

## **IP Camera CGI Application Guide**

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#### **IP Camera CGI 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
```

- 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://192.168.1.88/cgi-bin/hi3510/param.cgi?cmd=getvencattr&-chn=11
```

http://192.168.1.6/cgi-bin/hi3510/param.cgi?cmd = setvencattr&-chn=11&-fps=15

http://192.168.1.6/cgi-bin/getwifi.cgi



#### 1.Video and Audio

#### param.cgi?cmd=getvideoattr

Function	Get device video property, the resolution of first second third stream and video format	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getvideoattr]	
Parameter	no	
Return	videomode	31: 1HD720P_1HDQ720P_1HDQQ720P
	vinorm	P: 50Hz(PAL)
		N: 60Hz(NTSC)
Remarks:	Note:	
	1HD720P Resolution: 1280x720	
	1HDQ720P Resolution: 640x352	
	1HDQQ720P Resolution: 320x176	
	1HD720P_1HDQ720P_1HDQQ720P: 1 <sup>st</sup> stream is 720P, 2 <sup>nd</sup> stream is	
	Q720P, 3 <sup>rd</sup> stream is QQ720P	
Example	/cgi-bin/hi3510/param.cgi?cmd=getvideoattr	

#### param.cgi?cmd=setvideoattr

Function	Set device video property,	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd= setvideoattr&-vinorm=]	
Parameter	vinorm P: 50Hz(PAL)	
	N: 60Hz(NTSC)	
	Success: Including	
	Success	
	Failed: including Error	
Return	Note:	
	CCD D1 models, PAL and NTSC can be recognized	
	automatically, vinorm settings are valid.	
	Note:	
	1HD720P Resolution: 1280x720	
	1HDQ720P Resolution: 640x352	
	1HDQQ720P Resolution: 320x176	

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	注意:		
	1HD720P_1HDQ720P_1HDQQ720P: 1st stream is 720P, 2nd stream is		
	Q720P, 3 <sup>rd</sup> stream is QQ720P m		
	Note: It takes a long time to return.		
Remarks:	Device resolution is fixed, can't be modify.		
Example	/cgi-bin/hi3510/param.cgi?cmd=setvideoattr&-vinorm=N		

#### param.cgi?cmd=getvencattr

Function	Get device video encode parameter	
Authority	admin user and guest	
Syntax	/cgi-bin/hi3510/getvencattr.cgi [?-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 or bps_3	Bit rate
	fps_1 fps_2 or fps_3	Frame rate
	gop_1、gop_2or gop_3	Prime frame interval
	brmode_1 \ brmode_2 or	Video encode control:
	brmode_3	0: fixed bit rate
		1: changeable bit rate
	imagegrade_1	Video encode quality
	imagegrade_2 or	
	imagegrade_3	
	width_1 \ width_2 or	Video width
	width_3	
	height_1 \ height_2 or	Video height
	height_3	
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/getvencattr.cgi?-chn=11	

#### param.cgi?cmd=setvencattr

Function	Config device video encode parameter	
Authority	admin	

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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: Range [32 ~ 6144 kbps]
		D1: Range [32 ~ 2048 kbps]
		CIF: Range [32 ~ 512 kbps]
		QCIF: Range [32 ~ 256 kbps]
		VGA: Range [32 ~ 2048 kbps]
		QVGA: Range [32 ~ 512 kbps]
		QQVGA: Range [32 ~ 256 kbps]
	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: Range [1 ~ 6]
		Note: The smaller the value, the better the
		image quality, the larger the stream control
	gop	Prime frame interval: Range $[2 \sim 150]$
Return	Success: including Success	
	Failure: including Error	
Remarks:	No	
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&-imagegra	de=1&-gop=50
	/cgi-bin/hi3510/param.cgi?cmd=setvencattr&-chn=11&-bps=1536&-fps=25	

## param.cgi?cmd=getimageattr

Function	Get image parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getimageattr]	

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Parameter	NO	
Return	brightness	brightness
	saturation	saturation
	contrast	contrast
	sharpness	sharpness
	hue	hue
	flip	flip
		on
		off
	mirror	Mirror
		on
		off
	night	Night
		on
		off
	shutter	shutter
	wdr	WDR
		on
		off
	gc	Night illumination, value Range [0-255]
		0 means auto adjust night illumination, > 0 means
		manual adjust .
Remarks:	Different device, different image parameter, for details, pleae refer to	
	Appendix 1 (Device Type Definition)	
Example	/cgi-bin/hi3510/param.cgi?cmd=getimageattr	

## param.cgi?cmd=setimageattr

Function	Set image parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setimageattr&-brightness=&-saturation=&-c	
	ontrast=&-hue=&-flip=&-mirror=&-scene=]	
Parameter	brightness	brightness 0-255
	saturation	saturation 0-255
	contrast	contrast 0-7
	sharpness	sharpness
	hue	hue 0-255

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	a.	a.
	flip	flip:
		on
		off
	mirror	Mirror image
		on
		off
	night	Night Mode
		on
		off
	shutter	shutter
	wdr	WDR
		on
		off
	gc	Night illumination, value Range [0-255]
		0 means auto adjust night illumination, > 0 means
		manual adjust .
Return	Success: including Success	
	Error: including Error	
Remarks:	Different device, different image parameter, for details, pleae refer to	
	Appendix 1 (Device Type Definition)	
Example	/cgi-bin/hi3510/param.cgi?cmd=setimageattr&-brightness=1&-saturation=1&-	
	contrast=1&-hue=1&-flip=on&-mirror=on&-scene=indoor&	

## param.cgi?cmd=getoverlayattr

Function	Get OSD Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	i[?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]	OSD show or not
		0: hide



		1: show
	name_[region]	OSD name
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getoverlayattr&-region=0	

#### param.cgi?cmd=setoverlayattr

Function	Set OSD Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	i[?cmd=setoverlayattr&-region=&show=&name=]
Parameter	region	Region
		0: OSD time zone
		1: OSD name region
	show OSD show or not	
		0: hide
		1: show
	name	OSD name: English only, Max.:16 characters
Return	Success: including Success	
	Error: including Error	
Remarks:	Note: region_0 time OSD region doesn't support to set name parameter	
Example	/cgi-bin/hi3510/param.cgi?cmd=setoverlayattr&-region=0&-show=0	
	/cgi-bin/hi3510/param.cgi?cmd=setoverlayattr&-region=1&-show=1&-name=I	
	PCam	

### 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:	Some devices don't support to change Property, for more details, refer	
	to Appendix1 (Device Type Definition)	
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.cg	/cgi-bin/hi3510/param.cgi[?cmd=setmobilesnapattr&-msize=]	
Parameter	msize 1: second bit rate biggest resolution		
		2: second bit rate smallest resolution	
Return	Success: including Success		
	Error: including Error		
Remarks:	Some devices don't support to change Property, for more details, refer		
	to Appendix1 (Device Type Definition)		
Example	/cgi-bin/hi3510/param.cgi?cmd=setmobilesnapattr&-msize=1		

