

Directions

iCanView230/230W are designed for indoor use only. When using iCanView230/230W outdoors or in an environment that exceeds the limited range, you must separately use a water-resistant case.

Be careful not to cause any physical damage by dropping or throwing the iCanView230/230W. Especially keep the device out of reach from children.

Do not disassemble iCanView230/230W. You will be excluded from After Service when disassembled.

Use only the power adapter provided with the iCanView230/230W.

If you would like to use the iCanView230/230W for security, monitoring, please check the legal regulations within the country.

Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into and outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Caution

Any changes or modifications in construction of this device which are not explicitly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This appliance and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. A minimum separation distance of 20 cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.

Revision History

Date	Rev No	Description
2006-08-14	1.0	Creation of the document

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1. Introduction

1.1. Overview

The iCanView230/230W is a state-of-the-art network camera which transmits synchronized video and audio data in real time with D1 resolution at full frame rate. This is possible through MPEG4 CODEC technology, which provides high quality video with highly compressed data streams. The iCanView230/230W can be connected, controlled and monitored from a remote location through an IP connection over internet or intranet. Unlike CCTV or DVR, the iCanView230/230W is easy to install and owner will experience cost and space savings in the installation owing to the state of the art technologies embedded in the system. Based on Embedded Software Solution (Embedded Web Server, Embedded Streaming Server, Network Protocol), the iCanView230/230W ensures unprecedented performance and stability to be an ideal network camera solution for system integration solutions.

iCanView230/230W are offered with standard Ethernet interface while iCanView230/230W is offered with embedded WiFi solution.

1.2. Features of iCanView230/230W

• 1 channel synchronized real time Video/Audio streaming

MPEG-4 video, ADPCM audio.

• Bi-directional audio communication

Real time audio communication between iCanView230/230W and Client PC

- The viewer assisted recording and playback functions.
- 1 Alarm sensor input/1 relay output
- Motion detection Up to 3 motion detection zones
 - Arbitrary shape motion detection zone

Motion detection can initiate video recording, which is sent to the user through FTP and/or Email.

- Resolution
 - NTSC: 704x480, 352x240, 176x144.
 - PAL/SECAM : 704x576, 352x288, 176x144
- RS-485 interface for Pan/Tilt device connection
- Remote administration control

Entire operational parameter set up, Software upgrade

- Embedded WiFi interface (iCanVeiw230W only) IEEE 802.11b/g
- Proprietary PoE (Power over Ethernet) for convenience of installation and cost savings

1.3. Applications of iCanView230/230W

- Security surveillance (buildings, stores, manufacturing facilities, parking lots, banks, government facilities, military, etc.)
- Real time Internet broadcasting
- Remote monitoring (hospitals, kindergartens, traffic, public areas, etc.)
- Teleconference (Bi-directional audio conference)
- Remote Learning
- Weather and environmental observation

2. Product Description

2.1. Contents

Open the package and check if you have the followings:

Components	Description	Remarks
iCanView230/230W	iCanView230/230W Network Camera	
Power adapter	Input : 100~250V 50-60Hz	Standard Power
	Output : +12V, 1.0A	
AC power cable	AC 250V, 10A~16A	
Antenna		iCanView230W only
CD-ROM	Software & User's Guide	
Quick Reference Guide	Quick installation guide	Will be provided

2.2. Preview

iCanView230/230W	IP-Installer	i-NVR
	Visit Address Total Witch Address Total Score Holds Witch Address Witch Address Witch Address Score Holds Witch Address <	
1CH MPEG-4 Network	PC software to allocate an IP	PC software to view and record
Camera	address to the	the A/V streaming data
	iCanView230/230W	transmitted from
		iCanView230/230W

2.3. Physical description

2.3.1. Front View



Figure 2-1. Side view of iCanView230/230W

• Lens : iCanView230/230W is basically delivered without Lens assembly. Standard C or CS type lens can be accommodated into iCanView230/230W. Either DC Iris lens or Non-DC Iris lens can be used with iCanView230/230W.

- **Microphone :** Picks-up sound from the environment for transmission over the network.
- CS Lens Mount Ring : Used for attaching lens unit to iCanView230/230W.
- Auto Iris Control : Plug in the cable from standard DC-Iris lens.

2.3.2. Rear panel



Figure 2-2. Rear views of iCanView230/230W



• **MIC /LINE IN :** Connect external audio source or microphone. If external audio is connected, embedded microphone will be disabled.

Use Standard stereo earphone jack for the connection



Figure 2-3. Pin assignment of the plug for MIC/LINE In (left) and LINE OUT (right)

• **LINE OUT** : Connect speakers with built in amplifier. Audio from remote site is output through Line out in bi-directional audio mode.

Use Standard stereo earphone jack for the connection.

• **100BaseT** : 100Mbps Ethernet connector (RJ-45) with proprietary PoE.

- LINK LED : Continuous yellow light means that network cable is plugged in. It will flicker when there is traffic.

- Status LED: Green color indicates that the camera is in normal operation mode, while RED color indicates that the camera is in abnormal condition.

• RS-232C & Video-out

3 Pins from the bottom of the connector are assigned for RS-232 port, while the remaining 2 pins are used for checking composite video output from the camera. Please note that the bottom most pin is numbered as 1.

Pin	Description	Misc.
1	TxD of RS-232C	For debugging & factory use only.
2	RxD of RS-232C	For debugging & factory use only.
3	Ground of RS-232C	For debugging & factory use only.
4	Video out from the camera	For use in installation.
5	Ground for Video out.	For use in installation

• DC7-23V, 8W: Power input of iCanView230/230W.

Do not apply power through this power input when power is applied through LAN cable using proprietary PoE.

• **RS-485 and ALARM IN/OUT :** Used for connecting P/T device, sensor, and alarm devices to iCanView230/230W. Note that the bottom most pin is numbered as 1. Pin assignments are as follows

Pin	Description	Misc.
1	RS-485 Negative (-)	
2	RS-485 Plus (+)	
3	Alarm In (-)	NC/NO selectable in admin mode.
4	Alarm In (+)	NC/NO selectable in admin mode.
5	Alarm Out	Relay output : closed circuit in alarm
6	Alarm Out	to indicate alarm status.

- RS-485 : Used for connecting Pan/Tilt and Zoom devices having RS-485 interface standard.
- Alarm In : Connect external alarm sensors such as the infrared sensors, heat sensor, magnetic sensors, etc. NC/NO selectable in the admin page.
- Alarm Out : It is used for connecting external alarm generators such as sirens, flashing light, etc. When activated, relay output configures a closed circuit.

