

# IP Camera CGI V1.21

Version	Editor	Date	Modify
1.0	Maverick Gao	2007-11-21	system software x.x.1.2
1.01	Maverick Gao	2008-07-25	system software x.x.1.17 <ul style="list-style-type: none"> <li>● get_params.cgi add parameter: wifi_channel、wifi_authtype、wifi_keyformat、wifi_key1_bits、wifi_key2_bits、wifi_key3_bits、wifi_key4_bits。</li> <li>● set_wifi.cgi add parameter: channel、authtype、keyformat、key1_bits、key2_bits、key3_bits、key4_bits。</li> <li>● modify snapshot.cgi, add authentication method: use username and password in param directly</li> <li>● add videostream.cgi</li> </ul>
1.02	Maverick Gao	2008-08-06	system software x.x.1.18 <ul style="list-style-type: none"> <li>● modify camera_control.cgi, add PT control</li> </ul>
1.03	Maverick Gao	2009-01-07	system software x.x.1.32
1.04	Maverick Gao	2009-02-07	system software x.x.1.33 chang motion detection sensibility add alarm scheduler related param
1.05	Maverick Gao	2009-04-29	system software x.x.1.39 add videostream.asf in videostream.cgi add resolution param
1.06	Maverick Gao	2009-06-13	system software x.x.1.41 in decoder_control.cgi add onestep param add comm_write.cgi add set_forbidden.cgi add get_forbidden.cgi add set_misc.cgi add get_misc.cgi add set_decoder.cgi in get_params.cgi add param : decoder_baud
1.07	Maverick Gao	2009-06-19	system software x.x.1.42 in set_misc.cgi get_misc.cgi param added: ptz_patrol_rate, ptz_patrol_up_rate, ptz_patrol_down_rate, ptz_patrol_left_rate, ptz_patrol_right_rate
1.08	Maverick Gao	2009-08-03	system software x.x.1.43 add wifi_scan.cgi add get_wifi_scan_result.cgi add get_log.cgi

1.09	Maverick Gao	2009-08-22	system software x.x.1.44 modify get_wifi_scan_result.cgi return value
1.10	Maverick Gao	2009-09-25	system software x.x.2.2 in get_params.cgi add param of alarm_ioin_level, alarm_ioout_level in set_pppoe.cgi modify user and pwd 's longest character as 64 in set_ddns.cgi modify user, pwd, host, proxy_svr 's longest character as 64 in set_mail.cgi modify svr, user, pwd, sender, receiver1, receiver2, receiver3, receiver4 's longest character as 64 in set_alarm.cgi add param of ioin_level, ioout_level add check_user.cgi add backup_params.cgi add restore_params.cgi
1.11	Maverick Gao	2009-10-07	system software x.x.2.2 add set_mac.cgi
1.12	Maverick Gao	2010-04-26	system software x.x.2.17 modify get_misc.cgi and set_misc.cgi param description in get_params.cgi and set_alarm.cgi add alarm_http related param(system software x.x.2.12) in videostream.cgi and videostream.asf add param of rate in get_params.cgi and set_ftp.cgi add param of ftp_filename and ftp_numberoffiles
1.13	Maverick Gao	2010-05-26	system software x.x.2.20 modify get_params.cgi and set_ddns.cgi param description modify get_status.cgi param description add set_factory_ddns.cgi add get_factory_ddns.cgi add restore_factory_ddns.cgi
1.14	Maverick Gao	2010-06-03	system software x.x.2.21 modify decoder_control.cgi param description modify get_params.cgi param description modify set_alarm.cgi param description
1.15	Maverick Gao	2010-08-17	system software x.x.2.27 modify set_misc.cgi param description modify get_misc.cgi param description modify get_params.cgi and set_mail.cgi param description, add param of tls modify test_mail.cgi return value

1.16	Maverick Gao	2010-09-03	system software x.x.2.28 add decoder_control.cgi with param of degree
1.17	Maverick Gao	2010-09-27	system software x.x.2.29 modify get_params.cgi param description , add alarm_motion_compensation、daylight_saving_time、ftp_schedule_enable、ftp_schedule series param modify set_ftp.cgi param description , add schedule_enable、schedule param modify set_datetime.cgi param description , add daylight_saving_time param modify set_alarm.cgi param description , add motion_compensation param modify set_misc.cgi param description , add ptz_preset_onstart param modify get_misc.cgi param description , add ptz_preset_onstart param
1.18	Maverick Gao	2010-11-20	system software x.x.2.32 modify get_params.cgi param description , add msn_user、msn_pwd series param add set_msn.cgi add get_status.cgi return param msn_status
1.19	Maverick Gao	2010-12-07	system software x.x.2.34 modify get_params.cgi param description,add msn_friend series param modify set_msn.cgi param, add friend series param modify set_ddns.cgi 、 get_params.cgi 、 get_factory_ddns.cgi and set_factory_ddns.cgi ' s ddns param description。 modify get_status.cgi return ddns_status param description
1.20	Maverick Gao	2011-3-3	system software x.x.2.37 add set_factory_params.cgi
1.21	Maverick Gao	2011-3-30	system software x.x.2.38 add set_extra_io.cgi
1.22	Maverick Gao	2011-5-23	system software x.x.2.40 modify get_params.cgi param description,add dhcp_vendor param modify set_network.cgi param description , add dhcp_vendor param
1.23	Maverick Gao	2011-6-25	system software x.x.2.40 modify get_parames.cgi , set_ddns.cgi, get_status.cgi add easynet platform
1.24	Maverick Gao	2011-7-1	system software x.x.2.41 modify get_parames.cgi , set_alarm.cgi ,

			get_status.cgi add voice motion detection content
1.25	Maverick Gao	2011-7-18	system software x.x.2.41 In get_status.cgi add wifi_status
1.26	Maverick Gao	2011-8-11	system software x.x.2.42 In get_params.cgi and set_wifi.cgi add wifi_country param
1.27	Maverick Gao	2011-9-17	system software x.x.2.43 modify ddns param description add ftp_retain param

