HX IP Camera CGI Instruction

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Version update description

Version	editor	Modification time	Modification content
1.0	Himmy Ho	2011-07-30	First release
1.1	Franck Zhao	2011-09-08	Revise
1.2	Franck Zhao	2012-02-22	1. param.cgi?cmd=getimageattr param.cgi?cmd=setimageattr Add description of 53xmk model 2. Added request I frame 3. param.cgi?cmd=requestifrm
1.3	Franck Zhao	2012-08-01	1. param.cgi?cmd=chkwirelessattr Added configuration detection wireless parameters 2. param.cgi?cmd=getchkwireless Added acquisition of detection WiFi results
1.4	Franck Zhao	2018-02-08	Revise
			1、param.cgi?cmd=getaudioalarmattr 2、param.cgi?cmd=getdevices 3、param.cgi?cmd=gettimerreboot 4、param.cgi?cmd=getlanguage 5、param.cgi?cmd=getmotorrange 6、param.cgi?cmd=getlampctrl 7、param.cgi?cmd=setlampctrl
1.5	Franck Zhao	2019-11-12	Revise

			1、/param.cgi?cmd=getsmdattr 2、/param.cgi?cmd=setsmdattr 3、/param.cgi?cmd=getsmdex 4、/param.cgi?cmd=setsmdex 5、/param.cgi?cmd=getmdalarm 5、/param.cgi?cmd=setmdalarm Remarks: add 5m resolution primary、secondary code streams and intelligent human shape recognition

HX IP Camera CGI Brief Introduction

The CGI listed in this paper is a set of interfaces based on HTTP protocol provided by IP camera. The client program (which can be a web page running on a web browser or other applications) can operate the device through CGI.

- Security authentication of CGI: the CGI listed below requires security authentication when accessing it. Moreover, different CGI interfaces require different permissions, which are divided into three levels: visitor, operator and manager. The permission is determined by the user set on the device. The specific security authentication mechanism supports two ways: the basic security authentication mechanism specified in HTTP protocol and directly attaching user name and password to CGI parameters.
- Methods to access CGI: among all HTTP methods, CGI listed in this article only supports “get” and “post”, and “upgrade.cgi” and “restore.cgi” only support “post” way.

  Get Sample

```
<form name="form2" method="get" action="cgi-bin/hi3510/cleanlog.cgi">
    <input name="cururl" type="hidden" >
    <input name="name" type="hidden" value="access">
</form>
```

  Post Sample：

```
<form name="form5" method="post" target="retframe" enctype="multipart/form-data"
```

```
action="cgi-bin/hi3510/upgrade.cgi" onSubmit="return upgrade()">
<td colspan="3"><input type="file" name="setting_file" >
<input type="submit" value=" submit" >
</form>
```

- Cgi return: According to the different returned information, the CGI listed in this paper can be divided into two types:
  - ✓ Obtain CGI of equipment status and parameters.

    If it is successful, the text including the device status or parameters will be returned. The specific format is similar to the variable definition in java script. Each status or parameter will be defined as a variable and returned, such as:：

    ```
    var bps_1="2048";
    var fps_1="25";
    var gop_1="50";
    var brmode_1="1";
    var imagegrade_1="1";
    var width_1="704";
    var height_1="576";
    ```

    If the acquisition fails, an error message is returned, such as：“[Error]Get video attribution error! Error code is 0xa10e6008”。
  - ✓ CGI for setting device parameters or operation.

    This type of CGI will return text information containing the operation results. If it is successful, it will return“HTTP/1.0 200 OK”； If it fails, specific error information will be returned, such as：“[Error][Data-Length:91] unrecognized or incomplete command line.” Means that the parameters attached to CGI are incorrect.
  - ✓ CGI can be entered to test directly in the browser, as follows:

    http://192.168.1.6/cgi-bin/hi3510/param.cgi?cmd=getwirelessattr

    You can also attach the user name and password directly:

    http://192.168.1.88/cgi-bin/hi3510/param.cgi?cmd=getvencattr&-chn=11&-usr=admin&-pwd=admin

    http://192.168.1.6/cgi-bin/hi3510/param.cgi?cmd=getwirelessattr&-usr=admin&-pwd=admin

1. Video& Audio

Param.cgi?cmd=getaudioalarmattr

Function	Voice alarm
Limits of authority	admin
Grammar	/cgi-bin/hi3510/param.cgi? cmd=getaudioalarmattr

Parameter	null
Return	var aa_enable 0: turn off、1：turn on
	var aa_value Volume size
Remarks	null
Example	/cgi-bin/hi3510/param.cgi? cmd=getaudioalarmattr

param.cgi?cmd=getvideoattr

Function	Obtain the device video attributes, First 、 Second and Third code stream resolution, video format and video coding.	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getvideoattr]	
Parameter	Null	
Return	Video mode	31: 720P_Q720P_QQ720P 32: 720P_QQ720P_QQ720P ~~33: Q720P_Q720P_QQ720P~~ ~~34: Q720P_QQ720P_QQ720P~~ 35: 720P_D1_CIF 36: 720P_CIF_CIF 41: 1080P_Q720P_QQ720P 42: 1080P_QQ720P_QQ720P 45: 1080P_D1_CIF 46: 1080P_CIF_CIF 51: 960P_VGA_QVGA 52: 960P_QVGA_QVGA 53:VGA_VGA_QVGA 54: VGA_QVGA_QVGA 55: 960P_D1_CIF 56: 960P_CIF_CIF 17: D1_CIF_CIF 20: CIF_CIF_CIF 101:5M_600P
	vinorm	P: 50Hz(PAL) N: 60Hz(NTSC)
	Profile	0: baseline 1: main profile
	var maxchn	Maximum channels of code stream

	wdr=0	0 linear 1 wide dynamic
remarks	Note： Resolution of 720P: 1280x720 Resolution of Q720P: 640x352 Resolution of QQ720P： 320x176 Resolution of 960P: 1280x960 Resolution of VGA: 640x480 Resolution of QVGA: 320x240 Resolution of 1080P: 1920x1080 Resolution of D1: 704x576 Resolution of CIF: 352x288 Resolution of 5M: 2560x1920 Resolution of 600P: 800x600 Note： 720P_Q720P_QQ720P: First code stream:720P， Second code stream:Q720P，Third code stream:QQ720P	
Sample	/cgi-bin/hi3510/param.cgi?cmd=getvideoattr	

param.cgi?cmd=setvideoattr

Function	Set video properties for device	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setvideoattr&-vinorm=&-profile=&-videomode=]	
Parameters	vinorm	P: 50Hz(PAL) N: 60Hz(NTSC)
	profile	0: baseline 1: mainprofile
	videomode	31: 720P_Q720P_QQ720P 32: 720P_QQ720P_QQ720P ~~33: Q720P_Q720P_QQ720P~~ ~~34: Q720P_QQ720P_QQ720P~~ 35: 720P_D1_CIF 36: 720P_CIF_CIF 41: 1080P_Q720P_QQ720P 42: 1080P_QQ720P_QQ720P 45: 1080P_D1_CIF

<table>
<tr><td></td><td></td><td>46: 1080P_CIF_CIF
51: 960P_VGA_QVGA
52: 960P_QVGA_QVGA
53:VGA_VGA_QVGA
54: VGA_QVGA_QVGA
55: 960P_D1_CIF
56: 960P_CIF_CIF
17: D1_CIF_CIF
20: CIF_CIF_CIF
101:5M_600P</td></tr>
<tr><td rowspan="2">Return</td><td>wdr=0</td><td>0 linear
1 wide dynamic</td></tr>
<tr><td colspan="2">Success: include Success
Failed：include Error

Note：
Resolution of 720P: 1280x720
Resolution of Q720P: 640x352
Resolution of QQ720P： 320x176
Resolution of 960P: 1280x960
Resolution of VGA: 640x480
Resolution of QVGA: 320x240
Resolution of 1080P: 1920x1080
Resolution of D1: 704x576
Resolution of CIF: 352x288
Resolution of 5M: 2560x1920
Resolution of 600P: 800x600

Note：
720P_Q720P_QQ720P: First code stream:720P， Second code stream:Q720P，Third code stream:QQ720P
Note：
Long return time</td></tr>
<tr><td>Remarks</td><td colspan="2">Null</td></tr>
<tr><td>Sample</td><td colspan="2">/cgi-bin/hi3510/param.cgi?cmd=setvideoattr&-vinorm=N&-profile=1&-videomode=32&-wdr=1</td></tr>
</table>

param.cgi?cmd=getfisheyeattr

Function	Get fisheye parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getfisheyeattr]	
Parameters	null	
Return	fisheye_flag	0-turn off, 1-turn on
	fisheye_mode	0-ceillingmount, 1-wall mount
	fisheye_lens	0、 gc2033+K119 1、 h65+H106A 2、 imx323+K104 3、 sc4236+H103A
	fisheye_xcircle	Center X coordinate
	fisheye_ycircle	Center Y coordinate
	fisheye_rcircle	Radius of circle
Remarks	null	
Example	/cgi-bin/hi3510/param.cgi?cmd=getfisheyeattr	

param.cgi?cmd=setfisheyeattr

Function	Get fisheye parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setfisheyeattr]	
Parameters	null	
Return	fisheye_flag	0-turn off, 1-turn on
	fisheye_mode	0-ceillingmount, 1-wall mount
	fisheye_lens	4、 gc2033+K119 5、 h65+H106A 6、 imx323+K104 7、 sc4236+H103A
	fisheye_xcircle	Center X coordinate
	fisheye_ycircle	Center Y coordinate
	fisheye_rcircle	Radius of circle
Remarks	Null	
Example	/cgi-bin/hi3510/param.cgi?cmd=setfisheyeattr&-fisheye_flag=1&-fisheye_mode=0&-fisheye_lens=0	

param.cgi?cmd=getvencattr

Function	Get device video coding parameters	
Limits of authority	admin、userandguest	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getvencattr &-chn=]	
Parameters	chn	Code stream number： 11：First steam 12: Second code stream 13: Third code stream
Return	bps_1、bps_2 OR bps_3	Bit rate
	fps_1、fps_2 OR fps_3	Frame rate
	gop_1、gop_2 OR gop_3	Main frame interval
	brmode_1 、 brmode_2 OR brmode_3	Video coding control: 0: fixed bit rate 1: Variable bit rate
	imagegrade_1 、 imagegrade_2 OR imagegrade_3	Video coding quality
	width_1 、 width_2 OR width_3	Video width
	height_1 、 height_2 OR height_3	Video height
Remarks	Note: the suffix "_1" is the first code stream parameter, the suffix "_2" is the second code stream parameter, and the suffix "_3" is the third code stream parameter.	
Example	/cgi-bin/hi3510/param.cgi?cmd=getvencattr&-chn=11	