Please refer to Section 6.1 for more detailed description on the Alarm In/Out connections.

• Reset : Factory Default Switch

There is a switch provided for returning the network camera to factory default state. Press the switch about 3 seconds through a tiny hole at the left of the 100BaseT connector using tools with sharp tip for a few seconds while power is applied.

• Antenna Connector : Connector for connecting 3dBi antenna supplied with iCanView230W

2.4. PC Requirements

AV streaming data received from iCanView230/230W can be decoded or stored in a PC running i-NVR program which is a viewing & recording program for a PC. Minimum requirement of the PC is described below:

	Minimum	Recommended
CPU	Pentium III 700	Pentium IV 1.2G above
Main Memory	128 MB	256MB above
Operating system [*]	Windows 2,000 or later	Windows 2,000 or later
Web browser	Internet Explorer 5.0	Internet Explorer 5.0 above
Resolution	1,024 X 768	Higher than 1,024 X 768
Network	10 Base-T Ethernet	100 Base-T Ethernet

* Operating Systems supported : Windows 2000 Professional

Windows XP Professional / Windows XP Home Edition

2.5 Quick Installation Guide

Brief information for rapid installation is provided in this section. For more detailed information you are recommended to refer to pertinent documentations provided with the product or refer to iCanTek's home page (http://www.icantek.com)

Connect iCanView230/230W to LAN by using one of the following method

 If you have power adaptor and PoE injector, connect the network camera and PC as
 illustrated in Figure 2.4. Both power and network connection is made with a single LAN
 cable.

2) If you have power adaptor with PoE, connect the network camera and PC as illustrated in Figure 2.5. Both power and network connection is made with a single LAN cable.

• The propriety PoE (Power over Ethernet) adds convenience in installing the network camera by providing both power and LAN connection using single LAN cabling.

3) If you have standard power connect the network camera and PC as illustrated in Figure 2.6.







Figure 2-5. Connecting Network camera and PC using PoE Adaptor



Figure 2-6. Connecting Network camera and PC without using PoE

<Caution>

The products of iCantek does not support standard PoE. Do not connect the network camera directly to a hub supporting standard PoE.

iCantek assumes no responsibility for the damages caused by use of standard PoE device with iCanTek's products.

2. Apply power to iCanView230/230W

Install "IP installer" and "i-NVR" on your PC.
 Detailed information for installing these programs can be found in [IP-Installer User's Guide] and [i-NVR User's Guide], respectively.

4. Assign IP address to iCanView230/230W using IP installer.

Identify the type of the network environment and set up IP address. Detailed process of setting up IP address can be found in **[IP-Installer User's Guide]**. If network type is xDSL or Cable modem you need supplementary information provided by your ISP.

5. Connect to iCanView230/230W in Administrator Mode for initial parameter set-up.

All parameters are set to factory default state when iCanView230/230W is delivered. You are asked to configure the system for your environment in administration mode. Detailed information of using administration mode can be found in **[5. Configuring iCanView230/230W in Administrative Mode]**. Among the parameters, the parameters in the following table should be set-up with proper values. Detailed information for the parameters in Administrator Mode is found in **[5. Configuring iCanView230/230W in Administrator** Mode is found in **[5. Configuring iCanView230/230W in Administrator** Mode is found in **[5. Configuring iCanView230/230W in Administrator** Mode is found in **[5. Configuring iCanView230/230W in Administrator** Mode is found in **[5. Configuring iCanView230/230W in Administrative Mode]**

[Note]: Set-up values are preserved even the power is turned off.

Page	Parameter	Setup value	Factory default value
Basic Setup	Video Size	Set the resolution of the video transmitted from iCanView230/230W.	Make sure that you press Check button to find out the number of
	Max Upload Rate	Set this value smaller than the upload speed of your network.	maximum possible simultaneous users then set the number of
	Frame Rate	The number of frames to be transmitted per second.	users smaller than or equal to the number.
	Video Rate	Bandwidth assigned for video transmitted from iCanView230/230W.	
User Admin	Administrator	For safety, you are recommended to	Default value
& Time Setup	name & password	change these values from factory default. For new connection, you need	Username : root
		to input changed values for corresponding fields. Do not disclose these values to others and memorize these values.	Password : dw2001
User Admin	Current Time	Input correct time in this field.	Default value :
& Time Setup			2001/1/1

Connectors	Function	Signal description	Number
LINE- In/MIC	Audio in	Connect microphone or output from audio devices.	1
Line Out	Audio out for speaker	Audio from remote site is available from this connector in bi-directional audio mode. Connect speaker with amplifier.	1
Alarm In	Connecting Alarm Sensor	IR sensor, Motion Sensor, Smoke Detector	1
Alarm Out	Connecting Alarm annunciating device	Siren, Flashing Light,	1
RS485	PT device control	Remote P/T/Z device connection having RS485 interface.	1
100Base-T	Network connection	Connect iCanView230/230W to the network, LAN, ADSL or Cable modem.	1

6. Connect the input and output signals to iCanView230/230W.

7. Remote video connection to iCanView230/230W

 Run i-NVR on your PC. Before connecting to iCanView230/230W it is needed to configure the connection information on the i-NVR. More detailed information of using "i-NVR" can be found in [i-NVR User's Guide].

3. Connecting iCanView230/230W to Network

iCanView230/230W supports LAN, xDSL, and Cable modem. It also supports shared IP environment where single IP address is shared by at least 2 IP devices. Refer to **[IP-Installer User's Guide]** for details of setting the IP address for iCanView230/230W.

3.1. Connecting to LAN

In case of connecting the iCanView230/230W to LAN, it is generally connected as in Figure 3-1.



Figure 3-1. Connecting the iCanView230/230W to LAN

1. Follow through steps 1 to 4 in Section 2.5 to assign IP address to iCanView230/230W.

2. Install iCanView230/230W and connect it to desired LAN.

3. Check if you can receive video data when connecting to iCanView230/230W using the viewer program.

4. When one or more IP video products are connected through a IP sharing device (i.e. router) to a larger network (i.e. the internet), in order to access each unit from outside the local area network, each device must have a unique RTSP (Real Time Stream Protocol) and HTTP port number. You must also configure your IP sharing device for "port forwarding". This is to enable the IP sharing

device to forward packet data with unique port number (RTSP and HTTP) to unique internal IP address (local IP address). If you only plan to access multiple units from within a local area network, you do not need to change the RTSP and HTTP port numbers, unless other IP sharing devices sit in-between the client and the IP video products. For more detailed information regarding the use of IP sharing device refer to the document **[Use of Private IP network using IP-sharing-device]**.

