

網路攝像機 **HTTP CGI** 說明書

IP Camera HTTP CGI Specifications

VER. 1.0.10

修改記錄

Revise Record

版本 VER.	日期 Date	描述 Description
1.0.0	2017 年 12 月 12 日 Dec. 8, 2017	創建 IPC HTTP CGI 說明書ver1.0.0 Create the IPC HTTP CGI specification ver1.0.0
1.0.1	2019 年 2 月 26 日 Feb. 26,2019	添加移動偵測 GET 和 SET 的 CGI 介面 Add CGI interface for motion detection of GET and SET
1.0.2	2019 年 9 月 27 日 Set. 27,2019	增加 1、用戶管理 API，2、獲取設備型號 API，3、恢復出廠，保留網路配置 API，4、設備升級功能，5、截圖保存功能 API。 Add 1, user management API, 2, acquisition of device model API, 3, restore the factory, retain network configuration API, 4, equipment upgrade function, 5, screenshot preservation API.
1.0.3	2019 年 11 月 11 日 Nov. 11,2019	增加獲取錄影檔的 CGI 介面。 Added CGI interface for obtaining video files.
1.0.4	2019 年 12 月 10 日 Dec. 10,2019	增加獲取 RTMP 配置和設置的介面。 Added interface to get RTMP configuration and settings.
1.0.5	2020 年 1 月 16 日 Jan.16,2020	增加攝像機設置的參數，一些服務的狀態。 Increase the parameters set by the camera and the status of some services.
1.0.6	2020 年 3 月 27 日 Mar.27.2020	增加 HTTPS 證書上傳和私密金鑰上傳的介面 Add interfaces for HTTPS certificate upload and private key upload
1.0.8	2020 年 9 月 27 日 Sep.27.2020	添加自訂 OSD 介面 Add UserOSD interface
1.0.9	2020 年 11 月 16 日 Nov.27.2020	支援 CGI 設置 50/60Hz，CGI 控制日夜模式轉換，CGI 控制開關燈，CGI 可控制埠開關 Support CGI setting 50/60Hz, CGI control day and night mode conversion, CGI control switch light, CGI control port switch
1.0.10	2022 年 4 月 27 日 April.27.2022	支援 URL 跳過登錄介面，CGI 設置 UID 有效時間，CGI 手動觸發 io 輸入告警，cgi 設置 onvif 配置，cgi 設置 rtsp 配置，cgi 獲取繼電器位置狀態，cgi 設置繼電器位置狀態，cgi 設置手動快門速度， Support URL skip login interface, CGI set UID valid time, CGI manually trigger io input alarm, cgi set onvif configuration, cgi set rtsp configuration, cgi get relay position status, cgi set relay position status, cgi set manual shutter speed
		setManualInputAlarm

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1. HTTP 請求與回應的格式

1. The format of the HTTP request and response

1) HTTP GET 請求，把請求的內容填充在HTTP URL 中。

1) To request with HTTP GET, write the contents of the request in the HTTP URL.

2) 如果?之後不帶配置參數則是查詢配置，返回當前配置資訊；如果?之後帶配置參數則是設置，設置成功之後返回生效的配置參數。

例如 查詢配置 /cgi-bin/network?uid=XXXXXXXXX

 設置配置 /cgi-bin/network?dhcp=0&uid=XXXXXXXXX

2) If there is no configuration parameter behind the question mark, it is the query configuration to return the current configuration information;If the configuration parameter behind the question mark is set, the configuration parameter returned to take effect after the success is set.

For example

 Query configuration /cgi-bin/network?uid=XXXXXXXXX

 Set the configuration /cgi-bin/network?dhcp=0&uid=XXXXXXXXX

3) 請求失敗時在回應的報文中返回錯誤的原因，格式為：

```
<?xml version="1.0" encoding="UTF-8"?>
<fault>
<value>describe the value</value>
<reason>describe the reason</reason>
</fault>
```

3) The cause of the error returned in the response message when the request failed. Message format for example

```
<?xml version="1.0" encoding="UTF-8"?>
<fault>
<value>describe the value</value>
<reason>describe the reason</reason>
</fault>
```

2. CGI 介面清單

2. The interface list

序號 No.	請求的 URL The requested URL	描述 Description
1	/cgi-bin/getuid?username=xxxx&password=xxxx	獲取 user id Request user id
2	/cgi-bin/keep_alive?uid=XXXXXXXXX	心跳 Keep alive
3	/cgi-bin/getinfo?uid=XXXXXXXXX	設備資訊 Version information

4	/cgi-bin/getcapabilities?uid=XXXXXXXXXX	能力集 capabilities
5	/cgi-bin/reboot?uid=XXXXXXXXXX	重啟 reboot
6	/cgi-bin/factory_reset?uid=XXXXXXXXXX	恢復出廠設置 Restore default Settings
7	/cgi-bin/network?uid=XXXXXXXXXX	網路配置 network
8	/cgi-bin/time?uid=XXXXXXXXXX	時間 time
9	/cgi-bin/videoencoder/getcapabilities?uid=XXXXXXXXXX	視頻編碼能力集 Video encoding capabilities
10	/cgi-bin/videoencoder?uid=XXXXXXXXXX	視頻編碼配置 Video encoding configuration
11	/cgi-bin/audioencoder/getcapabilities?uid=XXXXXXXXXX	音訊編碼能力集 Audio encoding capabilities
12	/cgi-bin/audioencoder?uid=XXXXXXXXXX	音訊編碼配置 Audio encoding configuration
13	/cgi-bin/osd?uid=XXXXXXXXXX	OSD
14	/cgi-bin/image?uid=XXXXXXXXXX	圖像 image
15	/cgi-bin/ptz_ctrl?stop=1&uid=XXXXXXXXXX	雲台控制 PTZ
16	/cgi-bin/motion?uid=XXXXXXXXXX	移動偵測 Motion
17	/cgi-bin/getmodel?uid=XXXXXXXXXX	獲取設備型號 Model
18	/cgi-bin/user_management?uid=XXXXXXX	用戶管理 User Management
19	/cgi-bin/snapshot.cgi?uid=XXXXXXXXXX	抓圖上傳 snapshot upload
20	POST /cgi-bin/OnvifFirmwareUpgrade HTTP/1.1	固件升級 Upgrade Firmware
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3. 介面說明

3. Interface specification

首先需要使用 /cgi-bin/getuid 介面獲取 user id，其他介面都需要驗證 user id。User id 60 秒超時，失效之後需要重新請求 user id。每次成功請求 cgi 介面之後重新計算超時時間，如果長時間沒有請求但又希望 user id 不失效，可以使用 /cgi-bin/keep_alive 介面保持心跳。

First you need to get the user id using the /cgi-bin/getuid interface. The other interfaces need to authenticate the user id. User id timeout for 60 seconds, user id needs to be requested again after expiration. After each successful request cgi interface to recalculate the timeout, if there is no request for a long time and hope user id does not expire, you can use the /cgi-bin/keep_alive interface to keep the heartbeat.

3.1 獲取 user id

3.1 Get user id

/cgi-bin/getuid?username=xxxx&password=xxxx

參數名稱 Parameter name	參數值 Parameter value	描述 Description
username	字母和數位 Letters and Numbers	IPC 用戶名 IPC username
password	字母和數位 Letters and Numbers	IPC 密碼 IPC password

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <uid>XXXXXXXX</uid>	請求成功，uid 是 XXXXXXXX The request was successful, uid is XXXXXXXX
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/getuid</value> <reason>error, parse parameters</reason> </fault>	獲取參數失敗 Failed to get parameters
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/getuid</value> <reason>error, parse username</reason> </fault>	獲取用戶名失敗 Failed to get username

400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/getuid</value> <reason>error, parse password</reason> </fault>	獲取密碼失敗 Failed to get password
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/getuid</value> <reason>password error</reason> </fault>	密碼錯誤 Wrong password

3.2 心跳

3.2 Keep alive

/cgi-bin/keep_alive?uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <keep_alive>true</keep_alive>	請求成功 The request was successful
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/keep_alive</value> <reason>error, parse parameters</reason> </fault>	獲取參數失敗 (此回應訊息在其他 CGI 介面請求出錯時也可能出現，下文不做重複解釋) Failed to get parameters (This response message may also appear in the request of other CGI interface error, the following will not be repeated explanation)
400	<?xml version="1.0" encoding="UTF-8"?> <fault>	獲取 uid 失敗 (此回應訊息在其他 CGI 介面請

	<value>/cgi-bin/keep_alive</value> <reason>error, parse uid</reason> </fault>	求出錯時也可能出現，下文不做重複解釋) Failed to get uid (This response message may also appear in the request of other CGI interface error, the following will not be repeated explanation)
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/keep_alive</value> <reason>uid error</reason> </fault>	uid 錯誤或者已經超時失效 (此回應訊息在其他 CGI 介面請求出錯時也可能出現，下文不做重複解釋) uid error or invalid timeout (This response message may also appear in the request of other CGI interface error, the following will not be repeated explanation)

3.3 獲取設備資訊

3.3 Version information

/cgi-bin/getinfo?
/cgi-bin/getinfo?uid=XXXXXXXX

說明：getinfo 沒有加入用戶名或者密碼認證的時候，可以輸出 OEM 的資訊和 MAC 位址，如果加上認證之後，可以獲取設備的所有的資訊。

Note: When getinfo is not added with user name or password authentication, it can output OEM information and MAC address. If authentication is added, all information of the device can be obtained.

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description

200	<?xml version="1.0" encoding="UTF-8"?> <info oem="MCL12" mac_address="00:4F:5C:00:01:00"/>	請求成功。參數的值是： oem：設備型號 mac_address：MAC物理位址 The request was successful. The value of the parameter is: oem: device model mac_address: MAC physical address
200	<?xml version="1.0" encoding="UTF-8"?> <info kernel="Linux 3.18.30 #15 PREEMPT Fri Mar 30 15:27:46 CST 2018 armv7l" filesystem="MCL12" sn="EF0000000029069F" oem="MCL12" mac_address="00:4F:5C:00:01:00"/>	請求成功。參數的值是： kernel：內核版本 filesystem：檔案系統版本 sn：產品序號 The request was successful. The value of the parameter is: kernel: Kernel version filesystem: File system version sn: Product serial number

3.4 能力集

3.4 Get capabilities

/cgi-bin/getcapabilities?uid=XXXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <capabilities video="1" audio="1" ptz="0"/>	請求成功。參數的值 1 支持，0 不支持。 video：是否支援視頻 audio：是否支援音訊 ptz：是否支援雲台控制 The request was successful. The value of parameter 1 is supported, 0 is not supported.

		video: Whether to support video audio: Whether to support audio ptz: Whether to support PTZ
--	--	---

3.5 重啟

3.5 Reboot

/cgi-bin/reboot?uid=XXXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <reboot>true</reboot>	請求成功 The request was successful.

3.6 恢復出廠設置

3.6 Restore default Settings

/cgi-bin/factory_reset?uid=XXXXXXXXX

/cgi-bin/factory_reset?retain_network=1&uid=XXXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
retain_network	數字 1 Number 1	1：表示恢復出廠會保留設備的網路配置。 1: Represents that restoring the factory will retain the network configuration of the device.

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <factory_reset>true</factory_reset>	請求成功 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/factory_reset</value> <reason>retain_network 0 or 1</reason> </fault>	獲取參數失敗 retain_network 參數只能是 1，是其餘的參數出錯。 The retain network parameter can only be 1. The rest of the parameters are wrong.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/factory_reset</value> <reason>retain_network: NULL</reason> </fault>	獲取參數失敗 retain_network 參數為空的時候，上報錯誤。 When the retain_network parameter is empty, an error is reported.