param.cgi?cmd=setvencattr

Function	Configure device video coding parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setvencattr&-chn=&-bps=&-fps=&-brmode=&-imagegrade=&-gop=]	
Parameters	chn	Channel number: 11: First code stream 12: Second code stream 13: Third code stream

	bps	Bit rate: 720p: range [32 ~ 6144 Kbps] 1080p: range [32 ~ 8192 Kbps] D1: range [32 ~ 2048 Kbps] CIF: range [32 ~ 512 Kbps] QCIF: range [32 ~ 256 Kbps] VGA: range [32 ~ 2048 Kbps] QVGA: range [32 ~ 512 Kbps] Qqvga: range [32 ~ 256 Kbps] 5m (2560 * 1920): range [32-6144 Kbps] 600P (800 * 600): range [32-2048 Kbps]
	fps	Frame rate: PAL system: range [1 ~ 25] NTSC system: range [1 ~ 30]
	brmode	Video coding control: 0: fixed bit rate 1: Variable bit rate
	imagegrade	Video coding quality: range [1 ~ 6] Note: the smaller the value, the better the image quality and the larger the bitstream control amplitude
	gop	Main frame interval: range [2 ~ 150]
Return	Success: include success Failed: contains error	
Remarks	Null	
Example	/cgi-bin/hi3510/param.cgi?cmd=setvencattr&-chn=11&-bps=1536&-fps=25&-brmode=1&-imagegrade=1&-gop=50	
	/cgi-bin/hi3510/param.cgi?cmd=setvencattr&-chn=12&-bps=1536&-fps=25&-brmode=1&-imagegrade=1&-gop=50	
	/cgi-bin/hi3510/param.cgi?cmd=setvencattr&-chn=11&-bps=1536&-fps=25	

param.cgi?cmd=getimageattr

Function	Get image parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getimageattr]	
Parameters	null	
Return	brightness	Brightness

	saturation	Saturation
	contrast	Contrast ratio
	sharpness	Sharpness
	hue	Chroma
	targety	Exposure
	gamma	Gamma
	flip	Image flip: On: on Off: off
	mirror	Mirror image: On: on Off: off
	night	Night mode: On: on Off: off
	shutter	快门
	wdr	Wide dynamic: On: on Off: off
	noise	Denoising intensity (0-100, working under low illumination)
	gc	Gain, value range [0-4294967295]
	aemode	Exposure mode, value range [0-22] 0 for automatic, 1 for indoor, 2 for outdoor.
	imgmode	Image priority mode 0: Frame rate priority 1: Illumination priority
	display_mode	Current mode 0: black and white mode 1: Color mode
Remarks	Different devices have different image parameters. Please refer to Appendix I, Equipment Type Definition	
Example	/cgi-bin/hi3510/param.cgi?cmd=getimageattr	

param.cgi?cmd=setimageattr

Function	Set image parameters

Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setimageattr&-image_type=&-brightness=&-saturation=&-contrast=&-hue=&-targety=&-gamma=&-flip=&-mirror=&-noise=&-aemode=&-imgmode=]	
Parameters	brightness	Brightness
	saturation	Saturation
	contrast	Contrast
	sharpness	Sharpness
	hue	Chroma
	targety	Exposure
	gamma	Gamma
	flip	Flip image up and down: On: on Off: off
	mirror	Mirror flip (left &Right &up &down): On: on Off: off
	night	Night mode: On: on Off: off
	shutter	shutter
	wdr	Wide dynamic: On: on Off: off
	noise	Denoising intensity (0-100, working under low illumination)
	gc	Gain, value range [0-4294967295]
	aemode	Exposure mode, value range [0-22] 0 for automatic, 1 for indoor, 2 for outdoor.
	imgmode	Image priority mode 0: Frame rate priority 1: Illumination priority
	display_mode	Current mode 0 means Night vision， 1 means day vision.(the setting parameters are effective only in the corresponding current mode.)
Return	Success: include success Error: contains error	

Remarks	Different equipment parameters are not exactly the same, please refer to Appendix I, Equipment Type Definition The image parameter setting must take effect in the current mode, otherwise the setting is invalid.
Example	/cgi-bin/hi3510/param.cgi?cmd=setimageattr&-image_type=1&-brightness=1&-saturation=1&-contrast=1&-hue=1&-gamma=1&-flip=on&-mirror=on&-noise=5&-aemode=0&-imgmode=1

param.cgi?cmd=getldcattr

Function	Get lens distortion value	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getldcattr]	
Parameters	null	
Return	ldc_ratio	Distortion value[0-511]
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getldcattr	

param.cgi?cmd=setldcattr

Function	Set lens distortion value	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setldcattr&- ldc_ratio =]	
Parameters	ldc_ratio	Distortion value[0-511]
Return	Success: include success Error: contains error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setldcattr&- ldc_ratio=1	

param.cgi?cmd=getircutattr

Function	Get IRCut switching threshold	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getircutattr]	
Parameters	null	
Return	saradc_switch_value	IRCut switching threshold[1-1024]
Remarks	null	

Example	/cgi-bin/hi3510/param.cgi?cmd=getircutattr

param.cgi?cmd=setircutattr

Function	Set IRCut switching threshold	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setircutattr&-saradc_switch_value=]	
Parameters	saradc_switch_value	IRCut switching threshold[1-1024]
Return	Success: include success Error: contains error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setircutattr&-saradc_switch_value=700	

param.cgi?cmd=getoverlayattr

Function	Get OSD Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getoverlayattr&-region=]	
Parameters	region	Area 0: OSD Time area 1: OSD Name area
Return	x_[region]	OSD area x coordinate
	y_[region]	OSD area y coordinate
	w_[region]	OSD area width
	h_[region]	OSD area high
	show_[region]	Is OSD displayed 0: Hidden 1: Show
	place_[region]	0: Top 1: Bottom
	name_[region]	OSD name
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getoverlayattr&-region=0	

param.cgi?cmd=setoverlayattr

Function	Set OSDParameters

Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setoverlayattr&-region=&-show=&-name=&-place=]	
Parameters	region	Area 0: OSD Time area 1: OSD Name area
	show	Is OSD displayed 0: Hidden 1: Show
	place	0: Top 1: Bottom
	name	OSD name, English only. The character length cannot exceed 16
Return	Success: include Success Error: contains Error	
Remarks	Note: region_0 OSD area does not support nameParameters	
Example	/cgi-bin/hi3510/param.cgi?cmd=setoverlayattr&-region=0&-show=0	
	/cgi-bin/hi3510/param.cgi?cmd=setoverlayattr&-region=1&-show=1&-name=IPCam&-place=0	

param.cgi?cmd=getmobilesnapattr

Function	Get phone image Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getmobilesnapattr]	
Parameters		
Return	msize	1: Maximum resolution of the second code stream 2: Minimum resolution of the second code stream
Remarks	Some models do not support this attribute. For details, please refer to Appendix I, Equipment Type Definition for details	
Example	/cgi-bin/hi3510/param.cgi?cmd=getmobilesnapattr	

param.cgi?cmd=setmobilesnapattr

Function	Set phone image Parameters
Limits of authority	admin
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setmobilesnapattr&-msize=]

Parameters	msize	1: Maximum resolution of the second code stream 2: Minimum resolution of the second code stream
Return	Success: include Success Error: contains Error	
Remarks	Some models do not support this attribute. For details, please refer to Appendix I, Equipment Type Definition	
Example	/cgi-bin/hi3510/param.cgi?cmd=setmobilesnapattr&-msize=1	

param.cgi?cmd=getaencattr

Function	Get audio encoding Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getaencattr&-chn=]	
Parameters	chn	Channel number: 11: First code stream 12: Second code stream 13: Third code stream
Return	aeswitch_1、aeswitch_2 Or aeswitch_3	Turn on/off audio coding 0: Off 1: Open
	aeformat_1、aeformat_2 Or aeformat_3	Audio coding format g711a: G711A 64Kbps g726: G726 16Kbps
Remarks	_ 1 is the first code stream_ 2 is the second code stream_ 3 is the third code stream. The audio sampling rate is 8K, mono, 16 bit wide.	
Example	/cgi-bin/hi3510/param.cgi?cmd=getaencattr&-chn=11	

param.cgi?cmd=setaencattr

Function	Set audio encoding Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setaencattr&-chn=]	
Parameters	chn	Channel number: 11: First code stream 12: Second code stream 13: Third code stream
	aeswitch	Turn on/off audio coding 0: Off

		1: Open
	aeformat	Audio coding format g711a: G711 64Kbps g726: G726 16Kbps
Return	Success: include Success Error: contains Error	
Remarks	The audio sampling rate is 8K, mono, 16 bit wide.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setaencattr&-chn=11&-aeswitch=0	
	/cgi-bin/hi3510/param.cgi?cmd=setaencattr&-chn=12&-aeswitch=1&-aeformat=g726	

param.cgi?cmd=getaudioinvolume

Function	Get input audio volume	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getaudioinvolume]	
Parameters		
Return	Volume	Volume size [1-100]
	aec	Echo cancellation 0: off 1: on
	denoise	noise reduction
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getaudioinvolume	

param.cgi?cmd=setaudioinvolume

Function	Set input audio volume	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setaudioinvolume&-volume=]	
Parameters	volume	Volume size [1-100]
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setaudioinvolume&-volume=80	

param.cgi?cmd=getaudiooutvolume

Function	Get output audio volume

Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getaudiooutvolume]	
Parameters		
Return	ao_volume	Volume size [1-100]
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getaudiooutvolume	

param.cgi?cmd=setaudiooutvolume

Function	Set output audio volume	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setaudiooutvolume&-volume=]	
Parameters	volume	Volume size [1-100]
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setaudiooutvolume&-volume=80	

param.cgi?cmd=getaudioinvolume

Function	Get input type	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getaudioinvolume]	
Parameters		
Return	volin_type	0: Linear input 1: MIC input
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getaudioinvolume	

param.cgi?cmd=setaudioinvolume

Function	Set input type	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setaudioinvolume &-volin_type=]	
Parameters	volin_type	0: Linear input 1: MIC input
Return	Success: include Success	