3.2. Connecting to xDSL/Cable Modem

1. Follow through steps 1 to 4 in Section 2.5 to assign IP address and other network parameters to iCanView230/230W.

2. Install iCanView230/230W and connect it to xDSL or Cable modem as in Figure 3-2.



Figure 3-2. Connecting the iCanView230/230W to ADSL Modem

When fixed IP address is assigned to the xDSL or Cable modem, follow the same way as assigning IP address for the case of LAN using IP-installer. To enable the notification of the changed IP address to the user over e-mail when the IP address is changed in floating IP environment, you have to assign the e-mail address when user name and password are input using IP-installer. (Management server provides a convenient way of connecting to your network camera under dynamic IP environment. Please refer to the Application note regarding "Management Server" in the CD.)

When connecting iCanView230/230W to xDSL or Cable modem, usually regular LAN cable is required. But since some modems has crossover connections, please contact your service provider for detailed information.

4. IP-Installer

iCanView230/230W needs IP network parameters for connection to the network(Internet/Intranet). IP-Installer is a PC program for the initial network configuration to IP video products such as Network Camera or A/V Server. IP-Installer is provided in a CD supplied with iCanView230/230W or it can be downloaded from "**www.icantek.com**".

Detailed information of Installing and running IP-installer can be found in [IP-installer user's guide]

4.1.	Main	window	of IP-Installer

IP Installer			
Network Adapter	Device\NPF_	(4080CFF5-	AAFA-46A6-AE0D-28E5FC97690D}
MAC Address	IP Address	Name	Refresh Set Reboot Default Admin Adapter
MAC Address Camera Name Management Server			About Exit Net. Mode LAN Static Web Port RTSP Port Clone MAC About
IP Address Subnet Mask Gateway DNS1 DNS2	• • • • • • • •	* * * *	Use WLAN Disable WLAN Radio 802.11b WLAN SSID Auth. Type
Service Name User Name Password			EncryptType

Figure 4-1. IP Installer

All the basic network parameters needed for the initial connection to IP video products can be assigned by IP-Installer. Once the basic parameters are assigned and the initial connection is successfully made, you can connect to the administration page for more sophisticated control of the network parameters and other operational parameters. Refer to Chapter 5 for more details of the administration page.

5. Configuring iCanView230/230W in Administrative Mode

5.1. Log On

There are 2 ways of connecting to iCanView230/230W administrative mode. One is through Internet Explorer and the other is through "i-NVR" program.

1. Using Internet Explorer

Type in the connection address of the network camera in the address window of the Internet Explorer as followings:

http://[iCanView230/230W IP address]/admin.htm

Example: http://172.16.64.133/admin.htm

If you changed the HTTP port from default value you can login by typing in:

http://[iCanView230/230W IP address]:[HTTP port]/admin.htm

Example: http://172.16.64.133:8080/admin.htm

2. Log on from "i-NVR"

Select video channel in the viewing window of "i-NVR". Selected video channel will be

highlighted. Click 🧭 button on the right side of the display screen.



Figure 5-1. Select display channel and click "Camera Admin" button for Log on to administrative mode from "i-NVR" 3. Input User Name and Password in the display screen shown in Figure 5-2.

🎒 http://17	2.16.64.13	3/admin	.htm - Micr	osoft Internel				- 🗆 ×
File Edit	View Fav	orites	rools Help					
🖛 Back \star 🛛	→ - 🛞 I	1 4	Q Search	🙀 Favorites	Media	3	3- 🧿 🗹	•
Address 🥘	http://172.1	6.64.133,	/admin.htm				▼ 🖓 Go	Links »
Enter Net	work Passw	vord					×	
80	T I ·		(4 1 2 2				
~	I his secure	e Web Site	e (at 172.16.6	4.133) requires y	ou to log on	i.		
	Please type Bealm	the User	Name and Pa	assword that you	use for Sec	ure		
		and the second se						
	User Name	1000			<u> </u>			
	Password	*****						
	🗖 Save ti	nis passwi	ord in your pa	ssword list				
				OK	1 0.00			
						Cei		

Figure 5-2. Log On Screen

Factory default User Name and Password are set as 'root' and 'dw2001', respectively. Click on "OK" button to enter into the Basic Setup page of Administrative Mode. If you have changed the username and password of the Administrator, you must log on with the changed username and password.

5.2. Basic Setup

Setup the basic parameters of the iCanView230/230W.

🖹 Administration Settings - Microsoft Internet Explorer				
파일(F) 편집(E) 보기(V) 즐겨찾기(A) 도구(T) 도움말(H) 🦹				
😋 नद्र 🔹 🐑 🔹 😭 🔎 तय 🬟 इत्र ट्रेग 🚱 🔗 🍓 🗹 🔹 🗾 🐒 🖏				
주소(D) 🕘 http://172,16,73,99/admin.htm		🖌 🏹 미동	연결 » 🔁 • 🦓 • 🔛 »	
🚡 🕶 🔁 💠 🙋 Administration Setti,,,			- X	
Administration Tools				
	BASI	C SETUP		
Basic Setup	_	2000 N () () ()		
Network Configuration	System Name	230 Network Camera(Demo)		
CCD Adjustment	🗏 Audio Input Selection			
User Admin & Time Setup		🔘 Line In	⊙ Mic	
Sensor & Capture Setup	🗏 Video Quality & Bandwidth	Control		
Alarm Device Setup	- maco quanti a Danamati			
Motion Region Setup	Input Video Source	NTSC 💌		
PTZ Setup	Video Size	704 × 480 💌		
Encryption Setup		Ch	annal	
Upgrade & Reset	May, upload vato	7169 Khor	lannei	
Status Report	Frame rate	30 Frames		
	* Lower frame rate ensures better	r picture quality at the same enc	odiog rate.	
	* There is no 1:1 relationship hete			
	Video rate	1500 Kbps 🗸		
	Audio rate	32K-Audio 🗸		
	🛚 Possible Max. Users	4	1	
	Remained	1040 Kbps	J	
	Limited Users	4 (Person)		
		SAVE		
응 완료			🔮 인터넷 🔡	

Figure 5-3. Basic Setup

Field/Button	Sub Field /Button	Description	
Language		Select a language of your choice	
System Name		Logical name of the iCanView230/230W. It is same as the one set-up by IP-installer. You can reassign the system name.	
Audio Input		Select the type of input audio.	
Selection		• Select Line In for using Line-out from audio devices.	
		 Select Mic for using microphone. 	
Video Quality	Input Video	This filed is set by the factory	
& Bandwidth	Video Size	Select a video size for transmission-	
Control		 NTSC(30 frames/sec Max.) : 176x144 / 352x240 / 	