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## ip camera cgi introduction

Here CGI is based on http protocol port, Client Procedure (could be internet page on web or other procedure) can perform various operations on the device by the CGI

- cgi security authentication: the cgi listed below all need security authentication when visit. Besides, different cgi port require different permission, there are three level permission: visitor,operator and administrator. But the permission is decided by the user of device. Specific security authentication mechanism supported in two ways: in http protocol, the Basic security authentication mechanism、in cgi param, add username and password directly. The way to visit cgi: compare with all http method, the cgi listed in this article only support get and post. Among them, the upgrade\_firmware.cgi and upgrade\_htmls.cgi only support post, and others only support get.

Get example:

```
<form action="/set_mail.cgi">
  <input name="svr">
  <input name="user">
  <input name="pwd">
  <input name="sender">
  <input name="receiver1">
  <input name="receiver2">
    <input name="receiver3">
    <input name="receiver4">
  <input type="hidden" name="next_url" value="index.htm">
  <input type="submit" value="ok">
</form>
```

Post example:

```
<form      action="upgrade_firmware.cgi?next_url=index.htm"      method="post"
enctype="multipart/form-data">

<input type="file" name="file" size="20">
</form>
```

- cgi's return: according the different return information, this article divide the cgi into two kinds:
  - ✓ The cgi to obtain device status and param, include get\_status.cgi and get\_params.cgi. they return include device status and para' text, the specific format seems like javascript Variable definition, to define all the device status or param as variable then return, such as :
  - ✓ var id='003456789A0A';  
var sys\_ver='0.0.1.2';  
var app\_ver='0.0.1.3';



```
var alias="";  
var now=1195552193;  
var tz=0;  
var ntp_enable=1;  
var ntp_svr='time.nist.gov';
```

- ✓ the cgi to set device param or perform operatering. This kind cgi will return text information include operatering result, such as it will returen “ok” if success; and return exact error information if faild, such as :“error: illegal param” indicate that cgi’s param has mistake。 Besides, if you don’t want to the cgi only return “ok” text when succeed but a file. In this case, you can add one param into cgi param url: next\_url. The parameter that corresponds to the operation is successful jump to the next file, note that must be a relative path.

## Check\_user.cgi

Description: obtain current user’s verify result

Permission: visitor

Grammar: /check\_user.cgi[?user=&pwd=]

Return:

user: current user

pwd: current password

pri: current permission

1: visitor

2: operator

3: administrator

## snapshot.cgi

Description: obtain current snapshot

Permission: visitor

Grammar: /snapshot.cgi[?user=&pwd=&next\_url=]

param:

next\_url: snapshot filename

Description:

- 0 if not add extra next\_url param, return snapshot’s filename: device id(device aliasname)\_current time.jpg, otherwise, its filename will be one that next\_url specify.

## Videostream.cgi

Description: ipcamera use server push mode to send client-end the jpeg video stream.

Permission: visitor

Grammar: /videostream.cgi[?user=&pwd=&resolution=&rate=]

Param:

resolution: image resolution (8: 320\*240, 32: 640\*480)

rate: image data translate speed, value rang 0-23

0: full speed

1: 20 fps

3: 15 fps

6: 10 fps

11: 5 fps

12: 4 fps

13: 3 fps

14: 2 fps

15: 1 fps

17: 1 fp/2s

19: 1 fp/3s

21: 1 fp/4s

23: 1 fp/5s

## videostream.asf

Description: ipcamera send asf, currently only support vlc player and mplayer

Permission: visitor

Grammar: /videostream.asf[?user=&pwd=&resolution=&rate=]

Param:

resolution: image resolution (8: 320\*240, 32: 640\*480)

rate: image data translate speed, value rang 0-23

0: full speed

1: 20 fps

3: 15 fps

6: 10 fps

11: 5 fps

12: 4 fps

13: 3 fps

14: 2 fps

15: 1 fps

17: 1 fp/2s

19: 1 fp/3s

21: 1 fp/4s

23: 1 fp/5s

## get\_status.cgi

Description: obtain device status

Permission: N/A

Grammar: /get\_status.cgi

Return:

id: device id

sys\_ver: firmware version

app\_ver: webpage gui version

alias: aliasname

now: the lapse second from 1970-1-1 0:0:0 to device current time.

Tz: device current time zoon setting and the number of seconds deviation of GMT

alarm\_status: device current alarm status, 0: no alarm; 1: motion detection alarm; 2:

input alarm; 3: voice detection alarm

ddns\_status: current ddns status of device.