	Error: contains Error
Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=setaudioinvolume &-volin_type=0

param.cgi?cmd=requestifrm

Function	Request the next frame as a keyframe	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=requestifrm&-chn=]	
Parameters	chn	11, 12
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=requestifrm&-chn=11	

param.cgi?cmd=requestifrm

Function	Request the next frame as a keyframe	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=requestifrm&-chn=]	
Parameters	chn	11, 12,13
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=requestifrm&-chn=11	

param.cgi?cmd=getcover

Function	Get video occlusion Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getcover]	
Parameters		
Return	show_1	Whether to enable the video occlusion function in area 1: 0: off 1: enable
	color_1	Color of video occlusion area 1

	x_1	Abscissa of video occlusion area 1
	y_1	Ordinate of video occlusion area 1
	w_1	Width of video occlusion area 1
	h_1	Height of video occlusion area 1
	show_2	Whether to enable the video occlusion function in area 2: 0: off 1: enable
	color_2	Color of video occlusion area 2
	x_2	Abscissa of video occlusion area 2
	y_2	Ordinate of video occlusion area 2
	w_2	Width of video occlusion area 2
	h_2	Height of video occlusion area 2
	show_3	Whether to enable the video occlusion function in area 3: 0: off 1: enable
	color_3	Color of video occlusion area 3
	x_3	Abscissa of video occlusion area 3
	y_3	Ordinate of video occlusion area 3
	w_3	Width of video occlusion area 3
	h_3	Height of video occlusion area 3
	show_4	Whether to enable the video occlusion function in area 4: 0: off 1: enable
	color_4	Color of video occlusion area 4
	x_4	Abscissa of video occlusion area 4
	y_4	Ordinate of video occlusion area 4
	w_3	Width of video occlusion area 4
	h_4	Height of video occlusion area 4
Remarks	null	
Example	/cgi-bin/hi3510/param.cgi?cmd=getcover	

param.cgi?cmd=setcover

Function	Set video occlusion area Parameters

Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setcover&-show=&-region=&-color=&-x=&-y=&-w=&-h=]	
Parameters	region	video occlusion area：[1 ~ 4]
	show	Whether to enable the area video occlusion function: 0: off 1: enable
	color	Color of video occlusion area
	x	Abscissa of video occlusion area
	y	Ordinate of video occlusion area
	w	Width of video occlusion area
	h	Height of video occlusion area
Return	Success: include Success Error: contains Error	
Remarks	null	
Example	/cgi-bin/hi3510/param.cgi?cmd=setcover&-show=1&-region=1&-color=FFFFFF&-x=0&-y=0&-w=60&-h=60	

CERT File Upload

cert.cgi?-filename

Function	File Upload	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/cert.cgi?-filename=cert.pem	
Parameters		
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/cert.cgi?-filename=cert.pem	

2. Infrared and white light control

Param.cgi?cmd=getlampctrl

Function	Get white light Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getlampctrl]	
Parameters		
Return	var lampstat	Infrared light status auto: automatic open: forced open close: forced close
Remarks	Some models do not support this attribute. For details, please refer to Appendix I, Equipment Type Definition	
Example	/cgi-bin/hi3510/param.cgi?cmd=getlampctrl	

Param.cgi?cmd=setlampctrl

Function	Set white light Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setlampctrl]	
Parameters		
Return	var lampstat	Infrared light status auto: automatic open: forced open close: forced close
Remarks	Some models do not support this attribute. For details, please refer to Appendix I, Equipment Type Definition	
Example	/cgi-bin/hi3510/param.cgi?cmd=setlampctrl&-lampstat=open	

param.cgi?cmd=getinfrared

Function	Get infrared light Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getinfrared]	
Parameters		
Return	infraredstat	Infrared light status auto: automatic open: forced open close: forced close
Remarks	Some models do not support this attribute. For details, please refer to Appendix I, Equipment Type Definition	
Example	/cgi-bin/hi3510/param.cgi?cmd=getinfrared	

param.cgi?cmd=setinfrared

Function	Set infrared light Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setinfrared]	
Parameters		
Return	infraredstat	Infrared light status auto: automatic open: forced open close: forced close
Remarks	Some models do not support this attribute. For details, please refer to Appendix I, Equipment Type Definition	
Example	/cgi-bin/hi3510/param.cgi?cmd=setinfrared&-infraredstat=auto	

3. Network

param.cgi?cmd=getnetattr

Function	Get device network Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getnetattr]	
Parameters		
Return	dhcpflag	Whether to enable DHCP:

		on: enable off: turn off
	ip	IP address
	netmask	Subnet mask
	gateway	Gateway
	dnsstat	DNS status: 0: manual setting 1: Automatically set
	fdnsip	Preferred DNS
	sdnsip	Spare DNS
	macaddress	MAC address
	networktype	Network type: LAN: wired WiFi: wireless
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getnetattr	

param.cgi?cmd=setnetattr

Function	Configure device LAN network Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setnetattr&-dhcp=&-ipaddr=&-netmask=&-gateway=&-dnsstat=&-fdnsip=&-sdnsip=]	
Parameters	dhcp	Enable DHCP or not: On: enabled Off: off
	ipaddr	IP address
	netmask	Subnet mask
	gateway	gateway
	dnsstat	DNS status: 0: manual setting 1: Automatic setting
	fdnsip	Preferred DNS
	sdnsip	Spare DNS
Return	Success: include Success Error: contains Error	
Remarks		

Example	/cgi-bin/hi3510/param.cgi?cmd=setnetattr&-dhcp=off&-ipaddr=192.168.1.88&-netmask=255.255.255.0&-gateway=192.168.1.1&-dnsstat=0&-fdnsip=192.168.1.1&-sdnsip=

param.cgi?cmd=gethttpport

Function	Get HTTP port	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=gethttpport]	
Parameters		
Return	httpport	HTTP Port
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=gethttpport	

param.cgi?cmd=sethttpport

Function	Configure HTTP port	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=sethttpport&-httpport=]	
Parameters	httpport	HTTP 端口：范围[80~65535]
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically	
Example	/cgi-bin/hi3510/param.cgi?cmd=sethttpport&-httpport=80	

param.cgi?cmd=getrtspport

Function	Get RTSP and RTP ports	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getrtspport]	
Parameters		
Return	rtspport	RTSP port
	rtpport	RTP port
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getrtspport	

param.cgi?cmd=setrtspport

Function	Set RTSP and RTP ports	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setrtspport&-rtspport=&-rtpport=]	
Parameters	rtspport	RTSP 端口：范围[80~65535]
	rtpport	RTP 端口：范围[5000~8000]
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setrtspport&-rtspport=554&-rtpport=6600	

param.cgi?cmd=getrtmpattr

Function	Get RTMP port	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getrtmpattr]	
Parameters		
Return	rtmpport	RTMP port
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getrtmpattr	

param.cgi?cmd=setrtspport

Function	Set RTMP port	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setrtmpattr&-rtmpport=]	
Parameters	rtmpport	RTMP port
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setrtmpatt&-rtmpport=1935	

param.cgi?cmd=getrtspauth

Function	Get RTSP permission verification
Limits of authority	admin

Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getrtspauth]	
Parameters		
Return	rtsp_aenable	Enable RTSP permission verification or not： 0: Off 1: Open
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getrtspauth	

param.cgi?cmd=setrtspauth

Function	Configure RTSP permission verification	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setrtspauth&- rtsp_aenable=]	
Parameters	rtsp_aenable	Enable RTSP permission verification or not： 0: Off 1: Open
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setrtspauth&-rtsp_aenable=1	

param.cgi?cmd=getinterip

Function	Query the Internet IP address of this machine	
Limits of authority	admin	
Grammar	/ cgi-bin/param.cgi?cmd=getinterip	
Parameters		
Return	interip	Internet IP address, such as: interip = "220.112.14.173"
Remarks		
Example	/cgi-bin/param.cgi?cmd=getinterip	

param.cgi?cmd=getupnpattr

Function	Get UPNP Parameters
Limits of authority	admin
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getupnpattr]

Parameters		
Return	upm_enable	Enable UPNP port mapping: 0: Off 1: Enable
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getupnpattr	

param.cgi?cmd=setupnpattr

Function	Set UPNP Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setupnpattr&-upm_enable=]	
Parameters	upm_enable	Enable UPNP port mapping: 0: Off 1: Enable
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setupnpattr&-upm_enable=1	

param.cgi?cmd=getplatformtype

Function	Get platform serial number	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getplatformtype]	
Parameters		
Return	pftype	Platform Serial No： 0：hichip 1：Langtao 3：TUTK 5：Dana 6：Ojet 8：Haixi
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getplatformtype	

param.cgi?cmd=setplatformtype

Function	Set platform serial number	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setplatformtype&-pftype=]	
Parameters	pftype	platform serial number： 0：hichip 1：Langtao 3：TUTK 5：Dana 6：Ojet 8：Haixi
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setplatformtype&-pftype=0	

param.cgi?cmd=getoplatformattr

Function	Get hichip platform Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getoplatformattr]	
Parameters		
Return	op_state	Connection status 1: Go online 0: Offline
	op_enable	Is the platform connection enabled 1: Open 0: Off
	op_server	Server ip Address
	op_port	Port
	op_uname	Login ID
	op_passwd	Password
	op_timeout	Timeout
Remarks		

Example	/cgi-bin/hi3510/param.cgi?cmd=getoplatformattr

param.cgi?cmd=setplatformtype

Function	Set hichip platform Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?setoplatformattr&-op_enable=&-op_uname=&-op_passwd=&-op_server=&-op_port=&-op_timeout=]	
Parameters	op_enable	Is the platform connection enabled 1: Open 0: Off
	op_server	server address
	op_port	port
	op_uname	Login ID
	op_passwd	password
	op_timeout	Timeout
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setoplatformattr&-op_enable=1&-op_uname=a&-op_passwd=b&-op_server=192.168.1.26&-op_port=12105&-op_timeout=5	

param.cgi?cmd=getgoolinkattr

Function	Access Langtao Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getgoolinkattr]	
Parameters		
Return	goolink_enable	Is the platform connection enabled 1: Open 0: Off
	goolink_uid	UID
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getgoolinkattr	

param.cgi?cmd=setgoolinkattr

Function	Set Langtao Platform Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?setgoolinkattr&-goolink_enable=&-goolink_uid=]	
Parameters	goolink_enable	Is the platform connection enabled 1: Open 0: Off
	goolink_uid	UID
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setgoolinkattr&-goolink_enable=1&-goolink_uid=zz08580aa545	

param.cgi?cmd=getp2pattr

Function	Access TUTK Platform Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getp2pattr]	
Parameters		
Return	p2p_enable p2p_mode p2p_pushaddr	Is the platform connection enabled 1: Open 0: Off
	p2p_uid	UID
	p2p_server1	Server address 1
	p2p_server2	Server address 2
	p2p_server3	Server address 3
	p2p_server4	Server address 4
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getp2pattr	

param.cgi?cmd=setp2pattr

Function	Set TUTK Platform Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setp2pattr&-p2p_enable=&-p2p_uid=&-p2p_server1=&-p2p_server2=&-p2p_server3=&-p2p_server4=]	
Parameters	p2p_enable	Is the platform connection enabled 1: Open 0: Off
	p2p_uid	UID
	p2p_server1	Server address 1
	p2p_server2	Server address 2
	p2p_server3	Server address 3
	p2p_server4	Server address 4
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setp2pattr&-p2p_enable=1&-p2p_uid=FLCTB5ME9WAF8MPPSFFS&-p2p_server1=50.19.254.134&-p2p_server2=122.248.234.207&-p2p_server3=m2.iotcplatform.com&-p2p_server4=m5.iotcplatform.com&	

param.cgi?cmd=getdanaattr

Function	Access danale Platform Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getdanaattr]	
Parameters		
Return	dana_enable	Is the platform connection enabled 1: Open 0: Off
	dana_server	Server ip Address
	dana_port	Port
	dana_sn	Serial Number
Remarks		

