

LevelOne

FCS-1020

100Mbps IP Network Camera



User's Manual

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1. Introduction

Thank you for choosing the **FCS-1020** IP Network Camera. This Camera sends live video through the Internet to a web browser or camera viewer anywhere in the world! This compact, self-contained unit lets you keep an eye on your home, your kids, and your workplace—whatever's important to you.

How does the Camera do all of this? Unlike standard "web cams" that require an attached PC, the IP Network Camera can connect directly to a network. The Motion JPEG video compression produces a high quality, high-frame rate, 640 x 480 video stream.

The included Viewer & Recorder utility lets you record the video stream to your local hard drive, "live" or on a predetermined schedule.

Use the instructions in this Manual to help you integrate the Camera into your network.

2. Package Content

- One FCS-1020 IP Network Camera
- One Power Adapter
- One Camera Stand
- One Cate.5 Ethernet Cable
- One Quick Installation Guide
- One CD

If any of the above items are missing, please contact your supplier.

3. System Requirement

System requirement for PC and Notebook PC to access the IP Network Camera are:

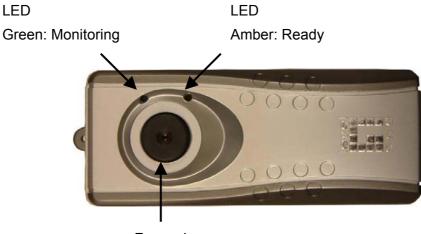
- OS System: Windows XP, Me, 2000, 98SE
- CPU: Pentium III, 450MHz or above
- Memory Size: 128MB (256MB recommended)
- VGA card resolution: 800 x 600 or above

4. Hardware Installation

4.1. LED and Focusing

The Camera head and its focus ring allow you to modify the aim and focus of the Camera. To adjust the Camera's focus, rotate the focus ring.

There are two LEDs indicating the camera status. Monitoring: When someone is viewing the camera, the LED will light. Ready: When the camera is power on and ready for access, the LED will light.



Focus ring

4.2. Camera Ports

The Camera features two ports and a Reset button.

Power: The Power port is where you will connect the power adapter.

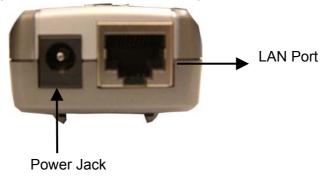
LAN: The LAN port is where you will connect the Ethernet network cable.

Reset: The Reset button is what you will press if you need to reset the Camera. Insert a paper clip into the hole. Then press the button and hold it in for five seconds.

4.3. Installation Procedure

- 1. Unpack the **FCS-1020** IP Network Camera package and verify that all the items listed in the Chapter 2 are provided.
- 2. Connect the **FCS-1020** IP Network Camera to your network by attached the network cable to the UTP port of the IP Network Camera.
- Connect the power adapter to the IP Network Camera and plug the power adapter to outlet. The IP Network Camera will be powered on. When the IP Network Camera is ready, the Ready LED will show orange color.

Note: It is highly recommended to use the power adapter shipped with the IP Network Camera, do NOT use any other power adapter from any sources.



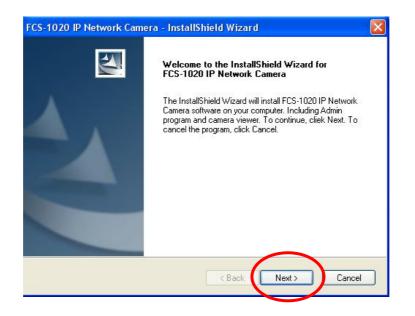
5. Software Installation

Follow the simple steps below to run the Install Wizard to guide you quickly through the Installation process. The following installation is implemented in Windows XP. The installation procedures in Windows 98SE/Me/2000/Server 2003 are similar.

- Insert the CD shipped along with the IP Network Camera into your CD-ROM drive. The Autorun.exe program should be executed automatically. If not, run Autorun.exe manually from "AutoRun" folder in the CD.
- 2. The Install Wizard will show four selections, select "Install Utility & Viewer" to install or click "Exit" to install the program later.



3. The system will start the installation procedures. Click "Next" to continue installation.



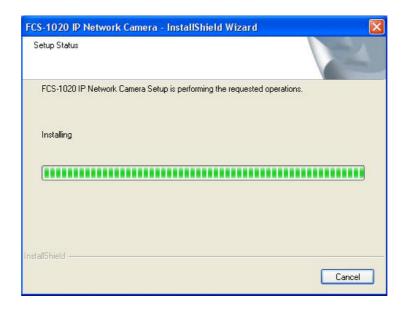
4. If you wish to install the software program in an alternate location, click "**Change**", otherwise click "**Next**" to move on to the next step.

