Camera HTTP API User Guide

Version 5

2021-12

Revision History	Description	Data
Version 1.0	Initial version	2016-06-01
Revision 1		
Version 1.1	1. Add the interface of short connection	2016-11-07
Revision 2	accessing CGI.	
	2. Add rtmp port parameter to GetNetPort and	
	SetNetPort interfaces.	
	3. Add hourFmt parameter to GetTime and	
	SetTime interfaces.	
	4. Add streamType and interval parameters to	
	GetFtp and SetFtp interfaces.	
	5. Add schedule parameter to GetEmail and	
	SetEmail interfaces.	
	6. Add GetPush and SetPush interfaces.	
	7. Remove enable, action and schedule	
	parameters to GetAlarm and SetAlarm	
	interfaces.	
	8. Add emailSchedule, pushSchedule and	
	hourFmt to GetAbility interface.	
Version 1.2	Add UpgradePrepare	2019-4-26
Revision 3	2. Add Shutdown	
	3. Add GetAuth and SetAuth	
	4. Add Getcloud and Setcloud	

	5. Get3G and Set3G	
	6. GetP2p and SetP2p	
	7. Add Preview	
	8. Add rtmp=start and rtmp=stop and	
	rtmp=auth for rtmp	
	Ptz add GetPtzSerial SetPtzSerial	
	GetPtzTattern SetPtzTattern command	
	10. camera increace GetAutoFocus	
	SetAutoFocus command of focus	
	11. LED increace GetIrLights SetIrLights	
	GetPowerLed SetPowerLed command	
	12. Add GetAudioAlarm SetAudioAlarm	
	13. Add HeartBeat	
	14. Add GetCrop SetCrop	
	15. Add GetAutoUpgrade SetAutoUpgrade	
	CheckFirmware UpgradeOnline	
	UpgradeStatus in ststem mode	
Version 1.3	Ptz add GetPtzSerial SetPtzSerial	2019-9-30
Revision 4	GetPtzTattern SetPtzTattern command	
	2. System delete ImportCfg	
	3. Security delete GetAuth SetAuth	
	4. Alarm add SetAudioAlarm	
	5. Complete the responsed code	
Version 1.4	1. Merge CGI commands for NVR and IPC	2021-01-05
Revision 5		

Version 1.5	1、Al add GetAiCfg SetAiCfg GetAiState	2021-12-03
Revision 6	2、ptz add GetZoomFocus StartZoomFocus	
	GetPtzGuard SetPtzGuard	
	GetPtzCheckState	
	PtzCheck	
	3、alarm add AudioAlarmPlay	
	4、LED update GetWhiteLed SetWilteLed	
	5、system update GetAbility	
	6、Network update GetFtpV20 SetFtpV20	
	TestFtp GetNetPort SetNetPort	
	7、Network add GetCertificateInfo	
	CertificateClear GetRtspUrl	
	8、video input update SetIsp GetIsp	
	9、Enc update GetEnc	
	10、Response update Error	

Contents

1 Scope	9
2 HTTP & Json	9
2.1 Protocol	9
2.2 JSON	9
2.3 token	10
2.4 Abbreviations	11
2.5 Definitions	11
2.6 Example	11
2.6.1 Get token first	11
2.6.2 Execute command GetUpnp	12
2.7 Preview	13
2.8 Short Connection	13
3 commands	14
3.1 System	14
3.1.1 GetAbility	14
3.1.2 GetDevInfo	45
3.1.3 GetDevName	47
3.1.4 SetDevName	49
3.1.5 GetTime	50
3.1.6 SetTime	55
3.1.7 GetAutoMaint	58
3.1.8 SetAutoMaint	60
3.1.9 GetHddInfo	61
3.1.10 Format	63
3.1.11 Upgrade	64
3.1.12 Restore	65
3.1.13 Reboot	66
3.1.14 UpgradePrepare	67
3.1.15 GetAutoUpgrade	68
3.1.16 SetAutoUpgrade	70
3.1.17 CheckFirmware	71
3.1.18 UpgradeOnline	72
3.1.19 UpgradeStatus	73
3.1.20 Getchannelstatus	74
3.2 Security	78
3.2.1 Login	78
3.2.2 Logout	79
3.2.3 GetUser	80
3.2.4 AddUser	82
3.2.5 DelUser	83
3.2.6 ModifyUser	84
3.2.7 GetOnline	85
3.2.8 Disconnect	86
3.3 Network	88
3.3.1 GetLocalLink	88
3.3.2 SetLocalLink	90
3.3.3 GetDdns	92
3.3.4 SetDdns	94
3.3.5 GetEmail	95
3.3.6 SetEmail	99

3.3.7 GetEmailV20	101
3.3.8 SetEmailV20	104
3.3.9 TestEmail	105
3.3.10 GetFtp	107
3.3.11 SetFtp	111
3.3.12 GetFtpV20	113
3.3.13 SetFtpV20	119
3.3.14 TestFtp	122
3.3.15 GetNtp	124
3.3.16 SetNtp	126
3.3.17 GetNetPort	128
3.3.18 SetNetPort	129
3.3.19 GetUpnp	131
3.3.20 SetUpnp	132
3.3.21 GetWifi	133
3.3.22 SetWifi	135
3.3.23 TestWifi	136
3.3.24 ScanWifi	137
3.3.25 GetWifiSignal	139
3.3.26 GetPush	140
3.3.27 SetPush	142
3.3.28 GetPushV20	143
3.3.29 SetPushV20	145
3.3.30 GetPushCfg	147
3.3.31 SetPushCfg	149
3.3.32 GetP2p	150
3.3.33 SetP2p	152
3.3.34 GetCertificateInfo	153
3.3.35 CertificateClear	154
3.3.36 GetRtspUrl	155
3.4 Video input	156
3.4.1 GetNorm	156
3.4.2 SetNorm	158
3.4.3 GetImage	159
3.4.4 SetImage	161
3.4.5 GetOsd	162
3.4.6 SetOsd	165
3.4.7 Getlsp	167
3.4.8 SetIsp	171
3.4.9 GetMask	174
3.4.10 SetMask	176
3.4.11 Preview	179
3.4.12 GetCrop	180
3.4.13 SetCrop	182
3.5 Enc	184
3.5.1 GetEnc	184
3.5.2 SetEnc	190
3.6 Record	192
3.6.1 GetRec	192
3.6.2 SetRec	194
3.6.3 GetRecV20	196
3.6.4 SetRecV20	199
3.6.5 Search	201
3.6.6 Download	206

	3.6.7 Snap	207
	3.6.8 Playback	208
	3.6.9 NvrDownload	209
	3.7 PTZ	211
	3.7.1 GetPtzPreset	211
	3.7.2 SetPtzPreset	231
	3.7.3 GetPtzPatrol	232
	3.7.4 SetPtzPatrol	237
	3.7.5 PtzCtrl	238
	3.7.6 GetPtzSerial	241
	3.7.7 SetPtzSerial	243
	3.7.8 GetPtzTattern	245
	3.7.9 SetPtzTattern	249
	3.7.10 GetAutoFocus	250
	3.7.11 SetAutoFocus	252
	3.7.12 GetZoomFocus	253
	3.7.13 StartZoomFocus	254
	3.7.14 GetPtzGuard	255
	3.7.15 SetPtzGuard	257
	3.7.16 GetPtzCheckState	258
	3.7.17 PtzCheck	259
	3.8 Alarm	260
	3.8.1 GetAlarm	260
	3.8.2 SetAlarm	269
	3.8.3 GetMdAlarm	273
	3.8.4 SetMdAlarm	288
	3.8.5 GetMdState	293
	3.8.6 GetAudioAlarm	294
	3.8.7 SetAudioAlarm	296
	3.8.8 GetAudioAlarmV20	297
	3.8.9 SetAudioAlarmV20	300
	3.8.10 GetBuzzerAlarmV20	302
	3.8.11 SetBuzzerAlarmV20	305
	3.8.12 AudioAlarmPlay	307
	3.9 RTMP	308
	3.9.1 rtmp=start	308
	3.9.2 rtmp=stop	309
	3.9.3 rtmp=auth	311
	3.10 LED	312
	3.10.1 GetIrLights	312
	3.10.2 SetIrLights	313
	3.10.3 GetPowerLed	314
	3.10.4 SetPowerLed	316
	3.10.5 GetWhiteLed	317
	3.10.6 SetWhiteLed	319
	3.10.7 GetAiAlarm	321
	3.10.7 SetAiAlarm	324
	3.10.8 SetAlarmArea	327
	3.11 Al	330
	3.11.1 GetAiCfg	330
	3.11.2 SetAiCfg	331
	3.11.3 GetAiState	333
4	Response	335
т.	4.1 Error	335
		333

1 Scope

The document defines a series of HTTP and HTTPS based application programming interface, covering the System, Security, Network, Video input, Enc, Record, PTZ, and Alarm modules.

The document applies to both IPC and NVR products, and the difference will be explained in the commands.

2 HTTP & Json

2.1 Protocol

Support both HTTP and HTTPS.

And only support the POST method, get and set all through it.

POST /cgi-bin/api.cgi?cmd=xxx&token=20343295¶mxxx=xxx HTTP/1.1

The payload type is a JSON or file that is specified by Content-Type.

Content-Type = "application/octet-stream" or "application/json"

2.2 JSON

JSON (JavaScript Object Notation) is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999.

```
Request:
[
       {
              "cmd":string,
    "action":int,
              "param":
              {
                     "name": val, // val = string or int
              },
       }
]
Response:
[
       {
              "cmd":string,
```

2.3 token

Token is the only global certification of developers. Token is required whenever developers are calling each port. Normally the lease for each token is 3600 seconds and you may regain it after it expires. Please refer to the Login command for the methods of requiring token.

2.4 Abbreviations

For the purposes of the present document, the following abbreviations apply:

M/O Mandatory/Optional

2.5 Definitions

For the purposes of the present document, the following definitions apply:

initial: The initial value of the configuration.

range: The data range of the configuration.

value: The current value of the configuration.

action: Obtain initial, range and value when the value is 1, obtain only the value

when the value is 0.

channel: The channel number of the current device.

2.6 Example

2.6.1 Get token first

Request:

```
Post /cgi-bin/api.cgi?cmd=Login HTTP/1.1
```

```
Response:
```

```
HTTP/1.1 200 OK
 Server: nginx/1.14.2
  Date: Wed, 25 Sep 2019 06:34:59 GMT
  Content-Type: text/html
 Transfer-Encoding: chunked
  Connection: keep-alive
     Pragma: O-cache
     Cache-Control: O-cache
     Content-Type: application/json; charset=utf-8
[
   "cmd": "Login",
   "code": 0,
   "value" : {
   "Token" : {
      "leaseTime": 3600,
      "name": "011465962723"
    }
  }
 }
```

2.6.2 Execute command GetUpnp

Request:

```
Post /cgi-bin/api.cgi?cmd=GetUpnp&token=011465962723 HTTP/1.1
```

Response:

```
HTTP/1.1 200 OK
Server: nginx/1.14.2
```

Date: Wed, 25 Sep 2019 06:50:49 GMT Content-Type: text/html Transfer-Encoding: chunked Connection: keep-alive Pragma: O-cache Cache-Control: O-cache Content-Type: application/json;charset=utf-8 ["cmd": "GetUpnp", "code": 0, "initial" : { "Upnp" : { "enable": 0 } }, "range" : { "Upnp": { "enable" : "boolean" } }, "value" : { "Upnp": { "enable": 0 } } }

Note: Either cmd or token or both should be existed when requesting URL.

2.7 Preview

Protocol	RTMP
Request URL	rtmp://192.168.2.120/bcs/channel{channelId}_{streamName}
	.bcs?token=TOKEN&channel={channelId}&stream={streamTy
	pe}
Field	Description
token	The only global certification of developers. Please refer to the Login command for the methods of requiring token.

channel	The channel number of the device (channel id)
stream	Stream type[0,1,2]

Note: The correspondences between the streamName and streamType in Request

URL is shown as follow:

Main Stream: streamName=main, streamType=0.

Sub Stream: streamName=sub, streamType=1.

Extern Stream: streamName=ext, streamType=2.

2.8 Short Connection

The short connection interface is for users to skip the process of logging in to the IP Camera to get token. In this way, users just need the user name and password to access the IP Camera easily. Here is how short connection works.

e.g. Previewing:

rtmp://IPC_IP/bcs/channel0_main.bcs?channel=0&stream=0&user=admin&password=xxxx

http://IPC_IP/flv?port=1935&app=bcs&stream=channel0_main.bcs&user=admin&password=xxxx

e.g. Snapping picture:

http://IPC_IP/cgi-bin/api.cgi?cmd=Snap&channel=0&rs=Get&user=admin&password =xxxx

3 commands

3.1 System

3.1.1 GetAbility

Interface Description

It is used to get system ability of appointed user.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetAbility&token=TOKEN

Post Data

Return data description

current user ability.

Return data correctly

Each domain is corresponding to a functional module. The permit field marks access right, validating in least significant three bits: the most significant bit indicates execution permission, the first bit indicates revision permission, and the second bit indicates read/write permission. The ver field indicates the version