#### 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 bit rate 12: Second bit rate 13:3 <sup>rd</sup> bit rate
Return	aeswitch_1 aeswitch_2 or aeswitch_3	Audio encode switch  0: switch off  1: switch on
	aeformat_1 \ aeformat_2 or aeformat_3	Audio encode format g711a: G711A 64Kbps g726: G726 16Kbps
Remarks:	_1 first bit rate, _2 second bit rate ,_3 3 <sup>rd</sup> bit rate. Audio sampling: 8K, mono: 16 bits wide	
Example	/cgi-bin/hi3510/param.cgi?cmd=getaencattr&-chn=11	

#### param.cgi?cmd=setaencattr

Function	Set audio encode parameter
Authority	admin

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Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setaencattr&-chn=]	
Parameter	chn	Channel: 11: first bit rate 12: Second bit rate 13:3 <sup>rd</sup> bit rate
	aeswitch	Audio encode switch  0: switch off  1: switch on
	aeformat	Audio encode format g711a: G711A 64Kbps g726: G726 16Kbps
Return	Success: including Success Error: including 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&-aeform at=g726	

#### param.cgi?cmd=getaudioinvolume

Function	Get audio volume	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getaudioinvolume]	
Parameter	no	
Return	volume Return	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getaudioinvolume	

#### param.cgi?cmd=setaudioinvolume

Function	Set audio volume	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setaudioinvolume&-volume=]	
Parameter	volume Parameter	
Return	Success: including Success	
	Error: including Error	
Remarks:	no	

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Example	/cgi-bin/hi3510/param.cgi?cmd=setaudioinvolume&-volume=80
2	, vest only mise to paramice strong section of the control of

#### param.cgi?cmd=getaudiooutvolume

Function	get audio out volume	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getaudiooutvolume]	
Parameter	no	
Return	ao_volume volume 1-100	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getaudiooutvolume	

#### param.cgi?cmd=setaudiooutvolume

Function	set audio out volume	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setaudiooutvolume&-volume=]	
Parameter	volume	volume 1-100
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=setaudiooutvolume&-volume=80	

#### 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: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=requestifrm&-chn=11	

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#### 2. IR Light control

#### param.cgi?cmd=getinfrared

Function	Get IR light parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getinfrared]	
Parameter	no	
Return	infraredstat	IR Status
		auto
		open
		close
Remarks:	Some devices don't support to this Property, for more details, refer	
	to Appendix1 (Device Type Definition)	
Example	/cgi-bin/hi3510/param.cgi?cmd=getinfrared	

#### param.cgi?cmd=setinfrared

Function	Set IR light parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setinfrared]	
Parameter	no	
Return	infraredstat	IR light status
		auto:
		open:
		close:
Remarks:	Some devices don't support to change Property, for more details, refer	
	to Appendix1 (Device Type Definition)	
Example	/cgi-bin/hi3510/param.cgi?cmd=setinfrared&-infraredstat=auto	

#### 3. Network

#### param.cgi?cmd=getnetattr

Function	Get device network parameter
Authority	admin

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Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getnetattr]	
Parameter	no	
Return	dhcpflag	Enable DHCP or not
		on: enable
		off: disable
	ip	IP address
	netmask	Subnet Mask
	gateway	gateway
	dnsstat	DNS status
		0: manually
		1: auto
	fdnsip	Primary DNS
	sdnsip	Secondary DNS
	macaddress	MAC address
	networktype	Network Type
		LAN: wired
		WiFi: wireless
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getnetattr	

## param.cgi?cmd=setnetattr

Function	Set LAN network parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	gi[?cmd=setnetattr&-dhcp=&-ipaddr=&-netmask=&-g
	ateway=&-dnsstat=&-fdi	nsip=&-sdnsip=]
Parameter	dhcp	Enable DHCP or not
		On: enable
		Off: disable
	ipaddr	IP address
	netmask	Subnet Mask
	gateway Gateway	
	dnsstat	DNS Status
		0: Manual DNS
		1: from DHCP server
	fdnsip	First DNS
	sdnsip Second DNS	



Return	Success: Including Success
	Error: Including Error
Remarks:	no
Example	/cgi-bin/hi3510/param.cgi?cmd=setnetattr&-dhcp=off&-ipaddr=192.168.1.88
	&-netmask=255.255.255.0&-gateway=192.168.1.1&-dnsstat=0&-fdnsip=192.
	168.1.1&-sdnsip=

#### param.cgi?cmd=gethttpport

Function	Get HTTP port	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=gethttpport]	
Parameter	no	
Return	httpport HTTP port	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=gethttpport	

#### param.cgi?cmd=sethttpport

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

## param.cgi?cmd=getrtspport

Function	Get RTSP port	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getrtspport]	
Parameter	no	
Return	rtspport	RTSP port
Remarks:	no	

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

#### param.cgi?cmd=setrtspport

Function	Set RTSP Port	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setrtspport&-rtspport=]	
Parameter	rtspport	RTSP port: Range [80~65535]
Return	Success: including Success	
	Error: including Error	
Remarks:	Modified successfully, the device will automatically restart	
Example	/cgi-bin/hi3510/param.cgi?cmd=setrtspport&-rtspport=554	

## param.cgi?cmd=getinterip

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

#### param.cgi?cmd=getupnpattr

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

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#### param.cgi?cmd=setupnpattr

Function	Set UPNP Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setupnpattr&-upm_enable=]	
Parameter	upm_enable Enable or disable UPNP:	
		0: disable
		1: enable
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=setupnpattr&-upm_enable=1	

#### param.cgi?cmd=getplatformtype

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

#### param.cgi?cmd=setplatformtype

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

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Example /cgi-bin/hi3510/param.cgi?cmd=setplatformtype&-pftype=0	
---	--

#### param.cgi?cmd=setoplatformattr

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

#### param.cgi?cmd=setplatformtype

Function	Set hichip platform Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.c	egi[?setoplatformattr&-op_enable=&-op_uname=&-
	op_passwd=&-op_server=&-op_port=&-op_timeout=]	
Parameter	op_enable	platform connection status
		1: on
		0: off
	op_server	Server address
	op_port	Port
	op_uname	Login ID



	op_passwd	password
	op_timeout	timeout
Return	Success: including Success	
	Error: including Error	
Remarks:	Modified successfully, the device will automatically restart	
Example	/cgi-bin/hi3510/param.cgi?cmd=setoplatformattr&-op_enable=1&-op_uname=	
	a&-op_passwd=b&-op_server=192.168.1.26&-op_port=12105&-op_timeout=5	

#### param.cgi?cmd=getp2pattr

Function	Get TUTK Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	gi[?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:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getp2pattr	

#### param.cgi?cmd=setp2pattr

Function	Set TUTK Parameter	
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