FCS-1020	IP Network Camera - InstallShield Wizard	
	Destination Location older where setup will install files.	A.
	Install FCS-1020 IP Network Camera to: E:\Program Files\Internet Camera	Change
InstallShield -	< Back	lext > Cancel

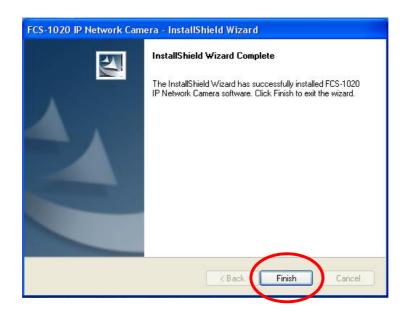
5. Click "**Install**" to start installing the program.

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 install the wizard.	ation settings, clic	k Back. Click Cano	cel to exit
tallShield			

6. The system will install the program automatically.



7. Click "Finish" to complete the software installation.



8. When the installation is completed. The system will auto run "Administrator Utility". On the IP Network Camera first page, the cameras found in the network are listed in the left window. Choose the one you want to configure and click "Setting Wizard" to proceed.

FCS-1020 IP Network Camera	
one	Network Camera
LAN Auto Discover	Information of Carnera Firmware Version: 1.08
N FC5-1020	Network Information Resolution: 320x240 E-Mail: user@mailserver.com
"N" means the	
camera is new and elete not configured.	
	Detail Setting (Setting Wizard)

9. For the first time configuration, please enter the default password "**1234**" and click "**OK**" to access to the IP setup page.

1

10. FCS-1020 IP Network Camera is working through the network (TCP/IP Protocol). The IP address setting must be correct, or you cannot access to the camera. The wizard program will detect the IP address status of your network automatically and suggest a free IP address for the Camera. You can accept the suggested value or enter the value manually. If you enter the value manually, please be aware that the subnet must be the same for both the camera and the PC. Click "Finish" to apply the configuration. Congratulations, you have finished setting the camera and can start to view the video of the Camera.

Internet Camera Config	, Wizard 🛛 🔀
Internet Camera Name;	FCS-1020
IP Address:	192.168.10.249
Subnet Mask:	255 . 255 . 255 . 0
Gateway:	192 . 168 . 10 . 1
Video Port:	4321
	Cancel

11. This wizard will pop up a window to ask you if you want to run the "Camera Viewer" and see the video of the Camera immediately. Select "**OK**" to run "Camera Viewer".

Run Camera Viewer	×
Do you want to Run Camera View	wer?
OK Cancel	1
	_

12. The "Camera Viewer" will show the video automatically. Congratulations, you can use the camera through the network to view the video.



6. Using the Administrator Utility

The Administrator Utility allows users to search and setup the cameras located within the Intranet or on the Internet. From the utility, users can view all the information of the selected camera; furthermore, it provides a setting wizard, which can guide users to add the camera to the network easily and promptly.

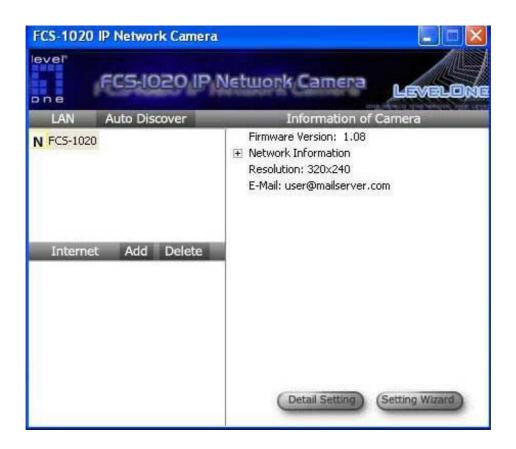
There are two ways to run the Administrator Utility as follows.

1. Click "Start", select "Programs\IP Camera\Admin Utility" to run the utility.

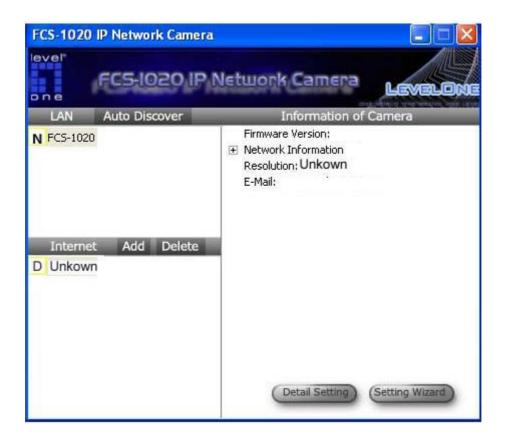


2. Click the "IP Camera Admin" icon di to run the utility.

Once the utility is started, it will search all the cameras within the network. To do more settings, please refer to the description in the following sections.