0	No Action
1	It's connecting
2	Can not connect serve
3	Dyndns succeed
4	Dyndns failed: system error
5	Dyndns failed : incorrect username or password
6	Dyndns failed: need credited user
7	DynDns failed: illegal host format
8	DynDns failed: the host doesn't exist
9	DynDns failed: the host doesn't belong to you
10	DynDns failed: too many or too few host
11	DynDns failed: the host is blocked as abusing
12	DynDns failed: serve error
13	DynDns failed: bad reply from serve
14	Oray failed: bad reply from serve
15	Oray failed: incorrect username or password
16	Oray failed: incorrect host
17	Oray succeed
18 ..	Reserve
28	
29	3322 succeed
30	3322 failed: system error
31	3322 failed: incorrect username or password

32	3322 failed: need credited user
33	3322 failed: illegal host format
34	3322 failed: the host doesn't exist
35	3322 failed: the host doesn't belong to you
36	3322 failed: too many or too few host
37	3322 failed: the host is blocked as abusing
38	3322 failed: serve error
39	3322 failed: bad reply from serve
40 ..	Reserve
42	
100	MintDNS succeed
101	MintDNS failed: unknow error
102	MintDNS failed: system error
103	MintDNS failed : incorrect username or password
104	MintDNS failed: need credited user
105	MintDNS failed: the host doesn't exist
106	MintDNS failed: serve error
200	9299 succeed
201	9299 failed: unknow error
202	9299 failed: second level host expired
203	9299 failed: second level host not activated
204	9299 failed: second level host information error (incorrect username or password)
205	9299 failed: first level host not exist
300	EasyNet succeed
301	EasyNet failed: no permission
302	EasyNet failed: account not exist
303	EasyNet failed: account expired
304	EasyNet failed: account prohibited
305	EasyNet failed: param error
306	EasyNet failed: unknow error

ddns\_host: ddns Host name

oray\_type: oray service type, 0: standard; 1: professional

wifi\_status: wifi status, 0: wired connected, 1: wifi connected

upnp\_status: current device upnp operator status.

0	No Action
1	Succeed
2	Device system error
3	Error in network communication
4	Error in chat with Upnp device
5	Rejected by UpnP device , maybe port conflict

msn\_status: msn satus

0	No action
1	Succeed
-1	Inner system error
-2	Can not connect serve
-3	Error in chat with serve
-4	TLS chat failed

## get\_camera\_params.cgi

Description: obtain camera param setting

Permission: visitor

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

Return:

resolution: resolution, 8: qvga; 32: vga

brightness: brightness, 0~255

contrast: contrast, 0~6

mode: mode, 0: 50hz; 1: 60hz; 2: outdoor

flip: 0: initial; 1: vertical rotate; 2: horizational rotate ; 3: vertical + horizontal rotate;

## decoder\_control.cgi

Description: decoder control

Permission: operator

Grammar: /decoder\_control.cgi?command=[&onestep=&degree=&user=&pwd=&next\_url=]

param:

onestep=1: indicate the PTZ control is one step then stop, it is only for camera with ptz originally and it is only for up ,down,left and right.

Degree: onestep device operator degree

Command: decoder control command

Value	485port extra connection pelco-d decoder.	Internal motor
0	up	up
1	stop up	stop up
2	down	down
3	stop down	stop down
4	left	left
5	stop left	stop left
6	right	right
7	stop right	stop right

8	Small aperture	
9	Stop small aperture	
10	Large aperture	
11	Stop large aperture	
12	Focus close	
13	Stop focus close	
14	Focus far	
15	Stop focus far	
16	Zoom close	
17	Stop zoom close	
18	Zoom far	
19	Stop zoom far	
20	Auto patrol	
21	Stop auto patro	
22	Close switch 1	
23	Disconnect switch1	
24	Close switch 2	
25	Disconnect switch 2	center
26	Close switch 3	Up & down patrol
27	Disconnect switch 3	Stop up & down patrol
28	Close switch 4	Left & right patrol
29	Disconnect switch 4	Stop Left & right patrol
30	Set preset1	Set preset 1
31	Go to preset1	Go to preset 1
...	...	...
60	Set preset 16	Set preset 16
61	Go to preset 16	Go to preset 16
...	...	
90	...	Upper left
91	...	Upper right
92	Set preset 32	Down left
93	Go to prese32	Down right
94	Io output high	Io output high
95	Io output low	Io output low
255		Motor test mode

## set\_extra\_io.cgi

Description: conntral the extra usage of pca8574 chip extension 8 io

Permission: Operator

[www.foscam.com](http://www.foscam.com)

Grammar: /set\_extra\_io.cgi?value=[&user=&pwd=&next\_url=]

Param:

value: io level value, bit0-bit7: io0-io7 high and low level value (1: high; 0: low)

return: succeed return ok

Note:

The current zoom lens the existing reuse the io4-io7

## Camera\_control.cgi

Description: to control camera sensor param

Permission: Operator

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

Param:

param: param type

value: param value

param	value
0: resolution	2: qqvga
	8: qvga
	32: vga
1: brightness	0~255
2: contrast	0~6
3: mode	0: 50hz
	1: 60hz
	2: outdoor
5: patrol	0: initial
	1: vertical patrol
	2: horizontal patrol
	3: vertical patrol + horizontal patrol