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	p2p_uid	UID
	p2p_server1	Server 1
	p2p_server2	Server 2
	p2p_server3	Server 3
	p2p_server4	Server 4
Return	Success: including Success	
	Error: including Error	
Remarks:	Modified successfully, the device will automatically restart	
Example	/cgi-bin/hi3510/param.cgi?cmd=setp2pattr&-p2p_enable=1&-p2p_uid=FLCTB	
	5ME9WAF8MPPSFFS&-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=getonvifattr

Function	Get Onvif Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	gi[?cmd=getonvifattr]
Parameter	no	
Return	ov_enable	status
		1: on
		0: off
	ov_port	Port
	ov_authflag Authority checking	
		1: checking
		0: no checking
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getonvifattr	

#### param.cgi?cmd=setonvifattr

Function	Set onvif Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setonvifattr&-ov_enable=&-ov_port=&ov_a	
	uthflag=]	
Parameter	ov_enable	status

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		1: on 0: off
	ov_port	Port
	ov_authflag	Authority checking
		1: checking
		0: no checking
Return	Success: including Succes	ss
	Error: including 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	

#### 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	Enable or disable WIFI
		0: disable WIFI
		1: enable WIFI
	wf_ssid	SSID
		Maximum: 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

#### 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	Enable or disable
		0: disable
		1: enable
	wf_ssid	SSID
		Maximum 32 characters
	wf_auth	Encryption
		0: without encryption
		1: WEP
		2: WPA-PSK
		3: WPA2-PSK
	wf_key	Key
	wf_enc	Кеу Туре
		0: TKIP
		1: AES
	wf_mode	Connection mode
		0: router mode
		1: Point to point mode
Return	Success: including Success	
	Error: including Error	
Remark	No	
Example	/cgi-bin/hi3510/param.cgi?cmd=setwirelessattr&-wf_ssid=linksys&-vnable=1&-wf_auth=2&-wf_key=1234567890&-wf_enc=0&-wf_mode	

#### param.cgi?cmd=searchwireless

Function	Search wireless
Authority	admin

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Syntax	/cgi-bin/hi3510/param.cgi[?cmd=searchwireless]	
Parameter	No	
Return	waccess_points	The wireless network signals searched
	wchannel	Channel
	wrssi	Signal strength
	wessid	SSID
	wenc	Encryption mode
	wauth	Authority mode
	wnet	Connection mode(router mode, point to point mode)
	Note:if have more WI	FI,means waccess_points >1, will reture more
	value from wchannel to	wnet except access_points, for example
	var waccess_points="2	· ·
	var wchannel=new Arra	ay();
	var wrssi=new Array();	
	var wessid=new Array();	
	var wenc=new Array();	
	var wauth=new Array();	
	var wnet=new Array();	
	wchannel[0]="6";	
	wrssi[0]="-82" ;	
	wessid[0]="Fumax wire	eless" ;
	wenc[0]="AES";	
	wauth[0]="WPA(2)-PSI	K" ;
	wnet[0]="Infra";	
	wchannel[1]="11";	
	wrssi[1]="-62"; wessid[1]="linksys";	
	wenc[1]="TKIP";	
	wauth[1]="WPA(2)-PSI	K" ;
	wnet[1]="Infra";	
Remark	No.	
Example	/cgi-bin/hi3510/param.	cgi?cmd=searchwireless



#### param.cgi?cmd=chkwirelessattr

Function	Set Parameter	
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: including Success	
	Error: including Error	
Remark	No.	
Example	/cgi-bin/hi3510/param.cgi?cmd=chkwirelessattr&-wf_ssid=linksys&-wf_	
	auth=3&-wf_key=1234567890&-wf_enc=0&-wf_mode=0	

## param.cgi?cmd=getchkwireless

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

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#### 5 DDNS

#### param.cgi?cmd=getourddnsattr

Function	Get factory DDNS Parameter		
Authority	admin		
Syntax	/cgi-bin/hi3510/param.cg	/cgi-bin/hi3510/param.cgi[?cmd=getourddnsattr]	
Parameter	no		
Return	our_enable Enable or diable DDNS:		
		0: disable	
		1: enable	
	our_service DDNS sever address		
	our_port Port		
	our_uname     User name       our_passwd     password		
	our_domain	domain	
Remarks:	no		
Example	/cgi-bin/hi3510/param.cgi?cmd=getourddnsattr		

#### param.cgi?cmd=setourddnsattr

Function	Setting manufacturer DDNS Parameter		
Authority	admin		
Syntax	/cgi-bin/hi3510/param.cg	/cgi-bin/hi3510/param.cgi[?cmd=setourddnsattr&-our_enable=&-our_service=	
	&-our_port=&-our_unan	ne=&-our_passwd=&-our_domain=]	
Parameter	our_enable	Enable or diable DDNS:	
		0: disable	
		1: enable	
	our_service DDNS sever address		
	our_port port		
	our_uname User name		
	our_passwd	password	
	our_domain	domain	
Return	Success: including Success		



	Error: including Error
Remarks:	no
Example	/cgi-bin/hi3510/param.cgi?cmd=setourddnsattr&-our_enable=1&-our_service=
	www.nwsvr.com&-our_port=80&-our_uname=user&-our_passwd=user&-our
	_domain=www.ipcamuser.com

#### param.cgi?cmd=get3thddnsattr

Function	Get 3 <sup>rd</sup> party DDNSParameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	gi[?cmd=get3thddnsattr]
Parameter	no	
Return	d3th_enable	Enable or diable3rd party DDNS:
		0: disable
		1: enable
	d3th_service	DDNS provider:
		0: dyndns.org
		1: 322.org
	2: dynddns.us	
	d3th_uname User name	
	d3th_passwd	password
	d3th_domain	domain
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=get3thddnsattr	

#### param.cgi?cmd=set3thddnsattr

Function	Set 3 <sup>rd</sup> party DDNS Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=set3thddnsattr.&-d3th_enable=&-d3th_servic	
	e=&-d3th_uname=&-d3th_passwd=&-d3th_domain=]	
Parameter	d3th_enable Enable or disable 3rd party DDNS:	
		0: disable
		1: enable
	d3th_service	DDNS provider:
		0: dyndns.org
		1: 3322.org

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		2: dynddns.us
	d3th_uname	User name
	d3th_passwd	password
	d3th_domain	domain
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=set3thddnsattr&-d3th_enable=1&-d3th_servic	
	e=1&-d3th_uname=sample&-d3th_passwd=1234&-d3th_domain=sample.dyn	
	dns.org	

#### **6 PTZ Control**

## param.cgi?cmd=ptzctrl

Function	PTZ Control		
Authority	Admin and user		
Syntax	/cgi-bin/hi3510/param.cg	/cgi-bin/hi3510/param.cgi?cmd=ptzctrl.cgi[&-step=&-act=&-speed=]	
Parameter	step	Step:	
		0: step , after re-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: including Success		
	Error: including Error		
Remarks:	Different device PTZ Parameter is different , please refer Appendix I		



Example	/cgi-bin/hi3510/param.cgi?cmd=ptzctrl&-step=0&-act=left&-speed=45
---------	---