6.1. General Setting



LAN Setting	
Auto Discover	Click the button will search the camera within the network automatically.
Camera List	The list shows the camera name and the setup status of the camera.
	N FCS-1020 It means the camera is in the default setting.
	FCS-1020 It means the camera is configured before.

Internet Setting		
Add	Click "Add" will appear a window for you to enter the IP Address	
	of the camera on the Internet.	
Delete	Click "Delete" to delete the camera from the list.	
Camera List	The list shows the camera name and the connect status of the camera.	
	$\mathbf{D}^{\text{Unknown}}$ It means the camera is disconnected or not in the	
	Internet.	
	M FCS-1020 It means the camera is connected.	
Information of Camera		
Camera Information	It displays all information of the selected camera. The information	
	includes firmware version, network information, IP Address,	
	DDNS setting, Resolution and E-mail setting, etc.	
Camera Setting		
Detail Setting	Click "Detail Setting" to do more setting of the camera such as IP	
	address, Resolution, password and firmware upgrade, etc.	
Setting Wizard	Click "Setting Wizard" to setup the necessary setting for the	
	camera.	

6.2. Detail Setting

When you click the "Detail Setting", a screen will pop up for you to enter the "Administrator Name" and "Password". The default value is as follows.

Name: "Admin"

Password: "1234"

ОК

If the name and password you enter are correct, you can start to setup the camera.

	Resolution Advanced Setting Pa:
Internet Camera Name:	FCS-1020
IP Address:	192 . 168 . 10 . 250
Subnet Mask:	255 . 255 . 255 . 0
Gateway:	192 . 168 . 10 . 1
DNS Server:	168 . 95 . 192 . 1
Video Port:	4321
Web Port:	80

Network Setting	
Retwork Cetting	
IP Network Camera Name	The default camera name is "FCS-1020". It is recommended to
	name a meaningful name for the camera.
IP Address	Enter an unused IP Address within the IP address range used on
	your LAN. If the IP Address of your LAN is from the 192.168.2.1

	to 192.168.2.254, you can set an unused IP Address from the range for the camera, for example: 192.168.2.250.
Subnet Mask	The Subnet Mask field must match the subnet setting on your LAN. For example: 255.255.255.0.
Gateway	The Gateway is used to forward frames to destinations in a different subnet on the Internet. The Gateway setting must match the values used by the PCs on your LAN.
DNS Server	DNS Server (Domain Name Server) that translates names to IP addresses. Set the same values as the PCs on your LAN.
Video Port	The Video Port is used to transmit or receive the video streaming in the network. The default port setting is "4321". If you want to view the video from the camera, the port setting should be correct.
Web Port	This camera support web connection, the default web port is 80. Since the web server may use port 80, you can use a different port for the camera. If you change the web port from 80 to 8080, you must type <u>http://192.168.2.3:8080</u> to connect the camera through the web browser.

Edit Internet Camera	
Network Setting E-Mail Setting	Resolution Advanced Setting Pas
E-Mail Account: SMTP Server:	user@mailserver.com mailserver.com
	OK Cancel

E-Mail Setting	
E-Mail Account	This camera supports "Snap Shot" function. You can snapshot a
	picture and send the picture by E-Mail. Enter the E-Mail Account
	for receiving the picture.

SMTP Server	Enter the SMTP Server for the E-Mail sending

Edit Internet Camera		
Network Setting E-Mail Setting	Resolution Advanced Set	ting Pa:
Resolution:	320x240 160x120 320x240	
	640x480	
	ок	Cancel

Resolution

Resolution

Select the desired video resolution format. Larger resolution requires more bandwidth. 640 x 480 is "VGA" format. 320 x 240 is "CIF" format.

letwork Setting E-Mail Setti	ng Resolution	Advanced Setting	Pa:
UPnP			
📀 Enable	C Disa	ble	
			i) 19
Enable	C Disa	ble	
Provider	DynDNS	-	
Domain Name	fcs1020.dyna	dns.org	
Account			
Password	1		
14			3

Advanced Setting	
UPnP	Enable UPnP is required. When the UPnP function is enabled, the camera can be detected by UPnP compliant system such as Windows XP. The camera will be displayed in the Neighborhood of Windows XP, so you can directly click the camera to view the video through web browser.
DDNS	Many internet connections use a "Dynamic IP address", where the Internet IP address is allocated dynamically whenever the Internet connection is established. Internet users should know the IP Address of the camera when they want to connect to the camera every time. DDNS is designed to solve this problem, by allowing users to connect to your LAN using a domain name, rather than an IP address.
Enable/Disable	Enable or disable DDNS function of the camera.

Provider	Several companies provide DDNS service. This camera supports the service from DynDNS who is one of the DDNS providers. You can apply an account from <u>http://www.dyndns.rog/</u>
Domain Name	The domain name given by DynDNS is "registername.dyndns.com". Enter the domain name that you register for the camera from DynDNS web site.
Account	Enter the login name for the DDNS service.
Password	Enter the password for the DDNS service.

