IP Camera CGI Application Guide

Version	Author	Date	Modify
1.0	Maverick Gao	2007-11-21	Apply to system software x.x.1.2
1.01	Maverick Gao	2008-07-25	Apply to system software x.x.1.17 ● Increase the parameter in get_params.cgi： wifi_channel 、 wifi_authtype 、 wifi_keyformat 、 wifi_key1_bits 、 wifi_key2_bits 、 wifi_key3_bits、wifi_key4_bits。 ● Increase the parameter in set_wifi.cgi：channel、authtype、keyformat、key1_bits、key2_bits、key3_bits、key4_bits。 ● Modify snapshot.cgi，Increase a authentication ： add the cgi parameter to the user name and password directly. ● Increase videostream.cgi
1.02	Maverick Gao	2008-08-06	Apply to system software x.x.1.18 ● Modify camera_control.cgi ， Increase the rotation control
1.03	Maverick Gao	2009-01-07	Apply to system software x.x.1.32
1.04	Maverick Gao	2009-02-07	Apply to system software x.x.1.33 Change the motion detection sensitivity Increase parameters of alarm deployment plan
1.05	Maverick Gao	2009-04-29	Apply to system software x.x.1.39 Increase videostream.asf Increase parameters resolution in videostream.cgi
1.06	Maverick Gao	2009-06-13	Apply to system software x.x.1.41 Increase onestep parameters in decoder_control.cgi Increase comm_write.cgi Increase set_forbidden.cgi Increase get_forbidden.cgi Increase set_misc.cgi Increase get_misc.cgi Increase set_decoder.cgi Increase parameters decoder_baud in get_params.cgi
1.07	Maverick	2009-06-19	Apply to system software x.x.1.42

	Gao		Increase parameters in set_misc.cgi get_misc.cgi 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	pply to system software x.x.1.43 Increase wifi_scan.cgi Increase get_wifi_scan_result.cgi Increase get_log.cgi
1.09	Maverick Gao	2009-08-22	Apply to system software x.x.1.44 Modify return value get_wifi_scan_result.cgi
1.10	Maverick Gao	2009-09-25	Apply to system software x.x.2.2 Increase parameters in get_params.cgi alarm_ioin_level，alarm_ioout_level Modify user and password, in set_pppoe.cgi,don't more than 64 words. Modify user,password and host in inset_ddns.cgi ， proxy_svr ，don't more than 64 words. Modify user,password, sender ， receiver1 ， receiver2 ， receiver3 ， receiver4 in set_mail.cgi ，don't more than 64 words. Increase the parameter in set_alarm.cgi ioin_level，ioout_level Increase check_user.cgi Increase backup_params.cgi Increase restore_params.cgi
1.11	Maverick Gao	2009-10-07	Apply to system software x.x.2.2 Increase set_mac.cgi

Catalog

ip camera cgi

This paper listed in Cgi is to provide a set of ip camera interface based on http protocol, the client program (a web browser can run Web or other application) can be cgi various operations on the equipment.

- cgi security certificate: The following the cgi, when they was visited , they require safety certification. Different Cgi interfaces require different authority require, a total of three levels: visitors, operators and managers. Authorization is based on the user in the camera setting. Specific authentication's mechanism support two ways: http protocol basic on security authentication mechanism, add the cgi parameter to the user name and password directly.
- Check cgi method: In all of the http method, this paper only supports cgi get and post. upgrade_firmware.cgi and upgrade_htmls.cgi only support post method, others suppot get method.

  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 例子

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

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

- cgi reture ： According to the returned information, this paper listed two method about cgi:
  - ✓ Acquire equipment status and parameters of the cgi, including get_status.cgi and get_params.cgi. They returned including the status of the device or text of parameters, the specific format similar to the javascript variable, it will the every state and parameter define a variable ,then returns. For example:

    ```
    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’;

- ✓ Set parameters of equipment or operate cgi. Such cgi will return information of text what operate results, If it is success, it will return "ok"; if it is the failure, it will reture the specific error message, such as: "error: illegal param" it means parameter of cgi is wrong. As well as if you operate successful, but you don’t want to simply reture text of ‘ok’, example is a simple operation is successful do not want to return "ok" text, but a file, you can request add a parameters to cgi parameter string : next_url. The parameters that correspond to operating successful jump to the next file, note must be a relative path.