3.7 網路配置

3.7 Network Configuration

/cgi-bin/network?uid=XXXXXXX
 /cgi-bin/network?dhcp=0&uid=XXXXXXX
 /cgi-bin/network?ipaddr=192.168.4.65&netmask=255.255.255.0&gateway=192.168.4.1&uid=XX
 XXXXXX
 /cgi-bin/network?dns1=114.114.114.114&dns2=8.8.8.8&uid=XXXXXXX
 /cgi-bin/network?port=80&uid=XXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
dhcp	選項(Option): 1 0	1 啟用 DHCP，0 禁用 DHCP 1 Enable DHCP, 0 Disable DHCP
ipaddr		IP 地址 IP address
netmask		子網路遮罩 Subnet mask
gateway		閘道地址 Gateway address
dns1		首先 DNS Preferred DNS
dns2		備用 DNS

		Standby DNS
port	數字 80 或從 1000 至 65535 Numbers 80 or from 1000 to 65535	埠 Server port

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <network macaddr="XX-XX-XX-XX-XX-XX" dhcp="0" ipaddr="192.168.0.10" netmask="255.255.255.0" gateway="192.168.0.1" dns1="114.114.114.114" dns2="8.8.8.8" port="80"/>	請求成功。參數的值是： macaddr : MAC 地址 dhcp : 1 啟用 DHCP , 0 禁用 DHCP ipaddr : IP 地址 netmask : 子網路遮罩 gateway : 閘道地址 dns1 : 首先 DNS dns2 : 備用 DNS port : 埠 The request was successful. The value of the parameter is: macaddr: MAC address dhcp: 1 Enable DHCP, 0 Disable DHCP ipaddr: IP address netmask: Subnet mask gateway: Gateway address dns1: Preferred DNS dns2: Standby DNS port: Server port
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/network</value> <reason>dhcp: 0 or 1</reason> </fault>	參數 dhcp 錯誤 (其他參數的錯誤提示類似，不重複解釋) Parameter dhcp error (Other parameters similar to the wrong tips do not repeat the explanation)

3.8 時間

3.8 Time

/cgi-bin/time?uid=XXXXXXX
 /cgi-bin/time?timezone=GMT+08:00&uid=XXXXXXX
 /cgi-bin/time?update_method=MANUAL&year=2017&month=11&day=30&hour=8&min=0&sec=0&uid=XXXXXXX
 /cgi-bin/time?update_method=ntp&ntpaddr=pool.ntp.org&port=123&uid=XXXXXXX
 cgi-bin/time?update_method=ntp&ntpaddr=pool.ntp.org&port=123&update_period=60&uid=XX
 XXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
timezone	選項(Option): GMT+00:00 GMT+01:00 GMT+02:00 GMT+03:00 GMT+03:30 GMT+04:00 GMT+04:30 GMT+05:00 GMT+05:30 GMT+05:45 GMT+06:00 GMT+06:30 GMT+07:00 GMT+08:00 GMT+09:00 GMT+09:30 GMT+10:00 GMT+11:00 GMT+12:00 GMT+13:00 GMT-01:00 GMT-02:00 GMT-03:00 GMT-03:30 GMT-04:00 GMT-04:30 GMT-05:00 GMT-06:00 GMT-07:00	時區 Time zone

	GMT-08:00 GMT-09:00 GMT-10:00 GMT-11:00 GMT-12:00	
update_method	選項(Option): MANUAL NTP P2P	更新方式 Update method
year	數字 Numbers	年 year
month	數字 Numbers	月份 month
day	數字 Numbers	日期 day
hour	數字 Numbers	小時 hour
min	數字 Numbers	分鐘 minute
sec	數字 Numbers	秒鐘 Seconds
ntpaddr		NTP 啟服器地址 NTP server address
port	數字 80 或從 1000 至 65535 Numbers 80 or from 1000 to 65535	NTP 啟服器埠 NTP server port
update_period	數字從 60 至 999999 Numbers from 60 to 999999	ntp 同步間隔，間隔時間以秒為單位 ntp synchronization interval, interval time is in seconds

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <time timezone="GMT+08:00" update_method="ntp" ntpaddr="pool.ntp.org" port="123" current_time="2017-11-30 08:00:00"/>	請求成功。參數的值是： timezone : 時區 update_method : 更新方式 ntpaddr : NTP 啟服器地址 port : NTP 啟服器埠 current_time : 當前時間

		The request was successful. The value of the parameter is: timezone: Time zone update_method: Update method ntpaddr: NTP server address port: NTP server port current_time: Current time
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/time</value> <reason>timezone error</reason> </fault>	參數 timezone 錯誤 (其他參數的錯誤提示類似，不重複解釋) Parameter timezone error (Other parameters similar to the wrong tips do not repeat the explanation)

3.9 視頻編碼能力集

3.9 Video encoding capabilities

/cgi-bin/videoencoder/getcapabilities?uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <video_capabilities> <stream1> <encode_mode name="H264"> <resolution name="2592X1944"> <framerate_range>1-15</framerate_range> <bitrate_range>500-8000</bitrate_range> </resolution> <resolution name="1080P"> <framerate_range>1-30</framerate_range> <bitrate_range>500-6000</bitrate_range> </encode_mode> </stream1> </video_capabilities>	請求成功。參數的值是： stream1：主碼流 stream2：子碼流 encode_mode：編碼模式 resolution：解析度 framerate_range：幀率範圍 bitrate_range：碼率範圍 The request was successful. The value of the parameter is: stream1: Main stream

	<pre> </resolution> </encode_mode> <encode_mode name="H265"> <resolution name="2592X1944"> <framerate_range>1-15</framerate_range> <bitrate_range>500-6000</bitrate_range> </resolution> <resolution name="1080P"> <framerate_range>1-30</framerate_range> <bitrate_range>500-4000</bitrate_range> </resolution> </encode_mode> </stream1> <stream2> <encode_mode name="H264"> <resolution name="VGA"> <framerate_range>1-30</framerate_range> <bitrate_range>50-2000</bitrate_range> </resolution> <resolution name="480X360"> <framerate_range>1-30</framerate_range> <bitrate_range>50-2000</bitrate_range> </resolution> </encode_mode> <encode_mode name="H265"> <resolution name="VGA"> <framerate_range>1-30</framerate_range> <bitrate_range>50-2000</bitrate_range> </resolution> <resolution name="480X360"> <framerate_range>1-30</framerate_range> <bitrate_range>50-2000</bitrate_range> </resolution> </encode_mode> </stream2> </video_capabilities> </pre>	stream2: Sub stream encode_mode: Encode mode resolution: Resolution framerate_range: Framerate range bitrate_range: Bitrate range
--	--	---

3.10 視頻編碼配置

3.10 Video encoding configuration

/cgi-bin/videoencoder?uid=XXXXXXXX
 /cgi-bin/videoencoder/stream1?encode_mode=H265&resolution=1080P&framerate=25&govlen
 gth=100&bitrate=2500&bitrate_control=CBR&uid=XXXXXXXX

/cgi-bin/videoencoder/stream2?encode_mode=H265&resolution=480X360&framerate=25&govlength=100&bitrate=200&bitrate_control=CBR&uid=XXXXXXXX
/cgi-bin/videoencoder/stream3?encode_mode=H265&resolution=CIF&framerate=10&govlength=40&bitrate=100&bitrate_control=CBR&uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
encode_mode		編碼模式，通過/cgi-bin/videoencoder/getcapabilities 介面得到的選項 Encode_mode. Options available through the /cgi-bin/videoencoder/getcapabilities interface
resolution		解析度，通過/cgi-bin/videoencoder/getcapabilities 介面得到的選項 Resolution. Options available through the /cgi-bin/videoencoder/getcapabilities interface
framerate		幀率，通過/cgi-bin/videoencoder/getcapabilities 介面得到的選項 Framerate. Options available through the /cgi-bin/videoencoder/getcapabilities interface
govlength		1 帀間隔 Gov length
bitrate		碼率，通過/cgi-bin/videoencoder/getcapabilities 介面得到的選項 Bitrate. Options available through the /cgi-bin/videoencoder/getcapabilities interface
bitrate_control	選項(Option): CBR VBR	碼率控制類型 Bitrate control type
AdvanceEncodeConfig/profile	選項(Option): 0 ~ 1	視頻編碼配置 Video Encode Profile 0:default 1:baseprofile

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <videoencoder>	請求成功。參數的值是： stream1：主碼流

	<pre><stream1 encode_mode="H265" resolution="1080P" framerate="25" govlenth="100" bitrate="2500" bitrate_control="CBR"/> <stream2 encode_mode="H265" resolution="480X360" framerate="25" govlenth="100" bitrate="200" bitrate_control="CBR"/> </videoencoder></pre>	<p>stream2 : 子碼流 encode_mode : 編碼模式 resolution : 解析度 framerate_range : 帧率範圍 govlenth : 1幀間隔 bitrate_range : 碼率範圍 bitrate_control : 碼率控制類型</p> <p>The request was successful. The value of the parameter is: stream1: Main stream stream2: Sub stream encode_mode: Encode mode resolution: Resolution framerate_range: Framerate range govlenth: Gov length bitrate_range: Bitrate range bitrate_control: Bitrate control type</p>
400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/videoencoder/stream1</value> <reason>encode_mode error</reason> </fault></pre>	<p>參數 encode_mode 錯誤 (其他參數的錯誤提示類似，不重複解釋)</p> <p>Parameter encode_mode error (Other parameters similar to the wrong tips do not repeat the explanation)</p>

3.11 音訊編碼能力集

3.11 Audio encoding capabilities

/cgi-bin/audioencoder/getcapabilities?uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.

回應的報文

Response message

狀態碼 Status	內容 Content	描述 Description
---------------	---------------	-------------------

code		
200	<pre><?xml version="1.0" encoding="UTF-8"?> <audio_capabilities> <encode_type name="G.711"> <samplerate name="8000"> <bitrate>64000</bitrate> </samplerate> </encode_type> <encode_type name="G.711A"> <samplerate name="8000"> <bitrate>64000</bitrate> </samplerate> </encode_type> <encode_type name="AAC"> <samplerate name="16000"> <bitrate>16000</bitrate> </samplerate> </encode_type> </audio_capabilities></pre>	<p>請求成功。參數的值是：</p> <p>encode_type : 編碼類型 samplerate : 取樣速率 bitrate : 位元速率</p> <p>The request was successful. The value of the parameter is:</p> <p>encode_type: Encode type samplerate: Samplerate bitrate: Bitrate</p>

3.12 音訊編碼配置

3.12 Audio encoding configuration

```
/cgi-bin/audioencoder?uid=XXXXXXXXX
/cgi-bin/audioencoder?enable=0&uid=XXXXXXXXX
/cgi-bin/audioencoder?enable=1&uid=XXXXXXXXX
/cgi-bin/audioencoder?enable=1&encode_type=G.711&samplerate=8000&bitrate=64000&uid=X
XXXXXXXX
/cgi-bin/audioencoder?input_volume=60&output_volume=80&amplify=1&uid=XXXXXXXXX
```

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
enable	選項(Option): 1 0	1 啟用音訊，0 禁用音訊 1 Enable audio, 0 Disable audio
encode_type		編碼類型，通過/cgi-bin/audioencoder/getcapabilities 介面得到的選項 Encode type. Options available through the /cgi-bin/audioencoder/getcapabilities interface
samplerate		取樣速率，通過/cgi-bin/audioencoder/getcapabilities 介面得到的

		選項 Samplerate. Options available through the /cgi-bin/audioencoder/getcapabilities interface
bitrate		位元速率，通過/cgi-bin/audioencoder/getcapabilities 介面得到的選項 Bitrate. Options available through the /cgi-bin/audioencoder/getcapabilities interface
input_volume	數字 1 至 100 Numbers from 1 to 100	輸入音量 Input volume
output_volume	數字 1 至 100 Numbers from 1 to 100	輸出音量 Output volume
amplify	選項(Option): 1 0	1 啟用音訊功放，0 禁用音訊功放 1 Enable audio amplifier, 0 Disable audio amplifier

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<pre data-bbox="351 458 953 601"><?xml version="1.0" encoding="UTF-8"?> <audioencoder enable="1" encode_type="G.711" samplerate="8000" bitrate="64000" input_volume="60" output_volume="80" amplify="1"/></pre>	<p>請求成功。參數的值是：</p> <p>enable：啟用或禁用音訊</p> <p>encode_type：編碼類型</p> <p>samplerate：取樣速率</p> <p>bitrate：位元速率</p> <p>input_volume：輸入音量</p> <p>output_volume：輸出音量</p> <p>amplify：啟用或禁用音訊功放</p> <p>The request was successful. The value of the parameter is:</p> <p>enable: Enable or disable audio</p> <p>encode_type: Encode type</p> <p>samplerate: Samplerate</p> <p>bitrate: Bitrate</p> <p>input_volume: Input volume</p> <p>output_volume: Output volume</p> <p>amplify: Enable or disable audio amplifier</p>
400	<pre data-bbox="351 1280 759 1482"><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/audioencoder</value> <reason>enable: 0 or 1</reason> </fault></pre>	<p>參數 enable 錯誤 (其他參數的錯誤提示類似，不重複解釋)</p> <p>Parameter enable error (Other parameters similar to the wrong tips do not repeat the explanation)</p>

