**YUCHENG Camhi IP Camera CGI Manual**

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|  |  |  |  |  |
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| 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=getimageattr  param.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 parameter  2. param.cgi?cmd=getchkwireless  增加了get check WIFIresult |
| 1.4 | Franck Zhao | 2018-02-08 | | 修订 |
|  |  | |  | 1、param.cgi?cmd=getaudioalarmattr  2、param.cgi?cmd=getdevices  3、param.cgi?cmd=gettimerreboot  4、param.cgi?cmd=getlanguage  5、param.cgi?cmd=getmotorrange  6、param.cgi?cmd=getlampctrl  7、param.cgi?cmd=setlampctrl |
| 1.5 | Franck Zhao | | 2019-11-12 | 修订 |
|  |  | |  | 1、/param.cgi?cmd=getsmdattr  2、/param.cgi?cmd=setsmdattr  3、/param.cgi?cmd=getsmdex  4、/param.cgi?cmd=setsmdex  5、/param.cgi?cmd=getmdalarm  5、/param.cgi?cmd=setmdalarm  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=getlampattrex  2、/param.cgi?cmd=setlampattrex  3、/param.cgi?cmd=get4gattr  4、/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\_CIF  20: CIF\_CIF\_CIF  31: 720P\_Q720P\_QQ720P  32: 720P\_QQ720P\_QQ720P  ~~33: Q720P\_Q720P\_QQ720P~~  ~~34: Q720P\_QQ720P\_QQ720P~~  35: 720P\_D1\_CIF  36: 720P\_CIF\_CIF  41: 1080P\_Q720P\_QQ720P  42: 1080P\_QQ720P\_QQ720P  45: 1080P\_D1\_CIF  46: 1080P\_CIF\_CIF  47: 1080P\_QVGA  48: 1080P\_720P  49: 1080P\_Q720PC  51: 960P\_VGA\_QVGA  52: 960P\_QVGA\_QVGA  53:VGA\_VGA\_QVGA  54: VGA\_QVGA\_QVGA  55: 960P\_D1\_CIF  56: 960P\_CIF\_CIF  63: 3M\_450P  64: 3M\_Q720P  65: 1080P\_450P  66: 1080P\_Q720P  67: 3M\_720P  68: 3M\_Q720PC  81: 4M\_450P  82: 4M\_Q720P  83: 4M\_1080P  84: 4M\_Q720PC  85: 4M\_720P  101:5M\_600P  102: 5M\_VGA  121: 4K\_1080P  122:4K\_720P  123:4K\_Q720P |
| vinorm | P: 50Hz(PAL)  N: 60Hz(NTSC) |
| Profile | 0: baseline  1: mainprofile  3: H265 mainprofile |
| var maxchn | Maximum channel number of code stream |
| wdr=0 | 0 linear  1 Wide dynamic |
| remarks | Note：  720P Resolution is 1280x720  Q720PC 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 3840x2160  take 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: baseline  1: mainprofile  3: H265 mainprofile |
| videomode | 17: D1\_CIF\_CIF  20: CIF\_CIF\_CIF  31: 720P\_Q720P\_QQ720P  32: 720P\_QQ720P\_QQ720P  ~~33: Q720P\_Q720P\_QQ720P~~  ~~34: Q720P\_QQ720P\_QQ720P~~  35: 720P\_D1\_CIF  36: 720P\_CIF\_CIF  41: 1080P\_Q720P\_QQ720P  42: 1080P\_QQ720P\_QQ720P  45: 1080P\_D1\_CIF  46: 1080P\_CIF\_CIF  47: 1080P\_QVGA  48: 1080P\_720P  49: 1080P\_Q720PC  51: 960P\_VGA\_QVGA  52: 960P\_QVGA\_QVGA  53:VGA\_VGA\_QVGA  54: VGA\_QVGA\_QVGA  55: 960P\_D1\_CIF  56: 960P\_CIF\_CIF  63: 3M\_450P  64: 3M\_Q720P  65: 1080P\_450P  66: 1080P\_Q720P  67: 3M\_720P  68: 3M\_Q720PC  81: 4M\_450P  82: 4M\_Q720P  83: 4M\_1080P  84: 4M\_Q720PC  85: 4M\_720P  101:5M\_600P  102: 5M\_VGA  121: 4K\_1080P  122:4K\_720P  123:4K\_Q720P |
| Return | wdr=0 | 0 linear  1 Wide dynamic |
| success：contain Success  Failure：contain Error  Take care：  720P=1280x720  Q720PC= 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=3840x2160  Take care：  720P\_ Q720P\_ QQ720P: The first bitstream resolution is 720P, the second bitstream resolution is Q720P, and the third bitstream resolution is QQ720P  Take 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 stream  12: Second code stream  13: 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 rate  1: 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 rate  1: 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 Success  Failed: 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 on  off：Turn off |
| mirror | acoustic image：  on：Turn on  off：Turn off |
| night | Night mode：  on：Turn on  off：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 Mode  0: Frame rate first  1: Illumination priority |
| display\_mode | Current mode  0: Black and white mode  1: 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 on  off：Turn off |
| mirror | Flip image up and down:  on：Turn on  off：Turn off |
| night | Night mode:  on：Turn on  off：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 Mode  0: Frame rate first  1: Illumination priority |
| display\_mode | Current mode  0 represents black and white mode, and 1 represents color mode.  (Setting parameters takes effect only in the corresponding current mode.) |
| Return | Success: Include Success  Error: contains Error | |
