# Firmware User's Manual A1D-311-V5.07.05-AC

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## 1. Recommended PC Specification

Core2Duo 2.13GHz and above		
2 GB or above		
Windows XP with SP2 or above. Windows Vista / Windows 2003 / Windows 7 / Windows 2008 Internet Explorer 6.0 SP2 / Internet Explorer 7.0 / Internet		
Explorer 8.0 SVGA or XGA with 1024x768 resolution		



## 2. Preparation before setup

## Connect to device and setup IP

Our IP device provides access through Internet Explorer. The IP address for your PC must be within the same subnet as the IP device. You need to match the TCP/IP settings between PC and IP device before you can access it via IE.

There are two ways to add devices to the network.

#### With DHCP server / router:

DHCP server assigns IP addresses to devices automatically. You can find them on the network with our **IP Utility**. It is available on NVR CD and our website:

#### http://www.acti.com/IP\_Utility

Run IP Utility to start auto device search. Click on the underlined IP links to access your IP devices. You do not need to change IP.

### Without DHCP server / router:

Please assign a static IP for each device and add them one by one. Connect to the first device by following steps 1 to 5 below.

Before adding more devices into the network, you need to change the current device to a new IP address so no two devices have IP conflict. (Steps 6 to 9).

### For adding devices without DHCP, please see following steps.

- Connect the PC to the Network Switch with the CAT5 cable, and change your PC's IP to 192.168.0.99 / Subnet Mask 255.255.255.0 (101 is just a sample, it may be any number from 1 to 254 except 100.)
- 2. Connect the device to your Network Switch. If it is a PoE enabled Switch, then the device is powered on. If it is NOT a PoE enabled Switch, please also plug in the Power Adapter.



3. Open Internet Explorer, and type in **Default IP:** 

#### http://192.168.0.100

- When you see the login window, please input default user and password:
   Default Username: Admin Password: 123456
- 5. After you log in, you will see the video from IP device. To go to the main menu, click the "Setup" button on the top left.
- Please go to IP settings -> Connection Type. Change the IP mode to Static and the IP address to 192.168.0.101 or any other unused IP (Avoid 192.168.0.100, the IPs of your PCs and other devices already in network.). Click "Apply" then click System -> Save & Reboot.

Connection Type				
O Dynamic IP Address				
Static IP Address				
IP Address	192 . 168	. 0	. 101	
Subnet Mask	255 _ 255	. 255	. 0	
ISP Gateway				

- 7. Internet Explorer will close after a few seconds. This is normal.
- Wait for 30 seconds and open IE again by typing in the new IP. (In this example, 192.168.0.101). For later device you add into the network, please choose an IP that does not is not used by any existing device.
- If you have more than one device, continue again from step 2. Assign different new IP to each camera (for instance -> 192.168.0.102, 192.168.0.103 ...). You do not need to unplug the existing devices from the switch because there is no IP conflict.



## Sample screenshots to setup IP of your PC (Win XP)

The procedures below show how to setup your IP on Windows XP. If you use operating system other than Windows XP, please refer to OS manuals for proper setup procedures.

### STEP1

Start up your PC.

### STEP2

Click the [Start] and select the "Control Panel"

Paul.Chen		
Internet Explorer         Internet Explorer         Internet Explorer         Image: E-mail Microsoft Office Outlook         Image: Notepad         Image: Adobe Acrobat 7.0 Professional         Image: Microsoft Office Excel 2003	My Documents         My Recent Computer         My Recent Places         My Control Panel         Set Program Access and Defaults         Connect To         Connect To         Printers and Faxes         Help and Support         Parch	
All Programs 📡	707 Run	
	🖉 Log Off 🚺 Shut Down	

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### STEP3

Double-click the "Network and Internet connections" icon.



#### **STEP4**

Double-click the "Network connections" icon



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#### STEP5

Click "Local Area Connections", and then click "Change settings of this connection" in the

Network Task menu.



### STEP6

Click "Internet Protocol (TCP/IP)", and then click [Properties]

🔟 Local Area Connection Properties 🛛 🔹 💽					
General Advanced					
Connect using:					
Broadcom 440x 10/100 Integrated Cc Configure					
This connection uses the following items:					
🗹 🚚 QoS Packet Scheduler 🗾 🔼					
✓ T AEGIS Protocol (IEEE 802.1x) v3.1.6.0					
Internet Protocol (TCP/IP)					
Install Uninstall Properties					
Description					
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.					
<ul> <li>✓ Show icon in notification area when connected</li> <li>✓ Notify me when this connection has limited or no connectivity</li> </ul>					
OK Cancel					

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#### STEP7

Click the "Use the following IP address" radio button and enter the IP address and the subnet mask.

Internet Protocol (TCP/IP) Properties	1
General You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for	Please set the settings as below.
the appropriate IP settings C Obtain an IP address automatically C Use the following IP address: IP address: Subnet mask: D dia b external D dia b external	IP address: 192.168. 0.xxx Subnet mask: 255.255.255. 0 ( <b>NOTE</b> : xxx should be a number from 1 to 254 except 100, which is
Or Obtain DNS server address automatically      Or Use the following DNS server addresses	used by the IP device. Please also make sure that no two equipments
Preferred DNS server:	use the same IP address in the same network.)
Advanced OK Cancel	

## STEP8

Click the [OK] button and the window dialog box will close.



## 3. Configuring the IP device

This section describes how to configure the IP device. The administrator has unlimited access to all settings, while the normal user can only view live video. The IP device is configured under a standard browser (Microsoft Internet Explorer 6.0 / 7.0 / 8.0).

## Login

### STEP1

Open Internet Explorer 6.0 / 7.0 / 8.0. You may download the latest version from: <u>http://www.microsoft.com/windows/ie/downloads/default.mspx</u>

### STEP2

Enter the IP address of the IP device and press enter to go to Login Page. The default IP address is "**192.168.0.100**"

	Lo	gin	
	Account Password Language Englis	h V	English Traditional Chinese Simplified Chinese Japanese Spanish Italian German Portuguese
	Login	Reset	Czech French Greek Dutch
TEP3 nter the Account name a Default Account: Admir		56)	Russian Turkish Indonesian Polish Romanian

#### STEP4

Select the language of the IP device user interface.

You can select between English, Traditional Chinese, Japanese, Spanish, Italian, German, Portuguese, Greek, Russia, Turkey, Indonesia and Swedish. This user interface setting will disappear once you log out, if you want to change the default user interface language, please go

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to [Host] in the "Host" section under the setup tab.

### STEP5

Click the

Login

button to login or click the

Reset

button to re-enter

again. Once you've logged in, the "Live page" will be displayed as below.

## Live view

Click the 1 [Live] tab to show [Live page]. Refer to the table below for how to configure each

setting.



## **Function List**

Function Description			
3 Full Screen	Click the icon to stretch the preview to full screen. You can		
	click "Esc" button on the keyboard to return to previous display.		
4 Snapshot	Click the icon "		
	will be saved to the default folder		
	"C:\Users\"account name"\Picture", in the format of		

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	YYYYMMDD_HH_mm_ss.jpg.
5 Audio out	Click the icon to enable the audio out from PC to IP camer
	or video server. When it is enabled, your voice will be transferred to
	the audio out of the IP camera or video server.
	NOTE: you will need to have a microphone connected to your PC t
	send out audio.
6	If dual stream mode is enabled, click $6$ to select which stream t
Media	display (Media 1 or 2). The default is single stream only. To change
	to dual stream mode, please refer to "Media 1" section under
	"Setup" tab
2	Click 🚺 to select the compression codec used in video encoding
Encoder Type	The Encoder type option includes MPEG-4, MJPEG and H.264.
	Once selected, the video server/IP camera will start to send video
	in new stream type.
8 Display size	Click et adjust display screen size
9 Audio in	Click the speaker icon to toggle mute / audio in. Click and drag to
	decide volume below. You must first enable audio in setting to
<b>0</b>	change here.
PTZ Panel	Click on the PTZ button to pop up the Control panel, and enable
	Mouse PTZ at the same time. For zoom lens camera, Panning and
	Tilting via PT platform will only be activated by mouse PT
	command.
	*Note: This is not available in 4 cropped VGA mode.
DO Settings	Click to set DO output level to High. Click it to set DO
	output level to Low. If your device has more than one DO available
	each DO is controlled separately.
Network status	Indicates the network state. If the light on the right is green,
-	means the network is ok. If the light is gray, it means the network is
	broken. The light on the left is not used
•	Live view from Camera is displayed here. The title bar shows the
13 Live View	time and date.

If you want to setup this IP camera/video server, please click the <sup>2</sup> [Setup] tab to switch to "Setup Page"

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## **Zoom Lens Control Panel**

If you are using **Zoom / Auto Focus camera**, this screen is available by clicking on PTZ button in the live view screen.

Auto Refocus after Zoom

MANUAL

You can change the current zoom ratio by clicking on either the continued Zooming buttons, or the Stepped zooming buttons. Step size will determine how much each click on stepped zooming changes the zoom ratio. Speed determines how fast will zoom control operate under continued zoom.

There are two Focus Control Modes.

- Auto Refocus after Zoom means that the camera will readjust focus after every zooming operation.
- Manual focus control will allow you to manually select the focus distance, so that if the automatically determined focus position is not what you have in mind, you can easily adjust it to your liking.

