

TOPODOME CAMERA

CGI

Application Guide



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Version Update Description

edition	author	Modify the time	revise content
1.0	Himmy Ho	2011-07-30	The 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=s etimageattr Add a description of the 53xmk model 2. Add the request I frame param.cgi?cmd=requestifrm
1.3	Franck Zhao	2012-08-01	1. param.cgi?cmd=chkwirelessattr The configuration detection wireless parameters are added 2. param.cgi?cmd=getchkwireless Acquisition detection WIFI results were added
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 Note: Add 5M resolution primary and secondary stream, intelligent humanoid recognition
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IP Camera CGI profile

The cgi listed in this article is a set of http protocol-based interfaces from ip camera, and client programs (either web pages running on a web browser or other applications) can operate on the device through cgi.

- Security authentication for cgi: The cgi listed below require security authentication when access. And different cgi interfaces require different permissions, including three levels: visitors, operators, and managers. Permissions are determined by the user set on the device. The specific security authentication mechanism supports two ways: the Basic security authentication mechanism specified in the http protocol, and the attaching of the user name and password directly to the cgi parameters.
- How to access the cgi: In all http methods, the cgi listed in this article only support **get** and **post**, where **upgrade.cgi** and the **restore.cgi** only supports the post method.

Get example:

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

</form>

Post example:

```
<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>
```

- Return of cgi: Depending on the return information returned, the cgi listed in this article are

divided into two categories:

- ✓ The cgi for getting the device status and parameters.
 - If successful, return text including the device status or parameter in a format similar to the variable definition in javascript, defining each state or parameter as a variable and returns, 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 fetching fails, an error message will be returned, such as: " [Error] Get video attribution error! Errcode is 0xa10e6008".
- ✓ The cgi for setting device parameters. This kind of cgi will return text information containing the results of the operation, "HTTP / 1.0 200 OK" will return if successfully, and specific error information will return if fail, such as " [Error] [Data-Length: 91] unrecongized or incomplete command line." Means that the parameters included with cgi are wrong.
- ✓ The cgi commands can be tested by input directly in the browser as follows:

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

You can also directly attach the user name and the password of camera:

<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>

Chapter 1: Video and Audio

Param.cgi?cmd=getaudioalarmattr

function	audible alarm	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi?cmd=getaudioalarmattr	
parameter	not have	
return	var aa_enable	0: Off, 1: On
	var aa_value	volume
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getaudioalarmattr	

param.cgi?cmd=getvideoattr

function	Obtain the device video attributes, the first, second, and three-code stream resolution, video format, and video encoding.	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=getvideoattr]	
parameter	not have	
return	videomode	31: 720P_Q720P_QQ720P 32: 720P_Q Q720P_QQ720P 33: Q 720P_Q720P_QQ720P 34: Q 720P_Q Q720P_QQ720P 35: 720P_D1_CIF 36: 720P_CIF_CIF 41: 1080P_Q720P_QQ720P 42: 1080P_Q Q720P_QQ720P 45: 1080P_D1_CIF 46: 1080P_CIF_CIF 51: 960P_VGA_QVGA 52: 960P_Q VGA_Q VGA 53:VGA_VGA_QVGA 54: VGA_Q VGA_Q VGA 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: mainprofile
	var maxchn	Maximum channel number of the stream
	wdr=0	0: Linear 1: Wide dynamic
remarks	pay attention to: The 720P resolution is 1280x720 The Q720P resolution is 640x352 The QQ720P resolution is 320x176	

	The 960P resolution is 1280x960 The VGA resolution is 640x480 The QVGA resolution is 320x240 The 1080P resolution is 1920x1080 The D1 resolution is 704x576 The CIF resolution is 352x288 The 5M resolution is 2560x1920 600P resolution, 800x600 pay attention to: 720P_Q720P_QQ720P: The first stream resolution is 720P, the second stream resolution is Q720P, and the third stream resolution is QQ720P
instance	/cgi-bin/hi3510/param.cgi ?cmd=getvideoattr

param.cgi?cmd=setvideoattr

function	Set the device video properties	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setvideoattr&-vinorm=&-profile=&-videomode=]	
parameter	vinorm	P: 50Hz(PAL) N: 60Hz(NTSC)
	profile	0: baseline 1: mainprofile
	videomode	31: 720P_Q720P_QQ720P 32: 720P_Q Q720P_QQ720P 33: Q 720P_Q720P_QQ720P 34: Q 720P_Q Q720P_QQ720P 35: 720P_D1_CIF 36: 720P_CIF_CIF 41: 1080P_Q720P_QQ720P 42: 1080P_Q Q720P_QQ720P 45: 1080P_D1_CIF 46: 1080P_CIF_CIF 51: 960P_VGA_QVGA 52: 960P_Q VGA_Q VGA 53: VGA_VGA_QVGA 54: VGA_Q VGA_Q VGA 55: 960P_D1_CIF

		56: 960P_CIF_CIF 17: D1_CIF_CIF 20: CIF_CIF_CIF 101:5M_600P
return	wdr=0	0: Linear 1: Wide dynamic
	Success: "Success" Failed: included "Error" pay attention to: The 720P resolution is 1280x720 The Q720P resolution is 640x352 The QQ720P resolution is 320x176 The 960P resolution is 1280x960 The VGA resolution is 640x480 The QVGA resolution is 320x240 The 1080P resolution is 1920x1080 The D1 resolution is 704x576 The CIF resolution is 352x288 The 5M resolution is 2560x1920 600P resolution, 800x600 pay attention to: 720P_Q720P_QQ720P: The first stream resolution is 720P, the second stream resolution is Q720P, and the third stream resolution is QQ720P pay attention to: The return time is longer	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setvideoattr&-vinorm=N&-profile=1&-video mode=32&-wdr=1	

param.cgi?cmd=getfisheyeattr

function	Obtain the fish eye parameters
authority	admin
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getfisheyeattr]

parameter	not have	
return	fisheye_flag	0-Off, 1-On
	fisheye_mode	0-Lift, 1-wall mounting
	fisheye_lens	0、 gc2033+K119 1、 h65+H106A 2、 imx323+K104 3、 sc4236+H103A
	fisheye_xcircle	X coordinates of Circle Center
	fisheye_ycircle	Y coordinates of Circle Center
	fisheye_rcircle	radius of a circle
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getfisheyeattr	

param.cgi?cmd=setfisheyeattr

function	Set the fish eye parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setfisheyeattr]	
parameter	not have	
return	fisheye_flag	0-Off, 1-On
	fisheye_mode	0-Lift, 1-wall mounting
	fisheye_lens	4、 gc2033+K119 5、 h65+H106A 6、 imx323+K104 7、 sc4236+H103A
	fisheye_xcircle	X coordinates of Circle Center
	fisheye_ycircle	Y coordinates of Circle Center
	fisheye_rcircle	radius of a circle
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setfisheyeattr&-fisheye_flag=1&-fisheye_mode=0&-fisheye_lens=0	

param.cgi?cmd=getvencattr

function	Obtain the device video encoding parameters
----------	---

authority	admin, user, and guest	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getvencattr&-chn=]	
parameter	chn	Stream number: 11: The first stream 12: The second stream 13: The third stream
return	Either bps_1, bps_2, or bps_3	code rate
	Either fps_1, fps_2, or fps_3	frame rate
	For gop_1, gop_2, or gop_3	Master frame interval
	brmode_1, brmode_2, or brmode_3	Video encoding control: 0: Fixed code rate 1: Variable code rate
	imagegrade_1, imagegrade_2, imagegrade_3	Video coding quality
	Either width_1, width_2, or width_3	Video width
	height_1, height_2, or height_3	Video height
remarks	Note: suffix "_1" is first stream parameter ; suffix "_2" is second stream; suffix "_3" is third stream .	
instance	/cgi-bin/hi3510/param.cgi?cmd=getvencattr&-chn=11	

param.cgi?cmd=setvencattr

function	Configure the equipment video encoding parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setvencattr&-chn=&-bps=&-fps=&-brmode=&-imagegrade=&-gop=]	
parameter	chn	number of channel: 11: The first stream 12: The second stream 13: Third stream
	bps	code rate: 720P: Range [32 ~ 6144 kbps] 1080P: Range [32 ~ 8192 kbps] D1: Range [32 ~ 2,048 k b p s]

		CIF: Range [32 ~ 512 kbps] QCIF: Range [32-256 k b p s] VGA: range [32 ~ 2,048 k b p s] QVGA: Range [32 ~ 512 kbps] QQVGA: Range [32 ~ 256 kbps] 5M (2560 * 1920): Scope [32-6144 kbps] 600P (800 * 600): Range [32-2048 kbps]
	fps	frame rate: PAL system: range [1 ~ 25] NTSC standard: range [1 ~ 30]
	brmode	Video encoding control: 0: Fixed code rate 1: Variable code rate
	imagegrade	Video encoding quality: range [1 ~ 6] Note: The smaller the value, the better the image quality, the greater the control range of stream.
	gop	Main frame interval: range [2 ~ 150]
return	Success: contains "Success" Failed: contains "Error"	
remarks	not have	
instance	/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	Obtain image parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getimageattr]	
parameter	not have	
return	brightness	the quality of being luminous; emitting or reflecting light
	saturation	the process of totally saturating something with a substance
	contrast	the perceptual effect of the juxtaposition of very different colors

	sharpness	thinness of edge or fineness of point
	hue	a colour or a particular shade of a colour
	targety	Exposure
	gamma	Gamma
	flip	Image Flip: on: enable off: disable
	mirror	Image mirror: on: enable off: disable
	night	Night vision mode: on: enable off: disable
	shutter	shutter
	wdr	Wide Dynamic: on: enable off: disable
	noise	Denoising strength (0-100, working under low illumination)
	gc	Gain, value range [0-4294967295]
	aemode	Exposure mode, take the value range [0-2] 0: automatic, 1: indoor, 2: outdoor.
	imgmode	Image priority mode 0: Frame rate is preferred 1: illuminance is preferred
	display_mode	The current display model: 0: Black and white mode 1: Color mode
remarks	Different devices, different image parameters, specifically refer to <i>Appendix I device type definition</i>	
instance	/cgi-bin/hi3510/param.cgi?cmd=getimageattr	

