5 × 83 × 228 (3.43" × 3.29" × 9.04")	
Weight	1400g (3.04lbs)	

Dimension



Specification

\sim				
Parameter Model	DS-2CD702PF (NF) -E	DS-2CD712P F(NF) -E	DS-2CD792PF (NF) -E	
Camera				
Image Sensor	1/3 inch SONY Super HAD CCD			
Effective Pixels	PAL:500 (H) × 582 (V)	PAL:752 (H) × 582 (V)	PAL:752 (H) × 582 (V)	
	NTSC:510 (H) × 492 (V)	NTSC:768 (H) × 494 (V)	NTSC:768 (H) × 494 (V)	
Lens	3.5 ~ 9mm @ F1.2 / Φ14 / Fixed Iris lens			
Signal System	PAL / NTSC			
Electronic Shutter	1/50 (1/60)s to 1/100,000s			
Min. Illumination	0.1Lux @ F1.2			
Day & Night	Electronic			
S/N Ratio	More than 48dB			
Video Output	420 TVL, 1Vp-p Composite Outpu t (75Ω/BNC)	480 TVL, 1Vp-p Composite Output (75Ω/BNC)	540TVL, 1Vp-p Composite Output (75Ω/BNC)	
Compression Standard				
Video Compression	H.264 or MPEG-4			
Video Output	32 K ~ 2M, adjustable (8Mbps,maximum)			
Audio Compression	OggVorbis			
Image				
Image Resolution	PAL: 704 × 576, 528 × 384, 704 × 288, 352 × 288, 176 × 144			
	NTSC: 704 × 480, 528 × 320, 704 × 240, 352 × 240, 176 × 120			
Frame Rate	25fp s(704 × 576), 30fps (704 ×	< 480)		
Functions				
Motion Detect	Support			
Dual Stream	Support			
SD Card Local Recording	Support			
Heartbeat	Support	Support		
Password Protect	Support			
Protocols	TCP / IP, HTTP, DHCP, DNS, RTP / RTCP, PPPoE (FTP,SMTP,NTP,SNMP addible)			
Adjustment Range	355° Pan			
	90° Tilt			
Interface				
Audio Input	1channel (2.0 ~ 2.4Vp-p, 1kΩ)			
Audio Output	1 channel (Line level, 600Ω)			

1	
Communication	1 RJ45 10M / 100M self-adapted Ethernet port and 1 RS-485 interface
Alarm Input	1 channel signal input
Alarm Output	1 channel relay output
Others	
Working Temperature	-10°C ~ 60°C
Working Temperature Power Supply	-10° C ~ 60 °C 12VDC, ±10%, (-E) series support PoE (Power over Ethernet)
Working Temperature Power Supply Power Consumption	$-10^{\circ}C \sim 60^{\circ}C$ $12VDC, \pm 10\%, (-E) \text{ series support PoE (Power over Ethernet)}$ $4W \text{ MAX}$
Working Temperature Power Supply Power Consumption Dimensions (mm)	-10°C ~ 60°C 12VDC, ±10%, (-E) series support PoE (Power over Ethernet) 4W MAX φ145 × 132.8 (φ5.75" × 5.26")

Dimension



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DS-2CD732F(-E)

Specification

Parameter Model	DS-2CD732F-E		
Camera			
Image Sensor	1/4 inch CMOS		
Effective Pixels	640 (H) × 480 (V)		
Lens	3.5-8mm @ F1.6 / M12 / manual Iris lens		
Min. Illumination	0.4Lux @ F1.2		
Video Output	1.0Vp-p Composite Output (75Ω/BNC)		
Day&Night	Electronic		
Compression Standard			
Video Compression	H.264 or MPEG-4		
Video Output	32 K ~ 2M, adjustable (8Mbps maximum)		
Audio Compression	OggVorbis		
Image			
Image Resolution	704 × 576, 640 × 480, 528 × 384, 704 × 288, 352 × 288, 176 × 144		
Frame Rate	25fps (704 × 576)		
Functions			
Motion Detect	Support		
Dual Stream	Support		
SD Card Local Recording	Support		
Heartbeat	Support		
Password Protect	Support		
Protocols	TCP / IP, HTTP, DHCP, DNS, RTP / RTCP, PPPoE (FTP, SMTP, NTP, SNMP addible).		
Interface			
Audio Input	1 channel (2.0 ~ 2.4Vp-p,1kΩ)		
Audio Output	1 channel (Line level, 600Ω)		
Communication	1 RJ45 10M / 100M self-adaptive Ethernet port and 1 RS-485 interface		
Alarm Input	1 channel signal input		
Alarm Output	1 channel signal relay output		
Others			
Working Temperature	-10°C ~ 60°C		
Power Supply	12VDC, ±10%, (-E) series support PoE (Power over Ethernet)		
Power Consumption	3W MAX		
Dimensions (mm)	φ145 × 132.8 (φ5.75" × 5.26")		
Weight	900g (1.98lbs)		

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Dimension



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