check_user.cgi

Description：Check the results for the current user
Authorization：Visitors
Grammar：/check_user.cgi[?user=&pwd=]
reture：

user：current user

pwd：current password

pri：current authorization

1：User

2：Operator

3：Managers

snapshot.cgi

Description：Acquire the current picture
Authorization：Visitors
Grammar：/snapshot.cgi[?user=&pwd=&next_url=]
parameters：

next_url：Image file name

specification：

If don’t have append next_url parameter, returned the image file name: device id (device alias) _ the current time. Jpg, otherwise the file name is next_url specified file name.

videostream.cgi

Description：ip camera send the JPEG video streaming to client by server push model.
Authorization：Visitors
Grammar：/videostream.cgi[?user=&pwd=&resolution=]
parameters：
resolution：Image resolution（8：320*240，32：640*480）

videostream.asf

Description：Ip camera sent asf audio data of media formats. Now only support vlc player and mplayer
Authorization：Visitors
Grammar：/videostream.asf[?user=&pwd=&resolution=]
parameters：
resolution：Image resolution（8：320*240，32：640*480）

get_status.cgi

Description：Acquire Device Status
Authorization：Null
Grammar：/get_status.cgi
Reture：
id：Equipment id
sys_ver：firmware version
app_ver：Website interface version
alias：Alias
now：The current time elapsed seconds From 1970-1-1 0:0:0 to equipment
tz：Set the current time zone and Greenwich Mean Time standards time by seconds of deviation
alarm_status：Set current alarm status, 0: no alarm; 1: Mobile monitoring and alarming; 2: Enter the alarm
ddns_status：Set current ddns working order.

0	No operation
1	Connecting
2	connect to server is failed
3	Dyndns Success

4	Dyndns failed：System Error
5	Dyndns failed：User name and password are error
6	Dyndns failed：register failed
7	DynDns failed:Domain name format is not correct
8	DynDns failed: Domain does not exist
9	DynDns failed: Domain name does not belong to you
10	DynDns failed: The domain name request is too much or too little
11	DynDns failed: Domain was blocked due to flooding
12	DynDns failed: Server is error
13	DynDns failed:
14	Peanuthull failed: Haven't received the correct response of server
15	Peanuthull failed: User or password is error
16	Peanuthull failed: The domain name is wrong
17	Peanuthull successed
18 .. 28	Save
29	3322 successed
30	3322 failed: System Error
31	3322 failed: User or password is error
32	3322 failed: register failed
33	3322 failed: Domain name format is not correct
34	3322 failed: Domain does not exist
35	3322 failed: Domain name does not belong to you
36	3322 failed: The domain name request is too much or too little
37	3322 failed: Domain was blocked due to flooding
38	3322 failed: Server is error
39	3322 failed: Haven't received the correct response of server

ddns_host：ddns Host Name

oray_type ： Peanuthull type of service ， 0: Standard; 1: Professional

upnp_status：set operational status of current upnp

0	No operation
1	Success

2	Equipment system is error
3	Network communication is error
4	Dialogue is error with the UPnP device
5	UpnP equipment is refuse, may be port is conflicts

get_camera_params.cgi

Description: acquire camera parameter set
Authorization：Visitors
Grammar：/get_camera_params.cgi[?user=&pwd=]
return：

resolution 8：qvga；32：vga

brightness：Brightness，0~255

contrast：Contrast，0~6

mode：Mode，0：50hz；1：60hz；2：outdoor

flip：Rotation, 0: Original;1: Vertical Flip;2: level image; 3: Vertical Flip + horizontal mirror;

decoder_control.cgi

Description: decoder control
Authorization：operator
Grammar：/decoder_control.cgi?command=[&onestep=&user=&pwd=&next_url=]
Parameter：

onestep=1：Explain ptz is a single step operation equal to stop, only for the model with ptz functions and applies for up, down, left and right action.

command：Action command decoder

values	485 Serial external pelco-d decoder	Built-in 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	Big aperture	

