

HTTP制御API

Version 1.0

For

C1002W /C1002RW

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C1002 HTTP API Programming guide

General rule:

CGI authentication: Three levels authorization required for different CGI command, **Visitor, Operator, Administrator** according to http Basic authentication mechanism.

Get or Post: Only GET & POST is supported. upgrade_firmware.cgi & upgrade_htmls.cgi only support POST, others support GET.

Example:

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 return:

According to return message, there are two categories CGI commands

Cat.1: To obtain C1002 status and settings, will return status, and settings. ex.:
get_status.cgi & get_params.cgi

```
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' ;
```

Cat.2: To control C1002, will return operation results. If success will return “ok”, if failed will return ex.: “error: illegal param” to indicate wrong parameters given. If don't want return “ok” after successful operation, can add **next_url** in CGI parameters to go to. The path used should be relative path.

snapshot.cgi

Description : snapshot

Authorization : Visitor

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

Parameter:

next_url : filename

user: username

pwd: password

Note :

If no next_url parameter, return filename will be:

Device ID (alias)_time.jpg

http://www.ipcamera.com.tw:8206/snapshot.cgi?next_url=a.jpg

filename a.jpg will get

<http://www.ipcamera.com.tw:8206/snapshot.cgi>

will get 001E1A01002A(C1002)_19700101034208.jpg as filename

[http://C1002 IP Address/snapshot.cgi?user=admin&pwd=](http://C1002_IP_Address/snapshot.cgi?user=admin&pwd=)

Username: **admin**

Password:

(no password)

Two Authentication approaches supported:

1. http commands Basic authorization

2. Embedded the username/password in http command line

Videostream.cgi

Description: Server Push, push jpeg video stream to client

Authorization: Visitor

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

Parameter:

user: username

pwd: password

http://C1002_IP_Address/videostream.cgi?user=admin&pwd=

Username: **admin**

Password:

(no password)

Two Authentication approaches supported:

http commands Basic authorization

Embedded the username/password in http command line

get_status.cgi**Description:** Status**Authorization:** Visitor**Syntax:** /get_status.cgi**Retrun:****now:** Seconds from 1970-1-1 0:0:0 to present time**alarm_status:** 0: Disable; 1: Motion Detect; 2: Alarm in**ddns_status:** ddns status

0	Disable
1	Connecting
2	Failed
3	DynDns Success
4	DynDns fail: System error
5	DynDns fail: Username or password error
6	DynDns fail: Not Registered
7	DynDns fail: Domail name error
8	DynDns fail: Domain not exist
9	DynDns fail: Domain is not yours
10	DynDns fail: Too much (few) requests
11	DynDns fail: Abused domain
12	DynDns fail: DDNS Server error
13	DynDns fail: No response from server
14	Oray fail: No response from server
15	Oray fail: Username or password error
16	Oray fail: Domail name error
17	Oray success
18	Reserved
19	Reserved
20	Reserved
21	Reserved

upnp_status: upnp status

0	Disable
1	Success
2	System error
3	Network error
4	Communication error
5	Rejected, possible port conflicts

camera_control.cgi**Description:** SENSOR control**Authorization:** Operator**Syntax:** /camera_control.cgi?param=&value=[&next_url=]**Parameter:**

param: Parameter

value: value

param	value
0: Resolution	8: qvga 320 x 240
	32: vga 640 x 480
1: Brightness	0 ~ 255
2: Contrast	0 ~ 6
3: Mode	0: 50hz
	1: 60hz
	2: Outdoor

reboot.cgi**Description:** Reboot**Authorization:** Administrator**Syntax:** /reboot.cgi[?next_url=]**restore_factory.cgi****Description:** Reset to factory default**Authorization:** Administrator**Syntax:** /restore_factory.cgi[?next_url=]

get_params.cgi**Description:** Get camera system information**Authorization:** Administrator**Syntax:** /get_params.cgi**Return:**

id	Device id
sys_ver	Firmware version
app_ver	Web UI version
alias	Alias
now	Seconds from 1970-1-1 0:0:0 to present time
tz	Time zone difference from Greenwich time in seconds
ntp_enable	Synchronize with NTP server, 0: Disable; 1: Enable
ntp_svr	NTP server
user1_name	User name 1
user1_pwd	User 1 password
user1_pri	User 1 authorization, 0: Visitor; 1: Operator; 2: Administrator
...	
user8_name	User name 8
user8_pwd	User 8 password
user8_pri	User 8 authorization, 0: Visitor; 1: Operator; 2: Administrator
dev2_alias	Channel 2 Alias
dev2_host	Channel 2 IP Address
dev2_port	Channel 2 port
dev2_user	Channel 2 Username
dev2_pwd	Channel 2 Password
...	
dev4_alias	Channel 4 Alias
dev4_host	Channel 4 IP Address
dev4_port	Channel 4 port
dev4_user	Channel 4 Username
dev4_pwd	Channel 4 Password
ip	Ip address
mask	Subnet mask
gateway	Gateway ip
dns	DNS server ip
port	port
wifi_enable	Wi-Fi 0: Disable; 1: Enable