param.cgi?cmd=setimageattr

function	Set image parameters
authority	admin
grammar	/cgi-bin/hi3510/param.cgi?cmd=setimageattr&-image_type=&-brightness=&-

	saturation=&-contrast=&-hue=&-targety=&-gamma=&-flip=&-mirror=&-noise=&-aemode=&-imgmode=]	
parameter	brightness	the quality of being luminous; emitting or reflecting light
	saturation	the process of totally saturating something with a substance
	contrast	the perceptual effect of the juxtaposition of very different colors
	sharpness	thinness of edge or fineness of point
	hue	a colour or a particular shade of a colour
	targety	Exposure
	gamma	Gamma
	flip	Image Flip: on: enable off: disable
	mirror	Image mirror: on: enable off: disable
	night	Night vision mode: on: enable off: disable
	shutter	shutter
	wdr	Wide Dynamic: on: enable off: disable
	noise	Denoising strength (0-100, working under low illumination)
	gc	Gain, value range [0-4294967295]
	aemode	Exposure mode, take the value range [0-2] 0: automatic, 1: indoor, 2: outdoor.
	imgmode	Image priority mode 0: Frame rate is preferred 1: illuminance is preferred
	display_mode	The current display model: 0: Black and white mode 1: Color mode
return	Success: contains "Success" Error: contains "Error"	

remarks	Different equipment parameters are not identical, specifically refer to <i>Appendix I equipment type definition</i> Image parameter settings must take effect in current mode, otherwise the settings is invalid.
give an 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 the lens distortion value	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=getldcattr]	
parameter	not have	
return	ldc_ratio	The distortion value is [0-511]
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getldcattr	

param.cgi?cmd=setldcattr

function	Set the lens distortion value	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setldcattr&-ldc_ratio =]	
parameter	ldc_ratio	The distortion value is [0-511]
return	Success: contains "Success" Error: contains "Error"	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setldcattr&- ldc_ratio=1	

param.cgi?cmd=getircutattr

function	Gets the IRCut switch threshold value	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getircutattr]	
parameter	not have	
return	saradc_switch_value	IRCUT Switching Cutoff Value [1-1024]
remarks	not have	

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

param.cgi?cmd=setircutattr

function	Set the IRCut switch threshold value	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setircutattr&-saradc_switch_value =]	
parameter	saradc_switch_value	IRCut Switching Cutoff Value [1-1024]
return	Success: contains "Success" Error: contains "Error"	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setircutattr&-saradc_switch_value=700	

param.cgi?cmd=getoverlayattr

function	Gets the OSD parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getoverlayattr&-region=]	
parameter	region	region 0: The OSD time area 1: The OSD Name Area
return	x_[region]	x coordinates of the OSD region
	y_[region]	y coordinates of the OSD region
	w_[region]	Width of OSD area
	h_[region]	Height of OSD region
	show_[region]	OSD display or not 0: Hidden 1: Show
	place_[region]	0: Top 1: Bottom
	name_[region]	OSD name
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getoverlayattr &-region=0	

param.cgi?cmd=setoverlayattr

function	Set the OSD parameter
----------	-----------------------

authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setoverlayattr&-region=&-show=&-name=&-place=]	
parameter	region	region 0: The OSD time area 1: The OSD Name Area
	show	The OSD name display or not 0: Hidden 1: Show
	place	0: Top 1: Bottom
	name	OSD name, supported in English only. The character length must not exceed 16
return	Success: contains “Success” Error: contains “Error”	
remarks	Note: Setting the name parameter is not supported in the Time OSD	
instance	/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 the mobile phone picture parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getmobilesnapattr]	
parameter	not have	
return	msize	1: Maximum resolution of the second stream 2: Minimum resolution of the second stream
remarks	Some devices do not support attribute modification, and refer to <i>Appendix I device type definition in detail</i>	
instance	/cgi-bin/hi3510/param.cgi?cmd=getmobilesnapattr	

param.cgi?cmd=setmobilesnapattr

function	Set the mobile phone picture parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setmobilesnapattr&-msize=]	

parameter	msize	1: Maximum resolution of the second stream 2: Minimum resolution of the second stream
return	Success: contains "Success" Error: contains "Error"	
remarks	Some devices do not support attribute modification, and refer to <i>Appendix I device type definition in detail</i>	
instance	/cgi-bin/hi3510/param.cgi?cmd=setmobilesnapattr&-msize=1	

param.cgi?cmd=getaencattr

function	Gets the audio encoding parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getaencattr&-chn=]	
parameter	chn	number of channel: 11: The first stream 12: The second stream 13: Third stream
return	aeswitch_1, aeswitch_2, or aeswitch_3	If turn on the audio encoding 0: disable 1: enable
	aeformat_1, aeformat_2, or aeformat_3	Audio encoding format g711a: G711A, code rate of 64Kbps g726: G726, code rate of 16Kbps
remarks	_1 For the first stream, _2 is the second stream and _3 is the third stream. Audio has a sampling rate of 8K, mono, and is 16-bit .	
instance	/cgi-bin/hi3510/param.cgi?cmd=getaencattr&-chn=11	

param.cgi?cmd=setaencattr

function	Set the audio encoding parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setaencattr&-chn=]	
parameter	chn	number of channel: 11: The first stream 12: The second stream 13: Third stream
	aeswitch	If turn on the audio encoding 0: disable

		1: enable
	aeformat	Audio encoding format g 711a: G711a , code rate of 64Kbps g726: G726 , code rate of 16Kbps
return	Success: contains “ Success” Error: contains “Error”	
remarks	Audio has a sampling rate of 8K, mono, and is 16-bit .	
instance	/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 the input audio volume	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getaudioinvolume]	
parameter	not have	
return	Volume	Volume range is [1-100]
	aec	Echo offset, 0: off, 1: on
	denoise	denoise
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getaudioinvolume	

param.cgi?cmd=setaudioinvolume

function	Set the input audio volume	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setaudioinvolume&-volume=]	
parameter	volume	Volume range is [1-100]
return	Success: contains “ Success”	
	Error: contains “Error”	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setaudioinvolume&-volume=80	

param.cgi?cmd=getaudiooutvolume

function	Get the output audio volume
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authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getaudiooutvolume]	
parameter	not have	
return	ao_volume	Volume range is [1-100]
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getaudiooutvolume	

param.cgi?cmd=setaudiooutvolume

function	Set the output audio volume	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setaudiooutvolume&-volume=]	
parameter	volume	Volume range is [1-100]
return	Success: contains “ Success” Error: contains “Error”	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setaudiooutvolume&-volume=80	

param.cgi?cmd=getaudioinvolume

function	Gets the input type	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getaudioinvolume]	
parameter	not have	
return	volin_type	0: Linear input 1: Mic input
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getaudioinvolume	

param.cgi?cmd=setaudioinvolume

function	Set the input type	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setaudioinvolume&-volin_type=]	
parameter	volin_type	0: Linear input 1: Mic input
return	Success: contains “ Success”	

	Error: contains "Error"
remarks	not have
instance	/cgi-bin/hi3510/param.cgi?cmd=setaudioinvolume&-volin_type=0

param.cgi?cmd=requestifrm

function	Request that the next frame is a key frame	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=requestifrm&-chn=]	
parameter	chn	11, 12
return	Success: contains "Success" Error: contains "Error"	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=requestifrm&-chn=11	

param.cgi?cmd=requestifrm

function	Request that the next frame is a keyframe	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=requestifrm&-chn=]	
parameter	chn	11, 12, 13
return	Success: contains " Success" Error: contains "Error"	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=requestifrm&-chn=11	

param.cgi?cmd=getcover

function	Gets the video cover parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getcover]	
parameter	not have	
return	show _1	If the area-1 video cover feature enabled: 0: disable 1: Enable
	color _1	Color of video cover area-1
	x _1	x-coordinate of the video cover area-1

	y_1	y-coordinate of the video cover area-1
	w_1	Width of the video cover area-1
	h_1	Height of the video cover area-1
	show_2	If enable the video cover Area-2: 0: Disable 1: Enable
	color_2	Color of the Video cover area 2
	x_2	x-coordinate of the video cover area-2
	y_2	y-coordinate of the video cover area-2
	w_2	Width of the video cover area-2
	h_2	Height of the video cover area-2
	show_3	If enable the video cover Area-3: 0: Disable 1: Enable
	color_3	Color of the Video cover area-3
	x_3	x-coordinate of the video cover area-3
	y_3	y-coordinate of the video cover area-3
	w_3	Width of the video cover area-3
	h_3	Height of the video cover area-3
	show_4	If enable the video cover Area-4: 0: Disable 1: Enable
	color_4	Color of the Video cover area-4
	x_4	x-coordinate of the video cover area-4
	y_4	y-coordinate of the video cover area-4
	w_4	Width of the video cover area-4
	h_4	Height of the video cover area-4
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getcover	

param.cgi?cmd=setcover

function	Set the video cover parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setcover&-show=&-region=&-color=&-x=&-y=&-w=&-h=]	
parameter	region	Video cover area: [1 ~ 4]

	show	Whether the area video cover function is enabled: 0: disable 1: Enable
	color	Color of the Video cover area
	x	x-coordinate of the video cover area
	y	y-coordinate of the video cover area
	w	Width of the video cover area
	h	Height of the video cover area
return	Success: contains "Success" Error: contains "Error"	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setcover&-show=1&-region=1&-color=FFFF FF&-x=0&-y=0&-w=60&-h=60	