Old	Password:		_
NEW	Password:		
Retype	Password:	 	_

Password	
Old Password	Enter the current password of the camera.
New Password	Enter the new password you want to use for the camera.
Retype Password	Retype the new password to confirm the setting.

Edit Internet Camera		×
E-Mail Setting Resolution	Advanced Setting Password Tools	Þ
	Firmware Version: 1.08	
	Firmware Update	
	Reset to Default	
	OK Cance	

Tools	
Firmware Version	Display current firmware version.
Firmware Update	Click "Firmware Update" to update new firmware for the camera. You have to wait for a while for the firmware upgrade.
Reset to Default	If you want to reset the camera, click this button. The default settings of the camera are as follows. Camera Name: "FCS-1020" IP Address: "192.168.2.3" Subnet Mask: 255.255.255.0 Administrator Name: "Admin" Password: "1234" Video Port: "4321" Web Port: "80"

6.3. Setting Wizard

When you click the "Setting Wizard", a screen will pop up for you to enter the "Administrator Name" and "Password". The default value is as follows.

Name: "Admin"

Password: "1234"

Password.	×
admin	16

	admin

If the name and password you enter are correct, you can start to setup the camera.

Internet Camera Config	; Wizar d	×
Internet Camera Name:	FCS-1020	
IP Address:	192.168.10.250	
Subnet Mask:	255 . 255 . 255 . 0	
Gateway:	192 . 168 . 10 . 1	
Video Port:	4321	
-	Cancel Finish	

Setting Wizard	
IP Network Camera Name	The default camera name is "FCS-1020". It is recommended to
	enter a meaningful name for the camera.
IP Address	The wizard will auto setup an available IP Address to the camera.
	For example: if the IP address of the network is 192.168.2.x, the
	wizard will search an unused IP Address from 192.168.2.250 to
	192.168.2.0 and assign the camera an available IP Address.
	You can enter another IP Address to change the setting.
Subnet Mask	The wizard will auto search the Subnet Mask setting of the
	network and set the camera in the same Subnet.
	You can enter another Subnet Mask to change the setting.

Gateway	The wizard will auto search the Gateway setting of the network and set the camera to use the same Gateway.
	You can enter another Gateway to change the setting.
Video Port	It defines the video stream port. The default value is "4321".
Cancel	Click "Cancel" to stop wizard setting.
Finish	Click "Finish" to complete the camera setting.

Run Camera Vie	wer 🛛 🔀
Do you want to Ru	un Camera Viewer ?
ОК	Cancel

When you finish the camera setting, you can click "Ok" to run the "Camera Viewer" immediately or click "Cancel" to run the "Camera Viewer" later.

7. Using the Camera Viewer

7.1. Panel Introduction

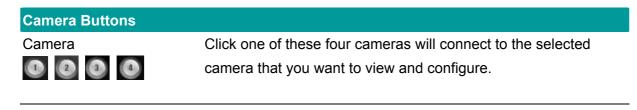
In the beginning when you start the view, you would see a Control Panel and a four division Viewer window.





7.2. Camera Buttons





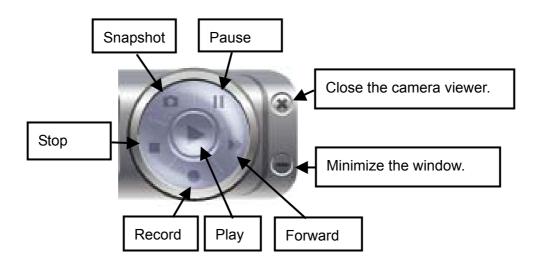
7.3. Camera Status

There is a status bar shown different color to indicate the status of each IP Network Camera.



Camera Status	
Yellow	It means that there is no camera set to connect.
Blue	It means that the camera is connected and playing the live video.
Dide	It means that the camera is connected and playing the live video.
Pink	It means that the camera is not connected now.
Red	It means that the camera is recording.

7.4. Control Buttons



Control Buttons	
Play	The "Play" button is an intelligent play user-interface. In the normal display mode and the IP Network Camera is disconnected, clicking on the "Play" can make the viewer connect to the IP Network Camera. In the playback mode, clicking on the "Play" can play the video in the normal speed.
Stop	The "Stop" button is an intelligent play user-interface. In the normal display mode and the IP Network Camera is connected, clicking on the "Stop" can make the viewer disconnect the camera. In the playback mode, clicking on the "Stop" can stop playing the video.
Pause II	The "Pause" button provides you a way to pause the current video display. When the displaying video is paused, click on the "Play" again to resume the video display.
Forward	The "Forward" button to forward the speed of display when playback the recording file. Click the button at a time will increase the playing speed one time.
Snapshot	Click "Snapshot" will make the viewer to take a snapshot of the video and save the picture as a bitmap file to the hard disk. (You can set the directory for storing these bitmap files at the Section 7.8.)
Record	By clicking on "Record" you can record video manually.