#### param.cgi?cmd=preset

Function	PTZ preset	
Authority	Admin and user	
Syntax	/cgi-bin/hi3510/param.cg	gi?cmd=preset[&-act=&-status=&-number=]
Parameter	act	command:
		goto: call preset
		set: set preset
	status	command:
		0: clean
		1: save
	number	preset #
Return	Success: including Succe	ess
	Error: including Error	
Remarks:	Different device # of preset is different , please refer App I	
Example	/cgi-bin/hi3510/param.cgi?cmd=preset&-act=goto&-number=1	
	/cgi-bin/hi3510/param.cgi?cmd=preset&-act=set&-status=1&-number=1	

#### param.cgi?cmd=getptzcomattr

Function	Get PTZ Parameter	
Authority	Admin and user	
Syntax	/cgi-bin/hi3510/param.cg	gi[?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	check:
		0: N/A
		1: Odd
		2: Even



	3: mark	
	4: Space	
Remarks:	some device don't have this functions , please refer App I	
Example	/cgi-bin/hi3510/param.cgi?cmd=getptzcomattr	

## 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	Data bit: 7、8 (one of above)
	stopbit	Stop bit: 1、2 (one of above)
	check	check:
		0: N/A
		1: Odd
		2: Even
Return	Success: including Success	
	Error: including Error	
Remarks:	some device don't have this functions , please refer App I	
Example	/cgi-bin/hi3510/param.cgi?cmd=setptzcomattr&-protocal=0&-address=1&-bau d=9600&-databit=8&-stopbit=1&-check=0	

#### ptzup.cgi

Function	control PTZ up(use for PTZ control on mobile view)
Authority	Admin and user
Syntax	/cgi-bin/hi3510/ptzup.cgi
Parameter	no
Return	Success: including Success

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	Error: including Error
Remarks:	no
Example	/cgi-bin/hi3510/ptzup.cgi

## ptzdown.cgi

Function	control PTZ down(use for PTZ control on mobile view)
Authority	Admin and user
Syntax	/cgi-bin/hi3510/ptzdown.cgi
Parameter	no
Return	Success: including Success
	Error: including Error
Remarks:	no
Example	/cgi-bin/hi3510/ptzdown.cgi

## ptzleft.cgi

Function	control PTZ left (use for PTZ control on mobile view)
Authority	Admin and user
Syntax	/cgi-bin/hi3510/ptzleft.cgi
Parameter	no
Return	Success: including Success
	Error: including Error
Remarks:	no
Example	/cgi-bin/hi3510/ptzleft.cgi

#### ptzright.cgi

Function	control PTZ right (use for PTZ control on mobile view)
Authority	Admin and user
Syntax	/cgi-bin/hi3510/ptzright.cgi
Parameter	no
Return	Success: including Success
	Error: including Error
Remarks:	no
Example	/cgi-bin/hi3510/ptzright.cgi

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#### ptzzoomin.cgi

Function	control PTZ zoom in (use for PTZ control on mobile view)
Authority	Admin and user
Syntax	/cgi-bin/hi3510/ptzzoomin.cgi
Parameter	no
Return	Success: including Success
	Error: including Error
Remarks:	no
Example	/cgi-bin/hi3510/ptzzoomin.cgi

#### ptzzoomout.cgi

Function	control PTZ zoom out (use for PTZ control on mobile view)	
Authority	Admin and user	
Syntax	/cgi-bin/hi3510/ptzzoomout.cgi	
Parameter	no	
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/ptzzoomout.cgi	

#### 7 Motion detection and IO alarm

#### param.cgi?cmd=getmdattr

Function	Get Motion detection SetParameter	
Authority	admin	
Syntax	cgi-bin/hi3510/param.cgi[?cmd=getmdattr]	
Parameter	no	
Return	m1_enable	enable or disable Area 1 Motion Function:
		0: disable
		1: enable
	m1_x	Area 1 abscissa
	m1_y	Area 1 ordinate
	m1_w	Area 1 width



	m1_h	Area 1 height
	m1_sensitivity	Area 1 sensitivity
	m1_threshold	Area 1 threshold ,can't use now
	m2_enable	enable or disable Area 2 Motion Function:
		0: disable
		1: enable
	m2_x	Area 2 abscissa
	m2_y	Area 2 ordinate
	m2_w	Area 2 width
	m2_h	Area 2 height
	m2_sensitivity	Area 2 sensitivity
	m2_threshold	Area 2 threshold ,can't use now
	m3_enable	enable or disable Area 3 Motion Function:
		0: disable
		1: enable
	m3_x	Area 3 abscissa
	m3_y	Area 3 ordinate
	m3_w	Area 3 width
	m3_h	Area 3 height
	m3_sensitivity	Area 3 sensitivity
	m3_threshold	Area 3 threshold ,can't use now
	m4_enable	enable or disable Area 4 Motion Function:
		0: disable
		1: enable
	m4_x	Area 4 abscissa
	m4_y	Area 4 ordinate
	m4_w	Area 4 width
	m4_h	Area 4 height
	m4_sensitivity	Area 4 sensitivity
	m4_threshold	Area 4 threshold ,can't use now
Remarks:	The max coordinate and height width is base on the max resolution	
Example	/cgi-bin/hi3510/param.cgi?cmd=getmdattr	

# param.cgi?cmd=setmdattr

Function	Set motion detection Parameter	
Authority	admin	



Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setmdattr&-enable=&-s=&-name=&-x=	
	&-y=&-w=&-h=]	
Parameter	enable	enable or disable Motion Function:
		0: disable
		1: enable
	s	sensitivity: scope[0 ~ 100]
	name	Alarm area: scope[1 ~ 4]
	х	Area abscissa
	у	Area ordinate
	w	Area width
	h	Area height
Return	Success: including Success	
	Error: including Error	
Remark	The max coordinate and height width is base on the max resolution	
Example	/cgi-bin/hi3510/param.cgi?cmd=setmdattr&-enable=1&-s=50&-name=1	
	&-x=0&-y=0&-w=60&-h=60	

#### param.cgi?cmd=getioattr

Function	Get IO alarm Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getioattr]	
Parameter	N/A	
Return	io_enable	enable or disable IO alarm in:
		0: disable
		1: enable
	io_flag	IO alarm mode:
		0: close
		1: open
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getioattr	

#### param.cgi?cmd=setioattr

Function	Set IO alarm in Parameter	
Authority	admin	

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Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setioattr &-io_enable=&-io_flag=]	
Parameter	io_enable	enable or disable IO alarm in:
		0: disable
		1: enable
	io_flag	IO alarm mode:
		0: close
		1: open
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=setioattr&-io_enable=0&-io_flag=1	

