**YUCHENG Camhi IP Camera CGI Manual**

Catalogue

[Version Update Description 6](#_Toc528577832)

[IP Camera CGI introduce 8](#_Toc528577833)

[One,Video and audio 9](#_Toc528577834)

[Param.cgi?cmd=getaudioalarmattr 9](#_Toc528577835)

[param.cgi?cmd=getvideoattr 9](#_Toc528577836)

[param.cgi?cmd=setvideoattr 11](#_Toc528577837)

[param.cgi?cmd=getfisheyeattr 13](#_Toc528577838)

[param.cgi?cmd=setfisheyeattr 14](#_Toc528577839)

[param.cgi?cmd=getvencattr 14](#_Toc528577840)

[param.cgi?cmd=setvencattr 15](#_Toc528577841)

[param.cgi?cmd=getimageattr 16](#_Toc528577842)

[param.cgi?cmd=setimageattr 17](#_Toc528577843)

[param.cgi?cmd=getldcattr 18](#_Toc528577844)

[param.cgi?cmd=setldcattr 18](#_Toc528577845)

[param.cgi?cmd=getircutattr 19](#_Toc528577846)

[param.cgi?cmd=setircutattr 19](#_Toc528577847)

[param.cgi?cmd=getoverlayattr 19](#_Toc528577848)

[param.cgi?cmd=setoverlayattr 20](#_Toc528577849)

[param.cgi?cmd=getmobilesnapattr 20](#_Toc528577850)

[param.cgi?cmd=setmobilesnapattr 21](#_Toc528577851)

[param.cgi?cmd=getaencattr 21](#_Toc528577852)

[param.cgi?cmd=setaencattr 22](#_Toc528577853)

[param.cgi?cmd=getaudioinvolume 22](#_Toc528577854)

[param.cgi?cmd=setaudioinvolume 23](#_Toc528577855)

[param.cgi?cmd=getaudiooutvolume 23](#_Toc528577856)

[param.cgi?cmd=setaudiooutvolume 23](#_Toc528577857)

[param.cgi?cmd=requestifrm 24](#_Toc528577860)

[param.cgi?cmd=requestifrm 24](#_Toc528577861)

[param.cgi?cmd=getcover 24](#_Toc528577862)

[param.cgi?cmd=setcover 25](#_Toc528577863)

[Two,Infrared and white light control 26](#_Toc528577870)

[Param.cgi?cmd=getlampctrl 26](#_Toc528577871)

[Param.cgi?cmd=setlampctrl 27](#_Toc528577872)

[param.cgi?cmd=getinfrared 27](#_Toc528577873)

[param.cgi?cmd=setinfrared 27](#_Toc528577874)

[Three,Network 28](#_Toc528577875)

[param.cgi?cmd=getnetattr 28](#_Toc528577876)

[param.cgi?cmd=setnetattr 28](#_Toc528577877)

[param.cgi?cmd=gethttpport 29](#_Toc528577878)

[param.cgi?cmd=sethttpport 29](#_Toc528577879)

[param.cgi?cmd=getrtspport 30](#_Toc528577880)

[param.cgi?cmd=setrtspport 30](#_Toc528577881)

[param.cgi?cmd=getrtmpattr 30](#_Toc528577882)

[param.cgi?cmd=setrtspport 31](#_Toc528577883)

[param.cgi?cmd=getrtspauth 31](#_Toc528577884)

[param.cgi?cmd=setrtspauth 31](#_Toc528577885)

[param.cgi?cmd=getinterip 32](#_Toc528577886)

[param.cgi?cmd=getupnpattr 32](#_Toc528577887)

[param.cgi?cmd=setupnpattr 32](#_Toc528577888)

[param.cgi?cmd=getonvifattr 33](#_Toc528577903)

[param.cgi?cmd=setonvifattr 33](#_Toc528577904)

[Four,Wifi Wireless 34](#_Toc528577905)

[param.cgi?cmd=getwirelessattr 34](#_Toc528577906)

[param.cgi?cmd=setwirelessattr 35](#_Toc528577907)

[param.cgi?cmd=searchwireless 35](#_Toc528577908)

[param.cgi?cmd=chkwirelessattr 36](#_Toc528577909)

[param.cgi?cmd=getchkwireless 37](#_Toc528577910)

[Five,DDNS 38](#_Toc528577911)

[param.cgi?cmd=getourddnsattr 38](#_Toc528577912)

[param.cgi?cmd=setourddnsattr 38](#_Toc528577913)

[param.cgi?cmd=get3thddnsattr 39](#_Toc528577914)

[param.cgi?cmd=set3thddnsattr 39](#_Toc528577915)

[Six,PTZ control 40](#_Toc528577916)

[param.cgi?cmd=getmotorrange 40](#_Toc528577917)

[param.cgi?cmd=setmotorrange 40](#_Toc528577918)

[param.cgi?cmd=ptzctrl 41](#_Toc528577919)

[param.cgi?cmd=preset 42](#_Toc528577920)

[param.cgi?cmd=getmotorattr 42](#_Toc528577921)

[param.cgi?cmd=setmotorattr 43](#_Toc528577922)

[param.cgi?cmd=getptzcomattr 44](#_Toc528577923)

[param.cgi?cmd=setptzcomattr 44](#_Toc528577924)

[ptzup.cgi 45](#_Toc528577925)

[ptzdown.cgi 45](#_Toc528577926)

[ptzleft.cgi 45](#_Toc528577927)

[ptzright.cgi 46](#_Toc528577928)

[ptzzoomin.cgi 46](#_Toc528577929)

[ptzzoomout.cgi 46](#_Toc528577930)

 [Seven, Movement detection, I/O alarm 47](#_Toc528577931)

[param.cgi?cmd=getmdattr 47](#_Toc528577932)

[param.cgi?cmd=setmdattr 48](#_Toc528577933)

[param.cgi?cmd=getioattr 49](#_Toc528577934)

[param.cgi?cmd=setioattr 49](#_Toc528577935)

[param.cgi?cmd=getmdalarm 49](#_Toc528577936)

[param.cgi?cmd=setmdalarm 50](#_Toc528577937)

[param.cgi?cmd=getrelayattr 51](#_Toc528577938)

[param.cgi?cmd=setrelayattr 51](#_Toc528577939)

[param.cgi?cmd=getalarmsnapattr 52](#_Toc528577940)

[param.cgi?cmd=setalarmsnapattr 52](#_Toc528577941)

[param.cgi?cmd=getscheduleex 52](#_Toc528577942)

[param.cgi?cmd=setscheduleex 53](#_Toc528577943)

[param.cgi?cmd=getplanrecattr 54](#_Toc528577944)

[param.cgi?cmd=setplanrecattr 54](#_Toc528577945)

[param.cgi?cmd=relayctrl 55](#_Toc528577946)

[param.cgi?cmd=getalarmsnapattr 55](#_Toc528577947)

[param.cgi?cmd=setalarmsnapattr 56](#_Toc528577948)

[Eight,User 56](#_Toc528577959)

[param.cgi?cmd=getuserattr 56](#_Toc528577960)

[param.cgi?cmd=setuserattr 57](#_Toc528577961)

[param.cgi?cmd=getsetupflag 57](#_Toc528577962)

[param.cgi?cmd=getstreamflag 57](#_Toc528577963)

[param.cgi?cmd=getptzflag 58](#_Toc528577964)

[param.cgi?cmd=getuserinfo 58](#_Toc528577965)

[Nine,Timing capture 59](#_Toc528577966)

[param.cgi?cmd=getsnaptimerattrex 59](#_Toc528577967)

[param.cgi?cmd=setsnaptimerattrex 59](#_Toc528577968)

TEN,FTP 60

[param.cgi?cmd=getftpattr 60](#_Toc528577970)

[param.cgi?cmd=setftpattr 60](#_Toc528577971)

[param.cgi?cmd=testftp 61](#_Toc528577972)

[Eleven,SMTP 62](#_Toc528577973)

[param.cgi?cmd=getsmtpattr 62](#_Toc528577974)

[param.cgi?cmd=setsmtpattr 62](#_Toc528577975)

[param.cgi?cmd=testsmtp 63](#_Toc528577976)

[Twelve,SD Card 64](#_Toc528577977)

[param.cgi?cmd=sdfrmt 64](#_Toc528577978)

[param.cgi?cmd=sdstop 64](#_Toc528577979)

 [Thirteen,Timing restart 64](#_Toc528577980)

[Param.cgi?cmd=gettimerreboot 64](#_Toc528577981)

[Param.cgi?cmd=settimerreboot 65](#_Toc528577982)

[Fourteen,Language Settings 65](#_Toc528577983)

[param.cgi?cmd=getlanguage 65](#_Toc528577984)

[Param.cgi?cmd=setlanguage 66](#_Toc528577985)

[Fifteen,Multiple channels Settings 66](#_Toc528577986)

[param.cgi?cmd=getdevices 66](#_Toc528577987)

[Param.cgi?cmd=setdevices 67](#_Toc528577988)

[Sixteen,System settings 67](#_Toc528577989)

[param.cgi?cmd=getserverinfo 67](#_Toc528577990)

[param.cgi?cmd=getdevtype 68](#_Toc528577991)

[param.cgi?cmd=getstreamnum 69](#_Toc528577992)

[param.cgi?cmd=getservertime 69](#_Toc528577993)

[param.cgi?cmd=setservertime 69](#_Toc528577994)

[param.cgi?cmd=getntpattr 70](#_Toc528577995)

[param.cgi?cmd=setntpattr 70](#_Toc528577996)

[param.cgi?cmd=getcapability 71](#_Toc528577997)

[param.cgi?cmd=setcapability 71](#_Toc528577998)

[web/tmpfs/snap.jpg 72](#_Toc528577999)

[Sysreset.cgi 72](#_Toc528578000)

[Sysreboot.cgi 72](#_Toc528578001)

[backup.cgi 73](#_Toc528578002)

[restore.cgi 73](#_Toc528578003)

[upgrade.cgi 73](#_Toc528578004)

[Seventeen,Log 74](#_Toc528578005)

[param.cgi?cmd=logsync 74](#_Toc528578006)

[param.cgi?cmd=cleanlog 74](#_Toc528578007)

 [eighteen, appendix 75](#_Toc528578008)

 [appendix I、Device Type Definition 75](#_Toc528578009)

 [appendix II、Time zone table 76](#_Toc528578010)

 [Nineteen, Intelligent humanoid........................................................................................89](#_十九、智能人形)

 [param.cgi?cmd=getsmdattr....................................................................................90](#_param.cgi?cmd=getsmdattr)

 [param.cgi?cmd=setsmdattr....................................................................................91](#_param.cgi?cmd=setsmdattr)

 [param.cgi?cmd=getsmdex.....................................................................................91](#_param.cgi?cmd=_getsmdex)

 [param.cgi?cmd=setsmdex.....................................................................................91](#_param.cgi?cmd=_setsmdex)

 [param.cgi?cmd=getmdalarm.................................................................................91](#_param.cgi?cmd=_getmdalarm)

 [param.cgi?cmd=setmdalarm.................................................................................91](#_param.cgi?cmd=_setmdalarm)

Twenty,Night version[.........................................................................................................91](#_二十、智能人形)

 [param.cgi?cmd=getlampattrex..................................................................................91](#_param.cgi?cmd=_getlampattrex)

 [param.cgi?cmd=setlampattrex..................................................................................91](#_param.cgi?cmd=_setlampattrex)

Twenty-one [4G..................................................................................................................91](#_二十一、4G)

 [param.cgi?cmd=get4gattr.........................................................................................91](#_param.cgi?cmd=_get4gattr)

 [param.cgi?cmd=set4gattr.........................................................................................91](#_param.cgi?cmd=_set4gattr)

|  |  |  |  |
| --- | --- | --- | --- |
| 版本 | 作者 | 修改 time | 修改内容 |
| 1.0 | Himmy Ho | 2011-07-30 | First release |
| 1.1 | Franck Zhao | 2011-09-08 | 修订 |
| 1.2 | Franck Zhao | 2012-02-22 | 1. param.cgi?cmd=getimageattrparam.cgi?cmd=setimageattr增加对53xmk机型描述2. 增加了请求I帧param.cgi?cmd=requestifrm |
| 1.3 | Franck Zhao | 2012-08-01 | 1. param.cgi?cmd=chkwirelessattr增加了config check none wire parameter2. param.cgi?cmd=getchkwireless增加了get check WIFIresult |
| 1.4 | Franck Zhao | 2018-02-08 | 修订 |
|  |  |  | 1、param.cgi?cmd=getaudioalarmattr2、param.cgi?cmd=getdevices3、param.cgi?cmd=gettimerreboot4、param.cgi?cmd=getlanguage5、param.cgi?cmd=getmotorrange6、param.cgi?cmd=getlampctrl7、param.cgi?cmd=setlampctrl |
| 1.5 | Franck Zhao | 2019-11-12 | 修订 |
|  |  |  | 1、/param.cgi?cmd=getsmdattr2、/param.cgi?cmd=setsmdattr3、/param.cgi?cmd=getsmdex4、/param.cgi?cmd=setsmdex5、/param.cgi?cmd=getmdalarm5、/param.cgi?cmd=setmdalarm备注：添加5M分辨率主次码流、 Intelligent human recognition  |
| 1.6 | Franck Zhao | 2022-01-10 | 修订1、/param.cgi?cmd=getlampattrex2、/param.cgi?cmd=setlampattrex3、/param.cgi?cmd=get4gattr4、/param.cgi?cmd=set4gattr备注：添加 Night Vision Mode、4G属性及4K分辨率和编码格式等相关parameter |
| 1.7 | Himmy Ho | 2022-04-15 | 1、更新分辨率和编码格式相关parameter |

# IP Camera CGI introduction

* The cgi listed in this article is a set of http protocol based interfaces provided by ip camera. client programs (which can be web pages or other applications running on web browsers) can perform various operations on devices through cgi.
* Security authentication for cgi: The cgi listed below require security authentication when accessing them. Moreover, different cgi interfaces require different permissions, which are divided into three levels: visitor, operator, and manager. The permissions are determined by the user set on the device. The specific security authentication mechanism supports two methods: the Basic security authentication mechanism specified in the http protocol, and directly attaching a user name and password to the cgi p。
* Methods for accessing cgi: Among all http methods, the cgi listed in this article only supports get and post, and the upgrade.cgi and restore.cgi only support the post method.