CERT file upload

cert.cgi?-filename

function	File upload	
authority	admin	
grammar	/cgi-bin/hi3510/cert.cgi?-filename=cert.pem	
parameter		
return	Success: contains " Success" Error: contains "Error"	
remarks	not have	
instance	/cgi-bin/hi3510/cert.cgi?-filename=cert.pem	

Chapter 2: Infrared and white light control

Param.cgi?cmd=getlampctrl

function	Get the white light parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getlampctrl]	
parameter	not have	
return	var lampstat	Infrared lamp state auto: Automatic open: Forced turning on close: Forced turning off
remarks	Some models do not support this property. Refer to Appendix I Device Type Definition	
instance	/cgi-bin/hi3510/param.cgi?cmd=getlampctrl	

Param.cgi?cmd=setlampctrl

function	Set the white light parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setlampctrl]	
parameter	not have	
return	var lampstat	Infrared lamp state auto: Automatic open: Forced turning on close: Forced turning off
remarks	Some models do not support this property. Refer to Appendix I Device Type Definition	
instance	/cgi-bin/hi3510/param.cgi?cmd=setlampctrl&-lampstat=open	

param.cgi?cmd=getinfrared

function	Get the infrared lamp parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getinfrared]	
parameter	not have	
return	infraredstat	Infrared lamp state auto: Automatic open: Forced turning on close: Forced turning off
remarks	Some models do not support this property. Refer to <i>Appendix I Device Type Definition</i>	
instance	/cgi-bin/hi3510/param.cgi?cmd=getinfrared	

param.cgi?cmd=setinfrared

function	Set the infrared lamp parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setinfrared]	
parameter	not have	
return	infraredstat	Infrared lamp state auto: Automatic open: Forced turning on close: Forced turning off
remarks	Some models do not support this property. Refer to <i>Appendix I Device Type Definition</i>	
instance	/cgi-bin/hi3510/param.cgi?cmd=setinfrared&-infraredstat=auto	

Chapter 3: the network

param.cgi?cmd=getnetattr

function	Gets the device network parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getnet attr]	
parameter	not have	
return	dhcpflag	If the DHCP is enabled?

		on: Enable off: Disable
	ip	IP address
	netmask	subnet mask
	gateway	gateway
	dnsstat	DNS state: 0: Manual setting 1: Automatically set
	fdnsip	first choice DNS
	sdnsip	reserve DNS
	macaddress	MAC address
	networktype	Network Type: LAN: wired WiFi: wireless
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getnetattr	

param.cgi?cmd=setnetattr

function	Configure LAN network parameters of the device	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setnetattr&-dhcp=&-ipaddr=&-netmask=&-gateway=&-dnsstat=&-fdnsip=&-sdnsip=]	
parameter	dhcp	If the DHCP is enabled? on: Enable off: Disable
	ipaddr	IP address
	netmask	subnet mask
	gateway	gateway
	dnsstat	DNS state: 0: Manual setting 1: Automatically set
	fdnsip	first choice DNS
	sdnsip	reserve DNS
return	Success: contains Success Error: contains Error	
remarks	not have	

instance	/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=
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param.cgi?cmd=gethttpport

function	Get the HTTP port	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=gethttpport]	
parameter	not have	
return	httpport	HTTP port
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=gethttpport	

param.cgi?cmd=sethttpport

function	Configure the HTTP port	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=sethttpport&-httpport=]	
parameter	httpport	HTTP port: Range [80~65535]
return	Success: contains Success Error: contains Error	
remarks	After the modification is successful, the device will automatically restart	
instance	/cgi-bin/hi3510/param.cgi?cmd=sethttpport&-httpport=80	

param.cgi?cmd=getrtspport

function	Get the RTSP and RTP ports	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getrtspport]	
parameter	not have	
return	rtsp port	RTSP port
	rtp port	RTP port
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getrtspport	

param.cgi?cmd=setrtspport

function	Configure the RTSP and RTP ports	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setrtspport&-rtspport=&-rtpport=]	
parameter	rtsp port	RTSP port: Range [80~65535]
	rtp port	RTP port: Range [5000~8000]
return	Success: contains Success	
	Error: contains Error	
remarks	After the modification is successful, the device will automatically restart	
instance	/cgi-bin/hi3510/param.cgi?cmd=setrtspport&-rtspport=554&-rtpport=6600	

param.cgi?cmd=getrtmpattr

function	Get the RTMP port	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getrtmpattr]	
parameter	not have	
return	rtmp port	RTMP port
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getrtmpattr	

param.cgi?cmd=setrtmpport

function	Configure the RTMP port	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setrtmpport&-rtmpport=]	
parameter	rtmp port	RTMP port
return	Success: contains Success	
	Error: contains Error	
remarks	After the modification is successful, the device will automatically restart	
instance	/cgi-bin/hi3510/param.cgi?cmd=setrtmpport&-rtmpport=1935	

param.cgi?cmd=getrtspauth

function	Gets the RTSP permission verification
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authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getrtspauth]	
parameter	not have	
return	rtsp_aenable	Enable the RTSP permission verification: 0: Disable 1: Enable
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getrtspauth	

param.cgi?cmd=setrtspauth

function	Configure the RTSP permission verification	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setrtspauth&- rtsp_aenable=]	
parameter	rtsp_aenable	If enable the RTSP permission verification: 0: Disable 1: Enable
return	Success: contains Success Error: contains Error	
remarks	After the successful modification, the device needs to be restarted.	
instance	/cgi-bin/hi3510/param.cgi?cmd=setrtspauth&-rtsp_aenable=1	

param.cgi?cmd=getinterip

function	Query the Internet IP address of the native machine	
authority	admin	
grammar	/ cgi-bin/param.cgi?cmd=getinterip	
parameter	not have	
return	interip	Internet IP addresses, such as interip = "220.112.14.173"
remarks	not have	
instance	/cgi-bin/param.cgi?cmd=getinterip	

param.cgi?cmd=getupnpattr

function	Gets the UPNP parameters
authority	admin

grammar	/cgi-bin/hi3510/param.cgi[?cmd=getupnpattr]	
parameter	not have	
return	upm_enable	If enable UPNP port mapping: 0: Disable 1: Enable
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getupnpattr	

param.cgi?cmd=setupnpattr

function	Set the UPNP parameter	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setupnpattr&-upm_enable=]	
parameter	upm_enable	If enable UPNP port mapping: 0: Disable 1: Enable
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setupnpattr&-upm_enable=1	

param.cgi?cmd=getplatformtype

function	Get the serial number of platform	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getplatformtype]	
parameter	not have	
return	pftype	Platform serial No.: 0: Hichip 1: Waves 3: TUTK 5: Danale 6: Ojett 8: HX
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getplatformtype	

param.cgi?cmd=setplatformtype

function	Set the serial number of platform	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setplatformtype&-pftype=]	
parameter	pftype	Platform serial No.: 0: Hichip 1: Waves 3: TUTK 5: Dana 6: Ojett 8: HX
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setplatformtype&-pftype=0	

param.cgi?cmd=getopplatformattr

function	Gets parameters of the hichip platform	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getopplatformattr]	
parameter	not have	
return	op_state	connection status 1: Online 0: Offline
	op_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	op_server	Server address
	op_port	port
	op_uname	Login ID
	op_passwd	Password
	op_timeout	Timeout time
remarks	not have	

instance	/cgi-bin/hi3510/param.cgi?cmd=getopplatformattr
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param.cgi?cmd=setplatformtype

function	Set parameters of the hichip platform	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?setopplatformattr&-op_enable=&-op_uname=&-op_passwd=&-op_server=&-op_port=&-op_timeout=]	
parameter	op_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	op_server	Server address
	op_port	port
	op_uname	Login ID
	op_passwd	Password
	op_timeout	Timeout time
return	Success: contains Success Error: contains Error	
remarks	After the successful modification, the device needs to be restarted	
instance	/cgi-bin/hi3510/param.cgi?cmd=setopplatformattr&-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	Get parameters of wave platform	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getgoolinkattr]	
parameter	not have	
return	goolink_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	goolink_uid	UID
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi ?cmd=getgoolinkattr	

param.cgi?cmd=setgoolinkattr

function	Set parameters of wave platform	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?setgoolinkattr&-goolink_enable=&-goolink_uid=]	
parameter	goolink_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	goolink_uid	UID
return	Success: contains Success Error: contains Error	
remarks	After the successful modification, the device needs to be restarted	
instance	/cgi-bin/hi3510/param.cgi?cmd=setgoolinkattr&-goolink_enable=1&-goolink_uid=zz08580aa545	

param.cgi?cmd=getp2pattr

function	Gets the TUTK parameter	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=getp2pattr]	
parameter	not have	
return	p2p_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	p2p_mode	
	p2p_pushaddr	
	p2p_uid	UID
	p2p_server1	Server Address 1
	p2p_server 2	Server Address 2
	p2p_server 3	Server address 3
	p2p_server 4	Server Address 4
	not have	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi ?cmd=getp2pattr	

param.cgi?cmd=setp2pattr

function	Set the TUTK parameter	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setp2pattr&-p2p_enable=&-p2p_uid=&-p2p_server1=&-p2p_server2=&-p2p_server3=&-p2p_server4=]	
parameter	p2p_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	p2p_uid	UID
	p2p_server1	Server Address 1
	p2p_server 2	Server Address 2
	p2p_server 3	Server address 3
	p2p_server 4	Server Address 4
return	Success: contains Success Error: contains Error	
remarks	After the successful modification, the device needs to be restarted	
instance	/cgi-bin/hi3510/param.cgi?cmd=setp2pattr&-p2p_enable=1&-p2p_uid=FLCTB5ME9WAF8MPPSFSS&-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	Gets the danale platform parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=getdanaattr]	
parameter	not have	
return	dana_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	dana_server	Server address
	dana_port	port
	dana_sn	serial number
remarks		

instance	/cgi-bin/hi3510/param.cgi ?cmd=getdanaattr
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param.cgi?cmd=setdanaattr

