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<b>TIPO DI DOCUMENTO:</b> Technical Specification	<b>Circolazione:</b>
<b>OGGETTO:</b> B-VIEW CGI INTERFACE SPECIFICATION	
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<b>Allegati:</b>	

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## CGI Interface Introduction

CGI listed in this file which is provided by ip camera, is one set of interface based on HTTP protocol, and the client application (it can be the webpage run on web browsers or other applications). You can make various operations on the device by this CGI.

- Cgi authentication: to access below cgi need authentication. Different cgi port need different authority: visitor,operator and admin. Authority is depend on the device setting. The Specify authentication support two way:the basic security authentication on http protocol , attached user name and password directly on cgi parameter.
- Way to visit cgi: on all the http way,all the cgi only support get and post,and upgrade.cgi and restore.cgi only support post way.

Get Example

```
<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例子:

```
<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 different reture info , cgi can divide into two way:
  - ✓ Get cgi of device status and Parameter. If success, will return txt which include device status or parameter, specify format as javascript,define every status or parameter as a virable and return,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 get failed will return as: "[Error]Get video attribution error! errcode is 0xa10e6008".
  - ✓ Set device parameter or cgi, the cgi will return txt include operate result,if success will Return"HTTP/1.0 200 OK",if failed will return the spec wrong info,as : "[Error][Data-Length:91] unrecongnized or incomplete command line." means cgi parameter have mistake.
  - ✓ Cgi can directly input on browser and test,For Example:
 

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

## param.cgi?cmd=getvideoattr

Function	Get video stream properties	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getvideoattr]	
Parameter	n/a	
Return	videomode	31: 720P_Q720P_QQ720P 32: 720P_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
	vinorm	P: 50Hz(PAL) N: 60Hz(NTSC)
	profile	0: baseline 1: mainprofile
Remarks	<ul style="list-style-type: none"> <li>• 720P resolution: 1280x720</li> <li>• Q720P resolution: 640x352</li> <li>• QQ720P resolution: 320x176</li> <li>• 960P resolution: 1280x960</li> <li>• VGA resolution: 640x480</li> <li>• QVGA resolution: 320x240</li> <li>• 1080P resolution: 1920x1080</li> <li>• D1 resolution: 704x576</li> <li>• CIF resolution: 352x288</li> </ul> <p>720P_Q720P_QQ720P: 1<sup>st</sup> stream is 720P, 2<sup>nd</sup> stream is Q720P, 3<sup>rd</sup> stream is QQ720P</p>	
Example	/cgi-bin/hi3510/param.cgi?cmd=getvideoattr	

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## param.cgi?cmd=setvideoattr

Function	Set video stream properties	
Authority	admin	
Syntax	/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_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
Return	Success / Error  Return value takes a few seconds.	
Remarks	<ul style="list-style-type: none"> <li>• 720P resolution: 1280x720</li> <li>• Q720P resolution: 640x352</li> <li>• QQ720P resolution: 320x176</li> <li>• 960P resolution: 1280x960</li> <li>• VGA resolution: 640x480</li> <li>• QVGA resolution: 320x240</li> <li>• 1080P resolution: 1920x1080</li> <li>• D1 resolution: 704x576</li> <li>• CIF resolution: 352x288</li> </ul> <p>720P_Q720P_QQ720P: 1<sup>st</sup> stream is 720P, 2<sup>nd</sup> stream is Q720P, 3<sup>rd</sup> stream is QQ720P</p>	
Example	/cgi-bin/hi3510/param.cgi?cmd=setvideoattr&-vinorm=N&-profile=1&-videomode=32	

## param.cgi?cmd=getvencattr

Function	Get device video encode parameter	
Authority	admin, user, guest	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getvencattr &-chn=]	
Parameter	chn	Stream: 11: 1 <sup>st</sup> stream 12: 2 <sup>nd</sup> stream 13: 3 <sup>rd</sup> stream
Return	bps_1, bps_2, bps_3	Bit rate
	fps_1, fps_2, fps_3	Frame rate
	gop_1, gop_2, gop_3	Prime frame interval
	brmode_1, brmode_2, brmode_3	Video encode control: 0: fixed bit rate 1: changeable bit rate
	imagegrade_1, imagegrade_2, imagegrade_3	Video encode quality
	width_1, width_2, width_3	Video width
	height_1, height_2, height_3	Video height
Remarks	Note: Suffix "_1" is the 1st stream parameters, the suffix "_2" is the 2nd stream parameters, the suffix "_3" is the 3rd stream parameters	
Example	/cgi-bin/hi3510/param.cgi?cmd=getvencattr&-chn=11	



## param.cgi?cmd=setvencattr

Function	Config device video encode parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setvencattr&-chn=&-bps=&-fps=&-brmode=&-imagegrade=&-gop=]	
Parameter	chn	Stream: 11: 1 <sup>st</sup> stream 12: 2 <sup>nd</sup> stream 13: 3 <sup>rd</sup> stream
	bps	Bit rate 720P [32 ~ 6144 kbps] 1080P [32 ~ 8192 kbps] D1 [32 ~ 2048 kbps] CIF [32 ~ 512 kbps] QCIF [32 ~ 256 kbps] VGA [32 ~ 2048 kbps] QVGA [32 ~ 512 kbps] QQVGA [32 ~ 256 kbps]
	fps	Frame rate: PAL: Range [1 ~ 25] NTSC: Range [1 ~ 30]
	brmode	Video encode control: 0: fixed bit rate 1: changeable bit rate
	imagegrade	Video encode quality [1 ~ 6] Note: The smaller the value, the better the image quality, the larger the stream control
	gop	Prime frame interval [2 ~ 150]
Return	Success / Error	
Remarks		
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	

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## param.cgi?cmd=getimageattr

Function	Get image parameters	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getimageattr]	
Parameter		
Return	brightness	Brightness 0-100
	saturation	Saturation 0-255
	contrast	Contrast 0-100
	sharpness	Sharpness 0-100
	hue	Hue 0-100
	targety	Exposure 0-255
	gamma	Gamma 0-3
	flip	Vertical mirror: on/off
	mirror	Horizontal mirror: on/off
	night	Night vision: on/off
	shutter	Shutter
	wdr	WDR: on / off
	noise	Noise filter: on / off
	gc	Night illumination 0:automatic >0: manual
aemode	Exposure mode 0: automatic 1:indoor 2: outdoor	
imgmode	Current mode 0: black and white 1: color	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getimageattr	

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## param.cgi?cmd=setimageattr