| Note | Different equipment parameters are not completely the same. Please refer to Appendix I Equipment Type Definitions for details  The 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 Success  Failed: 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 Success  Failed: 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 | region  0: OSD time zone  1: 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 displayed  0: Hidden  1: Display |
| place\_[region] | 0: Top  1: 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=] | |
| parameter  Return | region | region  0: OSD time zone  1: OSD name area |
| show | Is the OSD displayed  0: Hidden  1: Display |
| place | 0: Top  1: Bottom |
| name | OSD name, only supported in English. Character length cannot exceed 16 |
|  | Success: Include Success  Error: 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 stream  2: 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 stream  2: Minimum resolution of the second code stream |
| Return | Success: Include Success  Failed: 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 stream  12: Second code stream  13: Third code stream |
| Return | aeswitch\_1、aeswitch\_2或aeswitch\_3 | Whether to enable audio encoding  0: Close  1: ON |
| aeformat\_1、aeformat\_2或aeformat\_3 | Audio encoding format  g711a: G711A, 64Kbps  g726: 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 stream  12: Second code stream  13: Third code stream |
| aeswitch | Whether to enable audio encoding  0: Close  1: ON |
| aeformat | Audio encoding format  g711a: G711a 64Kbps  g726: G726 16Kbps |
| Return | Success: Include Success  Failed: 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 input  1: 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=] | |
| parameter  Return | volume | Volume level [1-100] |
| var volin\_type | 0: Linear input  1: Mic input |
|  | Success: Include Success  Failed: 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 Success  Failed: 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 Success  Error: 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 Success  Failed: 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: Off  1: 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: Off  1: 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: Off  1: 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: Off  1: 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: Off  1: 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 Success  Error: 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 status  Auto: automatic  Open: forced on  Close: 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 status  Auto :automatic  Open: forced on  Close: 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 status  Auto: automatic  Open: forced on  Close: 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 status  Auto: automatic  Open: forced on  Close: 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 on  off：Turn off |
| ip | IP address |
| netmask | Subnet mask |
| gateway | gateway |
| dnsstat | DNS status:  0: Manual setting  1: Automatic setting |
| fdnsip | be the first choice DNS |
| sdnsip | Reserve DNS |
| macaddress | MAC address |
| networktype | Network type:  LAN: Wired  WiFi: 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 on  off：Turn off |
| ipaddr | IP address |
| netmask | Subnet mask |
| gateway | gateway |
| dnsstat | DNS status:  0: Manual setting  1: Automatic setting |
| fdnsip | be the first choice DNS |
| sdnsip | Reserve DNS |
| Return | Success: Include Success  Error: 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 Success  Failed: 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=] | |
| parameter  Return | rtspport | RTSPport：scope [80~65535] |
| rtpport | RTPport：scope [5000~8000] |
|  | Success: Include Success  Failed: 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 Success  Failed: 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 off  1：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 off  1：Turn on |
| Return | Success: Include Success  Failed: 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 off  1：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 off  1：Turn on |
| Return | Success: Include Success  Failed: 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 on  1：Turn on  0：Turn off |
| ov\_port | port |
| ov\_authflag | Powerwhether or notverify  1：verify  0：No verify |