Mode

Preset

F	Preset	
	Save c	urrent position as home position
	Apply	Remove
	PTZ Ve	endor/Protocol
	ACTIVAC	CTI 🗨
$\left  \right $	Zoom	Control
	Speed	5 💌
	Contin	ous Zooming 🔍 🔍
	Step S	ize 100
_	Steppe	ed Zooming 🔍 🔍
	Focus	Control
	Mode	Auto Refocus after Zoom 💌 Refocus
	Preset	t
1	No.	Name 🐵 🖶 🖮
1	1	2
	2	2
	3	2
	4	
	5	12

You can press the "Refocus" button to readjust focus.

You can configure up to 32 Zoom presets below. Just click Set, enter the name and move the zoom/focus position to what you desire, then click set again. You can instantly ask the camera to go to that zoom and focus position by clicking on the Goto button.

Click Delete to remove this zoom preset point from camera memory.

### **Preset Tour**

After you set the Preset Point, the Tour function will be enabled.

		РТΖ
Preset	Tour	]

Preset Tour is a preconfigured PTZ sequence that directs the camera to cycle through multiple preset PTZ views, including where to look and how long to look at each location. You may configure the preset points to go to in the previous Preset section. Make sure you configure PTZ and PTZ Preset sections correctly before setting up Preset Tours

Please select the tour you want to use or choose "Disable" to stop Preset Tour

Touring Control				
Disabled 🗖	-			
Disabled Tour 1	eset Po			
Tour 2	Edit			
Tour 3				

Selet the preset point you want to add in the tour. You may setup how long with the PTZ Speed Dome camera stay at each point by setting the [Dwell Time]. Then, click [Add]

button to add the preset point in this tour

You may rearrange the preset point sequence here. Click the buttons to move to top, move up, move down or move to bottom of list.

You can click 🔄 [Goto] to go to the preset point and click 🔟 [Remove] to remove this preset point in this modified tour

		PTZ			
Preset	Tour				
Touring C Tour 1 Select a F Tour 1 Preset	Preset Point	Cancel	<b>(</b> )	+	
Preset P	oints		C		
02			10	→ ×	
01			10	→ ×	
03			10	→ ×	





## Setup Menu

	Live Setup
In Setup Page, the left side is devoted to the menu.	
	Host
There are many sections in the menu, most of them hidden for ease of	Date & Time
navigation. The fully expanded menu is shown here to the right.	IP Address Filtering
	Port Mapping
	ToS
	UPnP™
	Bonjour
	HTTPS
	IEEE 802.1X
	SNMP Setting
	RTP
	Speed & Duplex
	IP Settings
	Connection Type
	DNS
	DDNS
	Video & Audio
	Stream Mode
	Compression
	Motion Detection
	Image
	Day/Night
	Exposure/White Balance
	Audio
	OSD/Privacy Mask
	🖻 Event
	Event Server
	Event Configuration
	Event List
	Manual Event
	System
	User Account
	System Info
	Factory Default
	Firmware Upload
	Save & Reboot
	Logout

## Host

Click the [Host] to enter Host settings page. Refer to the table below for how to configure each setting.

	Host	
1 Host Name	ACTi	]
2 Language	English 👻	
3 Camera Name	Camera-1	]
		•
4 Apply	Reset	5

	Parameters	Description
•	Host name	Enter a host name, and this host name will be shown when you
U	nostname	use the IP utility or the SDK to search for the IP device.
6	2 Language	Select the language of default user-interface. Each user login will
0		see the default user-interface first.
3	Camera name	The camera name is reserved for customer use.

Click the 4 [Apply] button to confirm the settings or click the 5 [Reset] button to re-enter the parameters.

	Serial Setting ial Port Control 8,None,1 • Port Baud Rate 9600 • 3 Apply 8 Reset	
Parameters	Description	
1 Serial Port Control	Serial Port Control Select the control value of corresponding serial port.	
2 Serial Port Baud Rate	Select the Baud Rate of serial port.	
Click the <sup>3</sup> [Apply] buttor parameters	n to confirm the settings or click the $oldsymbol{\Theta}$ [Reset] button t	





## **Date & Time**

	Date Setting
SNTP/NTP Server	
IP Address	192.168.0.2
Sync Time	1 Day 👻 3
Set Manually	
Date	2010 - / 06 - / 01 - 5
Time	00 - 00 - 6
Time Zone (GMT)+00:00(Dublin,Lisbo	n,London,Reykjavik) 🔻
Day Light Saving	
Start Time:	Туре 1 🔻 ᠑
	Mar 🔻 Second 💌 Sun 👻 02:00 💌 🕕
End Time:	Type 1 🔻 9
End Time:	Type 1 ▼ ④ Oct ▼ First ▼ Sun ▼ 03:00 ▼ ①
End Time:	

Click the [Date & Time] item under Setup to see Date Setting Page. Refer to the table below for how to configure each setting. The default method is to set manually.



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### **Date Setting**

Parameters	Description
	Click this to enable IP device's SNTP/NTP function. This enables this IP
	device to synchronize its time settings with a SNTP/NTP server. You can
	use this function to make sure all your IP devices' time is the same.
<b>1</b> SNTP/NTP	Additionally, with our embedded digital-time-code in the streaming, you
server	can tell the event sequence accurately.
Server	<b>IP address</b> : Enter the IP address of the SNTP/NTP server.
	<b>3</b> Sync time: Select the time interval for this IP device to synchronize
	its time.
4 Set manually	Click this to manually setup the date & time.
_	5 Date : Select the date
	<b>6</b> Time: Select the time
Time zone	Select the time zone offset for local settings
	Select Type 1 🥑 to specify daylight saving time by week number in a
8 Day Light	month; select Type 2 to specify daylight saving time by date.
	Start Time: Select the daylight savings start time.
Saving	End Time: Select the daylight savings end time.

Click the 😢 [Apply] button to confirm the settings or click the 🚯 [Reset] button to re-enter

the parameters.



## **Network Section**

Click the 🔳 [Network] item on the "Setup Page".

## **IP Address Filtering**

**WARNING:** Please be very careful when using this function, as you may lose access to your camera if you make mistakes in setup. You may either accidentally deny yourself access, or forgot to include your own IP address in the allowed address list. You will need to perform hard reset to be able to access the device again.

Click the [IP Address Filter] item to display the "IP Address Filtering Page". Refer to the table below for how to configure each setting.

	dress									
	▼ IP A									
NO.		_	addres		-	_		etmask		Enable
1	0	. 0	_ 0	0	4	0	_ 0	_ 0	0	5
2	0	. 0	_ 0	0		0	_ 0	_ 0	. 0	
3	0	. 0	. 0	0		0	. 0	. 0	. 0	
4	0	. 0	0	.0		0	0	0	.0	
5	0	. 0	0	.0		0	0	0	0	
6	0	. 0	0	.0		0	0	0	0	
7	0	. 0	0	.0		0	0	0	.0	
8	0	. 0	0	.0		0	0	0	0	
9	0	. 0	0	.0		0	0	0	0	
10	0	. 0	0	.0		0	0	0	.0	
11	0	. 0	0	.0		0	0	0	.0	
12	0	. 0	0	.0		0	0	0	0	
13	0	0	0	. 0		0	_ 0	0	. 0	
14	0	. 0	. 0	.0		0	0	0	.0	
15	0	. 0	. 0	.0		0	0	. 0	.0	
16	0	. 0	0	.0		0	0	0	0	

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	Parameters	Description
0	IP address filter enable	Check this box to enable IP Address Filtering.
		The filter can be set in either "Allow" mode or "Block" mode.
0	Filter Method	<ol> <li>"Allow" mode will refuse access to all IP addresses except the ones listed below.</li> </ol>
9	T liter Method	<ol> <li>"Block" mode will accept all incoming access except the IP addresses listed below.</li> </ol>
		Make sure you include the Netmask in your consideration.
8	IP Address	The IP address you wish to allow or block. Please note that the actual
U		range is modified by the Netmask.
		Using Netmask allows you to set filtering for a whole range of IP address
		at once, without the need to enter all of them individually. If you are not
•	Natural	sure about the function of netmask, then you should use
4	Netmask	255.255.255.255, and it will affect only a single IP address per line of
		entry, or use 255.255.255.0 to use the same setting for all IP addresses
		starting with the same three numbers
		For each entry, you must check this box for it to be effective. For an entry
		that you no longer need but does not wish to delete, you can uncheck it,
6	Enable	and the system will remember it for future use. If a new entry that has
		never been used before does not have Enable checked, then it will not be
		stored in memory.
		Click this to use the current displayed info to do IP Address filtering. If you
6	Apply	setup correctly, it will change into a grayed out "Success" in a few
		seconds.
1	Reset	Click this button to re-enter the parameters.

Click the <sup>6</sup> [Apply] button to confirm the settings or click the <sup>7</sup> [Reset] button to re-enter the parameters.



## **Port Mapping**

Click the [Port Mapping] item to display the "Port Mapping Page". Refer to the table below for how to configure each setting.