function	Set the danale platform parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setdanaattr&-dana_enable=&-dana_server=&-dana_port =&-dana_sn =]	
parameter	dana_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	dana_server	Server address
	dana_port	port
	dana_sn	serial number
return	Success: contains Success Error: contains Error	
remarks	After the successful modification, the device needs to be restarted	
instance	/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	Get the Ojet platform parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=getobjattr]	
parameter	not have	
return	obj_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	obj_uid	serial number
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getobjattr	

param.cgi?cmd=setobjattr

function	Set the Ojet platform parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setobjattr&-obj_enable=&-obj_uid=]	
parameter	obj_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	obj_uid	serial number
return	Success: contains Success Error: contains Error	
remarks	After the successful modification, the device needs to be restarted	
instance	/cgi-bin/hi3510/param.cgi?cmd=setobjattr&-obj_enable=1&-obj_uid=ERTDG G3R4FGH	

param.cgi?cmd=gethip2pattr

function	Get the parameters of HX platform	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=gethip2pattr]	
parameter	not have	
return	hip2p_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	hip2p_uid	serial number
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=gethip2pattr	

param.cgi?cmd=sethip2pattr

function	Set the parameters of HX platform	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setobjattr&-hip2p_enable =&-hip2p_uid=]	
parameter	hip2p_enable	Whether the platform connection is turned on 1: Enable 0: Disable

	hip2p_uid	serial number
return	Success: contains Success Error: contains Error	
remarks	After the successful modification, the device needs to be restarted	
instance	/cgi-bin/hi3510/param.cgi?cmd=sethip2pattr&-hip2p_enable=1&-hip2p_uid=E RDBFHSA	

param.cgi?cmd=getonvifattr

function	Gets the onvif parameter	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getonvifattr]	
parameter	not have	
return	ov_enable	Whether the platform connection is turned on 1: Enable 0: Disable
	ov_port	port
	ov_authflag	Whether permissions are checked 1: Check 0: No check
	ov_forbitset var ov_snapchn var ov_snapchn var ov_nvctype	0: Allow to set time-zone, allow to set image parameter 1: Time zone setting prohibited, and image parameter setting allows 2: Time zone setting allowed, and image parameter setting is prohibited 3: Both the settings of the time zone and image parameter is prohibited
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getonvifattr	

param.cgi?cmd=setonvifattr

function	Set the onvif parameter
authority	admin

grammar	/cgi-bin/hi3510/param.cgi[?cmd=setonvifattr&-ov_enable=&-ov_port=&-ov_authflag=&-ov_forbitset=]	
parameter	ov_enable	Whether to enable 1: Enable 0: Disable
	ov_port	port
	ov_authflag	Whether the permissions are checked 1: Check 0: No check
	ov_forbitset	0: Allow to set time-zone, allow to set image parameter 1: Time zone setting prohibited, and image parameter setting allows 2: Time zone setting allowed, and image parameter setting is prohibited 3: Both the settings of the time zone and image parameter is prohibited
return	Success: contains Success Error: contains Error	
remarks	After the successful modification, the device needs to be restarted	
instance	/cgi-bin/hi3510/param.cgi?cmd=setonvifattr&-ov_enable=1&-ov_port=8080 &-ov_authflag=0&-ov_forbitset=0	

Chapter 4. Wifi CGI

param.cgi?cmd=getwirelessattr

function	Get wireless parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getwirelessattr]	
parameter	not have	
return	wf_enable	Whether wifi is enabled 0: Disable 1: Enable
	wf_ssid	SSID Maximum number of 32 characters
	wf_auth	way of encryption

		0: No encryption 1: WEP 2: WPA-PSK 3: WPA2-PSK
	wf_key	secret key
	wf_enc	Password type 0: TKIP 1: AES
	wf_mode	connect mode 0: Router mode 1: Point-to-point approach
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getwirelessattr	

param.cgi?cmd=setwirelessattr

function	Configure wifi parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setwirelessattr&-wf_enable=&-wf_ssid=&-wf_auth=&-wf_key=&-wf_enc=&-wf_mode=]	
parameter	wf_enable	Whether wifi is enabled 0: Disable 1: Enable
	wf_ssid	SSID Maximum number of 32 characters
	wf_auth	Way of encryption 0: No encryption 1: WEP 2: WPA-PSK 3: WPA2-PSK
	wf_key	secret key
	wf_enc	Password type 0: TKIP 1: AES
	wf_mode	connect mode 0: Router mode 1: Point-to-point approach
return	Success: contains Success	

	Error: contains Error
remarks	not have
instance	/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	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=searchwireless]	
parameter	not have	
return	waccess_points	Number of the wireless networks searched
	wchannel	channel
	wrssi	signal strength
	wssid	SSID
	wenc	way of encryption
	wauth	Certification method
	wnet	Connect Mode (Router Mode, Point to Point Mode)
	Note: If there are multiple wifi networks, when waccess_points is greater than 1, multiple sets of values for wchannel to wnet fields except access_points, such as: <pre>var waccess_points="2" ; var wchannel=new Array(); var wrssi=new Array(); var wssid=new Array(); var wenc =new Array(); var wauth=new Array(); var wnet=new Array(); wchannel[0]="6" ; wrssi[0]="-82" ; wssid[0]="Fumax wireless" ; wenc[0]="AES" ; wauth[0]="WPA(2)-PSK" ; wnet[0]="Infra" ; wchannel[1]="11" ; wrssi[1]="-62" ; wssid[1]="linksys" ; wenc[1]="TKIP" ;</pre>	

	wauth[1]="WPA(2)-PSK" ; wnet[1]="Infra" ;
remarks	not have
instance	/cgi-bin/hi3510/param.cgi?cmd=searchwireless

param.cgi?cmd=chkwirelessattr

function	Configure the detection of the wireless parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=chkwirelessattr&-wf_ssid=&-wf_auth=&-wf_key=&-wf_enc=&-wf_mode=]	
	wf_ssid	SSID Maximum number of 32 characters
	wf_auth	way of encryption 0: No encryption 1: WEP 2: WPA-PSK 3: WPA2-PSK
	wf_key	Secret key
	wf_enc	Password type 0: TKIP 1: AES
	wf_mode	connection mode 0: Router mode 1: Point-to-point approach
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/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	Obtained the result of detecting WIFI
authority	admin
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getchkwireless]

parameter	not have	
return	chkres	test result 0: Failure 1: Success
remarks	Please execute the check cgi first: param.cgi?cmd=chkwirelessattr	
instance	/cgi-bin/hi3510/param.cgi?cmd=getchkwireless	

Chapter 5: DDNS

param.cgi?cmd=getourddnsattr

function	Gets the vendor DDNS parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getourddnsattr]	
parameter	not have	
return	our_enable	Whether the vendor DDNS is enabled: 0: Disable 1: Enable
	our_server	Server address
	our_port	port
	our_uname	user name
	our_passwd	password
	our_domain	host name
	var out_interval	time interval
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getourddnsattr	

param.cgi?cmd=setourddnsattr

function	Set the vendor DDNS parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setourddnsattr&-our_enable=&-our_server=&-our_port=&-our_uname=&-our_passwd=]	
parameter	our_enable	Whether the vendor DDNS is enabled: 0: Disable 1: Enable

	our_server	Server address
	our_port	port
	our_uname	user name
	our_passwd	password
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/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	Gets the third-party DDNS parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=get3thddnsattr]	
parameter	not have	
return	d3th_enable	Whether third party DDNS is enable: 0: Disable 1: Enable
	d3th_service	DDNS Service provider type: 0: dy ndns.org 1: 322.org 2: dynddns.us 3: No-ip.com
	d3th_uname	user name
	d3th_passwd	password
	d3th_domain	host name
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=get3thddnsattr	

param.cgi?cmd=set3thddnsattr

function	Set the third-party DDNS parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=set3thddnsattr.&-d3th_enable=&-d3th_service=&-d3th_uname=&-d3th_passwd=&-d3th_domain=]	
parameter	d 3th_enable	Whether third party DDNS is enable:

		0: Disable 1: Enable
	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: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=set3thddnsattr&-d3th_enable=1&-d3th_service=1&-d3th_uname=sample&-d3th_passwd=1234&-d3th_domain=sample.dyndns.org	

Chapter 6: Pan-Tilt-Zoom Control

param.cgi?cmd=getmotorrange

function	Get the step length	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi?cmd=getmotorrange	
parameter	var panrange	pan
	var tiltrange	tilt
	var panhome	the middle of pan
	var tilthome	The middle of vertical
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi? cmd=getmotorrange	

param.cgi?cmd=setmotorrange

function	Get the step length	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi? cmd=setmotorrange	
parameter	var panrange	pan
	var tilrange	tilt
	var panhome	the middle of pan
	var tilthome	The middle of vertical
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi? cmd=setmotorrange&-panrange=500	

param.cgi?cmd=ptzctrl

function	Pan tilt zoom control	
authority	admin and user	
grammar	/cgi-bin/hi3510/param.cgi?cmd=ptzctrl.cgi[&-step=&-act=&-speed=]	
parameter	step	step mode of motor: 0: After a single step, need stop command to stop 1: To stop automatically after a single step
	act	Control command strings, such as: left: Turn left right: Turn right up: Turn upward down: Turn downward home: Back to the center position zoomin: Short the Focal length and enlarge image zoomout: Stretch the Focal length and shrink image focusout: Focus + focusin: Focus- hscan: Horizontal cruise

		vscan: Vertical cruise stop: Cease
	speed	PTZ speed, and the values range from 1 to 63.
return	Success: contains Success Error: contains Error	
remarks	Different models will support different platform parameters , refer to <i>Appendix I device type definition</i>	
instance	/cgi-bin/hi3510/param.cgi?cmd=ptzctrl&-step=0&-act=left&-speed=45	