wifi_ssid	wifi ssid
wifi_encrypt	0: Disable encryption ; 1: Enable encryption
wifi_defkey	WEP key 64/128 bit
wifi_key1	WEP key 1
wifi_key2	WEP key 2
wifi_key3	WEP key 3
wifi_key4	WEP key 4
pppoe_enable	0: Disable PPPoE; 1: Enable
pppoe_user	PPPoE account
pppoe_pwd	PPPoE password
pppoe_mail_ip	1: send IP to mail box after PPPoE success; 0: Disable
upnp_enable	0: upnp Disable; 1: Enable
ddns_service	0: Disable ddns service
	1: Oray
	2: DynDns.org (dyndns)
	3: DynDns.org (statdns)
	4: DynDns.org (custom)
	5: Reserved
	6: Reserved
7: Reserved	
ddns_user	DDNS username
ddns_pwd	DDNS password
ddns_host	DDNS domain name
ddns_proxy_svr	Proxy server IP (only required in China for dyndns server)
ddns_proxy_port	Proxy server port
mail_svr	Mail server IP
mail_user	Mail server username
mail_pwd	Mail server password
mail_sender	Mail sender
mail_receiver1	Mail receiver 1
mail_receiver2	Mail receiver 2
mail_receiver3	Mail receiver 3
mail_receiver4	Mail receiver 4
ftp_svr	ftp server IP
ftp_port	ftp server port
ftp_user	ftp server username
ftp_pwd	ftp server password
ftp_dir	ftp server folder
ftp_mode	0: port ; 1: pasv
ftp_upload_interval	FTP upload interval (secs); 0: Disable
alarm_motion_armed	0: Disable 1: Enable
alarm_input_armed	0: Disable 1: Enable
alarm_iolinkage	0: Disable 1: Enable alarm out

alarm_mail	0: Disable 1: Enable alarm email
alarm_upload_interval	Alarm snapshots upload interval (secs); 0: Disable

upgrade_firmware.cgi

Description: Upgrade Firmware

Authorization: Administrator

Syntax: /upgrade_firmware.cgi[?next_url=]

Remark: POST command.

upgrade_htmls.cgi

Description: Upgrade WEB UI

Authorization: Administrator

Syntax: /upgrade_htmls.cgi[?next_url=]

Remark: POST command.

set_alias.cgi

Description: SET alias

Authorization: Administrator

Syntax: /set_alias.cgi?alias=[&next_url=]

Parameter: alias: alias <= 20 characters

set_datetime.cgi**Description:** SET DATE & TIME**Authorization:** Administrator**Syntax:** /set_datetime.cgi?tz=&ntp_enable=&ntp_svr=[&now=&next_url=]**Parameter:**

now	Seconds from 1970-1-1 0:0:0 to present time, if followed parameter, set time according to parameter
tz	Time zone difference from Greenwich time in seconds
ntp_enable	Synchronize with NTP server, 0: Disable; 1: Enable
ntp_svr	NTP server name <= 64 characters

set_users.cgi**Description:** SET USER ACCOUNTS**Authorization:** Administrator**Syntax:**

```
/set_users.cgi?user1=&pwd1=&pri1=&user2=&pwd2=&pri2=&user3=&pwd3=&
pri3=&user4=&pwd4=&pri4=&user5=&pwd5=&pri5=&user6=&pwd6=&pri6=&us
er7=&pwd7=&pri7=&user8=&pwd8=&pri8=[&next_url=]
```

Parameter:

user1	User name 1 < =12 characters
pwd1	User 1 password < =12 characters
pri1	User 1 authorization, 0: Visitor; 1: Operator; 2: Administrator
...	
user8	User name 8 < =12 characters
pwd8	User 8 password < =12 characters
pri8	User 8 authorization, 0: Visitor; 1: Operator; 2: Administrator

set_devices.cgi**Description:** SET multiple C1002 cameras**Authorization:** Administrator**Syntax:**

```
/set_devices.cgi?dev2_alias=&dev2_host=&dev2_port=&dev2_user=&dev2_p
wd=&dev3_alias=&dev3_host=&dev3_port=&dev3_user=&dev3_pwd=&dev4_
alias=&dev4_host=&dev4_port=&dev4_user=&dev4_pwd=[&next_url=]
```