## param.cgi?cmd=getmdalarm

Function	Get alarm status info	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getmdalarm&-aname=]	
Parameter	aname	Option name:
		email: E-mail alarm
		emailsnap: E-mail alarm and send snap
		snap: save snap to SD
		ftpsnap: save snap to FTP server
		record: save record to SD
		ftprec: save record to FTP server
		relay: relay out
		server: alarm server
Return	md_email_switch	enable or disable E-mail alarm Function:
		on: enable
		off: disable
	md_emailsnap_switch	enable or disable E-mail alarm Function and
		send snap:
		on: enable
		off: disable
	md_snap_switch	enable or disable save snap to SD:
		on: enable
		off: disable
	md_ ftpsnap _switch	enable or disable save snap to ftp server:



	on: enable
	off: disable
md_record_switch	enable or disable save record video to SD:
	on: enable
	off: disable
md_ftprec_switch	enable or disable save record video to FTP
	server:
	on: enable
	off: disable
md_relay_switch	enable or disable relay out:
	on: enable
	off: disable
md_server_switch	enable or disable send alarm info to alarm
	server:
	on: enable
	off: disable
no	
/cgi-bin/hi3510/param.cgi?cmd=getmdalarm&-aname=email&cmd=getmdalar	
m&-aname=emailsnap&cmd=getmdalarm&-aname=ftpsnap&cmd=getmdalar	
m&-aname=snap&cmd=getmdalarm&-aname=emailrec&cmd=getmdalarm&-	
aname=record&cmd=getmdalarm&-aname=ftprec&cmd=getmdalarm&-aname	
=relay&-aname=server	
	md_ftprec_switch  md_relay_switch  md_server_switch  no /cgi-bin/hi3510/param.cgi? m&-aname=emailsnap&cm m&-aname=snap&cmd=getaname=record&cmd=getm

# param.cgi?cmd=setmdalarm

Function	Set relay Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[	?cmd=setmdalarm &-aname=&-switch=]
Parameter	aname	Option name:
		email: E-mail alarm
		emailsnap: E-mail alarm and send snap
		snap: save snap to SD
		ftpsnap: save snap to FTP server
		record: save record to SD
		ftprec: save record to FTP server
		relay: relay out
		server: alarm server



	switch	Relay value:
		on: enable
		off: disable
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=setmdalarm&-aname=email&-switch=off&cm	
	d=setmdalarm&-aname=er	nailsnap&-switch=off&cmd=setmdalarm&-aname=
	ftprec&-switch=off&cmd=setmdalarm&-aname=snap&-switch=off&cmd=set	
	mdalarm&-aname=ftpsnap	&-switch=off&cmd=setmdalarm&-aname=record&
	-switch=off&cmd=setmdal	arm&-aname=relay&-switch=off&-aname=server&
	-switch=off	

### param.cgi?cmd=getrelayattr

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

### param.cgi?cmd=setrelayattr

Function	Get relay out time	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setrelayattr&-time=]	
Parameter	time	unit (seconds), scope[5、10、20、30]
Return	Success: including Succes	SS
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi	?cmd=setrelayattr&-time=10

### param.cgi?cmd=getalarmsnapattr

Function	get snap pic quantity	

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Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getalarmsnapattr]	
Parameter	no	
Return	snap_count get snap pic quantity	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getalarmsnapattr	

### param.cgi?cmd=setalarmsnapattr

Function	get snap pic quantity	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setalarmsnapattr&-snap_count=]	
Parameter	snap_count	get snap pic quantity, Range [1,2,3]
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi	?cmd=setalarmsnapattr&-snap_count=2

### param.cgi?cmd=getscheduleex

Function	get armed alarm time and plan recording time	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	gi[?cmd=setscheduleex&-ename=]
Parameter	ename	option
		md : alarm armed
		plan : plan recording
Return	week0=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	week0: Sun week1: Mon week2: Tue week3: Wed week4: Thu week5: Fri week6: Sat P: Open N: closed

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	РРРРРР	
	week4=PPPPPPPPP	
	РРРРРРРРРРРРРР	
	РРРРРРРРРРРРРР	
	РРРРРР	
	week5=PPPPPPPPP	
	РРРРРРРРРРРРРР	
	РРРРРРРРРРРРРР	
	РРРРРР	
	week6=PPPPPPPPP	
	РРРРРРРРРРРРРРР	
	РРРРРРРРРРРРРРР	
	РРРРРР	
Remarks:	Parameter-week0 ~ -wee	k6,every Parameter have 48 bit, means 1 days 24 hrs
	recording. (every 24	hrs divide to half hr is a segment , use P or N to
	indicate if the recordin	g is open , P means open , N means close) , time start
	at 0:00.	
Example	/cgi-bin/hi3510/param.cg	i?cmd=getscheduleex&-ename=md

# param.cgi?cmd=setscheduleex

Function	get armed alarm time and	get armed alarm time and plan recording time	
Authority	admin	admin	
Syntax	/cgi-bin/hi3510/param.cg	i[?cmd=getscheduleex&-ename=&-week0=&-week1	
	=&-week2=&-week3=&-	week4=&-week5=&-week6=]	
Parameter	ename	option	
		md : alarm armed	
		plan : plan recording	
	week0	Sunday: every 24 hrs divide to half hr is a segment,	
		use P or N to indicate if the recording is open , P	
		means open, N means close	
	week1	Mon	
	week2	Tue	
	week3	Wed	
	week4	Thu	
	week5	Fri	
	week6	Sat	



Return	Success: including Success
	Error: including Error
Remarks:	Parameter-week0 ~ -week6, every Parameter have 48 bit, means 1 days 24 hrs
	recording. (every 24 hrs divide to half hr is a segment, use P or N to indicate if
	the recording is open , P means open , N means close) , time start at 0:00 .
Example	/cgi-bin/hi3510/param.cgi?cmd=getscheduleex&-ename=md&-week0=PPPPP
	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
	РРРРРРРРРРРРРРРРРРРРРРРРРРРРРРРРРРРРРР

# param.cgi?cmd=getplanrecattr

Function	Get plan recording Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd= getplanrecattr]	
Parameter	no	
Return	planrec_enable	Enable plan record or not
		0 : close
		1 : open
	planrec_time	Recoding time (15-900seconds)
	planrec_chn	Bit rate 11、12、13
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getplanrecattr	

## param.cgi?cmd=setplanrecattr

Function	Set plan recording Parameter		
Authority	admin	admin	
Syntax	/cgi-bin/hi3510/param.cg	/cgi-bin/hi3510/param.cgi[?cmd=setplanrecattr&-planrec_enable=&-planrec_ti	
	me&-planrec_chn]		
Parameter	planrec_enable Enable plan record or not		
		0 : close	
		1 : open	
	planrec_time	Recoding time (15-900seconds)	
	planrec_chn	Bit rate 11、12、13	
Return	Success: including Success		
	Error: including Error		
Remarks:	Modified successfully, the device will automatically restart		

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Example	/cgi-bin/hi3510/param.cgi?cmd=setplanrecattr&-planrec_enable=1&-planrec
	_time=30&-planrec_chn=12

