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1. The format of the HTTP request and response

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

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=XXXXXXXX

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

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. The interface list

No.	The requested URL	Description
1	/cgi-bin/getuid?username=xxxx&password=xxxx	Request user id
2	/cgi-bin/keep_alive?uid=XXXXXXXX	Keep alive
3	/cgi-bin/getinfo?uid=XXXXXXXX	Version information
4	/cgi-bin/getcapabilities?uid=XXXXXXXX	capabilities
5	/cgi-bin/reboot?uid=XXXXXXXX	reboot
6	/cgi-bin/factory_reset?uid=XXXXXXXX	Restore default Settings
7	/cgi-bin/network?uid=XXXXXXXX	network
8	/cgi-bin/time?uid=XXXXXXXX	time
9	/cgi-bin/videoencoder/getcapabilities?uid=XXXXXXXX	Video encoding capabilities
10	/cgi-bin/videoencoder?uid=XXXXXXXX	Video encoding configuration
11	/cgi-bin/audioencoder/getcapabilities?uid=XXXXXXXX	Audio encoding capabilities
12	/cgi-bin/audioencoder?uid=XXXXXXXX	Audio encoding configuration
13	/cgi-bin/osd?uid=XXXXXXXX	OSD
14	/cgi-bin/image?uid=XXXXXXXX	image
15	/cgi-bin/ptz_ctrl?stop=1&uid=XXXXXXXX	PTZ
16	/cgi-bin/motion?uid=XXXXXXXX	Motion

3. Interface specification

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 Get user id

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

Parameter name	Parameter value	Description
username	Letters and Numbers	IPC username
password	Letters and Numbers	IPC password

Response message

Status code	Content	Description
200	<?xml version="1.0" encoding="UTF-8"?> <uid>XXXXXXXX</uid>	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>	Failed to get parameters
400	<?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/getuid</value> <reason>error, parse username</reason>	Failed to get username

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

3.2 Keep alive

/cgi-bin/keep_alive?uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.

Response message

Status code	Content	Description
200	<?xml version="1.0" encoding="UTF-8"?> <keep_alive>true</keep_alive>	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>	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	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/keep_alive</value> <reason>error, parse uid</reason> </fault></pre>	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	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/keep_alive</value> <reason>uid error</reason> </fault></pre>	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 Version information

/cgi-bin/getinfo?uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.

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Response message

Status code	Content	Description
200	<pre><?xml version="1.0" encoding="UTF-8"?> <info kernel="XXXXXX" filesystem="XXXXXX" sn="XXXXXX"/></pre>	The request was successful. The value of the parameter is: kernel: Kernel version filesystem: File system version sn: Product serial number

3.4 Get capabilities

/cgi-bin/getcapabilities?uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.

Response message

Status code	Content	Description
200	<?xml version="1.0" encoding="UTF-8"?> <capabilities video="1" audio="1" ptz="0"/>	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 Reboot

/cgi-bin/reboot?uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.

Response message

Status code	Content	Description
200	<?xml version="1.0" encoding="UTF-8"?> <reboot>true</reboot>	The request was successful.

3.6 Restore default Settings

/cgi-bin/factory_reset?uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.

Response message

Status code	Content	Description
200	<?xml version="1.0" encoding="UTF-8"?> <factory_reset>true</factory_reset>	The request was successful.

3.7 Network

/cgi-bin/network?uid=XXXXXXXX

/cgi-bin/network?dhcp=0&uid=XXXXXXXX

/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=XXXXXXXX

/cgi-bin/network?port=80&uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.
dhcp	Option: 1 0	1 Enable DHCP, 0 Disable DHCP
ipaddr		IP address
netmask		Subnet mask
gateway		Gateway address
dns1		Preferred DNS
dns2		Standby DNS
port	Numbers 80 or from 1000 to 65535	Server port

Response message

Status code	Content	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"	The request was successful. The value of the parameter is: macaddr: MAC address dhcp: 1 Enable DHCP, 0 Disable DHCP

	dns2="8.8.8.8" port="80"/>	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>	Parameter dhcperror (Other parameters similar to the wrong tips do not repeat the explanation)

3.8 Time

/cgi-bin/time?uid=XXXXXXXX

/cgi-bin/time?timezone=GMT+08:00&uid=XXXXXXXX

/cgi-bin/time?update_method=MANUAL&year=2017&month=11&day=30&hour=8&min=0&sec=0&uid=XXXXXXXX

/cgi-bin/time?update_method=ntp&ntpaddr=pool.ntp.org&port=123&uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.
timezone	Option: GMT+00:00 GMT+01:00 GMT+02:00	Time zone

	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 GMT-08:00 GMT-09:00 GMT-10:00 GMT-11:00 GMT-12:00	
update_method	Option: MANUAL NTP P2P	Update method
year	Numbers	year
month	Numbers	month
day	Numbers	day
hour	Numbers	hour

min	Numbers	minute
sec	Numbers	Seconds
ntpaddr		NTP server address
port	Numbers 80 or from 1000 to 65535	NTP server port

Response message

Status code	Content	Description
200	<pre><?xml version="1.0" encoding="UTF-8"?> <time timezone="GMT+08:00" update_method="ntp" ntpaddr="pool.ntp.org" port="123" current_time="2017-11-3008:00:00"/></pre>	<p>The request was successful. The value of the parameter is:</p> <p>timezone: Time zone update_method: Update method ntpaddr: NTP server address port: NTP server port current_time: Current time</p>
400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/time</value> <reason>timezoneerror</reason> </fault></pre>	<p>Parameter timezoneerror (Other parameters similar to the wrong tips do not repeat the explanation)</p>

3.9 Video encoding capabilities

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

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.