Example	/cgi-bin/hi3510/param.cgi?cmd=getdanaattr

param.cgi?cmd=setdanaattr

Function	Set danale Platform Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setdanaattr&-dana_enable=&-dana_server=&-dana_port =&-dana_sn =]	
Parameters	dana_enable	Is the platform connection enabled 1: Open 0: Off
	dana_server	Server ip Address
	dana_port	Port
	Serial Number	Serial Number
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setdanaattr&-dana_enable=1&-dana_server= svrshp.thingsnic.com&-dana_port=80&-dana_sn=MMDQ7H87CL9DKZWFT	

param.cgi?cmd=getobjattr

Function	Access Ojet Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getobjattr]	
Parameters		
Return	obj_enable	Is the platform connection enabled 1: Open 0: Off
	obj_uid	Serial Number
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getobjattr	

param.cgi?cmd=setobjattr

Function	Set Ojet Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setobjattr&-obj_enable=&-obj_uid=]	
Parameters	obj_enable	Is the platform connection enabled 1: Open 0: Off
	obj_uid	Serial Number
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setobjattr&-obj_enable=1&-obj_uid=ERTD GG3R4FGH	

param.cgi?cmd=gethip2pattr

Function	Access Haixi Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=gethip2pattr]	
Parameters		
Return	hip2p_enable	Is the platform connection enabled 1: Open 0: Off
	hip2p _uid	Serial Number
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=gethip2pattr	

param.cgi?cmd=sethip2pattr

Function	Set Haixi Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setobjattr&-hip2p_enable =&-hip2p _uid=]	
Parameters	hip2p_enable	Is the platform connection enabled 1: Open 0: Off

	hip2p _uid	Serial Number
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically.	
Example	/cgi-bin/hi3510/param.cgi?cmd=sethip2pattr&-hip2p_enable=1&-hip2p_uid=ERDBFHSAY	

param.cgi?cmd=getonvifattr

Function	Access onvif Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getonvifattr]	
Parameters		
Return	ov_enable	Open or Off 1：Open 0：Off
	ov_port	Port
	ov_authflag	Check permissions or not: 1：Calibration 0：No Calibration
	ov_forbitset var ov_snapchn var ov_snapchn var ov_nvctype	0： Time zone setting allows， Image Parameters setting allowed 1： Time Zone Setting Disable， Image Parameters setting allowed 2： Time zone setting allows， Image Parameters setting disabled 3： Time zone setting disabled， Image Parameters setting disabled
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getonvifattr	

param.cgi?cmd=setonvifattr

Function	Set onvif Parameters
Limits of authority	admin
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setonvifattr&-ov_enable=&-ov_port=&-ov

	_authflag=&-ov_forbitset=]	
Parameters	ov_enable	Open or Off 1：Open 0：Off
	ov_port	Port
	ov_authflag	【】Permissions are verified or not 1：Calibration 0：No Calibration
	ov_forbitset	0： Time zone setting allows， Image Parameters setting allows 1： Time zone setting disabled， Image Parameters setting allows 2： Time zone setting allows， Image Parameters setting disabled 3： Time zone setting disabled， Image Parameters setting disabled
Return	Success: include Success Error: contains Error	
Remarks	After the modification is successful, the device will restart automatically.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setonvifattr&-ov_enable=1&-ov_port=8080&-ov_authflag=0&-ov_forbitset=0	

4. Wifi

param.cgi?cmd=getwirelessattr

Function	Access Wifi Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getwirelessattr]	
Parameters		
Return	wf_enable	Whether to enable wireless 0: Off 1: Open
	wf_ssid	SSID Maximum 32 characters
	wf_auth	Encryption method 0: No

		1: WEP 2: WPA-PSK 3: WPA2-PSK
	wf_key	Key
	wf_enc	Password Type 0: TKIP 1: AES
	wf_mode	Connection method 0: Router method 1: Peer-to-peer approach
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getwirelessattr	

param.cgi?cmd=setwirelessattr

Function	Set Wifi Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setwirelessattr&-wf_enable=&-wf_ssid=&-wf_auth=&-wf_key=&-wf_enc=&-wf_mode=]	
Parameters	wf_enable	Whether to enable wireless 0: Off 1: Open
	wf_ssid	SSID Maximum 32 characters
	wf_auth	Encryption method 0: No 1: WEP 2: WPA-PSK 3: WPA2-PSK
	wf_key	Key
	wf_enc	Password Type 0: TKIP 1: AES
	wf_mode	Connection method 0: Router method 1: Peer-to-peer approach
Return	Success: include Success Error: contains Error	

Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=setwirelessattr&-wf_ssid=linksys&-wf_enable=1&-wf_auth=2&-wf_key=1234567890&-wf_enc=0&-wf_mode=0

param.cgi?cmd=searchwireless

Function	Search for wireless networks	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=searchwireless]	
Parameters		
Return	waccess_points	Number of wireless networks searched
	wchannel	Channel
	wrssi	Signal strength
	wessid	SSID
	wenc	Encryption method
	wauth	Authentication method
	wnet	Connection Mode(Router mode, point-to-point mode)

	Note：If there are multiple wifi networks，waccess_points >1，then it will Return Multiple groups access_points, wchannel--wnet the value of the field，For example：
	var waccess_points="2" ;
	var wchannel=new Array();
	var wrssi=new Array();
	var wessid=new Array();
	var wenc=new Array();
	var wauth=new Array();
	var wnet=new Array();
	wchannel[0]="6" ;
	wrssi[0]="-82" ;
	wessid[0]="Fumax wireless" ;
	wenc[0]="AES" ;
	wauth[0]="WPA(2)-PSK" ;
	wnet[0]="Infra" ;
	wchannel[1]="11" ;
	wrssi[1]="-62" ;
	wessid[1]="linksys" ;
	wenc[1]="TKIP" ;	

	wauth[1]="WPA(2)-PSK" ; wnet[1]="Infra" ;
Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=searchwireless

param.cgi?cmd=chkwirelessattr

Function	Set Detecting wireless Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=chkwirelessattr&-wf_ssid=&-wf_auth=&-wf_key=&-wf_enc=&-wf_mode=]	
	wf_ssid	SSID Maximum 32 characters
	wf_auth	Encryption method 0: No 1: WEP 2: WPA-PSK 3: WPA2-PSK
	wf_key	Key
	wf_enc	Password Type 0: TKIP 1: AES
	wf_mode	Connection method 0: Router method 1: Peer-to-peer approach
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=chkwirelessattr&-wf_ssid=linksys&-wf_auth=3&-wf_key=1234567890&-wf_enc=0&-wf_mode=0	

param.cgi?cmd=getchkwireless

Function	Access Detection of WIFI results
Limits of authority	admin
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getchkwireless]

Parameters		
Return	chkres	Test results 0：Failure 1：Success
Remarks	To execute first: param.cgi?cmd=chkwirelessattr	
Example	/cgi-bin/hi3510/param.cgi?cmd=getchkwireless	

5. DDNS

param.cgi?cmd=getourddnsattr

Function	Get Manufacturers DDNSParameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getourddnsattr]	
Parameters		
Return	our_enable	Whether to enable the vendor DDNS： 0：Off 1：Open
	our_server	server address
	our_port	port
	our_uname	user name
	our_passwd	password
	our_domain	host name
	var out_interval	time interval
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getourddnsattr	

param.cgi?cmd=setourddnsattr

Function	Setting Manufacturer DDNSParameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setourddnsattr&-our_enable=&-our_server=&-our_port=&-our_uname=&-our_passwd=]	
Parameters	our_enable	Whether to enable the vendor DDNS： 0：Off 1：Open

	our_server	Server ip Address
	our_port	Port
	our_uname	User Name
	our_passwd	Password
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setourddnsattr&-our_enable=1&-our_server=hipcam.org&-our_port=80&-our_uname=user&-our_passwd=user	

param.cgi?cmd=get3thddnsattr

Function	Get Third Party DDNSParameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=get3thddnsattr]	
Parameters		
Return	d3th_enable	Whether to enable third party DDNS： 0：Off 1：Open
	d3th_service	DDNS Service Provider Type： 0: dyndns.org 1: 322.org 2: dynddns.us 3: No-ip.com
	d3th_uname	User Name
	d3th_passwd	Password
	d3th_domain	Host Name
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=get3thddnsattr	

param.cgi?cmd=set3thddnsattr

Function	Set up third party DDNSParameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=set3thddnsattr.&-d3th_enable=&-d3th_service=&-d3th_uname=&-d3th_passwd=&-d3th_domain=]	
Parameters	d3th_enable	Whether to enable third party DDNS：

		0：Off 1：Open
	d3th_service	DDNS Service Provider Type： 0：dyndns.org 1：3322.org 2：dynddns.us 3：No-ip.com
	d3th_uname	User Name
	d3th_passwd	Password
	d3th_domain	Host Name
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=set3thddnsattr&-d3th_enable=1&-d3th_service=1&-d3th_uname=sample&-d3th_passwd=1234&-d3th_domain=sample.dyndns.org	