1 HTTP Port	20
U HITP Port	80
2 Search Server Port1	6005
3 Search Server Port2	6006
4 Control Server Port	6001
Streaming Server Port	6002
6 Multicast Server Port of Media1	5000
RTSP Server Port	7070
RTP Multicast Video Port for Media1	5004
RTP Multicast Audio Port for Media1	5012
Multicast Setting	
Multicast IP	228.5.6.1
	[224.5.0.1~239.255.255.255]
🚺 Multicast TTL	16 [1~255]
IGMP	Disable 👻

Parameters	Description
1 HTTP port	Select the port assigned for HTTP protocol access
O Search conver part1	Select the first port used by server search applications to detect
2 Search server port1	this IP device. (e.g. IP utlity)
A Search conver part?	Select the first port used by server search applications to detect
3 Search server port2	this IP device. (e.g. IP utlity)
	Select the port used to support video control function by
4 Video server port	application programs. (e.g. NVR)

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5 Streaming server port (TCP Only)	Select the port used by this IP device for Video Streaming.
6 Video Multicast Port of media 1	Enable/disable multicast audio streaming
RTSP port	Select the port assigned for RTSP protocol access
RTP Multicast Video	Select the port for the multicast video streaming of media1 via
Port for Media1	RTP protocol
8 RTP Multicast Audio	Select the port for the multicast audio streaming of media1 via
Port for Media1	RTP protocol
10 Multicast IP	Select the multicast IP. Default settings is 228.5.6.1
🚺 Multicast TTL	Select the multicast TTL. Default setting is 255.
1 IGMP	Select video type connected to the video-in of this IP device. If you use an incorrect video type, some images might be lost.

Click the **(3** [Apply] button to confirm the settings or click the **(4** [Reset] button to re-enter the parameters.

## ToS

Click the [ToS] (Type of Service) item to display the "ToS Page". Refer to the table below for how to configure each setting.

Ту	pe of Service
Type of Service	Disabled -
ToS Priority	Normal Service 👻 🕗
3 Apply	4 Reset

Parameters Description		Description
	TOS (type of	Select whether to add the TOS tag onto the streaming data.
1	1003 (type of service)	Streaming data with a higher priority TOS tag will be transmitted
		first when compared with other data.
		Select the TOS tag's priority to be added onto the streaming. You
		can select between
6		1.Minimize-Delay
9	TOS priority	2.Maximize-throughout
		3. Maximize-Reliability
		4.Normal-Service

Click the (3) [Apply] button to confirm the settings or click the (4) [Reset] button to re-enter the parameters.



## UPnP<sup>™</sup>

	UPnP™
1	Enable UPnP™
2 Friendly Name	KCM5111-11A-X-00008
3 Apply	Reset 4

Click the [UPnP<sup>™</sup>] item to display the "UPnP<sup>™</sup> Setting Page".

Click checkbox (1) to enable or disable the UPnP<sup>TM</sup> function. Edit the UPnP Friendly Name in text field. (2)

Click the [Apply] button (3) to confirm the settings or click the [Reset] button (4) to re-enter the parameters.

## Bonjour

	Bonjour
	Enable Bonjour
Friendly Name	KCM5111-10J-X-00001
Apply	Reset

Bonjour is a protocol developed by Apple.Inc. This protocol allows for easy searching of devices on network. You may enable Bonjour and search for this device via its Friendly Name.

## **HTTPS**

HTTPS is to create a secure channel over an insecure network. There are two methods to create, Certificate Signing Request (CSR) and Self-Signed Certificate.

Certificate Signing Request (CSR): User uses a signed certificate issued by trusted

Certification Authority (CA).

Self-Signed Certificate: User wants to use the certificate created and issued by user himself.

	Request (CSR) Management
Common Name	
	Create
ertificate Manag	ement
-	
ertificate Manag Common Name	

Press "Create" or "Create Self-Signed Certificate" button and configure settings in the pop-up screen to install the certificate.

Note that the new setting will only take effect after "Save & Reboot".

## **IEEE 802.1X**

Please enable IEEE 802.1x and configure settings in the screen below. Note that the new setting will only take effect after "Save & Reboot".

Enabled	
Enabled	
EAPOL Version	V1 V1 V2
User Name	
User Password	
CA Certificate	Upload
User Certificate	Upload
User Private Key	Upload
* New settings will only t	ike effect after [Save & Reboot]
	Apply Reset

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## **SNMP Setting**

Click the SNMP Setting item to display the SNMP setting Page

		SNMP S	Setting	
1	Enabled			
2 💿	SNMP V1/V2			
<mark>3</mark> 💿	SNMP V3			
4	Trap Enabled		6	
		Destination IP addre		
		Trap Community	6 public	
		Available Traps	<ul> <li>Cold Start</li> <li>Warm Start</li> <li>Authentication Failure</li> </ul>	
		8 Apply	9 Reset	
-	o enable SNMP fi to use SNMP V	unction. 1/V2 or <b>3</b> to use	SNMP V3	
heck the c	heck box 4	to enable traps		
nter the De	estination IP add	ress in <b>5</b>		
nter the Tra	ap Community u	sed in 🌀		
elect the A	vailable trap in	D		
Click the [Ap		to confirm the settin	ngs or click the [Reset] button $oldsymbol{9}$	to re-ente



## RTP

## Click RTP Item to configure RTP Settings

	RTP
RTSP Authentication	Enabled -
2 RTP B2 Frame	Disabled -
•	
Apply	4 Reset

1	RTSP Authen Enable	Check box to enable RTP streaming's Account/Password authentication.	
2	RTP B2 Frame	Check box to enable the B2 frame in RTP streaming	
Enable Enable			

Click the [Apply] button 3 to confirm the settings or click the [Reset] button 4 to re-enter

the parameters.

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## **Speed & Duplex**

Click the [Speed & Duplex] item in the network section to display the "Speed and Duplex" Page. Refer to the table below for how to configure each setting.

Speed & Duplex		
Network Speed	Auto Detect -	
2 Apply	8 Reset	

Parameters	Description	
Network speed	This item lets you select the network transmission speed. You can select from 1. Auto detect (default setting) 2. 100Mbps / Full duplex 3. 100Mbps / Half duplex 4. 10Mbps / Full duplex 5. 10Mbps / Half duplex	

Click the 2 [Apply] button to confirm the settings or click the 3 [Reset] button to re-enter the

parameters.



## **IP Settings**

## **Connection Type**

Click the [Connection Type] item to display the "Connection Type Page". Refer to the table below for how to configure each setting.

Dynamic IP Address	Use h	nost	name	AC	Ti			
Static IP Address								
4 IP Address	192	].	168		0	].	100	
Subnet Mask	255		255		255		0	
6 Gateway	192	].	168		0	].	254	
PPPoE								
8 User Name								
9 Password								

	Parameters	Description			
		Click this to enable IP device's DHCP function.			
•	Dynamic IP	It will acquire its WAN port IP address from a DHCP server within the			
U	address	same network. (You must have a DHCP server in order to enable this function.)			
9	Use host	Enter the host name to display in utility tools, ex IP Utility.			
0	name				
		Click this to manually enter the IP address.			
	Static IP	IP address: Enter the WAN port IP address.			
3	address	<b>Subnet mask:</b> Enter the subnet mask of WAN port. If IP address			
	auuress	is changed, adjust the subnet mask accordingly.			
		<b>6 ISP gateway</b> : Enter the IP address of the gateway (the router).			

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		Click this when you connect IP device directly to the xDSL modem.
		<b>8</b> User name: Enter the user name of your xDSL account.
0	PPPoE	Password: Enter the password of your xDSL account.
		Note: You have to click the [Save Reboot] after you click the [Apply
		button] to let this IP device start xDSL connections.

Click the **(**[Apply] button to confirm the settings or click the **(**[Reset] button to re-enter the parameters.

## DNS

Click the [DNS] item to display the "DNS Server Settings Page". Refer to the table below for how to configure each setting.

Primary DNS Server	0	. 0	. 0	. 0	]
2 Secondary DNS Server	0	. 0	. 0	. 0	]
		<u> </u>			
3 Apply		4 Re	set		

Parameters		Description	
Primary DNS server		Defines the IP address of the primary DNS server. This is used for	
U	Filliary DNS Server	identifying this computer by name instead of IP address.	
6		The IP address of the secondary DNS server. It will be used once	
9	Secondary DNS server	the primary DNS server fails.	

Click the <sup>3</sup> [Apply] button to confirm the settings or click the <sup>4</sup> [Reset] button to re-enter the parameters.



## DDNS

Click the [DDNS] item to display the "DDNS Server Setting Page". Refer to the table below for how to configure each setting.

	DDNS
1 DDNS Status	Disabled -
As a service / As a protocol reference	members.dyndns.org 🔹
3 Host Name	
4 User NAME	
5 Password	
6 Apply	Reset

Parameters	Description
	Click this to enable IP device's DDNS function.
DDNS type	DDNS function enables user to connect to this IP device by domain name
	even if its IP address is not static.
Protocol /	Click one of the DDNS service providers.
2 Service	You can visit their website to get a DDNS service account for this IP
Reference	device.
Host name	Enter the host name of your DDNS service account. (ex: xxxx.dyndns.org)
4 User name	Enter the user name to login your DDNS service account.
5 Password	Enter the password to login your DDNS service account.

Click the **6** [Apply] button to confirm the settings or click the **7** [Reset] button to re-enter the parameters.



## Video & Audio

Click the I [Video & Audio] item on the "Setup Page". Please note that some elements may not appear on all models.

## **Stream Mode**

This section determines how many streams are available from this device. There are three modes: Single, Dual or 4 Stream. **"4 Stream" mode is available only to 4 Megapixel models**.



In single stream mode, resolutions available include 4 Megapixel 2032 x 1920 (for some models), Full HD 1920 x 1080, HD720 1280 x 720 and VGA 640 x 480.

In 4 Stream mode, there is a Standard View and a Positioning View. This image below shows the Standard View. This display shows where each crop window located is but does not allow you to change move it. To reposition the crop windows, click "Setup".



#### 4 Stream Mode – Standard View



In Standard View you can see where the window for each channel is located. To edit cropping location, click "Setup".