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 example：

<form name="form5" method="post" target="retframe" enctype="multipart/form-data" action="cgi-bin/hi3510/upgrade.cgi" onSubmit="return upgrade()">

 <td colspan="3"><input type="file" name="setting\_file" >

 <input type="submit" value=" submit" >

</form>

* Return of cgi: Depending on the returned information, the cgi listed in this article can be divided into two types:
	+ Obtain the cgi of the device status and parameters. If the acquisition is successful, the text containing the device status or parameters will be returned in a format similar to the variable definition in javascript. Each status or parameter will be defined as a variable and returned, such as:

 var bps\_1="2048";

 var fps\_1="25";

 var gop\_1="50";

 var brmode\_1="1";

 var imagegrade\_1="1";

 var width\_1="704";

 var height\_1="576";

If the acquisition fails, an error message will be returned，such as：“[Error]Get video attribution error! errcode is 0xa10e6008”。

* + Cgi for setting device parameters or performing operations. This type of cgi returns text information containing the results of the operation，Return if successful “HTTP/1.0 200 OK”；If it fails, return specific error information，such as：“[Error][Data-Length:91] unrecongnized or incomplete command line.” Indicates that the parameters attached to the cgi are incorrect.
	+ Cgi can directly enter tests in a browser as follows：

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

User name and password can also be attached directly

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

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

# 1:Video and audio

## Param.cgi?cmd=getaudioalarmattr

|  |  |
| --- | --- |
| function | Audible alarm |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi? cmd=getaudioalarmattr |
| parameter | none |
| Return | var aa\_enable 0:close、1：open |
| var aa\_value Volume level |
| remarks | none |
| examples | /cgi-bin/hi3510/param.cgi? cmd=getaudioalarmattr |

## param.cgi?cmd=getvideoattr

|  |  |
| --- | --- |
| function | Obtain device video attributes, first, second, and third stream resolution, video format, and video encoding. |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getvideoattr] |
| parameter | none |
| Return | videomode | 17: D1\_CIF\_CIF20: CIF\_CIF\_CIF31: 720P\_Q720P\_QQ720P32: 720P\_QQ720P\_QQ720P~~33: Q720P\_Q720P\_QQ720P~~~~34: Q720P\_QQ720P\_QQ720P~~35: 720P\_D1\_CIF36: 720P\_CIF\_CIF41: 1080P\_Q720P\_QQ720P42: 1080P\_QQ720P\_QQ720P45: 1080P\_D1\_CIF46: 1080P\_CIF\_CIF47: 1080P\_QVGA48: 1080P\_720P49: 1080P\_Q720PC51: 960P\_VGA\_QVGA52: 960P\_QVGA\_QVGA53:VGA\_VGA\_QVGA54: VGA\_QVGA\_QVGA55: 960P\_D1\_CIF56: 960P\_CIF\_CIF63: 3M\_450P64: 3M\_Q720P65: 1080P\_450P66: 1080P\_Q720P67: 3M\_720P68: 3M\_Q720PC81: 4M\_450P82: 4M\_Q720P83: 4M\_1080P84: 4M\_Q720PC85: 4M\_720P101:5M\_600P102: 5M\_VGA121: 4K\_1080P122:4K\_720P123:4K\_Q720P |
| vinorm | P: 50Hz(PAL)N: 60Hz(NTSC) |
| Profile | 0: baseline1: mainprofile3: H265 mainprofile |
| var maxchn | Maximum channel number of code stream |
| wdr=0 | 0 linear1 Wide dynamic |
| remarks | Note：720P Resolution is 1280x720Q720PC Resolution is 640x360 Q720P Resolution is 640x352 QQ720P Resolution is 320x176 960P Resolution is 1280x960 450P Resolution is 800x448 VGA Resolution is 640x480 QVGA Resolution is 320x240 1080P Resolution is 1920x1080 D1 Resolution is 704x576 CIF Resolution is 352x288 3M Resolution is 2304x1296 4M Resolution is 2560x1440  5M Resolution is 2560x1920 600P Resolution is 800x600 4K Resolution is 3840x2160take care：720P\_Q720P\_QQ720P: The first bitstream resolution is 720P, the second bitstream resolution is Q720P, and the third bitstream resolution is QQ720P |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getvideoattr |

## param.cgi?cmd=setvideoattr

|  |  |
| --- | --- |
| function | Set device video properties |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setvideoattr&-vinorm=&-profile=&-videomode=] |
| parameter | vinorm | P: 50Hz(PAL)N: 60Hz(NTSC) |
| profile | 0: baseline1: mainprofile3: H265 mainprofile |
| videomode | 17: D1\_CIF\_CIF20: CIF\_CIF\_CIF31: 720P\_Q720P\_QQ720P32: 720P\_QQ720P\_QQ720P~~33: Q720P\_Q720P\_QQ720P~~~~34: Q720P\_QQ720P\_QQ720P~~35: 720P\_D1\_CIF36: 720P\_CIF\_CIF41: 1080P\_Q720P\_QQ720P42: 1080P\_QQ720P\_QQ720P45: 1080P\_D1\_CIF46: 1080P\_CIF\_CIF47: 1080P\_QVGA48: 1080P\_720P49: 1080P\_Q720PC51: 960P\_VGA\_QVGA52: 960P\_QVGA\_QVGA53:VGA\_VGA\_QVGA54: VGA\_QVGA\_QVGA55: 960P\_D1\_CIF56: 960P\_CIF\_CIF63: 3M\_450P64: 3M\_Q720P65: 1080P\_450P66: 1080P\_Q720P67: 3M\_720P68: 3M\_Q720PC81: 4M\_450P82: 4M\_Q720P83: 4M\_1080P84: 4M\_Q720PC85: 4M\_720P101:5M\_600P102: 5M\_VGA121: 4K\_1080P122:4K\_720P123:4K\_Q720P |
| Return | wdr=0 | 0 linear1 Wide dynamic |
| success：contain SuccessFailure：contain ErrorTake care：720P=1280x720Q720PC= 640x360 Q720P=640x352 QQ720P=320x176 960P=1280x960 450P=800x448 VGA=640x480 QVGA=320x240 1080P=1920x1080 D1=704x576 CIF=352x288 3M=2304x1296 4M=2560x1440 5M=2560x1920 600P= 800x600 4K=3840x2160Take care：720P\_ Q720P\_ QQ720P: The first bitstream resolution is 720P, the second bitstream resolution is Q720P, and the third bitstream resolution is QQ720PTake care： Long return time |
| remarks | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setvideoattr&-vinorm=N&-profile=1&- videomode=32&-wdr=1 |

## param.cgi?cmd=getfisheyeattr

|  |  |
| --- | --- |
| function | get鱼眼parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getfisheyeattr] |
| parameter | none |
| Return | fisheye\_flag | 0-Turn off,1-Turn on |
| fisheye\_mode | 0-吊装,1-壁装 |
| fisheye\_lens | 1. gc2033+K119
2. h65+H106A
3. imx323+K104
4. sc4236+H103A
 |
| fisheye\_xcircle | 圆心X坐标 |
| fisheye\_ycircle | 圆心Y坐标 |
| fisheye\_rcircle | 圆的半径 |
| 备注  | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getfisheyeattr |

## param.cgi?cmd=setfisheyeattr

|  |  |
| --- | --- |
| function | sets鱼眼parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setfisheyeattr] |
| parameter | none |
| Return | fisheye\_flag | 0-Turn off,1-Turn on |
| fisheye\_mode | 0-吊装,1-壁装 |
| fisheye\_lens | 1. gc2033+K119
2. h65+H106A
3. imx323+K104
4. sc4236+H103A
 |
| fisheye\_xcircle | 圆心X坐标 |
| fisheye\_ycircle | 圆心Y坐标 |
| fisheye\_rcircle | 圆的半径 |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setfisheyeattr&-fisheye\_flag=1&-fisheye\_mode=0&-fisheye\_lens=0 |

## param.cgi?cmd=getvencattr

|  |  |
| --- | --- |
| function | Obtain device video encoding parameters |
| Power | admin、user and guest |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getvencattr &-chn=] |
| parameter | chn | Code stream number:11: First code stream12: Second code stream13: Third code stream |
| Return | bps\_1、bps\_2或bps\_3 |  Code rate  |
| fps\_1、fps\_2或fps\_3 | Frame rate |
| gop\_1、gop\_2或gop\_3 | Main frame interval |
| brmode\_1、brmode\_2或brmode\_3 | Video encoding control:0: Fixed bit rate1: Variable bit rate |
| imagegrade\_,imagegrade\_2 OR imagegrade\_3 | Video coding quality |
| width\_1,width\_2 OR width\_3 | Video width |
| height\_1、height\_2或height\_3 | Video height |
| Note | Note: The suffix "\_1" refers to the first code stream parameter, the suffix "\_2" refers to the second code stream parameter, and the suffix "\_3" refers to the third code stream parameter. |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getvencattr&-chn=11 |

## param.cgi?cmd=setvencattr

|  |  |
| --- | --- |
| function | config设备视频编码parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setvencattr&-chn=&-bps=&-fps=&-brmode=&-imagegrade=&-gop=] |
| parameter | chn | 重点词汇 |
| bps |  Code rate :720P： scope [32 ~ 6144 kbps]1080P： scope [32 ~ 8192 kbps]D1：scope [32 ~ 2048 kbps]CIF： scope [32 ~ 512 kbps]QCIF： scope [32 ~ 256 kbps]VGA：scope [32 ~ 2048 kbps]QVGA：scope [32 ~ 512 kbps]QQVGA：scope [32 ~ 256 kbps]5M（2560\*1920）: scope [32-6144 kbps]600P（800\*600）: scope [32-2048 kbps] |
| fps |  Code rate :PAL： Code rate :[1 ~ 25]NTSC： Code rate :[1 ~ 30] |
| brmode | Video encoding control:0: Fixed bit rate1: Variable bit rate |
| imagegrade | Video coding quality: range [1 to 6]Note: The smaller the value, the better the image quality, and the greater the bitstream control amplitude |
| gop | Main frame interval: range [2~150] |
| parameter | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setvencattr&-chn=11&-bps=1536&-fps=25&-brmode=1&-imagegrade=1&-gop=50 |
| /cgi-bin/hi3510/param.cgi?cmd=setvencattr&-chn=12&-bps=1536&-fps=25&-brmode=1&-imagegrade=1&-gop=50 |
| /cgi-bin/hi3510/param.cgi?cmd=setvencattr&-chn=11&-bps=1536&-fps=25 |