		704x480.
		• PAL/SECAM (25 frames/sec Max.) : 176x144 /
		352x288 / 704x576
	Max upload rate	Assign maximum bandwidth of the uplink for the network connected to iCanView230/230W.
	Frame rate	Assign number of video frames to be transmitted for each second. You can improve picture quality by lowering frame rate for the same bandwidth.
	Video rate	Assign bandwidth for transmitting video data.
	Audio rate	Assign bandwidth for transmitting audio data. Audio data is not transmitted if you select " NA "
	Check	After you finish set up of video and audio for all the channels, click on this box to obtain the possible maximum number of users (Possible Max Users) and remaining network bandwidth (Remained) remaining when possible maximum users are connected.
	Possible Max Users	It shows the number of maximum simultaneous connections for the network connection set-up.
	Remained	It shows the network bandwidth remaining when Possible Max Users are connected.
	Limited users	Useful network bandwidth varies according to the condition of
		the network. This parameter is used to limit the number of the
		simultaneous connections below the number shown in Possible Max Users.
Save		Save the set-up parameters when the set-up parameters are done.

5.3. Network Configuration

Setup the network parameters appropriately in accordance with your network environment. Many of the parameters in this page are same as those set up by "**IP-Installer**".

Administration Settings - Micro	soft Internet Explorer			
파일(F) 편집(E) 보기(V) 즐겨찾기(A	() 도구(T) 도움말(H)			
🌀 뒤로 🍷 🐑 🔺 🗾 💋 🧳	🔎 검색 🌟 즐겨찾기 🚱 😥 🗞 🕅 🔻	🔜 🛍 ଃ 🥞 🦀		
주소(D) 🍓 http://172, 16, 73, 99/admin, htm		이동 연결 》 🔁 • 💐 • 🔊		
💼 🔹 🖈 🍘 Administration Setti				
Administration Tools		English 🔽		
	NETWORK CO	NEIGURATION		
Basic Setup				
Network Configuration	IP Assign Type (*: System will be reset) Static IP Setup			
CCD Adjustment	IP Address 172.16.73.99	Subnet Mask 255.255.0.0		
User Admin & Time Setup	Gateway 172.16.0.1			
Sensor & Capture Setup	DNS1 203, 239, 130, 1	DNS2 0.0.0		
Alarm Device Setup	O PPPoE Setup			
Motion Region Setup	Username	Password		
PTZ Setup				
Encryption Setup	Host Name	Domain Name		
Upgrade & Reset	Use Cloped MAC Address 00 00 00			
Status Report				
	HTTP 80 (default: TCP 80)	RTSP 554 (default: TCP 554)		
	ID Filtering			
	Restrict Administrator Access			
	Base IP Address 0.0.0.0	Mask 0.0.0.0		
	E-Mail Setup	e		
	Recy E-mail Address			
	Return E-mail Address			
	Using Built-in SMTP Server			
	O Using External SMTP Server			
	SMTP Server			
	Username	Password		
	IP Address			
		Password		
	Directory	Port 21 (1 C In Ten or)		
		(default: TCP 21)		
	Management Server			
	Logon to server			
	\$	SAVE J		
		🧶 만터넷 🔡		

Figure 5-4. Network Configuration

Field/Button	Sub Field	Description
	/Button	
IP Assign Type		The network types supported by the iCanYiew230/230W are LAN(fixed IP), PPPOE, and DHCP(automatic IP allocation)
	Static IP Setup	When the network environment is fixed IP, select `LAN' in the network type, and put the IP address, Subnet Mask, Gateway, DNSI and DNS2 Ask vour network administrator or ISP for the information. DNS2 is used when DNSI does not work.
	PPPoE Setup	When the network environment is PPPoE and IP address is assigned automatically, select 'PPPoE' in the network type. Next, fill in the 'User Name' and 'Password' fields with the values assigned by the ISP
	DHCP Setup	When the network environment is "automatic IP allocation by
		DHCP", select 'DHCP' in the network type. For cable modem
		connection, select this mode.
		Refer to [IP-installer user's guide] for "Host name and
		domain for Cable Modem
-	Clone MAC	Refer to [IP-installer user's guide] for "Clone MAC"
Port Change	DTCD	Each port should have a number below 65535.
	KI SP	data from the network camera. Default is 554.
	HTTP	HTTP port is used for the connection to the admin page. Default is 80.
IP Filtering		You can restrict the access to the administrator page from IP addresses beyond certain IP address range.
	Restrict Administrator Access	Check at this box to restrict administrative log on.
	Base IP Address	Input IP address of the PC which is intended to be used for log on to administrative mode.
	Mask	This is same as subnet mask. It is used to allow administrative log on only to the PCs located in the same subnet as the base IP address. If you want to allow only one PC to access in administrative mode, set this value to 255,255,255,255,
E-Mail Setup		
	Notify for IP Change	If you check this, the IP address will be sent via E-mail whenever the IP address changes. It is sent to the E-mail address set by " Recv E-Mail Address ".
	Recv E-Mail Address	Enter E-mail address to receive information sent from your network camera. This is same as E-mail field in IP-installer.
	Return E-Mail	Fill in this field with correct e-mail address to identify the mail
	Using Built-in	If you are using web mail services having no SMTP server,
	SMTP Server	check the radio button at the left of "Using Built-in SMTP
		Server" and enter valid e-mail address to avoid spam filtering on the receiving e-mail server.
	Using External	If you are using external mail server, fill in the fields with proper parameters.
FTP Server	SMIP Server	Setup IP address, Username, Password and Directory of FTP

Setup		server to send data in case of alarm. Default FTP port number is 21.
Management Server		You can register the network camera to the Management Server (DDNS Server) for name service to your network camera.
	Log on to server	Check this box to enable log on to the management server. By log on to the management server your network camera can use domain name instead of numeric IP address. This feature is particularly useful when your network camera is using dynamic IP address. Input valid management server (DDNS Server) name for the service. You must have an account on the management server (DDNS Server) and register your IP video devices under your account to use this feature.
		Domain name of your network camera can be assigned when you register your network camera to the management server under your account. One of the servers available is mgmt.net-video.net . For opening an account, visit www.net-video.net .

5.4. Wireless Configuration(iCanView230W Only)

For the case of a network camera having built in wireless LAN it is needed to set up wireless LAN configuration parameters. Click "**Wireless Configuration**".

