IP-1614GII IP Cameras Products Series

User Manual & Installation Guide

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Check Event Status	
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1. Product Overview

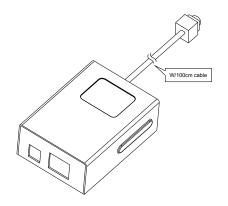
What is IP Cameras?

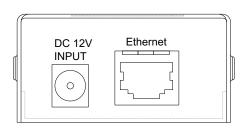
IP Cameras is designed for intranet & internet use. Users can view image or change configurations via built-in web server. The two-layer user-validation prevents any illegal user to monitor or change configuration once user validation is enabled

Product Features

IP Cameras	CPU: 32 Bits RISC Processor. 16Mb Flash, 64Mb SDRAM
	Linux OS
	TCP/IP network remote Video transmission system
	High performance JPEG/MJPEG compression
	Built-in Web sever
	Built-in DHCP Client
	Built-in Motion Detection
	Frame Rate Control
	Administrator / User level password protection
	Snapshots
	On-line firmware upgrade
	Frame Rate: NTSC: 30 frame/sec

2. Physical Connections



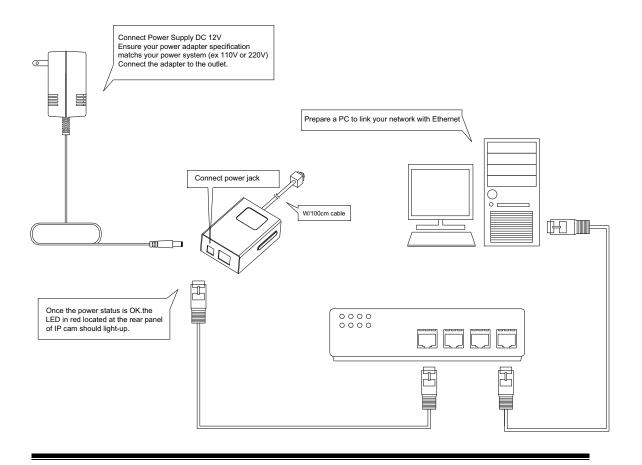


Side Panel Connections

Front Panel Connections

IP-R1614GII

3. Installation



Network connectivity check

```
G 命令提示符
C: \>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Ping statistics for 192.168.1.1:
Packets: Sent = 4, Received = 4, Lost = 0 <0% loss>,
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C: \>
```

Please check your network connectivity before you start install the product. Confirm the link status of your LAN is OK. You may try use the following way to check the network.

Assuming you are under Microsoft Windows 2000 desktop, Click on Start button, Programs, Accessories, Command Prompt [,] Then there will be a blank window appear to wait command input. Please key in the following command to test the network status.

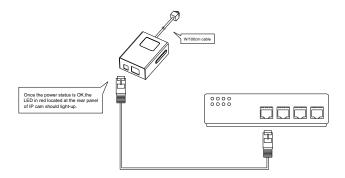
C:\>ping 192.168.1.1 [Enter]

*Note: the target IP address given above may be correct in common scenarios, if your network is not configured by IP segment 192.168.1.x, please change the IP Address to a valid address in your local network. Any difficulties please contact your network administrator for assistance.

If your network status is OK, the result of above command should like following

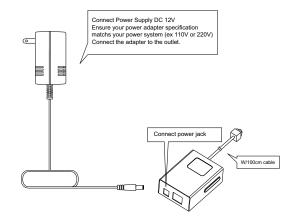
Pinging 192.168.1.1 with 32 bytes of data: Reply from 192.168.1.1 bytes=32 time=10ms TTL=64

If you have confirmed your network connectivity is OK, Please proceed to next part of installation guide, otherwise, contact your network administrator to recover the problem. Connect IP cam to network



Connect IP cam to your hub/switch by using a normal RJ45 cable, plug the RJ45 cable into the Ethernet connector locate at the rear panel of the IP cam, another side connect to your hub/switch.