| ov\_forbitset  var ov\_snapchn  var ov\_snapchn  var ov\_nvctype | 0：Time zone settings permit，Image parameter sets permit  1：Time zone settings prohibit，Imageparameter sets permit  2：Time zone settings permit，Imageparametersets prohibit  3：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 on  0：Turn off  1：Turn on |
| ov\_port | port |
| ov\_authflag | Powerwhether or notverify  1：verify  0： No verify |
| ov\_forbitset | 0：Time zone settings permit，Imageparametersets permit  1：Time zone settings prohibit，Imageparametersets permit  2：Time zone settings permit，Imageparametersets prohibit  3：Time zone settings prohibit，Imageparametersets prohibit |
| 返回 | Success: Include Success  Failed: 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 off  1：Turn on |
| wf\_ssid | SSID  Maximum 32 characters |
| wf\_auth | Encryption method  0: none Encryption  1: WEP  2: WPA-PSK  3: WPA2-PSK |
| wf\_key | Password |
| wf\_enc | Password Type  0: TKIP  1: AES |
| wf\_mode | Connection method  0: Router mode  1: 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 off  1: Enable |
| wf\_ssid | SSID  Maximum 32 characters |
| wf\_auth | Encryption method  0: none加密  1: WEP  2: WPA-PSK  3: WPA2-PSK |
| wf\_key | Password |
| wf\_enc | Password Type  0: TKIP  1: AES |
| wf\_mode | Connection method  0: Router mode  1: Point to Point Method |
| Return | Success: Include Success  Error: 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 | SSID  Maximum 32 characters |
| wf\_auth | Encryption method  0: none加密  1: WEP  2: WPA-PSK  3: WPA2-PSK |
| wf\_key | Password |
| wf\_enc | Password Type  0: TKIP  1: AES |
| wf\_mode | Connection method  0: Router mode  1: Point to Point Method |
| 返回 | Success: Include Success  Failed: 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 result  0： 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 off  1： 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=] | |
| parameter  Return | our\_enable | whether or not Enable manufacturer DDNS：  0：Turn off  1： Enable |
| our\_server | Server address |
| our\_port | port |
| our\_uname | user |
| our\_passwd | Password |
|  | Success: Include Success  Failed: 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 off  1：Turn on |
| d3th\_service | DDNS Service Provider Type ：  0: dyndns.org  1: 322.org  2: dynddns.us  3: 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 off  1： Enable |
| d3th\_service | DDNS Service Provider Type ：  0：dyndns.org  1：3322.org  2：dynddns.us  3：No-ip.com |
| d3th\_uname | user |
| d3th\_passwd | Password |
| d3th\_domain | host name |
| Return | Success: Include Success  Failed: 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 | |
| parameter  Return | var panrange | horizontal |
| var tiltrange | Vertical |
| var panhome | horizontal centre |
| var tilthome | Vertical centre |
|  | Success: Include Success  Failed: 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 Success  Failed: 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 stop  1: Automatic Stop after single step execution |
| act | Control command, such as:  left： left  right： right  up：Up  down：down  home： 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 Success  Failed: 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：DEL  1： Save |
| number | Preset No. |
| Return | Success: Include Success  Failed: 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 Speed  0：fast  1：middle  2：slow |
| tiltspeed | Vertical Speed  0：fast  1：middle  2：slow |
| panscan | horizontal cruise number |
| tiltscan | Vertical cruise number |
| movehome | self-checking centre  on：Turn on  off：Turn off |
| ptzalarmmask | Turn off alarm when PTZ is moving  on：Turn on  off：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 Speed  0：fast  1：middle  2：slow |
| tiltspeed | Vertical Speed  0：fast  1：middle  2：slow |
| panscan | horizontal cruise Number |
| tiltscan | Vertical cruise Number |
| movehome | self-checking centre  on：Turn on  off：Turn off |
| ptzalarmmask | Turn off alarm when PTZ is moving  on：Turn on  off：Turn off |
| alarmpresetindex | Alarm linkage Preset Preset ，（1-8） |
| 返回 | Success: Include Success  Failed: 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-D  1：PELCO-P |
| address | Address code（0~255） |
| baud | Baud rate |
| databit | Data bits |
| stopbit | Stop bit |
| check | verify：  0：none  1：odd verify  2：even verify  3: Mark  4: 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-D  1：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：noneverify  1：odd verify  2：even verify |