number. 0 means the feature is not supported in that version, nonzero means the feature is supported. Different version numbers indicate those certain functional modules support different functional options.

```
[
   "cmd": "GetAbility",
   "code": 0,
   "value" : {
     "Ability": {
      "3g":{
        "permit": 0,
        "ver":0
      "abilityChn" : [
        {
          "aiTrack" : {
            "permit": 0,
            "ver" : 0
          "alarmAudio": {
            "permit": 0,
            "ver":0
          },
          "alarmIoIn" : {
            "permit": 0,
            "ver":0
          "alarmIoOut" : {
            "permit": 0,
            "ver":0
          "alarmMd" : {
            "permit": 6,
            "ver" : 1
          },
          "alarmRf" : {
            "permit": 0,
            "ver":0
          "batAnalysis": {
            "permit": 0,
            "ver":0
          },
          "battery" : {
            "permit": 0,
            "ver" : 0
```

```
},
"cameraMode": {
 "permit" : 6,
 "ver" : 0
"disableAutoFocus" : {
 "permit": 0,
 "ver" : 0
},
"enc" : {
 "permit": 6,
 "ver" : 1
},
"floodLight": {
 "permit": 0,
 "ver" : 0
},
"ftp" : {
 "permit" : 6,
 "ver" : 6
},
"image" : {
 "permit" : 6,
 "ver" : 1
"indicatorLight": {
 "permit": 0,
 "ver" : 0
},
"isp" : {
 "permit" : 6,
 .
"ver" : 1
"isp3Dnr" : {
 "permit": 0,
 "ver" : 0
"ispAntiFlick" : {
 "permit": 6,
 "ver" : 1
},
"ispBackLight" : {
 "permit": 0,
 "ver" : 0
"ispBright" : {
 "permit" : 6,
 "ver" : 1
```

```
"ispContrast" : {
 "permit" : 6,
 "ver" : 1
"ispDayNight" : {
 "permit" : 6,
 "ver" : 1
},
"ispExposureMode" : {
 "permit": 0,
 "ver" : 0
},
"ispFlip" : {
 "permit" : 6,
 "ver" : 1
},
"ispHue" : {
 "permit": 0,
 "ver" : 0
},
"ispMirror" : {
 "permit" : 6,
 "ver" : 1
"ispSatruation" : {
 "permit": 6,
 "ver" : 1
},
"ispSharpen" : {
 "permit" : 6,
 .
"ver" : 1
"ispWhiteBalance" : {
 "permit" : 6,
 "ver" : 0
"ledControl" : {
 "permit": 5,
 "ver" : 2
},
"live" : {
 "permit": 4,
 "ver" : 1
"mainEncType" : {
 "permit": 0,
 "ver" : 1
```

```
},
"mask" : {
 "permit" : 6,
 "ver" : 1
"mdTriggerAudio" : {
 "permit": 0,
 "ver" : 0
},
"mdTriggerRecord" : {
 "permit": 0,
 "ver" : 0
},
"mdWithPir" : {
 "permit": 0,
 "ver" : 0
},
"osd" : {
 "permit" : 6,
 "ver" : 1
},
"powerLed" : {
 "permit": 0,
 "ver" : 0
"ptzCtrl" : {
 "permit": 0,
 "ver" : 0
"ptzDirection" : {
 "permit": 1,
 "ver" : 0
"ptzPatrol" : {
 "permit": 0,
 "ver" : 0
"ptzPreset" : {
 "permit": 0,
 "ver" : 0
},
"ptzTattern" : {
 "permit": 0,
 "ver" : 0
"ptzType" : {
 "permit" : 0,
 "ver" : 0
```

```
},
"recCfg" : {
 "permit": 6,
 "ver" : 1
},
"recDownload" : {
 "permit" : 6,
 "ver" : 1
},
"recReplay" : {
 "permit" : 6,
 "ver" : 1
},
"recSchedule" : {
 "permit" : 6,
 "ver" : 2
"shelterCfg": {
 "permit" : 6,
 "ver" : 1
},
"snap" : {
 "permit" : 6,
 "ver" : 1
"supportAi" : {
 "permit": 6,
 "ver" : 1
},
"supportAiAnimal" : {
 "permit": 0,
 "ver" : 0
"supportAiDetectConfig" : {
 "permit": 6,
 "ver" : 1
"supportAiDogCat" : {
 "permit" : 6,
 "ver" : 1
},
"supportAiFace" : {
 "permit": 0,
 "ver" : 0
"supportAiPeople": {
 "permit" : 6,
 "ver" : 1
```

```
"supportAiSensitivity" : {
 "permit" : 6,
 "ver" : 1
"supportAiStayTime" : {
 "permit" : 6,
 "ver" : 1
},
"supportAiTargetSize": {
 "permit" : 6,
 "ver" : 1
},
"supportAiTrackClassify" : {
 "permit": 0,
 "ver" : 0
"supportAiVehicle" : {
 "permit": 6,
 "ver" : 1
},
"supportAoAdjust" : {
 "permit": 0,
 "ver" : 0
"supportFLBrightness" : {
 "permit": 0,
 "ver" : 0
},
"supportFLIntelligent" : {
 "permit": 0,
 "ver" : 0
"supportFLKeepOn": {
 "permit": 0,
 .
"ver" : 0
"supportFLSchedule" : {
 "permit": 0,
 "ver" : 0
},
"supportFLswitch" : {
 "permit": 0,
 "ver" : 0
"supportGop" : {
 "permit" : 0,
 "ver" : 0
```

```
"supportPtzCheck" : {
     "permit": 0,
     "ver" : 0
   "supportThresholdAdjust" : {
     "permit": 6,
     "ver" : 1
   },
   "supportWhiteDark" : {
     "permit" : 6,
     "ver" : 1
   },
   "videoClip": {
     "permit" : 6,
     "ver" : 2
   "waterMark" : {
     "permit" : 6,
     "ver" : 1
   },
   "white_balance" : {
     "permit" : 6,
     "ver" : 0
   }
 }
"alarmAudio" : {
 "permit": 0,
 "ver" : 0
"alarmDisconnet" : {
 "permit" : 6,
 "ver" : 1
"alarmHddErr" : {
 "permit" : 6,
 "ver" : 1
"alarmHddFull": {
 "permit" : 6,
 "ver" : 1
"alarmIpConflict" : {
 "permit": 6,
 "ver" : 1
},
"auth" : {
```

```
"permit" : 6,
 "ver" : 1
"autoMaint" : {
 "permit" : 6,
 "ver" : 1
},
"cloudStorage" : {
 "permit": 0,
 "ver" : 0
"customAudio": {
 "permit": 0,
 "ver":0
},
"dateFormat" : {
 "permit" : 6,
 "ver":1
},
"ddns" : {
 "permit" : 6,
 "ver" : 9
},
"ddnsCfg": {
 "permit": 6,
 "ver" : 1
"devInfo" : {
 "permit": 4,
 "ver" : 1
"devName" : {
 "permit": 6,
 "ver" : 2
},
"disableAutoFocus" : {
 "permit": 0,
 "ver":0
"disk" : {
 "permit": 0,
 "ver":0
"display" : {
 "permit" : 6,
 "ver" : 1
},
"email" : {
```

```
"permit" : 6,
 "ver":3
"emailInterval" : {
 "permit" : 6,
 "ver" : 1
},
"emailSchedule": {
 "permit" : 6,
 "ver" : 1
"exportCfg": {
 "permit": 4,
 "ver":0
},
"ftpAutoDir" : {
 "permit" : 6,
 "ver" : 1
"ftpExtStream": {
 "permit" : 6,
 "ver" : 1
"ftpPic": {
 "permit": 0,
 "ver" : 0
"ftpSubStream" : {
 "permit": 6,
 "ver" : 1
"ftpTest" : {
 "permit": 6,
 "ver" : 0
},
"hourFmt" : {
 "permit" : 6,
 "ver" : 2
"http" : {
 "permit" : 6,
 "ver":3
},
"httpFlv": {
 "permit" : 6,
 "ver" : 1
},
"https" : {
```

```
"permit" : 6,
 "ver":3
"importCfg" : {
 "permit" : 1,
 .
"ver" : 0
},
"ipcManager" : {
 "permit": 6,
 "ver" : 1
"ledControl": {
 "permit": 7,
 "ver":3
},
"localLink" : {
 "permit" : 6,
 "ver" : 1
},
"log" : {
 "permit" : 6,
 "ver" : 1
},
"mediaPort" : {
 "permit": 6,
 "ver" : 1
},
"ntp":{
 "permit" : 6,
 "ver" : 1
},
"online" : {
 "permit": 6,
 "ver" : 1
},
"onvif" : {
 "permit": 6,
 "ver":3
"p2p":{
 "permit" : 6,
 "ver" : 1
"performance" : {
 "permit" : 4,
 "ver" : 1
"pppoe" : {
```

```
"permit": 6,
 "ver": 0
"push" : {
 "permit" : 6,
 .
"ver" : 1
"pushSchedule" : {
 "permit" : 6,
 "ver" : 1
"reboot": {
 "permit": 1,
 "ver" : 1
},
"recExtensionTimeList": {
 "permit" : 6,
 "ver" : 1
"recOverWrite" : {
 "permit" : 6,
 "ver" : 1
},
"recPackDuration" : {
 "permit": 6,
 "ver" : 0
"recPreRecord": {
 "permit": 6,
 "ver" : 1
"restore" : {
 "permit": 1,
 "ver" : 1
},
"rtmp" : {
 "permit" : 6,
 "ver":3
"rtsp" : {
 "permit" : 6,
 "ver" : 3
"scheduleVersion" : {
 "permit" : 6,
 "ver" : 1
},
"sdCard": {
```

```
"permit": 6,
 "ver" : 1
"showQrCode": {
 "permit": 6,
 "ver" : 0
},
"simMoudule" : {
 "permit": 6,
 "ver":0
"supportAudioAlarm": {
 "permit": 0,
 "ver":0
},
"supportAudioAlarmEnable" : {
 "permit": 0,
 "ver":0
"supportAudioAlarmSchedule" : {
 "permit": 0,
 "ver":0
},
"supportAudioAlarmTaskEnable" : {
 "permit": 0,
 "ver" : 0
"supportBuzzer" : {
 "permit": 0,
 "ver" : 0
"supportBuzzerEnable": {
 "permit": 0,
 "ver" : 0
},
"supportBuzzerTask" : {
 "permit": 0,
 "ver":0
"supportBuzzerTaskEnable" : {
 "permit": 0,
 "ver" : 0
"supportEmailEnable": {
 "permit": 6,
 "ver" : 1
"supportEmailTaskEnable" : {
```

```
"permit" : 6,
 "ver" : 1
"supportFtpCoverPicture" : {
 "permit": 6,
 "ver" : 1
"supportFtpCoverVideo" : {
 "permit": 6,
 "ver" : 1
"supportFtpDirYM" : {
 "permit" : 6,
 "ver" : 1
},
"supportFtpEnable": {
 "permit" : 6,
 "ver":1
"supportFtpPicCaptureMode" : {
 "permit": 6,
 "ver" : 1
},
"supportFtpPicResoCustom" : {
 "permit": 6,
 "ver" : 1
"supportFtpPictureSwap" : {
 "permit": 6,
 "ver" : 1
"supportFtpTask" : {
 "permit" : 6,
 "ver" : 1
"supportFtpTaskEnable" : {
 "permit": 6,
 "ver":1
"supportFtpVideoSwap" : {
 "permit" : 6,
 "ver" : 1
"supportFtpsEncrypt" : {
 "permit": 6,
 "ver" : 1
"supportHttpEnable" : {
```

```
"permit": 6,
 "ver" : 1
"supportHttpsEnable" : {
 "permit": 6,
 "ver" : 1
},
"supportOnvifEnable" : {
 "permit": 6,
 "ver" : 1
"supportPushInterval" : {
 "permit": 6,
 "ver" : 1
},
"supportRecScheduleEnable": \{\\
 "permit" : 6,
 "ver" : 1
"supportRecordEnable" : {
 "permit" : 6,
 "ver" : 1
},
"supportRtmpEnable": {
 "permit": 6,
 "ver" : 1
"supportRtspEnable" : {
 "permit": 6,
 "ver" : 1
},
"talk" : {
 "permit": 4,
 "ver" : 0
},
"time" : {
 "permit" : 6,
 "ver" : 2
"tvSystem" : {
 "permit": 6,
 "ver":0
"upgrade" : {
 "permit": 1,
 "ver" : 2
"upnp" : {
```

```
"permit" : 6,
   "ver" : 1
 "user" : {
   "permit" : 6,
   "ver" : 1
 },
 "videoClip" : {
   "permit" : 6,
   "ver" : 2
 "wifi" : {
   "permit" : 0,
   "ver" : 0
 "wifiTest" : {
   "permit": 6,
   "ver" : 0
}
```

Field description

Field	ver	permit
abilityChn-> mask	0: not support, 1:support	1:option
abilityChn->image	0: not support, 1:support	2:write
abilityChn->isp	0: not support, 1:support	4: read
abilityChn->white_balance	0: not support, 1:support	7: read &
abilityChn->cameraMode	0: not support, 1:support	write &
abilityChn->osd	0: not support, 1:support, 2:	option
	support osd and distinct osd	
abilityChn->waterMark	0: not support, 1:support	
abilityChn->enc	0: not support set encode cfg,	
	1:support set encode cfg	

abilityChn->live	0: not support 1:support	
abinty cini > nvc		
	main/extern/sub stream;	
	2:support main/sub stream	
abilityChn->snap	0: not support snap, 1:support	
	snap	
abilityChn->ftp	0: not support ftp; ver>0:support	
	ftp	
	(1: support stream	
	2: support jpg picture + stream	
	3: support Stream + mode	
	selection	
	4: support jpg picture + stream +	
	mode selection	
	5: support Stream + mode	
	selection + stream type selection	
	6: support jpg picture + stream +	
	mode selection + stream type	
	selection)	
abilityChn->recCfg	0: not support, 1:support	
abilityChn->recSchedule	0: not support,	
	1:support md record,	
	2:support md record and normal	
	record	
abilityChn->recDownload	0: not support download record	
	file, 1:support download record	
	l .	

	file
abilityChn->recReplay	0: not support playback record
	file online, 1:support playback
	record file online file
abilityChn->ptzType	0: Does not support PTZ or does
	not have permission to operate
	1:support AF
	2: support PTZ
	3: support PT
	4: Simulated ball machine
	5: PTZ (GM8136S PTZ) does not
	support speed adjustment
abilityChn->ptzCtrl	0:not support,
	1: support control zoom
	2: support control zoom and focus
	with slider
abilityChn->ptzPreset	0:not support,
	1: support
abilityChn->ptzPatrol	0:not support,
	1: support
abilityChn->ptzTattern	0:not support,
	1: support
abilityChn->ptzDirection	0: support 8 directions + auto
	scan, 1: support only 4 directions,
	no auto scan

abilityChn->alarmIoIn	0:not support,	
	1: support	
abilityChn->alarmIoOut	0:not support,	
	1: support	
abilityChn->alarmRf	0:not support,	
	1: support	
abilityChn->alarmMd	0:not support,	
	1: support	
abilityChn->disableAutoFocus	0:not support set auto fucus,	
	1: support set auto fucus	
abilityChn->floodLight	0:not support White light LED,	
	1: support White light LED	
abilityChn->battery	0:not support,	
	1: support	
abilityChn->indicatorLight	O:not support indicator Light,	
	1: support indicator Light	
abilityChn->videoClip	0:not support video Cutout	
	1: support cutout width and	
	height cannot be modified;	
	2: support cutout width and	
	height can be modified	
abilityChn->powerLed	0:not support,	
	1: support	
abilityChn->mainEncType	0: main stream enc type is H264	
	1:main stream enc type is H265	

	T	
abilityChn->ispDayNight	0:not support day_night mode	
	1:support day_night mode	
	2: Support day and night mode	
	and support setting switching	
	threshold	
abilityChn->ispAntiFlick	0:not support	
	1:support	
abilityChn->ispExposureMode	0:not support	
	1:support	
abilityChn->ispWhiteBalance	0:not support	
	1:support	
abilityChn->ispBackLight	0:not support	
	1:support	
abilityChn->isp3Dnr	0:not support	
	1:support	
abilityChn->ispMirror	0:not support	
	1:support	
abilityChn->ispFlip	0:not support	
	1:support	
abilityChn->ispBright	0:not support	
	1:support	
abilityChn->ispContrast	0:not support	
	1:support	
abilityChn->ispSatruation	0:not support	
	1:support	

abilityChn->ispHue	0:not support	
, .		
	1:support	
abilityChn->ispSharpen	0:not support	
	1:support	
abilityChn->floodLight	0:not support	
	1: Support white light, 2: Support	
	white light automatic mode	
abilityChn->mdWithPir	0:not support	
	1:support	
abilityChn->mdTriggerAudio	0:not support	
	1:support	
abilityChn->mdTriggerRecord	0:not support	
	1:support	
abilityChn->shelterCfg	0:not support	
	1:support	
abilityChn->alarmAudio	0:not support	
	1:support	
abilityChn->batAnalysis	0:not support	
	1:support	
abilityChn->waterMark	0:not support	
	1:support	
abilityChn->ledControl	0:not support	
	1:support	
abilityChn->supportPtzCheck	0:not support	
	1:support	

hourFmt	0:not support	
	1: support change hour formate	
time	0:not support	
	1: Daylight saving time only	
	supports Sunday;	
	2: Supports any day of the week	
tvSystem	0:not support	
	1:support	
display	0:not support	
	1:support	
ipcManager	0:not support	
	1:support	
devInfo	0:not support	
	1:support	
autoMaint	0:not support	
	1:support	
restore	0:not support	
	1:support	
reboot	0:not support	
	1:support	
log	0:not support	
	1:support	
performance	0:not support	
	1:support	

upgrade	0:not support	
	1:support manual upgrade	
	2: support manual upgrade and	
	upgrade online	
importCfg	0:not support	
	1:support	
exportCfg	0:not support	
	1:support	
disk	0:not support	
	1:support	
sdCard	0:not support	
	1:support	
devName	0:not support	
	1:support	
auth	0:not support	
	1:support	
user	0:not support	
	1:support	
online	0:not support	
	1:support	
rtsp	0:not support	
	1:support	
rtmp	0:not support	
	1:support	
ddns	0:not support	

	1:swan	
	2:3322	
	3:dyndns	
	4:swann+3322	
	5:swann+dyndns	
	6:3322+dyndns	
	7:swann+3332+dyndns	
	8:noip	
	9:dyndns+noip	
ddnsCfg	0: Does not support entering	
	ddns server address	
	1: Support input ddns server	
	address	
email	0: Mail function is not supported	
	1: Support jpg attachment	
	2: Support video and jpg	
	attachments	
	3: Support video and jpg	
	attachments, support sender	
	nickname	
emailSchedule	0: Schedule is not supported	
	1: Support schedule	
upnp	0:not support	
	1:support	

onvif	0:not support	
	1:support	
ntp	0:not support	
	1:support	
mediaPort	0:not support	
	1:support	
http	0:not support	
	1:support	
https	0:not support	
	1:support	
httpFlv	0:not support	
	1:support	
р2р	0:not support	
	1:support	
3g	0:not support	
	1:support	
localLink	0:not support	
	1:support	
pppoe	0:not support	
	1:support	
Wifi	0:not support	
	1:support	
Push	0:not support	
	1:support	
pushSchedule	0:not support	

	1:support	
Talk	0:not support	
	1:support	
alarmHddErr	0:not support	
	1:support	
alarmHddFull	0:not support	
	1:support	
alarmDisconnet	0:not support	
	1:support	
alarmIpConflict	0:not support	
	1:support	
ledControl	0:not support	
	1:support	
disableAutoFocus	0:not support	
	1:support	
videoClip	1: Cutout width and height	
	cannot be modified;	
	2: Cutout width and height can be	
	modified	
alarmAudio	0:not support	
	1:support	
cloudStorage	bit0: Whether to support cloud	
	upload	
	bit1: Whether to support cloud	
	service configuration	

	bit3: Whether to support cloud	
	upload deployment	
scheduleVersion	0: support cmd: "GetRec"	
	,"SetRec"," GetEmail"," SetEmail","	
	GetFtp", "SetFtp", "GetPush",	
	"SetPush", "GetAudioAlarm",	
	"SetAudioAlarm",	
	"GetCloudSchedule","SetCloudSch	
	edule","GetAlarm","SetAlarm"	
	1: support cmd:	
	"GetRecV20" ,"SetRecV20","	
	GetEmailV20"," SetEmailV20","	
	GetFtpV20", "SetFtpV20",	
	"GetPushV20", "SetPushV20",	
	"GetAudioAlarmV20",	
	"SetAudioAlarmV20",	
	"GetCloudScheduleV20",	
	"SetCloudScheduleV20";	
	"GetMdAlarm"	
	"SetMdAlarm"	
customAudio	0:not support	
	1:support	
wifiTest	0:not support	
	1:support	

simMoudule	0:not support	
	1:support	
dateFormat	0:not support	
	1:support	
emailInterval	0:not support	
	1:support	
showQrCode	0:not support	
	1:support	
ftpTest	0:not support	
	1:support	
ftpSubStream	0:not support	
	1:support	
ftpExtStream	0:not support	
	1:support	
ftpPic	0:not support	
	1:support	
ftpAutoDir	0:not support	
	1:support	
recOverWrite	0:not support	
	1:support	
recPackDuration	0:not support	
	1:support	
recPreRecord	0:not support	
	1:support	
recExtensionTimeList	0:not support	

	1:support	
supportAudioAlarm	0:not support	
	1:support	
supportAudioAlarmEnable	0:not support	
	1:support	
supportAudioAlarmSchedule	0:not support	
	1:support	
supportAudioAlarmTaskEnable	0:not support	
	1:support	
supportFtpTask	0:not support	
	1:support	
supportBuzzer	0:not support	
	1:support	
supportBuzzerEnable	0:not support	
	1:support	
supportBuzzerTask	0:not support	
	1:support	
supportBuzzerTaskEnable	0:not support	
	1:support	
supportRecordEnable	0:not support	
	1:support	
supportRecScheduleEnable	0:not support	
	1:support	
supportEmailEnable	0:not support	
	1:support	

supportEmailTaskEnable	0:not support	
	1:support	
	1.5αρροιτ	
supportFtpEnable	0:not support	
	1:support	
supportFtpTaskEnable	0:not support	
	1:support	
supportAi	0:not support	
	1:support	
supportAiAnimal	0:not support	
	1:support	
supportAiDetectConfig	0:not support	
	1:support	
supportAiDogCat	0:not support	
	1:support	
supportAiFace	0:not support	
	1:support	
supportAiPeople	0:not support	
	1:support	
supportAiSensitivity	0:not support	
	1:support	
supportAiStayTime	0:not support	
	1:support	
supportAiTargetSize	0:not support	
	1:support	
supportAiVehicle	0:not support	