7.5. Video Recording

This utility allows you record the video in AVI format files. There are two ways of video recording – Manual Recording and Scheduled Recording.



You can manually record the video stream into an assigned video file.

Click "Record" . then the "Record to Disk" window will pop up. Assign the path and file

name that you want to save and click "Save", then the viewer utility will start to record the video stream. If you want to stop recording, click "Stop"

Notice: Before manual recording, you have to click the Camera with the select the IP Network

Camera that you want to record first and make sure that the viewer is successfully connecting to the IP Network Camera.

ook in:	🔄 C:/Program Files/Internet Camera/	~	+	£	ď	
)						
🗋 admin 🗋 util						
Gal						
ile name:					S	ave

Schedule Recording

You can assign a schedule and let this viewer automatically recording the video stream into video files. Please refer to Section 7.8 to see how to setup schedule for the recording. The file name of the recorded video file is the start time of recording. For example, the file name "FCS-1020_2004-10-8-23-56-40.avi" was started to record at 2004/10/8 23:56:40.

7.6. Change resolution

The IP Network Camera supports two resolution, 640x480 (VGA) and 320x240 (CIF). You can change the resolution of each IP Network Camera by clicking the target resolution button.

Notice: Before changing the resolution of the IP Network Camera, you have to select the IP Network Camera by clicking the camera button first. If you change the resolution of an IP Network Camera, other clients that are viewing the same IP Network Camera simultaneously will also see the video with the changed resolution, too.

Resolution	
VGA	Change the resolution to 640x480 (VGA) mode.
CIF	Change the resolution to 320x240 (CIF) mode.

7.7. View Four Cameras Simultaneously

Click the four division button (an view the 4 cameras simultaneously in a four-division window.



7.8. Viewer Utility Setting

Click the "Setting" (In the setting window of the IP Network Camera will pop up.

Notice: When you want to change the setting in the windows, you must disconnect the IP Network Camera first by clicking the "Stop"

FCS-10	20 IP Netw	ork Camer	a Settings 🛛 ? 🔀
Setting	Recording	Status	General
		Name:	FCS-1020
		IP Address:	192.168.10.250
		Video Port:	4321
		Model:	MJPEG Camera 🔛
		Username:	admin
		Password:	••••
			Discover
			OK Cancel

7.8.1. Setting

Setting	Recording	Status	General
		Name:	FCS-1020
		IP Address:	192.168.10.250
		Video Port:	4321
		Model:	MJPEG Camera 🔛
		Username:	admin
		Password:	****
			Discover



IP Address	IP address/Domain name of the IP Network Camera.
Video Port	The number of service port used by the IP Network Camera.
Model	Select "MJPEG Camera" (This camera only supports motion JPEG).
Username	The user name for login into the IP Network Camera.
Password	The password for login into the IP Network Camera.
Discover	Click "Discover", then camera auto-discover windows will pop up. The window will show all the discovered cameras on LAN environment. Select one IP Network Camera that you want to see from the list.

7.8.2. Recording

You can setup schedule for the recording here. This utility will record the video stream in your assigned folder according the schedule automatically. The recorded video files are AVI format.

Notice: The utility will only start to record the video stream when this utility is running and is successfully connecting to the IP Network Camera in the beginning of the schedule.

FCS-10	20 IP Netwo	ork Came	era Settings	i		?
Setting	Recording	Status	General			
🔲 Cycle	Recording					
One-Time	Schedules:					
						-
				4	D. L.C.	Y
	New		Edit		Delete	_
Weekly 9	ichedules:					~
	New		Edit	1	Delete	
			546900			
					ок	Cancel

One-Time Schedule:

One-Tin	ne Schedule			? ×
One-Time S	chedule			
From:	10/26/2004		19:20	\$
To:	10/26/2004	•	19:21	*

Weekly Schedule:

ne-Time S	chedule		
From:	11/26/2004	19:20	\$
To:	10/26/2004	19:21	\$

Schedule	
Cycle Recording	Select this item to enable cycle recording. When the Cycle Recording is enabled and the storage usage has already reached the maximum reserved storage space, the utility will automatically delete the oldest recorded video file and use the space to store the newly recorded video stream.
One-Time Schedule	You can assign a range of time and the utility will automatically record the video stream only during the period of time.
Weekly Schedule	You can assign the days in a week and the period of time in a day when you want to record the video stream. The utility will automatically record the video stream during the periods of time every week again and again.
New	Click "New" to add a new recording schedule.
Edit	Select an existing schedule in the schedule list and click "Edit" to edit the schedule.
Delete	Select an existing schedule in the schedule list and click "Delete" to delete the schedule.