param.cgi?cmd=preset

function	PTZ Preset Operation	
authority	admin and user	
grammar	/cgi-bin/hi3510/param.cgi?cmd=preset[&-act=&-status=&-number=]	
parameter	act	operating command: goto: Call the preset position set: Set the preset position
	status	Preset operation instruction: 0: Clear 1: Save
	number	Number of preset
return	Success: contains Success Error: contains Error	
remarks	The number of preset positions will be different for models	
instance	/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	Obtain the PTZ parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getmotorattr]	
parameter	not have	
return	panspeed	horizontal speed: 0: Fast 1: middle speed 2: Slow

	tiltspeed	vertical speed: 0: Fast 1: middle speed 2: Slow
	panscan	Number of horizontal cruise
	tiltsan	Number of vertical cruise
	movehome	Self-inspection and go to home position on: enable off: disable
	ptzalarmmask	Turn off the alarm when the PTZ is moving on: enable off: disable
	light_enable	
	alarmpresetindex	Alarm linkage preset position, from 1 to 8.
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getmotorattr	

param.cgi?cmd=setmotorattr

function	Set the PTZ parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setmotorattr&-panspeed=&-tiltspeed=&-panscan=&-tiltsan=&-movehome=&-ptzalarmmask=&-alarmpresetindex=]	
parameter	panspeed	horizontal speed: 0: Fast 1: middle speed 2: Slow
	tiltspeed	vertical speed: 0: Fast 1: middle speed 2: Slow
	panscan	Number of horizontal cruise
	tiltsan	Number of vertical cruise
	movehome	Self-inspection and go to home position on: enable off: disable
	ptzalarmmask	Turn off the alarm when the PTZ is moving on: enable

		off: disable
	alarmpresetindex	Alarm linkage preset position, from 1 to 8.
return	Success: contains Success Error: contains Error	
remarks	Horizontal speed should be same as vertical speed , and horizontal cruise number should be same as vertical cruise value.	
instance	/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	Gets the PTZ parameters	
authority	admin and user	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getptzcomattr]	
parameter	not have	
return	protocol	protocol type: 0: PELCO-D 1: PELCO-P
	address	Address code (0~255)
	baud	Baud rate
	databit	data bit
	stopbit	stop bit
	check	verification: 0: No 1: ODD Verification 2: Even Verification 3: Mark 4: Space
	speed	speed
remarks	Some models have no this attributes, please refer to <i>Appendix I device type definition</i> for details	
instance	/cgi-bin/hi3510/param.cgi?cmd=getptzcomattr	

param.cgi?cmd=setptzcomattr

function	Set the PTZ parameter
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authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setptzcomattr&-protocol=&-address=&-baud=&-databit=&-stopbit=&-check=&-speed=]	
parameter	protocol	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 bit: 7,8 (one of them)
	stopbit	Stop bit: 1,2 (one of them)
	check	verification: 0: No check 1: ODD Verification 2: Even Verification
	Speed	Speed (1-63)
return	Success: contains Success Error: contains Error	
remarks	Some models do not have this property, please refer to <i>Appendix I Device type definition</i> for details	
instance	/cgi-bin/hi3510/param.cgi?cmd=setptzcomattr&-protocol=0&-address=1&-baud=9600&-databit=8&-stopbit=1&-check=0&-speed=31	

ptzup.cgi

function	Control PTZ to turns up (PTZ control for phone browsing)
authority	admin and user
grammar	/cgi-bin/hi3510/ptzup.cgi
parameter	not have
return	Success: contains Success Error: contains Error
remarks	not have
instance	/cgi-bin/hi3510/ptzup.cgi

ptzdown.cgi

function	Control PTZ to turns down (PTZ control for phone browsing)
authority	admin and user
grammar	/cgi-bin/hi3510/ptzdown.cgi
parameter	not have
return	Success: contains Success Error: contains Error
remarks	not have
instance	/cgi-bin/hi3510/ptzdown.cgi

ptzleft.cgi

function	Control PTZ to moves to the left (PTZ control for mobile phone browsing)
authority	admin and user
grammar	/cgi-bin/hi3510/ptzleft.cgi
parameter	not have
return	Success: contains Success Error: contains Error
remarks	not have
instance	/cgi-bin/hi3510/ptzleft.cgi

ptzright.cgi

function	Control PTZ to the right (PTZ control for phone browsing)
authority	admin and user
grammar	/cgi-bin/hi3510/ptzright.cgi
parameter	not have
return	Success: contains Success Error: contains Error
remarks	not have
instance	/cgi-bin/hi3510/ptzright.cgi

ptzzoomin.cgi

function	Control PTZ to zoom in (for PTZ control during phone browsing)
authority	admin and user

grammar	/cgi-bin/hi3510/ptzzoomin.cgi
parameter	not have
return	Success: contains Success Error: contains Error
remarks	not have
instance	/cgi-bin/hi3510/ptzzoomin.cgi

ptzzoomout.cgi

function	Control PTZ to zoom out (for PTZ control during phone browsing)
authority	admin and user
grammar	/cgi-bin/hi3510/ptzzoomout.cgi
parameter	not have
return	Success: contains Success Error: contains Error
remarks	not have
instance	/cgi-bin/hi3510/ptzzoomout.cgi

Chapter 7: Motion detection and I / O alarm

param.cgi?cmd=getmdattr

function	Gets the motion detection configuration parameters	
authority	admin	
grammar	cgi-bin/hi3510/param.cgi[?cmd=getmdattr]	
parameter	Not have	
return	m1_enable	Enable the area 1 motion detection function: 0: Disable 1: Enable
	m1_x	X-coordinate of Area 1
	m1_y	Y-coordinate of Area 1
	m1_w	Width of Area 1
	m1_h	Height of Area 1
	m1_sensitivity	Sensitivity of Area 1
	m1_threshold	Keep the field, unused

	m2_enable	Enable the area 2 motion detection function: 0: Disable 1: Enable
	m2_x	X-coordinate of Area 2
	m2_y	Y-coordinate of Area 2
	m2_w	Width of Area 2
	m2_h	Height of Area 2
	m2_sensitivity	Sensitivity of Area 2
	m2_threshold	Keep the field, unused
	m3_enable	Enable the area 3 motion detection function: 0: Disable 1: Enable
	m3_x	X-coordinate of Area 3
	m3_y	Y-coordinate of Area 3
	m3_w	Width of Area 3
	m3_h	Height of Area 3
	m3_sensitivity	Sensitivity of Area 3
	m3_threshold	Keep the field, unused
	m4_enable	Enable the area 4 motion detection function: 0: Disable 1: Enable
	m4_x	X-coordinate of Area 4
	m4_y	Y-coordinate of Area 4
	m4_w	Width of Area 4
	m4_h	Height of Area 4
	m4_sensitivity	Sensitivity of Area 4
	m4_threshold	Keep the field, unused
remarks	Regional coordinates and width\ height are based on the maximum resolution of the device.	
instance	/cgi-bin/hi3510/param.cgi?cmd=getmdattr	

param.cgi?cmd=setmdattr

function	Configure the motion detection parameters
authority	admin
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setmdattr&-enable=&-s=&-name=&-x=&-y=&-w=&-h=]

parameter	enable	If enable the motion detection function: 0: Disable 1: Enable
	s	Sensitivity: Range [1 ~ 100]
	name	Alarm area: range [1 ~ 4]
	x	X-coordinate of motion detection area
	y	Y-coordinate of motion detection area
	w	Width of motion detection area
	h	Height of motion detection area
return	Success: contains Success Error: contains Error	
remarks	Regional coordinates and width/ height are based on the maximum resolution of the device.	
give an 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	Obtain the external alarm input parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getioattr]	
parameter	not have	
return	io_enable	If enable the external alarm input: 0: Disable 1: Enable
	io_flag	Mode of the external alarm: 0: Often closed 1: Open often
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getioattr	

param.cgi?cmd=setioattr

function	Set parameters of the external alarm input	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setioattr &-io_enable=&-io_flag=]	
parameter	io_enable	If enable the external alarm input:

		0: Disable 1: Enable
	io_flag	Mode of the external alarm: 0: Often closed 1: Open often
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setioattr&-io_enable=1&-io_flag=0	

param.cgi?cmd=getmdalarm

function	Obtain the alarm linkage status information	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getmdalarm&-aname=]	
parameter	aname	Option Name: email: E-mail alarm emailsnap: E-mail alarm and sends the pictures snap: Save the pictures to the SD card ftpsnap: Save the pictures to the FTP server record: Save the video to the SD card ftprec: Save the video to the FTP server relay: Relay output
return	md_email_switch	If enable the E-mail alarm function: on: enable off: disable
	md_emailsnap_switch	If enable the E-mail alarm and send pictures: on: enable off: disable
	md_snap_switch	If enable saving pictures to the SD card: on: enable off: disable
	md_ftpsnap_switch	If enable saving pictures to the FTP server: on: enable off: disable
	md_record_switch	If enable saving the video to the SD card: on: enable off: disable

	md_ftprec_switch	If enable saving video to the FTP server: on: enable off: disable
	md_relay_switch	If enable the relay output: on: enable off: disable
remarks	not have	
instance	/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 the alarm linkage parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setmdalarm &-aname=&-switch=]	
parameter	aname	email: E-mail alarm emailsnap: E-mail alarm and sends the pictures snap: Save the pictures to the SD card ftpsnap: Save the pictures to the FTP server record: Save the video to the SD card ftprec: Save the video to the FTP server relay: Relay output
	switch	Alarm linkage option value: on: enable off: disable
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setmdalarm&-aname=email&-switch=off&cmd=setmdalarm&-aname=emailsnap&-switch=off&cmd=setmdalarm&-aname=ftpsnap&-switch=off&cmd=setmdalarm&-aname=snap&-switch=off&cmd=setmdalarm&-aname=ftprec&-switch=off&cmd=setmdalarm&-aname=record&-switch=off&cmd=setmdalarm&-aname=relay&-switch=off	