	1:support	
anno ant A a A alimat		
supportAoAdjust	0:not support	
	1:support	
supportFLBrightness	0:not support	
	1:support	
supportFLIntelligent	0:not support	
	1:support	
supportFLKeepOn	0:not support	
	1:support	
supportFLSchedule	0:not support	
	1:support	
supportFLswitch	0:not support	
	1:support	
supportGop	0:not support	
	1:support	
supportPtzCheck	0:not support	
	1:support	
supportThresholdAdjust	0:not support	
	1:support	
supportWhiteDark	0:not support	
	1:support	
support Audio Alarm	0:not support	
	1:support	
supportAudioAlarmEnable	0:not support	
	1:support	

supportAudioAlarmSchedule	0:not support	
	1:support	
support Audio Alarm Task Enable	0:not support	
	1:support	
supportBuzzer	0:not support	
	1:support	
supportBuzzerEnable	0:not support	
	1:support	
supportBuzzerTask	0:not support	
	1:support	
supportBuzzerTaskEnable	0:not support	
	1:support	
supportEmailEnable	0:not support	
	1:support	
supportEmailTaskEnable	0:not support	
	1:support	
supportFtpCoverPicture	0:not support	
	1:support	
supportFtpCoverVideo	0:not support	
	1:support	
supportFtpDirYM	0:not support	
	1:support	
supportFtpPicCaptureMode	0:not support	
	1:support	
supportFtpPicResoCustom	0:not support	

	1:support	
supportFtpPictureSwap	0:not support	
	1:support	
supportFtpTask	0:not support	
	1:support	
supportFtpTaskEnable	0:not support	
	1:support	
supportFtpVideoSwap	0:not support	
	1:support	
supportFtpsEncrypt	0:not support	
	1:support	
supportHttpEnable	0:not support	
	1:support	
supportHttpsEnable	0:not support	
	1:support	
supportOnvifEnable	0:not support	
	1:support	
supportPushInterval	0:not support	
	1:support	
supportRecScheduleEnable	0:not support	
	1:support	
supportRecordEnable	0:not support	
	1:support	
supportRtmpEnable	0:not support	
	1:support	

supportRtspEnable	0:not support	
	1:support	

3.1.2 GetDevInfo

Interface Description

It is used to get device information.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetDevInfo&token=TOKEN

Post Data

```
"B485": 1,
    "IOInputNum": 0,
    "IOOutputNum": 0,
    "audioNum": 16,
    "buildDay": "build 20080734",
    "cfgVer": "v3.0.0.0",
    "channelNum": 16,
    "detail": "NVR652410104001000200000",
    "diskNum": 2,
    "exactType": "NVR",
    "firmVer": "v3.0.0.59_20080734",
    "frameworkVer": 1,
    "hardVer": "H3MB18",
    "model": "RLN16-410",
    "name": "NVR",
    "pakSuffix": "pak,paks",
    "serial": "00000000000000",
    "type": "NVR",
    "wifi" : 0
   }
 }
}
```

Field description

Field	description
IOInputNum	The number of IO input port.
IOOutputNum	The number of IO output port.
buildDay	The establish date.
cfgVer	The version number of configuration information.
channelNum	The channel number.
detail	The details of device information.
diskNum	The number of USB disk or SD card.
firmVer	The version number of the firmware.
hardVer	The version number of the hardware.
name	Device name.

type	Device type.
wifi	Whether Wi-Fi is supported.
B485	
exactType	
frameworkVer	

3.1.3 GetDevName

• Interface Description

It is used to get configuration of DevName.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetDevName&token=TOKEN

Post Data

```
| Comd | GetDevName | Compared |
```

3.1.4 SetDevName

Interface Description

It is used to set configuration of DevName.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetDevName&token=TOKEN

```
Data example

[{
     "cmd": "SetDevName",
     "param": {
        "DevName": {
```

```
"name": "camera101"
}

Field description

Field Description M/O

channel Index of channel M
```

3.1.5 GetTime

• Interface Description

It is used to get time from device.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetTime&token=TOKEN

Post Data

```
Return data correctly
   "cmd" : "GetTime",
   "code": 0,
   "initial" : {
    "Dst" : {
      "enable" : 0,
      "endHour": 2,
      "endMin": 0,
      "endMon": 10,
      "endSec": 0,
      "endWeek": 5,
      "endWeekday": 0,
      "offset": 1,
      "startHour": 2,
      "startMin": 0,
      "startMon": 3,
      "startSec": 0,
      "startWeek": 2,
      "startWeekday": 0
    "Time" : {
      "day": 1,
```

```
"hour": 0,
   "hourFmt": 0,
   "min": 0,
   "mon":0,
   "sec": 0,
   "timeFmt": "DD/MM/YYYY",
   "timeZone": 28800,
   "year" : 0,
          "hourFmt": 0
 }
},
"range" : {
 "Dst" : {
   "enable": "boolean",
   "endHour" : {
    "max": 23,
    "min":0
   },
   "endMin" : {
    "max" : 59,
    "min":0
   "endMon": {
    "max": 12,
    "min":1
   "endSec" : {
    "max": 59,
    "min": 0
   },
   "endWeek": {
    "max" : 5,
    "min":1
   },
   "endWeekday": {
    "max" : 6,
    "min":0
   },
   "offset" : {
    "max" : 2,
    "min":1
   "startHour" : {
    "max": 23,
    "min": 0
   "startMin" : {
    "max" : 59,
```

```
"min":0
 },
 "startMon" : {
   "max": 12,
   "min":1
 "startSec" : {
   "max": 59,
   "min": 0
 },
 "startWeek" : {
  "max" : 5,
   "min":1
 "startWeekday": {
   "max" : 6,
   "min":0
 }
},
"Time" : {
 "day" : {
  "max": 31,
   "min":1
 },
 "hour" : {
   "max" : 23,
   "min" : 0
 "hourFmt" : {
   "max": 1,
   "min":0
 },
 "min" : {
  "max" : 59,
   "min": 0
 },
 "mon" : {
   "max": 12,
   "min":1
 },
 "sec" : {
   "max": 59,
   "min" : 0
 "timeFmt": ["MM/DD/YYYY", "YYYY/MM/DD", "DD/MM/YYYY"],
 "timeZone" : {
   "max": 43200,
   "min": -46800
```

```
"year" : {
      "max": 2100,
      "min": 1900
     }
   }
  },
 "value" : {
   "Dst" : {
     "enable": 0,
     "endHour": 2,
     "endMin": 0,
     "endMon": 10,
     "endSec": 0,
     "endWeek": 5,
     "endWeekday": 0,
     "offset": 1,
     "startHour": 2,
     "startMin": 0,
     "startMon": 3,
     "startSec": 0,
     "startWeek": 2,
     "startWeekday": 0
   },
   "Time" : {
     "day": 23,
     "hour": 20,
     "hourFmt": 0,
     "min": 59,
     "mon": 12,
     "sec": 40,
     "timeFmt": "DD/MM/YYYY",
     "timeZone": 28800,
     "year" : 2020,
            "hourFmt": 0
   }
  }
}
```

Field description

Field	description
Dst	Daylight Savings Time
enable	Enable Daylight Savings Time

endHour	The end of Daylight Savings Time(Hour)
endMin	The end of Daylight Savings Time(Minute)
endMon	The end of Daylight Savings Time(Month)
endSec	The end of Daylight Savings Time(Second)
endWeek	The end of Daylight Savings Time(Week)
endWeekday	The end of Daylight Savings Time(Day)
offset	Time offset
startHour	Daylight Savings Time starting time(Hour)
startMin	Daylight Savings Time starting time(Minute)
startMon	Daylight Savings Time starting time(Month)
startSec	Daylight Savings Time starting time(Second)
startWeek	Daylight Savings Time starting time(Week)
startWeekday	Daylight Savings Time starting time(Day)
Time	System time
year	Year
mon	Month
day	Day
hour	Hour
min	Minute
sec	Second
timeFmt	Time format
timeZone	Time zone
hourFmt	Hour format,0 is for 24 hour clock, 1 is for 12 hour clock
<u> </u>	!

3.1.6 SetTime

Interface Description

It is used to set time of the device.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetTime&token=TOKEN

```
Data example
  "cmd":"SetTime",
  "param" : {
    "Dst" : {
      "enable": 0,
      "endHour": 2,
      "endMin": 0,
      "endMon": 10,
      "endSec": 0,
      "endWeek": 5,
      "endWeekday": 0,
      "offset": 1,
      "startHour": 2,
      "startMin": 0,
      "startMon": 3,
      "startSec": 0,
      "startWeek": 2,
      "startWeekday": 0
    },
    "Time" : {
      "day": 6,
      "hour": 20,
      "min":9,
      "mon": 6,
      "sec": 32,
      "timeFmt": "DD/MM/YYYY",
      "timeZone": -28800,
      "year" : 2016,
      "hourFmt": 0
```

} } 1

Field description

Field	Description	M/O
Dst	See also GetTime	0
enable	See also GetTime	0
endHour	See also GetTime	0
endMin	See also GetTime	0
endMon	See also GetTime	0
endSec	See also GetTime	0
endWeek	See also GetTime	0
endWeekday	See also GetTime	0
offset	See also GetTime	0
startHour	See also GetTime	0
startMin	See also GetTime	0
startMon	See also GetTime	0
startSec	See also GetTime	0
startWeek	See also GetTime	0
startWeekday	See also GetTime	0
year	See also GetTime	0
mon	See also GetTime	0
day	See also GetTime	0
hour	See also GetTime	0
min	See also GetTime	0
sec	See also GetTime	0

timeFmt	See also GetTime	0
timeZone	See also GetTime	0
hourFmt	See also GetTime	0

```
Return data correctly

[
{
    "cmd": "SetTime",
    "code": 0,
    "value": {
        "rspCode": 200
    }
}

Field description

Field description
```

3.1.7 GetAutoMaint

Interface Description

It is used to get device automatic maintenance information.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetAutoMaint&token=TOKEN

Data example	

```
{
    "cmd":"GetAutoMaint",
    "action":1
    }
]
Field description

Field Description

M/O
```

```
Return data correctly
[
 {
   [
   "cmd": "GetAutoMaint",
   "code": 0,
   "initial" : {
    "AutoMaint" : {
      "enable": 0,
      "hour": 0,
      "min": 0,
      "sec": 0,
      "weekDay" : "Sunday"
    }
   },
   "range" : {
    "AutoMaint" : {
      "enable": "boolean",
      "hour" : {
        "max" : 23,
        "min":0
      },
      "min" : {
        "max": 59,
        "min": 0
      },
      "sec" : {
       "max" : 59,
        "min": 0
      "weekDay" : [
        "Everyday",
```

```
"Sunday",
    "Monday",
    "Tuesday",
    "Wednesday",
    "Thursday",
    "Friday",
    "Saturday"
   ]
 }
},
"value" : {
 "AutoMaint" : {
   "enable" : 1,
   "hour": 2,
   "min": 0,
   "sec" : 0,
   "weekDay" : "Sunday"
```

Field description

Field	description
enable	Auto maintainance of enable/disable switch
hour	Hour
min	Minute
sec	Second
weekDay	The day of the week

3.1.8 SetAutoMaint

Interface Description

It is used to set device automatic maintenance information.

• Interface call instructions

Post Data

```
Data example
  "cmd": "SetAutoMaint",
  "param":{
   "AutoMaint":{
    "enable":1,
    "weekDay":"Everyday",
    "hour":3,
    "min":52,
    "sec":4
   }
Field description
                                                                      M/O
Field
                Description
enable
                See also GetAutoMaint
                                                                          0
hour
                See also GetAutoMaint
                                                                          0
min
                See also GetAutoMaint
                                                                          0
                See also GetAutoMaint
                                                                          0
sec
weekDay
                See also GetAutoMaint
                                                                          0
```

```
"rspCode" : 200
}

Field description

Field description
```

3.1.9 GetHddInfo

• Interface Description

It is used to get hard disks or sd-Card information of device.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetHddInfo&token=TOKEN

Post Data

```
Return data correctly

[
{
    "cmd" : "GetHddInfo",
    "code" : 0,
```

```
"value" : {
    "HddInfo" : [
        {
            "capacity" : 938610,
            "format" : 1,
            "mount" : 1,
            "number" : 1,
            "size" : 549219,
            "storageType" : 1
        }
        ]
    }
    }
}
```

Field description

Field	description
capacity	The capacity of HDD or SD card(Mb)
format	Whether it is formatted or not
id	Index for HDD or SD card
mount	Whether it is mounted or not
size	The remaining capacity (Mb)
storageType	Type of storage
number	

3.1.10 Format

• Interface Description

It is used to format hard disks or SD-Card.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=Format&token=TOKEN

Post Data

```
| Comd": "Format",
| "param": {
| "HddInfo": {
| "id": [0]
| }
| }
| }
| Field description

| Field Description | M/O |
| id Index of the hard disk or sd-Card that you want to format.
```

```
Return data correctly

[
{
    "cmd": "Format",
    "code": 0,
    "value": {
        "rspCode": 200
    }
    }
]

Field description

Field description
```

3.1.11 Upgrade

Interface Description

It is used to upgrade the firmware of the device. Must send cmd $\mbox{\sc UpgradePrepare}$ first

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=Upgrade&clearConfig=%d&token=
	TOKEN

Request parameter description

Parameter	M/O	Description
clearConfig	М	Whether to clear the configuration mark

Post Data

Data example

Content-Type: multipart/form-data;

boundary=----WebKitFormBoundaryYkwJBwvTHAd3Nukl

Referer: http://192.168.2.232/?1466148584152

Accept-Encoding: gzip, deflate Accept-Language: zh-CN,zh;q=0.8

-----WebKitFormBoundaryYkwJBwvTHAd3Nukl

Content-Disposition: form-data; name="upgrade-package"; filename="xxx.pak"

Content-Type: application/octet-stream

xxxxxxxxxxxx.....(File content)

-----WebKitFormBoundaryYkwJBwvTHAd3Nukl--

Note: This command can only carry up to 40K packets at a time, and it needs to be called several times to complete the device update

 •	v	 ption

Field	Description	M/O

boundary	Delimiter	М
filename	The name of the update file	М
name	Bound to be "upgrade-package"	М

```
Return data correctly

[
{
    "cmd": "Upgrade",
    "code": 0,
    "value": {
        "rspCode": 200
    }
}

Field description

Field description
```

3.1.12 Restore

Interface Description

It is used to reset all configurations of the device to the factory default.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=Restore&token=TOKEN

Data example		

```
[
    "cmd":"Restore"
    }
]

Field description

Field Description M/O
```

```
Return data correctly

[
{
    "cmd": "Restore",
    "code": 0,
    "value": {
        "rspCode": 200
    }
}
]

Field description

Field description
```

3.1.13 Reboot

• Interface Description

It is used to reboot the device.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=Reboot&token=TOKEN

```
Return data correctly

[
{
    "cmd":"Reboot",
    "code":0,
    "value":{
        "rspCode":200
    }
}
]

Field description

Field description
```

3.1.14 UpgradePrepare

• Interface Description

It is used to check that the upgrade file is legal or not. Combined use with cmd upgrade

• Interface call instructions

Request URL	http://IPC_IP/ api.cgi?cmd=UpgradePrepare&token=TOKEN

```
Data example
       "cmd": "UpgradePrepare",
       "action":1,
       "param":
          "restoreCfg":0,
          "fileName":"XXX.pak"
   }
Field description
Field
                Description
                                                                       M/O
                Whether to clear the configuration mark
restoreCfg
                                                                      M
fileName
                The file name of the upgrade file
                                                                      M
```

```
Return data correctly

[
{
    "cmd" : " UpgratePrepare ",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field description

rspCode Response code
```

3.1.15 GetAutoUpgrade

• Interface Description

It is used to get device automatic upgrade information.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= GetAutoUpgrade&token=TOKEN

POST Data

```
}
},
"value":{
   "AutoUpgrade":{
      "enable":1
   }
}

Field description

Field description

rspCode Response code
```

3.1.16 SetAutoUpgrade

Interface Description

It is used to set device automatic upgrade information.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= SetAutoUpgrade &token=TOKEN

POST Data

Field	Description	M/O
		М

```
Return data correctly

[
{
    "cmd" : " SetAutoUpgrade ",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}
]

Field description

Field description

rspCode Response code
```

3.1.17 CheckFirmware

• Interface Description

It is used to check for new upgrade file of online upgrades

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= CheckFirmware&token=TOKEN

Data example	
{	

```
"cmd":" CheckFirmware"
}

Field description

Field Description

M/O
```

3.1.18 UpgradeOnline

Interface Description

It is used to startonline upgrade when check for a new version

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= UpgradeOnline &token=TOKEN

POST Data

• Return data description

```
Return data correctly

[
{
    "cmd" : " UpgradeOnline ",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
}

Field description

Field Response code
```

3.1.19 UpgradeStatus

• Interface Description

It is used to Check file download progress during online upgrade

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= UpgradeStatus &token=TOKEN

POST Data

```
Return data correctly

[
{
    "cmd":"UpgradeStatus",
    "code":0,
    "value":{
        "Status":{
        "Persent":0,
        "code":0
      }
    }
}

Field description

Field description

rspCode Response code
```

3.1.20 Getchannelstatus

• Interface Description

It is used to get configuration of channelstatus.