| Speed | Speed（1-63） |
| 返回 | Success: Include Success  Failed: 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 Success  Failed: 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 Success  Failed: 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 Success  Failed: 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 Success  Failed: 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 Success  Failed: 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 Success  Error: 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 off  1： 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 off  1： 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 off  1： 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 off  1： 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 off  1： 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 Success  Failed: 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 off  1：Turn on |
| io\_flag | External alarm mode ：  0：normal close  1： |
| 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 off  1：Turn on |
| io\_flag | External alarm mode ：  0：normal close  1：normally open |
| Return | Success: Include Success  Failed: 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 alarm  Emailsnap: E-mail alerts and sends pictures  Snap: Save image to SD card  Ftpsnap: Save image to FTP server  Record: Save video to SD card  Ftprep: Save video to FTP server  Relay: relay output |
| 返回 | md\_email\_switch | whether or not Enable E-mail alarm function ：  on：Valid  off：Turn off |
| md\_emailsnap\_switch | whether or not Enable E-mail alarm and send image function ：  on：Valid  off：Turn off |
| md\_snap\_switch | whether or not Enable Save image to sd card ：  on：Valid  off：Turn off |
| md\_ ftpsnap \_switch | whether or not Enable Save image to ftp上：  on：Valid  off：Turn off |
| md\_record\_switch | whether or not Enable Save video to sd card：  on：Valid  off：Turn off |
| md\_ftprec\_switch | whether or not Enable Save video to ftp：  on：Valid  off：Turn off |
| md\_relay\_switch | whether or not Enable Relay output：  on：Valid  off：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 ftp  record： Save video to sd card  ftprec： Save video to ftp  relay： Relay output |
| switch | Alarm linkage Preset Option Value：  on： Enable  off：Turn off |
| Return | Success: Include Success  Error: 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 Success  Failed: 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 Success  Failed: 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 arrange  plan : timing record |
| Return | week0=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP  week1=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP  week3=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP  week4=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP  week5=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP  week6=PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP | Number of pictures captured week0: Sunday  Week1: Monday  Week2: Tuesday  Week3: Wednesday  Week4: Thursday  Week5: Friday  Week6: Saturday  P : open  N : 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) |
| week1  week2  week3  week4  week5  week6 | Monday  Tuesday  Wednesday  Thursday  Friday  Saturday |
| Return | Success: Include Success  Error: 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 off  1：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] | |
| parameter  Return | planrec\_enable | whether or notTurn on record  0：Turn off  1：Turn on |
| planrec\_time | record File duration (15-900 seconds) |
| planrec\_chn | record Code rate 11、12、13 |
| function | Success: Include Success  Failed: 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 Success  Failed: 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 | Naming  0: Date time name  1: 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 | Naming  0: Date time name  1: Fixed file name |
| snap\_alarm\_name | alarm Capture Image File Name |
| snap\_timer\_name | Timing Capture Image File Name |
| Return | Success: Include Success  Failed: 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 =] | |
| parameter  Return | 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 Success  Failed: 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 | Power  15：admin  3：user  1：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 off  1：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 off  1：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 off  1：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 used  0：Turn off  1：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 off  1： Enable |
