# IP Camera CGI V1.27

| 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<br>⌘ get_params.cgi add parameter：wifi_channel、wifi_authtype、wifi_keyformat、wifi_key1_bits、wifi_key2_bits、wifi_key3_bits、wifi_key4_bits。<br>⌘ set_wifi.cgi add parameter：channel、authtype、keyformat、key1_bits、key2_bits、key3_bits、key4_bits。<br>⌘ modify snapshot.cgi，add authentication method：use username and password in param directly<br>⌘ add videostream.cgi |
| 1.02 | Maverick Gao | 2008-08-06 | system software x.x.1.18<br>⌘ modify camera_control.cgi，add PT control |
| 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<br>chang motion detection sensibility<br>add alarm scheduler related param |
| 1.05 | Maverick Gao | 2009-04-29 | system software x.x.1.39<br>add videostream.asf<br>in videostream.cgi add resolution param |
| 1.06 | Maverick Gao | 2009-06-13 | system software x.x.1.41<br>in decoder_control.cgi add onestep param<br>add comm_write.cgi<br>add set_forbidden.cgi<br>add get_forbidden.cgi<br>add set_misc.cgi<br>add get_misc.cgi<br>add set_decoder.cgi<br>in get_params.cgi add param：decoder_baud |
| 1.07 | Maverick Gao | 2009-06-19 | system software x.x.1.42<br>in set_misc.cgi get_misc.cgi param added：<br>ptz_patrol_rate,<br>ptz_patrol_up_rate,<br>ptz_patrol_down_rate,<br>ptz_patrol_left_rate,<br>ptz_patrol_right_rate |
| 1.08 | Maverick Gao | 2009-08-03 | system software x.x.1.43<br>add wifi_scan.cgi<br>add get_wifi_scan_result.cgi<br>add get_log.cgi |

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

| 1.16 | Maverick Gao | 2010-09-03 | system software x.x.2.28<br>add decoder_control.cgi with param of degree |
|---|---|---|---|
| 1.17 | Maverick Gao | 2010-09-27 | system software x.x.2.29<br>modify get_params.cgi param description , add alarm_motion_compensation、daylight_saving_time、ftp_schedule_enable、ftp_schedule series param<br>modify set_ftp.cgi param description , add schedule_enable、 schedule param<br>modify set_datetime.cgi param description , add daylight_saving_time param<br>modify set_alarm.cgi param description , add motion_compensation param<br>modify set_misc.cgi param description , add ptz_preset_onstart param<br>modify get_misc.cgi param description , add ptz_preset_onstart param |
| 1.18 | Maverick Gao | 2010-11-20 | system software x.x.2.32<br>modify get_params.cgi param description , add msn_user、 msn_pwd series param<br>add set_msn.cgi<br>add get_status.cgi return param msn_status |
| 1.19 | Maverick Gao | 2010-12-07 | system software x.x.2.34<br>modify get_params.cgi param description,add msn_friend series param<br>modify set_msn.cgi param , add friend series param<br>modify set_ddns.cgi 、 get_params.cgi 、 get_factory_ddns.cgi and set_factory_ddns.cgi 's ddns param description。<br>modify get_status.cgi return ddns_status param description |
| 1.20 | Maverick Gao | 2011-3-3 | system software x.x.2.37<br>add set_factory_params.cgi |
| 1.21 | Maverick Gao | 2011-3-30 | system software x.x.2.38<br>add set_extra_io.cgi |
| 1.22 | Maverick Gao | 2011-5-23 | system software x.x.2.40<br>modify get_params.cgi param description,add dhcp_vendor param<br>modify set_network.cgi param description , add dhcp_vendor param |
| 1.23 | Maverick Gao | 2011-6-25 | system software x.x.2.40<br>modify get_parames.cgi , set_ddns.cgi , get_status.cgi<br>add easynet platform |
| 1.24 | Maverick Gao | 2011-7-1 | system software x.x.2.41<br>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<br>In get_status.cgi add wifi_status |
| 1.26 | Maverick Gao | 2011-8-11 | system software x.x.2.42<br>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<br>modify ddns param description<br>add ftp_retain param |

Content

# 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 devide the cgi into two kinds:

- ଊ 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：

- ଊ 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：

z 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 .. 28 | Reserve |
| 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 .. 42 | Reserve |
| 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：horizonal 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

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 fouth device alias name |
| dev4_host | The fouth device address |
| dev4_port | The fouth device port |
| dev4_user | The fouth device visitor username |
| dev4_pwd | The fouth 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 Authetication，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<br>0：North american 1- 11 channel<br>1：Europe，most area of world，1-13 channel<br>2：10-11 channel<br>3：10-13 channel<br>4：14 channel<br>5：Japan 1-14 channel<br>6：3-9 channel<br>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<br>if service=14，like 9299.org ，it is level one hostname setting<br>if service=15，like easynet platform，it is alarm url setting, for example: http://xxxx/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<br>if service=15，like easynet platform，it is update url setting，for example http://xxxx/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, |
| ftp_schedule_sun_1 | by15minuts every hour, to divide 96 motion |
| ftp_schedule_sun_2 | scheduler period |
| | Bit0-95：0：no upload in this period；1：upload in this period |
| 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 suddenly，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. |
|---|---|
| alarm_schedule_sun_2 | bit0-95：0：alarm unarmed at this bit；1：alarm armed at this bit |
| 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

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<br>0：North America 1- 11 channel<br>1：Europe，most parts of the world，1-13 channel<br>2：10-11 channel<br>3：10-13 channel<br>4：14 channel<br>5：Japan 1-14 channel<br>6：3-9 channel<br>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_dyndn
s=&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<br>when service=14，as 9299.org ，it is A level domain settings<br>when service=15，as NetEase communication platform，it is alarm url setting，e.g. http://xxxx/api/alarm.aspx |
| proxy_svr | length <= 64<br>when service=13/14，as MintDNS/9299.org ，it is URL setting,e.g. http://www.dynddns.us/nic/update、 http://www.9299.org/upgengxin.asp<br>when service=15，as NetEase communication platform，it is update url setting，e.g. http://xxxx/api/userip.aspx |
| 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

---

permission：administrator

syntax：

/set_ftp.cgi?[svr=&port=&user=&pwd=&mode=&retain=&dir=&upload_interval=&filena
me=&numberoffiles=&schedule_enable=&schedule_sun_0=&schedule_sun_1=&sche
dule_sun_2=&schedule_mon_0=&schedule_mon_1=&schedule_mon_2=&schedule_t
ue_0=&schedule_tue_1=&schedule_tue_2=&schedule_wed_0=&schedule_wed_1=&s
chedule_wed_2=&schedule_thu_0=&schedule_thu_1=&schedule_thu_2=&schedule_f
ri_0=&schedule_fri_1=&schedule_fri_2=&schedule_sat_0=&schedule_sat_1=&schedu
le_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 |
| schedule_sun_2 | 15 munites.<br>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 | |
|----------------|--|

**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 suddenly，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. |
| schedule_sun_2 | Bit0-95: 0: not forbid,1: forbid |
| 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_pre
set_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=]

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<br>when service=14，as 9299.org,it is A level domain settings |
| proxy_svr | length <= 64<br>when service=13/14，as MintDNS/9299.org，it is visit URL setting，e.g. ： |

| | http://www.dynddns.us/nic/update 、 http://www.9299.org/upgengxin.asp |
|---|---|
| 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<br>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.： http://www.dynddns.us/nic/update、 http://www.9299.org/upgengxin.asp |
| 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
syntax：
/restore_factory_ddns.cgi?[user=&pwd=&next_url=]