param.cgi?cmd=getrelayattr

function	Gets the relay output time during the alarm linkage	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getrelayattr]	
parameter	not have	
return	time	Output time (in seconds), such as var time= "10";
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getrelayattr	

param.cgi?cmd=setrelayattr

function	Set the relay output time during the alarm linkage	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setrelayattr&-time=]	
parameter	time	Output time (in seconds), value range [5,10,20,30]
return	Success: contains Success Error: contains Error	
remarks	not have	
give an example	/cgi-bin/hi3510/param.cgi ?cmd=setrelayattr&-time=10	

param.cgi?cmd=getalarmsnapattr

function	Get the number of picture snap shots	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=getalarmsnapattr]	
parameter	not have	
return	snap_count	Picture capture number
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getalarmsnapattr	

param.cgi?cmd=setalarmsnapattr

function	Set the number of picture snap shots	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setalarmsnapattr&-snap_count=]	

parameter	snap_count	Number of pictures captured, range of values: [1,2,3]
return	Success: contains Success Error: contains Error	
remarks	not have	
give an example	/cgi-bin/hi3510/param.cgi?cmd=setalarmsnapattr&-snap_count=2	

param.cgi?cmd=getscheduleex

function	Obtain the date of alarm active and schedule video recording	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getscheduleex&-ename=]	
parameter	ename	Options name: md: alarm active plan: schedule video recording
return	week0=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPP week1=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPP Week2=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPP week3=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPP week4=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPP week5=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP	week0: Sunday week1: Monday week2: Tuesday week3: Wednesday week4: Thursday week5: Friday week6: Saturday P: enable N: disable

	P P P P P P week6=P P	
remarks	Parameter-week0~ week6, each parameter has 48 characters, means the video configuration string of 24 hours a day (each char means half an hour, so 48 chars equal 24 hours; P or N indicating whether the video recording is turned on, P means on, N means off), and the time is calculated from zero clock.	
give an example	/cgi-bin/hi3510/param.cgi?cmd=getscheduleex&-ename=md	

param.cgi?cmd=setscheduleex

[illegible]

param.cgi?cmd=getplanrecattr

function	Get the scheduled video recording parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=getplanrecattr]	
parameter	not have	
return	planrec_enable	Whether to turn on the video recording 0: Disable 1: Enable
	planrec_time	Length of the video file (15-900 seconds)
	planrec_chn	Video code rates: 11 (first stream), 12(second stream), 13(third stream)
	planrec_type	Video format, 0: AVI, 1:264
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getplanrecattr	

param.cgi?cmd=setplanrecattr

function	Set the scheduled video recording parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setplanrecattr&-planrec_enable=&-planrec_time&-planrec_chn]	
parameter	planrec_enable	Whether to turn on the video recording 0: Disable 1: Enable
	planrec_time	Length of the video file (15-900 seconds)
	planrec_chn	Video code rates: 11 (first stream), 12(second stream), 13(third stream)
return	Success: contains Success Error: contains Error	
remarks	After the successful modification, the device will automatically restart	
instance	/cgi-bin/hi3510/param.cgi?cmd=setplanrecattr&-planrec_enable=1&-planrec_time=30&-planrec_chn=12	

param.cgi?cmd=relayctrl

function	Turn the relay on or off manually
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authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=relayctrl&-act=]	
	act	If the relay function enabled: on: enable off: disable
return	Success: contains Success Error: contains Error	
remarks	not have	
give an example	/cgi-bin/hi3510/param.cgi?cmd=relayctrl&-act=on	

Chapter 8: User management

param.cgi?cmd=getuserattr

function	Get all of the user information	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=getuserattr]	
parameter	not have	
return	at_n ame	user name
	at_password	User password
remarks	This command will return all of the user information, such as: <pre>var at_name0="admin"; var at_password0="admin"; var at_name1="user"; var at_password1="user"; var at_name2="guest"; var at_password2="guest";</pre>	

instance	/cgi-bin/hi3510/param.cgi?cmd=getuserattr
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param.cgi?cmd=setuserattr

function	Configure the user name	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setuserattr&-at_username=&-at_newname=&-at_password=]	
parameter	at_username	Old username, with a maximum character number of 16
	at_newname	New username, with a maximum character number of 16
	at_password	Password , the maximum character number is 16
return	Success: contains Success Error: contains Error	
remarks	Warning: Camhi/ CamhiPro APP only accepts "admin" as the default username, if you change it to another username, the APP will not be able to log in to the camera again.	
instance	/cgi-bin/hi3510/param.cgi?cmd=setuserattr&-at_username=admin&-at_newname=newname&-at_password=admin	

param.cgi?cmd=getsetupflag

function	Gets the admin user name	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi?cmd=getsetupflag	
parameter	not have	
return	name0	user name
	password0	password
	authLevel0	Keep the field
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getsetupflag	

param.cgi?cmd=getstreamflag

function	Gets the guest user name
authority	guest

grammar	/cgi-bin/hi3510/ param.cgi?cmd=getstreamflag	
parameter	not have	
return	name 2	user name
	password 2	password
	authLevel 2	Keep the field
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getstreamflag	

param.cgi?cmd=getptzflag

function	Gets the user parameter	
authority	user	
grammar	/cgi-bin/hi3510/param.cgi?cmd=getptzflag	
parameter	not have	
return	name1	user name
	password1	password
	authLevel1	Keep the field
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getptzflag	

param.cgi?cmd=getuserinfo

function	Get the login user information	
authority	admin, user, or guest	
grammar	/cgi-bin/hi3510/param.cgi?cmd=getuserinfo	
parameter	not have	
return	name	user name
	password	password
	authLevel	authority 15: admin 3: user 1: guest
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getuserinfo	

Chapter 9: Timing Snap

param.cgi?cmd=getsnaptimerattrex

function	Get the parameters of timing capture pictures	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getsnaptimerattrex]	
parameter	not have	
return	as_snap_enable	If enable timing snap and save photos to SD card: 0: Disable 1: Enable
	as_snap_interval	Snap time interval, unit: seconds (range: 5~86400)
	as_email_enable	If enable timing snap and send photos to Email: 0: Disable 1: Enable
	as_email_interval	Snap time interval, unit: seconds (range: 5~86400)
	as_ftp_enable	If enable timing snap and send photos to FTP server: 0: Disable 1: Enable
	as_ftp_interval	Snap time interval, unit: seconds (range: 5~86400)
	as_cloud_enable	If enable timing snap and send photos to cloud server. (Reserved, not use) 0: Disable 1: Enable
	var_cloud_interval	Snap time interval, unit: seconds (range: 5~86400)
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getsnaptimerattrex	

param.cgi?cmd=setsnaptimerattrex

function	Set the parameters of timing capture picture	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setsnaptimerattrex&-as_enable=&-as_interval=&-as_type=]	
parameter	as_enable	Whether the timing snap is turned on: 0: disable

		1: Enable
	as_interval	Snap time interval, unit: seconds (range: 5~86400)
	as_type	Linkage type: snap: Save the picture to the SD card. email: Send pictures to Email ftp: Send the pictures to the FTP server.
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=setsnaptimerattrex&-as_enable=1&-as_interval=60&-as_type=snap	

Chapter 10: FTP

param.cgi?cmd=getftpattr

function	Gets the FTP parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=getftpattr]	
parameter	not have	
return	ft_server	FTP server address
	ft_port	Server port
	ft_username	user name
	ft_password	password
	ft_dirname	path
	ft_mode	Passive mode: 0: Disable 1: Enable
	ft_autocreatedir	Automatically create a directory: 0: Disable 1: Enable
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getftpattr	

param.cgi?cmd=setftpattr

function	Set the FTP parameter
----------	-----------------------

authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getftpattr&-ft_server=&-ft_port=&-ft_username=&-ft_password=&-ft_dirname=&-ft_mode=]	
parameter	ft_server	FTP server address
	ft_port	Server port
	ft_username	user name
	ft_password	password
	ft_dirname	path
	ft_mode	Passive mode: 0: Disable 1: Enable
	ft_autocreatedir	Automatically create a directory: 0: Disable 1: Enable
return	Success: contains Success Error: contains Error	
remarks	not have	
give an 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	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=testftp]	
parameter	not have	
return	result	type 0: Success -1: Unknown error -2: Cannot connect to the server -3: Wrong username or password -4: Error in the path
remarks	not have	
give an example	/cgi-bin/hi3510/param.cgi?cmd=testftp	

Chapter 11: SMTP

param.cgi?cmd=getsmtppatr

function	Gets the SMTP configuration parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi [?cmd=getsmtppatr]	
parameter	not have	
return	ma_server	The SMTP server address
	ma_port	Server port
	ma_ssl	Secure connection type: 0: Close 1: SSL 2: TLS 3: STARTTLS
	ma_logintype	If the verification required: 1: Turn on the validation 3: Disable the validation
	ma_username	user name
	ma_password	password
	ma_from	Email address of sender
	ma_to	Email address of receiver
	ma_subject	subject of an email
	ma_text	Email text content
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getsmtppatr	

param.cgi?cmd=setsmtppatr

function	Set the SMTP parameter	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setsmtppatr&-ma_server=&-ma_port=&-ma_ssl=&-ma_logintype=&-ma_username=&-ma_password=&-ma_from=&-ma_to=&-ma_subject=&-ma_text=]	
parameter	ma_server	The SMTP server address
	ma_port	Server port
	ma_ssl	Secure connection type:

		0: Close 1: SSL 2: TLS 3: STARTTLS
	ma_logintype	If the verification required: 1: Turn on the validation 3: Disable the validation
	ma_username	user name
	ma_password	password
	ma_from	Email address of sender
	ma_to	Email address of receiver
	ma_subject	subject of an email
	ma_text	Email text content
return	Success: contains Success Error: contains Error	
remarks	not have	
give an example	/cgi-bin/hi3510/param.cgi?cmd=setsmtppatr&-ma_server=smtp.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	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=smtp]	
parameter	not have	
return	result	type 0: Success -1: Unknown error -2: SSL error -3: Cannot connect to the server -4: Error in the user name or password
remarks	not have	
give an example	/cgi-bin/hi3510/param.cgi?cmd=testsmtp	