Function	Set image parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setimageattr&-image_type=&-brightness=&-saturation=&-contrast=&-hue=&-targety=&-flip=&-mirror=&-noise=&-aemode=&-imgmode=]	
Parameter	brightness	Brightness 0-100
	saturation	Saturation 0-255
	contrast	Contrast 0-100
	sharpness	Sharpness 0-100
	hue	Hue 0-100
	targety	Exposure 0-255
	gamma	Gamma 0-3
	flip	Vertical mirror: on/off
	mirror	Horizontal mirror: on/off
	night	Night vision: on/off
	shutter	Shutter
	wdr	WDR: on / off
	noise	Noise filter: on / off
	gc	Night illumination 0:automatic >0: manual
	aemode	Exposure mode 0: automatic 1: indoor 2: outdoor
imgmode	Current mode 0: black and white 1: color	
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setimageattr&-image_type=1&-brightness=1&-saturation=1&-contrast=1&-hue=1&-flip=on&-mirror=on&-noise=on&-aemode=0&-imgmode=1	

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## param.cgi?cmd=getircutattr

Function	Get IR Cut filter switching threshold
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getircutattr]
Parameter	
Return	saradc_switch_value [1-1024]
Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=getircutattr

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## param.cgi?cmd=setircutattr

Function	Get IR Cut filter switching threshold
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setircutattr&-saradc_switch_value=]
Parameter	saradc_switch_value [1-1024]
Return	Success / Error
Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=setircutattr&-saradc_switch_value=700

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## param.cgi?cmd=getoverlayattr

Function	Get OSD parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getoverlayattr&-region=]	
Parameter	region	Region 0: OSD time zone 1: OSD Name region
Return	x_[region]	OSD region x coordinate
	y_[region]	OSD region y coordinate
	w_[region]	OSD region width
	h_[region]	OSD region height
	show_[region]	0: hide 1: show
	place_[region]	0: top 1: bottom
	name_[region]	OSD name
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getoverlayattr&-region=0	

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## param.cgi?cmd=setoverlayattr

Function	Set OSD parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setoverlayattr&-region=&-show=&-name=&-place=]	
Parameter	region	0: OSD time zone 1: OSD name region
	show	0: hide 1: show
	place	0: top 1: bottom
	name	OSD name, max. 16 characters
Return	Success / Error	
Remarks	Do not apply name parameter to region 0	
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	

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**param.cgi?cmd=getmobilesnapattr**

Function	Get mobile phone image parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getmobilesnapattr]	
Parameter	No	
Return	msize	1: second bit rate biggest resolution 2: second bit rate smallest resolution
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getmobilesnapattr	



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## param.cgi?cmd=setmobilesnapattr

Function	Set mobile image parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setmobilesnapattr&-msize=]	
Parameter	msize	1: second bit rate biggest resolution 2: second bit rate smallest resolution
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setmobilesnapattr&-msize=1	

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## param.cgi?cmd=getaencattr

Function	Get audio encode parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getaencattr&-chn=]	
Parameter	chn	Channel: 11: first bitrate 12: second bitrate 13:third bitrate
Return	aeswitch_1, aeswitch_2, aeswitch_3	0: switch off 1: switch on
	aeformat_1, aeformat_2, aeformat_3	Audio encode format g711a: G711A 64Kbps g726: G726 16Kbps
Remarks	_1 first bit rate, _2 second bit rate ,_3 3rd bit rate. Audio sampling: 8K, mono: 16 bits	
Example	/cgi-bin/hi3510/param.cgi?cmd=getaencattr&-chn=11	

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## param.cgi?cmd=setaencattr

Function	Set audio encode parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setaencattr&-chn=]	
Parameter	chn	Channel: 11: first bitrate 12: second bitrate 13:third bitrate
	aeswitch	Audio encode switch 0: switch off 1: switch on
	aeformat	Audio encode format g711a: G711A 64Kbps g726: G726 16Kbps
Return	Success / Error	
Remarks	Audio sampling: 8K, mono: 16 bits 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	

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## param.cgi?cmd=getaudioinvolume

Function	Get audio-in volume
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getaudioinvolume]
Parameter	
Return	Volume [1-100]
Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=getaudioinvolume

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**param.cgi?cmd=setaudioinvolume**

Function	Set audio-in volume
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setaudioinvolume&-volume=]
Parameter	Volume [1-100]
Return	Success / Error
Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=setaudioinvolume&-volume=80

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## param.cgi?cmd=getaudiooutvolume

Function	Get audio-out volume
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getaudiooutvolume]
Parameter	
Return	ao_volume [1-100]
Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=getaudiooutvolume

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**param.cgi?cmd=setaudiooutvolume**

Function	Set audio out volume
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setaudiooutvolume&-volume=]
Parameter	Volume [1-100]
Return	Success / Error
Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=setaudiooutvolume&-volume=80

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**param.cgi?cmd=getaudiooutvolume&-volin\_type**

Function	Get audio input	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getaudiooutvolume&-volin_type]	
Parameter		
Return	volin_type	0: Line in 1: Microphone
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getaudiooutvolume	



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**param.cgi?cmd=setaudiooutvolume&-volin\_type**

Function	Get audio input	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setaudiooutvolume&-volin_type=]	
Parameter	volin_type	0: Line in 1: Microphone
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setaudiooutvolume&-volin_type=0	

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**param.cgi?cmd=requestifrm**

Function	request I frame	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=requestifrm&-chn=]	
Parameter	chn	11, 12,13
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=requestifrm&-chn=11	

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## param.cgi?cmd=getcover

Function	Get privacy mask	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getcover]	
Parameter		
Return	show_[1-4]	Mask activation 0: Off 1: On
	color_[1-4]	Color
	x_1	Horizontal position
	y_1	Vertical position
	w_1	Width
	h_1	Height
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getcover	

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## param.cgi?cmd=setcover

Function	Get privacy mask	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setcover&-show=&-region=&-color=&-x=&-y=&-w=&-h=]	
Parameter	region	[1 ~ 4]
	show	Mask activation 0: Off 1: On
	color	Color
	x	Horizontal position
	y	Vertical position
	w	Width
	h	Height
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setcover&-show=1&-region=1&-color=FFFFFF&-x=0&-y=0&-w=60&-h=60	

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## 2、 IR Configuration

### **param.cgi?cmd=getinfrared**

Function	Get IR light parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getinfrared]	
Parameter		
Return	infraredstat	IR Status: auto / open / close
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getinfrared	

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## param.cgi?cmd=setinfrared

Function	Set IR light parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setinfrared]	
Parameter		
Return	infraredstat	IR light status: auto / open / close
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setinfrared&-infraredstat=auto	

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### 3. Network

#### param.cgi?cmd=getnetattr

Function	Get network parameters	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getnetattr]	
Parameter		
Return	dhcpflag	DHCP client on: enable off: disable
	ip	IP address
	netmask	IP address
	gateway	Default gateway
	dnsstat	DNS status 0: manual 1: auto
	fdnsip	Primary DNS
	sdnsip	Secondary DNS
	macaddress	MAC address
	networktype	Network Type LAN: wired WiFi: wireless
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getnetattr	