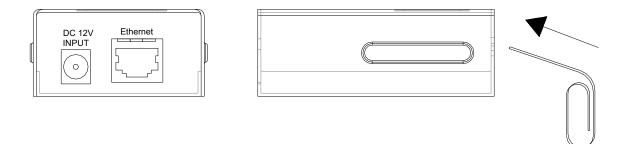
Connect Power Supply



Connect the IP cam and power source with the adapter provided, plug the power adapter into the DC 12V Connector. Once the power status is OK, the LED in red located at the rear panel of IP cam should light-up.

How to reset

Load IP Cam Default Settings



IP Locator -Devices Lis	t					×
Security Check	Device name	Model/Version	Mac Address	IP Address	HTTP Port	
	WebCaml	IVS-1000/v2.41	00:0E:01:10:02:62	192.168.2.41	80	
	yakk SpeedLanDome	IVS-1000/v2.40 IVS-1000/v2.31	00:0E:01:10:01:A2 00:0E:01:10:00:5E	192.168.2.36 192.168.2.168	80 80	
Click to s Change car	select the line	up address,and gw: you want to change and ip on right edit box ater		Refresh	Ex	it

Start your first time network monitoring

Run the "IPLocator" utility, the newly connected IP cam will be listed in the application window. Please remember its' IP address.

Open an Internet Explorer Window input the following address into the address textbox:

http://[IP cam IP Address provided by IPLocator]

After you press on the enter key, the main working interface and video picked by the camera should appear after a short period. The installation steps are completed. You may now start your first network monitoring experience.

Note: when you first time enter the working interface, the browser may ask whether to install a COMWebSurv component, which is used to communicate with our IP cam product, PLEASE CHOOSE YES to install, otherwise the monitoring function may not work.

How to visit the built-in web

Launch your Internet Explorer (I.E. 6.0 or above) first, then type the IP cam's url. (i.e. http://192.168.1.100). The user validation is disabled as default, no login is necessary. The user is same as the system administrator(Default : root/pass).

For the first time user visits the IP Cam, the ActiveX(ATLWebSurvCOM) will be downloaded to the **[Downloaded Program File]**. Be sure to click the button **[Yes]** as below.

Notes: Call your system administrator if you have not enough privilege to download the ActiveX. (i.e. Users should be the administrator to download the ActiveX for Windows 2000/XP operation system)



You can find the ActiveX ATLWebSurvCOM will be downloaded to the **[Downloaded Program File]** folder. The above dialog will pop automatically once new ActiveX is available(i.e. after firmware upgrade)

Downloaded Program Files					_0×
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Address 🚵 Downloaded Program Files	1				- @Go
	Program File 🔺	Status	Total Size	Creation Date	Last Accessed
	📕 ATLWebSurv Class	Installed	256 KB	9/30/2003 6:01 PM	10/6/2003
Deventoaded Program Files This folder contains the files needed to display Web pages that you have already opened. Most of these files help run animations on a Web page. The files are placed in this folder when you visit a Web page so that if you open that page again, the page will be displayed more quickly. Select an item to view its description,	4				,
object(s)	<u> </u>				

About the User Interface of IP Cam

The upper window is for company logo display (i.e. This is a generic version. The company logo leaves blank). The left side of the window is the control panel. The right window is for image display. (Please switch to full screen mode when the resolution is set to VGA mode)



How to check the firmware version

Click the WebCam icon and you will read the firmware version



How to change the configurations

The system administrator: root is the one who has the privilege to change system configuration if user validation is enabled. The following window will appear when you click [Options] icon in the control panel (left side of the window). The follow is the description & field definition.

[System]:

Server Info: Server Model and Firmware Version

Device Name: the name of hardware device.