11	Stop big aperture	
12	The focal length is near	
13	Stop the focal length	
14	The focal length is far	
15	Stop the focal length	
16	Zoom is near	
17	Stop zoom nearer	
18	Zoom is far	
19	Stop zoom is farther	
20	Auto Cruisie	
21	Stop automatic cruisie	
22	Close switch 1	
23	Disconnect switch 1	
24	Close switch 2	
25	Disconnect switch 2	Center
26	Close switch 3	Cruise up and down
27	Disconnect switch 3	Cruise up and down to stop
28	Close switch 4	Cruise left and right
29	Disconnect switch 4	Stop cruise left and right
30	Set preset position 1	
31	To the preset position 1	
…	.	
90	.	upper-left
91	.	upper-right
92	Set preset position 32	lower left
93	To the preset position 32	lower right
94	Io Output high	Io output high
95	IoOutput low	Io output low
255		Motor test mode

camera_control.cgi

Description: image sensor parameter control
Authorization：operator
Grammar：/camera_control.cgi?param=&value=[&user=&pwd=&next_url=]
return：

param：Parameter type
value：Parameter values

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：Rotation	0：Original
	1：Flip Vertical
	2：Level image
	3：Flip + horizontal vertical mirror

reboot.cgi

Description: restart device
Authorization: manager
Grammar：/reboot.cgi[?user=&pwd=&next_url=]

restore_factory.cgi

Description: Restore factory settings
Authorization: manager
Grammar：/restore_factory.cgi[?user=&pwd=&next_url=]

get_params.cgi

Description Description: get device parameters set
Authorization: manager
Grammar：/get_params.cgi[?user=&pwd=]
return：

id	Device id
sys_ver	Firmware version
app_ver	Website interface version
alias	Alias
now	The current time elapsed seconds From 1970-1-1 0:0:0 to equipment
tz	Set the current time zone and Greenwich Mean Time standards time by seconds of deviation
ntp_enable	0：Stop ntp；1：allow

ntp_svr	Ntps erver
user1_name	The name of the user 1
user1_pwd	The password of the users 1
user1_pri	1 user authorization , 0: visitors; 1: operator; 2: Administrator
…	
user8_name	The name of the user 8
user8_pwd	The password of the user 8
user8_pri	The authorization of user 8
dev2_alias	Second line equipment alias
dev2_host	Second line equipment address
dev2_port	Second line device port
dev2_user	Second line device visitor
dev2_pwd	The password of second line device
…	
dev4_alias	Fourth line equipment alias
dev4_host	Fourth line equipment address
dev4_port	Fourth line device port
dev4_user	Fourth line device visitor
dev4_pwd	The password of second line device
ip	Ip address
mask	Subnet mask
gateway	Gateway
dns	Dns server
port	Port
wifi_enable	0: Forbidden wifi function; 1: allow
wifi_ssid	To join ssid of wifi network
wifi_channel	Save
wifi_mode	Save
wifi_encrypt	0: No encryption; 1: wep encryption
wifi_authtype	wep Check mode，0：open；1：share
wifi_keyformat	Wep Key format，0：Hexadecimal；1：ascii words
wifi_defkey	Key selection in wep
wifi_key1	Wep Key 1
wifi_key2	Wep Key2
wifi_key3	Wep Key 3
wifi_key4	Wep Key 4
wifi_key1_bits	Wep Key1 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 Key
pppoe_enable	0：forbidden pppoe；1：allow

pppoe_user	Pppoe dial-up users
pppoe_pwd	Pppoe dial-up password
upnp_enable	0: Forbidden upnp mapping function; 1: allow
ddns_service	0：Forbidden ddns service
	1：Peanuthull
	2：DynDns.org(dyndns)
	3：DynDns.org(statdns)
	4：DynDns.org(custom)
	5：save
	6：save
	7：save
	8：3322(dyndns)
	9：3322(statdns)
ddns_user	ddns users
ddns_pwd	ddns password
ddns_host	Ddns Domain name
ddns_proxy_svr	Proxy server address (only used in mainland China dyndns service)
ddns_proxy_port	Proxy server port
mail_svr	Mail server address
mail_port	Mail service port
mail_user	Mail Server Login
mail_pwd	Mail server password
mail_sender	Mail sender
mail_receiver1	Recipient of a message
mail_receiver2	Mail recipient 2
mail_receiver3	Mail recipient 3
mail_receiver4	Mail recipient 4
mail_inet_ip	Camera inet ip change whether to send the mail notification, 0: No; 1: Yes
ftp_svr	ftp server address
ftp_port	ftp server port
ftp_user	ftp server login
ftp_pwd	ftp server password
ftp_dir	ftp server, storage directory
ftp_mode	0: port model; 1: pasv mode
ftp_upload_interval	Instantly upload pictures of the interval (in seconds), 0: prohibit
alarm_motion_armed	0: Mobile detection disarm; 1: deployment
alarm_motion_sensitivity	0-9: High - Low
alarm_input_armed	0: Input test disarm; 1: deployment
alarm_ioin_level	Alarm trigger input level, 0: low; 1: High
alarm_iolinkage	0: alarm linkage against io; 1: allow