### param.cgi?cmd=getalarmserverattr

Function	Get alarm server Parameter		
Authority	admin		
Syntax	/cgi-bin/hi3510/param.cg	/cgi-bin/hi3510/param.cgi[?cmd=getalarmserverattr]	
Parameter	no		
Return	as_server Alarm server address		
	as_port	Server port(1-65535)	
	as_username	User name	
	as_password	password	
Remarks:	no		
Example	/cgi-bin/hi3510/param.cgi?cmd=getalarmserverattr		

### param.cgi?cmd=setalarmserverattr

Function	Set alarm server Parameter Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	i[?cmd=setalarmserverattr&-as_server=&-as_port=&
	-as_username=&-as_pas	sword=]
Parameter	as_server Alarm server address	
	as_port	Server port(1-65535)
	as_username	User name
	as_password	password
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=setalarmserverattr&-as_server=alarm.net&-as	
	_port=8990&-as_usernam	ne=asdf&-as_password=1234

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### 8 user management

### param.cgi?cmd=getuserattr

Function	Get all user info	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.c	gi[?cmd=getuserattr]
Parameter	no	
Return	at_name username	
	at_password	password
Remarks:	Command will Return all user info, as:	
	var at_name0="admin";	
	var at_password0="admin";	
	var at_name1="user";	
	var at_password1="user";	
	var at_name2="guest";	
	var at_password2="guest";	
Example	/cgi-bin/hi3510/param.cgi?cmd=getuserattr	

#### param.cgi?cmd=setuserattr

Function	Set user management Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setuserattr&-at_username=&-at_password	
	=]	
Parameter	at_username	User Parameter,must be : admin,user,guest
	at_password	Password Parameter, max 16 bit
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=setuserattr&-at_username=admin&-at_passwo	
	rd=admin	

### param.cgi?cmd=getsetupflag

Function	Getadmin user Parameter
1 diletton	Cottainin door i didiriotor

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Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi?cmd=getsetupflag	
Parameter	no	
Return	name0 username	
	password0	password
	authLevel0	Reserve field
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getsetupflag	

# param.cgi?cmd=getstreamflag

Function	Get guest user Parameter	
Authority	Admin and guest	
Syntax	/cgi-bin/hi3510/ param.cgi?cmd=getstreamflag	
Parameter	no	
Return	name2	username
	password2	password
	authLevel2	Reserve field
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getstreamflag	

### param.cgi?cmd=getptzflag

Function	Get User Parameter		
Authority	Admin and user	Admin and user	
Syntax	/cgi-bin/hi3510/param.cgi?cmd=getptzflag		
Parameter	no		
Return	name1	username	
	password1	password	
	authLevel1	Reserve field	
Remarks:	no		
Example	/cgi-bin/hi3510/param.cgi?cmd=getptzflag		

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# param.cgi?cmd=getuserinfo

Function	Get user info		
Authority	admin user or guest	admin、user or guest	
Syntax	/cgi-bin/hi3510/param.cg	ri?cmd=getuserinfo	
Parameter	no	no	
Return	name username		
	password	password	
	authLevel	Authority	
		15: admin	
		3: user	
		1: guest	
Remarks:	no		
Example	/cgi-bin/hi3510/param.cgi?cmd=getuserinfo		

### 9 snapshot

### param.cgi?cmd=getsnaptimerattrex

Function	Get snap shot Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.c	gi[?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 (range : 1-86400)
	as_email_enable	Enable or disable snapshot to E-mail:
		0: disable
		1: enable
	as_email_interval	Time interval, seconds (range : 1-86400)
	as_ftp_enable	Enable or disable snapshot to ftp server:
		0: disable
		1: enable
	as_ftp_interval	Time interval, seconds (range: 1-86400)

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Remarks:	no
Example	/cgi-bin/hi3510/param.cgi?cmd= getsnaptimerattrex

### param.cgi?cmd=setsnaptimerattrex

Function	Set snap shot Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/pa	aram.cgi[?cmd=setsnaptimerattrex&-as_enable=&-as_interv
	al=&-as_type=]	
Parameter	as_enable	Enable or disable snapshot:
		0: disable
		1: enable
	as_interval Time interval, seconds (range : 1-86400)	
	as_type Type	
	snap: Send pic to SD card	
	email: Email, send pic to e-mail	
	ftp: Send pic to FTP alarm server	
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=setsnaptimerattrex&-as_enable=1&-as_int	
	erval=60&-as_type=snap	

#### 10 .FTP

### param.cgi?cmd=getftpattr

Function	Get FTP Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getftpattr]	
Parameter	no	
Return	ft_server	FTPserver address
	ft_port	Server port
	ft_username	username
	ft_password	password
	ft_dirname	Path

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	ft_mode	Passive mode:
		0: close
		1: open
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getftpattr	

### param.cgi?cmd=setftpattr

Function	Set FTP Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	gi[?cmd=getftpattr&-ft_server=&-ft_port=&-ft_user
	name=&-ft_password=&-	ft_dirname =&-ft_mode=]
Parameter	ft_server	FTPserver address
	ft_port	Server port
	ft_username	username
	ft_password	password
	ft_dirname	Path
	ft_mode	Passive mode:
		0: close
		1: open
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
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	Test FTP	
Authority	admin	admin	
Syntax	/cgi-bin/hi3510/	/cgi-bin/hi3510/param.cgi[?cmd=testftp]	
Parameter	no		
Return	result	Туре	
		0: succeed	

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		-1: unknown error
		-2: no connection to server
		-3: username or password error
		-4: path error
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=testftp	

#### **11.SMTP**

### param.cgi?cmd=getsmtpattr

Function	Get SMTP Parameter		
Authority	admin	admin	
Syntax	/cgi-bin/hi3510/param.	cgi[?cmd=getsmtpattr]	
Parameter	no		
Return	ma_server	SMTP server address	
	ma_port	Server port	
	ma_ssl	Enable or disable SSL:	
		0: disable	
		1: Enable	
	ma_logintype	Enable or disable authentication:	
		1: Enable	
		3: disable	
	ma_username	username	
	ma_password	password	
	ma_from sender address		
	ma_to	receiver address	
	ma_subject	Mail subject	
	ma_text	Mail content	
Remarks:	no		
Example	/cgi-bin/hi3510/param.cgi?cmd=getsmtpattr		

# param.cgi?cmd=setsmtpattr

Function	Set SMTP Parameter
Authority	admin

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Syntax	/cgi-bin/hi3510/param.c	gi[?cmd=setsmtpattr&-ma_server=&-ma_port=&-ma
	_ssl=&-ma_logintype=a	&-ma_username=&-ma_password=&-ma_from=&-m
	a_to=&-ma_subject=&-ma_text=]	
Parameter	ma_server	SMTP server address
	ma_port	Server port
	ma_ssl	Enable or disable SSL:
		0: disable
		1: Enable
	ma_logintype	Enable or disable authentication:
		1: Enable
		3: disable
	ma_username	username
	ma_password	password
	ma_from	sender address
	ma_to	receiver address
	ma_subject	Mail subject
	ma_text	Mail content
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=setsmtpattr&-ma_server=stmp.sdf.com&-m	
	a_from=sd1@sdf.com&-ma_to=a1@sdf.com&-ma_subject=demosubject&-	
	ma_text=demotext&-ma_logintype=1&-ma_username=demo&-ma_passwd=123456&-ma_port=25&-ma_ssl=0	