6. PTZ Control

param.cgi?cmd=getmotorrange

Function	Get step	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi? cmd=getmotorrange	
Parameters	var panrange	Horizontal
	var tiltrange	Vertical
	var panhome	Centering Horizontally
	var tilthome	Vertically centered
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi? cmd=getmotorrange	

param.cgi?cmd=setmotorrange

Function	Get step	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi? cmd=setmotorrange	
Parameters	var panrange	Horizontal
	var tiltrange	Vertical
	var panhome	Centering Horizontally
	var tilthome	Vertically centered
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi? cmd=setmotorrange&-panrange=500	

param.cgi?cmd=ptzctrl

Function	PTZ Control	
Limits of authority	Admin and user	
Grammar	/cgi-bin/hi3510/param.cgi?cmd=ptzctrl.cgi[&-step=&-act=&-speed=]	
Parameters	step	Stepping method： 0： After single-step execution, the stop command must be sent again to stop 1：Automatic stop after single step execution
	act	Control command string，For example： left：To the left right：To the right up：Upward down：Downward home：Back to the center zoomin：Enlarge zoomout：Narrow focusout：Spotlight+ focusin：Spotlight- hscan：Horizontal Cruise

		vscan：Vertical Cruise stop：Stop
	speed	Cloud platform speed, the range of values is 1~63。
Return	Success: Contains Success Error: Contains Error	
Remarks	Different models support different Cloud Station parameters， Specific reference Appendix I, Equipment Type Definition	
Example	/cgi-bin/hi3510/param.cgi?cmd=ptzctrl&-step=0&-act=left&-speed=45	

param.cgi?cmd=preset

Function	Cloud station preset position operation	
Limits of authority	Admin and user	
Grammar	/cgi-bin/hi3510/param.cgi?cmd=preset[&-act=&-status=&-number=]	
Parameters	act	Operation commands： goto：Adjust the preset position set：Set preset bit
	status	Preset bit operation command： 0：Clear 1：Save
	number	Preset bit serial number
Return	Success: include Success Error: contains Error	
Remarks	The number of preset positions varies from model to model	
Example	/cgi-bin/hi3510/param.cgi?cmd=preset&-act=goto&-number=1 /cgi-bin/hi3510/param.cgi?cmd=preset&-act=set&-status=1&-number=1	

param.cgi?cmd=getmotorattr

Function	Access Cloud Terrace Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getmotorattr]	
Parameters		
Return	panspeed	Horizontal speed 0：Fast 1：Medium 2：slowly

	tiltspeed	Vertical speed 0：Fast 1：Medium 2：slowly
	panscan	Horizontal cruising laps
	tiltscan	Vertical Cruising Laps
	movehome	Self-check centering on：Open off：Off
	ptzalarmmask	Turn off the alarm when the Cloud Station is in motion on：Open off：Off
	light_enable	
	alarmpresetindex	Alarm linkage preset position，（1-8）
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getmotorattr	

param.cgi?cmd=setmotorattr

Function	Setting cloud Station Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setmotorattr&-panspeed=&-tiltspeed=&-panscan=&-tiltscan=&-movehome=&-ptzalarmmask=&-alarmpresetindex=]	
Parameters	panspeed	Horizontal speed 0：Fast 1：Medium 2：slowly
	tiltspeed	Vertical speed 0：Fast 1：Medium 2：slowly
	panscan	Horizontal cruising laps
	tiltscan	Vertical Cruising Laps
	movehome	Self-check centering on：Open off：Off
	ptzalarmmask	Turn off the alarm when the Cloud Station is in

		motion on：Open off：Off
	alarmpresetindex	Alarm linkage preset position，（1-8）
Return	Success: include Success Error: contains Error	
Remarks	Horizontal speed and vertical speed values are the same, and the number of horizontal cruise laps is the same as the value of vertical cruise laps.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setmotorattr&-panspeed=1&-tiltspeed=1&-panscan=1&-tiltscan=1&-movehome=on&-ptzalarmmask=on&-alarmpresetindex=1	

param.cgi?cmd=getptzcomattr

Function	Access PTZ Parameters	
Limits of authority	Admin and user	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getptzcomattr]	
Parameters		
Return	protocal	Protocol Type： 0：PELCO-D 1：PELCO-P
	address	Address Code（0~255）
	baud	Baud rate
	databit	Data bits
	stopbit	Stop bit
	check	Calibration： 0：No 1：Odd Number Checking 2：Even number check 3：Marker 4：Space
	speed	Speed
Remarks	Some models have no secondary attributes， For details, please refer to Appendix I, Equipment Type Definition	
Example	/cgi-bin/hi3510/param.cgi?cmd=getptzcomattr	

param.cgi?cmd=setptzcomattr

Function	Set PTZParameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setptzcomattr&-protocal=&-address=&-baud=&-databit=&-stopbit=&-check=&-speed=]	
Parameters	protocal	Protocol Type： 0：PELCO-D 1：PELCO-P
	address	Address Code：0~255
	baud	Baud rate： 1200、2400、4800、9600、19200、38400、57600（One of them）
	databit	Data bits：7、8（One of them）
	stopbit	Stop bit：1、2（One of them）
	check	Calibration： 0：No 1：Odd Number Checking 2：Even number check
	Speed	Speed（1-63）
Return	Success: include Success Error: contains Error	
Remarks	Some models have no secondary attributes， For details, please refer to Appendix I, Equipment Type Definition	
Example	/cgi-bin/hi3510/param.cgi?cmd=setptzcomattr&-protocal=0&-address=1&-baud=9600&-databit=8&-stopbit=1&-check=0&-speed=31	

ptzup.cgi

Function	Control the Cloud Terrace to turn upwards (for PTZ control when browsing on cell phones)）
Limits of authority	Admin and user
Grammar	/cgi-bin/hi3510/ptzup.cgi
Parameters	
Return	Success: include Success Error: contains Error
Remarks	

Example	/cgi-bin/hi3510/ptzup.cgi

ptzdown.cgi

Function	Control the Cloud Terrace to turn downward (for PTZ control when browsing on cell phones)
Limits of authority	Admin and user
Grammar	/cgi-bin/hi3510/ptzdown.cgi
Parameters	
Return	Success: include Success Error: contains Error
Remarks	
Example	/cgi-bin/hi3510/ptzdown.cgi

ptzleft.cgi

Function	Control the Cloud Terrace to turn to the left (for PTZ control when browsing on cell phones)
Limits of authority	Admin and user
Grammar	/cgi-bin/hi3510/ptzleft.cgi
Parameters	
Return	Success: include Success Error: contains Error
Remarks	
Example	/cgi-bin/hi3510/ptzleft.cgi

ptzright.cgi

Function	Control the Cloud Terrace to turn to the right (for PTZ control when browsing on cell phones)
Limits of authority	Admin and user
Grammar	/cgi-bin/hi3510/ptzright.cgi
Parameters	
Return	Success: include Success Error: contains Error
Remarks	
Example	/cgi-bin/hi3510/ptzright.cgi

ptzzoomin.cgi

Function	Control the PTZ lens to pull closer (for PTZ control when browsing on cell phones)
Limits of authority	Admin and user
Grammar	/cgi-bin/hi3510/ptzzoomin.cgi
Parameters	
Return	Success: include Success Error: contains Error
Remarks	
Example	/cgi-bin/hi3510/ptzzoomin.cgi

ptzzoomout.cgi

Function	Control the PTZ lens to pull away (for PTZ control when browsing on cell phones)
Limits of authority	Admin and user
Grammar	/cgi-bin/hi3510/ptzzoomout.cgi
Parameters	
Return	Success: include Success Error: contains Error
Remarks	
Example	/cgi-bin/hi3510/ptzzoomout.cgi

7. Motion detection, I/O Alarm

param.cgi?cmd=getmdattr

Function	Access Motion detection configuration Parameters	
Limits of authority	admin	
Grammar	cgi-bin/hi3510/param.cgi[?cmd=getmdattr]	
Parameters		
Return	m1_enable	Motion detection configuration： 0：Off 1：Open

	m1_x	Area 1 horizontal coordinate
	m1_y	Area 1 vertical coordinate
	m1_w	Area 1 width
	m1_h	Area 1 height
	m1_sensitivity	Region 1 Sensitivity
	m1_threshold	Reserved field, not used
	m2_enable	Whether to enable the region two motion detection function： 0：Off 1：Open
	m2_x	Region 2 horizontal coordinates
	m2_y	Region 2 vertical coordinates
	m2_w	Region 2 width
	m2_h	Region 2 Height
	m2_sensitivity	Region 2 sensitivity
	m2_threshold	Reserved field, not used
	m3_enable	Whether to enable the regional three motion detection function： 0：Off 1：Open
	m3_x	Area 3 horizontal coordinates
	m3_y	Area 3 vertical coordinates
	m3_w	Region 3 width
	m3_h	Region 3 Height
	m3_sensitivity	Region 3 Sensitivity
	m3_threshold	Reserved field, not used
	m4_enable	Whether to enable the region four motion detection function： 0：Off 1：Open
	m4_x	Region 4 horizontal coordinates
	m4_y	Region 4 vertical coordinates
	m4_w	Region 4 Width
	m4_h	Region 4 Height
	m4_sensitivity	Region 4 Sensitivity
	m4_threshold	Reserved field, not used
Remarks	The area coordinatesand width and height are based on the device's	

	maximum:base.
Example	/cgi-bin/hi3510/param.cgi?cmd=getmdattr

param.cgi?cmd=setmdattr

Function	Configuring motion detection Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setmdattr&-enable=&-s=&-name=&-x=&-y=&-w=&-h=]	
Parameters	enable	Whether to enable the motion detection function： 0：Off 1：Open
	s	Sensitivity：Range[1 ~ 100]
	name	Alarm area：Range[1 ~ 4]
	x	Horizontal coordinates of the motion detection area
	y	Motion detection area vertical coordinate
	w	Width of motion detection area
	h	Height of motion detection area
Return	Success: include Success Error: contains Error	
Remarks	The area coordinatesand width and height are based on the device's maximum:base.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setmdattr&-enable=1&-s=50&-name=1&-x=0&-y=0&-w=60&-h=60	

param.cgi?cmd=getioattr

Function	Get external alarm input Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getioattr]	
Parameters		
Return	io_enable	Whether to enable external alarm input： 0：Off 1：Open
	io_flag	External alarm mode： 0：Off 1：Open

Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=getioattr

param.cgi?cmd=setioattr

Function	Set external alarm input Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setioattr &-io_enable=&-io_flag=]	
Parameters	io_enable	Whether to enable external alarm input： 0：Off 1：Open
	io_flag	External alarm mode： 0：Off 1：Open
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setioattr&-io_enable=1&-io_flag=0	

param.cgi?cmd=getmdalarm

Function	Get alarm linkage status information	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getmdalarm&-aname=]	
Parameters	aname	Option Name： email：E-mail Alarm emailsnap： E-mail Report an alarm and send a picture snap：Save pictures to SD card ftpsnap：Save images to FTP server record：Save video to SD card ftprec：Save video to FTP server relay：Relay Output
Return	md_email_switch	Whether to enable E-mail alarm function： on：Open off：Off
	md_emailsnap_switch	Whether to enable E-mail alarm and send picture

		function： on：Open off：Off
	md_snap_switch	Whether to enable saving pictures to SD card： on：Open off：Off
	md_ ftpsnap _switch	Whether to enable saving images to FTP server： on：Open off：Off
	md_record_switch	Whether to enable saving video to SD card： on：Open off：Off
	md_ftprec_switch	Whether to enable saving video to FTP server： on：Open off：Off
	md_relay_switch	Whether to enable relay output： on：Open off：Off
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getmdalarm&-aname=email&cmd=getmdalarm&-aname=emailsnap&cmd=getmdalarm&-aname=ftpsnap&cmd=getmdalarm&-aname=snap&cmd=getmdalarm&-aname=emailrec&cmd=getmdalarm&-aname=record&cmd=getmdalarm&-aname=ftprec&cmd=getmdalarm&-aname=relay	

param.cgi?cmd=setmdalarm

Function	Configure alarm linkage Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setmdalarm &-aname=&-switch=]	
Parameters	aname	Alarm linkage option name： email：E-mail Alarm emailsnap： E-mail Report an alarm and send a picture snap：Save pictures to SD card ftpsnap：Save images to FTP server record：Save video to SD card ftprec：Save video to FTP server