Video Mode: Video Mode (NTSC or PAL)

Time Zone: Time Zone Setting

Display Option

Show Camera Name: Show Camera Name on Display

Show Date Time: Show Date Time on display

Traffic Control: Bandwidth Setting

Others

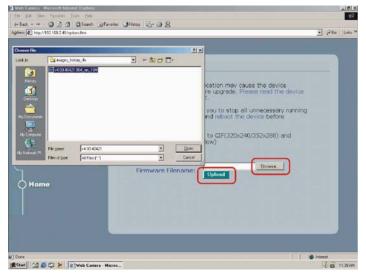
Load default configuration: Load the factory default.

Reboot: Reboot the hardware remotely.

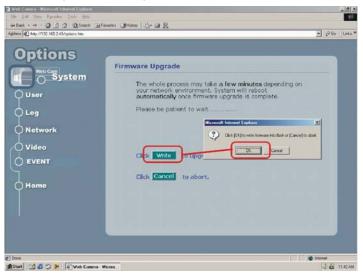
Firmware Upgrade : Upload & upgrade the IP cam firmware.

[Firmware Upgrade]: Please follow the standard procedure to upgrade firmware.

- Step 0: Stop all unnecessary running application in your PC.
- Step 1: Uncheck the [Browse..] and [Upload] motion images in the Motion Detection Setting and reboot the hardware. Note: You have to make all event setting to be disable, before you do this step.
- Step 2: Upload the firmware: Be sure to upload the correct firmware. Wrong firmware may cause your IP cam malfunction. It's possible to take a few minutes to upload the firmware into memory depending on the network environment. Since too many unknown situation may occur in the Internet, we strongly recommend you to upgrade firmware in the Intranet.



- Step 3: Write firmware to your IP cam. It will take a few minutes to write firmware into flash. The IP cam will reboot automatically when writing firmware is complete. Please DO NOT reboot the device manually.
 - **Note:** Any interrupt during writing will cause the IP cam malfunction. The UPS may prevent the power failure problem.



How to change User Logo

We allow you to use your own logo from version v3.0. User logo will not be erased when you upgrade firmware in the future. The detailed procedures are as follows: Step1: Type <u>http://Video ServerIP/LogoUpload.htm</u>

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<u><u> </u></u>	it ⊻iew F <u>a</u> vorites <u>I</u> ools <u>H</u> elp
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Address	http://192.168.2.32/LogoUpload.htm
	type http://x.x.x/LogoUpload.htm

Step 2: Browser the logo file to use and upload to upload it. Note: The file format must be gif and the max size is 30 K bytes.

🛃 http://	/192.168.2	2_32/Log	oUpload	l.htm - Mi	crosoft Inter	net Explorer												
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Address	ど http://1	92.168.2.	32/LogoU	pload.htm														
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	U	pload	l Log	o file	6													
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	My Docu																	

Note: Please stop all unnecessary running applications in your PC while changing logo.
Click Change to change logo Click [OK] to change really!

Step 3: Click [Change] button to write logo file into flash memory.

Step 4: Reboot Video Server once ChangeLogo is complete.

Change Log	go
	Note: Please stop all unnecessary running applications in your PC while changing logo.
	Microsoft Internet Explorer
	Click Change Enable user logol You have to reboot the device and clear the [Temporary Internet files] in I.E. to take changes effect
	Click Cencel to abort.
Change Lo	ogo
	Note: Please stop all unnecessary running applications in your PC while changing logo.
	Click Change Microsoft Internet Explorer
	Click Cancel

Step 5: You have to clear the [Temporary Internet files] to take changes effect since there is always some catch in the I.E. Please click [Tools] [Internet Options..] on the top bar.