### param.cgi?cmd=testsmtp

Function	Test smtp	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=smtp]	
Parameter	no	
Return	result	Туре
		0: succeed
		-1: unknown error
		-2: no connection to server
		-3: username or password error
		-4: path error



Remarks:	no
Example	/cgi-bin/hi3510/param.cgi?cmd=testsmtp

#### 12 SDcard

### param.cgi?cmd=sdfrmt

Function	Format SD card with FAT32
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi?cmd=sdfrmt
Parameter	no
Return	Format SD Card Success
Remarks:	Should wait for long time
Example	/cgi-bin/hi3510/param.cgi?cmd=sdfrmt

### param.cgi?cmd=sdstop

Function	Stop SD card
Authority	admin
Syntax	/cgi-bin/hi3510/param.cgi?cmd= sdstop
Parameter	no
Return	Stop SD Card Success
Remarks:	Should wait for long time
Example	/cgi-bin/hi3510/param.cgi?cmd=sdstop

### 13 system setting

### param.cgi?cmd=getserverinfo

Function	get device info	get device info	
Authority	admin	admin	
Syntax	/cgi-bin/hi3510/	/cgi-bin/hi3510/param.cgi[?cmd=getserverinfo]	
Parameter	no	no	
Return	model	Device ID	

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	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:
	runtimes	Reserve
	sdstatus	SD card status
		out: without SD card
		Ready: with SD card
		Read only: SD read only
	sdfreespace	SD free space, KB
	sdtotalspace	SD total space, KB
Remarks:	no	
Example	/cgi-bin/hi3510/param.cg	gi?cmd=getserverinfo

# param.cgi?cmd=getdevtype

Function	Get device type info	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=getdevtype]	
Parameter	no	
Return	devtype Device type	
Remarks:	Please refer App I	
Example	/cgi-bin/hi3510/param.cgi?cmd=getdevtype	

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### param.cgi?cmd=getstreamnum

Function	get streaming user number		
Tunetion	get streaming user names	91	
Authority	admin	admin	
Syntax	/cgi-bin/hi3510/param.cg	/cgi-bin/hi3510/param.cgi[?cmd=getstreamnum]	
Parameter	no	no	
Return	stream_num	stream_num User #, var stream_num = "1";	
Remarks:	no	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getstreamnum		

### param.cgi?cmd=getservertime

Function	Get server time	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	[?cmd=getservertime]
Parameter	no	
Return	time Current time,	
		[yyyy][mm][dd][hh][mm][ss]
		Eg time="20110802182638";
	timeZone	Timezone, eg timeZone="Asia/Hong_Kong";
	dstmode	set summer time automatically:
		on: enable
		off: disable
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=getservertime	

### param.cgi?cmd=setservertime

Function	Set server time	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setservertime&-time=&-timezone=&-dstmod	
	e=]	
Parameter	stime	Current time,
		[yyyy][mm][dd][hh][mm][ss]
		Eg time="20110802182638";
	timezone	Timezone, eg timeZone="Asia/Hong_Kong";

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		Pls refer APP II
	dstmode	set summer time automatically:
		on: enable
		off: disable
Return	Success: including Success	
	Error: including Error	
Remarks:	Summer time adjust is not suitable for all the timezone.	
Example	/cgi-bin/hi3510/param.cgi?cmd=setservertime&-time=2011.08.23.10.35.08&-t	
	imezone=Asia%2FHong_Kong&-dstmode=off	

# param.cgi?cmd=getntpattr

Function	Get NTP Parameter		
Authority	admin	admin	
Syntax	/cgi-bin/hi3510/param.cg	i[?cmd=getntpattr]	
Parameter	no		
Return	ntpenable	Enable NTP or not:	
		1: enable	
		0: no	
	ntpserver	NTP server:	
		time.nist.gov	
		time.kriss.re.kr	
	time.windows.com		
	time.nuri.net		
	ntpinterval	Sync interval	
Remarks:	no		
Example	/cgi-bin/hi3510/param.cgi?cmd=getntpattr		

# param.cgi?cmd=setntpattr

Function	Set NTP Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=setntpattr&-ntpenable=&-ntpserver=&-ntpint	
	erval=]	
	ntpenable Enable NTP or not:	
		1: enable
		0: no

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Parameter	ntpserver	NTP server:
		time.nist.gov
		time.kriss.re.kr
		time.windows.com
		time.nuri.net
	ntpinterval	Sync interval: range (1-24 hrs)
Return	Success: including Succes	58
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=setntpattr&-ntpenable=1&-ntpinterval=2&-nt	
	pserver=time.nuri.net	

# Param.cgi?cmd=getdevices

Function	Get multi-device Parameter	
Authority	admin, use rand guest	
Syntax	/cgi-bin/hi3510/ param.cg	gi?[cmd=getdevices]
Parameter	no	
Return	d_host[0]	CH 1 device IP
	d_alias[0]	name
	d_port[0]	port
	d_username[0]	username
	d_password[0]	password
	d_host[1]	CH 2 device IP
	d_alias[1]	name
	d_port[1]	port
	d_username[1]	username
	d_password[1]	password
	d_host[2]	CH 3 device IP
	d_alias[2]	name
	d_port[2]	port
	d_username[2]	username
	d_password[2]	password

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	d_host[3]	CH 4 device IP
	d_alias[3]	name
	d_port[3]	port
	d_username[3]	username
	d_password[3]	password
	d_host[4]	CH 5 device IP
	d_alias[4]	name
	d_port[4]	port
	d_username[4]	username
	d_password[4]	password
	d_host[5]	CH 6 device IP
	d_alias[5]	name
	d_port[5]	port
	d_username[5]	username
	d_password[5]	password
	d_host[6]	CH 7 device IP
	d_alias[6]	name
	d_port[6]	port
	d_username[6]	username
	d_password[6]	password
	d_host[7]	CH 8 device IP
	d_alias[7]	name
	d_port[7]	port
	d_username[7]	username
	d_password[7]	password
Remarks:	no	
Example	/cgi-bin/hi3510/param.cg	gi?cmd=getdevices

# Param.cgi?cmd=setdevices

Function	Set multi-device Parameter	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cg	i?[cmd=setdevices&-d_number=&-d_alias=&-d_host
	=&-d_port=&-d_usernam	ne=&-d_password=&]
Parameter	d_number	number (0-7)
	d_host	IPaddress
		name

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	d_alias	port
	d_port	username
	d_username	password
	d_password	
Return	Success: including Success	
	Error: including Error	
Remarks:	no	
Example	/cgi-bin/hi3510/param.cgi?cmd=setdevices&-d_number=0&-d_alias=test1&-d_	
	host=192.168.1.7&-d_port=80&-d_username=admin&-d_password=admin&	