3.13 OSD**3.13 OSD**

/cgi-bin/osd?uid=XXXXXXXX
 /cgi-bin/osd?enable=0&uid=XXXXXXXX
 /cgi-bin/osd?enable=1&uid=XXXXXXXX
 /cgi-bin/osd?title_utf8=XXXXXXXXXX&uid=XXXXXXXX
 /cgi-bin/osd?enable=1&color=1&fontsize=1&title_pos_type=1&title_pos_x=1&title_pos_y=0&sh

ow_res_bit=0&time_pos_type=1&time_pos_x=1&time_pos_y=0&show_week=1&time_format=y
 yyyy-mm-dd hh:mm:ss&title_utf8=XXXXXXXXX&uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
enable	選項(Option): 0 1	1 啟用 OSD，0 禁用 OSD 1 Enable OSD, 0 Disable OSD
color	選項(Option): 0 1 2 3	OSD 顏色，0 黑色字白色背景，1 白色字黑色背景，2 黑字白框透明背景，3 白字黑框透明背景 OSD color. 0 Black text on white background, 1 White text on black background, 2 Black text white border on transparent background, 3 White text black border on transparent background
fontsize	選項(Option): 0 1 2	字體尺寸，0 小，1 中，2 大 Font size. 0 Small, 1 Medium, 2 Large
title_pos_type	選項(Option): 0 1	標題位置類型，0 方向，1 座標 Title position type. 0 Direction, 1 Coordinate
title_pos_x	數字 Numbers	標題 x 軸位置， title_pos_type=0 時取值 0 至 2， title_pos_type=1 時取值 0 至 100 Title x-axis position. Values 0 to 2 for title_pos_type = 0 and 0 to 100 for title_pos_type = 1
title_pos_y	數字 Numbers	標題 y 軸位置， title_pos_type=0 時取值 0 至 2， title_pos_type=1 時取值 0 至 100 Title y-axis position. Values 0 to 2 for title_pos_type = 0 and 0 to 100 for title_pos_type = 1
show_res_bit	選項(Option): 0 1 2 3	0 不顯示解析度和碼率，1 顯示解析度不顯示碼率，2 顯示碼率不顯示解析度，3 顯示解析度和碼率 0 does not display resolution and code rate, 1 display resolution does not display code rate, 2 display code rate does not display resolution, 3 display resolution and code rate.
time_pos_type	選項(Option): 0 1	時間位置類型，0 方向，1 座標 Time position type. 0 Direction, 1 Coordinate
time_pos_x	數字 Numbers	時間 x 軸位置， time_pos_type=0 時取值 0 至 2， time_pos_type=1 時取值 0 至 100 Time x-axis position. Values 0 to 2 for time_pos_type = 0 and 0 to 100 for time_pos_type = 1

		to 100 for time_pos_type = 1
time_pos_y	數字 Numbers	時間 y 軸位置 , time_pos_type=0 時取值 0 至 2 , time_pos_type=1 時取值 0 至 100 Time y-axis position. Values 0 to 2 for time_pos_type = 0 and 0 to 100 for time_pos_type = 1
show_week	選項(Option): 0 1	1 顯示星期 , 0 不顯示星期 1 shows the week, 0 does not show the week
time_format	選項(Option): yyyy-mm-dd_hh:mm:ss yyyy/mm/dd_hh:mm:ss yy-mm-dd_hh:mm:ss yy/mm/dd_hh:mm:ss hh:mm:ss_dd/mm/yyyy hh:mm:ss_dd-mm-yyyy hh:mm:ss_mm/dd/yyyy hh:mm:ss_mm-dd-yyyy mm/dd/yyyy_hh:mm:ss mm-dd-yyyy_hh:mm:ss	時間格式 由於 CGI URL 不能包含空格字元' '，所以在設置參數時把時間格式的空格換成了底線'_'，而回應訊息的報文中保留的時間格式的空格字元。 比如設置參數時 yyyy-mm-dd_hh:mm:ss 回應訊息報文中 yyyy-mm-dd hh:mm:ss Time format Because the CGI URL can not contain the space character ' ', the time format space is replaced by the underscore '_' when setting the parameters, and the space characters in the time format reserved in the response message's message. For example, when setting parameters: yyyy-mm-dd hh: mm: ss Response message parameters: yyyy-mm-dd hh: mm: ss
title_utf8		標題內容 按照 HTTP URL 的規範，如果 title_utf8 的值都是字母和數位則不需要轉換，如果包含其他字元則需要轉換為 utf8 編碼的字串。 例如: ipcamera title_utf8=ipcamera 你好 title_utf8=%E4%BD%A0%E5%A5%BD 你好 ipcamera title_utf8=%E4%BD%A0%E5%A5%BDipcamera Title content The title_utf8 parameter specification: according to the HTTP URL specification, if the value of title_utf8 is both alphanumeric and the number does not need to be converted, if it contains other characters, it needs to be converted to a utf8 encoded string. For example: ipcamera title_utf8=ipcamera

		你好 title_utf8=%E4%BD%A0%E5%A5%BD 你好 ipcamera title_utf8=%E4%BD%A0%E5%A5%BDipcamera
--	--	---

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<pre><?xml version="1.0" encoding="UTF-8"?> <osd enable="1" color="1" fontsize="1" title_pos_type="1" title_pos_x="1" title_pos_y="0" show_res_bit="0" time_pos_type="1" time_pos_x="1" time_pos_y="0" show_week="1" time_format="yyyy-mm-dd hh:mm:ss" title_utf8="XXXXXXXX"/></pre>	<p>請求成功。參數的值是：</p> <p>enable : 啟用或禁用 OSD</p> <p>color : 顏色</p> <p>fontsize : 字體尺寸</p> <p>title_pos_type : 標題位置類型</p> <p>title_pos_x : 標題 x 軸位置</p> <p>title_pos_y : 標題 y 軸位置</p> <p>show_res_bit : 是否顯示解析度和碼率</p> <p>time_pos_type : 時間位置類型</p> <p>time_pos_x : 時間 x 軸位置</p> <p>time_pos_y : 時間 y 軸位置</p> <p>show_week : 是否顯示星期</p> <p>time_format : 時間格式</p> <p>title_utf8 : 標題內容</p> <p>The request was successful. The value of the parameter is:</p> <p>enable : Enable or disable OSD</p> <p>color : Color</p> <p>fontsize : Font size</p> <p>title_pos_type : Title position type</p> <p>title_pos_x : Title x-axis position</p> <p>title_pos_y : Title y-axis position</p> <p>show_res_bit : Whether to display the resolution and bit rate</p> <p>time_pos_type : Time position type</p> <p>time_pos_x : Time x-axis position</p> <p>time_pos_y : Time y-axis position</p> <p>show_week : Whether to show the week</p> <p>time_format : Time format</p> <p>title_utf8 : Title content</p>

400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/osd</value> <reason>enable: 0 or 1</reason> </fault></pre>	<p>參數 enable 錯誤 (其他參數的錯誤提示類似，不重複解釋)</p> <p>Parameter enable error (Other parameters similar to the wrong tips do not repeat the explanation)</p>

3.14 圖像

3.14 Image

/cgi-bin/image?uid=XXXXXXX
/cgi-bin/image?brightness=128&contrast=128&saturation=128&sharpness=128&uid=XXXXXXX
/cgi-bin/image?brightness=128&contrast=128&saturation=128&sharpness=128&hlc=128&blc=128&nr2d=128&nr3d=128&tvsystem=60&antificker=1&uid=XXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
brightness	數字 0 至 255 Numbers from 0 to 255	亮度 Brightness
contrast	數字 0 至 255 Numbers from 0 to 255	對比度 Contrast
saturation	數字 0 至 255 Numbers from 0 to 255	飽和度 Saturation
sharpness	數字 0 至 255 Numbers from 0 to 255	銳度 Sharpness
hlc	數字 0 至 255 Numbers from 0 to 255	強光抑制 Highlight Compensation
blc	數字 0 至 255 Numbers from 0 to 255	背光控制 Back Light Control
nr2d	數字 0 至 255 Numbers from 0 to 255	2D 降噪 2D noise reduction

	255	
nr3d	數字 0 至 255 Numbers from 0 to 255	3D 降噪 3D noise reduction
tvsystem	數字 50 或 60 Numbers 50 or 60	系統制式 system mode
antificker	數字 0 或 1 Numbers 0 or 1	抗閃開關 forced antificker

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <image brightness="128" contrast="128" saturation="128" sharpness="128"/>	請求成功。參數的值是： brightness : 亮度 contrast : 對比度 saturation : 飽和度 sharpness : 銳度 The request was successful. The value of the parameter is: brightness : Brightness contrast : Contrast saturation : Saturation sharpness : Sharpness
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/image</value> <reason>brightness range: 0-255</reason> </fault>	參數 brightness 錯誤 (其他參數的錯誤提示類似，不重複解釋) Parameter brightness error (Other parameters similar to the wrong tips do not repeat the explanation)

3.15 PTZ 控制

3.15 PTZ

停止 (stop)

/cgi-bin/ptz_ctrl?stop=1&uid=XXXXXXXXXX

左 (left)

/cgi-bin/ptz_ctrl?move_x=-1&move_y=0&speed=5&uid=XXXXXXXXXX

右 (right)

`/cgi-bin/ptz_ctrl?move_x=1&move_y=0&speed=5&uid=XXXXXXX`

上 (up)

`/cgi-bin/ptz_ctrl?move_x=0&move_y=1&speed=5&uid=XXXXXXX`

下 (down)

`/cgi-bin/ptz_ctrl?move_x=0&move_y=-1&speed=5&uid=XXXXXXX`

左上 (upper left)

`/cgi-bin/ptz_ctrl?move_x=-1&move_y=1&speed=5&uid=XXXXXXX`

左下 (lower left)

`/cgi-bin/ptz_ctrl?move_x=-1&move_y=-1&speed=5&uid=XXXXXXX`

右上 (upper right)

`/cgi-bin/ptz_ctrl?move_x=1&move_y=1&speed=5&uid=XXXXXXX`

右下 (lower right)

`/cgi-bin/ptz_ctrl?move_x=1&move_y=-1&speed=5&uid=XXXXXXX`

放大 (zoom narrow)

`/cgi-bin/ptz_ctrl?zoom=1&uid=XXXXXXX`

縮小 (zoom wide)

`/cgi-bin/ptz_ctrl?zoom=-1&uid=XXXXXXX`

近焦 (focus near)

`/cgi-bin/ptz_ctrl?focus=1&uid=XXXXXXX`

遠焦 (focus far)

`/cgi-bin/ptz_ctrl?focus=-1&uid=XXXXXXX`

光圈變大 (iris open)

`/cgi-bin/ptz_ctrl?iris=1&uid=XXXXXXX`

光圈變小 (iris close)

`/cgi-bin/ptz_ctrl?iris=-1&uid=XXXXXXX`

調用預置點 (call preset)

`/cgi-bin/ptz_ctrl?call_preset=1&uid=XXXXXXX`

添加預置點 (add preset)

`/cgi-bin/ptz_ctrl?add_preset=1&uid=XXXXXXX`

刪除預置點 (delete preset)

`/cgi-bin/ptz_ctrl?delete_preset=1&uid=XXXXXXX`

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
speed	數字 1 至 10 Numbers from 1 to 10	速度 Speed
		其他參數不列舉，按照上文列舉的 URL 使用 Other parameters are not listed, according to the URL listed above

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <ptz_ctrl>true</ptz_ctrl>	請求成功。 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/ptz_ctrl</value> <reason>move_x range: -1,0,1</reason> </fault>	參數 move_x 錯誤 (其他參數的錯誤提示類似，不重複解釋) Parameter move_x error (Other parameters similar to the wrong tips do not repeat the explanation)