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#### 4 Stream Mode – 4 VGA Window Positioning View

In 4 VGA Window Positioning View, you may position each window to where you desire to view. The current view is the 4M view area to allow you the most flexibility in positioning. Click and drag the top bar of each window to activate it and drag to place. The currently active window is highlighted in yellow, while the other windows are shown in red.





## **Camera Options**

This item is available on hemispheric camera only.

This section determines how many streams are available from this device. There are five modes: Single, Dual, ePTZ, 6 Stream and MD Preset.



### **Single Mode**

In single stream mode, there are two options you can choose depend on your device's mounting type- Ceiling / Wall. In Single Mode, resolutions available include Full HD 1920 x 1080 and HD720 1280 x 720.

In **Ceiling Mount**, you can see the double panorama view in pre-view windows. You can adjust the viewing angle via typing the rotation degrees.

Mounting Type	Ceiling 👻
Rotation Degrees per Click	1 <b>O O</b>
Stream Mode	Single -

In **Wall Mount**, you can see the panorama view in pre-view windows. Adjust the "Physical Installation Angle" will do proper dewarping based on the newly defined center of the view.



Туре	Description	Physical Installation Angle
	Not using the 10° Hemispheric Camera Wall Mount	0 degree
	With 10° Hemispheric Camera Wall Mount	10 degree

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#### ePTZ Mode

ePTZ mode of Hemispheric Camera works in similar way as optical PTZ function in Speed Domes. As the camera receives commands from remote client, it changes the direction of the view or zooms in or out digitally. The stream coming out from the camera represents current viewing direction of the camera, not the panoramic view.

The resolutions are available include 4M 2032 x 1920, Full HD 1920 x 1080, HD720 1280 x 720 and 640 x 480.



Preset

Apply Remove PTZ Vendor/Protocol ACTI/ACTI 
Zoom Control

Stepped Zooming

Rotation Degrees per Click

Name

Step Size

Rotation

Preset

1

2

3

4

5

6

Save current position as home position

100

 $\odot$   $\odot$ 

1

🐵 🔿 🖬

2

2

2

2

2

2

00

this screen is available by clicking on PTZ button in the **live view screen**. Mouse PTZ is enabled at the same time.

You can configure up to 32 Zoom presets below. Just click Set, enter the name and move position to what you desire, then click set again. You can instantly ask the camera to go to that zoom and focus position by clicking on the Goto button.

Click Delete to remove this zoom preset point from camera memory.

You can use ePTZ in live view by moving the mouse

over video and clicking on the video anywhere you like. Wherever you click, that point will become

new "center" of the view. This is how you "pan" and "tilt". You also can rotate the view via PTZ panel if you like.

To zoom in or out under ePTZ mode, use the scroll wheel of the mouse



#### **Preset Tour**

After you set the Preset Point, the Tour function will be enabled. Please refer Preset Tour,

#### 6 Stream Mode

6 Stream mode is very similar to multi-channel video encoder can act as 6 different VGA cameras, each pointing in different direction

One of the benefits of 6 stream mode is to focus only on regions that are important and discard the rest of them. It can help save bandwidth and storage space.

1: 2011-12

Please use the on-video controls (Mouse PTZ) to shift the VGA region to the desired location.	e	
	Mounting Type Ceiling 👻	
You also can rotate the view if you like	Rotation Degrees per Click 1 🛛 🔕 🥝	
	Stream Mode 6 Streams 👻	
To setup other stream, please select in "Stream ID" list	Stream ID 1 👻	

### **MD Preset Mode**

Using MD preset mode, please set preset points in live view page first.

#### 1. Live View $\rightarrow$ PTZ $\rightarrow$ Preset

Please use the live view on-video controls (Mouse PTZ) to shift the region to the desired location for each preset point.

Preset				
No.	Name	ŵ	-	<b>İ</b>
1		2		
2		2		
3		2		
4		2		
5		2		
6		2		
7		2		

### 2. Setup → Video & Audio → Motion Detection

Set up the detail setting of motion detection.





#### 3. Motion Detection Setup

Press Setup to edit the settings. There are set six regions on ceiling mounting type and three regions on wall mounting type.

Region	Enabled	Sensitivity	Trigger Interval [s]	Trigger Threshold	6 Priority	Preset
1		70 👻	1 💌	10 🔻 %	4 👻	01 💌
2		70 🗸	1 🔻	10 🔻 %	5 🗸	01
3		70 🔻	1 -	10 - %	6 🗸	03

**STEP1:** Click the **(1)** checkbox to enable motion detection for different preset point region.

STEP2: Choose the 🙆 preset point you want to use.

**STEP3:** Set the **3** sensitivity of motion detection region.

**STEP4**: Set the **4** interval time of motion detection. After a motion event is triggered, no more events will be triggered within this time in the same region

**STEP5:** Set the **(5)** trigger threshold of motion detection region. The larger this value, the larger the object size needed to trigger motion detection.

**STEP6**: Set the **()** priority of these preset point to trigger the motion detection. The higher number is the higher priority,

Click the **(**[Apply] button to confirm the settings or click the **(**[Reset] button to re-enter the parameters.



# Compression

Single Stream Mode:

Encoder Type	H.264 👻
2 Resolution	N1280x720 -
3 Frame Rate	8 🔻
4 Video Bit Rate Mode	Constant Bit Rate 🔻
Video Max Bit Rate	UNLIMITED -
Video Bit Rate	ЗМ 👻

	Parameters	Description
•	Encoder Trino	Select the encoder's compression type.
0	Encoder Type	MPEG-4 / MJPEG / H.264
6	Decolution	Select the video resolution of the camera between 4M (2032 x 1920),
2	Resolution	2M 1080p (1920 x 1080), 1M 720p (1280 x 720) and VGA (640 x 480)
3	Frame rate	Select the available frame rate from the drop down menu.
		Constant Bit Rate: The bit rate remains constant at all conditions,
		Video quality will be better when image is still. Large amount of motion
4	Video Bit Rate	or complex scene will degrade quality slightly.
	Mode	Variable Bit Rate: The video bit rate will vary based upon scene
		complexity and amount of movement. The quality will remain the same.
6	Quality (Variable Bit Rate Only)	When encoder type is MPEG4 or H.264, and video bitrate mode is "Variable Bit Rate" Select the quality value from High / Middle / Low
6	GOP Length (Variable Bit Rate Only)	When encoder type is MPEG4 or H.264. and video bitrate mode is "Variable Bit Rate". Select the Interval between two I-frames. This is also called GOP Length. (Group of Picture). Default value is one I frame per second. The maximum length of GOP is limited to 60.
9	Video Max Bitrate (Constant Bitrate only)	This puts a hard cap on the maximum bit rate allowed in any given second of video streaming. Assigning a limited bit rate may result in a few dropped frames rate when the stream data overflows the allowed bit rate. Doing so will also disable Bit Rate setting below.
10	Video Bitrate (Constant Bitrate only)	This is the target bitrate that the camera will attempt to provide when using Constant Bitrate mode. The actual value will fluctuate slightly based on scene changes.

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Encoder Type	H.264 👻
2 Resolution	N640x480 -
3 Frame Rate	8 🔻
<b>4</b> Video Bit Rate Mode	Variable Bit Rate 👻
5 Quality	Middle 👻
6 GOP 1 I-frame /	Second 👻
Encoder Type	H.264 🔻
Recolution	N640x480 -
Resolution	N640x480 -
🚺 Frame Rate	
-	30 -
Frame Rate 8 Video Bit Rate Mode	30 ▼ Constant Bit Rate ▼
Frame Rate 8 Video Bit Rate Mode 9 Video Max Bit Rate	30 ▼ Constant Bit Rate ▼ UNLIMITED ▼

	Parameters	Description
•	Epocdor Typo	Select the encoder's compression type.
•	Encoder Type	MPEG-4 / MJPEG / H.264
9	Resolution	Select the video resolution of the camera between 4M (2032 x 1920),
0	Resolution	2M 1080p (1920 x 1080), 1M 720p (1280 x 720) and VGA (640 x 480)
3	Frame rate	Select the available frame rate from the drop down menu.
		Constant Bit Rate: The bit rate remains constant at all conditions,
	Video Bit Rate	Video quality will be better when image is still. Large amount of motion
4	Mode	or complex scene will degrade quality slightly.
	Mode	Variable Bit Rate: The video bit rate will vary based upon scene
		complexity and amount of movement. The quality will remain the same.
6	Quality	When encoder type is MPEG4 or H.264, and video bitrate mode is
Ð	Quality	"Variable Bit Rate" Select the quality value from High / Middle / Low
		When encoder type is MPEG4 or H.264. and video bitrate mode is
6	GOP Length	"Variable Bit Rate". Select the Interval between two I-frames. This is also
•	GOF Length	called GOP Length. (Group of Picture) . Default value is one I frame per
		second. The maximum length of GOP is limited to 60.
0	Frame rate	Select the available frame rate from the drop down menu.

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		Constant Bit Rate: The bit rate remains constant at all conditions,
	Video Bit Rate	Video quality will be better when image is still. Large amount of motion
8	Mode	or complex scene will degrade quality slightly.
		Variable Bit Rate: The video bit rate will vary based upon scene
		complexity and amount of movement. The quality will remain the same.
		This puts a hard cap on the maximum bit rate allowed in any given
•	Video Max	second of video streaming. Assigning a limited bit rate may result in a
9	Bitrate	few dropped frames rate when the stream data overflows the allowed
		bit rate. Doing so will also disable Bit Rate setting below.
		This is the target bitrate that the camera will attempt to provide when
Ð	Video Bitrate	using Constant Bitrate mode. The actual value will fluctuate slightly
		based on scene changes.

