# IP CAMERA Introduction

Cgi listed in this article are set based on http protocol interface, the client program provides ip camera (which can be

running on a web browser or other web applications) can perform various operations on the device via cgi.

1, cgi safety certification:

cgi is divided into two kinds of certification authority, one is the HTTP Basic authentication method, this authentication method is to get more relevant

Cgi parameters, another authentication method is by CGI into user and password method, which is mainly related to the set

cgi.

2, post the cgi. The post refers cgi HTTP method.

3, using the post of cgi CGI use only two upgrades: upgrade\_firmware.cgi and upgrade\_htmls.cgi

Post examples:

<Form action = "upgrade\_firmware.cgi? Next\_url = mail.htm" method = "post"

enctype = "multipart / form-data">

<Input type = "file" name = "file" size = "20">

</ Form>

4, Get relevant cgi:

Get cgi device status and parameters, including get\_status.cgi and get\_params.cgi. They return including equipment like

Text states or parameters specific format similar to variable definitions in javascript, each parameter is defined as a state or

Variables and returns, such as:

var alias = "IPCAM";

var sys\_ver = "Apr 28 2011 00:18:03";

var id = "00000000031729";

5, set the relevant cgi:

Configure device parameters cgi, cgi required permissions for each different. As

http: // ip: port / set\_param.cgi loginuse = admin & loginpas = & alias = hdipcam?

6, the media stream associated cgi:

Configure device parameters cgi, cgi required permissions for each different. As

http: // ip:? port / videostream.cgi user = admin & pwd =

7, the search protocol:

Find related equipment in the LAN

# post related to CGI

## upgrade\_firmware.cgi

Description: Upgrade Device Firmware

Certification: None

Syntax: /upgrade\_firmware.cgi next\_url = rebootme.htm?

Description: The cgi using post method, the need to upgrade the file package sent to the ip camera.

## upgrade\_htmls.cgi

Description: The web interface upgrade equipment

Certification: None

Syntax: /upgrade\_htmls.cgi next\_url = rebootme.htm?

Description: The cgi using post method, the need to upgrade the file package sent to the ip camera.

# GET-related CGI

## login.cgi

Description: Get the current user and password, permissions

Certification: HTTP Authentication

Syntax: /login.cgi

Returns:

user: The current user <maximum limit of 31>, the first one can not be empty, it is best letters and numbers

pwd: current password <maximum limit of 31>, the first one can not be empty, it is best letters and numbers

pri: current permissions 􀃆IE need to distinguish according to the relevant visitors, operators, managers access the page

1: Guest

2: The operator

255: Managers

## get\_status.cgi

Description: Get Device Status

Certification: Guest

Syntax: /get\_status.cgi [user = & pwd =?]

Returns:

Var alias: alias, said device

Var deviceid: device ID

Var sys\_ver: system firmware version number

Var now: From 1970-1-10: 0: 0 to the device's current time elapsed seconds.

alarm\_status: the current state of the device, 0: no alarm, 1: Mobile alarm monitoring, 2: Enter the alarm

upnp\_status: upnp state 1-> Success 255-> failed

dnsenable: dns indicate whether to enable a third party; 0-> is not enabled 1-> Enable

osdenable: Enables OSD or not enabled, 0-> No household 1-> Enable

syswifi\_mode: 0-> wifi p2p 1-> wifi normal mode

mac: MAC address

wifimac: MAC address

var authuser: Indicates that authentication is passed, 0 means certification by 1-> is not certified, not certified by

Users can not view audio and video.

devicetype: reference device type map

dns\_status:

3322 / dyndns:

2-> parameter insufficiency

3-> Normal

4-> Error

5-> Authentication error

6-> donator

7-> notfqdn

8-> nohost

9-> yours

10-> numhost

11-> abuse

12-> good 127.0.0.1

9299:

40-> ok

41-> ER

42-> DA

43-> SNE

44-> NE

## get\_params.cgi

get\_params.cgi

Description: Get device parameter settings

Certification: Some or all of the visitors to the administrator

Syntax: /get\_params.cgi [user = & pwd =?]

Returns:

Time set of parameters

tz device current time zone settings, and seconds standard deviation GMT

ntp\_enable 0: ntp school is disabled; 1: Enable

ntp\_svr NTP server

Network parameters set

dhcpen DHCP open

ip ip address

mask subnet mask

gateway Gateway

dns1 first dns server

Dns2 second dns server

port port

Merge Cells

dev2\_alias second road device aliases

dev2\_host second road device address

dev2\_port second road device port

dev2\_user second device access road users

dev2\_pwd second road equipment access password

...