3.16 移動偵測配置**3.16 Motion Detect configuration**

/cgi-bin/motion?uid=XXXXXXX
 /cgi-bin/ motion?enable=0&uid=XXXXXXX
 /cgi-bin/ motion?enable=1&uid=XXXXXXX
 /cgi-bin/ motion?enable=1& blockcount=22x18&areavalue=XXXXXXXX &uid=XXXXXXXX
 /cgi-bin/motion?enable=1&sensitivity=80&alarmthreshold=20&enable_nighttime=1&nightsensitivity=80&night_alarmthreshold=20&blockcount=22x18&areavalue=XXXXXXXX&uid=XXXXXXXX

参数名称 Parameter name	参数值 Parameter value	描述 Description
uid		会话的用户 id, 通过/cgi-bin/getuid 接口得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
enable	选项(Option) 1 0	移动侦测使能 Motion detection enable 1 Start motion detection 0 Turn off motion detection.
sensitivity	数字 1 至 100	灵敏度 sensitivity
alarmthreshold	数字 1 至 100	报警门限值 alarm threshold.

enable_nighttime	選項(Option) 1 0	夜間參數使能 1 啟用夜間參數 0 停用夜間參數 夜間參數包括: night_sensitivity, night_alarmthreshold. Night parameter enable 1 Enable nighttime parameters 0 Disable nighttime parameters. Night parameters include: night_sensitivity, night_alarmthreshold.
night_sensitivity	數字 1 至 100	夜間靈敏度 Night sensitivity
night_alarmthreshold	數字 1 至 100	夜間報警門限值 Night alarm threshold
blockcount	字串 行塊數 x 列塊數	移動偵測的區域塊數 Number of area blocks for motion detection
areavalue		移動偵測區域值 說明: 區域塊數從左往右每8塊按位元填充到一個位元組裡面，多餘位元填充 0(1 代表被選中塊，0 代表沒有被選中塊)，並對這些位元組進行 16 進制字串的編碼，就是最終的移動偵測區域值。 例如: 4x4 的區域全部選中，移動偵測區域值為:ffff，全部不選中，則為 0000。 Motion detection area value Description: Each 8 blocks from left to right are filled in a byte bit by bit, and the extra bit is filled in 0 (1 represents the selected block, 0 represents the unselected block), and these bytes are encoded in a hexadecimal string, which is the final value of the mobile detection region. For example: All 4x4 areas are selected, the motion detection area value is: ffff, and all are unchecked, it is 0000.

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <motion enable="1" sensitivity="80" alarmthreshold="20" enable_nighttime="1" night_sensitivity="80" night_alarmthreshold="22" blockcount="22x18 " areavalue="xxxxxxxxxx"/>	請求成功。參數的值是： enable : 啟用或禁用移動偵測 sensitivity : 靈敏度 alarmthreshold : 報警門限值 enable_nighttime : 啟用或停用夜間參數 night_sensitivity : 夜間靈敏度 night_alarmthreshold : 夜間報警門限值 blockcount : 移動偵測的區域塊數 areavalue : 移動偵測區域值
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/motion</value> <reason>enable: 0 or 1</reason> </fault>	參數 enable 錯誤 (其他參數的錯誤提示類似，不重複解釋) Parameter enable error (Other parameters similar to the wrong tips do not repeat the explanation)

3.17 獲取設備型號 (OEM)**3.17 Obtain Equipment Model**

/cgi-bin/getmodel?uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
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200	<pre><?xml version="1.0" encoding="UTF-8"?> <model>MCL12</model></pre>	假設是 MCL12 型號進行操作並請求成功。 model:OEM 設備型號 MCL12
		Suppose the MCL12 model operates and requests success. model:OEM Equipment type:MCL12

3.18 用戶管理

3.18 User Management

```
/cgi-bin/user_management?action=add&name=XXXX&newpasswd=XXX&privilege=User&enable=Enable&uid=XXXXXX
/cgi-bin/user_management?action=delete&name=XXXX&uid=XXXXXX
/cgi-bin/user_management?action=edit&name=XXXX&newpasswd=XXX&privilege=User&enable=Disable&uid=XXXXXX
/cgi-bin/user_management?action=edit&name=XXXX&newpasswd=XXX&uid=XXXXXX
/cgi-bin/user_management?action=get_user&uid=XXXXXX
```

1. 使用 `get_user` 指令可以獲取當前設備中的所有的使用者的 XML 資訊。

用戶管理即是許可權管理。

2. 普通用戶 User:只能查看 IPC 的配置，不能修改配置的使用者。

3. 操作用戶 Operator：擁有除了用戶管理外的所有權限

4. 管理員用戶 Administrator:擁有 IPC 的所有的許可權

除了相關操作的用户名和密碼之外的參數

-add 方法要求 : name、newpasswd、privilege、enable

-delete 方法要求 : name

-edit 方法要求 : name

-edit 方法可選 : newpasswd、privilege、enable

1. The `get_user` instruction can be used to obtain the XML information of all users in the current device.

User management is authority management.

2. Ordinary User: User who can only view the configuration of IPC, can not modify the configuration.

3. Operator for Operator: All rights except user management

4. Administrator: Has all the permissions of IPC

Parameters in addition to username and password for the associated action

- Add Requires: name, password, privilege, enable

- Delete Requires: name

- Edit Requires: name

- Edit Optional: password, privilege, enable

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
action (must)	1: add 2: delete 3: edit 4: get_user	add 是添加用戶操作 delete 是刪除用戶操作 edit 是編輯用戶操作 get_user 是獲取用戶所有的 XML 1. Add is to add user actions 2. delete is a delete user operation 3. Edit is an edit user operation 4. get_user is to get all the user's XML
name (must)	字串 Char *	用戶名 PS : 最大允許 40 個位元組的長度。 User name PS: Maximum allowable length of 40 bytes.
newpasswd	字串 Char*	Password: To edit the user's password
privilege	字串 Char* 1、User 2、Administrator 3、Operator	許可權問題： User 只能查看配置，不能修改配置 Administrator 擁有所有權限 Operator 擁有除了用戶管理外的所有權限 User Configuration can only be viewed, but configuration cannot be modified. Administrator Ownership Operator Have all rights except user management
enable	字串 Char* 1、Enable 2、Disable	Enable : 使能用戶 Disable : 失能用戶 Enable: enabling users Disable: Disabled Users

回應的報文

Response message

狀態碼 Status	內容 Content	描述 Description
---------------	---------------	-------------------

code		
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/user_management</value> <reason>action: add or edit or delete</reason> </fault>	action 參數不是 add or edit or delete 報錯 The parameter is not add or edit or delete an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/user_management</value> <reason>error username</reason> </fault>	delete 參數輸入的用戶名不存在的時候上報此錯誤。 (不能夠刪除不存在的用戶) Report this error when the user name entered by the parameter does not exist. (Can't delete non-existent users)
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/user_management</value> <reason>error username duplicated</reason> </fault>	add 參數輸入相同的用戶名的時候上報此錯誤。(不能夠創建已經存在的用戶) Report this error when the user name entered by the parameter is exist.(unable to create existing users)
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/user_management</value> <reason>username none exist to edit</reason> </fault>	edit 參數輸入不同的用戶名的時候上報錯誤。(不能夠編輯不存在的用戶) Report this error when the user name entered by the parameter does not exist. (unable to edit non-existent users)
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/user_management</value> <reason>privilege: User or Administrator or Operator</reason> </fault>	Privilege 參數輸入錯誤，需要輸入 User or Administrator or Operator Privilege parameter input error, need to enter User or Administrator or Operator
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/user_management</value> <reason>enable: Enable or Disable</reason> </fault>	enable 參數輸入錯誤，需要輸入 Enable or Disable enable parameter input error, need to enter Enable or Disable
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/user_management</value> <reason>The parameters must Correct include name,newpasswd,privilege,enable</reason> </fault>	Add 方法參數缺少錯誤，需要輸入全部 4 個的所有參數才能創建新用戶。 The Add parameter is missing errors, and all four parameters need to be entered to create a new user.
400	<?xml version="1.0" encoding="UTF-8"?> <fault>	使用者許可權不是管理員，無法進行使用者管理配置項。

	<value>/cgi-bin/user_management</value> <reason>Non-administrators cannot edit users</reason> </fault>	User privileges are not administrators. User management configuration items cannot be modified.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/user_management</value> <reason>username not exist to edit</reason> </fault>	登錄用戶不存在 Login user does not exist

3.19 抓圖上傳

3.19 snapshot upload

```
/cgi-bin/snapshot.cgi&username=XXXXXX&password=XXXXXX
/cgi-bin/snapshot.cgi?stream=0&username=XXXXXX&password=XXXXXX
/cgi-bin/snapshot.cgi?stream=0&upload=0&username=XXXXXX&password=XXXXXX
/cgi-bin/snapshot.cgi?stream=1&upload=1&username=XXXXXX&password=XXXXXX
```

- 1、開啟 onvif 認證之後，就需要輸入 username 參數和 password 參數。
- 2、缺省 stream 參數後，跟著 username 的一定要使用&，否則上報錯誤。
- 3、缺省 stream 參數後，默認為 stream0。
- 4、缺省 upload 參數後，不上報錯誤。

1. After the onvif authentication is enabled, you need to enter the username parameter and password parameter.
2. After the default stream parameter, follow the username's to use &, otherwise, report the error.
3. After the default stream parameter, the default value is stream0.
4. After the default upload parameter, no error is reported.

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
stream(must)	數字 0-1 Number 0-1	參數值為 0 代表：子碼流抓圖 參數值為 1 代表：主碼流抓圖 Parameter value of 0 represents: sub code stream snapshot The parameter value of 1 represents: Master

		bitstream snapshot
upload(optional)	數字 0-3 Number 0-3	參數值為 0 代表：抓圖後上傳到 SD 卡 參數值為 1 代表：抓圖後上傳到 FTP 參數值為 2 代表：抓圖後上傳到 Email 參數值為 3 代表：抓圖後上傳到遠端的 NFS 啟服器 Parameter value is 0: upload to SD card after capturing parameter value is 1, which means: upload to FTP after capturing Parameter value is 2: upload to email after capturing Parameter value is 3: upload to remote NFS server after snapshot

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <upload>OK</upload>	請求成功。參數的值是： 提示抓圖完全並上傳成功 The request succeeded. The value of the parameter is: Successful upload
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/snapshot</value> <reason>sd not mount</reason> </fault>	SD 卡沒有插入或者 SD 卡沒有部署成功。 The SD card was not inserted or deployed successfully.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/snapshot</value> <reason>upload 0 or 1 or 2 or 3</reason> </fault>	Upload 的參數不是 0-3 的數值就會上報此錯誤。 This error will be reported if the parameter of Upload is not 0-3.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/snapshot</value> <reason>Ftp not deploy</reason> </fault>	FTP 的伺服器沒有部署 FTP servers are not deployed.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/snapshot</value>	SD 卡沒有插入，或者 SD 卡損壞，或者沒有部署。

	<reason>sd card not mounted</reason> </fault>	The SD card is not inserted, damaged or deployed.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/snapshot</value> <reason>NFS Server not mounted</reason> </fault>	NFS 沒有掛載 NFS Server not mounted

3.20 獲取錄影檔路徑

3.20 Get the video file path

```
/cgi-bin/get_record_query?year=XXXX&month=XX&day=XX&uid=XXXXXX
/cgi-bin/get_record_query?year=XXXX&month=XX&day=XX&username=XXXXXXX&password=XXX
XXX
/cgi-bin/get_record_query?year=XXXX&month=XX&day=XX&stream=XXXX&record_mode=XX&m
edia_type=XX&uid=XXXXXX
/cgi-bin/get_record_query?year=XXXX&month=XX&day=XX&stream=XXXX&record_mode=XX&m
edia_type=XX&start_hour=XXXX&start_min=XX&start_sec=XX&uid=XXXXXX
/cgi-bin/get_record_query?year=XXXX&month=XX&day=XX&stream=XXXX&record_mode=XX&m
edia_type=XX&start_hour=XXXX&start_min=XX&start_sec=XX&end_hour=XXXX&end_min=XX&e
nd_sec=XX&uid=XXXXXX
```

1：必要的參數為：

year,month,day 2：

可選參數為

stream , record_mode , media_type ,
 start_hour , start_min , start_sec ,
 end_hour , end_min , end_sec 。

以上的參數在缺省的時候，初始化的值為：

```
stream = -1;
record_mode = -1;
media_type = 3;
start_hour = 0;
start_min = 0;
start_sec = 0;
end_hour = 23;
end_min = 59;
end_sec = 59;
```

1: The necessary parameters are:

Year,month,day

2: The optional parameter is

Stream, record_mode, media_type,
 Start_hour, start_min, start_sec,
 End_hour, end_min, end_sec.