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## param.cgi?cmd=setnetattr

Function	Set network parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setnetattr&-dhcp=&-ipaddr=&-netmask=&-gateway=&-dnsstat=&-fdnsip=&-sdnsip=]	
Parameter	dhcp	DHCP On: enable Off: disable
	ipaddr	IP address
	netmask	Subnet Mask
	gateway	Default gateway
	dnsstat	DNS status 0: Manual DNS 1: From DHCP server
	fdnsip	First DNS
	sdnsip	Second DNS
Return	Success / 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=	



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## param.cgi?cmd=gethttpport

Function	Get HTTP port	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=gethttpport]	
Parameter		
Return	httpport	HTTP port
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=gethttpport	

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## param.cgi?cmd=sethttpport

Function	Set HTTP port	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=sethttpport&-httpport=]	
Parameter	httpport	HTTP port [80~65535]
Return	Success / Error	
Remarks	When modified successfully, the device will restart automatically	
Example	/cgi-bin/hi3510/param.cgi?cmd=sethttpport&-httpport=80	

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## param.cgi?cmd=getrtspport

Function	Get RTSP and RTP port	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getrtspport]	
Parameter	No	
Return	rtspport	RTSP port
	rtpport	RTP port
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getrtspport	

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## param.cgi?cmd=setrtspport

Function	Set RTSP and RTP port	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setrtspport&-rtspport=&-rtpport=]	
Parameter	rtspport	RTSP port [80~65535]
	rtpport	RTP port [5000~8000]
Return	Success / Error	
Remarks	When modified successfully, the device will restart automatically	
Example	/cgi-bin/hi3510/param.cgi?cmd=setrtspport&-rtspport=554&-rtpport=6600	

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**param.cgi?cmd=getrtspauth**

Function	Get RTSP authentication status	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getrtspauth]	
Parameter	No	
Return	rtsp_aenable	0: off 1: on
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getrtspauth	

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## param.cgi?cmd=setrtspauth

Function	Set RTSP authentication status	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setrtspauth&-rtsp_aenable=]	
Parameter	rtsp_aenable	0: off 1: on
Return	Success / Error	
Remarks	Restart required after modification	
Example	/cgi-bin/hi3510/param.cgi?cmd=setrtspauth&-rtsp_aenable=1	

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## param.cgi?cmd=getinterip

Function	Get Internet IP Address	
Authority	admin	
Syntax	/cgi-bin/param.cgi?cmd=getinterip	
Parameter	No	
Return	interip	Example:var internetip = "220.112.14.173"
Remarks		
Example	/cgi-bin/param.cgi?cmd=getinterip	

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## param.cgi?cmd=getupnpattr

Function	Get UPNP port mapping status	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getupnpattr]	
Parameter	No	
Return	upm_enable	0: disable 1: enable
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getupnpattr	



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## param.cgi?cmd=setupnpattr

Function	Set UPNP port mapping status	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setupnpattr&-upm_enable=]	
Parameter	upm_enable	0: disable 1: enable
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setupnpattr&-upm_enable=1	

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## param.cgi?cmd=getplatformtype

Function	Get P2P platform Type	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getplatformtype]	
Parameter	No	
Return	pftype	0: hichip 3/5: TUTK
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getplatformtype	

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**param.cgi?cmd=setplatformtype**

Function	Set P2P platform Type	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setplatformtype&- pftype=]	
Parameter	pftype	0: hichip 3/5: TUTK
Return	Success / Error	
Remarks	No	
Example	/cgi-bin/hi3510/param.cgi?cmd=setplatformtype&-pftype=0	

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## param.cgi?cmd=getoplatformattr

Function	Get Hichip platform Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getoplatformattr]	
Parameter	No	
Return	op_state	status 1: online 0: offline
	op_enable	platform connection 1: on 0: off
	op_server	Server address
	op_port	Port
	op_username	Login ID
	op_passwd	password
	op_timeout	timeout
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getoplatformattr	

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## param.cgi?cmd=setplatformtype

Function	Set Hichip platform Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?setoplatformatr&-op_enable=&-op_uname=&-op_passwd=&-op_server=&-op_port=&-op_timeout=]	
Parameter	op_enable	platform connection 1: on 0: off
	op_server	Server address
	op_port	Port
	op_uname	Login ID
	op_passwd	password
	op_timeout	timeout
Return	Success / Error	
Remarks	Modified successfully, the device will automatically restart	
Example	/cgi-bin/hi3510/param.cgi?cmd=setoplatformatr&-op_enable=1&-op_uname=a&-op_passwd=b&-op_server=192.168.1.26&-op_port=12105&-op_timeout=5	

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## param.cgi?cmd=getp2pattr

Function	Get TUTK configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getp2pattr]	
Parameter	No	
Return	p2p_enable	platform connection status 1: on 0: off
	p2p_uid	UID
	p2p_server1	Server 1
	p2p_server2	Server 2
	p2p_server3	Server 3
	p2p_server4	Server 4
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getp2pattr	

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## param.cgi?cmd=setp2pattr

Function	Set TUTK configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setp2pattr&-p2p_enable=&-p2p_uid=&-p2p_server1=&-p2p_server2=&-p2p_server3=&-p2p_server4=]	
Parameter	p2p_enable	platform connection status 1:on 0:off
	p2p_uid	UID
	p2p_server1	Server 1
	p2p_server2	Server 2
	p2p_server3	Server 3
	p2p_server4	Server 4
Return	Success / Error	
Remarks	Modified successfully, the device will automatically restart	
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&	

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## param.cgi?cmd=getonvifattr

Function	Get Onvif parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getonvifattr]	
Parameter	No	
Return	ov_enable	Status 1: on 0: off
	ov_port	Port
	ov_authflag	Authority checking 1: checking 0: no checking
	ov_forbitset	0: allow time-zone, allow image param. 1: no time-zone, allow image param. 2: allow time-zone, no image param. 3: no time-zone, no image param.
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getonvifattr	



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## param.cgi?cmd=setonvifattr

Function	Set onvif parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setonvifattr&-ov_enable=&-ov_port=&-ov_authflag=&-ov_forbitset=]	
Parameter	ov_enable	Status 1:on 0:off
	ov_port	Port
	ov_authflag	Authority checking 1:checking 0:no checking
	ov_forbitset	0:allow time-zone, allow image param. 1: no time-zone, allow image param. 2: allow time-zone, no image param. 3: no time-zone, no image param.
Return	Success / Error	
Remarks	Modified successfully, the device will automatically restart	
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	Get Wifi Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getwirelessattr]	
Parameter	No	
Return	wf_enable	0: disable WIFI 1: enable WIFI
	wf_ssid	SSID max. 32 characters
	wf_auth	Encryption 0: without encryption 1: WEP 2: WPA-PSK 3: WPA2-PSK
	wf_key	Key
	wf_enc	Key type 0: TKIP 1: AES
	wf_mode	Connection mode 0: Router mode 1: Point to point mode
Remarks	No	
Example	/cgi-bin/hi3510/param.cgi?cmd=getwirelessattr	