		relay：Relay Output
	switch	Alarm linkage option value： on：Open off：Off
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setmdalarm&-aname=email&-switch=off&cmd=setmdalarm&-aname=emailsnap&-switch=off&cmd=setmdalarm&-aname=ftprec&-switch=off&cmd=setmdalarm&-aname=snap&-switch=off&cmd=setmdalarm&-aname=ftpsnap&-switch=off&cmd=setmdalarm&-aname=record&-switch=off&cmd=setmdalarm&-aname=relay&-switch=off	

param.cgi?cmd=getrelayattr

Function	Get the relay output time when the alarm is linked	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getrelayattr]	
Parameters		
Return	time	Output time (in seconds)，As var time="10";
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getrelayattr	

param.cgi?cmd=setrelayattr

Function	Set relay output time for alarm linkage	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setrelayattr&-time=]	
Parameters	time	Output time (in seconds)，Range of values[5、10、20、30]
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setrelayattr&-time=10	

param.cgi?cmd=getalarmsnapattr

Function	Get the number of pictures captured	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getalarmsnapattr]	
Parameters		
Return	snap_count	Number of pictures taken
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getalarmsnapattr	

param.cgi?cmd=setalarmsnapattr

Function	Set the number of pictures to be captured	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setalarmsnapattr&-snap_count=]	
Parameters	snap_count	Number of pictures taken, Range of values[1、2、3]
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setalarmsnapattr&-snap_count=2	

param.cgi?cmd=getscheduleex

Function	Obtain the alarm deployment time and timing video recording time	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getscheduleex&-ename=]	
Parameters	ename	Option name md: alarm deployment plan: timed recording
Return	week0=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPP week1=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP	Week0: Sunday Week1: Monday Week2: Tuesday Week3: Wednesday Week4: Thursday Week5: Friday Week6: Saturday

	PPPPPP week3=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPP week4=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPP week5=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPP week6=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPP	P : On N : Off
Remarks	In parameters - week0 ~ - week6, each parameter has 48 characters, that is, the recording configuration string for 24 hours a day (24 hours a day will be subdivided into half an hour as a time period, and the characters P or n indicate whether to start recording, P indicates on, n indicates off). The time is calculated from zero to zero	
Example	/cgi-bin/hi3510/param.cgi?cmd=getscheduleex&-ename=md	

param.cgi?cmd=setscheduleex

Function	Set the alarm deployment time and timing video recording time	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setscheduleex&-ename=&-week0=&-week1=&-week2=&-week3=&-week4=&-week5=&-week6=]	
Parameters	ename	Option name md: alarm deployment plan: timed recording
	week0	Sunday: 24 hours will be subdivided into half an hour into a time period. The status of each time period is p or N, with a total of 48 bytes (P means on and N means off)

	week1 week2 week3 week4 week5 week6	Monday Tuesday Wednesday Thursday Friday Saturday
Return	Success: include Success Error: contains Error	
Remarks	In parameters - week0 ~ - week6, each parameter has 48 characters, that is, the recording configuration string for 24 hours a day (24 hours a day will be subdivided into half an hour as a time period, and the characters P or n indicate whether to start recording, P indicates on, n indicates off). The time is calculated from zero to zero	
Example	/cgi-bin/hi3510/param.cgi?cmd=setscheduleex&-ename=md&-week0=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP&-week1=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP&	

param.cgi?cmd=getplanrecattr

Function	Get scheduled recording parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getplanrecattr]	
Parameters		
Return	planrec_enable	Turn on recording 0: off 1: Open
	planrec_time	Video file length (of time): (15-900 seconds)
	planrec_chn	Video rate 11, 12, 13
	planrec_type	Video format, 0: avi, 1: 264
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getplanrecattr	

param.cgi?cmd=setplanrecattr

Function	Set scheduled recording parameters
Limits of authority	admin
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setplanrecattr&-planrec_enable=&-planrec_time&-planrec_chn]

Parameters	planrec_enable	Turn on/off recording 0: Off 1: On
	planrec_time	Video file length (of time): (15-900 seconds)
	planrec_chn	Video bit rate 11、12、13
Return	Success: include Success Error: contains Error	
Remarks	After the code rate is modified successfully, the device will restart automatically	
Example	/cgi-bin/hi3510/param.cgi?cmd=setplanrecattr&-planrec_enable=1&-planrec_time=30&-planrec_chn=12	

param.cgi?cmd=relayctrl

Function	Manually open or close the relay	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=relayctrl&-act=]	
	act	Enable relay function or Not: On: enabled Off: off
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=relayctrl&-act=on	

8、User Management

param.cgi?cmd=getuserattr

Function	Get all user information

Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getuserattr]	
Parameters		
Return	at_name	user name
	at_password	User password
Remarks	This command will return all user information, such as： var at_name0="admin"; var at_password0="admin"; var at_name1="user"; var at_password1="user"; var at_name2="guest"; var at_password2="guest";	
Example	/cgi-bin/hi3510/param.cgi?cmd=getuserattr	

param.cgi?cmd=setuserattr

Function	Configure user management Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setuserattr&-at_username=&-at_newname=&-at_password =]	
Parameters	at_username	Original user name, maximum number of characters is 16
	at_newname	New user name with a maximum of 16 characters
	at_password	Password Parameters, maximum number of characters is 16
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setuserattr&-at_username=admin&-at_newname=newname&-at_password=admin	

param.cgi?cmd=getsetupflag

Function	Access admin User Parameters
Limits of authority	admin
Grammar	/cgi-bin/hi3510/param.cgi?cmd=getsetupflag
Parameters	

Return	name0	User Name
	password0	Password
	authLevel0	Reserved Fields
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getsetupflag	

param.cgi?cmd=getstreamflag

Function	Access guest User Parameters	
Limits of authority	guest	
Grammar	/cgi-bin/hi3510/ param.cgi?cmd=getstreamflag	
Parameters		
Return	name2	User Name
	password2	Password
	authLevel2	Reserved Fields
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getstreamflag	

param.cgi?cmd=getptzflag

Function	Access user Parameters	
Limits of authority	user	
Grammar	/cgi-bin/hi3510/param.cgi?cmd=getptzflag	
Parameters		
Return	name1	User Name
	password1	Password
	authLevel1	Reserved Fields
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getptzflag	

param.cgi?cmd=getuserinfo

Function	Get login user information
Limits of authority	admin、user or guest
Grammar	/cgi-bin/hi3510/param.cgi?cmd=getuserinfo
Parameters	

Return	name	User name
	password	Password
	authLevel	Limits of authority 15：admin 3：user 1：guest
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getuserinfo	

9、Timed capture snapshot

param.cgi?cmd=getsnaptimerattrex

Function	Get Timed Capture Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getsnaptimerattrex]	
Parameters		
Return	as_snap_enable	Whether to enable timed capture to save pictures to SD card： 0：Off 1：Open
	as_snap_interval	Time interval, in seconds (range: 5~86400)
	as_email_enable	Whether to enable regular capture to send pictures to Email： 0：Off 1：Open
	as_email_interval	Time interval, in seconds (range: 5~86400)
	as_ftp_enable	Whether to enable regular capture to send pictures to FTP server： 0：Off 1：Open
	as_ftp_interval	Time interval, in seconds (range: 5~86400)
	as_cloud_enable	Whether to enable regular capture to send pictures to the cloud: Reserved field, not used 0：Off 1：Open

	var_cloud_interval	Time interval, in seconds (range: 5~86400)
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getsnaptimerattrex	

param.cgi?cmd=setsnaptimerattrex

Function	Set timed capture Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setsnaptimerattrex&-as_enable=&-as_interval=&-as_type=]	
Parameters	as_enable	Whether to open the timing capture： 0：Off 1：Open
	as_interval	Time interval, in seconds (range: 5~86400)
	as_type	Linkage Type snap: Save the image to the SD card. email: Send image to Email ftp: Send images to FTP server.
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setsnaptimerattrex&-as_enable=1&-as_interval=60&-as_type=snap	

10、FTP

param.cgi?cmd=getftpattr

Function	Access FTP Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getftpattr]	
Parameters		
Return	ft_server	FTP server address
	ft_port	Server port
	ft_username	Username
	ft_password	Password

	ft_dirname	Paths
	ft_mode	Passive mode. 0：Off 1：Open
	ft_autocreatedir	Automatic directory creation： 0：Off 1：Open
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getftpattr	

param.cgi?cmd=setftpattr

Function	Set FTP Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getftpattr&-ft_server=&-ft_port=&-ft_username=&-ft_password=&- ft_dirname =&-ft_mode=]	
Parameters	ft_server	FTP server address
	ft_port	Server port
	ft_username	User name
	ft_password	Password
	ft_dirname	Path
	ft_mode	Passive mode： 0：Off 1：Open
	ft_autocreatedir	Automatic directory creation： 0：Off 1：Open
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setftpattr&-ft_server=220.112.14.173&-ft_port=21&-ft_username=FTPUsername&-ft_password=FTPPassword&-ft_dirname =Program Files&-ft_mode=1	

param.cgi?cmd=testftp

Function	Test FTP

Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=testftp]	
Parameters		
Return	result	Type 0：Success -1：Unknown error -2：Unable to connect to server -3：User name or password error -4：Wrong path
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=testftp	

11、SMTP

param.cgi?cmd=getsmtpattr

Function	Get SMTP configuration Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getsmtpattr]	
Parameters		
Return	ma_server	SMTP server address
	ma_port	Server port
	ma_ssl	Secure connection type： 0：Off 1：SSL 2：TLS 3：STARTTLS
	ma_logintype	Authentication required or not： 1：Enable Authentication 3：Turn off authentication
	ma_username	User name
	ma_password	Password
	ma_from	Sending Address
	ma_to	Receiving Address
	ma_subject	Email subject
	ma_text	Message text

Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=getsmtpattr

param.cgi?cmd=setsmtpattr

Function	Set SMTP Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setsmtpattr&-ma_server=&-ma_port=&-ma_ssl=&-ma_logintype=&-ma_username=&-ma_password=&-ma_from=&-ma_to=&-ma_subject=&-ma_text=]	
Parameters	ma_server	SMTP server address
	ma_port	Server port
	ma_ssl	Secure connection type： 0：Off 1：SSL 2：TLS 3：STARTTLS
	ma_logintype	Authentication required or not： 1：Enable Authentication 3：Turn off authentication
	ma_username	User name
	ma_password	Password
	ma_from	Sending Address
	ma_to	Receiving Address
	ma_subject	Email subject
	ma_text	Message text
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setsmtpattr&-ma_server=stmp.sdf.com&-ma_from=sd1@sdf.com&-ma_to=a1@sdf.com&-ma_subject=demosubject&-ma_text=demotext&-ma_logintype=1&-ma_username=demo&-ma_password=123456&-ma_port=25&-ma_ssl=0	

param.cgi?cmd=testsmtp

Function	Test smtp	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=smtp]	
Parameters		
Return	result	Type 0：Success -1：Unknown error -2：ssl error -3：Unable to connect to server -4：User name or password error
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=testsmtp	