Click the 10 [Apply] button to confirm the settings or click the 12 [Reset] button to re-enter the

parameters.



#### 4 Stream Mode:

Configuring compression settings in 4 stream mode is basically the same as configuring compression settings in other modes. The setting is the same across all 4 channels, but you may switch view of the individual channels by selecting the channel on top.



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# **Motion Detection**

-	07-02-11 20:32			
Adjust	st Column t Column Adjust Squar Adjust Square			Activity
✓ Motio	n Enable <sup>3</sup>	6	<u> </u>	and the second second second
Motio Region	n Enable <sup>3</sup> Motion Enable	5 Sensitivity	6 Trigger Interval	Ũ
		and the second se		Trigger Threshold
Region	Motion Enable	Sensitivity	Trigger Interval	7 Trigger Threshold
Region 1	Motion Enable	Sensitivity	Trigger Interval	Trigger Threshold

Click the **(b)** [Motion Setup] button to edit the settings. Before clicking Motion Setup, you will be in passive observer mode. You will see activity status and whether each motion window has motion activity, but will not be able to change settings.

Region	Motion Enable	Sensitivity	Trigger Interval	Trigger Threshold
1		70 👻	1 🔻	10 🔻 %
2		70 👻	1 🔻	10 🔻 %
3		70 👻	1 🔻	10 🔻 %
		Apply	Cancel	
		Apply	Cancel	
		Apply	Cancel	

### Motion Setup mode

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#### Video Motion Detection:

**STEP1:** Click the Plus sign **3** to expand the Motion Detection settings then Click the Motion Enable checkbox to enable motion detection.

**STEP2:** Click the **4** checkbox to enable motion detection for each individual region.

**STEP3:** Click one region to start to edit its size and location. You can click the "Adjust Column" to drag motion region to your desired location. You can click the "Adjust Square" and drag to adjust motion region size. You can click the upper right button to cancel this motion region. Repeat above procedure to adjust the motion region.

**STEP4**: Set the **6** sensitivity of motion detection region.

**STEP5:** Set the **(i**) interval time of motion detection. After a motion event is triggered, no more events will be triggered within this time in the same region

**STEP6**: Set the **1** trigger threshold of motion detection region. The larger this value, the larger the object size needed to trigger motion detection.

**STEP7**: In motion activity **2** window, the bar shows the motion activity status. You can also see the trigger threshold (Red line). When the motion activity exceeds the trigger threshold, the bar would become red to indicate that a motion event has been triggered.

While viewing the motion activity window, you can adjust the motion sensitivity (the higher, the easier camera considers video change to be an activity) and the threshold (the higher, the larger the activity needed to trigger a motion event). If the default settings are not satisfactory for your scene, you may try our alternative recommendations of:

Sensitivity: 80, Threshold: 2~5 (for normal environment) Sensitivity: 80, Threshold: 5~10 (for very noisy environment)

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### Image

This section concerns the general video settings.



KCM-5111/KCM-5211/KCM-5311/KCM-7111/KCM-7211/KCM-3211 Models

- 1. Video Flipping: Check this box to flip the video up-down
- 2. Video Mirror: Check this box to mirror the video left-right
- 3. Brightness: Select the Brightness value. The higher the value, the brighter the image.
- 4. Contrast: Select the Contrast value. The higher the value, the sharper the contrast.
- 5. **Digital Noise Reduction:** Select ON or OFF to enable or disable this function. Enable this for smooth and clear image. Disable this if your scene contains many extreme details that may be smoothed over with DNR.
- 6. **Restore image settings to default:** When press this button, it will use the default image settings.

Click the [Apply] button to confirm the settings or click the [Reset] button to re-enter the parameters.

#### KCM-5211E/KCM-5311E Models

and the second	Image
1: 2009-02-24 05:40:08	
E C S C S C C S C C S C C S C C S C S C	Video Flipping         Video Mirroring         rightness       50 ◆         contrast       20 ◆         aturation       50 ◆         ingital Noise Reduction       2 ◆         D Noise Reduction       2 ◆         dge Enhancement       104 ◆         xDR Target Level       64 ◆         vefogging       2 ◆         Restore image settings to default

- 1. Video Flipping: Check this box to flip the video up-down
- 2. Video Mirror: Check this box to mirror the video left-right
- 3. Brightness: Select the Brightness value. The higher the value, the brighter the image.
- 4. Contrast: Select the Contrast value. The higher the value, the sharper the contrast.
- 5. **Saturation:** Select the saturation value. The higher the value, the more saturated the image.
- 6. **Digital Noise Reduction:** Select the DNR value. The higher the value, the smoother and clearer the image.
- 3D Noise Reduction: Select ON or OFF to enable or disable this function. Enable this for smooth and clear image. Disable this if your scene contains many extreme details that may be smoothed over with 3DNR.
- 8. **Edge Enhancement:** Select the Edge Enhancement value. The higher the value, the sharper the image.
- ExDR: Select the ExDR value. The higher the value, the great enhancement of the image in the brightest and darkest area. This provides for more evenly illuminated image and brings out greater detail to the eye.
- 10. Defog Control: Select the Defog Control value. The higher the value, the clearer of image in



foggy situation. If you want to disable this function, please choose value 0.

11. **Restore image settings to default:** When press this button, it will use the default image settings.

Click the [Apply] button to confirm the settings or click the [Reset] button to re-enter the parameters.



1: 2011-12-15 15:54	Image
	Brightness 50 🔻
	Contrast 20 -
	Saturation 50 🔻
	Saturation 50 - Digital Noise Reduction 2 -
	Digital Noise Reduction 2 -
	Digital Noise Reduction 2 - 3D Noise Reduction ON -
	Digital Noise Reduction 2 - 3D Noise Reduction ON - Edge Enhancement 104 -
	Digital Noise Reduction 2 - 3D Noise Reduction ON - Edge Enhancement 104 - ExDR Target Level 64 -
	Digital Noise Reduction 2 - 3D Noise Reduction ON - Edge Enhancement 104 -

#### KCM-3911 Models

- 1. Brightness: Select the Brightness value. The higher the value, the brighter the image.
- 2. Contrast: Select the Contrast value. The higher the value, the sharper the contrast.
- 3. Saturation: Select the saturation value. The higher the value, the more saturated the image.
- 4. **Digital Noise Reduction:** Select the DNR value. The higher the value, the smoother and clearer the image.
- 3D Noise Reduction: Select ON or OFF to enable or disable this function. Enable this for smooth and clear image. Disable this if your scene contains many extreme details that may be smoothed over with 3DNR.
- 6. **Edge Enhancement:** Select the Edge Enhancement value. The higher the value, the sharper the image.
- 7. **ExDR:** Select the ExDR value. The higher the value, the great enhancement of the image in the brightest and darkest area. This provides for more evenly illuminated image and brings out greater detail to the eye.
- 8. Defog Control: Select the Defog Control value. The higher the value, the clearer of image in



foggy situation. If you want to disable this function, please choose value 0.

9. **Restore image settings to default:** When press this button, it will use the default image settings

Click the [Apply] button to confirm the settings or click the [Reset] button to re-enter the parameters.





# Day / Night

This section concerns the day and night switch timing for your camera.

Day/Night Mode Day to Night Thresl	_	• 67 •	<b>-</b>
Apply	Re	eset	

- 1. **Day / Night Mode:** The camera will change between day and night modes by default. You may command camera to stay in day or night mode here, or allow it to change automatically.
- 2. **Day to Night Threshold:** This value controls the level of light where camera switches into night mode. Increasing it will make camera switch to night mode at a darker illumination level.

Click the [Apply] button to confirm the settings or click the [Reset] button to re-enter the parameters.



## Exposure / White balance

Configure Exposure and White Balance and Digital Noise Reduction for best image quality here. Some options will only appear under certain exposure / White balance modes. We will describe each in detail below.

#### **Exposure Mode - Auto**

Exposure Mode	AUTO -
White Balance	AUTO - Hold
AE Reference target	128 🔻
Slowest Auto Shutter	1/15 👻
Line Frequency	60Hz 👻
P-IRIS	Disable -
Apply	Reset

In Auto Exposure Mode, you control the image brightness by configuring the AE Reference Target and Slowest Auto Shutter.

**AE Reference Target** means the Auto Exposure reference target, which can be considered as the "Target Brightness on Sensor". The camera will use several internal parameters to achieve best quality with reference to this. **The higher this value, the brighter the overall scene, and the more noise at night.** 

Slowest Auto Shutter means the longest allowed exposure time for each frame. In extreme low light conditions, the exposure time is automatically increased to get more light into one image. If it extends beyond the interval between frames, (i.e. 1/30 second), then the frame rate will be automatically reduced. Longer time in this value gives clearer images at night for slow moving objects, but more motion blur for fast moving objects.

White balance weights the proportion of color in scene and recreates the most realistic color. Usually this function is performed seamlessly in the background in auto mode. In some cases you may want to fix the color proortions of your view. Wait until you like the color on screen. You can hold a piece of white paper in front of camera for reference, then wait until you like the current value to click on the "Hold" button to the right. This will lock the current value and enter the manual white balance mode.

**Before Hold** 



White Balance AUTO - Hold

### **Entering Manual mode with Hold White Balance**

White Balance	MANUAL	✓ Hold
R Gain	71	[1~255]
B Gain	142	[1~255]

**Line Frequency** is the power supply frequency. Select the right frequency to avoid image flickering.

### P-IRIS (For Support P-Iris Lens Model)



Enable P-IRIS function using P-Iris Lens. Otherwise, please disable it.