7.8.3. Status:

You can see the current status information of the connection session between the utility and the IP Network Camera.

etting Recordin	g Status	General		
Connected:	Yes			
Stream Started Al	19:04:3	5		
Time Elapsed (se	;):	0E05		
Video Received (<b):< td=""><td>76097</td><td></td><td></td></b):<>	76097		
Frame Rate (Fram	e/s):	0		
Data Rate (KB/s)				
Number of Frame	:	5857		
			ОК	Cance

Status	
Connected	It displays "Yes" when the utility is connecting to the IP Network Camera and displays "No" is the utility is not connecting to the IP Network Camera.
Stream Started At	The beginning time of the current connection session between the utility and the IP Network Camera.
Time Elapsed	The elapsed time of the current connection session between the utility and the IP Network Camera.
Video Received	The total size (Unit: KByte) of video stream received during the current connection session between the utility and the IP Network Camera.

Frame Rate	The frame rate (frame per second) of the current video download speed from the IP Network Camera of the utility.
Data Rate	The data rate (KByte per second) of the current video download speed from the IP Network Camera of the utility.
Number of Frames	The total number of video frames received during the current connection session between the utility and the IP Network Camera.

7.8.4. General

You can manage storage usage of the utility for this IP Network Camera here.

Setting Recording	Status General	
Snap Shot Directory:	C:\Program Files\Internet Camera	Change
Record Directory:	C:\Program Files\Internet Camera	Change
Free Disk Space	21023	мв
Reserved Disk Space	10511	мв
Used Disk Space	0	МВ
Max Video File Size	2048	MB

General	
Snap Shot Directory	This lets you assign the directory where bitmap files will be stored when you use the snapshot to take pictures.
Record Directory	This lets you assign the directory where the recorded video files will be stored.

Free Disk Space	The current free disk space of your PC.
Reserved Disk Space	You can reserve a disk space to store the recorded video and snapshot files.
Used Disk Space	The current used disk space for saving the recording file.
Max Video File Size	This let you assign a maximum size of each video file. The upper bound of this value is 2 GB per file.

7.9. Playback

Playback function lets you select a file of previous recorded video stream and playback.

Click the "Open File" and a Load File window will be popped up. Select the file that you want to play.

Load F	ile	
Look in: [admin util	C:/Program Files/Internet Camera/	₩ € &
File name:		Open
File type:	Clips (*.mpg *.mp4 *.avi)	Cancel

The viewer will start to play the selected video file.



Playing Control	
Play	When the video playback is in Stop state, just click "Play"
	and the viewer will play the video file from the beginning point.
	When the video playback is in Pause state, just click "Play" ▶
	and the viewer will play the video file from the current pause point. When the viewer is playing with fast speed, just click "Play"
	to let the viewer play with the normal speed.
Pause	When the viewer is playing, you can click "Pause" 💵 to freeze the playback. If you want the viewer to continue playing from the
	current pause point, just click "Play" ▶.
Stop	When the viewer is playing, you can click "Stop" 💶 to stop the playback. If you want the viewer to play again, just click "Play"

and the viewer will play the video file from the beginning point.

Forward If you want the viewer to play the video file in a faster speed when the viewer is playing the video file, just click "Forward" and the viewer will double the playing speed. If you want the viewer play with the normal speed when the viewer is playing with fast

speed, just click "Play"

7.10. Rotate Video

Rotate function lets you rotate the video frame 90 of degree angle counterclockwise each time

you click the "Rotate" . With this function, you can view the live video with normal, 90 degree, 180 degree and 270 degree angles counterclockwise. Below is the video with 90 of degree angle counterclockwise rotation.



8. Web Connection and Setup

You can use the Web browser to connect the camera for viewing or setting. Open the web browser and enter the IP Address of the camera to establish a connection. The default IP Address of the camera is "**192.168.2.3**".

When the welcome screen appears, enter the "Admin Name" and "Password". The default values are:

Admin Name: "admin"

Password: "1234"

Note: Web connection only support "admin" account

🚰 FCS-1020 IP Network Camera - Microsoft Internet Explorer		
File Edit View Favorites Tools Help		-
🚱 Back 🔹 🐑 - 📓 🛃 💋 Search 👷 Favorites 🤣 🎯 - 💺 🚍 🦓		
Address 🕘 http://192.168.10.250/	💌 🛃 Go 🛛 Lir	nks »
FCS-1020 IP Network Camera Welcome		~
Please enter user name and password.		
User Name		
Password		
OK Cancel		
		~
e Done	🔮 Internet	