12. SD Card

param.cgi?cmd=sdfrmt

Function	Format SD card to FAT32 file system
Limits of authority	admin
Grammar	/cgi-bin/hi3510/param.cgi?cmd=sdfrmt
Parameters	
Return	Format SD Card Success
Remarks	Long waiting time
Example	/cgi-bin/hi3510/param.cgi?cmd=sdfrmt

param.cgi?cmd=sdstop

Function	Stop using the SD card
Limits of authority	admin
Grammar	/cgi-bin/hi3510/param.cgi?cmd= sdstop
Parameters	
Return	Stop SD Card Success
Remarks	Long waiting time
Example	/cgi-bin/hi3510/param.cgi?cmd=sdstop

13. Timed reboot

Param.cgi?cmd=gettimerreboot

Function	Timed reboot	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi? cmd=gettimerreboot	
Parameters	sr_enable	Wherther to turn on the timer reboot 0：Off、1：Open
	sr_day	Week: 0-6 (Sunday-Saturday), 7 every day
	sr_hour	Time: 0~23 hours
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi? cmd=gettimerreboot	

Param.cgi?cmd=settimerreboot

Function	Timed reboot	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi? cmd=settimerreboot	
Parameters	sr_enable	Whether to turn on the timer reboot 0：Off、1：Open
	sr_day	Week: 0-6 (Sunday-Saturday), 7 every day

	sr_hour	Time: 0~23 hours
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi? cmd=settimerreboot&-sr_enable=0	

14. Language setting

param.cgi?cmd=getlanguage

Function	Get language	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi? cmd=getlanguage	
Parameters	lancode	0：Chinese、1：English
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi? cmd=getlanguage	

Param.cgi?cmd=setlanguage

Function	Set language	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi? cmd=getlanguage	
Parameters	lancode	0：Chinese、1：English

Return	Success: include Success Error: contains Error
Remarks	
Example	/cgi-bin/hi3510/param.cgi? cmd=setlanguage&-language=0

15. Multi-way setting

param.cgi?cmd=getdevices

Function	Multi-way setting	
Limits of authority	Admin	
Grammar	/cgi-bin/hi3510/param.cgi? cmd=getdevices	
Parameters		
Return	d_host	Device address
	d_ailas	Device alias
	d_port	Device port
	d_username	Device name
	d_password	Device password
Remarks		
Example	/cgi-bin/hi3510/param.cgi? cmd=getdevices	

Param.cgi?cmd=setdevices

Function	Multi-way setting	
Limits of authority	Admin	
Grammar	/cgi-bin/hi3510/param.cgi? cmd=setdevices	
Parameters		
Return	d_host	Device address
	d_ailas	Device alias
	d_port	Device port
	d_username	Device name
	d_password	Device password

Remarks	
Example	cgi-bin/hi3510/param.cgi? cmd=setdevices&-d_number=2&-d_host=192.168.1.100

16. System Settings

param.cgi?cmd=getserverinfo

Function	Get device information	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getserverinfo]	
Parameters		
Return	model	Device Serial
	hardVersion	Hardware Version
	softVersion	Software Version
	webVersion	Web Version
	name	Device Name
	startdate	System start time
	upnpstatus	Upnp Status ok：Success off：Not enabled failed：Failed
	facddnsstatus	Manufacturer dynamic domain name status ok：Success off：Not enabled failed：Failed
	th3ddnsstatus	Third party dynamic domain name status ok：Success off：Not enabled failed：Failed
	platformstatus	Platform Status
	runtimes	Reserved Fields
	sdstatus	SD Card Status out: No SD card Ready: With SD card Readonly: SD card read-only
	sdfreespace	SD card remaining free space size in KB

	sdtotalspace	Total SD card capacity in KB
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getserverinfo	

param.cgi?cmd=getdevtype

Function	Get device type information	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getdevtype]	
Parameters		
Return	devtype	Device type
Remarks	Specific reference to Appendix I, Equipment Type Definition	
Example	/cgi-bin/hi3510/param.cgi?cmd=getdevtype	

param.cgi?cmd=getstreamnum

Function	Get the number of users for live video monitoring	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getstreamnum]	
Parameters		
Return	stream_num	Number of online users, e.g. var stream_num = "1" ;
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getstreamnum	

param.cgi?cmd=getservertime

Function	Get system time information	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getservertime]	
Parameters		
Return	time	Current date and time， [yyyy][mm][dd][hh][mm][ss] As: time="20110802182638";
	timeZone	Time Zone，As: timeZone="Asia/Hong_Kong";
	dstmode	Whether to enable daylight saving time automatic time adjustment：

		on：Open off：Off
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getservertime	

param.cgi?cmd=setservertime

Function	Setting the system time	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setservertime&-time=&-timezone=&-dstmode=]	
Parameters	stime	Current date and time [yyyy].[mm].[dd].[hh].[mm].[ss] For example：2011.08.23.10.35.08
	timezone	Time Zone：As:timeZone="Asia/Hong_Kong"； Note: For specific field values for time zones, please refer to Appendix II, Time Zone Table。
	dstmode	Whether to enable daylight saving time automatic time adjustment： on：Open off：Off
Return	Success: include Success Error: contains Error	
Remarks	Daylight Saving Time automatic time adjustment is not available in all time zones.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setservertime&-time=2011.08.23.10.35.08&-timezone=Asia%2FHong_Kong&-dstmode=off	

param.cgi?cmd=getntpattr

Function	Access NTP Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getntpattr]	
Parameters		
Return	ntpenable	Whether to enable NTP： 1：Open 0：Off

	ntpserver	NTP server: (one of the following) time.nist.gov time.kriss.re.kr time.windows.com time.nuri.net
	ntpinterval	Synchronization interval
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getntpattr	

param.cgi?cmd=setntpattr

Function	Setting NTP Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setntpattr&-ntpenable=&-ntpserver=&-ntpinterval=]	
Parameters	ntpenable	Whether to enable NTP： 1：Open 0：Off
	ntpserver	NTP sever:(one of the following is recommended) time.nist.gov time.kriss.re.kr time.windows.com time.nuri.net
	ntpinterval	Sync interval: Range [1 ~ 24 hours]
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setntpattr&-ntpenable=1&-ntpinterval=2&-ntpserver=time.nuri.net	

param.cgi?cmd=getcapability

Function	Access to equipment capabilities Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=getcapability]	
Parameters		
Return	cap_cvbs	Whether CVBS is enabled.

		on：Open off：Off
	cap_sd	SD card enabled or not. on：Open off：Off
	cap_usb	Whether to enable USB： on：Open off：Off
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getcapability	

param.cgi?cmd=setcapability

Function	Configure device capabilities Parameters	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=setcapability&-cap_cvbs=&-cap_sd=&-cap_usb=]	
Parameters	cap_cvbs	Whether CVBS is enabled. on：Open off：Off
	cap_sd	SD card enabled or not. on：Open off：Off
	cap_usb	Whether to enable USB： on：Open off：Off
Return	Success: include Success Error: contains Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setcapability&-cap_cvbs=off&-cap_sd=on&-cap_usb=on	

web/tmpfs/snap.jpg

Function	IE Lower capture image
Limits of authority	admin、userandguest
Grammar	/web/tmpfs/snap.jpg

Parameters	
Return	snap.jpg
Remarks	
Example	/web/tmpfs/snap.jpg

Sysreset.cgi

Function	Restore system to factory settings
Limits of authority	admin
Grammar	/cgi-bin/hi3510/sysreset.cgi
Parameters	
Return	Success: include Success Error: contains Error
Remarks	
Example	/cgi-bin/hi3510/sysreset.cgi

Sysreboot.cgi

Function	Rebooting the system
Limits of authority	admin
Grammar	/cgi-bin/hi3510/sysreboot.cgi
Parameters	
Return	Success: include Success Error: contains Error
Remarks	
Example	/cgi-bin/hi3510/sysreboot.cgi

backup.cgi

Function	Backing up configuration data
Limits of authority	admin
Grammar	/cgi-bin/hi3510/backup.cgi
Parameters	
Return	config_backup.bin
Remarks	
Example	/cgi-bin/hi3510/backup.cgi

restore.cgi

Function	Restore system settings	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/restore.cgi[?-setting_file=]	
Parameters	setting_file	System configuration file path
Return		
Remarks	This cgi must use the post method to package the previously backed up Parameters configuration file to the ip camera.	
Example	<form name="form6" method="post" enctype="multipart/form-data" action="cgi-bin/hi3510/restore.cgi" > <input type="file" name="setting_file" > <input type="submit" value="restore" > </form>	

upgrade.cgi

Function	System upgrade (dangerous, use with caution)	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/upgrade.cgi[?-filename=]	
Parameters	filename	Upgrade file name
Return		
Remarks	This cgi must use the post method to package the upgrade file and send it to ip camera.	
Example	<form name="form5" method="post" target="retframe" enctype="multipart/form-data" action="cgi-bin/hi3510/upgrade.cgi" > <input type="file" name="setting_file" > <input type="submit" value="upgrade" > </form>	

17. Logs

param.cgi?cmd=logsync

Function	Get log information
Limits of authority	admin

Grammar	/cgi-bin/hi3510/param.cgi[?cmd=logsync]
Parameters	
Return	
Remarks	This CGI is refreshing the log information. After execution, get the log content by accessing /log/syslog.txt Note: The log is automatically cleared when the device is rebooted
Example	/cgi-bin/hi3510/param.cgi?cmd=logsync /log/syslog.txt

param.cgi?cmd=cleanlog

Function	Clear log information	
Limits of authority	admin	
Grammar	/cgi-bin/hi3510/param.cgi[?cmd=cleanlog&-name=]	
Parameters	name	Clear log command name. access：Log name
Return	Success: include Success Error: contains Error	
Remarks	When there are too many logs, you can use this CGI to clear the log messages.	
Example	/cgi-bin/hi3510/param.cgi?cmd=cleanlog&-name=sys	

18. Appendix

Appendix I, Equipment Type Definition

1. Equipment type

Used to identify the type of device, with different functions for different devices.

ACSII code, 32 bytes in length。

Each field is 2 bytes long. The first byte represents the total field type and the second field represents the field subtype.