alarm_ioout_level	io linkage output level, 0: low; 1: High
alarm_mail	0: Alarm mail notification when the ban; 1: allow
alarm_upload_interval	0: Alarm mail notification when the ban; 1: allow
alarm_schedule_enable	Whether to adopt the deployment plan
alarm_schedule_sun_0	Sunday deployment plan by 24 hours a day, hour by 15 minutes divided into 96 deployment periods. bit0-95: 0: The time is not deployed; 1: The deployment time
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	
decoder_baud	Decoder baud rate

upgrade_firmware.cgi

Description: The device firmware upgrade
Authorization：manager
Grammar：/upgrade_firmware.cgi[?user=&pwd=&next_url=]

Note: The cgi must use post method, the documents will need to upgrade package sent to the ip camera.

upgrade_htmls.cgi

Description: Web interface upgrade equipment

Authorization: manager

Grammar \/upgrade_htmls.cgi[?user=&pwd=&next_url=]

Note: The cgi must use post method, the documents will need to upgrade package sent to the ip camera.

set_alias.cgi

Description: Set the device alias parameters

Authorization: manager
Syntax:：/set_alias.cgi?alias=[&user=&pwd=&next_url=]

Parameters:

alias: device alias, length <= 20

set_datetime.cgi

Description: Set the device date and time parameters

Authorization:manager

Syntax: /set_datetime.cgi?tz=&ntp_enable=&ntp_svr=[&now=&user=&pwd=&next_url=]

Parameters：

now	From 1970-1-1 0:0:0 to the specified number of seconds elapsed time, such as additional to the

	parameters of the equipment is based on the time when the school
tz	Set time zone: GMT and standard deviation of the number of seconds
ntp_enable	0: Prohibition of school when ntp; 1: allow
ntp_svr	0: Prohibition of school when ntp; 1: allow

set_users.cgi

Description: Set the device date and time parameters

Authorization :manager

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=]

Parameters：

user1	The user a name, length <= 12
pwd1	The user a password, length <= 12
pri1	1 user permissions, 0: visitors; 1: operator; 2: Administrator
…	
user8	The name of the user 8
pwd8	The name of the user 8
pri8	8 user permissions

set_devices.cgi

Description: Set the device date and time parameters

Authorization : manager

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=]

Parameters：

dev2_alias	The second road equipment, alias, length <= 20
dev2_host	The second way device address, length <= 64

dev2_port	The second way device port
dev2_user	The second way to access the user equipment, length <= 12
dev2_pwd	Second Road Device Access Password, length <= 12
…	
dev4_alias	Fourth Road Equipment alias
dev4_host	Fourth Way device address
dev4_port	Fourth Way device port
dev4_user	Fourth Road access to the user equipment
dev4_pwd	Fourth Way Device Access Password

set_network.cgi

Description: Set the parameters of the basic network equipment
Authorization：manager
Syntax：/set_network.cgi?ip=&mask=&gateway=&dns=&port=[&user=&pwd=&next_url=]

Parameters：

ip	ip address, if ip is set to null, the dynamic ip and neglected to obtain the following mask, gateway, dns parameter
mask	Subnet mask
gateway	Gateway
dns	dns server
port	Port

set_wifi.cgi

Description：Setting device wifi **Parameters**
Authorization：manager

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=[&user=&pwd=&next_url=]

Parameters：

enable	0: Forbidden wifi function; 1: allow
ssid	To join the wifi network ssid, length <= 40

channel	Reserved = 5
mode	Reserved = 0
encrypt	0: No encryption; 1: wep encryption; 2: wpa tkip; 3: wpa aes; 4: wpa2 aes; 5: wpa2 tkip + aes
authtype	wep calibration mode, 0: open; 1: share
keyformat	wep key format, 0:16 hexadecimal numbers; 1: ascii characters
defkey	wep key choice in :0-3
key1	wep key 1, length <= 30
key2	wep key 2
key3	wep key 3
key4	wep key 4
key1_bits	wep key 1 length, 0:64 bits; 1:128 bits
key2_bits	wep key 2 length, 0:64 bits; 1:128 bits
key3_bits	wep key 3 length, 0:64 bits; 1:128 bits
key4_bits	wep key 4 length, 0:64 bits; 1:128 bits
wpa_psk	wpa psk key, length <= 64

set_pppoe.cgi

Description: Set the device pppoe options

Authorization：manager

Syntax
：/set_pppoe.cgi?enable=&user=&pwd=&mail_ip=[&cam_user=&cam_pwd=&next_url=]