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	WIREL	ESS CONFIGURATION		
Basic Setup				
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Wireless Configuration	WLAN Padia	802116		
User Admin & Time Setup	WLAN KOUIO	Sevie Test		
Sensor & Canture Setun	SSID	Savio rest		
Alarm Davice Setup	Authentication	Open System 👻		
	Encryption	OFF		
Motion Region Setup	Key			
PTZ Setup	Power Level	Extra-high 🗸		
Encryption Setup				
Upgrade & Reset		A SAVE		
Status Report	WLAN Information			
	MAC Address	11:22:33:44:55:66		
	BSSID	aa:bb:cc:dd:ee:ff		
	Current Channel	3		
	Signal Strength	99 (%)		
	Link Quality	98 (%)		
	IX Rate	5.5		
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Figure 5-5 Wireless Configuration

Field/Button	Sub Field	Description
	/Button	
Wireless LAN	WLAN Mode	Select "ESS" to use wireless interface. If "Disable" is selected, Ethernet interface is used instead of wireless LAN interface.
Setup	WLAN Radio	Select the mode of Wireless Radio.
	SSID	Enter the ID of the wireless LAN access point to be connected
		when wireless LAN interface is selected.
	Authentication	Select the type of authentication.
	Encryption	Select the mode of encryption. If encryption is not needed,
		select "OFF"
	Кеу	Set the value of encryption key or pre-shared key.
	Power level	Set the maximum transmission power level or wireless LAN.
WLAN	MAC Address	Indicates MAC address of the wireless LAN.

Information	BSSID	Indicates the ID of the connected access point. In general the MAC address of the access point is shown.
	Current	Indicates the channel number of present connection.
	Channel	
	Signal	Indicates the strength of the received signal.
	Strength	
	Link Quality	Indicates the quality of Link level.
	Tx Rate	Indicates the speed of the latest transmission

5.5. CCD Adjustment

You can optimize the quality of input video by adjusting the parameter of CCD. To enter into this mode, click "**CCD Adjustment**" in administrative page. You will find a screen shown in Figure 5-6.

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Basic SetupNetwork ConfigurationCCD AdjustmentUser Admin & Time SetupSensor & Capture SetupAlarm Device SetupMotion Region SetupPTZ SetupEncryption SetupUpgrade & ResetStatus Report	CCD CCD Control Backlight Compensation Auto Gain Control Flickerless Brightness Control	ADJUSTMENT DC Iris OFF OFF OFF I6 SAVE SAVE			
e		🧭 안터넷 💦			

Figure 5-6. CCD Adjustment

Field/Button	Sub Field	Description
	/ Dullon	
Lens Selection		Standard iCanView230/230W is delivered without lens. Any lens having C or CS mount type can be installed on iCanView230/230W. A C-CS adaptor is packaged with iCanView230/230W for
		accommodating CS type lens.
		Confirm whether your lens is Non DC IRIS or DC IRIS lens
		before your selection and then click "SAVE" to save your
		selection.

	DC IRIS Lens Non DC IRIS Lens	DC IRIS lens is a kind of auto IRIS lens. Opening of IRIS can be adjusted by applying DC voltage. The opening of IRIS is optimally adjusted by detecting the signal level from CCD. This type should be selected when DC IRIS lens is mounted on your iCanView230/230W. Non DC IRIS lens is a fixed IRIS lens. Non DC IRIS lens is factory default selection.
CCD Control	Backlight Compensation	When the camera is acquiring video from object with bright backlight, it is hard to identify the details of target object since the object appears very dark. Apply backlight compensation mode for this case. Default mode is backlight compensation Off.
	Auto Gain Control	If you set the value to ON, the gain is automatically adjusted in accordance with the illumination condition.
	Flickerless	In case of using NTSC type iCanViewV230 in 50Hz AC regions or using PAL type iCanView230/230W in 60Hz AC region, video output tends to flicker when iCanView230/230W is used under fluorescent lamps. This mode reduces the flickering phenomena. If this mode is selected, electronic shutter speed is set to 1/100 sec for NTSC camera while it is set to 1/120 for PAL camera to synchronize the shutter speed to AC current. <note> : Make sure that you apply this mode only when using NTSC camera in PAL region or PAL camera in NTSC region.</note>
Brightness		Adjust the amount of light reaching CCD manually.
Control		Select the value between 1 and 32. For brighter video select
SAVE		Click "SAVE" to save your selection

5.6. User Admin & Time Setup

You can change the ID and password of users and also assign different attributes for each user.

Administration Settings - Microsoft Internet Explorer				
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Network Configuration	User Administration			
CCD Adjustment	Username			
User Admin & Time Setun	Password	(0, 16 short)		
Sensor & Canture Setun	Our Case Decement	(8 ~ 10 mar)		
Alarm Douico Sotup		(SAVE)		
Mation Degion Satur				
DT7 Setup	Password			
Francistics Column	Password	(8 ~ 16 char)		
	Attribute	Audio Bi-Audio PTZ (AVE)		
Upgrade & Reset	USEI LISC	DELETE		
Status Report	_			
	Authentication for vie	wing SAVE		
	If no. default attribute			
	Current Time	2006-08-11 Time 19:33:44		
	Ourient fille Date	chronize with an Internet Time Server time.windows.com		
	Spec	cific Time Server		
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	O Syn	chronize with this Computer Time		
	Time Setting Date	2006-08-11 Time 19:34:15		
	O Set	Manually		
	Date	2006-08-11 (yyyy-mm-dd)		
	Time 1	19:33:34 (hh:mm:ss)		
		(SAVE)		
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Figure 5-7. User Admin. & Time Setup

Field/Button	Sub Field	Description	
	/Button		
User Administration	Administrator Username	Admin ID. Default ID is "root"	
	Administrator password :	Admin password. The default password is "dw2001".	

	Administrator	Enter the password once more to confirm the password.
	Confirm	
	Password	
	Add User	Enter the user ID you want to add. Up to 100 users are
	Username	supported by iCanView230/230W.
	Add User	Enter the user password.
	Password	
	Add User	You can set different system resource access capabilities for
	Attribute	 each of the users. Attributes are Audio, Bi-directional Audio and Pan/Tilt
		control.
		• For example, if you want a specified user to hear the
		audio from the iCanView230/230W, check Audio in the
		check box.
	User List	You can list "user ids" and " their attributes" here.
		• format : user id[A, BA, P] :
		 A – audio,
		 B – bi-directional audio,
		P – pt(Pan/Tilt), attribute.
		You can delete specific user by clicking the DELETE button.
Authentication	YES	If you want to restrict viewing access to the iCanView230/230W.
for Viewing	SAVE	check at the box left to Yes and click on Save. Users need to
		input ID and password to connect to iCanView230/230W in
		viewing mode in a pop up window as shown below
		Username:
		Password:
		OK Cancel
		Figure 5-8. User Authentication in iCanView230/230W
	If No, default	If you uncheck for the Authentication for Viewing, all users can
	attribute	access the iCanView230/230W with the same attribute set here.
		attribute.
Time Setup	Current Time	It shows you the current time of iCanView230/230W.
	Synchronize	Synchronize the time with the internet time server at the right.
	with an	When the time server is out of the reach from
	Time Server	Specific Time Server field
	Synchronize	Synchronize the time with the time of the PC.