### Exposure Mode – Shutter Priority

Exposure Mode White Balance	SHUTTER_PRIORITY -
AE Reference target	128 -
Shutter Speed Line Frequency	1/30 60Hz
Apply	Reset

In Shutter Priority Mode, the shutter speed is locked at the user defined value. Camera will compensate for different brightness with Iris size or signal enhancements. This is useful when the target moves very fast and has to be viewed with short exposure shutter time.



### Exposure Mode – Iris Priority

Exposure Mode White Balance	IRIS_PRIORITY       AUTO       Hold
AE Reference target	128 🔻
F-Number of IRIS Control	F2.8 -
Line Frequency	60Hz ▼
Apply	Reset

In Iris Priority Mode, Iris size is fixed to ensure sufficient depth of view. Camera varies exposure time shutter to compensate for brightenss change.

### Exposure Mode - Manual

Exposure Mode White Balance	MANUAL  AUTO  Hold
Exposure Gain	40 🔻
Shutter Speed	1/30 👻
F-Number of IRIS Control	F2.8 🔻
Line Frequency	60Hz 👻
Apply	Reset

In Manual Exposure mode, you may configure the shutter speed and exposure image gain yourself for optimum performance.

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# Audio

	Audio
Audio In Audio Out Volume Audio Format	Disabled 84 PCM
Apply	Reset

Audio In - Enable or disable Audio In via the check box.

Audio Out Volume – Control the output volume of Audio Out here.

Audio Format – Select the audio's compression type, PCM / G.711A / G.711U.

Click the [Apply] button to confirm the settings or click the [Reset] button to re-enter the parameters.



## **OSD/Privacy Mask**

OSD (On Screen Display) and Privacy masks are configured in this section. There are four regions available. Each may be used either as a Privacy mask or an OSD text.

Privacy Mask is not available in Dual Stream mode. Please disable Stream 2 if you wish to use Privacy mask / OSD.

	and the second	OSD D-04-28 1 Epzden van	/Privacy Mask		
-	Region 1	Enable	🛛 📝 Туре	Privacy Mask	-
	Ĩ	Color Black	<b>3</b> ∎ •	Setup 4	
+	Region 2	Enable	<b>У</b> Туре	Privacy Mask	•
	Region 3	Enable	<b>У</b> Туре	OSD OSD	-
	5 Color Red	•	Transparent	7 Position Top -	
	8 String 9 Forma	[^A	\~Z <sup>'</sup> , '0~9' , '/ , '.' U%YYYYY%MM%	, '', max:16 char.] DD%N C Format Notice	>
	1				114

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	Parameters	Description
1	Enable	Check this box to enable each OSD / Privacy mask region
2	OSD / Privacy	Each region can be in one of two types. OSD (On Screen Display) or
9	mask	Privacy mask
0	Color (Privacy	This determines the color of the Privacy Mask Area. You may choose
3	mask)	between Black, Green, Red and Blue.
		Click this checkbox to enable Privacy mask area setup. Click and drag
	Setup	the adjust square at the lower right to change dimensions, click and
•	Setup	drag the adjust column at the top to move. (Similar to Motion Detection
	_	Region)
6	Color(OSD)	This determines the color of the OSD Text. You may choose between
2		Black, Green, Red and Blue.
		This number determines the level of transparency for this OSD Text. 1
6	Transparent	means that the background between the texts will not be visible, while
		100 means the background will show through the OSD text.
0	Position	Select the location where the text will appear in the image.
8	String	This is where you enter the user defined string (%U) as described in the
•	String	next section. Total length cannot be more than 63 characters
		This controls what is shown in the OSD text. You can click the Format
9	Format	Notice to the corner for a full list of available parameters. The OSD text
		is primarily based upon this field.
0	Format Notice	Click here to see the syntax list of how to configure the OSD text.

Click the (Apply] button to confirm the settings or click the (Reset] button to re-enter the parameters.



# **Event**

This section describes how to setup the Event Handler, which deals with how the IP devices respond to situations. Each IP device can have a maximum of 10 Event Rules. Each rule includes one single trigger, and one or many responses. Several types of responses are available. And there are multiple external servers for the device to interact with.

When setting up Event Handler, there are four types of settings. Event Server, Event Configuration, Event Rules and Manual Event

Click the 🔳 [Event] item on the "Setup Page".



# **Event Server**

**Event servers** define whom the device may interact with. They can be other servers or devices on the network, or even the camera itself. **Event Configuration** sets up a list of what to tell the other party during interaction. Event list lays down the rules and conditions about when to initiate which responses from which triggers. *The options available for Event rules are selected from the event servers and event configurations.* 

**Event Server** Network Address Туре Ports User Name FTP Server Configuration 21 none none SMTP Server Configuration none none none HTTP Server 1 Configuration none none HTTP Server 2 Configuration 80 none none

Event servers are classified as FTP servers, SMTP servers and HTTP servers

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#### **FTP Server**

**FTP servers** can receive snapshot or video uploads that are issued as part of the response from event handlers. You may setup one FTP server.

Network Address	
2 Network Port	21
3 User Name	
4 User Password	
5 Mode	Passive -
6 Max. Connection Time	10 • sec. (0~60 sec)
Apply	Reset 🔞

To setup FTP servers, make sure to enter Uthe network address, defined the Network (FTP) port, the User Name, defined Password, Connection mode (Passive or Active) and Connection time before timeout(in milliseconds). Click (Apply] to use these settings or click (Reset] to clear changes.

#### **SMTP Server**

**SMTP** servers can send email upon request from the IP device. The email can be a simple subject and text email, or attached with snapshot / video. You may setup two SMTP servers. The device will first attempt to send the message via the Primary email SMTP server. If the first attempt fails(after the Max connecting time), then the device will attempt to send via the secondary SMTP server. If the device sends email successfully via the primary SMTP server, then it will not use the secondary SMTP server.



	rver Configuration
Primary SMTP Configurations	
Enabled	
Authentication Type	Login 👻
\delta User Name	Event@test.com
User Password	•••••
Sender Email Address	EventHandler@test.com
6 Network Address	smtp.test.com
Network Port	25
8 Max. Connection Time	10 - sec. (0~300 sec)
Secondary SMTP Configurations 🔳	
Apply	🕡 Reset
tup SMTP servers, make sure to 🕻	enable the SMTP account and 2 choo
r Authentication type. There are many o use Auto Detection. Available auther	
o use Auto Detection. Available auther	types available. The default is Login. We recon ntication types include: Auto Detection, None, Relay. Please also enter <sup>3</sup> the User Nam
use Auto Detection. Available auther Cram MD5, Digest MD5 and PoP	ntication types include: Auto Detection, None,

Connection time before timeout (in seconds). Click 9[Apply] to use these settings or click

[Reset] to clear changes.



#### **HTTP Server**

**HTTP CGI servers** are programs that run on web sites or many devices. They can be custom programmed to perform a large variety of actions based upon the input. You can define which CGI server to connect to here, and the user / password required to log into the target server. The actual message / command is setup in the Notification messages / URL commands section. You may define two separate CGI servers.

IP devices are also CGI servers. This means that IP devices can now issue commands to each other, which creates endless possibilities for highly coordinated response. The IP device can also give a loopback command to itself, in effect changing almost all possible settings dynamically. For detail on the commands used to control the cameras, please contact your customer representative.

An example will help you gain a better sense of how to utilize this unique function. Camera A is a fixed camera that looks at a corridor leading to the main hall. It has a motion detection window located near the point where the corridor arrives at the large hall. Camera B is a PTZ camera located in the hall, which is usually left on auto-tour patrol. When motion activity in the motion detection region triggers MD1 in Camera A, this then in turn activates an event rule in Camera A that gives out a command to Camera B. Camera B would then swivel to the preset point where the corridor leads into the entrance and switch to higher bit rate to temporarily provide clearer image. After the event ends, Camera B will go back to its normal routine in lower bit rate.

1 Enabled	
2 User Name	
3 User Password	
4 Network Address	
6 Network Port	80
Max. Connection Time	10 ▼ sec. (0~60 sec)

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# **Event Configuration**

**Event configurations** are the responses to be performed when an event is triggered. For most types of responses, you can create several different preset responses, then mix and match in event rules. Some responses are not supported in all IP devices (e.g.: DO, PTZ). Event Motion Detection profile is also a triggerable response, but the parameters are defined through the Video Adjust page, not in Event page.

The configurable responses are classified as Digital I/O ports, Notification messages, Upload Image / Snapshot, Send URL Commands and go to PTZ Presets.

Event	Configurator
Digital I/O ports Edit	
Notification message Ed	lit
Upload video/snapshot and Auc	lio Edit
Send URL commands	īdit

### **Digital I/O ports**

**Digital I/O ports (selected models only)** read and control the voltage difference in the circuit, and respond to it. They are useful in connecting to a wide variety of devices. D/l is a trigger, while D/O is a response. Both are setup here. Both have a low voltage state and a high voltage state, noted as 0 and 1.



#### Trigger Interval: How does it work?

When a motion is detected or the device receives a DI trigger, usually users want the camera to stay on high alert for a minimum duration of time before returning to normal mode. This duration is controlled by setting the **trigger interval** value. During this time, the device will NOT respond to a second trigger. The device will stay in the triggered state for as long as the trigger continues to be effective. So the Trigger interval only limits the minimum amount of time the device will spend in the triggered state. Below are sample diagrams on trigger-response mechanism.