## param.cgi?cmd=getimageattr

|  |  |
| --- | --- |
| function | getImageparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getimageattr] |
| parameter | none |
| Return | brightness | brightness |
| saturation | saturation |
| contrast | contrast ratio |
| sharpness | Sharpness |
| hue | chroma |
| targety | Exposure |
| gamma | Gamma |
| flip | Image flipping:on：Turn onoff：Turn off |
| mirror | acoustic image：on：Turn onoff：Turn off |
| night | Night mode：on：Turn onoff：Turn off |
| shutter | shutter |
| wdr | Wide dynamic：on：Turn on，off：Turn off |
| noise | Noise removal intensity (0-100, works under low light) |
| gc | Gain, Value range [0-4294967295] |
| aemode | Exposure mode, Value range [0-22]0 represents automatic, 1 represents indoor, and 2 represents outdoor. |
| imgmode | Image Priority Mode0: Frame rate first1: Illumination priority |
| display\_mode | Current mode0: Black and white mode1: Color mode |
| Note | Different devices have different image parameters. Please refer to Appendix I Device Type Definitions for details |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getimageattr |

## param.cgi?cmd=setimageattr

|  |  |
| --- | --- |
| function | Set image parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setimageattr&-image\_type=&-brightness=&-saturation=&-contrast=&-hue=&-targety=&-gamma=&-flip=&-mirror=&-noise=&-aemode=&-imgmode=] |
| parameter | brightness | Brightness |
| saturation | Saturation |
| contrast | Contrast |
| sharpness | Sharpness |
| hue | Chromaticity |
| targety | Exposure |
| gamma | Gamma |
| flip | Flip image up and down:on：Turn onoff：Turn off |
| mirror | Flip image up and down:on：Turn onoff：Turn off |
| night | Night mode:on：Turn onoff：Turn off |
| shutter | shutter |
| wdr | Wide dynamic：on：Turn onoff：Turn off |
| noise | Noise removal intensity (0-100, works under low light) |
| gc | Gain, Value range [0-4294967295] |
| aemode | Exposure mode, Value range [0-22]0 represents automatic, 1 represents indoor, and 2 represents outdoor. |
| imgmode | Image Priority Mode0: Frame rate first1: Illumination priority |
| display\_mode | Current mode0 represents black and white mode, and 1 represents color mode.(Setting parameters takes effect only in the corresponding current mode.) |
| Return | Success: Include SuccessError: contains Error |
| Note | Different equipment parameters are not completely the same. Please refer to Appendix I Equipment Type Definitions for detailsThe image parameter settings must take effect in the current mode, otherwise the settings are invalid. |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setimageattr&-image\_type=1&-brightness=1&-saturation=1&-contrast=1&-hue=1&-gamma=1&-flip=on&-mirror=on&-noise=5&-aemode=0&-imgmode=1 |

## param.cgi?cmd=getldcattr

|  |  |
| --- | --- |
| function | Obtain lens distortion values |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getldcattr] |
| parameter | None |
| Return | ldc\_ratio | Distortion value [0-511] |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getldcattr |

## param.cgi?cmd=setldcattr

|  |  |
| --- | --- |
| function | Set lens distortion values |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setldcattr&- ldc\_ratio =] |
| parameter | ldc\_ratio | Distortion value [0-511] |
| Return | Success: Include SuccessFailed: contains Error |
| 备注 | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setldcattr&- ldc\_ratio=1 |

## param.cgi?cmd=getircutattr

|  |  |
| --- | --- |
| function | Obtain IRCut switching threshold |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getircutattr] |
| parameter | none |
| Return | saradc\_switch\_value | IRCut Switching threshold [1-1024] |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getircutattr |

## param.cgi?cmd=setircutattr

|  |  |
| --- | --- |
| function | Set IRCut switching threshold |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setircutattr&-saradc\_switch\_value=] |
| parameter | saradc\_switch\_value | IRCut Switching threshold [1-1024] |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setircutattr&-saradc\_switch\_value=700 |

## param.cgi?cmd=getoverlayattr

|  |  |
| --- | --- |
| function | Obtain OSD parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getoverlayattr&-region=] |
| parameter | region | region0: OSD time zone1: OSD name area |
| Return | x\_[region] | OSD region x coordinate |
| y\_[region] | OSD region y coordinate |
| w\_[region] | OSD area width |
| h\_[region] | OSD area high |
| show\_[region] | Is the OSD displayed0: Hidden1: Display |
| place\_[region] | 0: Top1: Bottom |
| name\_[region] | OSD name |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getoverlayattr&-region=0 |

## param.cgi?cmd=setoverlayattr

|  |  |
| --- | --- |
| function | Set OSD parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setoverlayattr&-region=&-show=&-name=&-place=] |
| parameterReturn | region | region0: OSD time zone1: OSD name area |
| show | Is the OSD displayed0: Hidden1: Display |
| place | 0: Top1: Bottom |
| name | OSD name, only supported in English. Character length cannot exceed 16 |
|  | Success: Include SuccessError: contains Error |
| Note | Note: region\_ Setting the name parameter is not supported in the 0 time OSD region |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setoverlayattr&-region=0&-show=0 |
| /cgi-bin/hi3510/param.cgi?cmd=setoverlayattr&-region=1&-show=1&-name=IPCam&-place=0 |

## param.cgi?cmd=getmobilesnapattr

|  |  |
| --- | --- |
| function | Get phone picture parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getmobilesnapattr] |
| parameter | none |
| Return | msize | 1: Maximum resolution of the second code stream2: Minimum resolution of the second code stream |
| Note | Some devices do not support attribute modification. Please refer to Appendix I Device Type Definitions for details |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getmobilesnapattr |

## param.cgi?cmd=setmobilesnapattr

|  |  |
| --- | --- |
| function | Set phone picture parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setmobilesnapattr&-msize=] |
| parameter | msize | 1: Maximum resolution of the second code stream2: Minimum resolution of the second code stream |
| Return | Success: Include SuccessFailed: contains Error |
| Note | Some devices do not support attribute modification. Please refer to Appendix I Device Type Definitions for details |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setmobilesnapattr&-msize=1 |

## param.cgi?cmd=getaencattr

|  |  |
| --- | --- |
| function | Obtain audio encoding parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getaencattr&-chn=] |
| parameter | chn | Channel number:11: First code stream12: Second code stream13: Third code stream |
| Return | aeswitch\_1、aeswitch\_2或aeswitch\_3 | Whether to enable audio encoding0: Close1: ON |
| aeformat\_1、aeformat\_2或aeformat\_3 | Audio encoding formatg711a: G711A, 64Kbpsg726: G726 16Kbps |
| Note | \_ 1 is the first code stream\_ 2 is the second code stream\_ 3 is the third code stream. The audio sample rate is 8K, mono, and 16 bit wide |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getaencattr&-chn=11 |

## param.cgi?cmd=setaencattr

|  |  |
| --- | --- |
| function | Set audio encoding parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setaencattr&-chn=] |
| parameter | chn | Channel number:11: First code stream12: Second code stream13: Third code stream |
| aeswitch | Whether to enable audio encoding0: Close1: ON |
| aeformat | Audio encoding formatg711a: G711a 64Kbpsg726: G726 16Kbps |
| Return | Success: Include SuccessFailed: contains Error |
| Note | The audio sample rate is 8K, mono, and 16 bit wide. |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setaencattr&-chn=11&-aeswitch=0 |
| /cgi-bin/hi3510/param.cgi?cmd=setaencattr&-chn=12&-aeswitch=1&-aeformat=g726 |

## param.cgi?cmd=getaudioinvolume

|  |  |
| --- | --- |
| function | Get input audio information |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getaudioinvolume] |
| parameter | none |
| Return | Volume | Volume level [1-100] |
| aec | Echo cancellation 0: Off 1: On |
| var volin\_type | 0: Linear input1: Mic input |
| denoise | denoise |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getaudioinvolume |

## param.cgi?cmd=setaudioinvolume

|  |  |
| --- | --- |
| function | Set input audio information |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setaudioinvolume&-volume=] |
| parameterReturn | volume | Volume level [1-100] |
| var volin\_type | 0: Linear input1: Mic input |
|  | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setaudioinvolume&-volume=80&-volin\_type=0 |

## param.cgi?cmd=getaudiooutvolume

|  |  |
| --- | --- |
| function | Get Output Audio Volume |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getaudiooutvolume] |
| parameter | none |
| Return | ao\_volume | Volume level [1-100] |
| 备注 | none |
| 示例 | /cgi-bin/hi3510/param.cgi?cmd=getaudiooutvolume |

## param.cgi?cmd=setaudiooutvolume

|  |  |
| --- | --- |
| function | Set output audio volume |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setaudiooutvolume&-volume=] |
| parameter | volume | Volume level [1-100] |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setaudiooutvolume&-volume=80 |

## param.cgi?cmd=requestifrm

|  |  |
| --- | --- |
| function | Request the next frame as a key frame |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=requestifrm&-chn=] |
| parameter | chn | 11, 12 |
| Return | Success: Include SuccessError: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=requestifrm&-chn=11 |

## param.cgi?cmd=requestifrm

|  |  |
| --- | --- |
| function | Request the next frame as a key frame |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=requestifrm&-chn=] |
| parameter | chn | 11, 12,13 |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=requestifrm&-chn=11 |

## param.cgi?cmd=getcover

|  |  |
| --- | --- |
| function | Obtain video occlusion parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getcover] |
| parameter | none |
| Return | show\_1 | Enable area 1 video occlusion function:0: Off1: Enable |
| color\_1 | Video occlusion area - color |
| x\_1 | Horizontal coordinate of video occlusion area |
| y\_1 | Vertical coordinate of video occlusion area |
| w\_1 | Width of video occlusion area I |
| h\_1 | Height of video blocking area I |
| show\_2 | Enable area 2 video occlusion function:0: Off1: Enable |
| color\_2 | Video occlusion area II color |
| x\_2 | Video occlusion area II abscissa |
| y\_2 | Second ordinate of video occlusion area |
| w\_2 | Width of video occlusion area II |
| h\_2 | Height of video occlusion area II |
| show\_3 | Whether to enable the area three video occlusion function:0: Off1: Enable |
| color\_3 | Video occlusion area three colors |
| x\_3 | Three horizontal coordinates of video occlusion area |
| y\_3 | Three ordinates of video occlusion area |
| w\_3 | Video occlusion area three widths |
| h\_3 | Video occlusion area three heights |
| show\_4 | Whether to enable the area four video occlusion function:0: Off1: Enable |
| color\_4 | Video occlusion area four colors |
| x\_4 | Four horizontal coordinates of video occlusion area |
| y\_4 | Four vertical coordinates of video occlusion area |
| w\_3 | Video occlusion area four widths |
| h\_4 | Four heights of video occlusion area |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getcover |

## param.cgi?cmd=setcover

|  |  |
| --- | --- |
| function | sets视频遮挡parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setcover&-show=&-region=&-color=&-x=&-y=&-w=&-h=] |
| parameter | region | Video blocking area: [1~4] |
| show | Enable area video occlusion:0: Off1: Enable |
| color | Video occlusion area color |
| x | Horizontal coordinate of video occlusion area |
| y | Vertical coordinate of video occlusion area |
| w | Video occlusion area width |
| h | Height of video occlusion area |
| Return | Success: Include SuccessError: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setcover&-show=1&-region=1&-color=FFFFFF&-x=0&-y=0&-w=60&-h=60 |

## 2:Infrared and white light control

## Param.cgi?cmd=getlampctrl

|  |  |
| --- | --- |
| function | Obtain white light parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getlampctrl] |
| parameter | none |
| Return | var lampstat | Infrared lamp statusAuto: automaticOpen: forced onClose: force off |
| Note | Some models do not support this attribute. Refer to Appendix I Equipment Type Definitions for details |
| 示例 | /cgi-bin/hi3510/param.cgi?cmd=getlampctrl |

## Param.cgi?cmd=setlampctrl

|  |  |
| --- | --- |
| function | Set white light parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setlampctrl] |
| parameter | none |
| Return | var lampstat | Infrared lamp statusAuto :automaticOpen: forced onClose: force off |
| Note | Some models do not support this attribute. Refer to Appendix I Equipment Type Definitions for details |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setlampctrl&-lampstat=open |

## param.cgi?cmd=getinfrared

|  |  |
| --- | --- |
| function | Obtain infrared lamp parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getinfrared] |
| parameter | none |
| Return | infraredstat | Infrared lamp statusAuto: automaticOpen: forced onClose: force off |
| Note | Some models do not support this attribute. Refer to Appendix I Equipment Type Definitions for details |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getinfrared |

## param.cgi?cmd=setinfrared

|  |  |
| --- | --- |
| function | Set infrared lamp parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setinfrared] |
| parameter | none |
| Return | infraredstat | Infrared lamp statusAuto: automaticOpen: forced onClose: force off |
| Note | Some models do not support this attribute. Refer to Appendix I Equipment Type Definitions for details |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setinfrared&-infraredstat=auto |