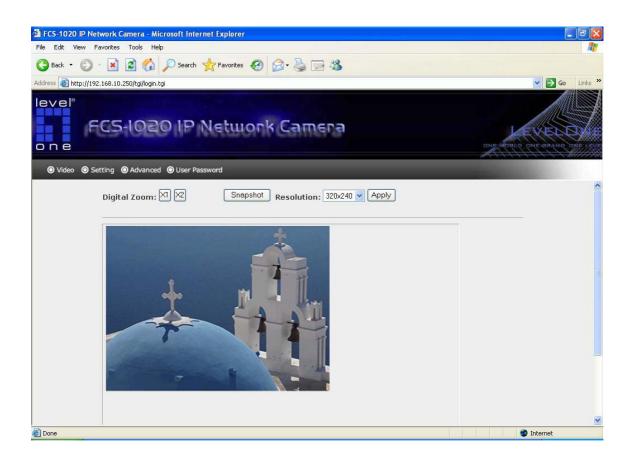
When the camera is connected, the video image will be shown up in the web screen directly. The menu options for the web control screen are as follows.

Video – View live video and adjust the video format from the menu.

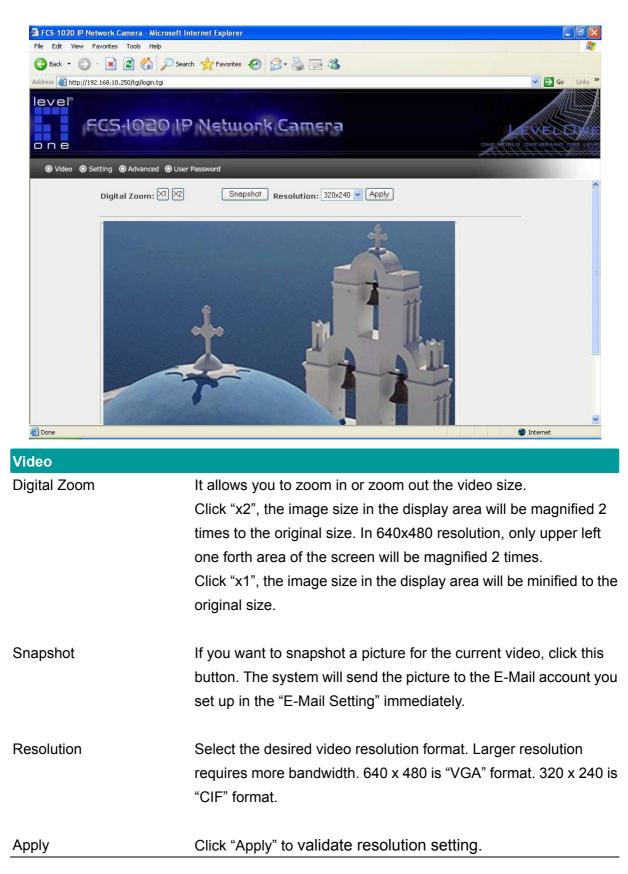
Setting – Set the necessary setting for the camera.

Advanced – Enable or disable UPnP and DDNS functions.

User Password – Up to four sets of administrator name and password can be set here.



8.1. View Video



8.2. Camera Setting

evel" FCS-1020 one © Video @ Setting @ Advanced @	User Password	amera	CHE HORLD CHE VERAND THE LEVE
Maintenance Factory Defaults	Reset to Defaults	Email Setting E-Mail Account SMTP Server	user@mailserver.com mailserver.com Apply
IP Information		Change Password	
IP Address	192 . 168 . 10 . 250	Current Password New Password	
Subnet Mask	255 . 255 . 255 . 0	Confirm New Password	Apply
Gateway	192 . 168 . 10 . 1		
DNS Server	168 . 95 . 192 . 1		
Video Port	4321		
Web Port	80		
Camera Name	FCS-1020		
Firmware Version	IP Camera Version 1.08		
	A	pply	~

Maintenance	
Factory Defaults	To reset the camera, click "Reset to Defaults". Then, follow the
	instruction of the screen to complete the process.

E-Mail Setting	
Receiver	Set up the E-Mail account as the receiver for the snapshot picture.
Mails Server	Specify the SMTP mail server for sending E-Mail.
Apply	When you finish the "E-Mail Setting", click "Apply".
IP Information	
IP Address	Enter an unused IP Address within the IP address range used on
	your LAN. If the IP Address of your LAN is from the 192.168.2.1
	to 192.168.2.254, you can set an unused IP Address from the

range for the camera, for example: 192.168.2.250.

- Subnet MaskThe Subnet Mask field must match the subnet setting on yourLAN. For example: 255.255.255.0.
- Default Gateway The Gateway is used to forward frames to destinations in a different subnet on the Internet. The Gateway setting must match the values used by the PCs on your LAN.
- DNS ServerDNS Server (Domain Name Server) that translates names to IPaddresses. Set the same values as the PCs on your LAN.
- Video Port Number The Video Port is used to transmit or receive the video streaming in the network. The default port setting is "4321". If you want to view the video from the camera, the port setting should be correct.
- Control Port Number This camera support web connection, the default web port is 80. Since the web server may use port 80, you can use a different port for the camera. If you change the web port from 80 to 8080, you must type <u>http://192.168.2.3:8080</u> to connect the camera through the web browser.
- Camera Name The default camera name is "FCS-1020". It is recommended to name a meaningful name for the camera.
- Firmware Version Display the current firmware version of the camera.
- Apply When you finish the "IP Setting", click "Apply".