## reboot.cgi

Description: reboot device

Permission: administrator

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

## restore\_factory.cgi

Description: restore factory setting

Permission: administrator

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

## get\_params.cgi

Description: Obtain device setting param

Permission: administrator

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

Return:

id	Device id
sys_ver	Firmware version
app_ver	Webpage interfact version
alias	alias
now	the lapse second from 1970-1-1 0:0:0 to device current time.
tz	device current time zoon setting and the number of seconds deviation of GMT
daylight_saving_time	the number of seconds between Daylight Saving Time and standard time
ntp_enable	0: prohibit ntp timing; 1: permit
ntp_svr	Ntp serve
user1_name	user1 username
user1_pwd	user1 password
user1_pri	user1 permission , 0 : visitor ; 1 : operator ; 2 : administrator
...	
user8_name	user8username
user8_pwd	user 8 password
user8_pri	user 8 permission
dev2_alias	The second device alias name
dev2_host	The second device address
dev2_port	The second device port
dev2_user	The second device visitor username
dev2_pwd	The second device visitor password
...	
dev4_alias	The fourth device alias name
dev4_host	The fourth device address
dev4_port	The fourth device port
dev4_user	The fourth device visitor username
dev4_pwd	The fourth device visitor password
ip	ip address
mask	Subnet mask
gateway	Gateway



dns	Dns serve
dhcp_vendor	Dhcp vendor class id
port	port
wifi_enable	0: prohibit wifi function; 1: permit
wifi_ssid	Wifi ssid
wifi_channel	reserve
wifi_mode	reserve
wifi_encrypt	0: encryption prohibit; 1: wep encryption
wifi_authtype	wep Authentication, 0: open; 1: share
wifi_keyformat	wep Key Format, 0: 16 hexadecimal number; 1: ascii character
wifi_defkey	wep Default TX Key
wifi_key1	wep key1
wifi_key2	wep key 2
wifi_key3	wep key 3
wifi_key4	wep key 4
wifi_key1_bits	wep key 1 length, 0: 64 bits; 1: 128 bits
wifi_key2_bits	wep key 2 length, 0: 64 bits; 1: 128 bits
wifi_key3_bits	wep key 3 length, 0: 64 bits; 1: 128 bits
wifi_key4_bits	wep key 4 length, 0: 64 bits; 1: 128 bits
wifi_wpa_psk	wpa psk encryption
wifi_country	Area setting 0: North american 1- 11 channel 1: Europe, most area of world, 1-13 channel 2: 10-11 channel 3: 10-13 channel 4: 14 channel 5: Japan 1-14 channel 6: 3-9 channel 7: 5-13 channel
pppoe_enable	0: prohibit pppoe; 1: permit
pppoe_user	Pppoe dial user
pppoe_pwd	Pppoe dial password
upnp_enable	0: prohibit upnp port mapping; 1: permit
ddns_service	0: prohibit ddns service
	1: oray.cn
	2: DynDns.org(dyndns)
	3: DynDns.org(statdns)
	4: DynDns.org(custom)
	5: reserve
	6: reserve
	7: reserve
	8: 3322(dyndns)

	9: 3322(statdns)
	10: reserve
	11: reserve
	12: reserve
	13: MintDNS
	14: 9299.org
	15: easynet platform
ddns_user	Ddns username
ddns_pwd	Ddns password
ddns_host	Ddns host if service=14, like 9299.org , it is level one hostname setting if service=15, like easynet platform, it is alarm url setting, for example: http://xxx/api/alarm.aspx
ddns_proxy_svr	if service=13/14, like MintDNS/9299.org , it is visit URL setting , for example : http://www.dynddns.us/nic/update http://www.9299.org/upgengxin.asp if service=15, like easynet platform, it is update url setting, for example http://xxx/api/userip.aspx
ddns_proxy_port	if service=14, like 9299.org, it is mode setting
mail_svr	Mail serve address
mail_port	Mail serve port
mail_tls	If use tls transport protocol, 0: no; 1: TLS; 2: STARTLS
mail_user	Mail serve visit user
mail_pwd	Mail serve visit password
mail_sender	Mail sender
mail_receiver1	Mail receiver1
mail_receiver2	Mail receiver 2
mail_receiver3	Mail receiver 3
mail_receiver4	Mail receiver 4
mail_inet_ip	camera inet ip chang, if send notice email or not, 0: no; 1: yes
ftp_svr	ftp serve address
ftp_port	ftp serve port
ftp_user	ftp visit user
ftp_pwd	ftp serve visit password
ftp_dir	ftp serve upload folder
ftp_mode	0: port mode; 1: pasv mode
ftp_retain	0 : release connection after every time upload pictures; 1: remain connection when upload pictures
ftp_upload_interval	upload image interval(second), 0: prohibit
ftp_filename	ftp filename save

ftp_numberoffiles	ftp file quantity save
ftp_schedule_enable	If use upload scheduler or not
ftp_schedule_sun_0	Sunday upload scheduler, by 24hours everyday, by 15minuts every hour, to divide 96 motion scheduler period Bit0-95: 0: no upload in this period; 1: upload in this period
ftp_schedule_sun_1	
ftp_schedule_sun_2	
ftp_schedule_mon_0	
ftp_schedule_mon_1	
ftp_schedule_mon_2	
ftp_schedule_tue_0	
ftp_schedule_tue_1	
ftp_schedule_tue_2	
ftp_schedule_wed_0	
ftp_schedule_wed_1	
ftp_schedule_wed_2	
ftp_schedule_thu_0	
ftp_schedule_thu_1	
ftp_schedule_thu_2	
ftp_schedule_fri_0	
ftp_schedule_fri_1	
ftp_schedule_fri_2	
ftp_schedule_sat_0	
ftp_schedule_sat_1	
ftp_schedule_sat_2	
alarm_motion_armed	0: alarm_motion_armed; 1: armed
alarm_motion_sensitivity	0-9: high-low
alarm_motion_compensation	Enable alarm motion compensation or not when the light changes suddently, 0: no, 1: yes
alarm_input_armed	0: alarm_input_armed; 1: armed
alarm_ioin_level	alarm_ioin_level, 0: low; 1: high
alarm_sounddetect_armed	0: alarm_sounddetect_armed; 1: armed
alarm_sounddetect_sensitivity	alarm_sounddetect_sensitivity, 0-9: high-low
alarm_iolinkage	0: disable io linkage on alarm; 1: enable
alarm_preset	0: disable preset linkage on alarm; other: enable preset linkage on alarm
alarm_ioout_level	Io alarm_ioout_level, 0: low; 1: high
alarm_mail	0:disable sending mail on alarm; 1: enable
alarm_upload_interval	alarm_upload_interval (seconds) , 0: disable
alarm_http	0: diable alarm_http to inform; 1: enable
alarm_http_url	alarm http url
alarm_schedule_enable	Alarm schedule enable or not
alarm_schedule_sun_0	Sunday alarm plan.24hours/day.