Response message

Status code	Content	Description
200	<pre><?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> </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"></pre>	<p>The request was successful. The value of the parameter is:</p> <ul style="list-style-type: none"> stream1: Main stream stream2: Substream encode_mode: Encode mode resolution: Resolution framerate_range: Framerate range bitrate_range: Bitrate range

	<pre> <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>	
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3.10 Video encoding configuration

/cgi-bin/videoencoder?uid=XXXXXXXX

/cgi-bin/videoencoder/stream1?encode_mode=H265&resolution=1080P&framerate=25&govlength=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

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.
encode_mode		Encode_mode. Options available through the /cgi-bin/videoencoder/getcapabilities interface
resolution		Resolution. Options available through the /cgi-bin/videoencoder/getcapabilities interface

framerate		Framerate. Options available through the /cgi-bin/videoencoder/getcapabilities interface
govlength		Gov length
bitrate		Bitrate. Options available through the /cgi-bin/videoencoder/getcapabilities interface
bitrate_control	Option: CBR VBR	Bitrate control type

Response message

Status code	Content	Description
200	<pre><?xml version="1.0" encoding="UTF-8"?> <videoencoder> <stream1 encode_mode="H265" resolution="1080P" framerate="25" govlength="100" bitrate="2500" bitrate_control="CBR"/> <stream2 encode_mode="H265" resolution="480X360" framerate="25" govlength="100" bitrate="200" bitrate_control="CBR"/> </videoencoder></pre>	<p>The request was successful. The value of the parameter is:</p> <ul style="list-style-type: none"> stream1: Main stream stream2: Substream encode_mode: Encode mode resolution: Resolution framerate_range: Framerate range govlength: Gov length bitrate_range: Bitrate range bitrate_control: Bitrate control type
400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/videoencoder/stream1</value></pre>	

	<pre><reason>encode_modeerror</reason> </fault></pre>	Parameter encode_modeerror (Other parameters similar to the wrong tips do not repeat the explanation)
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3.11 Audio encoding capabilities

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

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.

Response message

Status code	Content	Description
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>	The request was successful. The value of the parameter is: encode_type: Encode type samplerate: Samplerate bitrate: Bitrate

3.12 Audio encoding configuration

/cgi-bin/audioencoder?uid=XXXXXXXX

/cgi-bin/audioencoder?enable=0&uid=XXXXXXXX

/cgi-bin/audioencoder?enable=1&uid=XXXXXXXX

/cgi-bin/audioencoder?enable=1&encode_type=G.711&samplerate=8000&bitrate=64000&uid=XXXXXXXX

/cgi-bin/audioencoder?input_volume=60&output_volume=80&lify=1&uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.
enable	Option: 1 0	1 Enable audio, 0 Disable audio
encode_type		Encode type. Options available through the /cgi-bin/audioencoder/getcapabilities interface
samplerate		Samplerate. Options available through the /cgi-bin/audioencoder/getcapabilities interface
bitrate		Bitrate. Options available through the /cgi-bin/audioencoder/getcapabilities interface
input_volume	Numbers from 1 to 100	Input volume
output_volume	Numbers from 1 to 100	Output volume
amplify	Option: 1 0	1 Enable audio amplifier, 0 Disable audio amplifier

Response message

Status code	Content	Description
200	<pre><?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>The request was successful. The value of the parameter is:</p> <p>enable: Enable or disable audio encode_type: Encode type samplerate: Samplerate bitrate: Bitrate input_volume: Input volume output_volume: Output volume amplify: Enable or disable audio amplifier</p>
400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/audioencoder</value> <reason>enable: 0 or 1</reason> </fault></pre>	<p>Parameter enableerror (Other parameters similar to the wrong tips do not repeat the explanation)</p>

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=XXXXXXXX&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 yy-
mm-dd_hh:mm:ss&title_utf8=XXXXXXXX&uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuidinterface.
enable	Option: 0 1	1 Enable OSD, 0 Disable OSD
color	Option: 0 1 2 3	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	Option: 0 1 2	Font size. 0 Small, 1 Medium, 2 Large
title_pos_type	Option: 0 1	Title position type. 0 Direction, 1 Coordinate
title_pos_x	Numbers	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	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	Option: 0 1 2 3	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	Option: 0 1	Time position type. 0 Direction, 1 Coordinate
time_pos_x	Numbers	time_pos_type=0 time_pos_type=1

		Time x-axis position. Values 0 to 2 for time_pos_type = 0 and 0 to 100 for time_pos_type = 1
time_pos_y	Numbers	Time y-axis position. Values 0 to 2 for time_pos_type = 0 and 0 to 100 for time_pos_type = 1
show_week	Option: 0 1	1 shows the week, 0 does not show the week
time_format	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	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		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