| as\_interval | time interval ，Unit seconds (range: 5-86400) |
| as\_type | Linkage type  snap: Save picture to SD card。  email: send picture to Email  ftp: send picture to FTP server. |
| Return | Success: Include Success  Failed: 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 off  1：Turn on |
| ft\_autocreatedir | Automatically create a directory：  0：Turn off  1：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 off  1：Turn on |
|  | ft\_autocreatedir | Automatically create a directory：  0：Turn off  1：Turn on |
| Return | Success: Include Success  Error: 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 | type  0：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 off  1：SSL  2：TLS  3：STARTTLS |
| ma\_logintype | whether or not Verification Required ：  1：Turn on Verification  3：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 off  1：SSL  2：TLS  3：STARTTLS |
| ma\_logintype | whether or not Verification Required ：  1：Turn on Verification  3：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 Success  Error: 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 reboot  0：Turn off、1：Turn on |
| sr\_day | week：0-6(Sunday - Saturday)，7days |
| sr\_hour | time：0~23 hours |
| Return | Success: Include Success  Failed: 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 reboot  0：Turn off、1：Turn on |
| sr\_day | week：0-6(Sunday - Saturday)，7days |
| sr\_hour | time：0~23 hours |
| Return | Success: Include Success  Failed: 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 Success  Failed: 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 Success  Failed: 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 status  ok：Success  off：un-Enable  failed： fail |
| facddnsstatus | Manufacturer dynamic domain name statusok：Success  off：UN-Enable  failed： fail |
| th3ddnsstatus | third party Dynamic domain name status  ok：Success  off：UN-Enable  failed： fail |
| platformstatus | Plateform status |
| runtimes | Reserved Fields |
| sdstatus | SD card status  out: none SD card  Ready: has sd card  Readonly: 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：Valid  off：Turn off |
| Return | Success: Include Success  Failed: 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.gov  time.kriss.re.kr  time.windows.com  time.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.gov  time.kriss.re.kr  time.windows.com  time.nuri.net |
| ntpinterval | Synchronization interval: range [1 to 24 hours] |
| Return | Success: Include Success  Failed: 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：Valid  off：Turn off |
| cap\_sd | whether or not Enable SD卡：  o on：Valid  off：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：Valid  off：Turn off |
| cap\_sd | whether or not Enable SD卡：  on：Valid  off：Turn off |
| cap\_usb | whether or not Enable USB：  on：Valid  off：Turn off |
| Return | Success: Include Success  Failed: 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 Success  Failed: 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 Success  Failed: 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 content  Note: 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 Success  Failed: 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: QQ720P  Phone image size: Q720P, QQ720P. |
| ‘f’ | CMOS 720P  CMOS 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 1080P  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.  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: QQ720P  Phone image size: Q720P, QQ720P. |
| i | CMOS 1080P  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.  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 1080P  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.  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: CIF  Phone 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\_runmode  var g4\_simcard  var g4\_status  var g4\_quality  var g4\_ver  var g4\_mcc  var g4\_mnc  var g4\_carrier  var g4\_apn  var g4\_username  var g4\_password  var g4\_authtype | 0-auto, 1-manual   1. none, 1-have   Status code  signal intensity  Module Version  Country Code  Mobile network code  Operator  Apn, valid in manual mode  user  Password  Authentication 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 | |