	Time		
	Set Manually	Set the time manually. Fill in the fields with desired formats.	
SAVE		Save the set up parameters	
If you lost Administrator's ID and password, the only means of recovery is to reset			
🕒 🛛 the sett	the settings to factory default, but then you lose your previous settings.		

5.7. Sensor & Capture Setup

This is the setup page for sensors and video capture conditions. Captured video can be sent to user by FTP or E-mail upon configuration.

Administration Settings - M	licrosoft Internet Explorer			
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		SENSOR & CADTURE	SETUD	
Basic Setup		SENSOR & CAPTORE	SETUP	
Notwork Configuration	Sensor Setup			
	Sensor 1	Normal Open 🛛 🔽		(Name)
CCD Adjustment				
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Sensor & Capture Setup		Sensor		
Alarm Device Setup	Motion Detection S	elect		
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PTZ Setup				
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Lingrado 9. Pocot		SAVE		
Status Report				
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Figure 5-9. Sensor & Capture Setup

Field/Button	Sub Field /Button	Description		
Sensor Setup	Sensor 1	Select sensor type. There are two types of sensors which are Normal Open and Normal Close.		
	Name	Input logical name for the sensor.		
Video Capture Condition		It sets the condition of video transmission via FTP or E-mail. The iCanView230/230W supports 2 types of conditions which are mutually independent. 1. Sensor initiated: when at least one of the sensor detects alarm condition. 2. Motion-Detection initiated : when motion is detected from video channel		
	Sensor	Check to enable Sensor initiated capture.		

	Select	
	Motion	Check to enable motion detection initiated capture.
	Detection	
	Select	
Captured		Select a way of sending captured video. You can send captured
Video		video through FTP or E-mail, or both.
Transmission		-
	By E-Mail	Check to send captured video by e-mail.
	-	
		E-mail is sent to the Recv E-mail address. Refer to [Section
		5.3.]
		Captured video data for E-mail consists of intra frames only in
		consideration of the limited storage space for E-mail account.
		FTP data contains entire video frames.
	By FTP	Check to send captured video by FTP.
		FTP is sent to the FTP Server. Refer to [Section 5.3.]
		If the FTP server is not properly assigned in "Network
		Configuration" mode, iCanView230/230W ignores the video
		transmission by FTP
SAVE		Save the setup parameters.

5.8. Alarm Device Setup

Test the alarm output and describe the condition of alarm annunciation.

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	ALARM DEVICE SETUP	
Basic Setup		
Network Configuration	Device 1 ON OFF Off	
CCD Adjustment		
User Admin & Time Setup	Sound Test (TEST)	
Sensor & Capture Setup	Alarm Device Active Condition	
Alarm Device Setup	(Name)	
Motion Region Setup	Device 1 Sensor	
PTZ Setup	Motion	
Encryption Setup	Duration 10 sec 💌	
Lingrade & Reset	(SAVE)	
Status Report		
⑧ 완료		

Figure 5-10. Alarm Output Setup

Field/Button	Sub Field	Description
	/Button	
Alarm Device		Test alarm devices. Click on On/Off for testing
Test		Small box with white background indicates the status of the
		relay by On/Off.
	ON	On the alarm output (close the relay contact)
	OFF	Off the alarm output (Open the relay contact)
Sound Test		-
Alarm Device		Setup the condition of activating alarm device. Select sensor or
Active		motion detection as the condition.
Condition	Name	Logical name of the alarm device can be input into the box at the left.
	Sensor	Check at the box at the left of to allow alarm generation upon
		sensor input.
	Motion	Check at the box at the left to allow alarm generation upon
		Motion detection
	Duration	Set the duration of Alarm annunciation.
		10 sec, 30 sec, 1 min, 2 min, 5 min, 10 min, 30 min, 1 hour.
SAVE		Save the setup parameters.

5.9. Motion Region Setup

Set the motion detection regions. Up to 3 regions can be defined.



Figure 5-11. Motion Region Setup

Field/Button	Sub Field /Button	Description
Channel Selection		Not applicable.
Channel Sensitivity		Set the sensitivity in motion detection for each channel. 1 is the most sensitive, and 10 is the least sensitive.
Motion Region		Set up to 3 the motion detection zone
Setup	Region 1, 2,	Enable each zone by checking the box at the left of each Region.
	or 3	. To set the region,

		^{1.} Click on START and click on a box overlaid on the		
		video		
		^{2.} Click on END and click on a box overlaid on the video.		
		3. The defined motion detection zone will be indicated		
		with corresponding colors.		
		Legend of the color :		
		red(region 1),		
		green(region 2),		
		blue(region3).		
	START	Enable selection of rectangular zone start.		
	END	Enable selection of rectangular zone end.		
	SELECT	Click on this button and click on desired rectangle to add or delete		
		the rectangular region to the motion detection zone.		
	Percentage	This value controls the sensitivity of each region.		
		1 is the most sensitive and 100 is the least sensitive		
	RESET	Clears the start & end point to (0,0) & (0,0)		
SAVE		Save the setup parameters.		

5.10. PTZ Setup(Zoom is not applicable for iCanView230/230W)

Setup and test the PT(Pan/Tilt) devices.



Figure 5-12. PTZ Setup

Field/Button	Sub Field /Button	Description		
Channel Selection		Not applicable		
PTZ Model		Choose the PT model.		
Selection		Refer to section 5.12 for the addition of PT protocol data.		
	Delete	Press this button to delete the setup of PT		
	Button			
PTZ Device ID		Your PT device needs an ID, input ID in this field.		
		Click on SAVE to save the ID.		