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## param.cgi?cmd=setwirelessattr

Function	Set wifi Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setwirelessattr&-wf_enable=&-wf_ssid=&-wf_auth=&-wf_key=&-wf_enc=&-wf_mode=]	
Parameter	wf_enable	0: disable 1: enable
	wf_ssid	SSID max. 32 characters
	wf_auth	Encryption 0: without encryption 1: WEP 2: WPA-PSK 3: WPA2-PSK
	wf_key	Key
	wf_enc	Key Type 0: TKIP 1: AES
	wf_mode	Connection mode 0: Router mode 1: Point to point mode
	Return	Success / Error
Remarks	No	
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 WiFi networks	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=searchwireless]	
Parameter	No	
Return	waccess_points	The wireless network signals searched
	wchannel	Channel
	wrssi	Channel
	wessid	SSID
	wenc	Encryption mode
	wauth	Authority mode
	wnet	Connection mode (router mode, point to point mode)
	<pre>var waccess_points="2" ; &lt;- amount of networks found var wchannel=new Array(); var wrssi=new Array(); var wessid=new Array(); var wenc=new Array(); var wauth=new Array(); var wnet=new Array();  Example: 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" ;</pre>	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=searchwireless	

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## param.cgi?cmd=chkwirelessattr

Function	Send WiFi configuration for testing	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=chkwirelessattr&-wf_ssid=&-wf_auth=&-wf_key=&-wf_enc=&-wf_mode=]	
	wf_ssid	SSID max.: 32 characters
	wf_auth	Encryption mode 0: no encryption 1: WEP 2: WPA-PSK 3: WPA2-PSK
	wf_key	Key
	wf_enc	Key type 0: TKIP 1: AES
	wf_mode	Connection mode 0: Router mode 1: Point to Point mode
Return	Success / Error	
Remarks	Followed by getchkwireless	
Example	/cgi-bin/hi3510/param.cgi?cmd=chkwirelessattr&-wf_ssid=linksys&-wf_auth=3&-wf_key=1234567890&-wf_enc=0&-wf_mode=0	

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## param.cgi?cmd=getchkwireless

Function	Get WIFI test result	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getchkwireless]	
Parameter	No	
Return	chkres	Test result: 0:failure 1:success
Remarks	Apply first of param.cgi?cmd=chkwirelessattr	
Example	/cgi-bin/hi3510/param.cgi?cmd=getchkwireless	

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## 5、 DDNS

### param.cgi?cmd=getourddnsattr

Function	Get manufacturer DDNS configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getourddnsattr]	
Parameter	No	
Return	our_enable	DDNS status 0:disable 1:enable
	our_server	DDNS sever address
	our_port	Port
	our_uname	User name
	our_passwd	Password
	our_domain	Domain
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getourddnsattr	

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## param.cgi?cmd=setourddnsattr

Function	Set manufacturer DDNS configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setourddnsattr&-our_enable=&-our_server=&-our_port=&-our_uname=&-our_passwd=]	
Parameter	our_enable	DDNS status 0:disable 1:enable
	our_server	DDNS sever address
	our_port	Port
	our_uname	User name
	our_passwd	Password
Return	Success / 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	



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## param.cgi?cmd=get3thddnsattr

Function	Get 3 <sup>rd</sup> party DDNS configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=get3thddnsattr]	
Parameter	No	
Return	d3th_enable	3 <sup>rd</sup> party DDNS status 0:disable 1:enable
	d3th_service	DDNS provider: 0: dyndns.org 1: 322.org 2: dynddns.us 3: No-ip.com
	d3th_uname	Username
	d3th_passwd	Password
	d3th_domain	Domain
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=get3thddnsattr	

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## param.cgi?cmd=set3thddnsattr

Function	Set 3 <sup>rd</sup> party DDNS configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=set3thddnsattr.&-d3th_enable=&-d3th_service=&-d3th_uname=&-d3th_passwd=&-d3th_domain=]	
Parameter	d3th_enable	3 <sup>rd</sup> party DDNS status 0:disable 1:enable
	d3th_service	DDNS provider: 0: dyndns.org 1: 322.org 2: dynddns.us 3: No-ip.com
	d3th_uname	Username
	d3th_passwd	Password
	d3th_domain	Domain
Return	Success / 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=ptzctrl

Function	PTZ Control	
Authority	admin, user	
Syntax	/cgi-bin/hi3510/param.cgi?cmd=ptzctrl.cgi[&-step=&-act=&-speed=]	
Parameter	step	Step: 0: step, renew command to stop 1: step then stop
	act	control command , as: left: right: up: down: home: zoomin: zoomout: hscan: horizontal scan vscan: vertival scan stop:
	speed	PTZ speed value [1-63]
Return	Success / Error	
Remarks	Not all B-View cameras support PTZ, command set may vary	
Example	/cgi-bin/hi3510/param.cgi?cmd=ptzctrl&-step=0&-act=left&-speed=45	

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## param.cgi?cmd=preset

Function	PTZ preset	
Authority	Admin, user	
Syntax	/cgi-bin/hi3510/param.cgi?cmd=preset[&-act=&-status=&-number=]	
Parameter	act	command: goto: call preset set: set preset
	status	command: 0: clean 1: save
	number	preset #
Return	Success / Error	
Remarks	Not all B-View cameras support PTZ, command set may vary	
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	

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## param.cgi?cmd=getmotorattr

Function	Get PTZ motor configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getmotorattr]	
Parameter	No	
Return	panspeed	Horizontal speed [0-2]
	tiltspeed	Vertical speed [0-2]
	panscan	Horizontal cruise
	tiltscan	Vertical cruise
	movehome	Move home: on / off
	ptzalarmmask	Stop movement on alarm: on/off
	alarmpresetindex	Alarm preset position [1-8]
Remarks	Not all B-View cameras support PTZ, command set may vary	
Example	/cgi-bin/hi3510/param.cgi?cmd=getmotorattr	

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## param.cgi?cmd=setmotorattr

Function	Set PTZ motor configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setmotorattr&-panspeed=&-tiltspeed=&-panscan=&-tiltscan=&-movehome=&-ptzalarmmask=&-alarmpresetindex=]	
Parameter	panspeed	Horizontal speed [0-2]
	tiltspeed	Vertical speed [0-2]
	panscan	Horizontal cruise
	tiltscan	Vertical cruise
	movehome	Move home: on / off
	ptzalarmmask	Stop movement on alarm: on/off
	alarmpresetindex	Alarm preset position [1-8]
Return	Success / Error	
Remarks	Not all B-View cameras support PTZ, command set may vary.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setmotorattr&-panspeed=1&-tiltspeed=1&-panscan=1&-tiltscan=1&-movehome=on&-ptzalarmmask=on&-alarmpresetindex=1	

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## param.cgi?cmd=getptzcomattr