### param.cgi?cmd=getvendorinfo

Function	Get factory info		
Authority	admin	admin	
Syntax	/cgi-bin/hi3510/param.cg	/cgi-bin/hi3510/param.cgi[?cmd=getvendorinfo]	
Parameter	no		
Return	vendor	factory	
	product	device	
Remarks:	no		
Example	/cgi-bin/hi3510/param.cgi?cmd=getvendorinfo		

### param.cgi?cmd= setvendorinfo

Function	Set factory info		
Authority	admin	admin	
Syntax	/cgi-bin/hi3510/param.cg	/cgi-bin/hi3510/param.cgi[?cmd=setvendorinfo&-vendor=&-product=]	
Parameter	vendor	factory	
	product	device	
Return	Success: including Success		
	Error: including Error		
Remarks:	no		
Example	/cgi-bin/hi3510/param.cgi?cmd=setvendorinfo&-vendor=SE&-product=NV53		
	0		

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# mjpegstream.cgi

Function	Snap on Non-IE	
Authority	admin user and guest	
Syntax	/cgi-bin/hi3510/[mjpegstr	eam.cgi?-chn=&-usr=&-pwd=]
Parameter	chn	framerate: 11: 1 <sup>st</sup> stream
		12: 2 <sup>nd</sup> stream
		13: 3 <sup>rd</sup> stream
	usr	User name
	pwd	password
Return	auto.jpg	
Remarks:	no	
Example	/cgi-bin/hi3510/mjpegstream.cgi?-chn=12&-usr=admin&-pwd=admin	

# param.cgi?cmd= snapimage

Function	Snap on Non-IE		
Authority	admin, user and guest	admin, user and guest	
Syntax	/cgi-bin/hi3510/param.cg	i[?cmd=snapimage&-chn=]	
Parameter	chn	chn Frame rate:	
		11: 1 <sup>st</sup> stream	
		12: 2 <sup>nd</sup> stream	
		13: 3 <sup>rd</sup> stream	
Return	Success: including Succes	58	
	Error: including Error		
Remarks:	no		
Example	/cgi-bin/hi3510/param.cgi?cmd=snapimage&-chn=011		
	/web/tmpfs/snap.jpg		

### Sysreset.cgi

Function	restore to factory default setting
Authority	admin
Syntax	/cgi-bin/hi3510/sysreset.cgi
Parameter	no
Return	Success: including Success

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	Error: including Error
Remarks:	no
Example	/cgi-bin/hi3510/sysreset.cgi

# Sysreboot.cgi

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

# backup.cgi

Function	back up set data	
Authority	admin	
Syntax	/cgi-bin/hi3510/backup.cgi	
Parameter	no	
Return	config_backup.bin	
Remarks:	no	
Example	/cgi-bin/hi3510/backup.cgi	

### restore.cgi

Function	Restore to default setting		
Authority	admin		
Syntax	/cgi-bin/hi3510/restore.cgi[?-setting_file=]		
Parameter	setting_file System set file path		
Return	no		
Remarks:	This cgi must use the post way , pack the back up parameterSet file		
	then send to IP Camera		
Example	<form <="" name="form6" td=""><td>method="post" enctype="multipart/form-data"</td></form>	method="post" enctype="multipart/form-data"	
	action="cgi-bin/hi3510/restore.cgi" >		

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<input name="setting_file" type="file"/>
<input type="submit" value="restore"/>

# upgrade.cgi

Function	System upgrade (think careful before use this functions)		
Authority	admin		
Syntax	/cgi-bin/hi3510/upgrade.cgi[?-filename=]		
Parameter	filename name of the upgrade file		
Return	no		
Remarks:	This cgi must use the post way , pack the upgrade file then send to IP		
	Camera		
Example	<form <="" method="post" name="form5" target="retframe" td=""></form>		
	enctype="multipart/form-data" action="cgi-bin/hi3510/upgrade.cgi" >		
	<input name="setting_file" type="file"/>		
	<input type="submit" value="upgrade"/>		

### 14 Log in

# param.cgi?cmd=logsync

Function	Get log in data	
Authority	admin	
Syntax	/cgi-bin/hi3510/param.cgi[?cmd=logsync]	
Parameter	no	
Return	no	
Remarks:	The CGI is refresh the log information. After the implementation, through	
	the access / log / accesslog.txt Get log in info	
	Note:when device restart , will delete all the log in info	
Example	/cgi-bin/hi3510/param.cgi?cmd=logsync	
	/log/syslog.txt	

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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 clean log in info command name	
	access: log name	
Return	Success: including Success	
	Error: including Error	
Remarks:	When have more log in info ,can use CGI clean the log in info	
Example	/cgi-bin/hi3510/param.cgi?cmd=cleanlog&-name=sys	

#### 15 Appendix

#### **Appendix I: Define of Device type**

1. Device Type

To identity the type of device, which have different function ACSII code, 32 bit.

Every Segment have 2 bit . first is the type , second is the sub-type .

Seg 3	Seg 4	
lens	Type of Pan/Tilt	
'S'	ʻZ'	

#### 3). 镜头字段 'S'

如下:

'0'	CMOS VGA	Brightness, contrast, saturation, color, indoor, outdoor,
U	CMOS VOA	
		infrared light switch, upside down, left and right image
		Main stream: VGA, QVGA, QQVGA Second stream:
		QVGA, QQVGA
'2'	CCD D1	Brightness(0-255), contrast(0-255), saturation(0-255),
		color(0-255),1st stream: D1,CIF,QCIF 2nd stream:
		CIF,QCIF 3 <sup>rd</sup> stream: QCIF
'7'	CMOS 720P	Brightness(0-255), contrast(0-7), saturation(0-255),up
		down , Flip Mirror,Shutter(0-7),sharpness (0-255)
		night mode.
		1 <sup>st</sup> stream: 720P, Q720P, QQ720P, 2 <sup>nd</sup> stream:
		Q720P, QQ720P ,3 <sup>rd</sup> stream QQ720P



		Mobile view image size: 720P, QQ720P。	
'8'	CMOS 720P WDR	Brightness(0-6), contrast(0-8), saturation(0-6),up down ,	
		Flip Mirror, Shutter (0-3) ,sharpness (0-4) ,wdr , night	
		mode.	
		1 <sup>st</sup> stream: 720P, Q720P, QQ720P, 2 <sup>nd</sup> stream:	
		Q720P, QQ720P ,3 <sup>rd</sup> stream QQ720P	
		Mobile view image size: 720P, QQ720P.	

#### 4). Seg of Pan/Tilt 'Z'

#### Example:

'0'	Pan/tilt	Up, down, left, right, up and down cruise, left and right	
	customised	cruise, back to the center position, preset call (up to	
		eight). Does not support serial port settings, do not	
		support PTZ speed	
'3'	485 Pan/tilt	Up, down, left, right, zoom in, zoom out, auto, wiper,	
		light, large iris, small iris, focus near, focus far, pre-call	
		set. Set 485 PTZ properties	

#### App II、Time Zone

Time Zone	Details
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)
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)