🛃 Web Camera - Microsoft Int	ernet Explorer
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	Tools Help
	Mail and News Synchronize Windows Update
	MSN Messenger Service Show <u>R</u> elated Links
	Internet Options
<u> </u>	

Step 6: Clear [Temporary	Internet files] as follows.
--------------------------	-----------------------------

Home pag	Sector and the sector of the	ge which p	age to use for your	home page.
ЦШ,	Add <u>ress</u> : [r	m/isapi/red	r.dll?prd=ie&pver=5	5.5&ar=msnhome
	lse	e <u>C</u> urrent	Use <u>D</u> efault	Use <u>B</u> lank
Temporar	y Internet files	1		
	^o ages you vie or quick viewi		ternet are stored in	a special folder
	UT QUICK YIERYI	ny alei. 🔪		
	or quick yiewi	ing later.	Delete Files	Settings
	UI QUICK VIEWI	ing later.	Delete <u>F</u> iles	Settings
- History -			1	
History	The History fol	lder contain	Delete <u>F</u> iles s links to pages yo viewed pages.	
History	The History fol	lder contain	s links to pages yo	
History	The History fol quick access t Files	der contair to recently	s links to pages yo	
History	The History fol quick access t Files Delete all file	Ider contain to recently s in the Ter	s linksto pages yo viewed pages.	u've visited, for

Step 7: Refresh I.E. (Click F5) to take changes effect. You will see you new logo below.



How to disable and enable user logo

Type: http://Video ServerIP/SetOEM.cgi?LOGO=0 to turn off the user logo

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Address	http://19	2.168.2.32/S	et0EM.cgi?L0	IGO=0				-
						at the second		
http://19.	2.168.2	32/SetOEM	.cgi?L060=	0 - Microsoft	Internet Exp	nlores		
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and the second se								
Address 🥙	http://19	2.168.2.32/S	etOEM.cgi?LO(GO=O				
Pi	ease icrosoft	clear T nternet Exp Disable user k You have to n	empora	ry Interr			-	×

or <u>http://Video ServerIP/SetOEM.cgi?LOGO=1</u> to turn on the user logo

User Management

The administrator(root) has the privilege to manage users if User Validation is enabled. Here are the configurations available & field definition.

[User]:

User validation

Yes : Enable user check

No : Disable user check

Add/Modify User: To create new user or modify existing user password

Username : user name

Password: user password

Confirm : user password confirmation

Delete user: To delete existing user

Current User List: The users in the IP cam

🚈 Web Camera - Microsoft Internet Explorer				_ 8	×
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Address 🛃 http://192.168.2.48/options.htm				💌 🧬 Go 🛛 Link	(s »
Options	Management Settin User Validation: Yes Add/Modify User Username: Password: Confirm: Delete user: Username: Current User List <u>1:root</u>	root v	Submit		
al Done				Internet	
-				🔰 internet	
🎉 Start 🛛 💋 🏈 🧊 📔 🛛 🖗 Web Camera - Micros				V: 🔊 🧐 11:51 A	ам

Log

The system log will be listed in the window when you click [Log] icon.

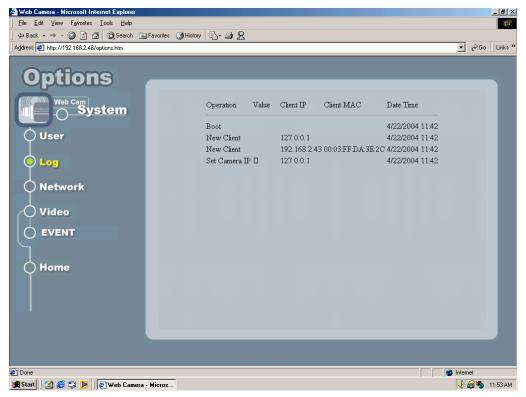
Operation: The operation which user operates

Value: The value to change

Client IP: The IP address of client PC

Client MAC: The mac address of client PC

Datetime: date-time which operation occurs



Network

Allows administrator(root) to change network setting when you click [Network] icon.

IP Setting: Please consult you networking manager for the following values **Manual:** To set network setting manually.

DHCP: To let IP cam get network setting from DHCP server automatically.

IP Address: IP address of IP cam

 $\label{eq:subnet_mask} \textbf{Subnet mask of IP cam}$

Default Gateway: Default gateway of IP cam

DNS 1/2/3: DNS Server IP if necessary

Http Port: Change the http port of built-in web server (default 80).