Function	Get PTZ Parameter	
Authority	admin, user	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getptzcomattr]	
Parameter	No	
Return	protocal	Protocol type: 0:PELCO-D 1:PELCO-P
	address	Address code (0~255)
	baud	Baud
	databit	Data bit
	stopbit	Stop bit
	check	Stop bit: 0:n 1:Odd 2:Even 3:mark 4:Space
Remarks	Not all B-View cameras support PTZ, command set may vary.	
Example	/cgi-bin/hi3510/param.cgi?cmd=getptzcomattr	

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## param.cgi?cmd=setptzcomattr

Function	Set PTZ Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setptzcomattr&-protocal=&-address=&-baud=&-databit=&-stopbit=&-check=]	
Parameter	protocal	Protocol type: 0:PELCO-D 1:PELCO-P
	address	Address code:0~255
	baud	baud: 1200、2400、4800、9600、19200、38400、57600 (one of above)
	databit	one of above:7、8 (one of above)
	stopbit	one of above:1、2 (one of above)
	check	check: 0:N/A 1:Odd 2:Even
Return	Success / Error	
Remarks	Not all B-View cameras support PTZ, command set may vary.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setptzcomattr&-protocal=0&-address=1&-baud=9600&-databit=8&-stopbit=1&-check=0	



## ptzup.cgi

Function	PTZ up (use for PTZ control on mobile view)
Authority	admin, user
Syntax	/cgi-bin/hi3510/ptzup.cgi
Parameter	No
Return	Success / Error
Remarks	Not all B-View cameras support PTZ, command set may vary.
Example	/cgi-bin/hi3510/ptzup.cgi

## ptzdown.cgi

Function	PTZ down (use for PTZ control on mobile view)
Authority	admin, user
Syntax	/cgi-bin/hi3510/ptzdown.cgi
Parameter	No
Return	Success / Error
Remarks	Not all B-View cameras support PTZ, command set may vary.
Example	/cgi-bin/hi3510/ptzdown.cgi

## ptzleft.cgi

Function	PTZ left (use for PTZ control on mobile view)
Authority	admin, user
Syntax	/cgi-bin/hi3510/ptzleft.cgi
Parameter	No
Return	Success / Error
Remarks	Not all B-View cameras support PTZ, command set may vary.
Example	/cgi-bin/hi3510/ptzleft.cgi

## ptzright.cgi

Function	control PTZ right (use for PTZ control on mobile view)
Authority	admin, user
Syntax	/cgi-bin/hi3510/ptzright.cgi
Parameter	No
Return	Success / Error
Remarks	Not all B-View cameras support PTZ, command set may vary.
Example	/cgi-bin/hi3510/ptzright.cgi

## ptzzoomin.cgi

Function	control PTZ zoom in (use for PTZ control on mobile view)
Authority	admin, user
Syntax	/cgi-bin/hi3510/ptzzoomin.cgi
Parameter	No
Return	Success / Error
Remarks	Not all B-View cameras support PTZ, command set may vary.
Example	/cgi-bin/hi3510/ptzzoomin.cgi

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## ptzzoomout.cgi

Function	control PTZ zoom out (use for PTZ control on mobile view)
Authority	admin, user
Syntax	/cgi-bin/hi3510/ptzzoomout.cgi
Parameter	No
Return	Success / Error
Remarks	Not all B-View cameras support PTZ, command set may vary.
Example	/cgi-bin/hi3510/ptzzoomout.cgi

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## 7、 Motion detection and IO alarm

### param.cgi?cmd=getmdattr

Function	Get Motion detection parameters	
Authority	admin	
Syntax	cgi-bin/hi3510/param.cgi[?cmd=getmdattr]	
Parameter	No	
Return	m[1-4]_enable	enable or disable area 1-4 motion detection: 0: disable 1: enable
	m[1-4]_x	Horizontal position
	m[1-4]_y	Vertical position
	m[1-4]_w	Width
	m[1-4]_h	Height
	m[1-4]_sensitivity	Sensitivity
Remarks	The coordinates are based on the maximum resolution.	
Example	/cgi-bin/hi3510/param.cgi?cmd=getmdattr	

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## param.cgi?cmd=setmdattr

Function	Set motion detection parameters	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setmdattr&-enable=&-s=&-name=&-x=&-y=&-w=&-h=]	
Parameter	enable	enable or disable area motion detections: 0:disable 1:enable
	s	Sensitivity [1 ~ 100]
	name	Alarm area [1 ~ 4]
	x	Horizontal position
	y	Vertical position
	w	Width
	h	Height
Return	Success / Error	
Remarks	The coordinates are based on the maximum resolution.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setmdattr&-enable=1&-s=50&-name=1&-x=0&-y=0&-w=60&-h=60	

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## param.cgi?cmd=getioattr

Function	Get IO alarm Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getioattr]	
Parameter	No	
Return	io_enable	Alarm input status 0 : disable 1 : enable
	io_flag	IO alarm mode 0 : closed 1 : open
Remarks	Not supported on all B-View cameras.	
Example	/cgi-bin/hi3510/param.cgi?cmd=getioattr	

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## param.cgi?cmd=setioattr

Function	Set IO alarm parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setioattr &-io_enable=&-io_flag=]	
Parameter	io_enable	Alarm input status 0:disable 1:enable
	io_flag	IO alarm mode 0:closed 1:open
Return	Success / Error	
Remarks	Not supported on all B-View cameras.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setioattr&-io_enable=0&-io_flag=1	

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## param.cgi?cmd=getmdalarm

Function	Get alarm relay configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getmdalarm&-aname=]	
Parameter	aname	Option name: <ul style="list-style-type: none"> <li>• email:e-mail alarm</li> <li>• emailsnap: e-mail w. snapshot attachment</li> <li>• snap: save snapshot on SD card</li> <li>• ftpsnap:save snapshot on FTP server</li> <li>• record: save video on SD card</li> <li>• ftprec:save video on FTP server</li> <li>• relay:open relay</li> <li>• server: alarm server</li> </ul>
Return	md_email_switch	e-mail alarm: on/off
	md_emailsnap_switch	e-mail alarm w. attachment: on/off
	md_snap_switch	Snapshot to SD: on/off
	md_ftpsnap_switch	Snapshot to FTP server: on/off
	md_record_switch	Record to SD: on/off
	md_ftprec_switch	Record to FTP: on/off
	md_relay_switch	Relay alarm: on/off
	md_server_switch	Alarm server
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	

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## param.cgi?cmd=setmdalarm

Function	Get alarm relay configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setmdalarm &-aname=&-switch=]	
Parameter	aname	Option name: <ul style="list-style-type: none"> <li>• email:e-mail alarm</li> <li>• emailsnap: e-mail w. snapshot attachment</li> <li>• snap: save snapshot on SD card</li> <li>• ftpsnap:save snapshot on FTP server</li> <li>• record: save video on SD card</li> <li>• ftprec:save video on FTP server</li> <li>• relay:open relay</li> <li>• server: alarm server</li> </ul>
	switch	Set value:on/off
Return	Success / 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	