Parameters：

enable	0: Prohibition of 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

Authorization：manager

Syntax：
/set_upnp.cgi?enable=[&user=&pwd=&next_url=]

Parameters：

enable	0: Forbidden upnp mapping function; 1: allow

set_ddns.cgi

Description: Set the device ddns options

Authorization：manager

Syntax：

/set_ddns.cgi?service=&user=&pwd=&host=&proxy_svr=&proxy_port=[&restart_dyndns=&cam_user=&cam_pwd=&next_url=]

Parameters：

service	0: Prohibition of Service DDNS
	1: Peanut Shell
	2：DynDns.org(dyndns)
	3：DynDns.org(statdns)
	4：DynDns.org(custom)
	5：Reserved
	6：Reserved
	7：Reserved
	8：3322(dyndns)
	9：3322(statdns)
user	ddns user，length <= 64
pwd	Ddns password，length <= 64
host	Ddns Domain name，length <= 64
proxy_svr	Proxy server address (only used dyndns service in mainland China), length <= 64
proxy_port	Proxy server port
restart_dyndns	1：Again updata dyndns；0：forbidden

set_ftp.cgi

Description: Set the device ftp options

Authorization：manager

Syntax：

/set_ftp.cgi?svr=&port=&user=&pwd=&mode=&dir=&upload_interval=[&cam_user=&cam_pwd=&next_url=]

Parameters：

svr	ftp Server Address，length <= 64
port	ftp Server port

user	ftp Server Login user，length <= 64
pwd	ftpServer Login Password，length <= 64
dir	ftp Store directory on the server，length <= 64
mode	0：port mode；1：pasv mode
upload_interval	即刻上传图片的间隔（秒），interval (seconds) of upload pictures instantly 0：forbidden，0-65535

set_mail.cgi

Description: Set the device e-mail options
Authorization：manager
Grammar：

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

Parameter：

svr	Mail server address，length<= 64
port	Mail service port
user	Mail server log in user,，length <= 64
pwd	Mail server password，length <= 64
sender	Mail Receiver 1，length <= 64
receiver1	Mail Receiver 1，length <= 64
receiver2	Mail Receiver 2，length <= 64
receiver3	Mail Receiver 3，length <= 64
receiver4	Mail Receiver 4，length <= 64

set_alarm.cgi

Description: Set the device alarm option
Authorization：manager
Grammar：

/set_alarm.cgi?motion_armed=&motion_sensitivity=&input_armed=&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=&user=&pwd=&next_url=]

Parameter：

motion_armed	0: Mobile detection disarm; 1: deployment
motion_sensitivity	0-9：High - low

input_armed	0: Input test disarm; 1: deployment
ioin_level	io enter the alarm trigger level, 0: low, 1: High
iolinkage	0: alarm linkage against io; 1: allow
ioout_level	linkage output level, 0: low, 1: High
mail	0: Alarm mail notification when the ban; 1: allow
upload_interval	Interval (second) of upload picture when alarm，0：forbidden，0-65535
schedule_enable	Whether adopt the deployment plan
schedule_sun_0	Sunday deployment plan by 24 hours a day and 15 minutes，divided into 96 deployment periods. bit0-95: 0: The time is not deployed; 1: The deployment time
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	

comm_write.cgi

Description: Though the camera's serial port send data, only some models is effective
Authorization：Operator
Grammar：/comm_write.cgi?port=&baud=&bytes=&data=[&user=&pwd=&next_url=]

Parameter：

port：Serial port，0-3

baud：Serial baud rate

9：B1200

11：B2400
12：B4800
13：B9600
14：B19200
15：B38400;
4097：B57600
4098：B115200

bytes：send bytes quantity of data < 256

data： send the data, application url encoding

set_forbidden.cgi

Description: Set the camera whether it prohibit audio information
Authorization：manage
Grammar：