(i.e. range 80, 1025 ~ 65535)

Options	
Web Cam Network Setting User IP Setting : O User • Manual IP Address : 192163243	
Subnet Mask : 25525250 Network Default Gateway : Video DNS 1 : DNS 2 : 0000 EVENT Http Port : Home COM Port Setting	

Video

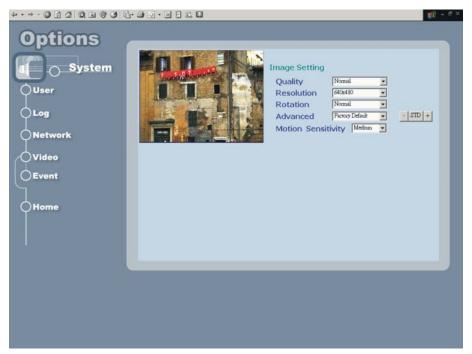
Allows administrator(root) to change Image Setting, Traffic Control or Motion Detection.

Image Setting

Quality: Image Quality (Low/Normal/Good/Fine/Excellent)Images Size: 160x120/176x144/320x240/352x288/640x480/704x576Rotation: Nomal/180 degree (Upside down)Advanced: Image preference adjustmentBrightness: Adjust image brightnessContrast: Adjust image contrastHue: Adjust image hueSaturation: Adjust image saturation

Traffic Control

Unlimited: To send out image at full speed. (up to 30 frames per second) **Frame per second:** Delay to send image every x second(mini-second)



Event

This Option contains three major functions: Server Configuration, GPIO Configuration and Event Configuration

Server Configuration: User can setup Ftp and Mail services that provides the actions in Event setting.

↓ • • → • ◎ 2 Δ 0, 0 0 0 0	- .				19 - 8 ×
Options	Server Setting	DI Setting D) Setting	MSG Setting	Event Configuration
System					
O User	Mail	Setting SMTP Server	mail.asip.com.t	otion images v	Submit
↓ Log ↓ Network		User Name Password Mail From	webcam.asip		
Video		Mail To Mail Subject	test@asip.com.t Your Mail Subj	ect .	
Home	FTP	Setting Ftp Server User Name	Uploa	d motion image:	5
		Password Account			
		Upload Path	1		

See figure below:

Allows administrator(root) to configure the mail & ftp setting once motion detected

Mail Setting: if check on Mail motion images, Device will send motion images Mail Server: Name or IP of Mail server

Username: User name

Password: User password (Password will be validated if checked)

Mail From: Mail sender

Mail To: Mail receiver

Mail Subject: Mail subject

FTP Setting: if check on Mail motion images, Web DVR will upload motion images

FTP Server: FTP Server

Username: User name

Password: User password

Upload Path: Images upload path

GPIO Configuration : Allow user to define types of digital input and their status.

See Figure below:

DO Configuration:

÷•••03210393	3- 4 0 - 9 P M	0			18 - 5>
Options	Server Setting	DI Setting	DO Setting	MSG Setting	Event Configuration
OUser Log	Digit	al Output S	Getting DO Status		Submit
Network		Doo 💽	CON COFF		_
- Event Home		0	UP:	-	

Index: the Index of digital output

DO Type: define type of digital input to : **[Normal Open]** or **[Normal Close]** DO Status: Disable the DO or Enable it.

MSG Setting:

Alert Message function provides user the ability to send message to a remote server. Device manager can assign ip address , port number and message for remote server. Thus, Remote server can collect related alert messages via network when events are triggered.

[IP Adderss]: Server's IP adderss.

[Port Num]: Http port Number.

[Message]: Message string.

	2· 3 0 · 1 0 1 1 0			11 - 8 ×
Options	Server Setting DI Setting	DO Setting MSG	Setting Event Config	uration
ØUser	Alert Message	SettingS	kmit	
	IP Address	0000		
Network	Port Num	50000		
Video	Message	Put alert message here!		
Event				
Home				

Event Configuration: User can select Event Index to locate Event (range from 0-2) and also decide to enable or disable this event. Three parts of event setting will be discussed below: [Trigger condition], [Delay time], and [Trigger Action]

[Source]: The [Input Type] contains DI0, DI1 and Motion Detection

[Eanble]: Select to Enable the Input Type that you selected.