The above parameters are initialized by default:

```
Stream = -1;
Record_mode = -1;
Media_type = 3;
Start_hour = 0;
Start_min = 0;
Start_sec = 0;
End_hour = 23;
End_min = 59;
End_sec = 59;
```

含義為：預設顯示使用者想要得到時間是從 XX 年 XX 月 XX 日的 0 時 0 分 0 秒到 23 時 59 分 59 秒的全部錄影資料，其中碼流類型為所有碼流，媒體類型為視頻和音訊的格式。

The meaning is: the default display user wants to get all the recording data from 0:0:0 to 23:59:59 of XX, XX, XX, where the code stream type is all streams, and the media type is video. And audio format.

如何獲得錄影檔的下載URL？ URL

= IP 地址 + /playback/ + filepath 格式

例如：

<http://192.168.2.34/playback/mnt/mmc0/schedule/20191025/135144-av-1.mp4>

How do I get the download URL of the video file?

URL = IP address + /playback/ + filepath

The format is for example:

<http://192.168.2.34/playback/mnt/mmc0/schedule/20191025/135144-av-1.mp4>

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
year	數字大於 1900 Number > 1900	必要的參數：查找 IPC 的錄影的資訊 哪一年 Required parameters: Find information about IPC recordings which year

month	數字 1-12 Number 1-12	必要的參數：查找 IPC 的錄影的資訊 哪一月 Required parameters: Find information about IPC recordings Which month
day	數字 1-31 Number 1-31	必要的參數：查找 IPC 的錄影的資訊 哪一天 Required parameters: Find information about IPC recordings Which day
stream	數字-1, 1, 2 Number -1,1,2	可選的參數：碼流的類型 -1：所有類型的碼流 1: 主碼流 2: 子碼流 Optional parameters: type of stream -1: All types of streams 1: primary stream 2: substream
record_mode	數字-1, 2, 4, 8 Number -1, 2, 4, 8	可選的參數：錄影的類型 -1：全部錄影 2：定時錄影 4：移動偵測錄影 8：告警錄影 Optional parameters: type of recording -1: All videos 2: Timed recording 4: Motion detection video 8: Alarm recording
media_type	數字：2，3 Number: 2, 3	可選的參數：媒體的類型 2：視頻 3：視頻和音訊 Optional parameters: type of media 2: Video 3: Video and audio
start_hour	數字 0-23 Number 0-23	可選的參數：錄影的起始小時 Starting hour of the video
start_min	數字 0-59 Number 0-59	可選的參數：錄影的起始分鐘 The starting minute of the video
start_sec	數字 0-59 Number 0-59	可選的參數：錄影的起始秒 The starting second of the recording
end_hour	數字 0-23 Number 0-23	可選的參數：錄影的結束小時 Optional parameters: the end of the video

end_min	數字 0-59 Number 0-59	可選的參數：錄影的結束分鐘 Optional parameters: the end of the recording
end_sec	數字 0-59 Number 0-59	可選的參數：錄影的結束秒 Optional parameters: the end of the recording

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <RecordQueryInfo> <items filepath="/mnt/mmc0/schedule/20191025/151233-av-1.mp4" filesize="32276556" record_mode="2" media_type="3" stream_index="1" start_time="2019-10-25 15:12:33"/> </RecordQueryInfo>	請求成功。參數的值是： 錄影檔的所有的資料 The request succeeded. The value of the parameter is: All data of the video file
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/get_record_query</value> <reason>record_month must between 1-12</reason> </fault>	輸入月的值不在 1-12 月的範圍內 The value of the input month is not in the range of January to December.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/get_record_query</value> <reason>record_day must between 1-31</reason> </fault>	輸入日的值不在 1-31 日的範圍內 The value of the input date is not in the range of 1-31 days.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/get_record_query</value> <reason>start_hour must between 0-23</reason> </fault>	輸入錄影起始小時不是 0-23 的範圍內 Input recording start time is not in the range of 0-23
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/get_record_query</value> <reason>start_min must between 0-59</reason> </fault>	輸入錄影起始分鐘不是 0-59 的範圍內 Input recording start minute is not in the range of 0-59
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/get_record_query</value> <reason>start_sec must between 0-59</reason>	輸入錄影起始秒不是 0-59 的範圍內 Input recording start seconds are not in the range of 0-59

	</fault>	
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/get_record_query</value> <reason>end_hour must between 0-23</reason> </fault>	輸入錄影結束小時不是 0-23 的範圍內 Input recording end time is not in the range of 0-23
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/get_record_query</value> <reason>end_min must between 0-59</reason> </fault>	輸入錄影結束分鐘不是 0-59 的範圍內 Input recording end minutes are not in the range of 0-59
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/get_record_query</value> <reason>end_sec must between 0-59</reason> </fault>	輸入錄影結束秒不是 0-59 的範圍內 Input recording end seconds are not in the range of 0-59

3.21 固件升級

3.21 Upgrade Firmware

詳細的資訊請查看 [upload.html](#) 文檔。

JS 使用非同步的調用方式：

```

1.  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
2.  <html xmlns="http://www.w3.org/1999/xhtml">
3.  <head>
4.      <title>IP Camera</title>
5.  </head>
6.  <body>
7.  <div id="m_plugin"></div>
8.
9.  <input type="file" name="file1" id="filename"/>
10. <input type="submit" id="upgrade_submit" value="Submit" onclick="upload()"/>
11.
12. <script type="text/javascript">
13.     function upload(){
14.         var XMLHttpRequest = null;
15.         if (window.XMLHttpRequest) {
16.             XMLHttpRequest = new XMLHttpRequest();

```

```

17.         }
18.         else if (window.ActiveXObject){
19.             XMLHttpRequest = new ActiveXObject("Microsoft.XMLHTTP");
20.         }
21.         var file = document.getElementById("filename").files[0];

22.         XMLHttpRequest.open("POST", "http://192.168.2.67/OnvifFirmwareUp
grade", true);
23.         XMLHttpRequest.setRequestHeader("Content-Type", "application/oct
et-stream");
24.         XMLHttpRequest.setRequestHeader("Access-Control-Allow-Origin", "*");
25.         XMLHttpRequest.setRequestHeader("Cache-Control", "no-cache");
26.         XMLHttpRequest.setRequestHeader("Authorization", "Basic QWxpY2U6
MTIzNDU2");
27.         XMLHttpRequest.send(file);
28.     }
29. </script>
30. </body>
31. </html>

```

3.22 RTMP 配置

3.22 RTMP Configuration

/cgi-bin/rtmp?uid=XXXXXX
 /cgi-bin/rtmp?enable=0&uid=XXXXXXXX
 /cgi-bin/rtmp?enable=1&uid=XXXXXXXX
 /cgi-bin/rtmp?enable=1&server=XXXXXX&appname=XXXXXXXXXX&streamid=XXXXXX&streamno=XXX
 XX&type=XXXXX&port=XXXXX&uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
enable	0-1	0 : 關閉 RTMP 1 : 打開 RTMP 0: Disable RTMP 1: Open RTMP

server	字串 Char *	伺服器的地址，類似於： 192.168.2.125 The address of the server, similar to: 192.168.2.125
appname	字串 Char*	RTMP 的應用名稱 RTMP application name
streamid	字串 Char*	RTMP 的流 ID RTMP stream ID
port	整型 Int 0-65535	RTMP 的埠號 RTMP port number
streamno	0-1	碼流的類型 0：主碼流，1：子碼流 Stream type 0: main stream, 1: sub stream
type	0-1	協議的類型： 0：標準模式，1：相容模式 Type of agreement: 0: standard mode, 1: compatible mode

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <RtmpConfig Enable="1" Streamno="0" Server="192.168.2.12" Port="98" Appname="live5" Streamid="55" Type="1"/>	請求成功。參數 user_management 顯示為 OK
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/rtmp</value> <reason>enable: 0 or 1</reason> </fault>	enable 參數不是 0 或者 1 上報參數報錯。 If the enable parameter is not 0 or 1, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/rtmp</value> <reason>server is NULL</reason>	Server 的伺服器位址輸入字串為空上報錯誤。 The server's server address input string is empty

	</fault>	to report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/rtmp</value> <reason>port range: 0-65535</reason> </fault>	port 埠號參數的範圍不是 0-65535 port number parameter range is not 0-65535
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/rtmp</value> <reason>streamno range: 0-1</reason> </fault>	streamno 的輸入參數的範圍不是 0-1 上報錯誤。 The input parameter range of streamno is not 0-1 to report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/rtmp</value> <reason>appname is NULL</reason> </fault>	appname 的參數輸入空字串上報錯誤。 An error was reported in the input string of appname.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/rtmp</value> <reason>streamid is NULL</reason> </fault>	streamid 參數輸入空字串上報錯誤。 The streamid parameter reports an empty string input error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/rtmp</value> <reason>type range: 0-1</reason> </fault>	type 參數輸入的值範圍不為 0-1 上報錯誤。 The value entered for the type parameter is not 0-1 and reports an error.

3.23 本地錄影存儲配置

3.23 ScheduleStorage Configuration

/cgi-bin/setScheduleStorage?uid=XXXXXX
 /cgi-bin/setScheduleStorage?username=admin&password=123456
 /cgi-bin/setScheduleStorage?localEnable=0&remoteEnable=1&remote_nfs_server=XXXXXX&nfs_server_path=XXXXXX&recordFileSize=XXXXXX&stream=1&JpegInterval=1&enable=1&uid=XXXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.

localEnable	0-1	0 : 關閉本機存放區 1 : 打開本機存放區 0: Disable Local storage 1: Open Local storage
remoteEnable	0-1	0 : 關閉網路存儲 1 : 打開網路存儲 0: Disable Network Storage 1: Open Network Storage
recordFileSize	整型 Int 2 , 5 , 10 , 20 , 30	錄影檔的長度 Video file length
remote_nfs_server	字串 Char*	只有在 remoteEnable=1 的時候才生效 網路存儲的伺服器。 Only effective when remoteEnable = 1 Network storage server.
nfs_server_path	字串 Char*	只有在 remoteEnable=1 的時候才生效 網路存儲的伺服器路徑。 Only effective when remoteEnable = 1 The server path of the network storage.
stream	0 , 1 , 2	碼流的類型 0 : 主碼流 , 1 : 子碼流 , 2 : 主碼流和子碼流 Stream type 0: main stream, 1: sub stream, 2: main stream and sub stream
JpegInterval	0-1	0 : 關閉抓圖功能 1 : 打開抓圖功能 0: Disable screenshot function 1: enable the capture function
enable	0-1	如果該值為 0 的話，證明定時錄影不進行存儲。 如果該值為 1 的話，localEnable=1 的開關打開的話，存儲在本地錄影之中，否則不存儲在本機存放區之中。 remoteEnable=1 的開關打開的話，存儲在網路存儲之中，否則不存儲在網路存儲之中。 If the value is 0, it means that the timer recording is not stored. If the value is 1, the localEnable = 1 switch is stored in the local recording, otherwise it is not stored in the local storage.