alarm_schedule_sun_1	Divided 24hours to 96 time district,each district for 15 munites. bit0-95: 0: alarm unarmed at this bit; 1: alarm armed at this bit
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	
decoder_baud	decoder baud
msn_user	msn user
msn_pwd	msn password
msn_friend1	msn friend1
msn_friend2	msn friend 2
msn_friend3	msn friend 3
msn_friend4	msn friend 4
msn_friend5	msn friend 5
msn_friend6	msn friend 6
msn_friend7	msn friend 7
msn_friend8	msn friend 8
msn_friend9	msn friend 9
msn_friend10	msn friend 10

### upgrade\_firmware.cgi

description: upgrade firmware

permission: administrator

syntax: /upgrade\_firmware.cgi[?user=&pwd=&next\_url=]

note: This cgi must use 'post' method ,send the file in package which need to be upgraded

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to ip camera.

### **upgrade\_htmls.cgi**

description: upgrade webpage interface

permission: administrator

syntax: /upgrade\_htmls.cgi[?user=&pwd=&next\_url=]

note: This cgi must use 'post' method ,send the file in package which need to be upgraded to ip camera.

### **set\_alias.cgi**

description: set alias parameter

permission: administrator

syntax: /set\_alias.cgi?alias=[&user=&pwd=&next\_url=]

parameter:

alias: device alias, length <= 20

### **set\_datetime.cgi**

description: set date&time parameter

permission: administrator

syntax

/set\_datetime.cgi?[tz=&daylight\_saving\_time=&ntp\_enable=&ntp\_svr=&now=&user=&pwd=&next\_url=]

parameter:

now	The lost seconds during the period from 1970-1-1 0:0:0 to the specified time , e.g. attach the parameter,then the device proofread the time according to this time.
tz	Tz setting: the seconds deviate from the standard GMT
daylight_saving_time	Set the different seconds between daylight saving time and the standard time
ntp_enable	0:disable ntp proofread time; 1: enable
ntp_svr	Ntp server, length <= 64

### set\_users.cgi

description: set user parameter

permission: administrator

syntax:

```
/set_users.cgi?user1=&pwd1=&pri1=&user2=&pwd2=&pri2=&user3=&pwd3=&pri3=&user4=&pwd4=&pri4=&user5=&pwd5=&pri5=&user6=&pwd6=&pri6=&user7=&pwd7=&pri7=&user8=&pwd8=&pri8=[&user=&pwd=&next_url=]
```

parameter:

user1	user1name, length <= 12
pwd1	user1password, length <= 12
pri1	user1permission, 0: visitor; 1: operator; 2: administrator
...	
user8	User 8 name
pwd8	User 8 password
pri8	User 8 permission