# 3、Network

## param.cgi?cmd=getnetattr

|  |  |
| --- | --- |
| function | Obtain device network parameters |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getnetattr] |
| parameter | None |
| Return | dhcpflag | Enable DHCP:on：Turn onoff：Turn off |
| ip | IP address |
| netmask | Subnet mask |
| gateway | gateway |
| dnsstat | DNS status:0: Manual setting1: Automatic setting |
| fdnsip | be the first choice DNS |
| sdnsip | Reserve DNS |
| macaddress | MAC address |
| networktype | Network type:LAN: WiredWiFi: Wireless |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getnetattr |

## param.cgi?cmd=setnetattr

|  |  |
| --- | --- |
| function | config设备局域网 network parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setnetattr&-dhcp=&-ipaddr=&-netmask=&-gateway=&-dnsstat=&-fdnsip=&-sdnsip=] |
| parameter | dhcp | Enable DHCP?：on：Turn onoff：Turn off |
| ipaddr | IP address |
| netmask | Subnet mask |
| gateway | gateway |
| dnsstat | DNS status:0: Manual setting1: Automatic setting |
| fdnsip | be the first choice DNS |
| sdnsip | Reserve DNS |
| Return | Success: Include SuccessError: contains Error |
| Note | none |
| examples | /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 |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=gethttpport] |
| parameter | none |
| Return | httpport | HTTP port |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=gethttpport |

## param.cgi?cmd=sethttpport

|  |  |
| --- | --- |
| function | Config HTTP port |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=sethttpport&-httpport=] |
| parameter | httpport | HTTP port ：scope [80~65535] |
| Return | Success: Include SuccessFailed: contains Error |
| Note | After successful modification, the device will automatically restart |
| examples | /cgi-bin/hi3510/param.cgi?cmd=sethttpport&-httpport=80 |

## param.cgi?cmd=getrtspport

|  |  |
| --- | --- |
| function | Obtain RTSP and RTP ports |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getrtspport] |
| parameter | none |
| Return | rtspport | RTSP ports |
| rtpport | RTP ports |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getrtspport |

## param.cgi?cmd=setrtspport

|  |  |
| --- | --- |
| function | Configuring RTSP and RTP ports |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setrtspport&-rtspport=&-rtpport=] |
| parameterReturn | rtspport | RTSPport：scope [80~65535] |
| rtpport | RTPport：scope [5000~8000] |
|  | Success: Include SuccessFailed: contains Error |
| Note | After successful modification, the device will automatically restart |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setrtspport&-rtspport=554&-rtpport=6600 |

## param.cgi?cmd=getrtmpattr

|  |  |
| --- | --- |
| function | getRTMPport |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getrtmpattr] |
| parameter | none |
| Return | rtmpport | RTMPport |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getrtmpattr |

## param.cgi?cmd=setrtspport

|  |  |
| --- | --- |
| function | configRTMPport |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setrtmpattr&-rtmpport=] |
| parameter | rtmpport | RTMPport |
| Return | Success: Include SuccessFailed: contains Error |
| Note | After successful modification, the device will automatically restart |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setrtmpatt&-rtmpport=1935 |

## param.cgi?cmd=getrtspauth

|  |  |
| --- | --- |
| function | getRTSPPowerverify |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getrtspauth] |
| parameter | none |
| Return | rtsp\_aenable | whether or notTurn onRTSPPowerverify：0：Turn off1：Turn on |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getrtspauth |

## param.cgi?cmd=setrtspauth

|  |  |
| --- | --- |
| function | configRTSPPowerverify |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setrtspauth&- rtsp\_aenable=] |
| parameter | rtsp\_aenable | whether or notTurn onRTSPPowerverify：0：Turn off1：Turn on |
| Return | Success: Include SuccessFailed: contains Error |
| Note | After successful modification, the device will automatically restart |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setrtspauth&-rtsp\_aenable=1 |

## param.cgi?cmd=getinterip

|  |  |
| --- | --- |
| function | 查询本机的互联网IP地址 |
| Power | admin |
| Grammar | / cgi-bin/param.cgi?cmd=getinterip |
| parameter | none |
| Return | interip | 互联网IP地址，for example interip = "220.112.14.173" |
| Note | none |
| examples | /cgi-bin/param.cgi?cmd=getinterip |

## param.cgi?cmd=getupnpattr

|  |  |
| --- | --- |
| function | getUPNPparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getupnpattr] |
| parameter | none |
| Return | upm\_enable | whether or not Enable UPNPport映射：0：Turn off1：Turn on |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getupnpattr |

## param.cgi?cmd=setupnpattr

|  |  |
| --- | --- |
| function | setsUPNPparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setupnpattr&-upm\_enable=] |
| parameter | upm\_enable | whether or not Enable UPNPport映射：0：Turn off1：Turn on |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setupnpattr&-upm\_enable=1 |

##

## param.cgi?cmd=getonvifattr

|  |  |
| --- | --- |
| function | getonvifparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getonvifattr] |
| parameter | none |
| Return | ov\_enable | whether or notTurn on1：Turn on0：Turn off |
| ov\_port | port |
| ov\_authflag | Powerwhether or notverify1：verify0：No verify |
| ov\_forbitsetvar ov\_snapchnvar ov\_snapchnvar ov\_nvctype | 0：Time zone settings permit，Image parameter sets permit1：Time zone settings prohibit，Imageparameter sets permit2：Time zone settings permit，Imageparametersets prohibit3：Time zone settings prohibit，Imageparametersets prohibit |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getonvifattr |

## param.cgi?cmd=setonvifattr

|  |  |
| --- | --- |
| function | setsonvifparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setonvifattr&-ov\_enable=&-ov\_port=&-ov\_authflag=&-ov\_forbitset=] |
| parameter | ov\_enable | whether or notTurn on0：Turn off1：Turn on  |
| ov\_port | port |
| ov\_authflag | Powerwhether or notverify1：verify0： No verify |
| ov\_forbitset | 0：Time zone settings permit，Imageparametersets permit1：Time zone settings prohibit，Imageparametersets permit2：Time zone settings permit，Imageparametersets prohibit3：Time zone settings prohibit，Imageparametersets prohibit |
| 返回 | Success: Include SuccessFailed: contains Error |
| Note | After successful modification, the device will automatically restart |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setonvifattr&-ov\_enable=1&-ov\_port=8080&-ov\_authflag=0&-ov\_forbitset=0 |

# 4、Wifinone wire

## param.cgi?cmd=getwirelessattr

|  |  |
| --- | --- |
| function | getnone wire parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getwirelessattr] |
| parameter | none |
| Return | wf\_enable | whether or not Enable none wire 0：Turn off1：Turn on |
| wf\_ssid | SSIDMaximum 32 characters |
| wf\_auth | Encryption method0: none Encryption1: WEP2: WPA-PSK3: WPA2-PSK |
| wf\_key | Password |
| wf\_enc | Password Type0: TKIP1: AES |
| wf\_mode | Connection method0: Router mode1: Point to Point Method |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getwirelessattr |

## param.cgi?cmd=setwirelessattr

|  |  |
| --- | --- |
| function | confignone wire parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setwirelessattr&-wf\_enable=&-wf\_ssid=&-wf\_auth=&-wf\_key=&-wf\_enc=&-wf\_mode=] |
| parameter | wf\_enable | whether or not Enable none wire 0: Turn off1: Enable  |
| wf\_ssid | SSIDMaximum 32 characters |
| wf\_auth | Encryption method0: none加密1: WEP2: WPA-PSK3: WPA2-PSK |
| wf\_key | Password |
| wf\_enc | Password Type0: TKIP1: AES |
| wf\_mode | Connection method0: Router mode1: Point to Point Method |
| Return | Success: Include SuccessError: Include Error |
| Note | none |
| examples | /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 none wire network  |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=searchwireless] |
| parameter | none |
| Return | waccess\_points |  Search 到的none wire network 数量 |
| wchannel | Channel |
| wrssi | signal intensity |
| wessid | SSID |
| wenc | Encryption method |
| wauth |  Authentication method  |
| wnet | Connection mode (router mode, point to point mode) |
| Note: If there are multiple wifi networks, that is, waaccess\_ When points is greater than 1, multiple groups of access will be returned\_ The values of the wchannel to wnet fields outside points, such as:var waccess\_points="2" ;var wchannel=new Array();var wrssi=new Array();var wessid=new Array();var wenc=new Array();var wauth=new Array();var wnet=new Array();wchannel[0]="6" ;wrssi[0]="-82" ;wessid[0]="Fumax wireless" ;wenc[0]="AES" ;wauth[0]="WPA(2)-PSK" ;wnet[0]="Infra" ;wchannel[1]="11" ;wrssi[1]="-62" ;wessid[1]="linksys" ;wenc[1]="TKIP" ;wauth[1]="WPA(2)-PSK" ;wnet[1]="Infra" ; |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=searchwireless |

## param.cgi?cmd=chkwirelessattr

|  |  |
| --- | --- |
| function | config check none wire parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=chkwirelessattr&-wf\_ssid=&-wf\_auth=&-wf\_key=&-wf\_enc=&-wf\_mode=] |
|  | wf\_ssid | SSIDMaximum 32 characters |
| wf\_auth | Encryption method0: none加密1: WEP2: WPA-PSK3: WPA2-PSK |
| wf\_key | Password |
| wf\_enc | Password Type0: TKIP1: AES |
| wf\_mode | Connection method0: Router mode1: Point to Point Method |
| 返回 | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /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 check WIFIresult |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getchkwireless] |
| parameter | none |
| Return | chkres |  test result0： fail 1：Success |
| Note | Must be executed first: param.cgi?cmd=chkwirelessattr |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getchkwireless |

# 5、DDNS

## param.cgi?cmd=getourddnsattr

|  |  |
| --- | --- |
| function | get manufacturer DDNSparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getourddnsattr] |
| parameter | none |
| Return | our\_enable | whether or not Enable manufacturer DDNS：0：Turn off1： Enable  |
| our\_server | Server address  |
| our\_port | port |
| our\_uname |  user  |
| our\_passwd |  Password  |
| our\_domain |  host name  |
| var out\_interval |  time interval  |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getourddnsattr |

## param.cgi?cmd=setourddnsattr

|  |  |
| --- | --- |
| function | sets manufacturer DDNSparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setourddnsattr&-our\_enable=&-our\_server=&-our\_port=&-our\_uname=&-our\_passwd=] |
| parameterReturn | our\_enable | whether or not Enable manufacturer DDNS：0：Turn off1： Enable  |
| our\_server | Server address  |
| our\_port | port |
| our\_uname |  user  |
| our\_passwd |  Password  |
|  | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setourddnsattr&-our\_enable=1&-our\_server=hipcam.org&-our\_port=80&-our\_uname=user&-our\_passwd=user |

## param.cgi?cmd=get3thddnsattr

|  |  |
| --- | --- |
| function | get third party DDNSparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=get3thddnsattr] |
| parameter | none |
| Return | d3th\_enable | whether or not Enable third party DDNS：0：Turn off1：Turn on |
| d3th\_service | DDNS Service Provider Type ：0: dyndns.org1: 322.org2: dynddns.us3: No-ip.com |
| d3th\_uname |  user  |
| d3th\_passwd |  Password  |
| d3th\_domain |  host name  |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=get3thddnsattr |

## param.cgi?cmd=set3thddnsattr

|  |  |
| --- | --- |
| function | sets third party DDNSparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=set3thddnsattr.&-d3th\_enable=&-d3th\_service=&-d3th\_uname=&-d3th\_passwd=&-d3th\_domain=] |
| parameter | d3th\_enable | whether or not Enable third party DDNS：0：Turn off1： Enable  |
| d3th\_service | DDNS Service Provider Type ：0：dyndns.org1：3322.org2：dynddns.us3：No-ip.com |
| d3th\_uname |  user  |
| d3th\_passwd |  Password  |
| d3th\_domain |  host name  |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=set3thddnsattr&-d3th\_enable=1&-d3th\_service=1&-d3th\_uname=sample&-d3th\_passwd=1234&-d3th\_domain=sample.dyndns.org |

# 6, PTZ control

## param.cgi?cmd=getmotorrange

|  |  |
| --- | --- |
| function | get step  |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi? cmd=getmotorrange |
| parameterReturn | var panrange  |  horizontal  |
| var tiltrange  |  Vertical  |
| var panhome  |  horizontal centre  |
| var tilthome  |  Vertical centre  |
|  | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi? cmd=getmotorrange |

## param.cgi?cmd=setmotorrange

|  |  |
| --- | --- |
| function | get step  |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi? cmd=setmotorrange |
| parameter | var panrange  |  horizontal  |
| var tiltrange  |  Vertical  |
| var panhome  |  horizontal centre  |
| var tilthome  |  Vertical centre  |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi? cmd=setmotorrange&-panrange=500 |