• Interface call instructions

Request URL	http://NVR_IP/api.cgi?cmd=Getchannelstatus&token=TOKEN

Post Data

```
"channel": 1,
  "name" : "",
 "online" : 0,
 "typeInfo":""
},
  "channel": 2,
 "name" : "",
  "online": 0,
 "typeInfo": ""
},
 "channel": 3,
 "name" : "",
 "online" : 0,
 "typeInfo": ""
},
 "channel" : 4,
 "name" : "",
 "online": 0,
 "typeInfo": ""
},
  "channel":5,
 "name": "",
  "online": 0,
 "typeInfo": ""
},
 "channel": 6,
 "name" : "",
 "online": 0,
 "typeInfo": ""
},
  "channel": 7,
 "name" : "",
  "online": 0,
 "typeInfo":""
},
 "channel": 8,
 "name" : "",
 "online" : 0,
 "typeInfo": ""
},
```

```
"channel": 9,
       "name" : "",
      "online" : 0,
      "typeInfo":""
     },
      "channel" : 10,
      "name" : "",
      "online": 0,
      "typeInfo": ""
     },
      "channel" : 11,
      "name" : "",
      "online": 0,
      "typeInfo": ""
     },
      "channel" : 12,
      "name" : "",
      "online": 0,
      "typeInfo": ""
     },
       "channel": 13,
      "name": "",
      "online": 0,
      "typeInfo": ""
      "channel" : 14,
      "name" : "",
      "online": 0,
      "typeInfo": ""
     },
       "channel": 15,
      "name" : "",
       "online": 0,
       "typeInfo":""
}
```

Field description

Field	description
channel	Channel number
name	Device name
online	Whether online or not
typeinfo	Infomation of type

3.2 Security

3.2.1 Login

• Interface Description

It is used to get Token.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=Login

```
Data example

[
{
    "cmd":"Login",
    "param":{
    "User":{
     "userName":"admin",
     "password":""
    }
}
}

Field description

M/O
```

userName	Account name, limit 1~31 characters.	М
password	Account password, limit 1~31 characters.	0

```
Return data correctly
 {
   "cmd": "Login",
   "code": 0,
   "value" : {
    "Token" : {
      "leaseTime": 3600,
      "name": "031465962723"
    }
 }
Field description
Field
                     description
                     Lease time by second.
leaseTime
                     Token string, length should be less than 32 characters.
name
```

3.2.2 Logout

• Interface Description

It is used to release Token.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=Logout&token=TOKEN

```
Return data correctly

[
{
    "cmd" : "Logout",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
}

Field description

Field Response code
```

3.2.3 GetUser

• Interface Description

It is used to get all users' infomation.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetUser&token=TOKEN

POST Data

```
Return data correctly
   "cmd": "GetUser",
   "code": 0,
   "initial" : {
    "User" : {
      "level": "guest"
    }
   },
   "range" : {
    "User" : {
      "level" : [ "guest", "admin" ],
      "password" : {
       "maxLen" : 31,
        "minLen": 6
      },
      "userName" : {
       "maxLen": 31,
        "minLen": 1
    }
   "value" : {
```

```
"User" : [
       "level": "admin",
       "userName" : "admin"
   }
 }
Field description
Field
                     description
level
                     User competence
userName
                     User name
maxlen
                     Max length
minlen
                     Min length
```

3.2.4 AddUser

Interface Description

It is used to set configuration of user.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=AddUser&token=TOKEN

```
"level":"guest"
   }
 }
Field description
                                                                   M/O
Field
               Description
userName
               Account name.
                                                                   Μ
               Account password.
                                                                   Μ
password
               User competence
level
                                                                   Μ
Note: Can add up to 20 users
```

```
Return data correctly

[
{
    "cmd" : "AddUser",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
]

Field description

Field Response code
```

3.2.5 DelUser

• Interface Description

It is used to del configuration of user.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=DelUser&token=TOKEN

POST Data

```
Return data correctly

[
{
    "cmd" : "DelUser",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field description
```

rspCode	Response code

3.2.6 ModifyUser

Interface Description

It is used to modify configuration of user.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=ModifyUser&token=TOKEN

POST Data

Field description

Field	Description	M/O
userName	Account name.	M
password	Account password.	M

• Return data description

Return data correctly

3.2.7 GetOnline

Interface Description

It is used to get all onlusers' infomation.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetOnline&token=TOKEN

```
"userName":"admin"
         },
         ... // There may be multiple online users.
    }
  }
Field description
Field
                      description
                      When the field value is 1, the online user can be forced to
canbeDisconn
                      disconnect. When the value is 0, the reverse is the case.
                      The IP address of the online user.
ip
level
                      User competence for online users
                      Session id distributed to online users by the system, it is
sessionId
                      used to force the user to go offline.
                      The online user's login account.
userName
```

3.2.8 Disconnect

Interface Description

It is used to disconnect configuration of user.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=Disconnect&token=TOKEN

```
Return data correctly

[
{
    "cmd" : "Disconnect",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
}

Field description

Field description

rspCode Response code
```

3.3 Network

3.3.1 GetLocalLink

Interface Description

It is used to get configuration of Local Link.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetLocalLink&token=TOKEN

POST Data

```
"type" : "DHCP"
   }
  },
  "range" : {
   "LocalLink" : {
     "dns" : {
      "auto": "boolean",
       "dns1":{
        "maxLen" : 15
      },
      "dns2" : {
        "maxLen" : 15
      }
     },
     "static" : {
      "gateway" : {
        "maxLen" : 15
      "ip" : {
        "maxLen" : 15
      },
       "mask" : {
        "maxLen" : 15
      }
     "type" : [ "DHCP", "Static" ]
   }
  "value" : {
   "LocalLink" : {
     "activeLink": "LAN",
     "dns" : {
      "auto": 1,
      "dns1": "192.168.2.1",
      "dns2": "114.114.114.114"
     "mac": "ec:71:db:0f:93:91",
     "static" : {
      "gateway": "192.168.2.1",
      "ip": "192.168.3.38",
      "mask": "255.255.252.0"
     "type" : "DHCP"
   }
 }
}
```

Field description	
Field	description
activeLink	Network connection type [LAN, Wi-Fi]
mac	Network card's hardware address
type	Network IP's distrbuiting way, [DHCP, Static]
Static->ip	Ip address
Static->gateway	Gateway address
Static->mask	Subnet mask
Dns->auto	Whether auto get ddns or not
Dns->dns1	Preferred DNS Server.
Dns->dns2	Alternate DNS server.

3.3.2 SetLocalLink

• Interface Description

It is used to set configuration of LocalLink.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetLocalLink&token=TOKEN

```
"static":{
       "ip":"192.168.2.122",
      "mask":"255.255.255.0",
      "gateway":"192.168.2.1"
   },
"dns":{
"auto
       "auto":0,
       "dns1":"202.96.128.166",
      "dns2":"202.96.134.133"
}
```

Field description

Field	Description	M/O
type	Network IP's distrbuiting way, [DHCP, Static]	0
Static->ip	Ip address	0
Static->gateway	Gateway address	0
Static->mask	Subnet mask	0
Dns->auto	Whether auto get ddns or not [0, 1]	0
Dns->dns1	Preferred DNS Server.	0
Dns->dns2	Alternate DNS server.	0

```
Return data correctly
   "cmd": "SetLocalLink",
   "code": 0,
   "value" : {
    "rspCode": 200
   }
 }
```

Field description	
Field	description
rspCode	Response code

3.3.3 GetDdns

Interface Description

It is used to get configuration of Email.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetDdns&token=TOKEN

POST Data

```
"Ddns" : {
     "domain": "",
    "enable" : 1,
    "password":"",
    "servAddr": "dynupdate.no-ip.com", //NVR
     "type": "no-ip",
    "userName" : ""
   }
 },
 "range" : {
   "Ddns" : {
    "domain" : {
      "maxLen": 127
    "enable": "boolean",
     "password": {
      "maxLen" : 127
    },
     "servAddr" : {
                        //NVR
      "maxLen": 127,
      "servAddrList": {
        "Dyndns": "members.dyndns.org",
        "no-ip": "dynupdate.no-ip.com"
      }
     "type" : [ "no-ip", "Dyndns" ],
     "userName" : {
      "maxLen" : 127
    }
   }
 },
 "value" : {
   "Ddns" : {
    "domain": "",
    "enable": 1,
    "password" : "",
    "servAddr": "dynupdate.no-ip.com", //NVR
     "type" : "no-ip",
     "userName": ""
   }
 }
}
```

Field description

Field

description

domain	The domain which you set.
enable	Ddns enable switch.
type	Ddns Server type.Range of value is ["3322", "Dyndns"].
userName	Ddns userName.
password	Ddns password.
servAddr	Server address

3.3.4 SetDdns

Interface Description

It is used to set configuration of DDNS.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetDdns&token=TOKEN

POST Data

Field description

Field	Description	M/O
domain	The domain which you set.	0

enable	Ddns enable switch.	0
type	Ddns Server type.Range of value is ["3322",	0
	"Dyndns"].	
userName	Ddns userName.	0
password	Ddns password.	0

```
Return data correctly

[
{
    "cmd" : " SetDdns",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
]

Field description

Field description

rspCode Response code
```

3.3.5 GetEmail

• Interface Description

It is used to get configuration of Email.

• Interface call instructions

Request URL http://IPC_IP/api.cgi?cmd=GetEmail&token=	OKEN
---	------

POST Data

```
Return data correctly
[
  "cmd": "GetEmail",
  "code": 0,
  "initial" : {
   "Email" : {
   "addr1" : "",
    "addr2": "",
    "addr3": "",
    "attachment" : "picture",
    "interval": "5 Minutes",
    "nickName": "NVR", //NVR
    "password":"",
    "schedule" : {
    "enable": 0,
     "table":
},
    "smtpPort": 465,
    "smtpServer": "smtp.gmail.com",
    "ssl": 1,
    "userName": ""
  }
  "range" : {
```

```
"Email" : {
      "addr1" : {
       "maxLen": 127
      "addr2" : {
       "maxLen" : 127
      },
      "addr3" : {
       "maxLen" : 127
      },
      "attachment" : [ "no", "picture", "video", "onlyPicture" ],
      "interval" : [ "30 Seconds", "1 Minute", "5 Minutes", "10 Minutes", "30
Minutes"],
      "nickName" : { //NVR
        "maxLen": 127
      "password" : {
        "maxLen": 31
      "schedule" : {
        "enable": "boolean",
        "table" : {
         "maxLen": 168,
         "minLen": 168
       }
      },
      "smtpPort" : {
       "max": 65535,
       "min":1
      "smtpServer": {
       "maxLen": 127
      "ssl": "boolean",
      "userName" : {
        "maxLen" : 127
      }
    }
   "value" : {
    "Email" : {
      "addr1": "",
      "addr2": "",
      "addr3": "",
      "attachment": "picture",
      "interval": "30 Minutes",
      "nickName": "NVR", //NVR
      "password": "*****"
```

Field description

Field	description
smtpServer	Email server of sender,at most 127 characters.
smtpPort	Port of Email server, limit 1~65535.
userName	Sender address, at most 127 characters.
password	Sender password,at most 31 characters.
attachment	The type of email attachment.
ssl	Whether to open the encryption mode, the type of ssl is
	Boolean.
interval	Send mail interval.
addr1	Recver address1, at most 127 characters.
addr2	Recver address2, at most 127 characters.
addr3	Recver address3, at most 127 characters.
Schedule->enable	Whether email receive the alarm information
Schedule->table	The schedule about when email receives the alarm
	information

Note:

When scheduleVersion ver=1 in the capability set, use cmd "GetEmailV20"

3.3.6 SetEmail

Interface Description

It is used to set configuration of Email.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetEmail&token=TOKEN

```
Data example
  "cmd":"SetEmail",
  "param":{
    "Email":{
     "smtpServer": "smtp.exmail.qq.com",
     "smtpPort":25,
     "userName":"xxx@sz-bcs.com.cn",
     "password":"xxxxxx",
     "attachment":"video",
     "ssl":0,
     "interval": "5 Minutes",
     "addr1":"xxx@sz-bcs.com.cn",
     "addr2":"xxx@sz-bcs.com.cn",
                  "addr3":"xxx@sz-bcs.com.cn",
     "schedule" : {
      "enable": 1,
      "table":
}
   }
```

Field	Description	М/О
smtpServer	Email server of sender, at most 127 characters.	0
smtpPort	Port of Email server, limit 1~65535.	0
userName	Sender address, at most 127 characters.	0
password	Sender password, at most 31 characters.	0
attachment	The type of email attachment. Range of value is ["O",	0
	"picture", "video", "onlyPicture"].	
Ssl	Whether to open the encryption mode, the type of ssl	0
	is Boolean.	
interval	Send mail interval. Range of value is ["30 Seconds", "1	0
	Minute", "5 Minutes", "10 Minutes"].	
addr1	Recver address1,at most 127 characters.	0
addr2	Recver address2,at most 127 characters.	0
addr3	Recver address3,at most 127 characters.	0
Schedule->en	Whether email receive the alarm information [0, 1]	0
able		
Schedule->tab	The schedule about when email receives the alarm	0
le	information	

```
Return data correctly

[
    "cmd" : "SetEmail",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
]

Field description

Field description

rspCode Response code

Note:

When scheduleVersion ver=1 in the capability set, use cmd "SetEmailV20"
```

3.3.7 GetEmailV20

• Interface Description

It is used to get configuration of Email.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetEmailV20&token=TOKEN

}		
Field description	on	
Field	Description	M/O

```
Return data correctly
 "cmd": "GetEmailV20",
 "code": 0,
 "value" : {
 "Email" : {
  "addr1": "xxx@sz-bcs.com.cn",
  "addr2": "xxx@sz-bcs.com.cn",
  "addr3": "xxx@sz-bcs.com.cn",
  "attachmentType": 2,
  "diskErrorAlert": 0,
  "diskFullAlert": 0,
  "enable" : 0,
  "interval": "5 Minutes",
  "nickName": "NVR",
  "password": "xxxxxx",
  "schedule" : {
  "channel": 0,
  "table" : {
   "AI PEOPLE":
"AI VEHICLE":
"MD" :
"VL":
```

```
}
},
"smtpPort": 25,
"smtpServer": "smtp.exmail.qq.com",
"ssl": 0,
"supportTextType": 1,
"supportVideo": 1,
"textType": 1,
"userName": "xxx@sz-bcs.com.cn"
}
}
}
```

Field description

Field	description
smtpServer	Email server of sender,at most 127 characters.
smtpPort	Port of Email server, limit 1~65535.
userName	Sender address,at most 127 characters.
password	Sender password,at most 31 characters.
attachmentType	The type of email attachment.
Ssl	Whether to open the encryption mode, the type of ssl is
	Boolean.
interval	Send mail interval.
addr1	Recver address1, at most 127 characters.
addr2	Recver address2, at most 127 characters.
addr3	Recver address3, at most 127 characters.
Schedule->enable	Start using schedule
Schedule->table	Table of Alarmtype
nickname	Corresponds to the user name
supportTextType	Support the type of Test

supportVideo	Support the type of video
textType	Text of type

3.3.8 SetEmailV20

Interface Description

It is used to set configuration of Email.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetEmailV20&token=TOKEN

POST Data

```
| Temail | T
```

Field description

Field	Description	M/O
smtpServer	Email server of sender, at most 127 characters.	О
smtpPort	Port of Email server, limit 1~65535.	О

userName	Sender address, at most 127 characters.	О
password	Sender password, at most 31 characters.	О
nickName		О
Ssl	Whether to open the encryption mode, the type of ssl is	О
	Boolean.	
interval	Send mail interval. Range of value is ["30 Seconds",	0
	"1 Minute", "5 Minutes", "10 Minutes"].	
addr1	Recver address1,at most 127 characters.	0
addr2	Recver address2,at most 127 characters.	0
addr3	Recver address3,at most 127 characters.	0
Schedule->en	Start using schedule	О
able		
Schedule->tab	Table of Alarmtype	О
le		

```
Return data correctly

[
{
    "cmd" : "SetEmailV20",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}
]

Field description

Field description
```

rspCode	Response code

3.3.9 TestEmail

• Interface Description

It is used to set configuration of TestEmail.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=TestEmail&token=TOKEN

POST Data

```
Data example
[{
       "cmd": "TestEmail",
       "param": {
             "Email": {
                     "addr1": "****@sz-bcs.com.cn",
                     "addr2": "",
                    "addr3": "",
                    "interval": "5 Minutes",
                    "nickName": "000",
                    "password": "lwmypvelvexadfab",
                    "smtpPort": 465,
                    "smtpServer": "smtp.qq.com",
                    "userName": "*******@qq.com"
             }
      }
```

Field	Description	M/O
smtpServer	Email server of sender, at most 127 characters.	М
smtpPort	Port of Email server, limit 1~65535.	М
userName	Sender address, at most 127 characters.	М

password	Sender password, at most 31 characters.	0
ssl	Whether to open the encryption mode, the type of ssl	М
	is Boolean.	
addr1	Recver address1, at most 127 characters.	0
addr2	Recver address2, at most 127 characters.	0
addr3	Recver address3, at most 127 characters.	0
nickName	Corresponds to the user name	0
Note: At least one of the three addresses (addr1 addr2 addr2) is completed		

Note: At least one of the three addresses (addr1,addr2,addr3) is completed.