/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	Whether adopt the deployment plan
schedule_sun_0	Sunday deployment plan by 24 hours a day and 15 minutes，divided into 96 deployment periods. bit0-95: 0: The time is not deployed; 1: The deployment time
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	

get_forbidden.cgi

Description：Acquire the camera video information if it is prohibited

Authorization：manage
Grammar：/get_forbidden.cgi[?user=&pwd=]
reture：see set_forbidden.cgi

set_misc.cgi

Description: Set the parameters of the camera Miscellaneous
Authorization：manage
Grammar：

/set_misc.cgi?[led_mode=&ptz_center_onstart=&ptz_auto_patrol_interval=&ptz_auto_patrol_type=&ptz_patrol_h_rounds=&ptz_patrol_v_rounds=&user=&pwd=&next_url=]

Parameter：

led_mode：0：mode 1；1：mode 2；2：Turn off lights

ptz_center_onstart：=1, cencer after boot

ptz_auto_patrol_interval：Auto Tour setting，=0：Not automatical visit

ptz_auto_patrol_type：0：Null；1：Horizontal；2：Level；3：Horizontal + vertical

ptz_patrol_h_rounds：Horizontal visits laps，0：Infinite

ptz_patrol_v_rounds：Vertical visits laps，0：Infinite

ptz_patrol_rate：Cruising speed benchmark，0-100，0：Fastest

ptz_patrol_up_rate：Cruiseing speed up：0-100，0：slowest

ptz_patrol_down_rate：Cruising speed down：0-100，0：slowest

ptz_patrol_left_rate：Cruising speed left：0-100，0：slowest

ptz_patrol_right_rate：Cruising speed right：0-100，0：slowest

get_misc.cgi

Description: Acquire miscellaneous parameters for the camera

Authorization：manage
Grammar：/get_misc.cgi[?user=&pwd=]
Return：see get_misc.cgi

set_decoder.cgi

Description: Set the camera parameters of the decoder

Authorization：manage
Grammar：/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: command camera Search wireless network
Authorization：manage
Grammar：/wifi_scan.cgi [?user=&pwd=&next_url=]

Parameter：Null

get_wifi_scan_result.cgi

Description: Acquire search results about wireless camera
Authorization：manage
Grammar：/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：search quantity of ap

ap_bssid：searched ap bssid

ap_ssid：searched ap ssid

ap_mode：searched ap mode，0：infra，1：adhoc（Not supported）

ap_security：searched ap safe mode，

0：Null；

1：WEP；

2：WPAPSK(TKIP)；

3：WPAPSK(AES)；

4：WPA2PSK(AES)；

5：WPA2PSK(TKIP)；

6：can’t support safe mode

get_log.cgi

Description：Acquire the camera logs

Authorization：manage

Grammar：/get_log.cgi[?user=&pwd=]

return： log information，for example

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';

Store variable log_text information, every log message separated by '\ n'
test_mail.cgi

Description：Test mail function

Authorization：manage

Grammar：/test_mail.cgi[?user=&pwd=]

return：

result：test result

0: Success

-1: fail to connect to server

-2: Network is error

-3: Server is error

-4: Wrong users

-5: Wrong password

-6: Sender was rejected

-7: Recipient was rejected

-8: The body was rejected

-9: Authentication is not accepted

test_ftp.cgi

Description：ftp function test

Authorization：manage

Grammar：/test_ftp.cgi[?user=&pwd=]

return：

result：result of text

0: Success

-1: fail to connect to server

-2: Network is error

-3: Server is error

-4: Wrong users

-5: Wrong password

-6: Wrong directory

-7: Pasv mode is error

-8: Port model is error

-9: Stor command is error

backup_params.cgi

Description：Back up the current parameter settings

Authorization：manage

Grammar：/backup_params.cgi[?user=&pwd=]

return：params.bin document

restore_params.cgi

Description：Restore parameters setting what the previous backup

Authorization：manage

Grammar：/restore_params.cgi[?user=&pwd=&next_url=]

Note: The cgi must use post method, set file of the parameters of the previous backup and package , sent to the ip camera.

set_mac.cgi

Description：Set mac address of the camera

Authorization：manage

Grammar：/set_mac.cgi?mac=[&user=&pwd=&next_url=]

Parameter：

mac：mac address：such as mac=0012a0746f01