## param.cgi?cmd=ptzctrl

|  |  |
| --- | --- |
| function |  PTZ control |
| Power | admin和user |
| Grammar | /cgi-bin/hi3510/param.cgi?cmd=ptzctrl.cgi[&-step=&-act=&-speed=] |
| parameter | step | Stepping method:0: After single step execution, you need to issue the Stop command again to stop1: Automatic Stop after single step execution |
| act | Control command, such as:left： left right： right up：Updown：downhome： go home zoomin： zoom+ zoomout： zoom- focusout： focus+ focusin： focus-hscan： horizontal cruise vscan： Vertical cruise stop： Stop  |
| speed |  PT Speed ，Values range from 1 to 63。 |
| Return | Success: Include SuccessFailed: contains Error |
| Note | Some models do not support this attribute. Refer to Appendix I Equipment Type Definitions for details |
| examples | /cgi-bin/hi3510/param.cgi?cmd=ptzctrl&-step=0&-act=left&-speed=45 |

## param.cgi?cmd=preset

|  |  |
| --- | --- |
| function |  PTZ Preset Control  |
| Power | admin和user |
| Grammar | /cgi-bin/hi3510/param.cgi?cmd=preset[&-act=&-status=&-number=] |
| parameter | act | Control command ：goto：call Preset set：sets Preset  |
| status | Preset Control command ：0：DEL1： Save  |
| number | Preset No. |
| Return | Success: Include SuccessFailed: contains Error |
| Note |  Different device models may have different preset positions |
| examples | /cgi-bin/hi3510/param.cgi?cmd=preset&-act=goto&-number=1/cgi-bin/hi3510/param.cgi?cmd=preset&-act=set&-status=1&-number=1 |

## param.cgi?cmd=getmotorattr

|  |  |
| --- | --- |
| function | get PTZ parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getmotorattr] |
| parameter | none |
| Return | panspeed | horizontal Speed0：fast1：middle2：slow |
| tiltspeed |  Vertical Speed0：fast1：middle2：slow |
| panscan |  horizontal cruise number |
| tiltscan |  Vertical cruise number |
| movehome | self-checking centre on：Turn onoff：Turn off |
| ptzalarmmask | Turn off alarm when PTZ is movingon：Turn onoff：Turn off |
| light\_enable |  |
| alarmpresetindex | Alarm linkage Preset ，（1-8） |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getmotorattr |

## param.cgi?cmd=setmotorattr

|  |  |
| --- | --- |
| function | sets PTZ parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setmotorattr&-panspeed=&-tiltspeed=&-panscan=&-tiltscan=&-movehome=&-ptzalarmmask=&-alarmpresetindex=] |
| parameter | panspeed |  horizontal Speed0：fast1：middle2：slow |
| tiltspeed |  Vertical Speed0：fast1：middle2：slow |
| panscan |  horizontal cruise Number |
| tiltscan |  Vertical cruise Number |
| movehome | self-checking centre on：Turn onoff：Turn off |
| ptzalarmmask | Turn off alarm when PTZ is movingon：Turn onoff：Turn off |
| alarmpresetindex | Alarm linkage Preset Preset ，（1-8） |
| 返回 | Success: Include SuccessFailed: contains Error |
| Note |  horizontal Speed and Vertical Speed are same， horizontal cruise Number and Vertical cruise Number are same。 |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setmotorattr&-panspeed=1&-tiltspeed=1&-panscan=1&-tiltscan=1&-movehome=on&-ptzalarmmask=on&-alarmpresetindex=1 |

## param.cgi?cmd=getptzcomattr

|  |  |
| --- | --- |
| function | getPTZparameter |
| Power | admin和user |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getptzcomattr] |
| parameter | none |
| Return | protocal | Protocol Type：0：PELCO-D1：PELCO-P |
| address | Address code（0~255） |
| baud | Baud rate |
| databit | Data bits |
| stopbit |  Stop bit |
| check | verify：0：none1：odd verify2：even verify3: Mark4: Space |
| speed | Speed |
| Note |  |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getptzcomattr |

## param.cgi?cmd=setptzcomattr

|  |  |
| --- | --- |
| function | setsPTZparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setptzcomattr&-protocal=&-address=&-baud=&-databit=&-stopbit=&-check=&-speed=] |
| parameter | protocal | Protocol Type：0：PELCO-D1：PELCO-P |
| address | 地址码：0~255 |
| baud | Baud rate：1200、2400、4800、9600、19200、38400、57600 |
| databit | Data bits: 7, 8 (one of its middle) |
| stopbit | Stop bit: 1, 2 (one of its middle) |
| check | verify：0：noneverify1：odd verify2：even verify |
| Speed | Speed（1-63） |
| 返回 | Success: Include SuccessFailed: contains Error |
| Note | Some models do not support this attribute. Refer to Appendix I Equipment Type Definitions for details |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setptzcomattr&-protocal=0&-address=1&-baud=9600&-databit=8&-stopbit=1&-check=0&-speed=31 |

## ptzup.cgi

|  |  |
| --- | --- |
| function | Control PTZ Up rotation (applicable to PTZ control during mobile browsing) |
| Power | Admin and user |
| Grammar | /cgi-bin/hi3510/ptzup.cgi |
| parameter | none |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/ptzup.cgi |

## ptzdown.cgi

|  |  |
| --- | --- |
| function | Control PTZ down rotation (applicable to PTZ control during mobile browsing) |
| Power | Admin and user |
| Grammar | /cgi-bin/hi3510/ptzdown.cgi |
| parameter | none |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/ptzdown.cgi |

## ptzleft.cgi

|  |  |
| --- | --- |
|  function  | Control PTZ left rotation (applicable to PTZ control during mobile browsing) |
| Power | Admin and user |
| 语法 | /cgi-bin/hi3510/ptzleft.cgi |
| parameter | none |
| 返回 | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/ptzleft.cgi |

## ptzright.cgi

|  |  |
| --- | --- |
| function | Control PTZ right rotation (applicable to PTZ control during mobile browsing) |
| Power | Admin and user |
| Grammar | /cgi-bin/hi3510/ptzright.cgi |
| parameter | none |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/ptzright.cgi |

## ptzzoomin.cgi

|  |  |
| --- | --- |
| function | Control PTZ lens zoom+(suitable for PTZ control during mobile browsing) |
| Power | Admin and user |
| Grammar | /cgi-bin/hi3510/ptzzoomin.cgi |
| parameter | none |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/ptzzoomin.cgi |

## ptzzoomout.cgi

|  |  |
| --- | --- |
|  function  | Control PTZ lens zoom- (suitable for PTZ control during mobile browsing) |
| Power | Admin and user |
| 语法 | /cgi-bin/hi3510/ptzzoomout.cgi |
| parameter | none |
| 返回 | Success: Include SuccessError: Include Error |
| Note | none |
| examples | /cgi-bin/hi3510/ptzzoomout.cgi |

# 7、Movement detection、I/O alarm

## param.cgi?cmd=getmdattr

|  |  |
| --- | --- |
| function | Get Movement detection configparameter |
| Power | admin |
| Grammar | cgi-bin/hi3510/param.cgi[?cmd=getmdattr] |
| parameter | none |
| Return | m1\_enable | whether or not Enable Area movement detection function：0：Turn off1： Enable  |
| m1\_x | Area I abscissa |
| m1\_y | Area I ordinate |
| m1\_w | Zone 1 width |
| m1\_h | Area I height |
| m1\_sensitivity | Zone 1 sensitivity |
| m1\_threshold | Reserved field, not used |
| m2\_enable | whether or not Enable area 2 Movement detection function ：0：Turn off1： Enable  |
| m2\_x | Area 2 abscissa |
| m2\_y | Area II ordinate |
| m2\_w | Zone 2 width |
| m2\_h | Area II height |
| m2\_sensitivity | Zone 2 sensitivity |
| m2\_threshold | Reserved field, not used |
| m3\_enable | whether or not Enable Area 2 Movement detection function ：0：Turn off1： Enable  |
| m3\_x | Area 3 abscissa |
| m3\_y | Area 3 ordinate |
| m3\_w | Zone 3 width |
| m3\_h | Area 3 height |
| m3\_sensitivity | Zone 3 sensitivity |
| m3\_threshold | Reserved field, not used |
| m4\_enable | whether or not Enable Area 4 Movement detection function ：0：Turn off1： Enable  |
| m4\_x | Area 4 abscissa |
| m4\_y | Area 4 ordinate |
| m4\_w | Zone 4 width |
| m4\_h | Area 4 height |
| m4\_sensitivity | Zone 4 sensitivity |
| m4\_threshold | Reserved field, not used |
| Note | Regional coordinates and width and height are based on the maximum resolution of the device. |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getmdattr |

## param.cgi?cmd=setmdattr

|  |  |
| --- | --- |
|  function  | Config Movement detection parameter |
| Power | admin |
| 语法 | /cgi-bin/hi3510/param.cgi[?cmd=setmdattr&-enable=&-s=&-name=&-x=&-y=&-w=&-h=] |
| parameter | enable | whether or not Enable Movement detection function ：0：Turn off1： Enable  |
| s | Sensitivity: range [1~100] |
| name | Alarm area: range [1~4] |
| x | Horizontal coordinate of movement detection area |
| y | Vertical coordinate of movement detection area |
| w | Movement detection area width |
| h | Movement detection area height |
| 返回 | Success: Include SuccessFailed: contains Error |
| Note | Regional coordinates and width and height are based on the maximum resolution of the device. |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setmdattr&-enable=1&-s=50&-name=1&-x=0&-y=0&-w=60&-h=60 |

## param.cgi?cmd=getioattr

|  |  |
| --- | --- |
| function | get External alarm input parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getioattr] |
| parameter | none |
| Return | io\_enable | whether or not Enable External alarm input ：0：Turn off1：Turn on |
| io\_flag |  External alarm mode ：0：normal close1：  |
| 备注 | none |
| 示例 | /cgi-bin/hi3510/param.cgi?cmd=getioattr |

## param.cgi?cmd=setioattr

|  |  |
| --- | --- |
| function | sets External alarm input parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setioattr &-io\_enable=&-io\_flag=] |
| parameter | io\_enable | whether or not Enable External alarm input ：0：Turn off1：Turn on |
| io\_flag |  External alarm mode ：0：normal close1：normally open |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setioattr&-io\_enable=1&-io\_flag=0 |

## param.cgi?cmd=getmdalarm

|  |  |
| --- | --- |
| function | Get Alarm linkage Preset status information  |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getmdalarm&-aname=] |
| parameter | aname | Option name:Email: E-mail alarmEmailsnap: E-mail alerts and sends picturesSnap: Save image to SD cardFtpsnap: Save image to FTP serverRecord: Save video to SD cardFtprep: Save video to FTP serverRelay: relay output |
| 返回 | md\_email\_switch | whether or not Enable E-mail alarm function ：on：Validoff：Turn off |
| md\_emailsnap\_switch | whether or not Enable E-mail alarm and send image function ：on：Validoff：Turn off |
| md\_snap\_switch | whether or not Enable Save image to sd card ：on：Validoff：Turn off |
| md\_ ftpsnap \_switch | whether or not Enable Save image to ftp上：on：Validoff：Turn off |
| md\_record\_switch | whether or not Enable Save video to sd card：on：Validoff：Turn off |
| md\_ftprec\_switch | whether or not Enable Save video to ftp：on：Validoff：Turn off |
| md\_relay\_switch | whether or not Enable Relay output：on：Validoff：Turn off |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getmdalarm&-aname=email&cmd=getmdalarm&-aname=emailsnap&cmd=getmdalarm&-aname=ftpsnap&cmd=getmdalarm&-aname=snap&cmd=getmdalarm&-aname=emailrec&cmd=getmdalarm&-aname=record&cmd=getmdalarm&-aname=ftprec&cmd=getmdalarm&-aname=relay |

## param.cgi?cmd=setmdalarm

|  |  |
| --- | --- |
| function | configAlarm linkage Presetparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setmdalarm &-aname=&-switch=] |
| parameter | aname | Alarm linkage Preset Option Name ：email：E-mail alarm emailsnap：E-mail alarm and send image snap： Save image to sd card ftpsnap： Save image to ftprecord： Save video to sd cardftprec： Save video to ftprelay： Relay output |
| switch | Alarm linkage Preset Option Value：on： Enable off：Turn off |
| Return | Success: Include SuccessError: Include Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setmdalarm&-aname=email&-switch=off&cmd=setmdalarm&-aname=emailsnap&-switch=off&cmd=setmdalarm&-aname=ftprec&-switch=off&cmd=setmdalarm&-aname=snap&-switch=off&cmd=setmdalarm&-aname=ftpsnap&-switch=off&cmd=setmdalarm&-aname=record&-switch=off&cmd=setmdalarm&-aname=relay&-switch=off |