dev9\_alias ninth road device aliases

dev9\_host ninth road device address

dev9\_port ninth road device port

dev9\_user ninth road access to the user equipment

dev9\_pwd ninth road equipment access password

The following parameters need the administrator password to access

Wireless parameter group <need administrator privileges>

wifi\_enable WIFI Open logo

ssid wifi\_ssid wifi network

wifi\_mode Wifi network mode

wifi\_encrypt see below get\_wifi\_scan\_result.cgi

wifi\_authtype check mode, 0: open; 1: share

wifi\_keyformat key format, 0:16 hexadecimal digits; 1: ascii characters

wifi\_defkey key selection

wifi\_key1 key 1

wifi\_key2 Key 2

wifi\_key3 key 3

wifi\_key4 Key 4

wifi\_key1\_bits a key length, 0: 64 bits; 1: 128 bits

2 wifi\_key2\_bits key length, 0: 64 bits; 1: 128 bits

wifi\_key3\_bits three key length, 0: 64 bits; 1: 128 bits

wifi\_key4\_bits key length 4, 0: 64 bits; 1: 128 bits

wifi\_wpa\_psk wpa psk key

PPPOE parameter group <need administrator privileges>

pppoe\_enable 0: ban pppoe; 1: Allow

pppoe\_user Pppoe dial-up users

pppoe\_pwd Pppoe dialing code

RTSP parameter group <need administrator privileges>

rtsp\_auth\_enable RTSP stream Certification

rtsp\_user rtsp user

Rtsp\_pwd rtsp password

UPNP parameter group

upnp\_enable 0: ban upnp mapping function; 1: Enable

Public domain <need administrator privileges>

ddns\_user ddns user

ddns\_pwd ddns password

ddns\_host ddns domain

ddns\_proxy\_svr proxy server address

ddns\_proxy\_port proxy port

ddns\_status current domain state

Mail Service <administrator privileges>

mail\_svr mail server address

mail\_port mail service port

mail\_user mail server login user

mail\_pwd mail server login password

mail\_sender mail sender

mail\_receiver1 mail recipient 1

mail\_receiver2 mail recipient 2

mail\_receiver3 mail recipient 3

mail\_receiver4 mail recipient 4

inet ip camera when changing mail\_inet\_ip whether to send e-mail notification, 0: no; 1:

Is

mailssl 0: do not use, 1: starttls, 2: tls

FTP parameter group <administrator privileges>

ftp\_svr ftp server address

ftp\_port ftp server port

ftp\_user ftp server login user

ftp\_pwd ftp server login password

storage directory on the ftp\_dir ftp server

ftp\_mode 0: port mode; 1: pasv mode

ftp\_upload\_interval instantly upload pictures of the interval (s), 0: Disable

ftp\_filename ftp save file name

Alarm parameter group <administrator privileges>

alarm\_motion\_armed 0: motion detection disarm; 1: Arms

alarm\_motion\_sensitivity 0-9: High - Low

alarm\_input\_armed 0: input detection disarm; 1: Arms

alarm\_ioin\_level input alarm trigger level, 0: Low; 1: High

alarm\_iolinkage 0: io linkage alarm is disabled; 1: Enable

alarm\_presetsit 0: ban preset alarm linkage; Other: preset alarm linkage

Position

alarm\_ioout\_level io linkage output level 0: Low; 1: High

alarm\_mail 0: Alarm mail notification is disabled; 1: Enable

alarm\_upload\_interval upload pictures alarm interval (s), 0: Disable

alarm\_snapshot <some models support> 0: alarm forbidden to take pictures; 1: Yun

alarm\_record <some models support> 0: alarm is disabled fat like; 1: Enable

alarm\_http 0: Alarm HTTP access is disabled 1: Enabled

When police visited URL alarm\_http\_url

alarm\_schedule\_enable whether to adopt the deployment plan

alarm\_schedule\_sun\_0 deployment plan Sunday, 24 hours a day by hour by 15 minutes

Arm 96 is divided into periods.

bit0-95: 0: The time is not armed; 1: Arming the period

alarm\_schedule\_sun\_1

alarm\_schedule\_sun\_2

alarm\_schedule\_mon\_0

alarm\_schedule\_mon\_1

alarm\_schedule\_mon\_2

alarm\_schedule\_tue\_0

alarm\_schedule\_tue\_1

alarm\_schedule\_tue\_2

alarm\_schedule\_wed\_0

alarm\_schedule\_wed\_1

alarm\_schedule\_wed\_2

alarm\_schedule\_thu\_0

alarm\_schedule\_thu\_1

alarm\_schedule\_thu\_2

alarm\_schedule\_fri\_0

alarm\_schedule\_fri\_1

alarm\_schedule\_fri\_2

alarm\_schedule\_sat\_0

alarm\_schedule\_sat\_1

alarm\_schedule\_sat\_2

alarm\_sun\_0

alarm\_sun\_1

alarm\_sun\_2

alarm\_mon\_0;

Indicate that in addition to recording, alarm linkage other actions whether to start? Every day

By 24 hours, every hour by 15 minutes divided into 96 mark.

bit0-95: 0: The session does not start; 1: Enable this period

alarm\_mon\_1

alarm\_mon\_2

alarm\_tue\_0

alarm\_tue\_1

alarm\_tue\_2

alarm\_wed\_0

alarm\_wed\_1

alarm\_wed\_2

alarm\_thu\_0

alarm\_thu\_1

alarm\_thu\_2

alarm\_fri\_0

alarm\_fri\_1

alarm\_fri\_2

alarm\_sat\_0

alarm\_sat\_1

alarm\_sat\_2

## get\_misc.cgi

Description: Get the miscellaneous camera parameters

Certification: Guest

Syntax: /get\_misc.cgi [user = & pwd =?]