**DI**: To setup DI, please define the **O**Active level as 0 or 1. If the active level is set as 1, then camera will consider high voltage difference a trigger, which can be used to initiate other events.

The event will end when the DI voltage goes back to 0. Unterval determines the minimum delay that must pass before the IP device will accept another trigger from DI ( in seconds). 0 means there is no minimum delay limit.

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**DO**: To setup DI, please define the SActive level as 0 or 1. If the active level is set as 1, then camera will change the output voltage to high when this response is activated by an event rule.

The voltage will go back to low when the event ends. Interval determines the minimum duration of each DO response( in seconds). DO will remain at the active level during this time, and if another event triggers DO before the end of the first DO, the second trigger will no take effect. 0 means there is no minimum duration.

#### **Notification message**

\*Pre-requisites: **SMTP server / HTTP CGI server setup.** 

**Notification messages** may be sent to either an email or a HTTP CGI server. If sent to a CGI server, it works the same as an URL command, but it does not allow a second message at end of event. You may configure up to three preset massages. You can configure a message, but disable it. This will allow you to keep the settings without using it, which will be useful in testing and troubleshooting.



	No	tification messages	
	Enabled 1 🗹 🛈		
	Send message to	HTTP CGI 1 🔻 Test	
	3 CGI Path & Program *	/cgi-bin/cmd/encoder	
		including path of CGI program	
	4 URL Command	PTZ_PRESET_GO=1	
	(5) Message *	Look at Front Door	
	Enabled 2 🗹 🌀		
	Send message to	E-MAIL Test	
	8 E-Mail Recipients *	supervisor@test.com	
		using "," for multiple addresses	
	Subject *	Entrance Detected	
	🚺 Message 🔺	nes through the front door	
	Enabled 3		
	* : Fields must be filled in		
	Apply	2 Reset	
	Арру	Reset	
	Notification Messages, make su essage to send (HTTP CGI or e	ure to <b>1</b> enable the message, th mail).	en <b>Ø</b> determine what
f vou are :	sending to CGI server, you nee	d to enter the CGI path <sup>3</sup> , the UF	RL command itself
,		,	,
and an op	tional message 6		
	0	0	0
f you are	sending email <sup>10</sup> , please ente	r the recipient E-Mail address $^{oldsymbol{0}}$	, the email subject ${f e}$ ,
			Ð
nd the b	ody message <sup>W</sup> . Click 🖤 [A	oply] to use these settings or clic	k 🕊 [Reset] to clear
hanges.			
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#### **Upload Video/snapshot**

\*Pre-requisites: SMTP server / FTP server / HTTP CGI server setup.

IP devices may send video recording / snapshots to your chosen server upon event. Video will be in .RAW format, while snapshots will be .JPG files. You can define up to three group of settings to upload video/snapshot. Snapshots can be sent to FTP / HTTP CGI and via Email, while video can only be uploaded to FTP or HTTP CGI servers. If Audio in is enabled in device, the uploaded video will include audio.

The parameters needed to setup this function are different for each task combination (snapshot / ftp or video / HTTP... etc), and are explained below:

						UI
	Enable					Enable Message 1
Upload Media Type	Sn	apsh	ot	Vic	leo	Upload Media Type 💿 Snapshot 🔘 Video 🛛 Test
Upload Media to	Email	FTP	CGI	FTP	CGI	Upload Media To E-MAIL 👻
Upload Period	Y	Υ	Y	Y	Υ	Upload Period 0 (0~86400 seconds)
Image during	Y	Y	Y			Images during Upload Period 0 (Use 0 for maximum number of
Upload Period	T	T	I			images)
Pre-Buffer Time				Y	Y	Pre-Buffer Time 0 🗸 (0~3 seconds)
Image File Name	Y	Y	Y	Y	Y	Image File Name Front_Door_%YYYY_%MM_%DD naming rule
Upload Path	*	Y	Y	Y	Y	Upload Path /Event_Snapshot naming rule
CGI Path & Program			Y		Y	CGI Path & Program
E-Mail Recipients	Y					E-Mail Recipients using ',' for multiple addresses
Subject	Y					Subject Front Door Snapshot
Video Source	Y	Y	Y	Y	Y	Video Source 1 -

**Enable Video/snapshot checkbox**: this decides if this rule is in effect, or disabled. Sometimes it is useful to keep the settings, but not to enable it for troubleshooting purposes.

Upload Media to: these define the task at hand, and change the field that needs to be filled out.

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**Upload Period**: IP device will provide video/snapshots for the number of seconds here. It will stop uploading video/snapshot at the end of this period. If you have video management software recording from this camera at the same time, the normal recording through NVR will not be affected, and goes on through out the event period and afterwards. But the special upload session will end as the event ends.

**Image during Upload Period:** This is used only by snapshots. This tells the camera how many snapshots it should attempt to capture during the Upload Time. If this value is set to 0, then the IP device will attempt to capture as many snapshots as possible. Depending upon the device loading, the number of snapshots taken may not reach the number you specified.

**Pre-Buffer Time**: This is only used by video. If this is set to more than 0, then the IP device will start to buffer video in its internal memory. The maximum pre buffer is 3 seconds. When an event requires video upload, the IP device will first upload the video taken right before the event then keep uploading until it reaches the upload time.

Image File Name/ Upload Path: You will need to specify rule for file names and upload paths (upload path is not needed for Email. Just put a slash "/" in the field). The rules contain flexible parameters. A sample rule and corresponding filename will look like this: Front\_Door\_%YYYY\_%MM\_%DD@%hh%mm%ss Front\_Door\_2009\_10\_12@195037.JPG

Upload Path folders may also be named dynamically. For the IP device to create folders on FTP and HTTP CGI servers properly, your FTP/CGI account will need to have permission to create folders. For syntax on auto naming, please see online help or the inset box at the end of this section.

The symbol "%" cannot be the first character in filename or upload path. Please use either an alphabet or a number as the starting character. For Upload Path, be sure to start and end eith a backslash"\". An example will be : \Backgate%MM%DD\

**CGI path & Program**: Some CGI servers may require special info and settings. Please refer to CGI server designer for this section. IP devices do not allow upload of Snapshots / Video into their embedded CGI servers.

**E-Mail Recipient / Subject**: When uploading video/ snapshots via email, these information are required.



Video Source: Choosing the video source from video 1 or video 2.

#### Auto Naming Rules for Files and Folders:

To properly track images and videos, a well thought out naming rule is necessary. There are a number of automatic variables available to design a proper naming system, which may be used both on files and folders.

Symbol	Description	Example
%YYYY	4 digits for year	2009 for year 2009
%YY	the last 2 digits of 4 digits year	09 for year 2009
%MM	two digits for month. 01~12	01 for January
%DD	two digits for date. 01~31	01 for the 1st day of a month
%hh	two digits for hour. 00~23	
%mm	two digits for minute. 00~59	
%ss	two digits for second. 00~59	
%W	a space character. ' '	11
%N	camera name	camera-1
%Ү	File serial counter. It starts from 1 in every uploading task. The counter will be increased by 1 for next uploading file.	1,2,3,4,5,

### Send URL commands

\*Pre-requisites: HTTP CGI server setup.



Send Command 1 to HTTP CGI 1	Test
Command as event is triggered	/cgi-bin/cmd/encoder?PTZ_PRESET_GO=1
	including path of CGI program [max. 119 characters]
Command as event becomes inactive	/cgi-bin/cmd/encoder?PTZ_PRESET_GO=2
	including path of CGI program [max. 119 characters]
Command as event is triggered	in/cmd/encoder?VIDEO_BITRATE=3M&VIDEO_
Send Command 2 to HTTP CGI1	Test
	including path of CGI program [max. 119
	characters]
Command as event becomes inactive	cgi-bin/cmd/encoder?VIDEO_BITRATE=750K&
Command as event becomes inactive	cgi-bin/cmd/encoder?VIDEO_BITRATE=750K& including path of CGI program [max. 119 characters]

URL commands can be sent to HTTP CGI servers upon event. This provides the possibility of highly intelligent response upon event. IP devices and many other devices also have embedded CGI servers that may be controlled.

When Event Handler sends an URL command, it will send one set of command when the event is trigged, and another as the event becomes inactive. Depending on the CGi design, the URL commands may be able to be stringed together, and multiple commands may be issued in a single line.

An example would be when the access control device at the entrance detects an entry, this device provides a DI signal to the PTZ camera, and triggers an event. This event then sends a loopback command to the PTZ Camera itself (by setting its own IP as the HTTP CGI server). The PTZ Camera then moves to a preset location, stays until the event is over, then move back to another location. At the same time it moves to the preset location, it increases the bitrate from 750k to 3M, and the frame rate from 4 fps to 8 fps. The bitrate / fps changes are reverted at the end of event.



## **Event List**

You may define a maximum of 10 Event rules, which will be shown in abbreviated form in the Event List panel. It will display under each Event ID, the days of the week it will be active, the start time and duration of the active period, the type of the source of trigger, and the actions used in the response. If the row is greyed out, this means the rule is currently not enabled and stays inactive.

Event Rule						
ID	Week Day	Start	Duration	Source	Action	
1	1234567	00:00	24:00	NIGHT	VPROFILE	
2	12345	08:00	20:00	SCH	D01	
3	1234567	00:00	24:00	NONE	NONE	
4	1234567	00:00	24:00	NONE	NONE	
5	1234567	00:00	24:00	NONE	NONE	
6	1234567	00:00	24:00	NONE	NONE	

There are several parts to the Event rule:

#### When is it active?

You may choose to enable the rule or not **1**. The settings will be kept in internal memory even if

the event rule is disabled. Select the days in a weekly cycle 😢 in which this rule and schedule is active.