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## param.cgi?cmd=getrelayattr

Function	Get relay actuation time	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getrelayattr]	
Parameter	No	
Return	time	unit (seconds) , var time="10";
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getrelayattr	

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**param.cgi?cmd=setrelayattr**

Function	Set relay actuation time	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setrelayattr&-time=]	
Parameter	time	unit (seconds) , scope[5, 10, 20, 30]
Return	Success / Error	
Remarks	No	
Example	/cgi-bin/hi3510/param.cgi?cmd=setrelayattr&-time=10	

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## param.cgi?cmd=getalarmsnapattr

Function	Get snapshot pictures	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getalarmsnapattr]	
Parameter	No	
Return	snap_count	Amount of pictures for snapshot [1-3]
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getalarmsnapattr	

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**param.cgi?cmd=setalarmsnapattr**

Function	Set snapshot pictures	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setalarmsnapattr&-snap_count=]	
Parameter	snap_count	Amount of pictures for snapshot [1-3]
Return	Success / Error	
Remarks	No	
Example	/cgi-bin/hi3510/param.cgi?cmd=setalarmsnapattr&-snap_count=2	

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## param.cgi?cmd=getalarmserverattr

Function	Get alarm server configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getalarmserverattr]	
Parameter	No	
Return	as_server	Alarm server address
	as_port	Server port [1-65535]
	as_username	Username
	as_password	Password
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getalarmserverattr	

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## param.cgi?cmd=setalarmserverattr

Function	Set alarm server configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setalarmserverattr&-as_server=&-as_port=&-as_username=&-as_password=]	
Parameter	as_server	Alarm server address
	as_port	Server port [1-65535]
	as_username	Username
	as_password	Password
Return	Success / Error	
Remarks	No	
Example	/cgi-bin/hi3510/param.cgi?cmd=setalarmserverattr&-as_server=alarm.net&-as_port=8990&-as_username=asdf&-as_password=1234	

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## param.cgi?cmd=getscheduleex

Function	Get alarm and recording schedule	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getscheduleex&-ename=]	
Parameter	ename	md: motion detection plan: scheduled recording
Return	<pre> week0=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPP week1=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPP week3=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPP week4=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPP week5=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPP week6=PPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPPPPPP PPPPPPPPPPPP </pre>	<pre> week0: Sun week1: Mon week2: Tue week3: Wed week4: Thu week5: Fri week6: Sat P: enabled N : disabled </pre>
Remarks	Each bit stands for 30 minutes, each day has 24 hours.	
Example	/cgi-bin/hi3510/param.cgi?cmd=getscheduleex&-ename=md	

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## param.cgi?cmd=getplanrecattr

Function	Get scheduled recording activation	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd= getplanrecattr]	
Parameter	No	
Return	planrec_enable	0 :disabled 1 :enabled
	planrec_time	Recoding time [15-900seconds]
	planrec_chn	Bit rate: 11, 12, 13
Remarks	Requires SD card	
Example	/cgi-bin/hi3510/param.cgi?cmd=getplanrecattr	

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## param.cgi?cmd=setplanrecattr

Function	Set scheduled recording activation	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setplanrecattr&-planrec_enable=&-planrec_time&-planrec_chn]	
Parameter	planrec_enable	0 :disabled 1 :enabled
	planrec_time	Recording time [15-900seconds]
	planrec_chn	Bit rate: 11, 12, 13
Return	Success / Error	
Remarks	Modified successfully, the device will automatically restart. Requires SD card	
Example	/cgi-bin/hi3510/param.cgi?cmd=setplanrecattr&-planrec_enable=1&-planrec_time=30&-planrec_chn=12	

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## param.cgi?cmd=relayctrl

Function	Set relay activation status	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=relayctrl&-act=]	
	act	on / off
Return	Success / Error	
Remarks	No	
Example	/cgi-bin/hi3510/param.cgi?cmd=relayctrl&-act=on	

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## param.cgi?cmd=getalarmsnapattr

Function	Get snapshot filename settings	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getalarmsnapattr]	
Parameter	No	
Return	snap_name_mode	0: time and date 1: fixed name
	snap_alarm_name	File prefix
	snap_timer_name	Timer file prefix
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getalarmsnapattr	

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## param.cgi?cmd=setalarmsnapattr

Function	Set snapshot filename settings	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setalarmsnapattr&-snap_name_mode=&-snap_alarm_name=&-snap_timer_name=]	
Parameter	snap_name_mode	0: time and date 1: fixed name
	snap_alarm_name	File prefix
	snap_timer_name	Timer file prefix
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setalarmsnapattr&-snap_name_mode=1&-snap_alarm_name=snapalarm&-snap_timer_name=snaptime	

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## 8、 User management

### param.cgi?cmd=getuserattr

Function	Get user data	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getuserattr]	
Parameter	No	
Return	at_name	username
	at_password	Password
	at_authlevel	Authority 15:admin 3:user 1:guest
Remarks	Returns data for all users, example: 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	

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## param.cgi?cmd=setuserattr

Function	Setup user	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setuserattr&-at_username=&-at_newname= &-at_password =]	
Parameter	at_username	Current user-name (admin, user, guest)
	at_newname	New user name, optional, max. 16 characters
	at_password	Password Parameter, max 16 bit
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setuserattr&-at_username=admin&-at_newname=newname&-at_password=admin	

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## param.cgi?cmd=getsetupflag

Function	Get admin user configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi?cmd=getsetupflag	
Parameter	No	
Return	name0	username
	password0	password
	authLevel0	Authority 15:admin 3:user 1:guest
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getsetupflag	



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## param.cgi?cmd=getstreamflag

Function	Get guest user configurtaion	
Authority	guest	
Syntax	/cgi-bin/hi3510/ param.cgi?cmd=getstreamflag	
Parameter	No	
Return	name2	username
	password2	password
	authLevel2	Authority 15:admin 3:user 1:guest
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getstreamflag	

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## param.cgi?cmd=getuserinfo

Function	Get current user information	
Authority	admin, user or guest	
Syntax	/cgi-bin/hi3510/param.cgi?cmd=getuserinfo	
Parameter	No	
Return	name	Username
	password	Password
	authLevel	Authority 15:admin 3:user 1:guest
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getuserinfo	

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## 9. Snapshot

### param.cgi?cmd=getsnaptimerattrex

Function	Get snapshot configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getsnaptimerattrex]	
Parameter	No	
Return	as_snap_enable	Enable or disable snapshot to SD card: 0: disable 1: enable
	as_snap_interval	Time interval, seconds[ 5-86400]
	as_email_enable	Enable or disable snapshot to e-mail: 0:disable 1:enable
	as_email_interval	Time interval, seconds[ 5-86400]
	as_ftp_enable	Enable or disable snapshot to ftp server: 0:disable 1:enable
	as_ftp_interval	Time interval, seconds[ 5-86400]
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getsnaptimerattrex	