• Return data description

```
Return data correctly

[
{
    "cmd" : "TestEmail",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}
]

Field description

Field description

rspCode Response code
```

3.3.10 GetFtp

• Interface Description

It is used to get configuration of Ftp.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetFtp&token=TOKEN

POST Data

```
Return data correctly
[
 "cmd": "GetFtp",
 "code": 0,
 "initial" : {
  "Ftp" : {
   "anonymous": 0,
   "autoDir": 1, //NVR
   "interval": 30,
   "maxSize": 100,
   "mode": 0, //NVR
   "password":"",
   "port": 21,
   "remoteDir" : "",
   "schedule": {
    "enable": 0,
    "table":
},
   "server" : "",
```

```
"streamType": 0,
   "userName" : ""
 }
},
"range" : {
 "Ftp" : {
   "anonymous": "boolean",
   "autoDir": "boolean", //NVR
   "interval" : {
    "max": 3600,
    "min" : 1
   },
   "maxSize" : {
    "max": 1024,
    "min": 10
   "mode":{ //NVR
    "max" : 2,
    "min":0
   "password" : {
    "maxLen": 127
   "port" : {
     "max": 65535,
    "min":1
   "remoteDir" : {
    "maxLen": 255
   "schedule" : {
    "enable" : "boolean",
     "table" : {
      "maxLen": 168,
      "minLen": 168
    }
   },
   "server" : {
    "maxLen": 127
   "streamType": {
    "max" : 2,
     "min" : 0
   "userName" : {
    "maxLen" : 127
   }
```

```
"value" : {
  "Ftp" : {
   "anonymous" : 0,
   "autoDir": 1, //NVR
   "interval" : 30,
   "maxSize" : 100,
   "mode": 0,
   "password": "",
   "port" : 21,
   "remoteDir": "",
   "schedule" : {
    "enable" : 1,
    "table":
},
   "server" : "",
   "streamType": 0,
   "userName" : ""
  }
 }
```

Field	description
initial	The initial value of the Ftp field.
range	The range of the Ftp field.
value	The real value of the Ftp field.
server	FTP server, can fill in the IP address or domain name.
	At most 127 characters.
port	Port of FTP Server, Limit 1~65535.
anonymous	Whether anonymous or not
userName	FTP account name.
password	FTP account password.

remoteDir	FTP root directory.
maxSize	Maximum size of FTP file.
streamType	The types of the uploading files. 0 is for uploading both
	pictures and videos, and 1 is for uploading pictures only.
interval	When streamType=0, interval stands for the time of post
	record, the range is between 30 to 1800 seconds.
	When streamType=1, interval stands for the time interval,
	the range is between 1 to 1800 seconds.
Schedule->enable	Whether ftp receive the alarm information
Schedule->table	The schedule about when ftp receives the alarm information
autoDir	
Niete.	

Note:

When scheduleVersion ver=1 in the capability set, use cmd "GetFtpV20"

3.3.11 SetFtp

Interface Description

It is used to set configuration of Ftp.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetFtp&token=TOKEN

Data example		
[{		
	"cmd": "SetFtp",	
	"param": {	

```
"Ftp": {
             "anonymous": 0,
             "autoDir": 1,
             "bpicSingle": 0,
             "bvideoSingle": 0,
             "interval": 30,
             "maxSize": 100,
             "mode": 0,
             "onlyFtps": 0,
             "password": "",
             "picInterval": 60,
             "picName": "",
             "port": 21,
             "remoteDir": "",
             "schedule": {
                  "enable": 1,
                  "table":
},
             "server": "",
             "size": "",
             "streamType": 0,
             "userName": "",
             "videoName": ""
         }
    }
```

Field	Description	M/O
server	FTP server, can fill in the IP address or domain name.	0
port	Port of FTP Server.	0
aonymous	Whether anonymous or not	0
userName	FTP account name. When the value of anonymous is 0,	0
(Depend on	the user Name field is necessary.	
anonymous)		
Password	FTP account password. FTP account name. When the	0
(Depend on	value of aOnymous is 0, the password field is	

necessary.	
FTP root directory.	0
Maximum size of FTP file.	0
The type of the uploading files. 0 is for uploading both	0
pictures and videos, and 1 is for uploading pictures	
only.	
When streamType=0, interval stands for the time of	0
post record, the range is between 30 to 1800 seconds.	
When streamType=1, interval stands for the time	
interval, the range is between 1 to 1800 seconds.	
Whether ftp receive the alarm information [0, 1]	0
The schedule about when ftp receives the alarm	0
information	
	FTP root directory. Maximum size of FTP file. The type of the uploading files. 0 is for uploading both pictures and videos, and 1 is for uploading pictures only. When streamType=0, interval stands for the time of post record, the range is between 30 to 1800 seconds. When streamType=1, interval stands for the time interval, the range is between 1 to 1800 seconds. Whether ftp receive the alarm information [0, 1] The schedule about when ftp receives the alarm

Note:

When scheduleVersion ver=1 in the capability set, use cmd "SetFtpV20"

Field description	1
Field	description
rspCode	Response code
Note: This command supports model 52X only	

3.3.12 GetFtpV20

Interface Description

It is used to get configuration of Ftp.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetFtpV20&token=TOKEN

POST Data

```
Return data correctly

[
{
    "cmd" : "GetFtpV20",
```

```
"code": 0,
 "initial" : {
 "Ftp" : {
  "anonymous": 0,
  "autoDir": 1,
  "bpicSingle": 0,
  "bvideoSingle": 0,
  "enable": 1,
  "interval": 30,
  "maxSize": 100,
  "mode": 0,
  "onlyFtps": 0,
  "password": "",
  "picCaptureMode": 0,
  "picHeight": 2160,
  "picInterval": 60,
  "picName": "",
  "picWidth": 3840,
  "port": 21,
  "remoteDir": "".
  "schedule" : {
   "channel": 0,
   "table" : {
   "AI DOG CAT":
"AI PEOPLE":
"AI VEHICLE":
"MD":
11111111111111111111111111111111",
   "TIMING":
}
  "server": "",
  "streamType": 0,
  "userName": ""
```

```
"videoName": ""
"range" : {
 "Ftp" : {
   "anonymous": "boolean",
   "autoDir": [0, 1, 2, 3],
   "bpicSingle" : [0, 1, 2],
   "bvideoSingle" : [ 0, 1, 2 ],
   "enable": "boolean",
   "interval" : [5, 10, 15, 30, 60],
   "maxSize" : {
     "max": 1024,
     "min": 10
   },
   "mode" : {
     "max": 2,
     "min": 0
   "password" : {
     "maxLen": 127
   "picCaptureMode" : [ 0, 1, 2, 3 ],
   "picHeight": {
     "max": 2160,
     "min": 360
   "picInterval": [2, 5, 10, 15, 30, 60, 300, 600, 1800],
   "picName" : {
     "maxLen" : 127
   "picWidth": {
     "max": 3840,
     "min": 640
   },
   "port" : {
     "max": 65535,
     "min": 1
   "remoteDir" : {
     "maxLen" : 255
   "schedule" : {
     "channel": 0,
     "table" : {
       "AI DOG CAT": {
         "table" : {
          "maxLen": 168,
```

```
"minLen": 168
      "AI_PEOPLE": {
        "table" : {
          "maxLen": 168,
          "minLen": 168
        }
      },
"AI_VEHICLE": {
        "table" : {
         "maxLen": 168,
          "minLen" : 168
        }
      },
      "MD" : {
        "table" : {
         "maxLen": 168,
          "minLen": 168
      },
      "TIMING": {
        "table" : {
          "maxLen": 168,
          "minLen": 168
   "server" : {
    "maxLen": 127
   "streamType" : {
    "max": 6,
     "min": 0
   "userName" : {
    "maxLen": 127
   "videoName" : {
     "maxLen": 127
"value" : {
 "Ftp" : {
   "anonymous": 0,
   "autoDir": 2,
```

```
"bpicSingle": 0,
  "bvideoSingle": 0,
  "enable": 1,
  "interval": 30,
  "maxSize": 100,
  "mode": 2,
  "onlyFtps": 1,
  "password": "********",
  "picCaptureMode": 3,
  "picHeight": 2160,
  "picInterval": 60,
  "picName": "",
  "picWidth": 3840,
  "port": 21,
  "remoteDir": "*****
  "schedule" : {
  "channel": 0,
  "table" : {
   "AI DOG CAT":
"AI PEOPLE":
"AI VEHICLE":
"MD":
1111111111111111111111111111111111",
   "TIMING":
}
  "server": "192.168.0.132",
  "streamType": 3,
  "userName": "ft***er".
  "videoName": ""
```

Field description	
Field	description
initial	The initial value of the Ftp field.
range	The range of the Ftp field.
value	The real value of the Ftp field.
server	FTP server, can fill in the IP address or domain name.
	At most 127 characters.
port	Port of FTP Server, Limit 1~65535.
Anonymous	Whether to be anonymous
userName	FTP account name.
password	FTP account password.
remoteDir	FTP root directory.
maxSize	Maximum size of FTP file.
streamType	The types of the uploading files. 0 is for uploading both
	pictures and videos, and 1 is for uploading pictures only.
interval	When streamType=0, interval stands for the time of post
	record, the range is between 30 to 1800 seconds.
	When streamType=1, interval stands for the time interval, the
	range is between 1 to 1800 seconds.
Schedule->enable	Whether Start using schedule or not
Schedule->table	Table of Alarm type
autoDir	Whether to create directories automatically
mode	Transport mode
onlyFtps	Ftps switch

picCaptureMode	Image resolution mode
picHeight	Picture height
picWidth	Pitcure width
bpicSingle	Image upload mode
bvideoSingle	Video upload mode
picInterval	Image upload interval

3.3.13 SetFtpV20

Interface Description

It is used to set configuration of Ftp.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetFtpV20&token=TOKEN

```
Data example
[{
      "cmd": "SetFtpV20",
      "anonymous": 0,
                   "autoDir": 1,
                   "bpicSingle": 0,
                   "bvideoSingle": 0,
                   "enable": 1,
                   "interval": 30,
                   "maxSize": 100,
                   "mode": 0,
                   "onlyFtps": 1,
                    "password": "********,
                    "picCaptureMode": 3,
                   "picHeight": 1920,
```

```
"picInterval": 60,
       "picName": "",
       "picWidth": 2304,
       "port": 21,
       "remoteDir": "hello",
       "schedule": {
         "channel": 0,
         "table": {
            "AI DOG CAT":
111111111111111111111111111111",
            "AI PEOPLE":
1111111111111111111111111111111",
            "AI VEHICLE":
1111111111111111111111111111111111",
            "MD":
1111111111111111111111111111111111",
            "TIMING":
"server": "192.168.1.236",
       "streamType": 6,
       "userName": "ft***er",
       "videoName": "sdfs"
    }
```

Field	Description	M/O
server	FTP server, can fill in the IP address or domain name.	О
port	Port of FTP Server.	О
anonymous	Whether to be anoymous or not	О
userName	FTP account name. When the value of anonymous is 0,	О

(Depend on	the user Name field is necessary.	
anonymous)		
Password	FTP account password. FTP account name. When the	0
(Depend on	value of anonymous is 0, the password field is	
anonymous)	necessary.	
remoteDir	FTP root directory.	О
maxSize	Maximum size of FTP file.	О
streamType	The type of the uploading files. 0 is for uploading both	0
	pictures and videos, and 1 is for uploading pictures	
	only.	
interval	When streamType=0, interval stands for the time of	0
	post record, the range is between 30 to 1800 seconds.	
	When streamType=1, interval stands for the time	
	interval, the range is between 1 to 1800 seconds.	
Schedule->en	Whether Start using schedule or not	0
able		
Schedule->tab	Table of Alarm type	О
le		
mode	Transport mode	

```
Return data correctly

[
{
    "cmd" : "SetFtp",
    "code" : 0,
```

```
"value": {
    "rspCode": 200
}

Field description

Field description

rspCode Response code
```

3.3.14 TestFtp

• Interface Description

It is used to set configuration of TestFtp.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=TestFtp&token=TOKEN

```
Data example
[{
       "cmd": "TestFtp",
       "action": 0,
       "param": {
              "Ftp": {
                      "server": "192.168.0.132",
                      "port": 21,
                      "anonymous": 0,
                      "mode": 2,
                      "userName": "ftpuser",
                      "password": "000000",
                      "remoteDir": "fadad",
                      "onlyFtps": 1,
                      "bpicSingle": 2,
                      "bvideoSingle": 2
```

```
}
Field description
                                                                     M/O
Field
               Description
               FTP server, can fill in the IP address or domain name.
server
               At most 127 characters.
               Port of FTP Server ,Limit 1~65535.
                                                                     Μ
port
               Whether anonymous or not
                                                                     Μ
anonymous
userName
               FTP account name. FTP account password. FTP
                                                                     0
               account name. When the value of anonymous is 0, the
(Depend on
anonymous)
               userName field is necessary.
               FTP account password. FTP account password. FTP
Password
                                                                     0
(Depend on
               account name. When the value of anonymous is 0, the
anonymous)
               password field is necessary.
remoteDir
               FTP root directory.
                                                                     Μ
mode
               Transport type
                                                                     Μ
               Ftps switch
onlyFtps
                                                                     Μ
bpicSingle
               Image upload mode
                                                                     Μ
bvideoSingle
               Video upload mode
                                                                     Μ
```

```
"rspCode" : 200
}
Field description

Field description

rspCode Response code

mode Trans port
```

3.3.15 GetNtp

Interface Description

It is used to get configuration of NTP.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetNtp&token=TOKEN

POST Data

• Return data description

Return data correctly

```
"cmd": "GetNtp",
 "code": 0,
 "initial" : {
   "Ntp" : {
     "enable" : 0,
     "interval" : 1440,
     "port": 123,
     "server" : "pool.ntp.org"
   }
 },
 "range" : {
   "Ntp" : {
     "enable": "boolean",
     "interval" : {
      "max": 65535,
      "min": 60
     },
     "port" : {
      "max": 65535,
      "min":1
     },
     "server" : {
      "maxLen": 127
     }
   }
 },
 "value" : {
   "Ntp" : {
     "enable" : 0,
     "interval" : 1440,
     "port": 123,
     "server" : "pool.ntp.org"
   }
 }
}
```

Field	description
enable	NTP switch, The value of 1 represents the open, and the 0 is the opposite.
server	NTP server, can fill in the IP address or domain name.

port	Port of NTP Server.
interval	Time synchronization interval. Limit 10~65535, and 0 on
	behalf of the immediate synchronization.

3.3.16 SetNtp

Interface Description

It is used to set configuration of Set Ntp.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetNtp&token=TOKEN

POST Data

Field	Description	M/O
enable	NTP switch, The value of 1 represents the open, and the 0 is the opposite.	0
server	NTP server, can fill in the IP address or domain name.	0

port	Port of NTP Server .	0
interval	Time synchronization interval. Limit 10~65535,and 0	0
	on behalf of the immediate synchronization.	

```
Return data correctly

[
{
    "cmd" : "SetNtp",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
]

Field description

Field Response code
```

3.3.17 GetNetPort

• Interface Description

It is used to get configuration of NetPort.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetNetPort&token=TOKEN

Data example		

```
[
    "cmd":"GetNetPort",
    "action":1
    }
]
Field description

Field Description M/O
```

```
Return data correctly
[
   "cmd": "GetNetPort",
   "code": 0,
   "value" : {
    "NetPort" : {
      "httpEnable": 0,
      "httpPort": 80,
      "httpsEnable": 1,
      "httpsPort": 443,
      "mediaPort": 9000,
      "onvifEnable": 1,
      "onvifPort": 8000,
      "rtmpEnable": 0,
      "rtmpPort": 1935,
      "rtspEnable": 1,
      "rtspPort": 554
 }
Field description
Field
                     description
httpPort
                     Port of http.
httpsPort
                     Port of https.
```

mediaPort	Port of media.
onvifPort	Port of onvif.
rtspPort	Port of rtsp.
rtmpPort	Port of rtmp.
httpEnable	http switch
httpsEnable	https switch
rtmpEnable	Rtmp switch
rtspEnable	Rtsp switch
onvifEnable	Onvif switch

3.3.18 SetNetPort

• Interface Description

It is used to set configuration of NetPort.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetNetPort&token=TOKEN

```
Temd": "SetNetPort",
    "param": {
        "NetPort": {
            "httpEnable": 0,
            "httpPort": 80,
            "httpsEnable": 1,
            "httpsPort": 443,
            "mediaPort": 9000,
            "onvifEnable": 1,
            "onvifPort": 8000,
```

```
"rtmpEnable": 0,
                      "rtmpPort": 1935,
                      "rtspEnable": 1,
                      "rtspPort": 554
              }
Field description
                                                                         M/O
Field
                Description
httpPort
                Port of http.
                                                                         0
httpsPort
                Port of https.
                                                                         0
                Port of media.
                                                                         0
mediaPort
onvifPort
                Port of onvif.
                                                                         0
rtspPort
                Port of rtsp.
                                                                         0
rtmpPort
                Port of rtmp.
                                                                         0
```

```
Return data correctly

[
{
    "cmd" : "SetNetPort",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
}

Field description

Field description

rspCode Response code
```

3.3.19 GetUpnp

• Interface Description

It is used to get configuration of Upnp.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetUpnp&token=TOKEN

POST Data

```
Return data correctly

[
{
    "cmd": "GetUpnp",
    "code": 0,
    "initial": {
        "Upnp": {
            "enable": 0
        }
    },
    "range": {
        "Upnp": {
            "enable": "boolean"
        }
}
```

```
},
"value":{
"Upnp":{
"enable":0
}
}

Field description

Field description

Upnp switch,The value of 1 represents the open, and the 0 is the opposite.
```

3.3.20 SetUpnp

• Interface Description

It is used to set configuration of Upnp.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetUpnp&token=TOKEN

Field	Description	M/O
enable	Upnp switch, The value of 1 represents the open, and	0
	the 0 is the opposite.	

```
Return data correctly

[
{
    "cmd" : "SetUpnp",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
]

Field description

Field description

rspCode Response code
```

3.3.21 GetWifi

Interface Description

It is used to get configuration of GetWifi.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetWifi&token=TOKEN

Data example	

```
{
    "cmd":"GetWifi",
    "action":1
    }
]
Field description

Field Description M/O
```

```
Return data correctly
[
   "cmd": "GetWifi",
   "code": 0,
   "initial" : {
     "Wifi" : {
      "password" : "",
      "ssid" : ""
    }
   },
   "range" : {
    "Wifi" : {
      "password" : {
        "maxLen" : 127
      },
      "ssid" : {
        "maxLen" : 127
    }
   "value" : {
    "Wifi" : {
      "password":"********,
      "ssid" : "reolink_pyc"
    }
   }
Field description
```

Field	description
ssid	The name of the wireless network
password	The password of the wireless network

3.3.22 SetWifi

• Interface Description

It is used to set configuration of Wifi.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetWifi&token=TOKEN

POST Data

The password of the wireless network

0

• Return data description

password

```
Return data correctly

[
{
    "cmd" : "SetWifi",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
}

Field description

Field description

rspCode Response code
```

3.3.23 TestWifi

• Interface Description

It is used to set configuration of TestWifi.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=TestWifi&token=TOKEN