Determine the **3**start time and **4**duration of the active period. For example, a rule that lets motion detection trigger snapshot uploads to FTP would only take place after 19:00 each day for 12 hours. Outside of this time the rule will not be active.





	Event Rule 1
1 Enabled	
Active on	✓ Mon ✓ Tue ✓ Wed ✓ Thr ✓ Fri ✓ Sat ✓ Sun
3 Time	00 • : 00 •
4 Duration	24 • : 00 • (max. 168:00 hours)

#### How is it triggered?

Events may be triggered by several sources:

Triggered by	Switch to night mode	•

You may also ask the event to be repeatedly triggered during this scheduled time. The interval is determined in minutes. You may use this with email / FTP upload to take snapshots at regular intervals.

DIs: For selected models only, the IP device may be triggered by Digital Input.

**Motion**: You may trigger the event if one or many Motion Detection regions encounter a motion trigger. Trigger from any of them will initiate the event. The duration of event will be the same as the MD trigger length, or the Trigger interval time, defined in the Motion Detection section on Video Adjust page.

**Video Loss**: This is available for video servers only. When the analog video in is lost, the video state will become "lost", and return to "normal" only until device receives analog video signal. A common scenario is for Video Server to send email to administrator when video is lost, and activate DO signal to alarm that persists until the analog signal is restored.

**Switch to Night mode**: This is available to selected models only. When camera changes between day and night modes, the embedded event handler will notice this change, and may act upon this information.

Potential uses include changing the motion detection profile to another set of Event MD parameters. By having two sets of parameters each optimized for day and night, this provide

better overall accuracy in both day and night conditions. Some night time only MD regions may also be activated this way. The event period will end when the camera returns to day mode, which will then reset the camera to the original settings.

**Device boots completely**: This will trigger the event responses once the device boots up. You can use this to create a notification system that keeps record of when the device has been rebooted via email.

**Reboot device**: This triggers the event response when the device is shut down via web UI "Save and Reboot". Use this to keep record of when was the device setting edited. Note that this will not take effect when the device is unplugged, as this is not normal shutdown.

#### What responses will occur?



**Digital Output** (selected models only): This is an useful link to other devices. Click to include this in the response for this rule.

**Send notification Message**: Select from the three pre-defined messages which you've setup in the Event Configuration section. You may enable multiple messages at the same time. For sending Email, please limit the recipient to one per event rule. If you need to send email to more than one recipient, please use separate event rules triggered by the same trigger.

**Upload video/snapshots**: Select which of the event configurations to include in this response set. If you are sending email via upload video and sending notification message at the same time, the system will automatically merge the two emails into one. The subject and image will be based upon the Upload snapshot Event configuration enabled, but the message in the body text will be based upon the Notification messages.

In general, please stick to the "one email per event rule" limit for best performance.

Change Motion Detection profile: This will switch the profile of the selected Motion Detection

region from Runtime profile to Event profile. The profile will return to runtime settings at the end of this event. You may program one motion detection region to be disabled at runtime, but enable it with event handler under some circumstances.

**Send URL command**: Select the URL command to include in the response set. Two different commands will be sent at the time when the event is triggered and untriggered.

**Change to Night Mode** (Selected models only): For some models, you may force the Camera into Night mode. The camera will return to its previous setting (whether auto or forced day/ night) upon the end of the event.

Go to a preset point: if the device is a PTZ camera, and the Go to Preset point Event Configuration is setup, then you may include this in the response section of the event rule. The camera will return to the position right before the event starts when the event is untriggered.

<u>Be sure to do Save and Reboot after you've updated the event settings. Only then will the</u> <u>settings be committed to physical memory. You may lose the settings to power loss or</u> <u>other situations if you do not do this step.</u>

### **Manual Event**

You may select one event in the Manual Event area below the event list to be triggered via web UI.

	Manual Event
Event 1 🔻	can be triggered manually.
	Apply Reset

Once selected, the trigger button on the video display screen will show as clickable. Click to trigger the selected event. This is useful during event rule testing.

Live Setup		v	Veb Configur	ator		
Function	Media 1 -	Stream Type H.264	Size		DO1	Trigger
			73			www.acti.con

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# System

Click the 🔳	[System] item on the	"Setup Page".
-------------	----------------------	---------------

System
 User Account
 System Info
 Factory Default
 Firmware Upload
 Save & Reboot
 Logout

# **User Account**

User	Account	Password
1 Root*	admin	123456
- User 1		
User 2		
User 3		
User 4		
User 5		
User 6		
User 7		
User 8		
User 9		
User 10		

Click the [User Account Setting] item to display the "User Account Setting Page".

Setup the account names and their passwords. There are 1 root (administrator) account and 10 common user accounts (Administrator account allows the user to watch the live view and setup everything; but common user account allows user only to watch the live image.

Click the (3) [Apply] button to confirm the settings or click the (4) [Reset] button to re-enter the parameters.

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# **System Info**

Click the [System Info] item to show details about this IP device including system information, WAN status and system log. Refer to the table below for how to configure each setting.

View the information at the 3 textboxes. This information is very useful to understand the IP device status and to resolve any problem that might occur.

System Information:	
Firmware Version = A1D-311-V5.02.26-AC MAC Address = 00:0F:7C:06:13:7B Production ID = KCM5111-11A-X-00008 Factory Default Type = Two-Way Audio (0x71) Company Name = ACTi Corporation WEB Site = www.acti.com Profile ID = OV5653-KB2_V110106A Sensor Board = OV5653	E
WAN Status :	
IP Address : 192.168.0.100 Netmask : 255.255.255.0 Gateway : 192.168.0.254 DNS Server : DDNS Host : WAN Connect Status : Disconnect DNS Connect Status : Disconnect DDNS Connect Status: Disconnect	
System Log :	
Bootloader Version BOOTLOADER-310-V01.12 Loading GPIO driver. Devcap Version 0x1FF1 Loading RS232 driver. Loading MAC driver. Loading I2C BUS driver. Loading Audio driver.	
Bootloader Version BOOTLOADER-310-V01.12 Loading GPIO driver. Devcap Version 0x1FF1 Loading RS232 driver. Loading MAC driver. Loading I2C BUS driver. Loading Audio driver. Loading SD Card driver.	
Bootloader Version BOOTLOADER-310-V01.12 Loading GPIO driver. Devcap Version 0x1FF1 Loading MAC driver. Loading MAC driver. Loading I2C BUS driver. Loading Audio driver. Loading SD Card driver.	Parameter List
System Log: Bootloader Version BOOTLOADER-310-V01.12 Loading GPIO driver. Devcap Version 0x1FF1 Loading RS232 driver. Loading MAC driver. Loading I2C BUS driver. Loading Audio driver. Loading SD Card driver. Config file: The unit's parameters and their current settings. Always attach the server report when contacting your support channel.	-



Column	Description		
Custom info	It shows the firmware version, MAC address, production ID, and factory		
System info	default type of IP device.		
	It shows the WAN port's IP address, netmask, gateway, DNS server,		
WAN status	DDNS host and connection status.		
	It shows the system event. This column is very useful to as a diagnostic		
System log	tool. At the bottom of this area is the ISP firmware version, which is an		
	useful diagnostic parameter.		

Click [Parameter List] to see all configurations of the IP device.

Click [Server Report] to export related information while reporting to your support channel.

# **Factory Default**

Click the [Factory Default] item to display the "Factory Default Page".

Preserve network setting and HTTP/HTTPS port.
Reset parameters to the original factory settings.
Apply

If you want to keep network settings and restore other settings to factory default, please select the first option. If you select the second one instead, all the settings would be removed during factory default. You will have to use factory default IP setting to connect to this camera. Please refer to previous login section.

Click the [Apply] button to show a warning dialog that reminds you again before restoring the device to factory default.



# **Firmware Upload**

Click the [Firmware Upload] item to display the "Firmware Upgrade Page". Upgrade the IP device's firmware through this page with the following instructions. You may upgrade firmware for individual cameras with this function. To upgrade camera firmware in batches, please use IP utility, which can be freely downloaded from website. The firmware file you download from website will contain one .upg file, and one .md5 file. Uploading firmware through Web Configurator uses only the .upg file. You will need both files if you are doing multiple upgrades with IP Utility.

Firmware Upload
Do you want to do firmware upload?
Apply

Click the [Apply] button. The "Firmware Upgrade Page-2" will be displayed as below.

	Fir	mware Upload
Firmware :		瀏覽
Apply	Reset	

Click [Browse] to select the upgrade image file. You can always get the latest version at our website. Click the [Apply] button to start upgrade.

The upgrade process window will show a progress bar indicating upgrade status.

Once the process is finished, you will get an "OK" message and system will reboot itself.

**NOTE:** If you cancel the firmware upgrade during upgrade process, the browser window will be closed



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## Save & Reboot

This section tells you how to save all the settings and reboot this IP device. This is critical because some settings might not take effect before save and reboot. Click the [Save & Reboot] item to display the "Reboot Page".

The Action LED indicator will go dark to indicate that the IP device is rebooting. After around 30 seconds, the Action LED will light up again to indicate that the reboot is completed.

## Logout

Clicking this item allows you to log out of the IP device. Be sure to logout this IP device once your setting is completed.