Parameter:

dev2_alias	Channel 2 Alias < =20 characters
dev2_host	Channel 2 IP Address < =64 characters
dev2_port	Channel 2 port
dev2_user	Channel 2 Username < =12 characters
dev2_pwd	Channel 2 Password < =12 characters
...	
dev4_alias	Channel 4 Alias < =20 characters
dev4_host	Channel 4 IP Address < =64 characters
dev4_port	Channel 4 port
dev4_user	Channel 4 Username < =12 characters
dev4_pwd	Channel 4 Password < =12 characters

set_network.cgi**Description:** SET NETWORK Parameters**Authorization:** Administrator**Syntax:**

/set_network.cgi?ip=&mask=&gateway=&dns=&port=[&next_url=]

Parameter:

ip	Ipaddress, if blank, get by DHCP and ignore subnet mask、 gateway、 dns set below
mask	Subnet mask
gateway	gateway
dns	Dns server ip
port	port

set_wifi.cgi**Description :** SET Wi-Fi Parameters**Authorization :** Administrator**Syntax :**

```
/set_wifi.cgi?enable=&ssid=&encrypt=&defkey=&key1=&key2=&key3=&key4=
[&next_url=]
```

Parameter:

enable	0: Disable wifi; 1 Enable
ssid	Wi-Fi ssid, <= 40 characters
encrypt	0: Disable; 1: Enable WEP
defkey	WEP Key : 0-3
key1	WEP key 1, <= 30 characters
key2	WEP key 2 <= 30 characters
key3	WEP key 3 <= 30 characters
key4	WEP key 4 <= 30 characters

set_pppoe.cgi**Description :** SET PPPoE Parameters**Authorization :** Administrator**Syntax :**

```
/set_pppoe.cgi?enable=&user=&pwd=&mail_ip=[&next_url=]
```

Parameter:

enable	0: Disable pppoe; 1: Enable
user	Pppoe account, <= 40 characters
pwd	Pppoe password, <= 40 characters
mail_ip	1: send IP to mail box after PPPoE success; 0: Disable

set_upnp.cgi**Description:** SET UPnP Parameters**Authorization:** Administrator**Syntax:**

/set_upnp.cgi?enable=[&next_url=]

Parameter:

enable	0: Disable upnp; 1: Enable
--------	----------------------------

set_ddns.cgi**Description:** SET PPPoE Parameters**Authorization:** Administrator**Syntax:**

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

Parameter:

service	0: Disable ddns service
	1: Oray
	2: DynDns.org (dyndns)
	3: DynDns.org (statdns)
	4: DynDns.org (custom)
	5: Reserved
	6: Reserved
	7: Reserved
user	DDNS username <= 20 characters
pwd	DDNS password <= 20 characters
host	DDNS domain name <= 40 characters
proxy_svr	Proxy server IP (only required in China for dyndns server) <= 20 characters
proxy_port	Proxy server port

set_ftp.cgi**Description :** SET FTP Parameters**Authorization :** Administrator**Syntax :**

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

Parameter:

svr	ftp server IP <= 64 characters
port	ftp server port
user	ftp server username <= 64 characters
pwd	ftp server password <= 64 characters
dir	ftp server folder
mode	0: port ; 1: pasv
upload_interval	FTP upload interval (0-65535 secs); 0: Disable

set_mail.cgi**Description :** SET EMAIL Parameters**Authorization :** Administrator**Syntax :**/set_mail.cgi?svr=&user=&pwd=&sender=&receiver1=&receiver2=&receiver3=
&receiver4=[&next_url=]**Parameter:**

参数:

svr	Mail server IP <= 40 characters
user	Mail server username <= 20 characters
pwd	Mail server password <= 20 characters
sender	Mail sender <= 40 characters
receiver1	Mail receiver 1 <= 40 characters
receiver2	Mail receiver 2 <= 40 characters
receiver3	Mail receiver 3 <= 40 characters
receiver4	Mail receiver 4 <= 40 characters

set_alarm.cgi**Description:** SET ALARM Parameters**Authorization:** Administrator**Syntax:**

```
/set_alarm.cgi?motion_armed=&input_armed=&iolinkage=&mail=&upload_interval=[&next_url=]
```

Parameter:

motion_armed	0: Disable 1: Enable
input_armed *1	0: Disable 1: Enable
iolinkage *1	0: Disable 1: Enable alarm out
mail	0: Disable 1: Enable alarm email
upload_interval	Alarm snapshots upload interval (0-65535 secs); 0: Disable

*1 屋外用モデルのみ対応