Returns: See set\_misc.cgi

ptz\_patrol\_rate: represents the entire speed

ptz\_patrol\_up\_rate: represent up speed

ptz\_patrol\_down\_rate: express-down speed

ptz\_patrol\_left\_rate: speed, said left

ptz\_patrol\_right\_rate: represents the right speed

ptz\_disppreset: disable preset, 0-> represents not disable preset 1-> disable presets

ptz\_center\_onstart: indicates the reboot automatically centered, 0-> means no automatic centering 1-> represents AutoCenter

preset\_onstart: Indicates whether to start calling presets, preset position must be set, ptz\_disppreset = 0 the only case

Will work. 0 indicates start center, call 1-16 denote the corresponding preset position when you start you need to set the relevant

Preset, if not set, may lead to inaccurate position.

led\_mode: refers to light the lamp mode represents three modes 0-2 <some models have>

ptruntimes: cruise laps

## get\_alarmlog.cgi

Description: Get the camera log

Certification: Guest

Syntax: /get\_log.cgi [user = & pwd =?]

Returns: log information, such as:

log\_text = 'Mon, 2009-08-03 19:53:04 ipcamera 192.168.0.16

access \ nMon, 2009-08-03 20:13:03 admin 192.168.0.16

access \ n ';

Log\_text variables which store log information between each log with '\ n' apart

## get\_camera\_params.cgi

Description: Get the camera parameters

Permissions: Guest

Syntax: /get\_camera\_params.cgi [user = & pwd =?]

Usage: /get\_camera\_params.cgi?

Resolution: take the sensor's maximum resolution

0-> 640x480

1-> 320x240

2-> 160x120;

3-> 1280x720

4-> 640x360

5-> 1280x960

vbright 0-255

vcontrast 0-255

vsaturation 0-255

vhue 0-255

mode 0-> 50hz 1-> 60hz

flip 0-> normal 1-> mirr 2-> flip 3-> mirr and flip

OSDEnable 0-> ban OSD 1-> Enable OSD

enc\_framerate framerate

sub\_enc\_framerate rate times the frame rate <some models have>

## get\_record.cgi

Description: Get the video parameters

Certification: Guest

Grammar: Reference Recording Scheme

Some models support

Main rate:

enc\_size: Resolution represents the main stream

enc\_keyframe: key frame rate represents the main stream

enc\_framerate: key frame rate represents the main stream

enc\_ratemode: 0-> CBR 1-> VBR

enc\_quant: the main stream of image quality

enc\_bitrate: primary rate

Time rate:

sub\_enc\_size: indicates the second stream Resolution

sub\_enc\_keyframe: key frame rate, said second stream

sub\_enc\_framerate: key frame rate, said second stream

sub\_enc\_ratemode: 0-> CBR 1-> VBR

sub\_enc\_quant: secondary stream of image quality

sub\_enc\_bitrate: time code rate

The above parameters need to have the expertise to configure, otherwise use the following enc\_mode

enc\_main\_mode:

0-> represents the top-enabled custom parameters

1-10 indicates that the video compression produces a rate of various grades, specifically requested to ask for solution providers

enc\_sub\_mode:

0-> represents the top-enabled custom parameters

1-10 indicates that the video compression produces a rate of various grades, specifically requested to ask for solution providers

record\_cover\_enable: video coverage represents 0-> represents not permitted 1-> represents the charge Hsu

record\_gpio\_enable: represents GPIO input alarm charge Xu bit 0-> represents not permitted 1-> represents the charge Hsu

record\_motion\_enable: Motion Detection Record charge Xu bit 0-> represents not permitted 1-> represents the charge Hsu

record\_time\_enable: Xu said the charge timer recording bit 0-> represents not permitted 1-> represents the charge Hsu

record\_timer: 0-> represents the video files by time to calculate the 1-> represents the video files by length calculation

record\_size: time to count: In the second count, the range of values ​​60s-1800s; according to length count: Mbyte, value range:

5M-100M

Week deployment plans by 24 hours a day, hour by 15 minutes divided into four periods arm.

bit0-95: 0: The time is not armed; 1: Arming the period

record\_schedule\_sun\_0:

record\_schedule\_sun\_1:

record\_schedule\_sun\_2:

record\_schedule\_mon\_0:

record\_schedule\_mon\_1:

record\_schedule\_mon\_2:

record\_schedule\_tue\_0:

record\_schedule\_tue\_1:

record\_schedule\_tue\_2:

record\_schedule\_wed\_0:

record\_schedule\_wed\_1:

record\_schedule\_wed\_2:

record\_schedule\_thu\_0:

record\_schedule\_thu\_1:

record\_schedule\_thu\_2:

record\_schedule\_fri\_0:

record\_schedule\_fri\_1:

record\_schedule\_fri\_2:

record\_schedule\_sat\_0:

record\_schedule\_sat\_1:

record\_schedule\_sat\_2:

## get\_factory\_param.cgi

Description: The basic parameters of the manufacturers

Certification: Managers

factory\_server: Manufacturers Dynamic DNS address

factory\_user: factory DDNS username

factory\_passwd: Manufacturers dynamic domain password, you need administrator privileges.

factory\_heatbeat: Manufacturers move heartbeat interval

factory\_port: Manufacturers Dynamic DNS port

factory\_status: Manufacturers Domain Status

## get\_wifi\_scan\_result.cgi

Description: Get the results of the search of the wireless network cameras

Certification: Managers

Syntax: /get\_wifi\_scan\_result.cgi

Returns:

ap\_number: refers to the number of search SSID, the following variables on the number of groups, the first group as an example:

ap\_ssid [0]: refers to the ssid

ap\_mode [0]: refers to the work mode, 0-> infra 1-> adhoc

ap\_security [0]:

0-> refers to WEP-NONE

1-> refers WEP

2-> WPA-PSK TKIP

3-> WPA-PSK AES

4-> WPA2-PSK TKIP

5-> WPA2-PSK AES

ap\_dbm0 [0]: Signal Strength

## get\_record\_file.cgi

Description: Get the name of the video file

Certification: Managers

Syntax: video file name

<Some models support>

record\_num0: How many video files

record\_name0: video file name

## get\_factory\_parm.cgi

Description: Get Manufacturers News

Certification: Managers

Syntax: video file name

factory\_server: Manufacturers domain news

factory\_user: Manufacturers domain username

factory\_passwd: Manufacturers domain password

factory\_heatbeat: Manufacturers heartbeat packet domain

factory\_port: Manufacturers domain port

factory\_status: Manufacturers Domain Status

CGI related media streams

snapshot.cgi

Description: Get the current picture

Certification: Guest

Syntax: /snapshot.cgi [user = & pwd =?]

Parameters: None

## videostream.cgi

Description: ipcamera in server push model to the Client Push JPEG video streams

Certification: Guest

Syntax: /videostream.cgi [user = & pwd =?]

Parameters:

Remarks:

## livestream.cgi

Description: HTTP request 264 yards way or JPEG stream flow

Permissions: Visitors

Syntax:

Usage: get /livestream.cgi?user=&pwd=&streamid=&filename=

user: username

pwd: password

streamid:

0-> main rate

1-> sub rate

2-> capture jpeg

3-> sub jpeg

4-> record play

16-> stop livestream (for p2p livestream stop)

Filename:

Functions during playback

IPCAM data returned for the following:

Media streaming data: data header + media data

Header as follows:

Char type 0-> 264 of vdieo I frame

P-frame 1-> 264

2-> no

3-> jpeg

0x20-> said the motion alarm,

0x21-> represents GPIO alarm

0x22-> indicates that the mobile alarm disarm

0x23-> represents GPIO alarm disarm

200-> represents the user or password is incorrect

201-> represents the maximum number of user connections

202-> said they did not support the requested type

203-> represents video loss

204-> Authentication error

char size:

0-> 640x480

1-> 320x240

2-> 160x120;

3-> 1280x720

4-> 640x360

5-> 1280x960

unsigned short militime milliseconds

unsigned int sectime seconds

unsigned int len ​​data length

unsigned int frameno frame number

## audiostream.cgi

Description: HTTP request way intercom audio stream or data that come along

Permissions: Visitors

Syntax:

Usage: get /audiostream.cgi?user=&pwd=&streamid=

user: username

pwd: password

streamid:

0-> pcm

1-> adpcm

2-> mp3

3-> ogg

4-> aac

IPCAM data returned for the following:

Media streaming data: data header + media data

Header as follows:

Char type 0-> pcm

1-> adpcm

2-> mp3

3-> ogg

4-> acc

200-> represents the user or password is incorrect

201-> represents the maximum number of user connections

202-> said they did not support the requested type

204-> Authentication error

char size:

unsigned short militime milliseconds

unsigned int sectime seconds

unsigned int len ​​data length

unsigned int frameno frame number

Intercom Data:

Client data is sent over the following:

Media streaming data: data header + media data

Header as follows:

Char type

8-> talk audio (ADPCM), refers the client to send over along this channel audio data

char size:

unsigned short militime milliseconds

unsigned int sectime seconds

unsigned int len ​​data length

unsigned int frameno frame number

Back to adpcm data

## RTSP streaming

Description: ipcamera send h264 streaming audio and video data formats, so support for H264 and RTSP streaming player. Push

Recommended use vlc media play 0.8.6c / mplayer / quicktime. You can also directly use the phone supports H264

And RTSP streaming player

Syntax: image sharing rate and bit rate encoding size to take on a media operation

Parameters:

Note: Some versions do not support, and programs Contact

# SET related CGI

## reboot.cgi

Description: Reboot Device

Certification: Managers

Syntax: /reboot.cgi [user = & pwd = & next\_url =?]

restore\_factory.cgi

Description: Restore factory settings

Certification: Managers

Syntax: /restore\_factory.cgi [user = & pwd = & next\_url =?]

## set\_factory\_param.cgi

Description: Set the default factory values

Certification: Managers

Syntax:

/set\_factory\_param.cgi?user=&pwd=&deviceid=&mac=&wifimac=&server=&port=&username=

& Userpwd = & hearbeat = & serviceindex = & mode =]

deviceid: Device ID

mac: mac address

server: ddns server

username: ddns account

userpwd: ddns password

hearbeat: heartbeat interval

serviceindex: Manufacturers No.

mode: Part dns mode

wifimac: wifi MAC address

2, PTZ parameters

## decoder\_control.cgi

Description: decoder control

Certification: Managers

Syntax:

/decoder\_control.cgi?command=&onestep=&sit=&user=&pwd=&next\_url=

Parameters:

onestep = 0: PTZ operation indicates a single-step operation is stopped, only for the model comes ptz function and is applicable only

In the upper, lower, left and right operation.

command: command decoder:

Code Command word description

|  |  |  |
| --- | --- | --- |
| **Code** | **Command** | **Description** |
| CMD\_PTZ\_UP | 0 |  |
| CMD\_PTZ\_UP\_STOP | 1 |  |
| CMD\_PTZ\_DOWN | 2 |  |
| CMD\_PTZ\_DOWN\_STOP | 3 |  |
| CMD\_PTZ\_LEFT | 4 |  |
| CMD\_PTZ\_LEFT\_STOP | 5 |  |
| CMD\_PTZ\_RIGHT | 6 |  |
| CMD\_PTZ\_RIGHT\_STOP | 7 |  |
| CMD\_PTZ\_CENTER | 25 |  |
| CMD\_PTZ\_UP\_DOWN | 26 | Repeat up down |
| CMD\_PTZ\_UP\_DOWN\_STOP | 27 |  |
| CMD\_PTZ\_LEFT\_RIGHT | 28 | Repeat left right |
| CMD\_PTZ\_LEFT\_RIGHT\_STOP | 29 |  |
| CMD\_PTZ\_PREFAB\_BIT\_SET0 | 30 | Set a preset position |
| CMD\_PTZ\_PREFAB\_BIT\_RUN0 | 31 | Calls a preset position |
| …. |  |  |
| CMD\_PTZ\_PREFAB\_BIT\_SETF | 60 | set 16 presets |
| CMD\_PTZ\_PREFAB\_BIT\_RUNF | 61 | preset call 16 |
| CMD\_PTZ\_LEFT\_UP | 90 |  |
| CMD\_PTZ\_RIGHT\_UP | 91 |  |
| CMD\_PTZ\_LEFT\_DOWN | 92 |  |
| CMD\_PTZ\_RIGHT\_DOWN | 93 |  |
| CMD\_PTZ\_IO\_HIGH | 94 | IO output high |
| CMD\_PTZ\_IO\_LOW | 95 | IO Output Low |
| CMD\_PTZ\_MOTO\_TEST | 255 | test motor |

3, the basic parameters of the device

## camera\_control.cgi

Description: Image Sensor parameter control

Permissions: Guest

Syntax: /camera\_control.cgi?param = & value = & user = & pwd = & next\_url =

Parameters:

param: Parameter Type

value: the parameter values

|  |  |
| --- | --- |
| **Param** | **Value** |
| 0: Main stream resolution  Note: Only the main branch resolution  Holding two kinds of resolutions | 0: 720P 1: VGA, if it is HD  0: VGA 1: QVGA, if it is SD |
| 1: Brightness | 0 to 255 |
| 2: Contrast | 0 to 255 |
| 3: Mode | 0: 50hz  1: 60hz  2: Outdoor |
| 5: Rotation | 0: Original  1: Flip Vertical  2: Horizontal Mirror  3: Flip Vertical + Horizontal Mirror |
| 6: Main stream frame rate | 1-30fps |
| 7: restore color defaults | to restore the default color values |
| 8: Saturation | 0-255 |
| 9: Color | 0-255 |
| 10: OSD display | display OSD |
| 11: secondary stream resolution | 0: Master Resolution 1/2  1: Master resolution 1/4 |
| 12: secondary stream frame rate | maximum frame rate of 1/1 1/2 1/4 1/8 |

11: secondary stream resolution 0: Master Resolution 1/2 1: Master resolution 1/4

12: secondary stream frame rate maximum frame rate of 1/1 1/2 1/4 1/8

## set\_datetime.cgi

Description: Set the device date and time parameters

Certification: Administrator

Syntax: /set\_datetime.cgi tz = & ntp\_enable = & ntp\_svr = & now = & loginuse = & loginpas = & next\_url =?

Parameters:

now from 1970-1-10: 0: 0 to specify the number of seconds elapsed time, such as the additional

Parameter, the device is based on this time correction when

tz time zone settings: Standard and seconds deviation GMT

ntp\_enable 0: ntp school is disabled; 1: Enable

ntp\_svr ntp server, length <= 64

## set\_users.cgi

Description: Set the device user parameters

Certification: Administrator

Syntax:

/set\_users.cgi?user1=&pwd1=&user2=&pwd2=&user3=&pwd3=&loginuse=&loginpas=&ne

xt\_url =

Parameters:

Note: user1 user2 for visitors to the operator user3 for administrators

user1 user a name, length <= 8

pwd1 user a password length <= 8

...

8 User3 user name

8 Pwd3 user password

## set\_devices.cgi

Description: Set multiple device parameters

Certification: Administrator

Syntax:

/set\_devices.cgi?dev2\_alias=&dev2\_host=&dev2\_port=&dev2\_user=&dev2\_pwd=&

dev3\_alias = & dev3\_host = & dev3\_port = & dev3\_user = & dev3\_pwd = & dev4\_alias = & dev4\_host

= & Dev4\_port = & dev4\_user = & dev4\_pwd = & loginuse = & loginpas = & next\_url =

Parameters:

dev2\_alias second road device alias, length <= 16

dev2\_host second road device address, length <= 64

dev2\_port second road device port

dev2\_user second device access road users, length <= 8

dev2\_pwd second road equipment access password length <= 8

...

dev4\_alias fourth road device aliases

dev4\_host fourth road device address

dev4\_port fourth road device port

dev4\_user fourth device access road users

dev4\_pwd fourth road equipment access password

## set\_network.cgi

Description: Set the device basic network parameters

Certification: Administrator

Syntax:

/set\_network.cgi?ipaddr=&mask=&gateway=&dns=&port=&rtsport=&loginuse=&loginpas=&ne

xt\_ur =

Parameters:

ipaddr ip address

mask subnet mask

gateway Gateway

dns1 dns server

dns2 dns server

Set dhcp dhcp

port port

## set\_wifi.cgi

Description: Set the device parameters wifi

Authentication: User password verification

Syntax:

/set\_wifi.cgi?enable=&ssid=&encrypt=&defkey=&key1=&key2=&key3=&key4=

& Authtype = & keyformat = & key1\_bits = & key2\_bits = & key3\_bits = & key4\_bits = & channel = & m

ode = & wpa\_psk = & loginuse = & loginpas = & next\_url =

Parameters:

enable 0: ban wifi; 1: Allow

To join wifi network ssid ssid, length <= 40

channel reserved = 5

mode Wifi mode

Authtype 0: prohibit certification; 1: wep; 2: wpa tkip; 3: wpa aes; 4:

wpa2 aes; 5: wpa2 tkip + aes

encrypt wep check mode, 0: open; 1: share

keyformat wep key format, 0:16 hexadecimal digits; 1: ascii characters

defkey wep the key selection: 0-3

key1 wep key 1, length <= 30

key2 wep key 2

key3 wep key 3

key4 wep key 4

key1\_bits wep key a length, 0: 64 bits; 1: 128 bits

key2\_bits wep key length 2, 0: 64 bits; 1: 128 bits

key3\_bits wep key 3 lengths, 0: 64 bits; 1: 128 bits

key4\_bits wep key length 4, 0: 64 bits; 1: 128 bits

wpa\_psk wpa psk key length <= 64

## set\_pppoe.cgi

Description: Set the device options pppoe <some models have>

Certification: Administrator

Syntax: /set\_pppoe.cgi enable = & user = & pwd = & mail\_ip = [& loginuse = & loginpas = & next\_url =]?

Parameters:

enable 0: ban pppoe; 1: Allow

user pppoe dial-up users, length <= 64

pwd pppoe dial-up password length <= 64

## set\_upnp.cgi

Description: Set the device upnp options

Authentication: User password verification

Syntax: /set\_upnp.cgi enable = [& loginuse = & loginpas = & next\_url =]?

Parameters:

enable 0: ban upnp mapping function; 1: Enable

## set\_ddns.cgi

Description: Set the device ddns options

Authentication: User password verification

Syntax:

/set\_ddns.cgi?

service = & user = & pwd = & host = & proxy\_svr = & proxy\_port = [& restart\_dyndns = & loginuse = & lo

ginpas = & next\_url =]

Parameters:

service 0: ban ddns service

1: peanut shells (not supported)

2: DynDns.org (dyndns)

3: DynDns.org (statdns)

4: DynDns.org (custom)

5: Reserved

6: Reserved

7: Reserved

8: 3322 (dyndns)

9: 3322 (statdns)

10: 9299

11: manufacturers own

12: manufacturers own

user ddns users, length <= 64

pwd ddns password length <= 64

host ddns domain name, length <= 64

proxy\_svr proxy server address, length <= 64

Ddns\_mode part dns desired mode

proxy\_port proxy port

## set\_ftp.cgi

Description: Set the device ftp options

Authentication: User password verification

Syntax:

/set\_ftp.cgi?svr=&port=&user=&pwd=&mode=&dir= [& loginuse = & loginpas = & next\_url =]

Parameters:

svr ftp server address, length <= 64

port ftp server port

user ftp server login user, length <= 64

pwd ftp server login password length <= 64

dir ftp storage directory on the server, length <= 64

mode 0: port mode; 1: pasv mode

Filename ftp filename

## set\_mail.cgi

Description: Set the device mail options

Authentication: User password verification

Syntax:

/set\_mail.cgi?svr=&user=&pwd=&sender=&receiver1=&receiver2=&receiver3=&receiver4

& Ssl = & = [& loginuse = & loginpas = & next\_url =]

Parameters:

svr mail server address, length <= 64

sort mail service port

user mail server login user, length <= 64

expressed support ssl ssl certification

pwd mail server login password length <= 64

Sender The sender of the message, the length of <= 64

receiver1 a mail recipient, length <= 64

receiver2 mail recipient 2, length <= 64

receiver3 mail recipients 3, length <= 64

receiver4 mail recipient 4, length <= 64

mail\_inet\_ip mail notification IP, 0-> indicates that no, 1> expressed the need

## set\_alarm.cgi

Description: Set the device alarm options

Certification: Administrator

Syntax:

/set\_alarm.cgi?motion\_armed=&motion\_sensitivity=&input\_armed=&iolinkage=&mail=&u

pload\_interval = & preset = & schedule\_enable = & snapshot = & snapshot = & schedule\_sun\_0 = & sch

edule\_sun\_1 = & schedule\_sun\_2 = & schedule\_mon\_0 = & schedule\_mon\_1 = & schedule\_mon\_2

= & Schedule\_tue\_0 = & schedule\_tue\_1 = & schedule\_tue\_2 = & schedule\_wed\_0 = & schedule\_we

d\_1 = & schedule\_wed\_2 = & schedule\_thu\_0 = & schedule\_thu\_1 = & schedule\_thu\_2 = & schedule