}] Field description				
Field	Description	M/O		
ssid	The name of the wireless network	M		
password	The password of the wireless network	0		

```
Return data correctly

[
{
    "cmd" : "TestWifi",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
]

Field description

rspCode

Response code
```

3.3.24 ScanWifi

• Interface Description

It is used to get configuration of ScanWifi.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=ScanWifi&token=TOKEN

POST Data

• Return data description

```
Return data correctly
[
   "cmd": "ScanWifi",
   "code": 0,
   "value" : {
     "Wifi" : [
        "bencrypt": 1,
        "signal": 4,
        "ssid": "HUAWEI-D1FC"
      ... // There may be multiple wireless networks.
   }
 }
Field description
                      description
Field
                      Wireless signal strength
signal
                      (1: signal <= -60)
```

(2 : signal <= -50)

	(3 : signal <= -40)
	(4 : signal > -40)
ssid	The name of wireless network
bencrypt	

3.3.25 GetWifiSignal

Interface Description

It is used to get configuration of Get Wifi signal.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetWifiSignal&token=TOKEN

POST Data

3.3.26 GetPush

Interface Description

It is used to get configuration of Push.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetPush&token=TOKEN

]		
Field description		
Field Description M/O		
rieiu	Description	IVI/O

```
Return data correctly
 "cmd": "GetPush",
 "code": 0,
 "initial" : {
  "Push" : {
  "schedule": {
   "enable": 1,
   "table":
}
 }
 },
 "range" : {
  "Push" : {
  "schedule" : {
   "enable": "boolean",
   "table" : {
    "maxLen": 168,
    "minLen": 168
 }
 },
 "value" : {
  "Push" : {
  "schedule": {
   "enable" : 1,
}
```

3.3.27 SetPush

Interface Description

It is used to set configuration of Push.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetPush&token=TOKEN

}] Field description		
Field	Description	M/O
Schedule->enab le	Whether push the alarm information [0, 1]	0
Schedule->table	The schedule about when push the alarm information	0
Note: This command supports model 52X only		

```
Return data correctly

[
{
    "cmd" : " SetPush",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}
]

Field description

Field description

rspCode Response code

Note:

When scheduleVersion ver=1 in the capability set, use cmd "SetPushV20"
```

3.3.28 GetPushV20

Interface Description

It is used to get configuration of Push.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetPush&token=TOKEN

POST Data

```
Return data correctly
 "cmd": "GetPushV20",
 "code": 0,
 "initial" : {
  "Push" : {
   "enable" : 0,
   "schedule" : {
    "channel": 0,
    "table" : {
 //NVR
       "AI PEOPLE":
"AI VEHICLE":
 //NVR
```

```
"MD":
111111111111111111111111111111111
 "range" : {
  "Push" : {
   "enable": "boolean",
   "schedule" : {
   "channel": 0,
   "table" : {
       "AI PEOPLE": {
  //NVR
     "table" : {
      "maxLen": 168,
      "minLen": 168
  //NVR
       "AI VEHICLE": {
     "table" : {
      "maxLen": 168,
      "minLen": 168
    "MD" : {
     "table" : {
      "maxLen": 168,
      "minLen": 168
 value" : {
  "Push" : {
   "enable": 1,
   "schedule" : {
   "channel": 0,
   "table" : \{
       "AI PEOPLE":
 //NVR
```

```
"AI_VEHICLE":
 //NVR
"MD" :
111111111111111111111111100"
Field description
Field
     description
Schedule->enable
     Schedule switch
Schedule->table
     Schdeule table
```

3.3.29 SetPushV20

• Interface Description

It is used to set configuration of Push.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetPush&token=TOKEN

```
"schedule": {
               "channel": 0,
               "table": {
                   "MD":
11111111111111111111111100"
       }
Field description
Field
        Description
                                      M/O
        Schedule switch
Schedule->en
                                     O
able
Schedule->tab
        Schedule table
                                     O
le
```

3.3.30 GetPushCfg

• Interface Description

It is used to get configuration of Push.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetPushCfg&token=TOKEN

POST Data

```
| "value": {
| "PushCfg": {
| "pushInterval": 30
| }
| }
| ]
| Field description

| Field description |
| initial The initial value of the Ftp field.

| range The range of the Ftp field.

| value The real value of the Ftp field.

| pushInterval The interval of push
```

3.3.31 SetPushCfg

Interface Description

It is used to set configuration of Push.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetPushCfg&token=TOKEN

} Field descripti	on	
Field	Description	M/O
pushInterval	Push interval.	0
	•	•

```
Return data correctly

[
{
    "cmd": "SetPushCfg",
    "code": 0,
    "value": {
        "rspCode": 200
    }
    }
]

Field description

Field description

rspCode Response code
```

3.3.32 GetP2p

• Interface Description

Get tP2pinformation

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= GetP2p&token=TOKEN

POST Data

```
"enable": "boolean"
      }
    },
    "value": {
      "P2p": {
        "enable": 1,
        "uid": "95270000SXIPOGIJ"
      }
  }
Field description
                     description
Field
enable
                     Whether enable p2p or not
                     IPC uid
uid
```

3.3.33 SetP2p

• Interface Description

SetP2P

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= SetP2p&token=TOKEN

Field description		
Field	Description	M/O
enable	Whether enable p2p or not	0

```
Return data correctly

[
{
    "cmd" : " SetP2P",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field Response code
```

3.3.34 GetCertificateInfo

• Interface Description

Get CertificateInfo

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= GetCertificateInfo&token=TOKEN	

```
Data example

[{
    "cmd": "GetCertificateInfo",
    "action": 0,
```

"param": {}			
}]			
Field des	Field description		
Field	Description	M/O	
		M	

```
Return data correctly
   "cmd": "GetCertificateInfo",
   "code": 0,
   "value" : {
    "CertificateInfo" : {
      "crtName" : "",
      "enable" : 0,
      "keyName" : ""
   }
 }
Field description
                     description
Field
enable
                     Whether enable p2p or not
                     IPC uid
uid
```

3.3.35 CertificateClear

• Interface Description

Clear Certificate

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= CertificateClear&token=TOKEN

POST Data

• Return data description

```
Return data correctly

[
{
    "cmd" : "CertificateClear",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}
]

Field description

Field description

enable Whether enable p2p or not

uid IPC uid
```

3.3.36 GetRtspUrl

• Interface Description

Get Rtsp Url.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= GetRtspUrl&token=TOKEN	

POST Data

Field description	
Field	description
mainStream	Rtsp url of main stream
subStream	Rtsp url of sub stream

3.4 Video input

3.4.1 GetNorm

• Interface Description

It is used to get configuration of Norm.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetNorm&token=TOKEN

POST Data

• Return data description

Return data correctly

```
"cmd": "GetNorm",
   "code": 0,
   "initial" : {
    "Norm": "NTSC"
   },
   "range" : {
    "Norm" : [ "PAL", "NTSC" ]
   },
   "value" : {
    "Norm": "NTSC"
 }
Field description
                     description
Field
                     Norm of video
Norm
```

3.4.2 SetNorm

Interface Description

It is used to set configuration of Norm.

• Interface call instructions

Request URL http://IPC_IP/api.cgi?cmd=SetNorm&token=TOKEN

Field description		
Field	Description	M/O
Norm		М
Note : After changing the Norm , the system will reboot.		

```
Return data correctly

[
{
    "cmd" : "SetNorm",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field description

Response code
```

3.4.3 GetImage

Interface Description

It is used to get configuration of image.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetImage&token=TOKEN

```
Return data correctly
   "cmd": "GetImage",
   "code": 0,
   "initial" : {
    "Image" : {
      "bright" : 128,
      "channel": 0,
      "contrast" : 128,
      "hue": 128,
      "saturation": 128,
      "sharpen" : 128
    }
   },
   "range" : {
    "Image" : {
      "bright" : {
       "max" : 255,
        "min":0
      },
      "channel": 0,
      "contrast" : {
        "max": 255,
        "min":0
```

```
},
     "hue" : {
      "max" : 255,
      "min" : 0
     },
     "saturation" : {
      "max" : 255,
      "min" : 0
     "sharpen" : {
      "max" : 255,
      "min":0
     }
   }
 },
 "value" : {
   "Image" : {
     "bright" : 128,
     "channel" : 0,
     "contrast" : 128,
     "hue" : 128,
     "saturation": 128,
     "sharpen" : 128
   }
 }
}
```

Field description

Field	description
bright	Bright of video.
contrast	Contrast of video.
saturation	Saturation of video.
hue	Hue of video.
sharpen	Sharpen of video.

3.4.4 SetImage

• Interface Description

It is used to set configuration of image.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetImage&token=TOKEN

POST Data

Field description

Field	Description	M/O
channel	IPC channel number.	M
bright	Bright of video.	M
contrast	Contrast of video.	M
saturation	Saturation of video.	М
hue	Hue of video.	М
sharpen	Sharpen of video.	M

```
Return data correctly

[
{
    "cmd" : "SetImage",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field description

Response code
```

3.4.5 GetOsd

• Interface Description

It is used to get configuration of Osd.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetOsd&token=TOKEN

```
Return data correctly
[
   "cmd": "GetOsd",
   "code": 0,
   "initial" : {
     "Osd" : {
      "bgcolor": 0,
      "channel": 0,
      "osdChannel": {
        "enable": 1,
        "name" : "Camera1",
        "pos": "Lower Right"
      },
      "osdTime" : {
        "enable" : 1,
        "pos": "Top Center"
      },
      "watermark": 1
    }
   },
   "range" : {
     "Osd" : {
      "bgcolor": "boolean",
      "channel": 0,
      "osdChannel" : {
        "enable": "boolean",
        "name" : {
          "maxLen": 31
        },
        "pos" : [
          "Upper Left",
          "Top Center",
```

```
"Upper Right",
      "Lower Left",
      "Bottom Center",
      "Lower Right",
      "Other Configuration"
    ]
   },
   "osdTime" : {
    "enable": "boolean",
     "pos" : [
      "Upper Left",
      "Top Center",
      "Upper Right",
      "Lower Left",
      "Bottom Center",
      "Lower Right",
      "Other Configuration"
   "watermark" : "boolean"
 }
},
"value" : {
 "Osd" : {
   "bgcolor": 0,
   "channel": 0,
   "osdChannel": {
    "enable": 1,
    "name": "Camera1",
    "pos": "Lower Right"
   "osdTime" : {
    "enable": 1,
    "pos": "Top Center"
   },
   "watermark": 1
 }
}
```

Field description

Field	description
osdChannel->enable	Camera name display switch.
osdChannel->name	Camera name

osdChannel->pos	Camera name display position.
osdTime->enable	Camera time display switch.
osdTime->pos	Camera time display position.
bgcolor	Background color
watermark	Watermark

3.4.6 SetOsd

Interface Description

It is used to set configuration of Osd.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetOsd&token=TOKEN

```
Data example
[
    "cmd": "SetOsd",
    "param": {
      "Osd": {
        "channel": 0,
        "osdChannel": {
          "enable": 1,
          "name": "Camera101",
          "pos": "Lower Right"
        },
        "osdTime": {
          "enable": 1,
          "pos": "Upper Right"
      }
   }
```

Field description		
Field	Description	M/O
channel	IPC channel number.	М
osdChannel->enable	Camera name display switch.	М
osdChannel->name	Camera name	М
osdChannel->pos	Camera name display position.	М
osdTime->enable	Camera time display switch.	М
osdTime->pos	Camera time display position.	М

3.4.7 GetIsp

• Interface Description

It is used to get configuration of Isp.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetIsp&token=TOKEN

POST Data

```
Return data correctly
[
   "cmd": "GetIsp",
   "code": 0,
   "initial" : {
    "Isp" : {
      "antiFlicker": "Off",
      "backLight": "Off",
      "blc": 128,
      "blueGain": 128,
      "channel": 0,
      "dayNight": "Auto",
      "drc": 128,
      "exposure": "Auto",
      "gain" : {
        "max" : 62,
        "min":1
      },
      "mirroring" : 0,
```

```
"nr3d": 1,
   "redGain": 128,
   "rotation": 0,
   "shutter" : {
    "max": 125,
     "min":0
   },
   "whiteBalance": "Auto"
 }
},
"range" : {
 "Isp" : {
   "antiFlicker" : [ "Outdoor", "50HZ", "60HZ", "Off" ],
   "backLight" : [ "Off", "BackLightControl", "DynamicRangeControl" ],
   "blc" : {
    "max": 255,
    "min":0
   },
   "blueGain": {
    "max": 255,
     "min": 0
   "channel": 0,
   "dayNight": [ "Auto", "Color", "Black&White"],
   "drc" : {
    "max": 255,
    "min":0
   "exposure": ["Auto", "LowNoise", "Anti-Smearing", "Manual"],
   "gain" : {
    "max": 100,
     "min":1
   "mirroring": "boolean",
   "nr3d": "boolean",
   "redGain": {
    "max": 255,
    "min": 0
   "rotation": "boolean",
   "shutter" : {
    "max": 125,
    "min": 0
   "whiteBalance" : [ "Auto", "Manual" ]
 }
},
"value" : {
```

```
"lsp" : {
     "antiFlicker" : "50HZ",
    "backLight": "BackLightControl",
     "blc": 128,
     "blueGain" : 128,
     "channel" : 0,
     "dayNight": "Black&White",
     "drc": 128,
     "exposure": "Manual",
     "gain" : {
      "max": 62,
      "min":1
    },
     "mirroring": 1,
     "nr3d": 1,
     "redGain": 128,
     "rotation": 1,
     "shutter" : {
      "max" : 125,
      "min" : 0
     },
     "whiteBalance": "Auto"
   }
}
```

Field description

Field	description
antiFlicker	Flicker prevention,["Outdoor", "50HZ", "60HZ", "Off"]
exposure	Exposure mode,
	["Auto", "LowOise", "Anti-Smearing", "Manual"]
gain	When the value of exposure is LowOise or Manual, the
(Depend on	gain field is effective.
exposure)	
shutter	When the value of exposure is Anti-Smearing or Manual,
(Depend on	the shutter field is effective.
exposure)	

whiteBalance	White Balance,["Auto", "Manual"]
blueGain	When the value of whiteBalance is Anti-Smearing or
(Depend on	Manual, the blueGain field is effective.
whiteBalance)	
redGain	When the value of whiteBalance is Anti-Smearing or
(Depend on	Manual, the redGain field is effective.
whiteBalance)	
dayNight	Day&Night,["Auto", "Color", "Black&White"]
backLight	Backlight compensation,
	["Off", "BackLightControl", "DynamicRangeControl"]
Blc	When the value of backLight is BackLightControl, the blc
(Depend on	field is effective.
backLight)	
drc	When the value of backLight is DynamicRangeControl, the
(Depend on	drc field is effective.
backLight)	
nr3d	
mirroring	Video mirroring.
rotation	Video rotation.

3.4.8 SetIsp

Interface Description

It is used to set configuration of Isp.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetIsp&token=TOKEN

```
Data example
[{
       "cmd": "SetIsp",
       "action": 0,
       "param": {
               "lsp": {
                       "antiFlicker": "Off",
                       "backLight": "Off",
                       "blc": 128,
                       "blueGain": 128,
                       "channel": 0,
                       "dayNight": "Auto",
                       "drc": 128,
                       "exposure": "Auto",
                       "gain": {
                               "max": 62,
                              "min": 1
                       "mirroring": 0,
                       "nr3d": 1,
                       "redGain": 128,
                       "rotation": 0,
                       "shutter": {
                              "max": 125,
                              "min": 0
                       "whiteBalance": "Auto",
                       "bd_day": {
                              "iAvailable": 1,
                              "bright": 128,
                              "dark": 128,
                              "mode": "Auto"
                       "bd_led_color": {
                              "iAvailable": 0,
                              "bright": 0,
                              "dark": 0,
                              "mode": "Auto"
                       "bd_night": {
                              "iAvailable": 1,
                              "bright": 128,
```

Field description

Field	Description	M/O
channel	IPC channel number.	М
antiFlicker	Flicker prevention,["Outdoor", "50HZ", "60HZ", "Off"	М
	1	
exposure	Exposure mode,	М
	["Auto", "LowOise", "Anti-Smearing", "Manual"]	
gain	When the value of exposure is LowOise or Manual,	М
(Depend on	the gain field is effective.	
exposure)		
shutter	When the value of exposure is Anti-Smearing or	М
(Depend on	Manual, the shutter field is effective.	
exposure)		
whiteBalance	White Balance,["Auto", "Manual"]	М
blueGain	When the value of whiteBalance is Anti-Smearing or	М
(Depend on	Manual, the blueGain field is effective.	
whiteBalance)		
redGain	When the value of whiteBalance is Anti-Smearing or	М
(Depend on	Manual, the redGain field is effective.	
whiteBalance)		
dayNight	Day&Night,["Auto", "Color", "Black&White"]	М

backLight	Backlight compensation,	М
	["Off", "BackLightControl", "DynamicRangeControl"]	
Blc	When the value of backLight is BackLightControl, the	М
(Depend on	blc field is effective.	
backLight)		
Drc	When the value of backLight is	М
(Depend on	DynamicRangeControl, the drc field is effective.	
backLight)		
nr3d		М
mirroring	Video mirroring.	М
rotation	Video rotation.	М

3.4.9 GetMask

• Interface Description

It is used to get configuration of Mask.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetMask&token=TOKEN

POST Data

```
"block" : {
          "height": 0,
          "width": 0,
          "x":0,
          "v":0
        },
        "screen" : {
          "height": 0,
          "width": 0
        }
      }
     ],
     "channel": 0,
     "enable": 0
   }
 },
 "range" : {
   "Mask" : {
    "channel" : 0,
     "enable": "boolean",
     "maxAreas": 4
   }
 },
 "value" : {
   "Mask" : {
     "area" : [
      {
        "block" : {
          "height": 163,
          "width": 121,
          "x" : 192,
          "y" : 143
        },
        "screen" : {
          "height": 480,
          "width" : 640
        }
      }
     "channel": 0,
     "enable":1
   }
 }
}
```

Field description

Field	description
enable	Video mask switch.
Block->height	Block height.
Block->width	Block width.
Block->x	Left upper X axis coordinates
Block->y	Left upper Y axis coordinates
Screen->height	Screen height.
Screen->width	Screen width.