## param.cgi?cmd=getrelayattr

|  |  |
| --- | --- |
| function | getAlarm linkage Preset时 Relay output time |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getrelayattr] |
| parameter | none |
| Return | time | Output time (in seconds)，for example var time="10"; |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getrelayattr |

## param.cgi?cmd=setrelayattr

|  |  |
| --- | --- |
| function | setsAlarm linkage Preset时 Relay output time |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setrelayattr&-time=] |
| parameter | time | Output time (in seconds)，Value range [5、10、20、30] |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setrelayattr&-time=10 |

## param.cgi?cmd=getalarmsnapattr

|  |  |
| --- | --- |
| function | get Number of pictures captured |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getalarmsnapattr] |
| parameter | none |
| Return | snap\_count |  Number of pictures captured |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getalarmsnapattr |

## param.cgi?cmd=setalarmsnapattr

|  |  |
| --- | --- |
| function | sets Number of pictures captured |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setalarmsnapattr&-snap\_count=] |
| parameter | snap\_count |  Number of pictures captured，Value range [1、2、3] |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setalarmsnapattr&-snap\_count=2 |

## param.cgi?cmd=getscheduleex

|  |  |
| --- | --- |
| function | get alarm arrange time和定时 record time |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getscheduleex&-ename=] |
| parameter | ename |  Option Name md : alarm arrangeplan : timing record |
| Return | week0=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPweek1=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPweek3=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPweek4=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPweek5=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPweek6=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP | Number of pictures captured week0: SundayWeek1: MondayWeek2: TuesdayWeek3: WednesdayWeek4: ThursdayWeek5: FridayWeek6: SaturdayP : openN : close |
| Note | Parameter - week0~- week6middle, each parameter has 48 characters, that is, a 24-hour video recording config string (a 24-hour day will be subdivided into half an hour into a time segment, using the characters P or N to indicate where or not to turn on video recording, P to indicate on, and N to indicate off), and the time is calculated from zero to zero |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getscheduleex&-ename=md |

## param.cgi?cmd=setscheduleex

|  |  |
| --- | --- |
| function | sets alarm arrange time and timing record |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setscheduleex&-ename=&-week0=&-week1=&-week2=&-week3=&-week4=&-week5=&-week6=] |
| parameter | ename | Option Name md : alarm arrange plan : timing record |
| week0 | Sunday: The 24-hour period is divided into half an hour and divided into a time segment. The status of each time segment is indicated by P or N, with a total of 48 bytes (P=on, N=off) |
| week1week2week3week4week5week6 | MondayTuesdayWednesdayThursdayFridaySaturday |
| Return | Success: Include SuccessError: Include Error |
| Note | Parameter - week0~- week6middle, each parameter has 48 characters, that is, a 24-hour video recording config string (a 24-hour day will be subdivided into half an hour into a time segment, using the characters P or N to indicate where or not to turn on video recording, P to indicate on, and N to indicate off), and the time is calculated from zero to zero |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setscheduleex&-ename=md&-week0=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP&-week1=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP& |

## param.cgi?cmd=getplanrecattr

|  |  |
| --- | --- |
| function | get plan record parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getplanrecattr] |
| parameter | none |
| Return | planrec\_enable | whether or notTurn on record 0：Turn off1：Turn on |
| planrec\_time |  record File duration (15-900 seconds) |
| planrec\_chn |  record Code rate 11、12、13 |
| planrec\_type |  record format，0：AVI，1：264 |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getplanrecattr |

## param.cgi?cmd=setplanrecattr

|  |  |
| --- | --- |
| function | sets plan record parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setplanrecattr&-planrec\_enable=&-planrec\_time&-planrec\_chn] |
| parameterReturn | planrec\_enable | whether or notTurn on record 0：Turn off1：Turn on |
| planrec\_time |  record File duration (15-900 seconds) |
| planrec\_chn |  record Code rate 11、12、13 |
| function | Success: Include SuccessFailed: contains Error |
| Note | After the code rate is successfully modified, the device will automatically restart |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setplanrecattr&-planrec\_enable=1&-planrec\_time=30&-planrec\_chn=12 |

## param.cgi?cmd=relayctrl

|  |  |
| --- | --- |
| function | Manual Turn on or Turn off electric relay  |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=relayctrl&-act=] |
|  | act | whether or not Enable electric relay function ：on： Enable off：Turn off |
| 返回 | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=relayctrl&-act=on |

## param.cgi?cmd=getalarmsnapattr

|  |  |
| --- | --- |
| function | Get Capture Image File Name parameter |
| Power | Admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getalarmsnapattr] |
| parameter | none |
| Return | snap\_name\_mode | Naming0: Date time name1: Fixed file name |
| snap\_alarm\_name |  alarm Capture Image File Name |
| snap\_timer\_name  | Timing Capture Image File Name |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getalarmsnapattr |

## param.cgi?cmd=setalarmsnapattr

|  |  |
| --- | --- |
| function | sets Capture Image File Name parameter |
| Power | Admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setalarmsnapattr&-snap\_name\_mode=&-snap\_alarm\_name=&-snap\_timer\_name=] |
| parameter | snap\_name\_mode | Naming0: Date time name1: Fixed file name |
| snap\_alarm\_name |  alarm Capture Image File Name |
| snap\_timer\_name | Timing Capture Image File Name |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setalarmsnapattr&-snap\_name\_mode=1&-snap\_alarm\_name=snapalarm&-snap\_timer\_name=snaptime |

# 8、user management

## param.cgi?cmd=getuserattr

|  |  |
| --- | --- |
|  function  | get All user information |
| Power | admin |
| 语法 | /cgi-bin/hi3510/param.cgi[?cmd=getuserattr] |
| parameter | none |
| 返回 | at\_name |  user  |
| at\_password | User Password  |
| Note | 此 command will return All user information， for 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"; |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getuserattr |

## param.cgi?cmd=setuserattr

|  |  |
| --- | --- |
| function | Config user management parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setuserattr&-at\_username=&-at\_newname= &-at\_password =] |
| parameterReturn | at\_username | old user ，The maximum number of characters is 16 |
| at\_newname | new user ，The maximum number of characters is 16 |
| at\_password |  Password parameter，The maximum number of characters is 16 |
| function | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setuserattr&-at\_username=admin&-at\_newname=newname&-at\_password=admin |

## param.cgi?cmd=getsetupflag

|  |  |
| --- | --- |
| function | getadmin user parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi?cmd=getsetupflag |
| parameter | none |
| Return | name0 |  user  |
| password0 |  Password  |
| authLevel0 |  Reserved Fields |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getsetupflag |

## param.cgi?cmd=getstreamflag

|  |  |
| --- | --- |
| function | Get guest user parameter |
| Power | guest |
| Grammar | /cgi-bin/hi3510/ param.cgi?cmd=getstreamflag |
| parameter | none |
| Return | name2 |  user  |
| password2 |  Password  |
| authLevel2 |  Reserved Fields |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getstreamflag |

## param.cgi?cmd=getptzflag

|  |  |
| --- | --- |
| function | Get user user parameter |
| Power | user |
| Grammar | /cgi-bin/hi3510/param.cgi?cmd=getptzflag |
| parameter | none |
| Return | name1 |  user  |
| password1 |  Password  |
| authLevel1 |  Reserved Fields |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getptzflag |

## param.cgi?cmd=getuserinfo

|  |  |
| --- | --- |
| function | get login user info |
| Power | admin、user or guest |
| Grammar | /cgi-bin/hi3510/param.cgi?cmd=getuserinfo |
| parameter | none |
| Return | name |  user  |
| password |  Password  |
| authLevel | Power15：admin3：user1：guest |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getuserinfo |

## 9,timing capture

## captureparam.cgi?cmd=getsnaptimerattrex

|  |  |
| --- | --- |
| function | Get Timing capture parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getsnaptimerattrex] |
| parameter | none |
| Return | as\_snap\_enable  | whether or not Enable Timing capture Save picture to SD card：0：Turn off1：Turn on |
| as\_snap\_interval |  time interval ，Unit seconds (range: 5-86400) |
| as\_email\_enable | whether or not Enable ,Timing capture and send pictures to Email：0：Turn off1：Turn on |
| as\_email\_interval |  time interval ，Unit seconds (range: 5-86400) |
| as\_ftp\_enable | whether or not Enable ,Timing capture and send pictures to FTP server：0：Turn off1：Turn on |
| as\_ftp\_interval |  time interval ，Unit seconds (range: 5-86400) |
| as\_cloud\_enable | whether or not Enable Timing capture and send pictures to cloud：Reserved field, not used0：Turn off1：Turn on |
| var\_cloud\_interval |  time interval ，Unit seconds (range: 5-86400) |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getsnaptimerattrex |

## param.cgi?cmd=setsnaptimerattrex

|  |  |
| --- | --- |
| function | Sets Timing capture parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setsnaptimerattrex&-as\_enable=&-as\_interval=&-as\_type=] |
| parameter | as\_enable | whether or notTurn on Timing capture：0：Turn off1： Enable  |
| as\_interval |  time interval ，Unit seconds (range: 5-86400) |
| as\_type |  Linkage type snap: Save picture to SD card。email: send picture to Emailftp: send picture to FTP server. |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setsnaptimerattrex&-as\_enable=1&-as\_interval=60&-as\_type=snap |

# 10、FTP

## param.cgi?cmd=getftpattr

|  |  |
| --- | --- |
| function | getFTPparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getftpattr] |
| parameter | none |
| Return | ft\_server | FTPServer address  |
| ft\_port |  server port |
| ft\_username |  user  |
| ft\_password |  Password  |
| ft\_dirname |  way  |
| ft\_mode |  Passive mode ：0：Turn off1：Turn on |
| ft\_autocreatedir | Automatically create a directory：0：Turn off1：Turn on |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getftpattr |

## param.cgi?cmd=setftpattr

|  |  |
| --- | --- |
|  function  | Sets FTP parameter |
| Power | admin |
| 语法 | /cgi-bin/hi3510/param.cgi[?cmd=getftpattr&-ft\_server=&-ft\_port=&-ft\_username=&-ft\_password=&- ft\_dirname =&-ft\_mode=] |
| parameter | ft\_server | FTPServer address  |
| ft\_port |  server port |
| ft\_username |  user  |
| ft\_password |  Password  |
| ft\_dirname |  way  |
| ft\_mode |  Passive mode ：0：Turn off1：Turn on |
|  | ft\_autocreatedir | Automatically create a directory：0：Turn off1：Turn on |
| Return | Success: Include SuccessError: Include Error |
| Note | none |
| examples | /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 |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=testftp] |
| parameter | none |  |
| Return | result | type0：Success-1：unknownError-2：Unable to connect to server-3： user or Password Error-4： way Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=testftp  |

# 11、SMTP

## param.cgi?cmd=getsmtpattr

|  |  |
| --- | --- |
| function | getSMTPconfigparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getsmtpattr] |
| parameter | none |
| Return | ma\_server | SMTPServer address  |
| ma\_port |  server port |
| ma\_ssl |  Secure connection type ：0：Turn off1：SSL2：TLS3：STARTTLS |
| ma\_logintype | whether or not Verification Required ：1：Turn on Verification3：Turn off Verification |
| ma\_username |  user  |
| ma\_password |  Password  |
| ma\_from | Shipping address |
| ma\_to | Receiving address |
| ma\_subject | Mail Subject |
| ma\_text | Message Text Content |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getsmtpattr |

## param.cgi?cmd=setsmtpattr

|  |  |
| --- | --- |
| function | setsSMTPparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setsmtpattr&-ma\_server=&-ma\_port=&-ma\_ssl=&-ma\_logintype=&-ma\_username=&-ma\_password=&-ma\_from=&-ma\_to=&-ma\_subject=&-ma\_text=] |
| parameter | ma\_server | SMTPServer address  |
| ma\_port |  server port |
| ma\_ssl |  Secure connection type ：0：Turn off1：SSL2：TLS3：STARTTLS |
| ma\_logintype | whether or not Verification Required ：1：Turn on Verification3：Turn off Verification |
| ma\_username |  user  |
| ma\_password |  Password  |
| ma\_from | Shipping address |
| ma\_to | Receiving address |
| ma\_subject | Mail Subject |
| ma\_text | Message Text Content |
| Return | Success: Include SuccessError: Include Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setsmtpattr&-ma\_server=stmp.sdf.com&-ma\_from=sd1@sdf.com&-ma\_to=a1@sdf.com&-ma\_subject=demosubject&-ma\_text=demotext&-ma\_logintype=1&-ma\_username=demo&-ma\_password=123456&-ma\_port=25&-ma\_ssl=0 |