\_fri\_0 = & schedule\_fri\_1 = & schedule\_fri\_2 = & schedule\_sat\_0 = & schedule\_sat\_1 = & schedule\_

sat\_2 = [& ioin\_level = & ioout\_level = & preset = & loginuse = & loginpas = & next\_url =]

Parameters:

motion\_armed 0: motion detection disarm; 1: Arms

motion\_sensitivity 0-9: High - Low

input\_armed 0: input detection disarm; 1: Arms

ioin\_level io input alarm trigger level, 0: Low, 1: High

iolinkage 0: io linkage alarm is disabled; 1: Enable

alarmpresetsit 0: ban preset alarm linkage; Other: preset alarm linkage

Position

ioout\_level io linkage output level 0: Low, 1: High

mail 0: e-mail notification when the alarm is prohibited; 1-5: photograph number of sheets

snapshot 0: forbidden to take pictures 1-5: photograph number of sheets <some models support>

record 0: ban Recording 1: Recording <some models support>

Upload upload\_interval alarm number of photographs, 0: Disable, 1-5 Zhang

schedule\_enable whether to adopt the deployment plan

schedule\_sun\_0 deployment plan Sunday, 24 hours a day by hour by 15 minutes

Arm 96 is divided into periods.

bit0-95: 0: The time is not armed; 1: Arming the period

schedule\_sun\_1

schedule\_sun\_2

schedule\_mon\_0

schedule\_mon\_1

schedule\_mon\_2

schedule\_tue\_0

schedule\_tue\_1

schedule\_tue\_2

schedule\_wed\_0

schedule\_wed\_1

schedule\_wed\_2

schedule\_thu\_0

schedule\_thu\_1

schedule\_thu\_2

schedule\_fri\_0

schedule\_fri\_1

schedule\_fri\_2

schedule\_sat\_0

schedule\_sat\_1

schedule\_sat\_2

## set\_misc.cgi

Description: Miscellaneous parameter settings of the camera

Certification: Administrator

Syntax:

/

set\_misc.cgi? [led\_mode = & ptz\_center\_onstart = & ptz\_auto\_patrol\_interval = & ptz\_auto\_patrol\_type

= & Ptz\_preset = & ptz\_run\_times = & loginuse = & loginpas = & next\_url =]

Parameters:

led\_mode: 0: Mode 1; 1: Mode 2; 2: Turn off the lights

ptz\_center\_onstart: = 1, after starting center

ptz\_auto\_patrol\_interval: Set automatic inspection interval 0: No automatic inspection

ptz\_run\_times: patrol laps, 0: infinity

ptz\_patrol\_rate: PTZ speed manual, 0-10,0: fastest

ptz\_patrol\_up\_rate: Up Auto Cruising speed: 0-10,0: slowest

ptz\_patrol\_down\_rate: Down Auto Cruising speed: 0-10,0: slowest

ptz\_patrol\_left\_rate: Left Auto Cruising speed: 0-10,0: slowest

ptz\_patrol\_right\_rate: Right Auto Cruising speed: 0-10,0: slowest

disable\_preset: Enable preset, 1: Disable the preset position

call ptz\_preset :: start preset enabled, 0 start center, 1-16 represents the corresponding preset call

However, after disabling the preset position, when not forced to call the preset start

## wifi\_scan.cgi

Description: Commands the camera search for wireless networks

Certification: Administrator

Syntax: / wifi\_scan.cgi & next\_url = wireless.htm

Parameters: None

## test\_mail.cgi

Description: Get the mail function test results

Certification: Administrator

Syntax: /test\_mail.cgi next\_url =?

Returns:

result: Test Results

0: Success

-1: Failed

## mailtest.cgi

Description: The mail function test

Certification: Administrator

Syntax: / mailtest.cgi next\_url =?

result: Test Results

0: Success

-1: Failed

## del\_file.cgi

Description: delete a specific video files

Certification: Administrator

Syntax:? / Del\_file.cgi name =

name: file name (as for "all": Deletes all)

<Some models support>

## ftptest.cgi

Description: ftp function test

Permissions: Administrator

Syntax: /test\_ftp.cgi next\_url =?

Returns:

result: Test Results

0: Success

-1: Can not connect to server

## set\_default.cgi

Description: The current setting is set to factory defaults

Certification: Administrator

Syntax:

/ Set\_default.cgi? & Loginuse = & loginpas = & next\_url =

## set\_media.cgi

Description: Set Media

Certification: Administrator

Syntax: set up media streaming

<Some models support>

Main stream:

/set\_media.cgi?mainrate=0&enc\_size

& = Enc\_framerate = & enc\_keyframe = & enc\_quant = & enc\_ratemode & = & enc\_bitrate = & enc\_ma

in\_mode = & loginuse = & loginpas =

Secondary stream:

/set\_media.cgi?mainrate=1&sub\_enc\_size & = sub\_enc\_framerate = & sub\_enc\_keyframe = &

sub\_enc\_quant = & sub\_enc\_ratemode & = & sub\_enc\_bitrate = &

sub\_enc\_main\_mode = & loginuse = & loginpas =

Main stream

mainrate: 0-> represents the main rate 1-> represents the second rate

enc\_size: main rate representation can not be changed

enc\_bitrate: represents the stream

enc\_ratemode: represents the stream mode 0 for CBR 1: representation is VBR

enc\_keyframe: represent keyframes, recommendation 50, range 25-200

enc\_quant: image quality, range 2-50, Recommendation 30

enc\_framerate: frame rate

Secondary stream:

sub\_enc\_size: 0-> 1/2 1-> 1/4

sub\_enc\_bitrate: represents the stream

sub\_enc\_ratemode: represents the stream mode 0 for CBR 1: representation is VBR

sub\_enc\_keyframe: represent keyframes, recommendation 50, range 25-200

sub\_enc\_quant: image quality, range 2-50, Recommendation 30

sub\_enc\_framerate: frame rate

mainmode: 0-> parameter representation into a useful representation take 1-10 System Customization

submode: 0-> parameter representation into useful, 1-10 represents systematic Custom

## set\_recordsch.cgi

Description: Set video program

Certification: Administrator

Syntax: Set video program

Some models support

/set\_recordsch.cgi?

& Record\_cover = & recorsize = '& recordfilemode = & time\_schedule\_enable = & schedule\_sun\_0 =

& Schedule\_sun\_1 = & schedule\_sun\_2 = & schedule\_mon\_0 = & schedule\_mon\_1 = & schedule\_m

on\_2 = & schedule\_tue\_0 = & schedule\_tue\_1 = & schedule\_tue\_2 = & schedule\_wed\_0 = & schedule

\_wed\_1 = & schedule\_wed\_2 = & schedule\_thu\_0 = & schedule\_thu\_1 = & schedule\_thu\_2 = & sche

dule\_fri\_0 = & schedule\_fri\_1 = & schedule\_fri\_2 = & schedule\_sat\_0 = & schedule\_sat\_1 = & sched

ule\_sat\_2 = & loginuse = & loginpas =

record\_cover: video coverage

recordsize: Video length or video file length

recordfilemode: video file length control mode

time\_schedule\_enable: Schedule

schedule\_sun\_0 = &

schedule\_sun\_1 = &

schedule\_sun\_2 = &

schedule\_mon\_0 = &

schedule\_mon\_1 = &

schedule\_mon\_2 = &

schedule\_tue\_0 = &

schedule\_tue\_1 = &

schedule\_tue\_2 = &

schedule\_wed\_0 = &

schedule\_wed\_1 = &

schedule\_wed\_2 = &

schedule\_thu\_0 = &

schedule\_thu\_1 = &

schedule\_thu\_2 = &

schedule\_fri\_0 = &

schedule\_fri\_1 = &

schedule\_fri\_2 = &

schedule\_sat\_0 = &

schedule\_sat\_1 = &

schedule\_sat\_2 = &

alarm\_sun\_0 = &

alarm\_sun\_1 = &

alarm\_sun\_2 = &

alarm\_mon\_0 = &

alarm\_mon\_1 = &

alarm\_mon\_2 = &

alarm\_tue\_0 = &

alarm\_tue\_1 = &

alarm\_tue\_2 = &

alarm\_wed\_0 = &

alarm\_wed\_1 = &

alarm\_wed\_2 = &

alarm\_thu\_0 = &

alarm\_thu\_1 = &

alarm\_thu\_2 = &

alarm\_fri\_0 = &

alarm\_fri\_1 = &

alarm\_fri\_2 = &

alarm\_sat\_0 = &

alarm\_sat\_1 = &

alarm\_sat\_2 = &

alarm\_mon\_0 = -11 &

alarm\_wed\_0 = -1 &

alarm\_wed\_1 = -1 &

alarm\_wed\_2 = -1

## set\_dns.cgi

Description: Sets the factory's own DNS start or not

Authentication: User password verification

Syntax:

enable: 1-> Xu manufacturers charge dns running, 0-> prohibit running

Usage: /set\_dns.cgi loginuse = & loginpas = & enable = & next\_url =?

In get\_status.cgi which contains var dnsenable = 0; means that when its state

## set\_alarmlog.cgi

Description: Delete the alarm log

Certification: Administrator

Syntax:

Usage: /set\_log.cgi loginuse = & loginpas = & next\_url =?

## comm\_write.cgi

Description: write data to the serial port

Permissions: Administrator

Syntax:

Some models support

Usage:? /comm\_write.cgi Addr = & buad = & byte = & data = & loginuse = & loginpas = &

Addr: rs485 address

Buad: Baud Rate

1: 1200

2: 2400

3: 4800

4: 9600

5: 19200

6: 38400

7: 57600

8: 115200

When writing data, please buad set to 0, is not zero, indicating that configure the baud rate and address bits

## Get\_status.cgi

var rs485addr indicates the address bits

var rs485baud for a baud rate

## set\_gpio\_ir.cgi

Description: Set IR

Certification: Administrator

Syntax:? /set\_gpio\_ir.cgi Val = & loginuse = & loginpas =

val: ir state

## set\_formatsd.cgi

Description: Format sd card

Certification: Administrator

Syntax: /set\_formatsd.cgi next\_url = & loginuse = & loginpas =?

Some models support

## set\_rtsp.cgi

Description: Set rtsp Certification Services

Certification: Administrator

Syntax:? /set\_rtsp.cgi User = & pwd = & enable = & next\_url =

user: Authentication Username

pwd: password authentication

enable: whether to start certification