3.4.10 SetMask

• Interface Description

It is used to set configuration of Mask.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetMask&token=TOKEN

POST Data

```
Data example
[
    "cmd":"SetMask",
    "action":0,
    "param":{
      "Mask":{
        "channel":0,
        "enable":1,
        "area":[
          {
             "screen":{
               "height":720,
               "width":1280
             },
             "block":{
               "x":110,
```

```
"y":95,
               "width":36,
               "height":166
             }
          },
           {
             "screen":{
               "height":720,
               "width":1280
             },
             "block":{
               "x":251,
               "y":100,
               "width":54,
               "height":175
             }
          },
          {
             "screen":{
               "height":720,
               "width":1280
             },
             "block":{
               "x":425,
               "y":102,
               "width":23,
               "height":211
             }
          },
             "screen":{
               "height":720,
               "width":1280
             },
             "block":{
               "x":632,
               "y":88,
               "width":51,
               "height":245
             }
           }
        ]
    }
  }
Field description
```

Field	Description	M/O
channel	IPC channel number.	М
enable	Video mask switch.	М
block->height	Block height.	М
block->width	Block width.	М
block->x	Left upper X axis coordinates	М
block->y	Left upper Y axis coordinates	М
screen->height	Screen height.	М
screen->width	Screen width.	М

```
Return data correctly

[
{
    "cmd" : "SetMask",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field description

rspCode Response code
```

3.4.11 Preview

• Interface Description

preview

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= Preview&token=TOKEN

POST Data

Field	Description	M/O
channel	Index of channel	М
enable	Preview switch	
type	Type of code stream	

]		
Field description		
Field	description	
rspCode	Response code	
·	·	

3.4.12 GetCrop

Interface Description

It is used to get configuration of Crop.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetCrop&token=TOKEN

POST Data

Return data correctly

```
[
   "cmd": "GetCrop",
   "code": 0,
   "initial" : {
    "Crop" : {
      "cropHeight": 480,
      "cropWidth": 640,
      "mainHeight": 1920,
      "mainWidth": 2560,
      "minHeight": 480,
      "minWidth": 640,
      "topLeftX": 960,
      "topLeftY": 720
    }
   },
   "range" : {
    "Crop" : {
      "topLeftX": {
       "max": 1920,
        "min":0
      },
      "topLeftY":{
       "max": 1440,
        "min": 0
      }
    }
   },
   "value" : {
    "Crop" : {
      "channel": 0, //NVR
      "cropHeight": 480,
      "cropWidth": 640,
      "mainHeight": 1920,
      "mainWidth": 2560,
      "minHeight": 480,
      "minWidth": 640,
      "topLeftX": 960,
      "topLeftY": 720
    }
   }
 }
```

Field description

Field	description
rspCode	Response code
minHeight	Minimum height of crop area
minWidth	Minimum width of crop area
mainHeight	height of Main stream
mainWidth	width of Main stream
cropHeight	height of crop area
cropWidth	width of crop area
topLeftY	Distance between the upper left corner of the crop area and
	the upper boundary
topLeftX	Distance between the upper left corner of the crop area and
	the left boundary

3.4.13 SetCrop

Interface Description

It is used to set configuration of Crop.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetCrop&token=TOKEN

POST Data

```
"cropWidth": 640,
"cropHeight": 480,
"topLeftX": 960,
"topLeftY": 720

}

Field description

M/O
```

```
Return data correctly
   "cmd": "SetCrop",
   "code": 0,
   "value" : {
    "rspCode": 200
 }
Field description
Field
                    description
rspCode
                    Response code
minHeight
                    Minimum height of crop area
                    Minimum width of crop area
minWidth
                    height of Main stream
mainHeight
                    width of Main stream
mainWidth
cropHeight
                    height of crop area
```

cropWidth	width of crop area
topLeftY	Distance between the upper left corner of the crop area and the upper boundary
topLeftX	Distance between the upper left corner of the crop area and the left boundary

3.5 Enc

3.5.1 GetEnc

Interface Description

It is used to get configuration of Enc.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetEnc&token=TOKEN

POST Data

channel	IPC channel number	М

"bitRate": 6144,

```
Return data correctly
[
 {
   "cmd": "GetEnc",
   "code": 0,
   "initial" : {
     "Enc": {
      "audio" : 0,
      "channel": 0,
      "mainStream" : {
        "bitRate": 6144,
        "frameRate": 25,
        "gop": 2,
        "height": 2160,
        "profile": "High",
        "size": "3840*2160",
        "vType": "h265",
        "width": 3840
      },
      "subStream" : {
        "bitRate": 256,
        "frameRate": 10,
        "gop": 4,
        "height": 360,
        "profile": "High",
        "size": "640*360",
        "vType": "h264",
        "width" : 640
      }
    }
   "range" : {
     "Enc" : [
        "audio": "boolean",
        "chnBit": 1,
        "mainStream" : {
          "bitRate": [4096, 5120, 6144, 7168, 8192],
          "default" : {
```

```
"frameRate": 25,
     "gop" : 2
   },
   "frameRate": [25, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2],
   "gop":{
     "max": 4,
     "min": 1
   },
   "height": 2160,
   "profile": ["Base", "Main", "High"],
   "size": "3840*2160",
   "vType": "h265",
   "width": 3840
 },
  "subStream" : {
   "bitRate": [64, 128, 160, 192, 256, 384, 512],
   "default" : {
     "bitRate": 256,
     "frameRate": 10,
     "gop": 4
   },
   "frameRate": [15, 10, 7, 4],
   "gop": {
     "max": 4,
     "min": 1
   },
   "height": 360,
   "profile": ["Base", "Main", "High"],
   "size": "640*360",
   "vType": "h264",
   "width": 640
 }
},
 "audio": "boolean",
 "chnBit": 1,
  "mainStream": {
   "bitRate": [ 1024, 1536, 2048, 3072, 4096, 5120, 6144, 7168, 8192 ],
   "default" : {
     "bitRate": 6144,
     "frameRate": 25,
     "gop": 2
   },
   "frameRate": [25, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2],
   "gop": {
     "max": 4,
     "min":1
```

```
"height": 1440,
   "profile": ["Base", "Main", "High"],
   "size": "2560*1440",
   "vType": "h264",
   "width": 2560
 },
 "subStream" : {
   "bitRate": [64, 128, 160, 192, 256, 384, 512],
   "default": {
     "bitRate": 256,
     "frameRate": 10,
     "gop": 4
   },
   "frameRate" : [ 15, 10, 7, 4 ],
   "gop":{
     "max": 4,
     "min": 1
   },
   "height": 360,
   "profile": ["Base", "Main", "High"],
   "size": "640*360",
   "vType": "h264",
   "width": 640
 }
},
 "audio": "boolean",
 "chnBit": 1,
 "mainStream": {
   "bitRate": [ 1024, 1536, 2048, 3072, 4096, 5120, 6144, 7168, 8192 ],
   "default": {
     "bitRate": 6144,
     "frameRate": 25,
     "gop" : 2
   },
   "frameRate": [25, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2],
   "gop": {
     "max": 4,
     "min": 1
   },
   "height": 1296,
   "profile": ["Base", "Main", "High"],
   "size": "2304*1296",
   "vType" : "h264",
   "width": 2304
 },
 "subStream" : {
   "bitRate": [64, 128, 160, 192, 256, 384, 512],
```

```
"default" : {
          "bitRate" : 256,
          "frameRate": 10,
          "gop": 4
        },
        "frameRate" : [ 15, 10, 7, 4 ],
         "gop" : {
          "max" : 4,
          "min": 1
        },
        "height": 360,
        "profile": ["Base", "Main", "High"],
        "size": "640*360",
        "vType": "h264",
         "width": 640
       }
     }
   ]
 },
  "value" : {
   "Enc": {
     "audio" : 1,
     "channel": 0,
     "mainStream" : {
       "bitRate": 6144,
      "frameRate": 25,
      "gop": 2,
       "height": 2160,
      "profile": "High",
      "size": "3840*2160",
      "vType": "h265",
      "width": 3840
     },
     "subStream" : {
      "bitRate": 256,
       "frameRate": 10,
       "gop": 4,
       "height": 360,
       "profile": "High",
       "size": "640*360",
      "vType" : "h264",
       "width": 640
     }
   }
 }
}
```

Field description	
Field	description
audio	Audio switch.
mainStream->bitRate	Bit rate of main stream.
mainStream->frameRate	FrameRate of main stream.
mainStream->profile	H.264 Profile.
mainStream->size	Resolution.
subStream->bitRate	Bit rate of sub stream.
subStream->frameRate	FrameRate of sub stream.
subStream->profile	H.264 Profile.
subStream->size	Resolution.
mainstream->height	Height of mainstream
	(This item is internal use only, and no needed for cmd
	"SetEnc")
mainstream->resolution	Resolution enumerate of mainstream
	(This item is internal use only, and no needed for cmd
	"SetEnc")
mainstream->width	Width of mainstream
	(This item is internal use only, and no needed for cmd
	"SetEnc")
substeram->height	Height of substream
	(This item is internal use only, and no needed for cmd
	"SetEnc")
substeram->resolution	Resolution enumerate of substream
	(This item is internal use only, and no needed for cmd

	"SetEnc")
substeram->width	Width of substream
	(This item is internal use only, and no needed for cmd
	"SetEnc")

3.5.2 SetEnc

Interface Description

It is used to set configuration of Enc.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetEnc&token=TOKEN

POST Data

```
Data example
[{
       "cmd": "SetEnc",
       "action": 0,
       "param": {
              "Enc": {
                      "channel": 0,
                      "audio": 1,
                      "mainStream": {
                             "size": "2560*1920",
                             "frameRate": 20,
                             "bitRate": 4096,
                             "profile": "High"
                      "subStream": {
                             "size": "640*480",
                             "frameRate": 10,
                             "bitRate": 256,
                             "profile": "High"
                      }
```

}		
Field description		
Field	Description	M/O
channel	IPC channel number.	M
audio	Audio switch.	М
mainStream->bitRate	Bit rate of main stream.	M
mainStream->frameRate	FrameRate of main stream.	М
mainStream->profile	H.264 Profile.	М
mainStream->size	Resolution.	М
subStream->bitRate	Bit rate of sub stream.	М
subStream->frameRate	FrameRate of sub stream.	M
subStream->profile	H.264 Profile.	M
subStream->size	Resolution.	M

```
Return data correctly

[
{
    "cmd" : "SetEnc",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
]

Field description

Field description

rspCode Response code
```

3.6 Record

3.6.1 GetRec

Interface Description

It is used to get configuration of record.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetRec&token=TOKEN

Post Data

```
Return data correctly

[
{
    "cmd" : "GetRec",
```

```
"code": 0,
 "initial" : {
  "Rec" : {
   "channel": 0,
   "overwrite": 1,
   "packTime": "30 Minutes", //NVR
   "postRec": "1 Minute",
   "preRec": 1,
   "schedule": {
    "enable": 1,
    "table":
}
 },
 "range" : {
  "Rec" : {
   "channel": 0,
   "overwrite": "boolean",
   "packTime": [ "30 Minutes", "45 Minutes", "60 Minutes"],
   "postRec": [ "15 Seconds", "30 Seconds", "1 Minute", "10 Minutes"],
   "preRec": "boolean",
   "schedule" : {
    "enable": "boolean"
  }
 },
 "value" : {
  "Rec": {
   "channel": 0,
   "overwrite": 1,
   "packTime": "60 Minutes", //NVR
   "postRec": "1 Minute",
   "preRec": 1,
   "schedule": {
    "enable": 1,
    "table":
}
  }
```

Field description		
Field description		
Field	description	
channel	Channel number	
overwrite	Whether the video files can be overwritten	
postRec	Post record time	
preRec	Enable pre record	
enable	Enable scheduled recording	
table	A string with the length of 7 days*24 hours. Each byte in this	
	hour indicates whether it's recording. With the value of 0,	
	the recording is off, otherwise the recording is on.	
Note: This comman	d supports model 52X only	
Note:		
When scheduleVersion ver=1 in the capability set, use cmd "GetRecV20"		

3.6.2 SetRec

• Interface Description

It is used to set configuration of record.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetRec&token=TOKEN

Post Data

Data example	
{	

```
"cmd":"SetRec",
"param":
 "Rec":
  "channel" : 0,
  "overwrite": 1,
  "postRec": "30 Seconds",
  "preRec": 1,
  "schedule":
   "enable" : 1,
   "table":
}
}
}
```

Field	Description	M/O
channel	See also GetRec	М
overwrite	See also GetRec	0
postRec	See also GetRec	0
preRec	See also GetRec	0
enable	See also GetRec	0
table	See also GetRec	0

Note:

When scheduleVersion ver=1 in the capability set, use cmd "SetRecV20"

• Return data description

Return data correctly

```
[
    "cmd" : "SetRec",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
}

Field description

Field description
```

3.6.3 GetRecV20

Interface Description

It is used to get configuration of record.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetRecV20&token=TOKEN

Post Data

```
| Cand | Canonic | Canonic
```

```
Return data correctly
[
 "cmd": "GetRecV20",
 "code": 0,
 "initial": {
 "Rec" : {
  "enable": 1,
  "overwrite": 1,
  "packTime": "60 Minutes",
  "postRec": "2 Minutes",
  "preRec": 1,
  "schedule": {
   "channel": 0,
   "table" : {
     "AI PEOPLE":
//NVR
//NVR
     "AI VEHICLE":
"MD":
"TIMING":
}
 }
 "range" : {
 "Rec" : {
  "enable": "boolean",
  "overwrite": "boolean",
  "packTime": [ "30 Minutes", "45 Minutes", "60 Minutes"],
  "postRec": ["1 Minute", "2 Minutes", "5 Minutes", "10 Minutes"],
  "preRec": "boolean",
```

```
"schedule" : {
  "channel": 0,
  "table" : {
   "AI_PEOPLE": "boolean", //NVR
   "AI VEHICLE": "boolean", //NVR
   "MD": "boolean",
   "TIMING": "boolean"
 }
 }
 "value" : {
 "Rec" : {
 "enable": 1,
 "overwrite": 1,
 "packTime": "60 Minutes",
  "postRec": "1 Minute",
 "preRec": 1,
  "schedule": {
  "channel": 0,
  "table" : {
    "AI PEOPLE":
 //NVR
//NVR
    "AI VEHICLE":
"MD":
"TIMING":
}
Field description
```

Field

description

channel	Channel number
overwrite	Whether the video files can be overwritten
postRec	Post record time
preRec	Enable pre record
enable	Enable scheduled recording
table	A string with the length of 7 days*24 hours. Each byte in this hour indicates whether it's recording. With the value of 0, the recording is off, otherwise the recording is on.
PackTime	Packaging cycle

3.6.4 SetRecv20

Interface Description

It is used to set configuration of record.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetRecV20&token=TOKEN

Post Data

```
"schedule": {
         "enable": 1,
"channel": 0,
         "table": {
           "MD":
}
  }
Field description
     Description
Field
                       M/O
channel
     See also GetRec
                         Μ
     See also GetRec
overwrite
                         0
     See also GetRec
postRec
                         0
     See also GetRec
                         0
preRec
```

See also GetRec

See also GetRec

enable

table

0

0

]	
Field description	
Field	description

3.6.5 Search

• Interface Description

It is used to search video files.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=Search&token=TOKEN

Post Data

```
Data example
[{
       "cmd": "Search",
    "action":0,
       "param": {
              "Search": {
                      "channel": 0,
                      "onlyStatus": 1,
                      "streamType": "main",
                      "StartTime": {
                             "year": 2020,
                             "mon": 12,
                             "day": 21,
                             "hour": 12,
                             "min": 26,
                             "sec": 1
                      },
"EndTime": {
                             "year": 2020,
                             "mon": 12,
```

Field	Description	M/O
channel	Channel number	M
onlyStatus	The value 1 means it will only get the data of dates instead of requiring the details of the files. The value 0 means it will get the details information of a certain day.	M
streamType	The stream type of the recordings, "main" is for searching main stream, otherwise is for searching sub stream.	M
startTime	The start time of the recordings	M
endTime	The end time of the recordings	M

Noted: Searching a big amount of files might lead to searching time out

Field	description
mon	Record date(month)
year	Record date(year)
channel	channel number
table	Each byte in the string represent the days of the month,
	indicating whether it's recording. With the value of 0, the recording is off, with the value of 1, the recording is on.
	recording is on, with the value of 1, the recording is on.

```
Return data correctly (onlyStatus 为0)
[
   "cmd": "Search",
   "code": 0,
   "value" : {
    "SearchResult": \{
      "File" : [
        {
         "EndTime" : {
           "day" : 21,
           "hour": 20,
           "min" : 21,
           "mon": 12,
           "sec": 23,
           "year" : 2020
         },
         "StartTime": {
```

```
"day" : 21,
           "hour": 12,
           "min": 20,
           "mon": 12,
           "sec": 57,
           "year" : 2020
         },
         "frameRate": 0,
         "height": 0,
         "name":
"Mp4Record/2020-12-21/RecM01_20201221_122057_202123_6D28C08_E4B0AE.
mp4",
         "size": 14987438,
         "type": "main",
         "width" : 0
       },
       {
         "EndTime" : {
           "day": 21,
           "hour": 12,
           "min": 33,
           "mon": 12,
           "sec": 42,
           "year" : 2020
         },
         "StartTime" : {
           "day": 21,
           "hour": 12,
           "min": 33,
           "mon": 12,
           "sec": 39,
           "year" : 2020
         },
         "frameRate": 0,
         "height": 0,
         "name":
"Mp4Record/2020-12-21/RecM01_20201221_123339_123342_6D28808_2D9AF5.
mp4",
         "size": 2988789,
         "type": "main",
         "width": 0
       },
         "EndTime" : {
           "day": 21,
           "hour": 12,
           "min": 38,
           "mon": 12,
```

```
"sec": 49,
           "year" : 2020
         },
         "StartTime" : {
          "day": 21,
           "hour": 12,
           "min": 33,
           "mon": 12,
          "sec": 49,
           "year" : 2020
         "frameRate": 0,
         "height": 0,
         "name":
"Mp4Record/2020-12-21/RecM01_20201221_123349_123849_6D28C18_98ADFF
F.mp4",
         "size": 160096255,
         "type": "main",
         "width": 0
       }
      ],
      "Status" : [
         "mon": 12,
         "table": "00000000000000011111000000000",
         "year" : 2020
       }
      "channel": 0
```

Field	description
frameRate	Frame rate
height	The height of the image
width	The width of the image
name	File name
size	File size

type	Stream type
StartTime	The start time of the recordings
EndTime	The end time of the recordings
mon	Month
year	Year
channel	Channel number
table	Each byte in the string represent the days of the month,
	indicating whether it's recording. With the value of 0, the
	recording is off, with the value of 1, the recording is on.