Chapter 12: SD card

param.cgi?cmd=sdfrmt

function	Format the SD card as a FAT32 file system
authority	admin
grammar	/cgi-bin/hi3510/param.cgi?cmd=sdfrmt
parameter	not have
return	Format SD Card Success
remarks	The waiting time is longer
instance	/cgi-bin/hi3510/param.cgi?cmd=sdfrmt

param.cgi?cmd=sdstop

function	Stop using the SD card
authority	admin
grammar	/cgi-bin/hi3510/param.cgi?cmd=sdstop
parameter	not have
return	Stop SD Card Success
remarks	The waiting time is longer
instance	/cgi-bin/hi3510/param.cgi?cmd=sdstop

Chapter 13: Timing Restart

Param.cgi?cmd=gettimerreboot

function	Get status of Timing Restart	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi? cmd=gettimerreboot	
parameter	sr_enable	If enable the timing restart 0: Off, 1: On
	sr_day	Week: 0-6: Sunday-Saturday

		7: Every day
	sr_hour	Time: 0~23 hours
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi? cmd=gettimerreboot	

Param.cgi?cmd=settimerreboot

function	Set Timing Restart	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi? cmd=settimerreboot	
parameter	sr_enable	If enable the timing restart 0: Off, 1: On
	sr_day	Week: 0-6: Sunday-Saturday 7: Every day
	sr_hour	Time: 0~23 hours
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi? cmd=settimerreboot&-sr_enable=0	

Chapter 14: Language setting

param.cgi?cmd=getlanguage

function	Get the language settings	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi? cmd=getlanguage	
parameter	lancode	0: Chinese, 1: English
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi? cmd=getlanguage	

Param.cgi?cmd=setlanguage

function	Set the language	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi? cmd=getlanguage	
parameter	lancode	0: Chinese, 1: English
return	Success: contains Success Error: contains Error	
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi? cmd=setlanguage&-language=0	

Chapter 15: Multi Camera Setting

param.cgi?cmd=getdevices

function	Multiplex settings	
authority	Admin	
grammar	/cgi-bin/hi3510/param.cgi? cmd=getdevices	
parameter	not have	
return	d_host	device address
	d_ailas	Device alias
	d_port	Device port
	d_username	device name
	d_password	Device password
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi? cmd=getdevices	

Param.cgi?cmd=setdevices

function	Multi cameras settings	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi? cmd=setdevices	
parameter	not have	
return	d_host	device address
	d_ailas	Device alias
	d_port	Device port
	d_username	device name
	d_password	Device password
remarks	not have	
instance	cgi-bin/hi3510/param.cgi?cmd=setdevices&-d_number=2&-d_host=192.168.1	

Chapter 16: System setting

param.cgi?cmd=getserverinfo

function	Get device information	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getserverinfo]	
parameter	not have	
return	model	Device Serial Number
	hardVersion	Hardware version
	softVersion	software release
	webVersion	Web version
	name	device name
	startdate	System start time
	upnpstatus	upnp state ok: success off: It is not enabled failed: It has failed
	facddnsstatus	Factory dynamic domain name status ok: success off: It is not enabled failed: It has failed
	th3ddnsstatus	Third-party dynamic domain name status ok: success off: It is not enabled failed: It has failed
	platformstatus	Platform status
	runtimes	Keep the field
	sdstatus	SD card status out: No SD card Ready: The SD card is available Readonly: The SD card is read-only
	sdfreespace	The remaining available space size of the SD card that measured in KB

	sdtotalspace	Total capacity of the SD card, as measured in KB
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getserverinfo	

param.cgi?cmd=getdevtype

function	Gets the device type information	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getdevtype]	
parameter	not have	
return	devtype	device type
remarks	Refer to <i>Appendix I Device Type Definition</i>	
instance	/cgi-bin/hi3510/param.cgi?cmd=getdevtype	

param.cgi?cmd=getstreamnum

function	Get the number of real-time video monitor users	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getstreamnum]	
parameter	not have	
return	stream_num	Number of online users, such as var stream_num = "1";
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getstreamnum	

param.cgi?cmd=getservertime

function	Get the system time information	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getservertime]	
parameter	not have	
return	time	Current Date and Time, [yyyy][mm][dd][hh][mm][ss] Such as time= "20110802182638";
	timeZone	Time zones, such as timeZone= "Asia / Hong_Kong";
	dstmode	If daylight saving time auto time enabled:

	on: enable off: disable
remarks	not have
instance	/cgi-bin/hi3510/param.cgi?cmd=getservertime

param.cgi?cmd=setservertime

function	Set the system time	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setservertime&-time=&-timezone=&-dstmode=]	
parameter	stime	Current date time [yyyy].[mm].[dd].[hh].[mm].[ss] For example: 2011.08.23.10.35.08
	timezone	Time zone: For example, timeZone= "Asia / Hong_Kong"; Note: See the <i>Appendix II time zone table</i> for the specific field values of the time zone.
	dstmode	If auto enable daylight saving time on: start using off: disable
return	Success: contains Success Error: contains Error	
remarks	Daylight-time auto regulation time is not available in all time zones.	
give an 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	Gets the NTP parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getntpattr]	
parameter	not have	
return	ntpenable	If NTP enabled: 1: Enable 0: Not enabled
	ntpserver	NTP server: (one of the following)

		time.nist.gov time.kriss.re.kr time.windows.com time.nuri.net
	ntpinterval	Synchronous interval
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getntpattr	

param.cgi?cmd=setntpattr

function	Configure the NTP parameter	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setntpattr&-ntpenable=&-ntpserver=&-ntpinterval=]	
parameter	ntpenable	If NTP enabled: 1: Enable 0: Not enabled
	ntpserver	NTP server: (One of the following is recommended) time.nist.gov time.kriss.re.kr time.windows.com time.nuri.net
	ntpinterval	Synchronization interval: range [1 ~ 24 hours]
return	Success: contains Success Error: contains Error	
remarks	not have	
give an example	/cgi-bin/hi3510/param.cgi?cmd=setntpattr&-ntpenable=1&-ntpinterval=2&-ntpserver=time.nuri.net	

param.cgi?cmd=getcapability

function	Gets the device capability parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=getcapability]	
parameter	not have	
return	cap_cvbs	If the CVBS enabled:

		on: enable off: Disable
	cap_sd	If the SD card enabled: on: enable off: Disable
	cap_usb	If the USB enabled: on: enable off: Disable
remarks	not have	
instance	/cgi-bin/hi3510/param.cgi?cmd=getcapability	

param.cgi?cmd=setcapability

function	Configure the equipment capability parameters	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=setcapability&-cap_cvbs=&-cap_sd=&-cap_usb=]	
parameter	cap_cvbs	If the CVBS enabled: on: enable off: Disable
	cap_sd	If the SD card enabled: on: enable off: Disable
	cap_usb	If the USB enabled: on: enable off: Disable
return	Success: contains Success Error: contains Error	
remarks	not have	
give an example	/cgi-bin/hi3510/param.cgi?cmd=setcapability&-cap_cvbs=off&-cap_sd=on&-cap_usb=on	

web/tmpfs/snap.jpg

function	Snap from IE
authority	admin, user, and guest
grammar	/web/tmpfs/snap.jpg

parameter	not have
return	snap.jpg
remarks	not have
give an example	/web/tmpfs/snap.jpg

Sysreset .cgi

function	Restore the system to the factory settings
authority	admin
grammar	/cgi-bin/hi3510/sysreset.cgi
parameter	not have
return	Success: contains Success Error: contains Error
remarks	not have
instance	/cgi-bin/hi3510/sysreset.cgi

Sysreboot.cgi

function	Restart the system
authority	admin
grammar	/cgi-bin/hi3510/sysreboot.cgi
parameter	not have
return	Success: contains Success Error: contains Error
remarks	not have
instance	/cgi-bin/hi3510/sysreboot.cgi

backup.cgi

function	Backup configuration data
authority	admin
grammar	/cgi-bin/hi3510/backup.cgi
parameter	not have
return	config_backup.bin
remarks	not have
instance	/cgi-bin/hi3510/backup.cgi

restore.cgi

function	Restore system settings	
authority	admin	
grammar	/cgi-bin/hi3510/restore.cgi[?-setting_file=]	
parameter	setting_file	System configuration file path
return	not have	
remarks	This cgi must use the post method, packing and sending the parameter profiles that backed previously to ip camera.	
give an example	<pre><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></pre>	

upgrade.cgi

function	System upgrade (dangerous, use with caution)	
authority	admin	
grammar	/cgi-bin/hi3510/upgrade.cgi[?-filename=]	
parameter	filename	The name of upgrading file
return	not have	
remarks	This cgi must use the post method to send the upgrade file to the ip camera.	
give an example	<pre><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></pre>	

Chapter 17: Log

param.cgi?cmd=logsync

function	Get log information
authority	admin
grammar	/cgi-bin/hi3510/param.cgi[?cmd=logsync]

parameter	not have
return	not have
remarks	This CGI will refresh log information. After the execution, by accessing the /log/syslog.txt to get the log content. Note: After the equipment restart, the log will be automatically cleared.
instance	/cgi-bin/hi3510/param.cgi?cmd=logsync /log/syslog.txt

param.cgi?cmd=cleanlog

function	Clear log information	
authority	admin	
grammar	/cgi-bin/hi3510/param.cgi[?cmd=cleanlog&-name=]	
parameter	name	Clear the log command name: access: Log name
return	Success: contains Success Error: contains Error	
remarks	You can use this CGI to clear the log information when there are too many logs.	
give an example	/cgi-bin/hi3510/param.cgi?cmd=cleanlog&-name=sys	

Chapter 18: Appendix

Appendix I: Equipment Type Definitions

1. Device type

To identify device types, different functions with vary devices.
ASCII code, with 32 bytes in length.