[Delay time]: Duration that ignores same event trigger. Range from (1-30) sec **[Action]:** Including FTP, MAIL, DO and MSG.

After System accepts trigger condition, related actions can be launched. FTP and MAIL will send image to remote area, thus; [Camera] is necessary for user to specify. DO is related to its index to specify which digital output (Only 0 is enable). MSG can send a string to remote server via TCP protocol which will be released soon.

↓ • • • • ◎ 🖸 🖄 (0, 11 (9 (3) 12-3		0				10 - 8
Option	IS Ser	ver Setting	DI Setting	DO Setting	MSG Setting	Event (Configuration
Sy Sy	stem E	vent Condii	tion				
User		Event 0 -			• detecting the	Enable	t)
⊖ Log ⊖ Network	Ation FTP and Mail include Camera ID	Action	□ FTP Image	□ Doo •			ubmit
Video	Camera ID	Event ID	Source	Action		Cam ID	Enable
Event		1 2				<u>•</u>	
⊖ Home │				De	etail List		

4. Product Specifications

Models

IP-R1614II: IP Cameras with serial communication support

Specifications:

Items	Specifications				
Model	IP-R1614GII				
Power					
Supply	DC 12V , 350mA(MAX)				
Consumption	~3 Watts				
Networking					
Connectivity	10/100 Ethernet				
Protocols	SMTP, FTP, DHCP, HTTP				
Internet	Built-In HTTP Web Server, DHCP Client				
Event Controls					
Trigger By	Motion Detect				
Alarm Notifications	FTP/Mail motion image, Message				
Sensor	1/4" CCD Image Sensor				
Images					
Compression	JPEG/MJPEG				
Bandwidth Control	Frame Rate Controls				
	NTSC:640x480/320x240/160x120				
Format	PAL: 640x480/352x288/176x144				
	25 fps @ 320x240				
Frame Rate	20 fps @ 352x288				
Quality	5 Level Image Quality				
Image adjustments	Brightness / Saturation / Contrast / Hue				
Security Controls					
Access Control	Administrator / User Level Password Protection				
Configuration	Http Port configurable				
Log	Historical Access Log Management				
Operating Environment					
Temperature	5°C~50°C(45°F~125°F)				
Humidity	20% ~ 80%				

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LED Indications	Power, Network
Dimension	60mm(W) x 31mm(H) x 84mm(L)
Remote Viewing	Windows 98/2000/XP IE5.X or above
Lens	
Built-In Lens	3.7mm/F2.0
Cable	100 flexible cable between the mini lens and the IP CAM

5. Appendix

Dictation

TCP/IP:

Transport Control Protocol/Internet Protocol, the protocol used to transmit data between hosts in Internet, which provides data verification and error protection

Web:

World Wide Web service is used on Internet widely, It's provides interactive rich content by using a web browser

Firmware:

A program built in hardware, which is used to control the hardware, provides software level functions

MJPEG:

Motion JPEG compression algorithm, use to compress digital video

MPEG:

International standard video compression algorithm

DHCP:

Dynamic host configuration protocol, used on IP network perform IP address, gateway, DNS server assignment, etc for client computers

DNS:

Domain Name Server/Service is used to translate domain name in to IP address

LAN:

Local area network

WAN:

Wide area network, normally Internet

FTP:

File transportation protocol, used to transmit files between server and client

POP:

Post office Protocol provides Email storage and receive service

SMTP:

Simple mail transportation protocol, provides Email delivery and relay service

Hub:

Physical layer network inter-link device, which simply connect ports together and broadcasting the data packet to all the port.