		When the remoteEnable = 1 switch is turned on, it is stored in network storage, otherwise it is not stored in network storage.
--	--	--

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <RecordConfig> <Common LocalEnable="1" RemoteEnable="0" MountParam="" RecordFileSize="10"/> <ScheduleRecord Stream="1" LocalStore="1" RemoteStore="0" JpegInterval="1"/> </RecordConfig>	請求成功。 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setScheduleStorage</value> <reason>enable: 0,1 </reason> </fault>	enable 參數不是 0 或者 1 就上報參數報錯。 If the enable parameter is not 0 or 1, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setScheduleStorage</value> <reason>localEnable: 0 or 1</reason> </fault>	localEnable 參數不是0 或者1 就上報參數報錯。 If the localEnable parameter is not 0 or 1, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setScheduleStorage</value> <reason>remoteEnable: 0 or 1</reason> </fault>	remoteEnable 參數不是 0 或者 1 就上報參數報錯。 If the remoteEnable parameter is not 0 or 1, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setScheduleStorage</value> <reason>recordFileSize: 2,5,10,20,30</reason> </fault>	recordFileSize 參數不是 2,5,10,20,30 這些資料就上報錯誤。 ReportFileSize parameter is not 2, 5, 10, 20, 30 to report an error
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setScheduleStorage</value> <reason>stream: 0,1,2 </reason>	stream 參數不是 0 , 1 , 2 上報參數報錯。 If the stream parameter is not 0 or 1 , 2, an error is reported in the parameter.

	</fault>	
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setScheduleStorage</value> <reason>JpegInterval: 0,1 </reason> </fault>	JpegInterval 參數不是 0 或者 1 上報參數報錯。 If the JpegInterval parameter is not 0 or 1, an error is reported in the parameter.

3.24 移動偵測錄影配置

3.24 EventStorage Configuration

```
/cgi-bin/setEventStorage?uid=XXXXXX
/cgi-bin/setEventStorage?username=admin&password=123456
/cgi-bin/setEventStorage?trigger_recording=0&stream=1&record_ftp_upload=XXXXX&record_email_upload=XXXXXX&trigger_capture=XXXXX&capture_ftp_upload=1&capture_email_upload=1&capture_motionDetectAlarm=1&uid=XXXXXXXX
```

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
trigger_recording	0-1	0：關閉移動偵測存儲 1：打開移動偵測存儲 0: Disable motion detection storage 1: Turn on motion detection storage
stream	1-2	1：主碼流 2：子碼流 1: main stream 2: substream
record_ftp_upload	0-1	0：錄影不上傳到 FTP 啟服器上 1：錄影上傳到 FTP 啟服器上 0: The video is not uploaded to the FTP server 1: upload video to FTP server
record_email_upload	0-1	0：錄影不上傳到 Email 啟服器上 1：錄影上傳到 Email 啟服器上 0: The video is not uploaded to the Email server 1: upload video to Email server

trigger_capture	0-1	0 : 關閉移動偵測截圖上傳 1 : 打開移動偵測截圖上傳 0: Disable motion detection screenshot upload 1: Open motion detection screenshot upload
capture_ftp_upload	0-1	0 : 移動偵測截圖不上傳到 FTP 伺服器上 1 : 移動偵測截圖上傳到 FTP 伺服器上 0: Motion detection screenshots are not uploaded to the FTP server 1: upload motion detection screenshot to FTP server
capture_email_upload	0-1	0 : 移動偵測截圖不上傳到 Email 伺服器上 1 : 移動偵測截圖上傳到 Email 伺服器上 0: Motion detection screenshots are not uploaded to the Email server 1: upload motion detection screenshot to Email server
capture_motionDetectAlarm	0-1	0 : 關閉移動偵測報警輸出 1 : 打開移動偵測報警輸出 0: Disable motion detection alarm output 1: Turn on motion detection alarm output

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <RecordConfig> <MotionDetectRecord Stream="1" LocalStore="1" RemoteStore="1" FtpUpload="0" EmailUpload="0"/> <MotionDetectCapture LocalStore="1" RemoteStore="1" FtpUpload="1" EmailUpload="0" OutputChannelAction_enable="1"/> </RecordConfig>	請求成功。 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setEventStorage</value> <reason>trigger_recording: 0 or 1</reason> </fault>	trigger_recording 參數不是 0 或者 1 上報參數報錯。 If the trigger_recording parameter is not 0 or 1, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault>	stream 參數不是 1 或者 2 上報參數報錯。

	<value>/cgi-bin/setEventStorage</value> <reason>stream: 1 or 2</reason> </fault>	If the stream parameter is not 1 or 2, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setEventStorage</value> <reason>record_ftp_upload: 0 or 1 </reason> </fault>	record_ftp_upload 參數不是 0 或者 1 上報參數報錯。 If the record_ftp_upload parameter is not 0 or 1, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setEventStorage</value> <reason>record_email_upload: 0 or 1 </reason> </fault>	record_email_upload 參數不是 0 或者 1 上報參數報錯。 If the record_email_upload parameter is not 0 or 1, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setEventStorage</value> <reason>trigger_capture: 0 or 1 </reason> </fault>	trigger_capture 參數不是 0 或者 1 上報參數報錯。 If the trigger_capture parameter is not 0 or 1, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setEventStorage</value> <reason>capture_ftp_upload: 0 or 1 </reason> </fault>	capture_ftp_upload 參數不是 0 或者 1 上報參數報錯。 If the capture_ftp_upload parameter is not 0 or 1, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setEventStorage</value> <reason>capture_email_upload: 0 or 1 </reason> </fault>	capture_email_upload 參數不是 0 或者 1 上報參數報錯。 If the capture_email_upload parameter is not 0 or 1, an error is reported in the parameter.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setEventStorage</value> <reason>capture_motionDetectAlarm: 0 or 1 </reason> </fault>	capture_motionDetectAlarm 參數不是 0 或者 1 上報參數報錯。 If the capture_motionDetectAlarm parameter is not 0 or 1, an error is reported in the parameter.

3.25 獲取設備狀態 (OEM)

3.25 Get device status

/cgi-bin/getDevState?uid=XXXXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id

		User id for the session. The id passed through the
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		/cgi-bin/getuid interface.
--	--	----------------------------

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<pre><?xml version="1.0" encoding="UTF-8"?> <DevState sd1="0" sd2="0" system_time="2020-1-16-12-12-43" run_time="0-2-56-40" MemTotal="125620 kB " MemFree="24384 kB"/></pre>	請求成功 The request was successful.

3.26 觸發 IO 報警開關

3.26 Trigger IO alarm switch

/cgi-bin/setAlarmState?uid=XXXXXXXXXX

/cgi-bin/setAlarmState?position=1&logicalstate=1&uid=XXXXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
position	通道號 Channel number 0-3	設置通道的報警開關 Set channel alarm switch
logicalstate	常開還是常閉開關 Normally open or normally closed switch 0-1	0：常閉開關 1：常開開關 0: normally closed switch 1: normally open switch

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?>	請求成功

	<setAlarmState position="0" logicalstate="1"/>	The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setAlarmState</value> <reason>position: 0 ~ 3</reason> </fault>	獲取參數失敗 Position 的參數的範圍為 0-3，其餘的範圍就會報錯。 Failed to get parameters The range of the Position parameter is 0-3, and the rest of the range will report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setAlarmState</value> <reason>logicalstate: 0 ~ 1</reason> </fault>	獲取參數失敗 logicalstate 的參數的範圍為 0-1，其餘的範圍就會報錯。 Failed to get parameters The range of the logicalstate parameter is 0-1, and the rest of the range will report an error.

3.27 寬動態模式範圍開關設置

3.27 WDR Switch settings

/cgi-bin/set_wdr?uid=XXXXXXXX

/cgi-bin/set_wdr?enable=1&wdr_value=1&uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
enable	0-1	0：關閉 WDR 開關 1：打開 WDR 開關 0: Disable WDR switch 1: turn on the WDR switch
wdr_value	0-255	寬動態模式的調節範圍 Adjustment range of wide dynamic mode

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <Capture WDRMode="1" WDRValue="53"></Capture>	請求成功 The request was successful.

400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_wdr</value> <reason>enable: 0 or 1</reason> </fault>	獲取參數失敗 enable 的參數的範圍為 0-1，其餘的範圍就會報錯。 Failed to get parameters The range of the enableparameter is 0-1, and the rest of the range will report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_wdr</value> <reason>wdr_value: 0 ~ 255</reason> </fault>	獲取參數失敗 wdr_value 的參數的範圍為 0-255，其餘的範圍就會報錯。 Failed to get parameters The range of the wdr_value parameter is 0-255, and the rest of the range will report an error.

3.28 降噪開關設置

3.28 noise reduction Switch settings

/cgi-bin/set_noise_reduction?uid=XXXXXXXXX

/cgi-bin/set_noise_reduction?y_2D_value=128&y_3D_value=128&uid=XXXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
y_2D_value	0-255	2D 降噪的設置的範圍 2D noise reduction setting range
y_3D_value	0-255	3D 降噪的設置的範圍 3D noise reduction setting range

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <Capture TNF="128" SNF="128"></Capture>	請求成功 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_noise_reduction</value> >	獲取參數失敗 y_2D_value 的參數的範圍為 0-255，其餘的範圍就會報錯。

	<reason>2D_value: 0 ~ 255</reason> </fault>	Failed to get parameters The range of the y_2D_value is 0-255, and the rest of the range will report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_noise_reduction</value> > <reason>3D_value: 0 ~ 255</reason> </fault>	獲取參數失敗 y_3D_value 的參數的範圍為 0-255，其餘的範圍就會報錯。 Failed to get parameters The range of the y_3D_value parameter is 0-255, and the rest of the range will report an error.

3.29 編碼碼流開關設置

3.29 Encoding code stream switch setting

/cgi-bin/set_start_codec?uid=XXXXXXXXXX

/cgi-bin/set_start_codec?stream0_enable=1&stream1_enable=1&uid=XXXXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
stream0_enable	0-1	0：主碼流的編碼設置關閉 1：主碼流的編碼設置打開 0: The encoding setting of the main stream is off 1: the encoding setting of the main stream is on
stream1_enable	0-1	0：子碼流的編碼設置關閉 1：子碼流的編碼設置打開 0: The encoding setting of the substream is off 1: Encoding setting of substream is on

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <Encode><EncodeConfig Stream="1" Enable="1"/> <EncodeConfig Stream="2" Enable="1"/>	請求成功 The request was successful.

	Enable="1"/></Encode>	
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_start_codec</value> <reason>stream0_enable: 0 or 1</reason> </fault>	獲取參數失敗 stream0_enable 的參數的範圍為 0-1，其餘的範圍就會報錯。 Failed to get parameters The range of the stream0_enable is 0-1, and the rest of the range will report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_start_codec</value> <reason>stream1_enable: 0 or 1</reason> </fault>	獲取參數失敗 stream1_enable 的參數的範圍為 0-1，其餘的範圍就會報錯。 Failed to get parameters The range of the stream1_enable parameter is 0-1, and the rest of the range will report an error.

3.30 紅外燈以及亮度開關設置

3.30 Infrared light and brightness switch settings

/cgi-bin/setBrightness_InfraredLamp?uid=XXXXXXXX

/cgi-bin/setBrightness_InfraredLamp?setbrightness=1&infrared_lamp=1&uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
setbrightness	0-255	設置亮度的範圍 Set the range of brightness
infrared_lamp	0-3	0：純紅外燈 1：純白光燈 2：紅外觸發時候，開白光 3：白光觸發時候，開紅外 0: pure infrared light 1: pure white light 2: When infrared trigger, white light is on 3: When white light triggers, turn on infrared

回應的報文

Response message

狀態碼 Status	內容 Content	描述 Description
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code		
200	<?xml version="1.0" encoding="UTF-8"?> <Capture Brightness="191" led_mode="1"></Capture>	請求成功 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setBrightness_InfraredLamp p</value> <reason>brightness: 0 ~ 255</reason> </fault>	獲取參數失敗 setbrightness 的參數的範圍為 0-255，其餘的範圍就會報錯。 Failed to get parameters The range of the setbrightness is 0-255, and the rest of the range will report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setBrightness_InfraredLamp p</value> <reason>infrared_lamp: 0 ~ 3</reason> </fault>	獲取參數失敗 infrared_lamp 的參數的範圍為 0-3，其餘的範圍就會報錯。 Failed to get parameters The range of the infrared_lamp parameter is 0-3, and the rest of the range will report an error.