## param.cgi?cmd=testsmtp

|  |  |
| --- | --- |
| function |  test smtp |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=smtp] |
| parameter | none |  |
| Return | result | 类型0：Success-1：unknow Error-2：sslError-3：not connection to server -4： user or Password Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=testsmtp  |

# 12、SD卡

## param.cgi?cmd=sdfrmt

|  |  |
| --- | --- |
| function | Format SD card to FAT32 file system |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi?cmd=sdfrmt |
| parameter | none |
| Return | Format SD Card Success |
| Note | wait time longer |
| examples | /cgi-bin/hi3510/param.cgi?cmd=sdfrmt |

## param.cgi?cmd=sdstop

|  |  |
| --- | --- |
| function |  Stop use SD card |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi?cmd= sdstop |
| parameter | none |
| Return | Stop SD Card Success |
| Note | Wait time longer |
| examples | /cgi-bin/hi3510/param.cgi?cmd=sdstop |

# 13、 timing restart

## Param.cgi?cmd=gettimerreboot

|  |  |
| --- | --- |
| function |  timing reboot |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi? cmd=gettimerreboot |
| parameter | sr\_enable | whether or notTurn on timing reboot0：Turn off、1：Turn on |
| sr\_day | week：0-6(Sunday - Saturday)，7days |
| sr\_hour |  time：0~23 hours |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi? cmd=gettimerreboot |

## Param.cgi?cmd=settimerreboot

|  |  |
| --- | --- |
| function |  timing reboot |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi? cmd=settimerreboot |
| parameter | sr\_enable | whether or notTurn on timing reboot0：Turn off、1：Turn on |
| sr\_day | week：0-6(Sunday - Saturday)，7days |
| sr\_hour |  time：0~23 hours |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi? cmd=settimerreboot&-sr\_enable=0 |

# 14、language sets

## param.cgi?cmd=getlanguage

|  |  |
| --- | --- |
| function | get language |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi? cmd=getlanguage |
| parameter | lancode | 0：Chinese、1：English |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi? cmd=getlanguage |

## Param.cgi?cmd=setlanguage

|  |  |
| --- | --- |
| function | sets language |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi? cmd=getlanguage |
| parameter | lancode | 0：Chinese、1：English |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi? cmd=setlanguage&-language=0 |

# 15、Multichannel sets

## param.cgi?cmd=getdevices

|  |  |
| --- | --- |
| function | Multichannel sets |
| Power | Admin |
| Grammar | /cgi-bin/hi3510/param.cgi? cmd=getdevices |
| parameter | none |
| Return | d\_host | Device Address |
| d\_ailas | Device aliases |
| d\_port | Device port |
| d\_username | Device Name |
| d\_password | Device Password |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi? cmd=getdevices |

## Param.cgi?cmd=setdevices

|  |  |
| --- | --- |
| function | Multichannel sets |
| Power | Admin |
| Grammar | /cgi-bin/hi3510/param.cgi? cmd=setdevices |
| parameter | none |
| Return | d\_host | Device Address |
| d\_ailas | Device aliases |
| d\_port | Device port |
| d\_username | Device Name |
| d\_password | Device Password  |
| Note | none |
| examples | cgi-bin/hi3510/param.cgi? cmd=setdevices&-d\_number=2&-d\_host=192.168.1.100 |

# 16、 System sets

## param.cgi?cmd=getserverinfo

|  |  |
| --- | --- |
| function | get Device Information  |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getserverinfo] |
| parameter | none |
| Return | model | Device Sequence |
| hardVersion | Hardware version |
| softVersion | Software version |
| webVersion | Web Version |
| name | Device Name |
| startdate | System start time |
| upnpstatus | Upnp statusok：Successoff：un-Enable failed： fail  |
| facddnsstatus | Manufacturer dynamic domain name statusok：Successoff：UN-Enable failed： fail  |
| th3ddnsstatus |  third party Dynamic domain name statusok：Successoff：UN-Enable failed： fail  |
| platformstatus | Plateform status |
| runtimes |  Reserved Fields |
| sdstatus | SD card statusout: none SD cardReady: has sd cardReadonly: SD card read-only |
| sdfreespace | The remaining free space size of the SD card, in kilobytes |
| sdtotalspace | Total capacity of SD card, in KB |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getserverinfo |

## param.cgi?cmd=getdevtype

|  |  |
| --- | --- |
| function | Get Device Type Information |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getdevtype] |
| parameter | none |
| Return | devtype | Device Type |
| Note | Some models do not support this attribute. Refer to Appendix I Equipment Type Definitions for details |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getdevtype |

## param.cgi?cmd=getstreamnum

|  |  |
| --- | --- |
| function | Get the number of real-time video monitoring users |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getstreamnum] |
| parameter | none |
| Return | stream\_num | Limited number of users，for example var stream\_num = "1" ; |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getstreamnum |

## param.cgi?cmd=getservertime

|  |  |
| --- | --- |
| function | Get system time info |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getservertime] |
| parameter | none |
| Return | time | current date time，[yyyy][mm][dd][hh][mm][ss]for example time="20110802182638"; |
| timeZone | time zone,for example timeZone="Asia/Hong\_Kong"; |
| dstmode | whether or not Enable Daylight Saving Time Auto Recall Time：on： Enable off：Turn off |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getservertime |

## param.cgi?cmd=setservertime

|  |  |
| --- | --- |
| function | sets系统 time |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setservertime&-time=&-timezone=&-dstmode=] |
| parameter | stime | current date time [yyyy].[mm].[dd].[hh].[mm].[ss]for example ：2011.08.23.10.35.08 |
| timezone | Time zone：for example timeZone="Asia/Hong\_Kong"； |
| dstmode | whether or not Enable Daylight Saving Time Auto Recall Time：on：Validoff：Turn off |
| Return | Success: Include SuccessFailed: contains Error |
| Note | Daylight Saving Time Auto Recall Time for all |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setservertime&-time=2011.08.23.10.35.08&-timezone=Asia/Hong\_Kong&-dstmode=off |

## param.cgi?cmd=getntpattr

|  |  |
| --- | --- |
| function | Get NTP parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getntpattr] |
| parameter | none |
| Return | ntpenable | whether or not Enable NTP：1： Enable 0： No Enable  |
| ntpserver | NTP server ：（下列之一）time.nist.govtime.kriss.re.krtime.windows.comtime.nuri.net |
| ntpinterval | Sync Interval |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getntpattr |

## param.cgi?cmd=setntpattr

|  |  |
| --- | --- |
| function | configNTPparameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setntpattr&-ntpenable=&-ntpserver=&-ntpinterval=] |
| parameter | ntpenable | whether or not Enable NTP：1： Enable 0： No Enable  |
| ntpserver | NTP server ：（One of the following is recommended）time.nist.govtime.kriss.re.krtime.windows.comtime.nuri.net |
| ntpinterval | Synchronization interval: range [1 to 24 hours] |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setntpattr&-ntpenable=1&-ntpinterval=2&-ntpserver=time.nuri.net |

## param.cgi?cmd=getcapability

|  |  |
| --- | --- |
| function | Get Equipment capacity parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=getcapability] |
| parameter | none |
| Return | cap\_cvbs | whether or not Enable CVBS：on：Validoff：Turn off |
| cap\_sd | whether or not Enable SD卡：o on：Validoff：Turn off |
| cap\_usb | whether or not Enable USB：on： Enable off： No Enable  |
| 备注 | none |
| 示例 | /cgi-bin/hi3510/param.cgi?cmd=getcapability |

## param.cgi?cmd=setcapability

|  |  |
| --- | --- |
| function | Config Equipment capacity parameter |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=setcapability&-cap\_cvbs=&-cap\_sd=&-cap\_usb=] |
| parameter | cap\_cvbs | whether or not Enable CVBS：on：Validoff：Turn off |
| cap\_sd | whether or not Enable SD卡：on：Validoff：Turn off |
| cap\_usb | whether or not Enable USB：on：Validoff：Turn off |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setcapability&-cap\_cvbs=off&-cap\_sd=on&-cap\_usb=on |

## web/tmpfs/snap.jpg

|  |  |
| --- | --- |
| function | IE Browser Snapshot |
| Power | admin、user and guest |
| Grammar | /web/tmpfs/snap.jpg |
| parameter | none |
| Return | snap.jpg |
| Note | none |
| examples | /web/tmpfs/snap.jpg |

## Sysreset.cgi

|  |  |
| --- | --- |
| function | Restore the system to the factory |
| Power | admin |
| Grammar | /cgi-bin/hi3510/sysreset.cgi |
| parameter | none |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/sysreset.cgi |

## Sysreboot.cgi

|  |  |
| --- | --- |
| function | Restart systme |
| Power | admin |
| Grammar | /cgi-bin/hi3510/sysreboot.cgi |
| parameter | none |
| Return | Success: Include SuccessFailed: contains Error |
| Note | none |
| examples | /cgi-bin/hi3510/sysreboot.cgi |

## backup.cgi

|  |  |
| --- | --- |
| function | Backup config |
| Power | admin |
| Grammar | /cgi-bin/hi3510/backup.cgi |
| parameter | none |
| Return | config\_backup.bin |
| Note | none |
| examples | /cgi-bin/hi3510/backup.cgi |

## restore.cgi

|  |  |
| --- | --- |
| function | Restore sets |
| Power | admin |
| Grammar | /cgi-bin/hi3510/restore.cgi[?-setting\_file=] |
| parameter | setting\_file | File config  |
| Return | none |
| Note | This cgi must use the post method to package and send the previously backed up parameterconfig file to ip camera. |
| examples | <form name="form6" method="post" enctype="multipart/form-data" action="cgi-bin/hi3510/restore.cgi" ><input type="file" name="setting\_file" ><input type="submit" value="restore" ></form> |

## upgrade.cgi

|  |  |
| --- | --- |
| function | System upgrade (dangerous, use with caution) |
| Power | admin |
| Grammar | /cgi-bin/hi3510/upgrade.cgi[?-filename=] |
| parameter | filename | Upgrade File Name |
| Return | none |
| Note | This cgi must use the post method to package and send the upgrade file to ip camera。 |
| examples | <form name="form5" method="post" target="retframe" enctype="multipart/form-data" action="cgi-bin/hi3510/upgrade.cgi" > <input type="file" name="setting\_file" > <input type="submit" value="upgrade" ></form> |

# 17、Log

## param.cgi?cmd=logsync

|  |  |
| --- | --- |
| function | Get log information |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=logsync] |
| parameter | none |
| Return | none |
| Note | This CGI is to refresh log information. After execution, access the/log/syslog.txtset log contentNote: When the device restarts, the log will be automatically reset |
| examples | /cgi-bin/hi3510/param.cgi?cmd=logsync/log/syslog.txt |

## param.cgi?cmd=cleanlog

|  |  |
| --- | --- |
| function | DEL log information |
| Power | admin |
| Grammar | /cgi-bin/hi3510/param.cgi[?cmd=cleanlog&-name=] |
| parameter | name | DEL log command name：access：log name |
| Return | Success: Include SuccessFailed: contains Error |
| Note | When there are too many logs, you can use this CGIDEL log information |
| examples | /cgi-bin/hi3510/param.cgi?cmd=cleanlog&-name=sys |

# 18、appendix

## Appendix I Equipment Type Definitions

1. Equipment type

Used to identify the device type. The device functions are the same.

ACSII code, 32 bytes long.