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## param.cgi?cmd=setsnaptimerattrex

Function	Set snapshot configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setsnaptimerattrex&-as_enable=&-as_interval=&-as_type=]	
Parameter	as_enable	Enable or disable snapshot: 0:disable 1:enable
	as_interval	Time interval, seconds[ 5-86400]
	as_type	Destination snap: to SD card email: to e-mail ftp: to ftp server
Return	Success / Error	
Remarks	No	
Example	/cgi-bin/hi3510/param.cgi?cmd=setsnaptimerattrex&-as_enable=1&-as_interval=60&-as_type=snap	

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## 10、 FTP

### param.cgi?cmd=getftpattr

Function	Get FTP configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getftpattr]	
Parameter	No	
Return	ft_server	FTP server address
	ft_port	Server port
	ft_username	Username
	ft_password	Password
	ft_dirname	Path
	ft_mode	Passive mode: 0:disable 1:enable
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getftpattr	

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## param.cgi?cmd=setftpattr

Function	Set FTP configuration	
Authority	admin	
Syntax	/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	Username
	ft_password	Password
	ft_dirname	Path
	ft_mode	Passive mode: 0:disable 1:enable
Return	Success / 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	

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## param.cgi?cmd=testftp

Function	Test FTP server settings	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=testftp]	
Parameter	No	
Return	result	0:success -1:unknown error -2:no connection to server -3:username or password error -4:path error
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=testftp	

## 11、SMTP

### param.cgi?cmd=getsmtppatr

Function	Get SMTP configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getsmtppatr]	
Parameter	No	
Return	ma_server	SMTP server address
	ma_port	Server port
	ma_ssl	Encryption: 0: disable 1: SSL 2: TLS 3: STARTTLS
	ma_logintype	Authentication 1:Enable 3:disable
	ma_username	Username
	ma_password	Password
	ma_from	Sender
	ma_to	Destination
	ma_subject	Mail subject
	ma_text	Mail content
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getsmtppatr	



## param.cgi?cmd=setsmtppatr

Function	Set SMTP configuration	
Authority	admin	
Syntax	/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	SMTP server address
	ma_port	Server port
	ma_ssl	Encryption: 0: disable 1: SSL 2: TLS 3: STARTTLS
	ma_logintype	Authentication 1:Enable 3:disable
	ma_username	Username
	ma_password	Password
	ma_from	Sender
	ma_to	Destination
	ma_subject	Mail subject
	ma_text	Mail content
Return	Success / Error	
Remarks	No	
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	

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## param.cgi?cmd=testsmtp

Function	Test SMTP settings	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=smt]	
Parameter	No	
Return	result	Type 0: success -1: unknown error -2: ssl error -3: no connection to server -4: username or password error
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=testsmtp	

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## **12、 SD card**

### **param.cgi?cmd=sdfrmt**

Function	Format SD card with FAT32
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi?cmd=sdfrmt
Parameter	
Return	Format SD card success
Remarks	Requires SD card. Execution may take some time.
Example	/cgi-bin/hi3510/param.cgi?cmd=sdfrmt

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## param.cgi?cmd=sdstop

Function	Unount SD card
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi?cmd= sdstop
Parameter	No
Return	Stop SD card success
Remarks	Requires SD card. Execution may take some time.
Example	/cgi-bin/hi3510/param.cgi?cmd=sdstop

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## 13. System settings

### param.cgi?cmd=getserverinfo

Function	Get device information	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getserverinfo]	
Parameter	No	
Return	model	Device ID
	hardVersion	Hardware version
	softVersion	Software version
	webVersion	Web version
	name	Device name
	startdate	System start time
	upnpstatus	UPnP status: ok / off / failed
	facddnsstatus	Factory DDNS status: ok / off / failed
	th3ddnsstatus	3 <sup>rd</sup> party DDNS status ok / off / failed
	platformstatus	P2P platform status
	sdstatus	SD card status: out: not SD card ready: SD card ready read only: SD card is read only
sdfreespace	SD free space [KB]	
sdtotalspace	SD total space [KB]	
Remarks	No	
Example	/cgi-bin/hi3510/param.cgi?cmd=getserverinfo	

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## param.cgi?cmd=getdevtype

Function	Get serial number	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getdevtype]	
Parameter	No	
Return	devtype	Serial number
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getdevtype	

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## param.cgi?cmd=getstreamnum

Function	Get number of active streams	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getstreamnum]	
Parameter	No	
Return	stream_num	Amount of users connected
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getstreamnum	

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## param.cgi?cmd=getvendorinfo

Function	Get OEM information	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getstreamnum]	
Parameter	No	
Return	vendor	Vendor information
	product	Product information
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getstreamnum	



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## param.cgi?cmd=setvendorinfo

Function	Set OEM information
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setvendorinfo&-vendor=&-product=]
Parameter	No
Return	Success / Error
Remarks	
Example	/cgi-bin/hi3510/param.cgi?cmd=setvendorinfo&-vendor=BitronVideo&-product=AV70xx

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## param.cgi?cmd=getservertime

Function	Get time settings	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getservertime]	
Parameter	No	
Return	time	Current time: [yyyy][mm][dd][hh][mm][ss] e.g. time="20110802182638"
	timeZone	Timezone, eg timeZone="Europe/Brussels";
	dstmode	Automatic DST: on / off
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getservertime	

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## param.cgi?cmd=setservertime

Function	Set server time	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setservertime&-time=&-timezone=&-dstmode=]	
Parameter	stime	Current time: [yyyy][mm][dd][hh][mm][ss] e.g. time="20110802182638"
	timezone	Timezone, eg timeZone="Europe/Brussels", refer to attachment
	dstmode	Automatic DST: on / off
Return	Success / Error	
Remarks	DST setting is not applicable for all time zones.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setservertime&-time=2011.08.23.10.35.08&-timezone=Europe%2FBrussels&-dstmode=on	

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## param.cgi?cmd=getntpattr

Function	Get NTP configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getntpattr]	
Parameter	No	
Return	ntpenable	Enable NTP: 0/1
	ntpserver	NTP server
	ntpinterval	Sync interval [hours]
Remarks	No	
Example	/cgi-bin/hi3510/param.cgi?cmd=getntpattr	

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## param.cgi?cmd=setntpattr

Function	Set NTP configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setntpattr&-ntpenable=&-ntpserver=&-ntpinterval=]	
Parameter	ntpenable	Enable NTP: 0/1
	ntpserver	NTP server e.g.time.windows.com
	ntpinterval	Sync interval [1-24 hours]
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setntpattr&-ntpenable=1&-ntpinterval=2&-ntpserver=time.nuri.net	

121

## param.cgi?cmd=getcapability

Function	Get interface capabilities	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getcapability]	
Parameter	No	
Return	cap_cvbs	CVBS: on/off
	cap_sd	SD: on/off
	cap_usb	USB: on/off
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=getcapability	