3.31 服務埠開關 API

3.31 Service port switch API

```
/cgi-bin/set_service_port?uid=XXXXXXX
/cgi-bin/set_service_port?enable_web=1&enable_control=1&enable_rtsp=1&enable_hik=1&uid
=XXXXXXX
/cgi-bin/set_service_port?enable_web=1&webport=80&enable_control=1&controlport=8091&
enable_rtsp=1&rtspport=554&enable_hik=1&hikport=8000&uid=XXXXXXX
```

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
enable_web	0-1	0：關閉 WEB 的埠 1：打開 WEB 的埠 0: Close WEB port 1: Open the web port
enable_control	0-1	0：關閉 PTZ 的控制埠 1：打開 PTZ 的控制埠 0: Close the control port of PTZ 1: Open the control port of PTZ
enable_rtsp	0-1	0：關閉 RTSP 的埠 1：打開 RTSP 的埠 0: Disable RTSP port

		1: Open RTSP port
enable_hik	0-1	0 : 關閉海康協定的埠 1 : 打開海康協議的埠 0: Close the port of Haikang protocol 1: open the port of Haikang protocol
webport	1~65535	WEB 埠 WEB Port
hikport	1~65535	HIK 埠 HIK Port
rtspport	1~65535	RTSP 埠 RTSPPort
controlport	1~65535	Control 埠 Control Port

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <MediaStreamConfig> <StreamAccess enable_web="1" enable_rtsp="1" enable_comm="1" enable_hik="1" /> </MediaStreamConfig>	請求成功 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_service_port</value> <reason>enable_web: 0 ~ 1</reason> </fault>	獲取參數失敗 enable_web 的參數的範圍為 0-1，其餘的範圍就會報錯。 Failed to get parameters The range of the enable_web is 0-1, and the rest of the range will report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_service_port</value> <reason>enable_control: 0 ~ 1</reason> </fault>	獲取參數失敗 enable_control 的參數的範圍為 0-1，其餘的範圍就會報錯。 Failed to get parameters The range of the enable_control parameter is 0-1, and the rest of the range will report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_service_port</value> <reason>enable_rtsp: 0 ~ 1</reason>	獲取參數失敗 enable_rtsp 的參數的範圍為 0-1，其餘的範圍就會報錯。

	</fault>	Failed to get parameters The range of the enable_rtsp parameter is 0-1, and the rest of the range will report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_service_port</value> <reason>enable_hik: 0 ~ 1</reason> </fault>	獲取參數失敗 enable_hik 的參數的範圍為 0-1，其餘的範圍就會報錯。 Failed to get parameters The range of the enable_hik parameter is 0-1, and the rest of the range will report an error.

3.32 設置隱私區域 API

3.32 Service Set privacy zone API

/cgi-bin/set_privacy_zone?uid=XXXXXXX

/cgi-bin/set_privacy_zone?Mask1Height=1&Mask1width=1&Mask1xPos=1&Mask1yPos=1&uid=X
XXXXXXX

隱私設置區域總共提供 4 個區域選擇。

分別為頂點的X座標，Y座標，隱私區域的寬，隱私區域的高。

參數分別為：

第一個隱私區域：

1、Mask1Height，2、Mask1width，3、Mask1xPos，4、Mask1yPos

第二個隱私區域：

1、Mask2Height，2、Mask2width，3、Mask2xPos，4、Mask2yPos

第三個隱私區域：

1、Mask3Height，2、Mask3width，3、Mask3xPos，4、Mask3yPos

第四個隱私區域：

1、Mask4Height，2、Mask4width，3、Mask4xPos，4、Mask4yPos

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
Mask1Height	int	第一個隱私區域的高度 Height of the first privacy zone
Mask1width	int	第一個隱私區域的寬度 The width of the first privacy zone
Mask1xPos	Int	第一個隱私區域的頂點 X 座標 Vertex X coordinate of the first privacy region
Mask1yPos	int	第一個隱私區域的頂點 Y 座標 Vertex Y coordinate of the first privacy region

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <Mask>OK</Mask>	請求成功 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_privacy_zone</value> <reason>mainStreamMask_Height is none</reason> </fault>	獲取參數失敗 隱私遮擋的區域的高度設置非法值，不是有效值。 Failed to get parameters The height of the privacy masked area is set to an illegal value, not a valid value.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_privacy_zone</value> <reason>mainStreamMask_Width is none</reason> </fault>	獲取參數失敗 隱私遮擋的區域的寬度設置非法值，不是有效值。 Failed to get parameters The width of the privacy masked area is set to an illegal value, not a valid value.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_privacy_zone</value> <reason>mainStreamMask_xPos is none</reason> </fault>	獲取參數失敗 隱私遮擋的區域頂點的 X 座標設置非法值，不是有效值。 Failed to get parameters The X coordinate of the vertex of the privacy occluded area is set to an illegal value, not a valid value.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_privacy_zone</value> <reason>mainStreamMask_yPos is none</reason> </fault>	獲取參數失敗 隱私遮擋的區域的頂點的 Y 座標設置非法值，不是有效值。 Failed to get parameters The Y coordinate of the vertex of the privacy-occluded area is set to an illegal value, and is not a valid value.

3.33 圖像翻轉設置**3.33 set flip settings**

/cgi-bin/set_flip?uid=XXXXXXXX

/cgi-bin/set_flip?vertical_flip=1&horizon_flip=1&uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
-------------------------------	-------------------------------	--------------------------

uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
vertical_flip	0-1	0：不使用垂直翻轉 1：使用垂直翻轉 0: Do not use vertical flip 1: use vertical flip
horizon_flip	0-1	0：不使用水準翻轉 1：使用水準翻轉 0: Do not use horizontal flip 1: use horizontal flip

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <Capture vertical_flip="1" horizon_flip="1"></Capture>	請求成功 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_flip</value> <reason>vertical_flip: 0 or 1</reason> </fault>	獲取參數失敗 vertical_flip 的參數的範圍為 0-1，其餘的範圍就會報錯。 Failed to get parameters The range of the vertical_flip parameter is 0-1, and the rest of the range will report an error.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_flip</value> <reason>horizon_flip: 0 or 1</reason> </fault>	獲取參數失敗 horizon_flip 的參數的範圍為 0-1，其餘的範圍就會報錯。 Failed to get parameters The range of horizon_flip parameter is 0-1, and the rest of the range will report an error.

3.34 https 證書和私密金鑰上傳

3.34 https Certificate and private key upload

詳細的資訊請查看Certificate.html 文檔。

使用 JS 原生表單上傳形式，使用如下的 demo，將可以把 HTTPS 所需要的證書，私密金鑰，私密金鑰密碼都上傳到IPC 的固定目錄/mnt/nand

For more information, see Certificate.html.

Using the JS native form upload form, using the following demo, you can upload the certificate, private key, and private key password required by HTTPS to the fixed directory / mnt / nand of

the IPC

1、Certificate.html

```

1.  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w
3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
2.  <html xmlns="http://www.w3.org/1999/xhtml">
3.  <head>
4.      <title>IP Camera</title>
5.  </head>
6.  <body>
7.  <div id="m_plugin"></div>
8.
9.  <form id="form_form_streamMediaCertificate" class="ui-form" name="f_form_st
reamMediaCertificate" action="http://192.168.2.115/WebCertificateUploadFile" m
ethod="post" target="post_frame_streamMediaCertificate" enctype="multipart/fo
rm-data">
10.     <div class="ui-form-item fn-relative">
11.         <div class="ui-form-item">
12.             <label class="ui-label fn-pad120 fn-width120" id="streamMediaCer
tificate_file_label">https 证书</label>
13.         </div>
14.         <div class="fn-left fn-relative">
15.             <div class="ui-file fn-opacity">
16.                 <input type="file" class="ui-file-box fn-opacity" name="oem_
mp3" id="streamMediaCertificate_file_audio" hidefocus="hidefocus"/>
17.             </div>
18.         </div>
19.         <input type="submit" id="streamMediaCertificate_submit" value="submi
t"/>
20.     </div>
21. </form>
22.
23. <script type="text/javascript">
24. </script>
25. </body>
26. </html>

```

3.35 自訂 OSD

3.35 UserOSD

cgi-bin/userosd?title_index=x&uid=XXXXXXX
 cgi-bin/userosd?title_index=x&enable=0&uid=XXXXXXX
 cgi-bin/userosd?title_index=x&enable=1&uid=XXXXXXX
 cgi-bin/userosd?title_index=x&title_utf8=XXXXXXX&uid=XXXXXXX

cgi-bin/userosd?title_index=x&enable=1&color=1&fontsize=1&title_pos_type=1&title_pos_x=1&title_pos_y=0&title_utf8=XXXXXXXXXX&uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid	ff2e45cd(Like this format)	會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
title_index	Option: 0 ~ 4	自訂 OSD 序號 UserOSD sequence number
enable	Option 0 1	1 代表開啟對應序號的 UserOSD, 0 代表關閉對應序號的 UserOSD 1 Enable UserOSD, 0 Disable UserOSD
color	Option: 0x00 ~ 0xffffffff	代表 UserOSD 的顏色值。 使用 16 位 RGB 顏色值表示 Represents the color value of UserOSD. Use 16-bit RGB color value for representation
fontsize	Option 0,1,2	字體尺寸，0 小，1 中， 2 大 Font size. 0 Small, 1 Medium, 2 Large
title_pos_type	Option 0,1	標題位置類型，0 方向，1 座標 Title position type. 0 Direction, 1 Coordinate
title_pos_x	Numbers	標題 x 軸位置， title_pos_type=0 時取值 0 至 2 ， title_pos_type=1 時取值 0 至 100 Title x-axis position. Values 0 to 2 for title_pos_type = 0 and 0 to 100 for title_pos_type = 1
title_pos_y	Numbers	標題 y 軸位置， title_pos_type=0 時取值 0 至 2 ， title_pos_type=1 時取值 0 至 100 Title x-axis position. Values 0 to 2 for title_pos_type = 0 and 0 to 100 for title_pos_type = 1
title_utf8		標題內容 按照 HTTP URL 的規範，如果 title_utf8 的值都是字母和數位則不需要轉換，如果包含其他字元則需要轉換為 utf8 編碼的字符串。 例如： ipcamera title_utf8=ipcamera 你好 title_utf8=%E4%BD%A0%E5%A5%BD 你好 ipcamera title_utf8=%E4%BD%A0%E5%A5%BDipcamera

		<p>Title content</p> <p>The title_utf8 parameter specification: according to the HTTP URL specification, if the value of title_utf8 is both alphanumeric and the number does not need to be converted, if it contains other characters, it needs to be converted to a utf8 encoded string.</p> <p>For example:</p> <p>ipcamera</p> <p>title_utf8=ipcamera</p> <p>你好</p> <p>title_utf8=%E4%BD%A0%E5%A5%BD</p> <p>你好 ipcamera</p> <p>title_utf8=%E4%BD%A0%E5%A5%BDipcamera</p>
--	--	--

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200		<p>The request was successful. The value of the parameter is:</p> <p>enable : Enable or disable OSD</p> <p>color : Color</p> <p>fontsize : Font size</p> <p>title_pos_type : Title position type</p> <p>title_pos_x : Title x-axis position</p> <p>title_pos_y : Title y-axis position</p> <p>title_utf8 : Title content</p>
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/userosd</value> <reason>enable: 0 or 1</reason> </fault>	<p>Parameter enable error</p> <p>(Other parameters similar to the wrong tips do not repeat the explanation)</p>

3.36 燈光控制

3.36 Led Control

cgi-bin/set_led?brightness=50&ledstatus=0&ledmode=1&uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid	ff2e45cd(會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id

	Like this format)	User id for the session. The id passed through the /cgi-bin/getuid interface.
brightness	Option: 0 ~ 100	燈光亮度 Light brightness
ledstatus	Option 0 1	1 代表開啟燈光, 0 代表關閉燈光 1: turn on the light, 0 : turn off the light
ledmode	Option: 1 or 2	表示燈光類型 1:表示紅外 2:表示白光 light type 1: Indicates infrared 2: Indicates white light

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200		The request was successful. The value of the parameter is: enable : Enable or disable OSD color : Color fontsize : Font size title_pos_type : Title position type title_pos_x : Title x-axis position title_pos_y : Title y-axis position title_utf8 : Title content
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_led</value> <reason>brightness: 0 ~ 100</reason> </fault>	Parameter brightness error (Other parameters similar to the wrong tips do not repeat the explanation)
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_led</value> <reason>not find param brightness </reason> </fault>	Parameter brightness not found (Other parameters similar to the wrong tips do not repeat the explanation)

3.37 IRCUT 控制

3.37 IRCUT Control

cgi-bin/set_ircut?ircutmode=1&uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
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uid	ff2e45cd(Like this format)	會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
ircutmode	Option: 0 ~ 5	Ircut 模式 UserOSD sequence number
time	Option: day or night	時間段, 取值為 day or night, 當 ircutmode 為 3 時, 也就是手動模式, 欄位 time 必須帶上 Time: the value is day or night, when ircutmode is 3, that is, manual mode, the field time must be brought.