Switch:

Data link layer network inter-link device, which provides end-to-end data packet forwarding,

Router:

Network layer device, which connect networks and provides the function named "Routing" to find the best way to transport data from source to destination

CGI:

Common gateway interface, a kind of program, running on a web server to provides dynamic data process function and interacts with users' action

ActiveX:

Concept and standard gave by Microsoft, which separates program into functioning pieces named ActiveX Control. These control can be embed into users' program to give their specific function.

Use CGI command to setup GPIO and Events

How to configure GPIO Process?

How to setup DI type in the device

http://ServerIP/SetDIType.cgi? Channel=<1>& Enable=<FALSE | TRUE>& Type=<"NC"|"NO"> Example: Set channel 1 (Input channel) into 'NC' type

http://192.168.2.1/SetDIType.cgi? Channel=1&Type=NC&Enable=TRUE

How to get DI type in the device

http://ServerIP/GetDIType.cgi

How to get DI status into the device

http://ServerIP/GpioInput.cgi? Example: Get channel status from channel 0 to channel 1 http://192.168.2.1/GpioInput.cgi?

How to set Do status into the device

http://ServerIP/GpioOutput.cgi? Value=ON|OF Value - 0: LOW 1: HIGH Example: Set channel 1 (output channel) into LOW http://192.168.2.1/GpioOutput.cgi? Value=ON|OFF

How to Configure Event Process

How to setup event status?

http://ServerIP/SetEvent.cgi?Reset=<FALSE|TRUE>&Index=<Value>&Input_

Type=<0|1>&Enable Flag=<FALSE|TRUE>&Action FTP=<ON|OFF>&Action MAIL=<ON|OFF>&Action DO=<ON|OFF>&Action MSG=<ON|OFF>&Actio n PRESET=<ON|OFF> Index=0~2 event index from 0 to 2 Input Type: 0 = Digital Input, 1 = Motion detection Enable_Flag:FALSE|TRUE, TRUE=ENABLE, FALSE=DISABLE Action_FTP=<ON|OFF> Action_MAIL=<ON|OFF> Action_DO=<ON|OFF> Action MSG=<ON|OFF> Action_PRESET=<ON|OFF> Input_index=<Value> Output_index=<Value> Reset=<FALSE|TRUE> clean all the event Example : Setup an Event=> DI trigger "DO" and "MAIL" in first event(that means index = 0)

http://192.168.2.1/SetEvent.cgi?Index=0&Input_Type=0&Enable_Flag=TRUE&Action_F TP=ON&Action_DO=ON

How to get event status?

http://ServerIP/GetEvent.cgi?Index=<0~2> Index=0~2 Example: Get Event index =1 http:\\192.168.2.1\GetEvent.cgi?Index=1

Scenario: Use DI to trigger event and send images through Mail and FTP

This scenario can help you to simulate use our digital input to send Mail or FTP into remote side.

Turn FTP Service on the server

Enable DI status to "ON"

Exp: http://ServerIP/SetDIType.cgi? Channel=1&Type=NC

Turn On FTP and Email

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Options	Server Setting	DI Setting D	O Setting	MSG Setting	Event Configuration
OUser	2.	Setting		otion images	Submit
Log Network		SMTP Server User Name Password	mail.asip.com.tv websurv.asip		
Video Event		Mail From Mail To Mail Subject	webcam@asip.o test@asip.com.tt Your Mail Subje	W.	
Home	3. FTP:	Setting Ftp Server User Name	Upload 192.168.2.168 test	d motion images	
		Password Account Upload Path	**** /	_	

Setup Event status

http://192.168.2.1/SetEvent.cgi?

Index=0&Input_Type=0&Enable_Flag=TRUE&Action_FTP=ON&Action_MAIL=ON

Check DI type status

http://ServerIP/GetDIType.cgi Channel = 1 Enable = 1 Type = NO

Check Event Status

<u>http://192.168.2.38/GetEvent.cgi</u> Index =0, Input_Type=DI, Enable_Flag=1, Action_Type= FTP MAIL

Click on DI and you can check your mail box and FTP services