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## param.cgi?cmd=setcapability

Function	Set interface capabilities	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setcapability&-cap_cvbs=&-cap_sd=&-cap_usb=]	
Parameter	cap_cvbs	CVBS: on/off
	cap_sd	SD: on/off
	cap_usb	USB: on/off
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=setcapability&-cap_cvbs=off&-cap_sd=on&-cap_usb=on	

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## web/tmpfs/snap.jpg

Function	Get current snapshot
Authority	admin, user, guest
Syntax	/web/tmpfs/snap.jpg
Parameter	No
Return	snap.jpg
Remarks	No
Example	/web/tmpfs/snap.jpg



121

## Sysreset.cgi

Function	Restore factory settings
Authority	admin
Syntax	/cgi-bin/hi3510/sysreset.cgi
Parameter	No
Return	Success / Error
Remarks	
Example	/cgi-bin/hi3510/sysreset.cgi

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## Sysreboot.cgi

Function	Reboot
Authority	admin
Syntax	/cgi-bin/hi3510/sysreboot.cgi
Parameter	No
Return	Success / Error
Remarks	
Example	/cgi-bin/hi3510/sysreboot.cgi

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## backup.cgi

Function	Backup device configuration
Authority	admin
Syntax	/cgi-bin/hi3510/backup.cgi
Parameter	No
Return	config_backup.bin
Remarks	File download will start.
Example	/cgi-bin/hi3510/backup.cgi

121

## restore.cgi

Function	Restore device configuration	
Authority	admin	
Syntax	/cgi-bin/hi3510/restore.cgi[?-setting_file=]	
Parameter	setting_file	Configuration file
Return	No	
Remarks	Use HTTP POST command.	
Example	<pre>&lt;form name="form6" method="post" enctype="multipart/form-data" action="cgi-bin/hi3510/restore.cgi" &gt;   &lt;input type="file" name="setting_file" &gt;   &lt;input type="submit" value="restore" &gt; &lt;/form&gt;</pre>	

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## upgrade.cgi

Function	Device firmware upgrade	
Authority	admin	
Syntax	/cgi-bin/hi3510/upgrade.cgi[?-filename=]	
Parameter	filename	Firmware filename
Return	No	
Remarks	Use HTTP POST command. Make sure you use correct file.	
Example	<pre>&lt;form name="form5" method="post" target="retframe"   enctype="multipart/form-data" action="/cgi-bin/hi3510/upgrade.cgi" &gt;   &lt;input type="file" name="setting_file" &gt;   &lt;input type="submit" value="upgrade" &gt; &lt;/form&gt;</pre>	

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## 14、 Log file

### param.cgi?cmd=logsync

Function	Get log in data
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=logsync]
Parameter	No
Return	No
Remarks	Refresh information in /log/syslog.txt. All information will be deleted after restart.
Example	/cgi-bin/hi3510/param.cgi?cmd=logsync

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## param.cgi?cmd=cleanlog

Function	clean log in info	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=cleanlog&-name=]	
Parameter	name	Select log file to delete sys: delete /log/syslog.txt.
Return	Success / Error	
Remarks		
Example	/cgi-bin/hi3510/param.cgi?cmd=cleanlog&-name=sys	

## 15、 Appendix

### Time Zones

Time Zone	Shift
Etc/GMT-12	(GMT-12:00)
Pacific/Apia	(GMT-11:00)
Pacific/Honolulu	(GMT-10:00)
America/Anchorage	(GMT-09:00)
America/Los_Angeles	(GMT-08:00)
America/Denver	(GMT-07:00)
America/Tegucigalpa	(GMT-07:00)
America/Phoenix	(GMT-07:00)
America/Winnipeg	(GMT-06:00)
America/Mexico_City	(GMT-06:00)
America/Chicago	(GMT-06:00)
America/Costa_Rica	(GMT-06:00)
America/Indianapolis	(GMT-05:00)
America/New_York	(GMT-05:00)
America/Bogota	(GMT-05:00)
America/Santiago	(GMT-04:00)
America/Caracas	(GMT-04:00)
America/Montreal	(GMT-04:00)
America/St_Johns	(GMT-03:30)
America/Thule	(GMT-03:00)
America/Buenos_Aires	(GMT-03:00)
America/Sao_Paulo	(GMT-03:00)
Atlantic/South_Georgia	(GMT-02:00)
Atlantic/Cape_Verde	(GMT-01:00)
Atlantic/Azores	(GMT-01:00)
Europe/Dublin	(GMT)
Africa/Casablanca	(GMT)
Europe/Amsterdam	(GMT+01:00)
Europe/Belgrade	(GMT+01:00)
Europe/Brussels	(GMT+01:00)
Europe/Warsaw	(GMT+01:00)
Africa/Lagos	(GMT+01:00)
Europe/Athens	(GMT+02:00)
Europe/Bucharest	(GMT+02:00)
Africa/Cairo	(GMT+02:00)
Africa/Harare	(GMT+02:00)
Europe/Helsinki	(GMT+02:00)
Asia/Jerusalem	(GMT+02:00)
Asia/Baghdad	(GMT+03:00)
Asia/Kuwait	(GMT+03:00)
Europe/Moscow	(GMT+03:00)
Africa/Nairobi	(GMT+03:00)
Asia/Tehran	(GMT+03:30)
Asia/Dubai	(GMT+04:00)
Asia/Baku	(GMT+04:00)
Asia/Kabul	(GMT+04:30)
Asia/Yekaterinburg	(GMT+05:00)
Asia/Karachi	(GMT+05:00)
Asia/Calcutta	(GMT+05:30)
Asia/Katmandu	(GMT+05:45)
Asia/Almaty	(GMT+06:00)
Asia/Dhaka	(GMT+06:00)
Asia/Colombo	(GMT+06:00)
Asia/Rangoon	(GMT+06:30)
Asia/Bangkok	(GMT+07:00)
Asia/Krasnoyarsk	(GMT+07:00)



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Asia/Hong_Kong	(GMT+08:00)
Asia/Irkutsk	(GMT+08:00)
Asia/Kuala_Lumpur	(GMT+08:00)
Australia/Perth	(GMT+08:00)
Asia/Taipei	(GMT+08:00)
Asia/Tokyo	(GMT+09:00)
Asia/Seoul	(GMT+09:00)
Asia/Yakutsk	(GMT+09:00)
Australia/Adelaide	(GMT+09:30)
Australia/Brisbane	(GMT+10:00)
Australia/Sydney	(GMT+10:00)
Pacific/Guam	(GMT+10:00)
Australia/Hobart	(GMT+10:00)
Asia/Vladivostok	(GMT+10:00)
Asia/Magadan	(GMT+11:00)
Pacific/Auckland	(GMT+12:00)
Pacific/Fiji	(GMT+12:00)
Pacific/Tongatapu	(GMT+13:00)