		Note that zoom is not applicable for iCanView230/230W.				
PTZ Operation		You can check the various operation of the PT devices.				
Check		"Left"/"Right"/"UP"/"DOWN"				
PTZ Position Setup		You can set up the PTZ limitation & preset positions if the PT device supports it.				
	Panning	Set the left/right limitation and test.				
	Limitation	Select Left/Right position before setting.				
	Panning	Clear the panning limitation previously set.				
	Limitation	The panning range will be the same as the PT device allows.				
	RESET					
	Panning Limitation	Set the present position as left or right panning limitation.				
	SEI					
	Panning Limitation	lest the panning limitation which was set previously.				
	TEST					
	Preset Position :	Set the preset position and test.				
	Preset Position	Select a preset position to move to. Movement to the pre- position will be made upon clicking on " MOVE "				
	Preset &					
	Move					
	Preset	Assign logical name for the preset position. Enter into the field				
	Position	and click on SET.				
	Name Set					
	Preset	Set the present position as a preset position with position number				
	Position	snown at the right of "Preset & Move" and name shown at the right of "Name Set"				
	Set	Ingrit of Indrife Set i				

<Note> : "PTZ Position Setup" feature is applicable only for the PT devices that support it.

5.11. Encryption Set up

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	ENCRYPTION SETUP			
Basic Setup				
Network Configuration	Enable data encryption (* System will be reset)			
CCD Adjustment				
User Admin & Time Setup	(SAVE			
Sensor & Capture Setup				
Alarm Device Setup	🖴 Key Value			
Motion Region Setup	1 cFIFy3 2 e2doyy 3 M2sptg 4 vXWMR1			
PTZ Setup	5 r1HJOv 6 8SZc7d 7 ADtjGv 8 a9gnsg			
Encryption Setup	9 dEz7cQ 10 4Pimrp 11 EAwkVv 12 PDblvv			
Upgrade & Reset	13 2PIPMi 14 OVHQeH 15 F60QPF 16 SRG9jU			
Status Report	17 1JHp9g 18 ZYGDzg 19 IKBMbr 20 JPdyVc			
	(<u>GENERATE</u>)			
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	호마보기 INSTALL			
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Figure 5-13. Encryption Setup

For additional security to the video and audio data transmitted from the network camera, you can set key codes and use them for encrypting the data from the network camera.

You can selectively activate encryption for the video and audio data. For enabling the encryption, check at the box at the left of the "Enable data encryption" then check at the proper check boxes at the left of "Video" and "Audio". After the selection, click on SAVE button beneath the "Video" and "Audio" check boxes.

Field/Button	Sub Field /Button	Description		
Enable Data Encryption		Check at this box to apply data encryption. If it is unchecked encryption is applied on neither video nor		

		audio data regardless of the selection below.				
	Video	Check to enable encryption on the video data.				
	Audio	Check to enable encryption on the audio data.				
	SAVE	After the selection, click on SAVE button.				
Key Value		You can use up to 20 different key codes for the encryption of the data				
	GENERATE	To generate the key value click on "GENERATE" button. The boxes for the Key values will be filled with new values.				
	SAVE	Save Key value on the network camera : Click on SAVE button beneath GENERATE button to save the key value generated by the network camera.				
	DOWNLOAD	Download Key value to your PC : The key values can be downloaded and stored as a file to your PC for reference when you make connection. When encryption is enabled, the PC client program will ask for particular key value out of the 20 available key values.				
	INSTALL	Upload key value to the network camera : The key value stored on your PC can be uploaded to your network camera. This feature is useful when you manage multiple network cameras having same key value sets. Select a file having key values then click on "INSTALL" button to upload the key values. Find file saving the Key value before uploading to the network camera.				

5.12. Upgrade & Reset

You can upgrade the iCanView230/230W via the IP network.

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🚡 🗧 🖶 🔮 Administration Se	tti	K.		
Administration Too	Is English V			
	UPGRADE & RESET			
Basic Setup	Automatic Hannada			
Network Configuration				
CCD Adjustment				
User Admin & Time Setup	Manual Upgrade System S/W Ungrade (Ourrent Version + 0.9.0)			
Sensor & Capture Setup	· System Sy W Opgrade (Contenc Version - 0.5.0) · · · · · · · · · · · · · · · · · · ·			
Alarm Device Setup				
Motion Region Setup	· · · · · · · · · · · · · · · · · · ·			
PTZ Setup				
Encryption Setup	호아보기 INSTALL			
Upgrade & Reset				
Status Report	E Factory Default Setting			
	CONFIRM			
	System Reset			
ê		.:		

Figure 5-14. Upgrade & Reset

For each of the upgrade of the system component, upgrade code should be downloaded from **iCanTek**'s home page before the system upgrade is performed.

(Refer to [6.4. How to Upgrade Your iCanView230/230W System]

Field/Button	Sub Field /Button	Description
Automatic Upgrade		Automatic upgrade is a feature that enables network camera to upgrade to newly released system software by automatically connecting to upgrade server. Click on check button to find the availability of upgrade firmware. Note that automatic upgrade is not supported for standard product .
Manual		Upgrade the system manually.
Upgrade	System S/W	Upgrade the system software installed in the network camera

	Upgrade	via the network. System software needed for the upgrade can be downloaded from iCanTek's home page.			
		Refer to [6.4. How To Upgrade Your iCanView230/230W			
		System].			
	Bootloader Upgrade	Upgrade the bootloader installed in the network camera via the network. Bootloader needed for the upgrade can be downloaded from iCanTek's home page.			
		Refer to [6.4. How To Upgrade Your iCanView230/230W			
		System].			
Add PTZ File		Add a new PT driver software via the network. PT driver can be downloaded from iCanTek's home page.			
		Refer to [6.4. How To Upgrade Your iCanView230/230W			
		System].			
Factory		Re-initialize the network camera to factory default state.			
Default Setting		By checking on a Radio button "Except Network Configuration",			
Secting		you can preserve the parameters for the network. Checking on			
		"All", will return all the parameters to factory default state.			
		Once iCanView230/230W is re-initialized as factory			
		default state, it should be set-up again using IP-			
		Installer.			
System Reset		Perform remote reset by clicking the "CONFIRM" button.			
		All previous connections will be disconnected upon reset.			
		iCanView230/230W does not resume the connections			
		and the users must re-connect to the server manually.			

5.13. Status Report

It shows you system records since the system started.

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주소(D) 🍓 http://172,16,73,99/admin.htn	1	🔽 🔁 ol	동 연결 » 📆 •	🍂 🔹 🛸
🚡 🔹 🗜 🔮 Administration Setti,,,				- X
Administration Tools			English 🗸	
Basic Setup	STAT			
Network Configuration	BoxCamera(OEM) v0.9.0 (06/09	5/26)		
CCD Adjustment	Management Web Server	v0.9.0 (06/05/26) v0.9.0 (06/05/26)		
User Admin & Time Setup	Stream Server Audio	v0.9.0 (06/05/26) v0.9.0 (06/05/26)		
Sensor & Capture Setup	Video Demon	v0.9.0 (06/05/26) v0.9.0 (06/05/26)		
Alarm Device Setup	Flash Device Driver	v0.9.0 (06/05/26) v0.9.0 (06/05/26)		
Motion Region Setup	Mgmt Client	v0.9.0 (06/05/26)		
PTZ Setup	AccessNetwork	v0.9.0 (06/05/26)		
Encryption Setup	TCP/TP Stack	VU.9.U (U0/U3/20)		
Upgrade & Reset				
Status Report				
	2			>
	Additional Information	00.07.10.70.#0		
	MAC Address	0.000		
	Management Host Name	0.0.0.0		
	System ID	0000000		
	Connected Session	0		
🕘 완료			🥥 인터넷	.:

Figure 5-15. Status Report

You can check the problems as well as the versions and event status of the whole system and each module.