Change Password	
Old Password	Enter current password.
New Password	Specify the new password you want to change to.
Confirm New Password	Enter the new password again for confirmation.
Apply	When you finish the "Change Password", click "Apply".

8.3. Advanced Setting

evel" FCS-10201 one © Video © Setting © Advanced ⊚ Us		rk Camera	CHE WOOLD CHE VBAND THE LEVE
	Line Frequency	○ 50Hz ⓒ 60Hz	Apply
	UPnP	O Enable 💿 Disable	Apply
	DDNS Service	● Enable ● Disable Provider DynDNS ♥ Domain Name	Apply

Line Frequency	
Line Frequency	Select the line frequency (50 or 60MHz) to improve the viewing quality under the fluorescent light.
Apply	When you finish the "Line Frequency", click "Apply".
DDNS Service	
Enable/Disable	Enable or disable DDNS function of the camera.
Provider	Several companies provide DDNS service. This camera supports
	the service from DynDNS who is one of the DDNS providers.
Domain Name	The domain name given by DynDNS is "registername.dyndns.com". Enter the domain name that you register for the camera from DynDNS web site.

Account	Enter the login name for the DDNS service.
Password	Enter the password for the DDNS service.
Apply	When you finish the "DDNS Service", click "Apply".

8.4. User Password

IP Network Camera	
User 1 User Name Password Confirm Password	^
User 2 User Name Password Confirm Password	Apply
User 3 User Name Password Confirm Password	Apply
User 4 User Name	Apply

User 1 / 2 / 3 / 4 (Note: These 4 accounts only can be used in viewer utility.)		
User Name	Up to four sets of user name and password can be defined. Enter	
	the user name for login name to the camera.	
Password	Enter the password of the new user account.	
Confirm Password	Enter the password again to confirm the setting.	
Apply	Click "Apply" to add the user account.	

9. Frequently Asked Questions

Q: What is an IP Network Camera?

A: The IP Network Camera is a standalone system connecting directly to an Ethernet or Fast Ethernet network. It is different from the conventional PC Camera; the IP Network Camera is an all-in-one system with built-in CPU and web-based solutions providing a low cost solution that can transmit high quality video images for monitoring. The IP Network Camera can be managed remotely, accessed and controlled from any PC/Notebook over the Intranet via a web browser or camera viewer.

Q: What algorithm is used to compress the digital image?

A: The IP Network Camera utilizes JPEG image compression technology to provide high quality images. JPEG is a standard for image compression and can be applied to various web browser and application software.

Q: Can I capture or record still images from the IP Network Camera?

A: Yes, you are able to capture or record still images with the snapshot function from the Camera Viewer application supplied with the IP Network Camera CD-ROM.

Q: What network cabling is required for the IP Network Camera?

A: The IP Network Camera uses Category 5 UTP Twisted-pair cable allowing 10 Base-T and 100 Base-T networking.

Q: Can the IP Network Camera be setup as a PC-cam on the computer?

A: No, the IP Network Camera is used only on Ethernet and Fast Ethernet network.

Q: Can the IP Network Camera be connected on the network if it consists of only private IP Addresses?

A: Yes, the IP Network Camera can be connected to a LAN with private IP Addresses.

Q: The focus on the IP Network Camera is bad, how can I correct it?

A1: Adjust the IP Network Camera focus manually.

10. Technical Specifications

Video specification

Max Resolution: 640 x 480 pixels Sensor: 300,000K pixels 1/4" color CMOS sensor Gain control: Automatic Exposure: Automatic White Balance: Automatic Focal Length: 6.0 mm Aperture: F=1.8

Image (Video Setting)

Image compression: Motion-JPEG Image Video Digital 24-bit Color Frame rate: 30fps@CIF, 20fps@VGA Video resolution: 320x240, 640x480

System Hardware

LAN Connector: One RJ-45 port to connect to 10/100Mbps Ethernet LED Indicator: Monitoring LED (Green), Ready LED (Orange) Power Supply: DC 7.5V/0.5A

■ HTTP/Utility

Includes easy-to-use Viewer & Recorder utility Provides Admin utility & WEB browser Management View multiple cameras simultaneously - Up to 4 cameras at a time Manual/Schedule Record, Video Playback Auto sending Snap Shot by E-mail Supports Windows 98SE/ME/NT/2000/XP/2003 Firmware Upgradeable

EMI & Safety

FCC, CE, C-Tick, VCCI