Each field has 2 bytes. The first byte represents the total field type, and the second field represents the field subtype.

|  |  |
| --- | --- |
| field 3 | field 4 |
| LENS |  PTZ type |
| ‘S’ | ‘Z’ |

 3). LENS field ‘S’

 for example 下：

|  |  |  |
| --- | --- | --- |
| ‘e’ | CMOS 720P | Brightness (0-100), Saturation (0-255), Contrast (0-100), Chroma (0-100), Sharpness (0-100), Fast Gate (0-65535), Flip Up and Down, Left and Right Mirroring, Wide Dynamic, Night Vision Mode. First code stream: 720P, Q720P Second code stream: Q720P, QQ720P Third code stream: QQ720PPhone image size: Q720P, QQ720P. |
| ‘f’ | CMOS 720PCMOS 960P | Brightness (0-100), Saturation (0-255), Contrast (0-100), Chroma (0-100), Sharpness (0-100), Fast Gate (0-65535), Flip Up and Down, Left and Right Mirroring, Wide Dynamic, Night Vision Mode.720P (First code stream: 720P Second code stream: Q720P, QQ720P Third code stream: QQ720P Mobile phone image size: Q720P, QQ720P.)960P (First stream: 960P Second stream: VGA, QVGA Third stream: QVGA Phone picture size: VGA, QVGA.) |
| ‘g’ | CMOS 1080PCMOS 720P | Brightness (0-100), Saturation (0-255), Contrast (0-100), Chroma (0-100), Sharpness (0-100), Fast Gate (0-65535), Flip Up and Down, Left and Right Mirroring, Wide Dynamic, Night Vision Mode.1080P (First code stream: 1080P Second code stream: Q720P, QQ720P Third code stream: QQ720P Mobile phone image size: Q720P, QQ720P.)720P (First code stream: 720P Second code stream: Q720P, QQ720P Third code stream: QQ720P Mobile phone image size: Q720P, QQ720P.) |
| ‘h’ | CMOS 720P WDR | Brightness (0-6), Saturation (0-6), Contrast (0-8), Chroma (0-255), Sharpness (0-4), Fast Gate (0-3), Wide Dynamic, Night Vision mode. First code stream: 720P, Q720P Second code stream: Q720P, QQ720P Third code stream: QQ720PPhone image size: Q720P, QQ720P. |
| i | CMOS 1080PCMOS 720P | Brightness (0-100), Saturation (0-255), Contrast (0-100), Chroma (0-100), Sharpness (0-100), Fast Gate (0-65535), Flip Up and Down, Left and Right Mirroring, Wide Dynamic, Night Vision Mode.1080P (First code stream: 1080P Second code stream: Q720P, QQ720P Third code stream: QQ720P Mobile phone image size: Q720P, QQ720P.)720P (First code stream: 720P Second code stream: Q720P, QQ720P Third code stream: QQ720P Mobile phone image size: Q720P, QQ720P.) |
| j | CMOS 1080PCMOS 720P | Brightness (0-100), Saturation (0-255), Contrast (0-100), Chroma (0-100), Sharpness (0-100), Fast Gate (0-65535), Flip Up and Down, Left and Right Mirroring, Wide Dynamic, Night Vision Mode.1080P (First code stream: 1080P Second code stream: Q720P, QQ720P Third code stream: QQ720P Mobile phone image size: Q720P, QQ720P.)720P (First code stream: 720P Second code stream: Q720P, QQ720P Third code stream: QQ720P Mobile phone image size: Q720P, QQ720P.) |
| k | D1 | Brightness (0-100), Saturation (0-255), Contrast (0-100), Chroma (0-100), Sharpness (0-100), Fast Gate (0-65535), Flip Up and Down, Left and Right Mirroring, Night Vision Mode.First code stream: D1, CIF Second code stream: CIF Third code stream: CIFPhone image size: D1. |
| SO | CMOS 5M | Brightness (0-100), Saturation (0-255), Contrast (0-100), Chroma (0-100), Sharpness (0-100), Fast Gate (0-65535), Flip Up and Down, Left and Right Mirroring, Night Vision Mode.The first code stream: 2560 \* 1920, the second code stream: 800 \* 600. |

 4). PTZ field ‘Z’

 for example 下：

|  |  |  |
| --- | --- | --- |
| ‘0’ | custom PTZ  | Up, down, left, right, up, down cruise, left, right cruise, return to the middle center position, and preset calls (up to 8).". "No support for serial port sets, No support for PT Speed" |
| ‘3’ | 485 PTZ  | Up, down, left, right, zoom+, zoom -, preset calls using sets. You can set the s485 port properties. |

## Appendix II: Time Zone Table

|  |  |
| --- | --- |
| Time Zone Field  | Description |
| Etc/GMT-12 | (GMT-12:00) Dateline West |
| Pacific/Apia | (GMT-11:00) Middle Tudao, Samoa |
| Pacific/Honolulu | (GMT-10:00) Hawaii |
| America/Anchorage | (GMT-09:00) Alaska |
| America/Los\_Angeles | (GMT-08:00) Pacific time (US and Canada) |
| America/Denver | (GMT-07:00) Mountain time (US and Canada) |
| America/Tegucigalpa | (GMT-07:00) Chihuahua, La Paz, Masatlan |
| America/Phoenix | (GMT-07:00) Arizona |
| America/Winnipeg | (GMT-06:00) Saskatchewan |
| America/Mexico\_City | (GMT-06:00) Guadalajara, Mexico City, Monterrey |
| America/Chicago | (GMT-06:00) Middle Department time (US and Canada) |
| America/Costa\_Rica | (GMT-06:00) Middle America |
| America/Indianapolis | (GMT-05:00) Indiana (Eastern) |
| America/New\_York | (GMT-05:00) Eastern time (US and Canada) |
| America/Bogota | (GMT-05:00) Bogota, Lima, Rio Blanco |
| America/Santiago | (GMT-04:00) San Diego |
| America/Caracas | (GMT-04:00) La Paz |
| America/Montreal | (GMT-04:00) Atlantic time (Canada) |
| America/St\_Johns | (GMT-03:30) Newfoundland |
| America/Thule | (GMT-03:00) Greenland |
| America/Buenos\_Aires | (GMT-03:00) Buenos Aires, Georgetown |
| America/Sao\_Paulo | (GMT-03:00) Brasilia |
| Atlantic/South\_Georgia | (GMT-02:00) Middle Atlantic |
| Atlantic/Cape\_Verde | (GMT-01:00) Cape Verde Islands |
| Atlantic/Azores | (GMT-01:00) Azores |
| Europe/Dublin | (GMT) Greenwich Mean Time: Dublin, Edinburgh, London, Lisbon |
| Africa/Casablanca | (GMT) Casablanca, Monrovia, Reykjavik |
| Europe/Amsterdam | (GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna |
| Europe/Belgrade | (GMT+01:00) Belgrade, Bratislava, Budapest, Ljubljana, Prague |
| Europe/Brussels | (GMT+01:00) Brussels, Copenhagen, Madrid, Paris |
| Europe/Warsaw | (GMT+01:00) Sarajevo, Skopje, Warsaw, Zagreb |
| Africa/Lagos | (GMT+01:00) Middle Department of West Africa |
| Europe/Athens | (GMT+02:00) Athens, Istanbul, Minsk |
| Europe/Bucharest | (GMT+02:00) Bucharest |
| Africa/Cairo | (GMT+02:00) Cairo |
| Africa/Harare | (GMT+02:00) Harare, Pretoria |
| Europe/Helsinki | (GMT+02:00) Helsinki, Kiev, Riga, Sofia, Tallinn, Vilnius |
| Asia/Jerusalem | (GMT+02:00) Jerusalem |
| Asia/Baghdad | (GMT+03:00) Baghdad |
| Asia/Kuwait | (GMT+03:00) Kuwait, Riyadh |
| Europe/Moscow | (GMT+03:00) Moscow, St. Petersburg, Volgograd |
| Africa/Nairobi | (GMT+03:00) Nairobi |
| Asia/Tehran | (GMT+03:30) Tehran |
| Asia/Dubai | (GMT+04:00) Abu Dhabi, Muscat |
| Asia/Baku | (GMT+04:00) Baku, Tbilisi, Yerevan |
| Asia/Kabul | (GMT+04:30) Kabul |
| Asia/Yekaterinburg | (GMT+05:00) Yekaterinburg |
| Asia/Karachi | (GMT+05:00) Islamabad, Karachi, Tashkent |
| Asia/Calcutta | (GMT+05:30) Madras, Calcutta, Mumbai, New Delhi |
| Asia/Katmandu | (GMT+05:45) Kathmandu |
| Asia/Almaty | (GMT+06:00) Almaty, Novosibirsk |
| Asia/Dhaka | (GMT+06:00) Astana, Dhaka |
| Asia/Colombo | (GMT+06:00) Colombo |
| Asia/Rangoon | (GMT+06:30) Yangon |
| Asia/Bangkok | (GMT+07:00) Bangkok, Hanoi, Jakarta |
| Asia/Krasnoyarsk | (GMT+07:00) Krasnoyarsk |
| Asia/Hong\_Kong | (GMT+08:00) Beijing, Chongqing, Hong Kong Special Administrative Region, Urumqi |
| Asia/Irkutsk | (GMT+08:00) Irkutsk, Ulaanbaatau |
| Asia/Kuala\_Lumpur | (GMT+08:00) Kuala Lumpur, Singapore |
| Australia/Perth | (GMT+08:00) Perth |
| Asia/Taipei | (GMT+08:00) Taipei |
| Asia/Tokyo | (GMT+09:00) Osaka, Sapporo, Tokyo |
| Asia/Seoul | (GMT+09:00) Seoul |
| Asia/Yakutsk | (GMT+09:00) Yakutsk |
| Australia/Adelaide | (GMT+09:30) Adelaide |
| Australia/Brisbane | (GMT+10:00) Brisbane |
| Australia/Sydney | (GMT+10:00) Canberra, Melbourne, Sydney |
| Pacific/Guam | (GMT+10:00) Guam, Port Moresby |
| Australia/Hobart | (GMT+10:00) Hobart |
| Asia/Vladivostok | (GMT+10:00) Vladivostok |
| Asia/Magadan | (GMT+11:00) Magadissen, Solomon Islands, New Caledonia |
| Pacific/Auckland | (GMT+12:00) Auckland, Wellington |
| Pacific/Fiji | (GMT+12:00) Fiji, Kamchatka, Marshall Islands |
| Pacific/Tongatapu | (GMT+13:00) Nukualofa |

# 19、Intelligent humanoid

## param.cgi?cmd=getsmdattr

|  |  |
| --- | --- |
| function | get Intelligent human recognition  |
| Power | admin |
| Grammar | none |
| Note | smd\_enable | 0-Turn off, 1-Turn on |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getsmdattr |

## param.cgi?cmd=setsmdattr

|  |  |
| --- | --- |
| function | sets Intelligent human recognition  |
| Power | admin |
| Grammar | none |
| return | smd\_enable | 0-Turn off, 1-Turn on |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setsmdattr&-smd\_enable=1 |

## param.cgi?cmd= getsmdex

|  |  |
| --- | --- |
| function | get Frame a human figure  |
| Power | admin |
| Grammar | none |
| Note | smd\_rect | 0-Turn off, 1-Turn on |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getsmdex |

## param.cgi?cmd= setsmdex

|  |  |
| --- | --- |
| function | sets Frame a human figure  |
| Power | admin |
| Grammar | none |
| Note | smd\_rect | 0-Turn off, 1-Turn on |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setsmdex&-smd\_rect=1 |

## param.cgi?cmd= getmdalarm

|  |  |
| --- | --- |
| function | get alarm trigger  |
| Power | admin |
| Grammar | none |
| Note | md\_alarm\_type | off- alone trigger , on-linkage trigger  |
| examples | /cgi-bin/hi3510/param.cgi?cmd=getmdalarm&-aname=type |

## param.cgi?cmd= setmdalarm

|  |  |
| --- | --- |
| function | sets alarm trigger  |
| Power | admin |
| Grammar | none |
| Note | md\_alarm\_type | off- alone trigger , on-linkage trigger |
| examples | /cgi-bin/hi3510/param.cgi?cmd=setmdalarm&-aname=type&-switch=on/off |

# 20、 Night Vision ModeNight Vision Mode

## param.cgi?cmd= getlampattrex

|  |  |
| --- | --- |
| function | get Night Vision Mode |
| Power | admin |
| Grammar | none |
| Note | var lamp\_mode | 0-普通夜视,1-全彩夜视,2-智能夜视 |
| examples | cgi-bin/hi3510/param.cgi?cmd=getlampattrex |

## param.cgi?cmd= setlampattrex

|  |  |
| --- | --- |
| function | sets Night Vision Mode |
| Power | admin |
| Grammar | lamp\_mode 0-Normal night vision, 1-Full color night vision, 2-Intelligent night vision |
| Note |  |  |
| examples | cgi-bin/hi3510/param.cgi?cmd=setlampattrex&-lamp\_mode=0 |

# 21、4G

## param.cgi?cmd= get4gattr

|  |  |
| --- | --- |
| function | Get 4G Property |
| Power | admin |
| Grammar | none |
| return | var g4\_runmodevar g4\_simcardvar g4\_statusvar g4\_qualityvar g4\_vervar g4\_mccvar g4\_mncvar g4\_carriervar g4\_apnvar g4\_usernamevar g4\_passwordvar g4\_authtype | 0-auto, 1-manual1. none, 1-have

Status codesignal intensityModule VersionCountry CodeMobile network codeOperatorApn, valid in manual modeuserPasswordAuthentication Type, Integer, Value Currently No Restrictions |
| xamples | cgi-bin/hi3510/param.cgi?cmd=get4gattr |

## param.cgi?cmd= set4gattr

|  |  |
| --- | --- |
| function | Sets 4G Property |
| Power | admin |
| Grammar | none |
| Note |   |   |
| examples | cgi-bin/hi3510/param.cgi?cmd=set4gattr&-g4\_runmode=1&-g4\_apn=cnnet&-g4\_username=&-g4\_password=&-g4\_authtype=0 |