6. Tips for using iCanView230/230W

6.1. ALARM-IN and ALARM-OUT

ALARM connectors are used to connect various sensing and alerting devices. Examples of sensing devices are infrared sensors, motion sensors, heat/smoke sensors, magnetic sensor, etc. ALARM-OUT is used for connecting alerting device such as loud speaker, flashing light, etc.



Figure 6-1. ALARM-IN/ALARM-OUT Connector

1. ALARM-IN

Connect the two wires of the sensors to "Alarm In". The sensor type can be set in Administrative mode(Ref. 5.7). Output lines providing on-off switching are connected

between "+" and "-" pins. Figure 6-2 shows the input circuit of "Alarm In".



Figure 6-2. SENSOR input of iCanView230/230W

2. ALARM-OUT

A Relay output is provided for connecting alarm devices or for remote on/off devices such as light control. Relay circuits are normal open and circuits are closed upon alarm output or remote on. The relay is capable of switching AC/DC 30V,1A electrical signal.



Figure 6-3. RELAY Output of iCanView230/230W

- 3. Connection of Sensor, Alarm Device
 - NO/NCType Open CollectorType Photo Coupler Sensor1+ Sensor Sensor $\frac{c}{c}$ Device Device + ₹7 Sensor1-0 GND +12V Sensor⁺ Sensor Power Power Supply Supply **3.2Connection of Relay**







You can use the supported relay output to directly drive a maximum load of 30V AC/DC at 1A. By connecting additionally relay circuitry (such as optional relay switch), it can also drive heavier loads.

6.2. Trouble Shooting

1. After iCanView230/230W is successfully installed.

• iCanView230/230W in viewing mode, neither channel name nor video is display and eventually timeout message is shown up.

Check the power and network connection of iCanView230/230W.

To check if the network is properly operating, open the browser and try to connect to any server.

Example) http://www.yahoo.com

Or open the MS-DOS Prompt and type the following.

ping www.yahoo.com

Then press Enter. If you see the "Reply from ..." message it means that the network is working properly. To check if the iCanView230/230W is connected, open the MS-DOS Prompt and type the following.

ping [the IP of the server]

Example) ping 192.168.1.112

If you see the "Reply from ..." message, it means that the server is properly connected. If you do not see a Reply message, check if the network cable and power cable are properly connected.

2. After Successfully Connecting to the iCanView230/230W

• <u>Video movement is slow.</u>

In Basic Setup of Admin Mode, lower the "Quality". High quality means more data. You can also set the "Max. upload rate" to higher value. But this value must be lower than the maximum upload speed of your network. For example, if the maximum uploading bandwidth of the network is 400Kbps, set the total "Max. upload rate" as 384Kbps. If you set it higher, the video image can be corrupted with artifacts.

Ask your network manager or ISP for maximum uploading bandwidth of the network.

The image is dull and I see green, pink dots.

This could be caused by performance limitation of the PC. Do not run too many programs while running viewer program. The other reason could be missing data while transmission from

iCanView230/230W.

• Mosaic phenomenon.

Mosaic phenomenon occurs when not enough network bandwidth is available considering the resolution and frame rate of the video.

Example is 704x480 video with low Max. upload rate.

Users are recommended to adjust resolution and frame rates to lower values for lower bandwidth network.

6.3. Web Viewer

iCanView230/230W is designed to be connected through internet explorer, too. For connection to iCanView230/230W using internet explorer type in IP address or host address in the address input field of the internet explorer.



Figure 6-4. Web Viewer of iCanView230/230W

• Control Panel of Web Viewer

ی کی او او	9	Enable bidirectional audio. When bidirectional audio is enabled, voice from your PC is delivered to iCanView230/230W.
	0	Capture and store the still image on your desk top screen.
	()	Connect to iCanView230/230W in administrative mode of iCanView230/230W.
	(\mathbf{r})	Rotate the screen by 180 degree.
		Connect to iCanView230/230W.
		Stop the connection.
		Contrast, Brightness, and Volume adjustment.
		Check the box to mute the audio.
⊙ x1 ○ x2 ○ x1/2 ○ Full		Adjust the size of the screen. Normal $(x1)$, Twice $(x2)$, Half $(1/2)$, Full Screen $(full)$
😧	(?)	On/off the relay by pressing the button
1		Shows the status of the sensor. Blue color means that the sensor is in normal state, while red color indicates alarm situation.
		Number on the button indicates the
		number of sensor.
Z+ Z- F- A/F	A V	Move the center of the camera in up/down/left/right directions.
	Z+	Zoom in (Z+)
	Ζ-	Zoom out (Z-)
		Not applicable for iCanView230/230w.
	F-	Move the focus to further position.
	A/F	Auto focus.
		Not applicable for iCanView230/230w.

F+	Move the focus to nearer position.
	Not applicable for iCanView230/230w.

6.4. How to Upgrade the iCanView230/230W

Unless otherwise instructed, the owners of the iCanView230/230W are recommended to upgrade the system when upgraded firmware is released using manual upgrade procedure.

Followings are the procedure to apply for the manual upgrade

- 1) Save the upgrade system software to your PC. Upgrade software can be downloaded from iCanTek's home page or provided in CD.
- 2) Log on to administrative mode and select "Update & Reset" menu.
- 3) Click "Browse..." to find the files you want to use for upgrade. This will open a "Choose file" dialogue window. The file extension is "ief".
- 4) When you've found the file, click "Open." This will select the file and close the "Choose file" dialogue window.
- 5) Click the "INSTALL" button. An alert message box will pop up. Click "OK" button then it will start uploading the file. This may take some time.
- 6) Upgrade completion message will appear after the system upgrade has been completed.
- 7) Reboot iCanView230/230W by performing "System Reset".
- 8) After rebooting, log on to the server in administrative mode again and click the "Status Report".
- 9) Check the version number and release date of the iCanView230/230W.



You can download iCanView230 system software from iCanTek^I homepage. http://www.icantek.com