		<p>title_utf8=ipcamera</p> <p>title_utf8=%E4%BD%A0%E5%A5%BD ipcamera</p> <p>title_utf8=%E4%BD%A0%E5%A5%BDipcamera</p>
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Response message

Status code	Content	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>The request was successful. The value of the parameter is:</p> <p>enable: Enable or disable OSD</p> <p>color: Color</p> <p>fontsize: Fontsize</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>	Parameter enableerror (Other parameters similar to the wrong tips do not repeat the explanation)
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3.14 Image

/cgi-bin/image?uid=XXXXXXXX

/cgi-bin/image?brightness=128&contrast=128&saturation=128&sharpness=128&uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.
brightness	Numbers from 0 to 255	Brightness
contrast	Numbers from 0 to 255	Contrast
saturation	Numbers from 0 to 255	Saturation
sharpness	Numbers from 0 to 255	Sharpness

Response message

Status code	Content	Description
200	<pre><?xml version="1.0" encoding="UTF-8"?></pre>	

	<pre><image brightness="128" contrast="128" saturation="128" sharpness="128"/></pre>	<p>The request was successful. The value of the parameter is:</p> <p>brightness: Brightness contrast: Contrast saturation: Saturation sharpness: Sharpness</p>
400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/image</value> <reason>brightness range:0-255</reason> </fault></pre>	<p>Parameter brightnesserror (Other parameters similar to the wrong tips do not repeat the explanation)</p>

3.15 PTZ

stop

```
/cgi-bin/ptz_ctrl?stop=1&uid=XXXXXXXX
```

left

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

right

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

up

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

down

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

upper left

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

lower left

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

upper right

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

lower right

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

zoom narrow

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

zoom wide
 /cgi-bin/ptz_ctrl?zoom=-1&uid=XXXXXXXX
 focus near
 /cgi-bin/ptz_ctrl?focus=1&uid=XXXXXXXX
 focus far
 /cgi-bin/ptz_ctrl?focus=-1&uid=XXXXXXXX
 iris open
 /cgi-bin/ptz_ctrl?iris=1&uid=XXXXXXXX
 iris close
 /cgi-bin/ptz_ctrl?iris=-1&uid=XXXXXXXX
 call preset
 /cgi-bin/ptz_ctrl?call_preset=1&uid=XXXXXXXX
 add preset
 /cgi-bin/ptz_ctrl?add_preset=1&uid=XXXXXXXX
 delete preset
 /cgi-bin/ptz_ctrl?delete_preset=1&uid=XXXXXXXX

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.
speed	Numbers from 1 to 10	Speed
		Other parameters are not listed, according to the URL listed above

Response message

Status code	Content	Description
200	<pre><?xml version="1.0" encoding="UTF-8"?> <ptz_ctrl>true</ptz_ctrl></pre>	The request was successful.
400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/ptz_ctrl</value> <reason>move_x range: -1,0,1</reason> </fault></pre>	Parameter move_x_error (Other parameters similar to the wrong tips do not repeat the explanation)

3.16 Motion Detect configuration

/cgi-bin/motion?uid=XXXXXXXX

/cgi-bin/motion?enable=0&uid=XXXXXXXX

/cgi-bin/motion?enable=1&uid=XXXXXXXX

/cgi-bin/motion?enable=1&blockcount=22x18&areavalue=XXXXXXXX &uid=XXXXXXXX

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

Parameter name	Parameter value	Description
uid		User id for the session. The id passed through the /cgi-bin/getuid interface.
enable	Option 1 0	Motion detection enable 1 Start motion detection 0 Turn off motion detection.
sensitivity	Number 1 to 100	sensitivity
alarmthreshold	Number 1 to 100	alarm threshold.
enable_nighttime	Option 1 0	Night parameter enable 1 Enable nighttime parameters 0 Disable nighttime parameters. Night parameters include: night_sensitivity, night_alarmthreshold.
night_sensitivity	Number 1 to 100	Night sensitivity
night_alarmthreshold	Number 1 to 100	Night alarm threshold

blockcount	String Row block number x column block number	Number of area blocks for motiondetection
areavalue		<p>Motion detection area value Description:</p> <p>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.</p> <p>For example: All 4x4 areas are selected, the motiondetection area value is: ffff, and all are unchecked, it is0000.</p>

Response message

Status code	Content	Description
200	<pre><?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="xxxxxxxx"/></pre>	<p>The request was successful. The value</p> <p>Enable: Enable or disable motion Sensitivity: sensitivity Alarmthreshold: alarm threshold Enable_nighttime: Enable or disable Night_sensitivity: night sensitivity Night_alarmthreshold: night alarm Blockcount: number of area blocks Areavalue: motion detection area</p>

400	<pre><?xml version="1.0" encoding="UTF-8"?> <fault> <value>/cgi-bin/motion</value> <reason>enable: 0 or 1</reason> </fault></pre>	Parameter enableerror (Other parameters similar to the wrong tips do not repeat the explanation)