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200		The request was successful. The value of the parameter is: enable : Enable or disable OSD color : Color fontsize : Font size title_pos_type : Title position type title_pos_x : Title x-axis position title_pos_y : Title y-axis position title_utf8 : Title content
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_led</value> <reason>ircutmode: 0 ~ 5</reason> </fault>	Parameter ircutmode error (Other parameters similar to the wrong tips do not repeat the explanation)
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_led</value> <reason>not find param time</reason> </fault>	Parameter time not found (Other parameters similar to the wrong tips do not repeat the explanation)
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/set_led</value> <reason>error param time</reason> </fault>	Parameter time error (Other parameters similar to the wrong tips do not repeat the explanation)

3.38 URL skip the login

3.38 URL 跳過登錄介面

/WEBlogin?username=xxxx&password=xxxxx

參數名稱 Parameter name	參數值 Parameter value	描述 Description
username	web 用戶名 web username	
password	web 密碼 web password	

3.39 Set UID valid time**3.39 設定 UID 有效時間**

/cgi-bin/setUidValidTime?validTime=80&uid=xxxxxx

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid	ff2e45cd(Like this format)	會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
validTime	Option: >0	表示設定當前 uid 的有效時間，單位：秒，當前 uid 默認有效時間是 60 秒 Indicates the effective time of setting the current uid, unit: second, the default effective time of the current uid is 60 seconds

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <SetUidValidTime>Uid valid time is 60 sec</SetUidValidTime>	請求成功 The request was successful.
400		Parameter time error (Other parameters similar to the wrong tips do not repeat the explanation)

3.40 Manually trigger io input alarm**3.40 手動觸發 io 輸入告警**

/cgi-bin/setManualInputAlarm?uid=xxxxxx

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid	ff2e45cd(Like this format)	會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <ManualInputAlarm>successful</ManualInputAlarm>	請求成功 The request was successful.
400		Parameter time error (Other parameters similar to the wrong tips do not repeat the explanation)

3.41 onvif authentication settings

3.41 onvif 認證設置

/cgi-bin/onvif?onvif_auth=1&uid=xxxxxx

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
enable	0-1	0 : 關閉 onvif 認證 1 : 打開 onvif 認證 0: Disable onvif auth 1: Open onvif auth

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description

200	<?xml version="1.0" encoding="UTF-8"?> <OnvifConfig onvif_auth="1"/>	請求成功 The request was successful.
-----	---	-------------------------------------

400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/onvif </value> <reason>onvif_auth: 0 or 1 </reason>	Parameter time error (Other parameters similar to the wrong tips do not repeat the explanation)
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3.42 rtsp authentication settings

3.42 rtsp 認證設置

/cgi-bin/rtsp?rtsp_auth=1&uid=xxxxxx

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid		會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
enable	0-1	0 : 關閉 rtsp 認證 1 : 打開 rtsp 認證 0: Disable rtsp auth 1: Open rtsp auth

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <RtspConfig rtsp_auth="1"/>	請求成功 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/rtsp </value> <reason> rtsp_auth: 0 or 1 </reason>	Parameter time error (Other parameters similar to the wrong tips do not repeat the explanation)

3.43 Get the position status of the relay

3.43 獲取繼電器的位置狀態

/cgi-bin/getRelayStatus? uid=xxxxxx

參數名稱 Parameter name	參數值 Parameter value	描述 Description
------------------------	------------------------	-------------------

uid	ff2e45cd(Like this format)	會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
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回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <RelayStatus>status=1</RelayStatus>	請求成功 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <RelayStatus>Get status(0) fail</RelayStatus>	Parameter time error (Other parameters similar to the wrong tips do not repeat the explanation)

3.44 Set the position state of the relay

3.44 設置繼電器的位置狀態

/cgi-bin/setRelayStatus? status=0& uid=xxxxxx

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid	ff2e45cd(Like this format)	會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
status	0-1	0: 斷開 1 : 閉合 0: open 1: close

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <RelayStatus> set status=1</RelayStatus>	請求成功 The request was successful.

400		Parameter time error (Other parameters similar to the wrong tips do not repeat the explanation)
-----	--	--

3.44 Set manual shutter speed

3.44 設置手動快門速度

/cgi-bin/setShutterSpeed?

dayShutterMode=x&dayShutterSpeed=xxx&nightShutterMode=x&nightShutterSpeed=xxx&uid=x
xxxxxx

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid	ff2e45cd(Like this format)	會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
dayShutterMode	白天快門模式：0-1 Day Shutter Mode: 0-1	0: 自動 1 : 手動 0: auto 1: manual
dayShutterSpeed	10 - 10000	Day Shutter Mode
nightShutterMode	夜晚快門模式：0-1 Night Shutter Mode: 0-1	0: 自動 1 : 手動 0: auto 1: manual
nightShutterSpeed	10 - 10000	夜晚快門速度 Night Shutter Mode

回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200	<?xml version="1.0" encoding="UTF-8"?> <setShutterSpeed>Set dayShutterMode=1, dayShutterSpeed=100, nightShutterMode=1, nightShutterSpeed=100</setShutterSpeed>	請求成功 The request was successful.
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setShutterSpeed </value> <reason> dayShutterMode: 0 or 1 </reason>	Parameter time error (Other parameters similar to the wrong tips do not repeat the explanation)
400	<?xml version="1.0" encoding="UTF-8"?>	Parameter time error

	<pre><fault> <value>/cgi-bin/setShutterSpeed </value> <reason>dayShutterSpeed: 10 or 10000</reason></pre>	(Other parameters similar to the wrong tips do not repeat the explanation)
400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setShutterSpeed </value> <reason>nightShutterMode: 0 or 1 </reason></pre>	Parameter time error (Other parameters similar to the wrong tips do not repeat the explanation)
400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/setShutterSpeed </value> <reason> nightShutterSpeed: : 10 or 10000 </reason></pre>	Parameter time error (Other parameters similar to the wrong tips do not repeat the explanation)

3.35 設置自訂 OSD (只設置不保存)

3.35 UserOSD(Only set without saving)

/cgi-bin setUserOsdOnly?enable=1&fontsize=1&title_pos_type=0&title_pos_x=1&title_pos_y=0&title_utf8=1236
66&uid=XXXXXXXX

參數名稱 Parameter name	參數值 Parameter value	描述 Description
uid	ff2e45cd(Like this format)	會話的使用者 id，通過/cgi-bin/getuid 介面得到的 id User id for the session. The id passed through the /cgi-bin/getuid interface.
enable	Option 0 1	1 代表開啟對應序號的 UserOSD, 0 代表關閉對應序號的 UserOSD 1 Enable UserOSD, 0 Disable UserOSD
fontsize	Option 0,1,2	字體尺寸，0 小，1 中， 2 大 Font size. 0 Small, 1 Medium, 2 Large
title_pos_type	Option 0,1	標題位置類型，0 方向，1 座標 Title position type. 0 Direction, 1 Coordinate
title_pos_x	Numbers	標題 x 軸位置， title_pos_type=0 時取值 0 至 2 ， title_pos_type=1 時取值 0 至 100 Title x-axis position. Values 0 to 2 for title_pos_type = 0 and 0 to 100 for title_pos_type = 1
title_pos_y	Numbers	標題 y 軸位置， title_pos_type=0 時取值 0 至 2 ， title_pos_type=1 時取值 0 至 100 Title y-axis position. Values 0 to 2 for title_pos_type = 0 and 0 to 100 for title_pos_type = 1
title_utf8		標題內容 按照 HTTP URL 的規範，如果 title_utf8 的值都是字母和數位則不需要轉換，如果包含其他字元則需要轉換為 utf8 編碼的字串。 例如： ipcamera title_utf8=ipcamera 你好

		<p>title_utf8=%E4%BD%A0%E5%A5%BD 你好 ipcamera title_utf8=%E4%BD%A0%E5%A5%BDipcamera</p> <p>Title content The title_utf8 parameter specification: according to the HTTP URL specification, if the value of title_utf8 is both alphanumeric and the number does not need to be converted, if it contains other characters, it needs to be converted to a utf8 encoded string. For example: ipcamera title_utf8=ipcamera 你好 title_utf8=%E4%BD%A0%E5%A5%BD 你好 ipcamera title_utf8=%E4%BD%A0%E5%A5%BDipcamera</p>
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回應的報文

Response message

狀態碼 Status code	內容 Content	描述 Description
200		<p>The request was successful. The value of the parameter is:</p> <p>enable : Enable or disable OSD color : Color fontsize : Font size title_pos_type : Title position type title_pos_x : Title x-axis position title_pos_y : Title y-axis position title_utf8 : Title content</p>
400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/userosd</value> <reason>enable: 0 or 1</reason> </fault></pre>	<p>Parameter enable error (Other parameters similar to the wrong tips do not repeat the explanation)</p>

4. 使用 XMLHttpRequest 調用 WEB 伺服器的 CGI 程式

4. Using XMLHttpRequest to call CGI program of web server

以獲得 IPC 設備的 uid 程式為例子寫的一個調用程式。

JS 調用的程式實例代碼：

```

1. function timestamp(url){
2.     // var getTimestamp=Math.random();
3.     var getTimestamp=new Date().getTime();
4.     if(url.indexOf("?")>-1){
5.         url=url+"&xtamp="+getTimestamp
6.     }else{
7.         url=url+"?timestamp="+getTimestamp
8.     }
9.     return url;
10. }
11.
12. function inner__getuid()
13. {
14.     var XMLHttpRequest = null;
15.     try{
16.
17.         if (window.XMLHttpRequest) {
18.             XMLHttpRequest = new XMLHttpRequest();
19.         }
20.         else if (window.ActiveXObject) {
21.             XMLHttpRequest = new ActiveXObject("Microsoft.XMLHTTP");
22.         }
23.         var szPort = window.location.port;
24.         var szProtocol = window.location.protocol;
25.         var szHostname = window.location.hostname;
26.
27.         //先得出 UID 的值
28.         var g_des_userid_test = des("WebLogin", hexToString(g_des_userid), 0
29.             , 0);
30.         var g_des_passwd_test = des("WebLogin", hexToString(g_des_passwd), 0
31.             , 0);
32.         //去掉字串中：中文，英文和數位以外的字元。
33.         var re=/[^u4e00-\u9fa5a-zA-Z0-9]/g;
34.         g_des_userid_test = g_des_userid_test.replace(re,"");
35.         g_des_passwd_test = g_des_passwd_test.replace(re,"");

```

```
36.         var szUrl = szProtocol+ "//" + szHostname + ":" + szPort + "/cgi-bin  
37.         /getuid?username="+g_des_userid_test+"&password="+g_des_passwd_test;  
38.         //增加時間戳，兼容 IE 瀏覽器  
39.         XMLHttpRequest.open("GET", timestamp(szUrl), false);  
40.         XMLHttpRequest.send(null);  
41.         if(XMLHttpRequest.readyState==4)  
42.         {  
43.             if(XMLHttpRequest.status==200) {  
44.                 var xml = XMLLoadText(XMLHttpRequest.responseText);  
45.                 //這個就是提取 xml 裡面的資料的函數  
46.                 var uid = xml.getElementsByTagName("uid")[0].childNodes[0].n  
odeValue;  
47.             }  
48.         else  
49.         {  
50.             uid = 0;  
51.         }  
52.     }  
53. }  
54. catch(e)  
55. {  
56.     uid = 0;  
57. }  
58. return uid;  
59. }
```