Field 3	Field 4
Footage	Cloud Platform Type
‘S’	‘Z’

3). Lens field ‘S’

As follows：

‘e’	CMOS 720P	Brightness (0-100), full and degree (0-255), contrast (0-100), chroma (0-100), sharpness (0-100), shutter (0-65535), flip up and down, mirror left and right, wide dynamic, night vision mode. First code stream: 720P, Q720P Second code stream: Q720P, QQ720P Third code stream: QQ720P Cell phone picture size: Q720P, QQ720P.
‘f’	CMOS 720P CMOS 960P	Brightness (0-100), satiation (0-255), contrast (0-100), chroma (0-100), sharpness (0-100), shutter (0-65535), up and down flip, left and right mirror, wide dynamic, night vision mode. 720P (First code stream: 720P Second code stream: Q720P, QQ720P Third code stream: QQ720P Phone picture size: Q720P, QQ720P.) 960P (First code stream: 960P Second code stream: VGA, QVGA Third code stream: QVGA Phone picture size: VGA, QVGA.)
‘g’	CMOS 1080P CMOS 720P	Brightness (0-100), satiation (0-255), contrast (0-100), chroma (0-100), sharpness (0-100), shutter (0-65535), up and down flip, left and right mirror, wide dynamic, night vision mode. 1080P (first code stream: 1080P second code stream: Q720P, QQ720P third code stream: QQ720P phone picture size: Q720P, QQ720P.) 720P (first code stream: 720P second code stream: Q720P, QQ720P third code stream: QQ720P phone picture size: Q720P, QQ720P.)
‘h’	CMOS 720P WDR	Brightness(0-6), Fullness(0-6), Contrast(0-8), Chroma(0-255), Sharpness(0-4), Shutter(0-3), Wide Dynamic, Night Vision Mode. First code stream: 720P, Q720P Second code stream: Q720P, QQ720P Third code stream: QQ720P Cell phone picture size: Q720P, QQ720P.
i	CMOS 1080P CMOS 720P	Brightness (0-100), Saturation (0-255), Contrast (0-100), Chroma (0-100), Sharpness (0-100), Shutter (0-65535), Flip up and down, Mirror left and right, Wide Dynamic, Night vision mode. 1080P (first code stream: 1080P second code stream: Q720P, QQ720P third code stream: QQ720P phone picture size: Q720P, QQ720P.) 720P (first code stream: 720P second code stream: Q720P, QQ720P third code stream: QQ720P phone picture size: Q720P, QQ720P.)
j	CMOS 1080P	Brightness (0-100), satiation (0-255), contrast (0-100),

	CMOS 720P	chroma (0-100), sharpness (0-100), shutter (0-65535), up and down flip, left and right mirror, wide dynamic, night vision mode. 1080P (first code stream: 1080P second code stream: Q720P, QQ720P third code stream: QQ720P phone picture size: Q720P, QQ720P.) 720P (first code stream: 720P second code stream: Q720P, QQ720P third code stream: QQ720P phone picture size: Q720P, QQ720P.)
k	D1	Brightness (0-100), satiation (0-255), contrast (0-100), chroma (0-100), sharpness (0-100), shutter (0-65535), up and down flip, left and right mirror, night vision mode. First code stream: D1, CIF Second code stream: CIF Third code stream: CIF Cell phone picture size: D1.
SO	CMOS 5M	Brightness(0-100), Saturation(0-255), Contrast(0-100), Chroma(0-100), Sharpness(0-100), Shutter(0-65535), Flip up and down, Mirror left and right, Night vision mode. The first code stream: 2560*1920, the second code stream: 800*600.

4). Cloud Station Fields 'Z'

As follows：

'0'	Customized Cloud Station	Up, down, left, right, up and down cruise, left and right cruise, back to the center position, preset call (up to 8) No support for serial port setting, no support for head speed
'3'	485 Cloud Station	Up, down, left, right, draw close, draw far, preset call settings. You can set 485 port properties.

Appendix II, Time Zone Table

Time Zone Field	Description
Etc/GMT-12	(GMT-12:00) Dateline West
Pacific/Apia	(GMT-11:00) Midway Atoll，Samoa Islands
Pacific/Honolulu	(GMT-10:00) Hawaii
America/Anchorage	(GMT-09:00) Alaska
America/Los_Angeles	(GMT-08:00) Pacific Time（America/Canada）
America/Denver	(GMT-07:00) Mountain Time（America/Canada）
America/Tegucigalpa	(GMT-07:00) Chihuahua，La Paz，Mazatlan
America/Phoenix	(GMT-07:00) Arizona
America/Winnipeg	(GMT-06:00) Saskatchewan
America/Mexico_City	(GMT-06:00) Guadalajara，Mexico City，Monterrey

America/Chicago	(GMT-06:00) Central time (America/Canada)
America/Costa_Rica	(GMT-06:00) Central America
America/Indianapolis	(GMT-05:00) Indiana (Eastern)
America/New_York	(GMT-05:00) Eastern Time (America/Canada)
America/Bogota	(GMT-05:00) Bogota，Lima，Rio Branco
America/Santiago	(GMT-04:00) Santiago de Chile
America/Caracas	(GMT-04:00) La Paz
America/Montreal	(GMT-04:00) Atlantic Time (Canada)
America/St_Johns	(GMT-03:30) Newfoundland and Labrador
America/Thule	(GMT-03:00) Greenland
America/Buenos_Aires	(GMT-03:00) Buenos Aires，Georgetown
America/Sao_Paulo	(GMT-03:00) :Brasilia
Atlantic/South_Georgia	(GMT-02:00) Mid-Atlantic
Atlantic/Cape_Verde	(GMT-01:00) Cape Verde Islands
Atlantic/Azores	(GMT-01:00) Azores
Europe/Dublin	(GMT) Greenwich Mean Time： Dublin， The Towns of Edinburgh，London，Lisbon
Africa/Casablanca	(GMT) Casablanca，Monrovia，Reykjavík
Europe/Amsterdam	(GMT+01:00) Amsterdam，Berlin，Bern，Rome，Stockholm，Wien
Europe/Belgrade	(GMT+01:00) Београд，Bratislava，Budapest，Ljubljana，Prague
Europe/Brussels	(GMT+01:00) Brussels，Copenhagen，Madrid，Paris
Europe/Warsaw	(GMT+01:00) Sarajevo，Skopje，Warsaw，Zagreb
Africa/Lagos	(GMT+01:00) Central West Africa
Europe/Athens	(GMT+02:00) Athens，Istanbul，Minsk
Europe/Bucharest	(GMT+02:00) Bucharest
Africa/Cairo	(GMT+02:00) Cairo
Africa/Harare	(GMT+02:00) Harare，Pretoria
Europe/Helsinki	(GMT+02:00) Helsinki，Kyiv，Riga，Sofia，Tallinn，Wilna
Asia/Jerusalem	(GMT+02:00) Jerusalem
Asia/Baghdad	(GMT+03:00) Baghdad
Asia/Kuwait	(GMT+03:00) The State of Kuwait，Riyadh
Europe/Moscow	(GMT+03:00) Moscow，Saint Petersburg，Volgograd
Africa/Nairobi	(GMT+03:00) NAIROBI
Asia/Tehran	(GMT+03:30) Teheran
Asia/Dubai	(GMT+04:00) Abu Dhabi，Muscat
Asia/Baku	(GMT+04:00) Baku，T'bilisi，Yerevan
Asia/Kabul	(GMT+04:30) Kabul
Asia/Yekaterinburg	(GMT+05:00) Yekaterinburg
Asia/Karachi	(GMT+05:00) ISLAMABAD，Karachi，Toshkent viloyati
Asia/Calcutta	(GMT+05:30) Madras，Kolkata，Mumbai，NEW DELHI
Asia/Katmandu	(GMT+05:45) Kathmandu

Asia/Almaty	(GMT+06:00) Алматы, Новосибирск
Asia/Dhaka	(GMT+06:00) Nur Sultan，Dhaka
Asia/Colombo	(GMT+06:00) Colombo
Asia/Rangoon	(GMT+06:30) Yangon
Asia/Bangkok	(GMT+07:00) Bangkok，Thành phố Hà Nộ，Jakarta
Asia/Krasnoyarsk	(GMT+07:00) Красноярск
Asia/Hong_Kong	(GMT+08:00) Beijing，Chongqing，Hongkong，Urumqi County
Asia/Irkutsk	(GMT+08:00) Иркутск，Ulaanbaatar
Asia/Kuala_Lumpur	(GMT+08:00) Kuala Lumpur，Singapore
Australia/Perth	(GMT+08:00) Perth
Asia/Taipei	(GMT+08:00) Taibei
Asia/Tokyo	(GMT+09:00) Osaka，Sapporo，Tokyo
Asia/Seoul	(GMT+09:00) Seoul
Asia/Yakutsk	(GMT+09:00) Yakutsk
Australia/Adelaide	(GMT+09:30) Adelaide
Australia/Brisbane	(GMT+10:00) Brisbane
Australia/Sydney	(GMT+10:00) Canberra，Melbourne，Sydney
Pacific/Guam	(GMT+10:00) Guam，Port Moresby
Australia/Hobart	(GMT+10:00) Hobart
Asia/Vladivostok	(GMT+10:00) Vladivostok
Asia/Magadan	(GMT+11:00) Magadis，SolomonIslands，New Caledonia
Pacific/Auckland	(GMT+12:00) Auckland，Wellington
Pacific/Fiji	(GMT+12:00) Fiji，Kamchatka Peninsula，Marshall Islands
Pacific/Tongatapu	(GMT+13:00) Nukualofa

19. Intelligent Humanoid Detection

param.cgi?cmd=getsmdattr

Function	Get intelligent human shape recognition
Limits of authority	admin
Grammar	

Return	smd_enable	0-Off, 1-Open
Example	/cgi-bin/hi3510/param.cgi?cmd=getsmdattr	

param.cgi?cmd=setsmdattr

Function	Set up smart humanoid recognition	
Limits of authority	admin	
Grammar		
Return	smd_enable	0-Off, 1-Open
Example	/cgi-bin/hi3510/param.cgi?cmd=setsmdattr&-smd_enable=1	

param.cgi?cmd= getsmdex

Function	Get framed humanoid	
Limits of authority	admin	
Grammar		
Return	smd_rect	0-Off, 1-Open
Example	/cgi-bin/hi3510/param.cgi?cmd=getsmdex	

param.cgi?cmd= setsmdex

Function	Set framed humanoid	
Limits of authority	admin	
Grammar		
Return	smd_rect	0-Off, 1-Open
Example	/cgi-bin/hi3510/param.cgi?cmd=setsmdex&-smd_rect=1	

param.cgi?cmd= getmdalarm

Function	Get alarm trigger	
Limits of authority	admin	
Grammar		
Return	md_alarm_type	Off - separate trigger, on - linkage trigger
Example	/cgi-bin/hi3510/param.cgi?cmd=getmdalarm&-aname=type	

param.cgi?cmd= setmdalarm

Function	Set alarm trigger	
Limits of authority	admin	
Grammar		
Return	md_alarm_type	Off - separate trigger, on - linkage trigger
Example	/cgi-bin/hi3510/param.cgi?cmd=setmdalarm&-aname=type&-switch=on/off	