2. Field type

Two bytes per field.

The first byte represents the total field type, and the second field represents the sub type.

Field 3	Field 4
Camera Lens	PTZ Type
'S '	'Z '

3. Lens field 'S' as follows:

'e '	CMOS 720P	Brightness (0-100), saturation (0-255), contrast (0-100), hue (0-100), sharpness (0-100), Shutter (0-65535), flip up and down, left and right mirror, Wide dynamic, night vision mode. First code stream: 720P, Q720P Second code stream: Q720P, QQ720P; third code stream: QQ720P Phone picture size: Q720P, QQ720P.
'f '	CMOS 720P CMOS 960P	Brightness (0-100), saturation (0-255), contrast (0-100), hue (0-100), sharpness (0-100), Shutter (0-65535), flip up and down, left and right mirror, Wide dynamic, night vision mode. 720P (first code stream: 720P Second code stream: Q720P, QQ720P third code stream: QQ720P mobile phone picture size: Q720P, QQ720P.) 960P (first code stream: 960P Second code stream: VGA, QVGA third code stream: QVGA mobile phone picture size: VGA, QVGA.)
'g '	CMOS 1080P CMOS 720P	Brightness (0-100), saturation (0-255), contrast (0-100), hue (0-100), sharpness (0-100), Shutter (0-65535), flip up and down, left and right mirror, Wide dynamic, night vision mode. 1080P (first code stream: 1080P second code stream: Q720P, QQ720P third code stream: QQ720P mobile phone picture size: Q720P, QQ720P.) 720P (first code stream: 720P Second code stream: Q720P, QQ720P third code stream: QQ720P mobile phone picture size: Q720P, QQ720P.)
'h '	CMOS 720P WDR	Brightness (0-6), saturation (0-6), contrast (0-8), hue (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 Phone picture size: Q720P, QQ720P.
i	CMOS 1080P CMOS 720P	Brightness (0-100), saturation (0-255), contrast (0-100), hue (0-100), sharpness (0-100), Shutter (0-65535), flip up and down, left and right mirror, Wide dynamic, night vision mode. 1080P (first code stream: 1080P second code stream: Q720P, QQ720P third code stream: QQ720P mobile phone picture size: Q720P, QQ720P.) 720P (first code stream: 720P Second code stream: Q720P, QQ720P third code stream: QQ720P mobile phone picture size: Q720P, QQ720P.)
j	CMOS 1080P CMOS 720P	Brightness (0-100), saturation (0-255), contrast (0-100), hue (0-100), sharpness (0-100), Shutter (0-65535), flip up and

		down, left and right mirror, Wide dynamic, night vision mode. 1080P (first code stream: 1080P second code stream: Q720P, QQ720P third code stream: QQ720P mobile phone picture size: Q720P, QQ720P.) 720P (first code stream: 720P Second code stream: Q720P, QQ720P third code stream: QQ720P mobile phone picture size: Q720P, QQ720P.)
k	D1	Brightness (0-100), saturation (0-255), Contrast (0-100), hue (0-100), Sharp (0-100), Shutter (0-65535), flip up and down, left and right mirror, Night vision mode. First code stream: D1, CIF second code stream: CIF third code stream: CIF Phone picture size: D1.
SO	CMOS 5M	Brightness (0-100), saturation (0-255), Contrast (0-100), hue (0-100), Sharp (0-100), Shutter (0-65535), flip up and down, left and right mirror, Night vision mode. First code stream: 2560 * 1920, second code stream: 800 * 600.

4. The PTZ field 'Z'

'0'	Customize the PTZ	Up, down, left, right, up and down, cruise, left and right cruise, back to center, preset calls (up to 8). Serial port settings are not supported, and PTZ speed is not supported
'3'	485 PTZ	Up, down, left, right, pull close, pull away, preset call settings. You can set the 485 port properties.

Appendix II, Time Zone Table

Time zone field	explain
Etc/GMT-12	(GMT-12:00) West Japanese line
Pacific/Apia	(GMT-11:00) Midway Island, Samoa
Pacific/Honolulu	(GMT-10:00) Hawaii
America/Anchorage	(GMT-09:00) Alaska
America/Los_Angeles	(GMT-08:00) Pacific Time (USA and Canada)
America/Denver	(GMT-07:00), Mountain Time (USA and Canada)
America/Tegucigalpa	(GMT-07:00) Chihuahua, La Paz, Massatlan
America/Phoenix	(GMT-07:00) Arizona
America/Winnipeg	(GMT-06:00) Saskatchewan
America/Mexico_City	(GMT-06:00) Guadalajara, Mexico City, Monterey
America/Chicago	(GMT-06:00) Central Time (USA and Canada)

America/Costa_Rica	(GMT-06:00) Central America
America/Indianapolis	(GMT-05:00) Indiana (Eastern)
America/New_York	(GMT-05:00) Eastern Time (USA and Canada)
America/Bogota	(GMT-05:00) Bogota, Lima, Leo Bronku
America/Santiago	(GMT-04:00) San Diego
America/Caracas	(GMT-04:00) La Paz
America/Montreal	(GMT-04:00) Atlantic Time (Canada)
America/St_Johns	(GMT-03:30) Newfoundland
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) The Mid-Atlantic Ocean
Atlantic/Cape_Verde	(GMT-01:00) The Cape Verde Islands
Atlantic/Azores	(GMT-01:00) The Azores
Europe/Dublin	(GMT) GMT: Dublin, Edinburgh, London, Lisbon
Africa/Casablanca	(GMT) Casablanca, Monrovia, Reykjavik
Europe/Amsterdam	(GMT + 01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
Europe/Belgrade	(GMT + 01:00) Belgrade, 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, Kiev, Riga, Sofia, Tallinn, Vilnius
Asia/Jerusalem	(GMT + 02:00) Jerusalem
Asia/Baghdad	(GMT + 03:00) Baghdad
Asia/Kuwait	(GMT + 03:00) Kuwait, Riyadh
Europe/Moscow	(GMT + 03:00) Moscow, Saint Petersburg, Volgograd
Africa/Nairobi	(GMT + 03:00) Nelobi
Asia/Tehran	(GMT + 03:30) Tehran
Asia/Dubai	(GMT + 04:00) Abu Dhabi, Muscat
Asia/Baku	(GMT + 04:00), Baku, Tbilisi, Yerevan
Asia/Kabul	(GMT + 04:30) Kabul
Asia/Yekaterinburg	(GMT + 05:00) Yekaterburg
Asia/Karachi	(GMT + 05:00) Islamabad, Karachi, Tashkent
Asia/Calcutta	(GMT + 05:30) Madras, Kolcutta, Bombay, New Delhi
Asia/Katmandu	(GMT + 05:45) Kathmandu
Asia/Almaty	(GMT + 06:00) Almaty, New Siberia
Asia/Dhaka	(GMT + 06:00) Astana, Dhaka

Asia/Colombo	(GMT + 06:00) Colombo
Asia/Rangoon	(GMT + 06:30) Yangon
Asia/Bangkok	(GMT + 07:00) Bangkok, Hanoi, Jakarta
Asia/Krasnoyarsk	(GMT + 07:00) Krasnoyarsk
Asia/Hong_Kong	(GMT + 08:00) Beijing, Chongqing, Hong Kong Special Administrative Region, Urumqi
Asia/Irkutsk	(GMT + 08:00) Irkutsk, Ulaanbatu
Asia/Kuala_Lumpur	(GMT + 08:00) Kuala Lumpur, Singapore
Australia/Perth	(GMT + 08:00) Perth
Asia/Taipei	(GMT + 08:00) Taipei
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) Magadesqin, Solomon Islands, New Caledonia
Pacific/Auckland	(GMT + 12:00) Auckland, Wellington
Pacific/Fiji	(GMT + 12:00) Fiji, Kamchatka, the Marshall Islands
Pacific/Tongatapu	(GMT + 13:00) Nuku Alofa

Chapter 19: Intelligent human form

param.cgi?cmd=getsmdattr

function	Get intelligent humanoid recognition	
authority	admin	
grammar	not have	
return	smd_enable	0-Off, 1-On
give an example	/cgi-bin/hi3510/param.cgi?cmd=getsmdattr	

param.cgi?cmd=setsmdattr

function	Set up the intelligent humanoid identification	
authority	admin	
grammar	not have	
return	smd_enable	0-Off, 1-On
give an example	/cgi-bin/hi3510/param.cgi?cmd=setsmdattr&-smd_enable=1	

param.cgi?cmd=getsmdex

function	Get the box to human shape	
authority	admin	
grammar	not have	
return	smd_rect	0-Off, 1-On
give an example	/cgi-bin/hi3510/param.cgi?cmd=getsmdex	

param.cgi?cmd=setsmdex

function	Set the box that hold to human shape	
authority	admin	
grammar	not have	
return	smd_rect	0-Off, 1-On
give an example	/cgi-bin/hi3510/param.cgi?cmd=setsmdex&-smd_rect=1	

param.cgi?cmd=getmdalarm

function	Get status of linked alarm trigger	
authority	admin	
grammar	not have	
return	md_alarm_type	Off: motion detect alarm and human shape alarm will trigger a alarm separately On: linkage trigger
give an example	/cgi-bin/hi3510/param.cgi?cmd=getmdalarm&-aname=type	

param.cgi?cmd=setmdalarm

function	Set the alarm triggering	
authority	admin	
grammar	not have	
return	md_alarm_type	Off: motion detect alarm and human shape alarm will trigger a alarm separately On: linkage trigger
give an example	/cgi-bin/hi3510/param.cgi?cmd=setmdalarm&-aname=type&-switch=on	