### set\_devices.cgi

description: set multi-device parameter

permission: 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=[&user=&pwd=&next_url=]
```

parameter:

dev2_alias	dev2_alias, length <= 20
dev2_host	dev2_host, length <= 64
dev2_port	dev2_port
dev2_user	dev2_user, length <= 12
dev2_pwd	dev2_pwd, length <= 12
...	
dev4_alias	dev4_alias
dev4_host	dev4_host
dev4_port	dev4_port
dev4_user	dev4_user
dev4_pwd	dev4_pwd

**set\_network.cgi**

description: set basic network parameter

permission: administrator

syntax :

/set\_network.cgi?ip=&mask=&gateway=&dns=&port=[&dhcp\_vendor=&user=&pwd=&next\_url=]

parameter:

ip	Ip address,e.g.set the ip blank,then obtain the ip dynamicly and ignore mask,gateway,dns parameter below.
mask	Subnet mask
gateway	gateway
dns	Dns server
port	port
dhcp_vendor	Dhcp vendor class id

**set\_wifi.cgi**

description: set wifi parameter

permission: administrator

syntax:

/set\_wifi.cgi?enable=&ssid=&encrypt=&defkey=&key1=&key2=&key3=&key4=&authtype=&keyformat=&key1\_bits=&key2\_bits=&key3\_bits=&key4\_bits=&channel=&mode=&wpa\_psk=[&country=&user=&pwd=&next\_url=]

parameter:

enable	0: disable wifi function; 1:enable
ssid	Join wifi network ssid, length <= 40
channel	reserved =5
mode	reserved =0
encrypt	0: disable encrypt; 1: wep encrypt; 2: wpa tkip; 3: wpa aes; 4: wpa2 aes; 5: wpa2 tkip+aes
authtype	wep authtype, 0: open; 1: share
keyformat	Wep keyformat, 0: 16 hex; 1: ascii character
defkey	Wep key selection: 0-3
key1	Wep key1, length <= 30
key2	wep key 2
key3	Wep key3
key4	Wep key4

key1_bits	Wep key1 length, 0: 64 bits; 1: 128 bits
key2_bits	Wep key2 length, 0: 64 bits; 1: 128 bits
key3_bits	Wep key3 length, 0: 64 bits; 1: 128 bits
key4_bits	Wep key4 length, 0: 64 bits; 1: 128 bits
wpa_psk	wpa psk key, length <= 64
country	Country set 0: North America 1- 11 channel 1: Europe, most parts of the world, 1-13 channel 2: 10-11 channel 3: 10-13 channel 4: 14 channel 5: Japan 1-14 channel 6: 3-9 channel 7: 5-13 channel

### set\_pppoe.cgi

description: set pppoe settings

permission: administrator

syntax

/set\_pppoe.cgi?enable=&user=&pwd=&mail\_ip=[&cam\_user=&cam\_pwd=&next\_url=]

parameter:

enable	0: disable pppoe; 1: enable
user	Pppoe dial user, length <= 64
pwd	Pppoe dial password, length <= 64

### set\_upnp.cgi

description: set upnp options

permission: administrator

syntax: /set\_upnp.cgi?enable=[&user=&pwd=&next\_url=]

parameter:

enable	0: disable upnp forwarding function; 1: enable
--------	--

### set\_ddns.cgi

description: set ddns settings



permission: administrator

syntax:

/set\_ddns.cgi?service=&user=&pwd=&host=&proxy\_svr=&proxy\_port=[&restart\_dyndns=&cam\_user=&cam\_pwd=&next\_url=]

parameter:

service	0: disable ddns
	1: oray.cn
	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: reserved
	11: reserved
	12: reserved
	13: MintDNS
	14: 9299.org
15: NetEase communication platform	
user	Ddns user, length <= 64
pwd	Ddns password, length <= 64
host	Ddns domain name, length <= 64 when service=14, as 9299.org , it is A level domain settings when service=15 , as NetEase communication platform , it is alarm url setting , e.g. <a href="http://xxx/api/alarm.aspx">http://xxx/api/alarm.aspx</a>
proxy_svr	length <= 64 when service=13/14, as MintDNS/9299.org , it is URL setting,e.g. <a href="http://www.dyndns.us/nic/update">http://www.dyndns.us/nic/update</a> 、 <a href="http://www.9299.org/upgengxin.asp">http://www.9299.org/upgengxin.asp</a> when service=15 , as NetEase communication platform , it is update url setting , e.g. <a href="http://xxx/api/userip.aspx">http://xxx/api/userip.aspx</a>
proxy_port	when service=14, as 9299.org , it is mode setting
restart_dyndns	1: restart dyndns; 0: no

**set\_ftp.cgi**

description: set ftp settings

[www.foscam.com](http://www.foscam.com)

permission: administrator

syntax:

```
/set_ftp.cgi?[svr=&port=&user=&pwd=&mode=&retain=&dir=&upload_interval=&filename=&numberoffiles=&schedule_enable=&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=&cam_user=&cam_pwd=&next_url=]
```

parameter:

svr	ftp service address, length <= 64
port	ftp service port
user	ftp service user, length <= 64
pwd	ftpservice pwd, length<= 64
dir	ftp upload catalogue, length <= 64
mode	0: port mode; 1: pasv mode
retain	0: release connection after uploading pics; 1: retain connection after uploading pics
upload_interval	upload_interval (seconds) , 0: disable, 0-65535
filename	Filename when upload
numberoffiles	Numberoffiles when upload
schedule_enable	Schedule enable or not
schedule_sun_0	Sunday upload plan.24hours/day.
schedule_sun_1	Divided 24hours to 96 time district,each district for 15 munites. bit0-95: 0: not upload at this bit; 1: upload at this bit
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\_mail.cgi**

description: set mail settings

permission: administrator

syntax:

```
/set_mail.cgi?svr=&port=&user=&pwd=&sender=&receiver1=&receiver2=&receiver3=  
&receiver4=&mail_inet_ip=[&tls=&cam_user=&cam_pwd=&next_url=]
```

parameter:

svr	mail service address, length<= 64
port	mail service port
tls	Use tls transport protocol or not, 0: no; 1: TLS; 2: STARTLS
user	mail service user, length <= 64
pwd	mail service pwd, length<= 64
sender	sender, length <= 64
receiver1	receiver 1, length <= 64
receiver2	receiver 2, length <= 64
receiver3	receiver 3, length<= 64
receiver4	receiver 4, length <= 64
mail_inet_ip	send mail or not when camera's inet ip changes, 0: no; 1: yes

**set\_msn.cgi**

description: set msn parameter

permission: administrator

syntax:

```
/set_msn.cgi?[user=&pwd=&friend1=&friend2=&friend3=&friend4=&friend5=&friend6=  
&friend7=&friend8=&friend9=&friend10=&cam_user=&cam_pwd=&next_url=]
```

parameter:

user	msn user, length <= 64
pwd	msn pwd, length <= 64
friend1	msn friend 1, length <= 64
friend2	msn friend 2, length <= 64
friend3	msn friend 3, length <= 64
friend4	msn friend 4, length <= 64
friend5	msn friend 5, length <= 64

friend6	msn friend 6, length <= 64
friend7	msn friend 7, length <= 64
friend8	msn friend 8, length <= 64
friend9	msn friend 9, length <= 64
friend10	msn friend 10, length <= 64

**set\_alarm.cgi**

description: set alarm settings

permission: administrator

syntax:

/set\_alarm.cgi?[motion\_armed=&motion\_sensitivity=&motion\_compensation&input\_armed=&sounddetect\_enabled=&sounddetect\_sensitivity=&iolinkage=&mail=&upload\_interval=&schedule\_enable=&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=&ioin\_level=&ioout\_level=&http=&http\_url=&preset=&user=&pwd=&next\_url=]

parameter:

motion_armed	0: motion detection unarmed; 1: armed
motion_sensitivity	0-9: high-low
motion_compensation	Enable alarm motion compensation or not when the light changes suddently, 0: no, 1: yes
input_armed	0: input_unarmed; 1: armed
ioin_level	io ioin_level, 0: low, 1: high
sounddetect_armed	0: sounddetect_unarmed; 1: armed
sounddetect_sensitivity	sounddetect_sensitivity, 0-9: high-low
iolinkage	0: disable io linkage on alarm; 1: enable
preset	0: disable preset linkage on alarm; other: enable preset linkage on alarm
ioout_level	ioioout_level, 0: low, 1: high
mail	0: disable sending mail on alarm 1:enabl
upload_interval	alarm_upload_interval (seconds) -65535
http	0: Disable notifying with http visit on alarm; 1: enable
http_url	http url when visit on alarm
schedule_enable	schedule_enable or not
schedule_sun_0	Sunday arm plan.24hours/day.
schedule_sun_1	Divided 24hours to 96 time district,each district for 15 munites.
schedule_sun_2	bit0-95: 0: not upload at this bit; 1: upload at this bit

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	

### **comm\_write.cgi**

description: sending data through camera serial port,only support some models

permission: operator

syntax: /comm\_write.cgi?port=&baud=&bytes=&data=[&user=&pwd=&next\_url=]

parameter:

port: serial port number, 0-3

baud: port bau

9: B1200

11: B2400

12: B4800

13: B9600

14: B19200

15: B38400;

4097: B57600

4098: B115200

bytes: bytes when send data < 256

data: data need to send,use url code

**set\_forbidden.cgi**

description: set the forbidden for checking video/audio

permission: administrator

syntax:

```
/set_forbidden.cgi?schedule_enable=&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=[&user=&pwd=&next_url=]
```

parameter:

schedule_enable	Plan to forbidding to check video/audio
schedule_sun_0	Sunday plan.24hours/day.
schedule_sun_1	Divided 24hours to 96 time district,each district for 15 munites. Bit0-95: 0: not forbid,1: forbid
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	

**get\_forbidden.cgi**

description: get the forbidden for checking video/audio

permission: administrator

syntax: /get\_forbidden.cgi[?user=&pwd=]

return: see set\_forbidden.cgi

### **set\_misc.cgi**

description: set misc parameters of camera

permission: administrator

syntax:

/set\_misc.cgi?[led\_mode=&ptz\_center\_onstart=&ptz\_auto\_patrol\_interval=&ptz\_auto\_patrol\_type=&ptz\_patrol\_h\_rounds=&ptz\_patrol\_v\_rounds=&ptz\_disable\_preset=&ptz\_preset\_onstart&user=&pwd=&next\_url=]

parameter:

led\_mode: 0: mode1; 1: mode2; 2: shut off the led

ptz\_center\_onstart: =1, ptz\_center\_onstart

ptz\_auto\_patrol\_interval: ptz\_auto\_patrol\_interva, =0: no auto rotating

ptz\_auto\_patrol\_type: 0: no rotate; 1: horizontal; 2: vertical; 3: horizontal + vertical

ptz\_patrol\_h\_rounds: ptz\_patrol\_h\_rounds, 0: infinite

ptz\_patrol\_v\_rounds: ptz\_patrol\_v\_rounds, 0: infinite

ptz\_patrol\_rate: ptz\_patrol\_rate, 0-100, 0: the fastest

ptz\_patrol\_up\_rate: ptz\_patrol\_up\_rate: 0-100, 0: the slowest

ptz\_patrol\_down\_rate: ptz\_patrol\_down\_rate: 0-100, 0: the slowest

ptz\_patrol\_left\_rate: ptz\_patrol\_left\_rate: 0-100, 0: the slowest

ptz\_patrol\_right\_rate : ptz\_patrol\_right\_rate : 0-100 , 0 : the slowest

ptz\_disable\_preset: ptz\_disable\_preset: 0: no; 1: yes (take effect after reboot)

ptz\_preset\_onstart: ptz\_preset\_onstart: 0: disable

### **get\_misc.cgi**

description: obtain misc parameters of camera

permission: administrator

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

return: see get\_misc.cgi

**set\_decoder.cgi**

description: set the parameter for decoder

permission: administrator

syntax: /set\_decoder.cgi?baud=[&user=&pwd=&next\_url=]

parameter:

    baud:

        9: B1200

        11: B2400

        12: B4800

        13: B9600

        14: B19200

        15: B38400;

        4097: B57600

        4098: B115200

**wifi\_scan.cgi**

description: to order the camera to scan wifi

permission: administrator

syntax: /wifi\_scan.cgi [?user=&pwd=&next\_url=]

parameter: no

**get\_wifi\_scan\_result.cgi**

description: obtain result of camera scan wifi

permission: administrator

syntax: /get\_wifi\_scan\_result.cgi[?user=&pwd=]

return:

```
var ap_bssid=new Array();
var ap_ssid=new Array();
var ap_mode=new Array();
var ap_security=new Array();
ap_bssid[0]='0015ebbe2153';
ap_ssid[0]='ZXDSL531BII-BE2153';
ap_mode[0]=0;
```



```
ap_security[0]=0;
ap_bssid[1]='00223f176d70';
ap_ssid[1]='nony';
ap_mode[1]=0;
ap_security[1]=2;
ap_bssid[2]='001d0f3fef40';
ap_ssid[2]='Calvin&Cici';
ap_mode[2]=0;
ap_security[2]=1;
ap_bssid[3]='0022b0f5ce72';
ap_ssid[3]='CX';
ap_mode[3]=0;
ap_security[3]=1;
ap_bssid[4]='001c1042b6b7';
ap_ssid[4]='ipcamera';
ap_mode[4]=0;
ap_security[4]=2;
var ap_number=5;
```

among

ap\_number: scan ap number

ap\_bssid: scan ap bssid

ap\_ssid: scan ap ssid

ap\_mode: scan ap mode, 0: infra; 1: adhoc (not support)

ap\_security: scan ap security mode,

0: no;

1: WEP;

2: WPAPSK(TKIP);

3: WPAPSK(AES);

4: WPA2PSK(AES);

5: WPA2PSK(TKIP);

6: security mode do not support

### **get\_log.cgi**

description: obtain log of the camera

permission: administrator

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

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return: log info, e.g.:

```
var 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';
```

Among which log text variable for the log info,use '\n' to separate every log info.

### **test\_mail.cgi**

description: test mail function

permission: administrator

syntax: /test\_mail.cgi[?user=&pwd=]

return:

result: the result of test

- 0: succeed
- 1: can not connect to the server
- 2: network error
- 3: server error
- 4: incorrect user
- 5: incorrect pwd
- 6: rejected by the sender
- 7: rejected by the receiver
- 8: the text rejected
- 9: authentication does not accept
- 10: internal error
- 11: the device does not support TLS/STARTTLS protocol
- 12: invalid parameter
- 13: the server does not support TLS/STARTTLS protocol

### **test\_ftp.cgi**

description: ftp function test

permission: administrator

syntax: /test\_ftp.cgi[?user=&pwd=]

return:

result: the result of test

- 0: succeed
- 1: can not connect to the server

- 2: network error
- 3: server error
- 4: incorrect user
- 5: incorrect pwd
- 6: incorrect catalogue
- 7: pasv mode error
- 8: port mode error
- 9: stor command error

**backup\_params.cgi**

description: back up the current parameter settings

permission: administrator

syntax: /backup\_params.cgi[?user=&pwd=]

return: params.bin file

**restore\_params.cgi**

description: restore the previous backup parameter settings

permission: administrator

syntax: /restore\_params.cgi[?user=&pwd=&next\_url=]

note: The cgi must use the post method,package the previous backup parameter set file and send it to the ip camera.

**set\_factory\_params.cgi**

description: set factory parameter

permission: administrator

syntax: /set\_factory\_params.cgi[?user=&pwd=&next\_url=]

note: The cgi must use the post method,package the factory parameter set file and send it to the ip camera.

Keep the file format and CAMERA\_PARAMS format the same.

**set\_mac.cgi**

description: set the camera's mac address

permission: administrator

syntax: /set\_mac.cgi?mac=[&user=&pwd=&next\_url=]

parameter:

mac: mac address: e.g. mac=0012a0746f01

**set\_factory\_ddns.cgi**

description: set device ddns setting,while set it as factory default value

permission: administrator

syntax:

/set\_factory\_ddns.cgi?[service=&user=&pwd=&host=&proxy\_svr=&proxy\_port=&cam\_user=&cam\_pwd=&next\_url=]

parameter:

service	0: disable ddns service
	1: oray.cn
	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: reserved
	11: reserved
	12: reserved
	13: MintDNS
	14: 9299.org
user	Ddns user, length <= 64
pwd	Ddns pwd, length <= 64
host	Ddns host, length <= 64 when service=14, as 9299.org,it is A level domain settings
proxy_svr	length <= 64 when service=13/14, as MintDNS/9299.org, it is visit URL setting , e.g. :

	<a href="http://www.dynddns.us/nic/update">http://www.dynddns.us/nic/update</a> 、 <a href="http://www.9299.org/upgengxin.asp">http://www.9299.org/upgengxin.asp</a>
proxy_port	when service=14, as 9299.org, it is mode setting
restart_dyndns	1: restart dyndns; 0: no

### get\_factory\_ddns.cgi

description: get device ddns factory parameter setting

permission: administrator

syntax: /get\_factory\_ddns.cgi[?user=&pwd=]

return:

factory_ddns_service	0: disable ddns service
	1: oray.cn
	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: reserved
	11: reserved
	12: reserved
	13: MintDNS
14: 9299.org	
factory_ddns_user	Ddns user
factory_ddns_pwd	Ddns pwd
factory_ddns_host	Ddns host when service=14, as 9299.org,it is A level domain settings
factory_ddns_proxy_svr	when service=13/14, as MintDNS/9299.org, it is visit URL setting,e.g.: <a href="http://www.dynddns.us/nic/update">http://www.dynddns.us/nic/update</a> 、 <a href="http://www.9299.org/upgengxin.asp">http://www.9299.org/upgengxin.asp</a>
factory_ddns_proxy_port	when service=14, as 9299.org, it is mode setting

### restore\_factory\_ddns.cgi

description: restore device ddns factory default value

permission: administrator

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syntax:

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