3.6.6 Download

Interface Description

It is used to download video files.

• Interface call instructions

Request URL	http://192.168.1.238/cgi-bin/api.cgi?cmd=Download&source
	=Mp4Record/2020-12-21/RecM01_20201221_121551_12155
	3_6D28808_2240A8.mp4&output=Mp4Record_2020-12-21_
	RecM01_20201221_121551_121553_6D28808_2240A8.mp4
	&token=TOKEN

• Request parameter description

Parameter	M/O	Description
source	M	The name of the source file
output	М	Video files storage name

Return data correctly

Content-Type: apolication/octet-stream

Content-Length: 2244776

Last-Modified: Mon, 21 Dec 2020 03:15:56 GMT

Connection: keep-alive

Content-Disposition: attachment;filename=Mp4Record_2020-12-21_RecM01_202

01221_121551_121553_6D28808_2240A8.mp4

ETag: "5fe0136c-2240a8"

X-Frame-Options: SAMEORIGIN

X-XSS-Protection: 1; mode=block

X-Content-Type-Options: nosniff

Accept-Ranges: bytes

.....(file content)

Field description

Field	description
filename	The name of the video file

3.6.7 Snap

• Interface Description

It is used to capture an image.

• Interface call instructions

Request URL	http://192.168.1.238/cgi-bin/api.cgi?cmd=Snap&channel=0&
	rs=flsYJfZgM6RTB_os&token=TOKEN

• Request parameter description

Parameter	M/O	Description
channel	М	Channel number
rs	М	Random character with fixed length. It's used to
		prevent browser caching.

Return data correctly	/
-----------------------	---

Content-Type: image/jpeg Content-Length: 171648 Connection: keep-alive

X-Frame-Options: SAMEORIGIN X-XSS-Protection: 1; mode=block X-Content-Type-Options: nosniff

.....(File content)

Field description

Field	description
name	Picture name

3.6.8 Playback

• Interface Description

It is used to get configuration of Playback.

• Interface call instructions

http://192.168.1.238/cgi-bin/api.cgi?cmd=Playback&sourc	
Mp4Record/2020-12-22/RecM01_20201222_075939_080140	
_6D28808_1A468F9.mp4&output=Mp4Record/2020-12-22/R	
ecM01_20201222_075939_080140_6D28808_1A468F9.mp4	
&token=TOKEN	

• Request parameter description

Parameter	M/O	Description
source	М	The name of the source file
output	М	Video files storage name

Return data correctly

Content-Type: apolication/octet-stream

Content-Length: 2244776

Last-Modified: Mon, 21 Dec 2020 03:15:56 GMT

Connection: keep-alive

Content-Disposition: attachment; filename=Mp4Record/2020-12-22/RecM01_2020

1222_075939_080140_6D28808_1A468F9.mp4

ETag: "5fe0136c-2240a8"

X-Frame-Options: SAMEORIGIN X-XSS-Protection: 1; mode=block X-Content-Type-Options: nosniff

Accept-Ranges: bytes

.....(file content)

3.6.9 NvrDownload

• Interface Description

It is used to Nvr Download.

• Interface call instructions

Request URL	http://NVR_IP/api.cgi?cmd= NvrDownload&token=TOKEN

Post Data

```
"day": 24,
                              "hour": 10,
                              "min": 13,
                              "sec": 0
                      "StartTime": {
                              "year": 2020,
                              "mon": 12,
                              "day": 24,
                              "hour": 10,
                              "min": 8,
                              "sec": 0
                       "channel": 0
               }
       }
Field description
```

Field	Description	M/O
StartTime	Start time	0
EndTime	End time	0

```
Return data correctly
   "cmd": "NvrDownload",
   "code": 0,
   "value" : {
    "fileCount": 10,
    "fileList" : [
       "fileName": "fragment_01_20201224101100.mp4",
       "fileSize": "2122011"
       "fileName": "fragment_01_20201224100925.mp4",
       "fileSize" : "39858411"
      },
```

```
"fileName": "fragment_01_20201224101151.mp4",
 "fileSize": "2728197"
 "fileName": "fragment_01_20201224100848.mp4",
 "fileSize": "14158847"
 "fileName": "fragment_01_20201224100800.mp4",
 "fileSize": "11221990"
 "fileName": "fragment_01_20201224100834.mp4",
 "fileSize": "2303298"
 "fileName": "fragment_01_20201224101201.mp4",
 "fileSize": "7295191"
},
 "fileName": "fragment_01_20201224101135.mp4",
 "fileSize": "2182079"
 "fileName": "fragment 01 20201224101125.mp4",
 "fileSize": "2222880"
},
 "fileName": "fragment_01_20201224101222.mp4",
 "fileSize": "18956748"
```

Field	description
Filename	name of file
File size	Szie of file

3.7 PTZ

• Note :Only for devices with PTZ capabilities

3.7.1 GetPtzPreset

• Interface Description

It is used to get configuration of Ptz Preset.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetPtzPreset&token=TOKEN

POST Data

```
Return data correctly

[
{
    "cmd": "GetPtzPreset",
```

```
"code": 0,
"initial" : {
 "PtzPreset" : [
    "channel": 0,
     "enable": 1,
     "id": 1,
    "name" : "pos1"
   },
     "channel": 0,
     "enable": 1,
     "id": 2,
    "name" : "pos1"
   },
    "channel": 0,
     "enable": 0,
     "id":3,
    "name" : ""
   },
     "channel" : 0,
     "enable": 0,
     "id" : 4,
     "name" : ""
   },
    "channel": 0,
    "enable": 0,
     "id":5,
     "name" : ""
   },
    "channel": 0,
     "enable": 0,
     "id" : 6,
    "name" : ""
   },
    "channel": 0,
     "enable": 0,
     "id" : 7,
    "name" : ""
   },
    "channel" : 0,
     "enable": 0,
```

```
"id" : 8,
  "name" : ""
},
 "channel": 0,
  "enable": 0,
 "id" : 9,
 "name<sup>"</sup> : ""
},
 "channel": 0,
 "enable": 0,
 "id": 10,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 11,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id" : 12,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
 "id": 13,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
  "id": 14,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 15,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
```

```
"id" : 16,
 "name" : ""
},
 "channel": 0,
 "enable" : 0,
  "id" : 17,
 "name" : ""
},
  "channel": 0,
 "enable": 0,
 "id": 18,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 19,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id" : 20,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
 "id": 21,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
  "id": 22,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 23,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
```

```
"id" : 24,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
  "id" : 25,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 26,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 27,
"name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id" : 28,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 29,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
  "id": 30,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 31,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
```

```
"id" : 32,
"name" : ""
},
 "channel": 0,
 "enable" : 0,
  "id": 33,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 34,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 35,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id": 36,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 37,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
  "id": 38,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 39,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
```

```
"id" : 40,
 "name" : ""
},
 "channel": 0,
 "enable" : 0,
  "id" : 41,
 "name" : ""
},
  "channel": 0,
 "enable": 0,
 "id": 42,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 43,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id": 44,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
 "id": 45,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
  "id": 46,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 47,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
```

```
"id" : 48,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
 "id": 49,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 50,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 51,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id" : 52,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
 "id":53,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
  "id": 54,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 55,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
```

```
"id" : 56,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
  "id": 57,
 "name" : ""
},
  "channel": 0,
 "enable": 0,
 "id": 58,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 59,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id": 60,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
 "id" : 61,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
  "id": 62,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 63,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
```

```
"id" : 64,
     "name" : ""
   }
 ]
},
"range" : {
 "PtzPreset" : {
   "channel": 0,
   "enable": "boolean",
   "id" : {
    "max": 64,
    "min":1
   },
   "name" : {
     "maxLen" : 31
   }
 }
},
"value" : {
 "PtzPreset":[
   {
     "channel" : 0,
     "enable": 1,
     "id": 1,
    "name" : "pos1"
   },
    "channel": 0,
     "enable": 1,
    "id" : 2,
    "name" : "pos1"
   },
     "channel" : 0,
     "enable": 0,
    "id":3,
    "name" : ""
   },
     "channel": 0,
     "enable": 0,
     "id" : 4,
     "name" : ""
   },
     "channel" : 0,
    "enable": 0,
     "id":5,
```

```
"name" : ""
},
  "channel": 0,
  "enable" : 0,
  "id" : 6,
 "name" : ""
},
{
 "channel" : 0,
  "enable": 0,
  "id" : 7,
  "name<sup>"</sup> : ""
},
 "channel": 0,
  "enable": 0,
  "id" : 8,
 "name" : ""
},
  "channel": 0,
  "enable": 0,
  "id":9,
 "name<sup>"</sup> : ""
},
 "channel": 0,
  "enable": 0,
 "id" : 10,
 "name" : ""
},
  "channel" : 0,
  "enable": 0,
 "id" : 11,
 "name" : ""
},
  "channel": 0,
  "enable" : 0,
 "id" : 12,
  "name" : ""
},
  "channel" : 0,
 "enable": 0,
  "id": 13,
```

```
"name" : ""
},
  "channel": 0,
 "enable" : 0,
 "id" : 14,
 "name" : ""
},
{
 "channel": 0,
  "enable": 0,
 "id" : 15,
"name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 16,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 17,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 18,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id" : 19,
 "name" : ""
},
  "channel": 0,
 "enable" : 0,
 "id": 20,
  "name" : ""
},
 "channel" : 0,
 "enable": 0,
 "id": 21,
```

```
"name" : ""
},
  "channel": 0,
 "enable": 0,
 "id" : 22,
 "name" : ""
},
{
 "channel": 0,
  "enable": 0,
 "id": 23,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 24,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 25,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 26,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id" : 27,
 "name" : ""
},
  "channel": 0,
 "enable" : 0,
 "id" : 28,
  "name" : ""
},
 "channel" : 0,
 "enable": 0,
 "id": 29,
```

```
"name" : ""
},
  "channel": 0,
 "enable" : 0,
 "id" : 30,
 "name" : ""
},
{
 "channel": 0,
  "enable": 0,
 "id" : 31,
"name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 32,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 33,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 34,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id" : 35,
 "name" : ""
},
  "channel": 0,
  "enable": 0,
 "id" : 36,
  "name" : ""
},
 "channel" : 0,
 "enable": 0,
 "id" : 37,
```

```
"name" : ""
},
  "channel" : 0,
 "enable" : 0,
 "id" : 38,
 "name" : ""
},
{
 "channel": 0,
  "enable": 0,
 "id": 39,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 40,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 41,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 42,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id": 43,
 "name" : ""
},
  "channel": 0,
 "enable" : 0,
 "id" : 44,
  "name" : ""
},
 "channel" : 0,
 "enable": 0,
  "id": 45,
```

```
"name" : ""
},
  "channel": 0,
 "enable" : 0,
 "id" : 46,
 "name" : ""
},
{
 "channel": 0,
  "enable": 0,
 "id" : 47,
"name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 48,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 49,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 50,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id" : 51,
 "name" : ""
},
  "channel": 0,
 "enable" : 0,
 "id" : 52,
 "name" : ""
},
 "channel" : 0,
 "enable": 0,
  "id": 53,
```

```
"name" : ""
},
  "channel": 0,
 "enable": 0,
 "id" : 54,
 "name" : ""
},
{
 "channel": 0,
  "enable": 0,
 "id":55,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 56,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 57,
 "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id" : 58,
 "name" : ""
},
 "channel" : 0,
  "enable": 0,
 "id" : 59,
 "name" : ""
},
  "channel": 0,
 "enable" : 0,
 "id": 60,
  "name" : ""
},
 "channel": 0,
 "enable": 0,
 "id": 61,
```

```
"name" : ""
   },
     "channel" : 0,
    "enable": 0,
    "id": 62,
    "name" : ""
   },
    "channel": 0,
     "enable": 0,
     "id": 63,
    "name" : ""
   },
    "channel" : 0,
    "enable" : 0,
    "id" : 64,
    "name" : ""
}
```

Field	description
enable	Preset switch, The value of 1 represents the open, and the 0 is the opposite.
	is the opposite.
id	ID number of the Preset.
name	Name of the Preset.

3.7.2 SetPtzPreset

Interface Description

It is used to set configuration of PtzPreset.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetPtzPreset&token=TOKEN

POST Data

```
Data example
[
    "cmd":"SetPtzPreset",
    "action":0,
    "param":{
      "PtzPreset":{
        "channel":0,
        "enable":1,
        "id":1,
        "name":"pos1"
  }
Field description
Field
                Description
                                                                        M/O
                IPC channel number.
                                                                        Μ
channel
                1 means that is on, and 0 means it's off. If that field
enable
                                                                        0
                doesn't exist it means only the name of the preset can
                be revised.
                ID number of preset. Range [1~64].
id
                                                                        Μ
                Name of preset, limit 1~31 characters.
                                                                        Μ
name
```

```
Return data correctly

[
{
    "cmd": "SetPtzPreset",
```

```
"code": 0,
   "value": {
        "rspCode": 200
      }
    }
}

Field description

Field description

rspCode Response code
```

3.7.3 GetPtzPatrol

Interface Description

It is used to get configuration of PtzPatrol.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetPtzPatrol&token=TOKEN

POST Data

Field	Description	M/O
channel	The channel number.	М

"speed": 10

```
Return data correctly
[
   "cmd": "GetPtzPatrol",
   "code": 0,
   "range" : {
    "PtzPatrol" : {
      "enable": "boolean",
      "id" : {
       "max" : 1,
        "min":1
      },
      "name" : {
        "maxLen": 31
      },
      "preset" : {
        "dwellTime" : {
         "max": 30,
         "min":1
        },
        "id" : {
         "max" : 64,
         "min":1
        },
        "speed" : {
         "max": 64,
         "min":1
        }
      "running": "boolean"
    }
   },
   "value" : {
     "PtzPatrol" : [
        "channel": 0,
        "enable" : 1,
        "id": 1,
        "name": "cruise1",
        "preset" : [
         {
           "dwellTime": 3,
           "id":1,
```

```
},
     "dwellTime": 4,
     "id" : 2,
     "speed": 20
   }
 ],
 "running": 0
 "channel": 0,
 "enable": 0,
 "id" : 2,
 "name<sup>"</sup> : "",
 "preset" : [
     "dwellTime" : 3,
     "id":1,
     "speed" : 10
   },
     "dwellTime": 4,
     "id": 2,
     "speed" : 20
   }
 ],
 "running": 0
},
 "channel": 0,
 "enable": 0,
 "id" : 3,
 "name": "",
 "preset" : [
     "dwellTime": 3,
     "id": 1,
     "speed": 10
   },
     "dwellTime": 4,
     "id" : 2,
     "speed" : 20
   }
 ],
 "running": 0
},
```

```
"channel": 0,
 "enable" : 0,
 "id" : 4,
 "name" : "",
 "preset" : [
     "dwellTime": 3,
     "id": 1,
     "speed" : 10
   },
     "dwellTime": 4,
     "id": 2,
     "speed": 20
   }
 ],
 "running": 0
},
 "channel": 0,
 "enable": 0,
 "id" : 5,
 "name" : "",
 "preset" : [
   {
     "dwellTime": 3,
     "id": 1,
     "speed": 10
   },
     "dwellTime": 4,
     "id": 2,
     "speed" : 20
   }
 ],
 "running" : 0
 "channel": 0,
 "enable": 0,
 "id": 6,
 "name" : "",
 "preset" : [
   {
     "dwellTime" : 3,
     "id": 1,
     "speed" : 10
```

Field	description
enable	Patrol switch, The value 1 means that's enabled, and 0
	means the opposite.
id	ID number of the Patrol.
running	Whether running or not
preset->dwellTime	Patrol time
Preset->id	ID number of the preset
preset->speed	Patrol speed
name	Name of the patrol

3.7.4 SetPtzPatrol

Interface Description

It is used to set configuration of PtzPatrol.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetPtzPatrol&token=TOKEN

Data example "cmd":"SetPtzPatrol", "action":0, "param":{ "PtzPatrol":{ "channel":0, "enable":1, "id":1, "running":0, "name":"hello" "preset":["dwellTime":3, "id":1, "speed":10 "dwellTime":4, "id":2, "speed":20] }

IPC channel number. Whether enable the preset or not ID number of Patrol.	M M M
·	
ID number of Patrol.	М
	1
Patrol time	М
ID number of preset. Range [1~64].	М
Patrol speed	М
	ID number of preset. Range [1~64].

```
Return data correctly

[
{
    "cmd" : "SetPtzPatrol",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field Response code
```

3.7.5 PtzCtrl

Interface Description

It is used to control the operation of PTZ.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=PtzCtrl&token=TOKEN

```
"speed":32
},
  "cmd":"PtzCtrl",
  "param":{
    "channel":0,
    "op":"Stop"
},
  "cmd":"PtzCtrl",
  "param":{
    "channel":0,
    "op":"ToPos",
    "id":1,
    "speed":32
Field description
                Description
                                                                       M/O
Field
                IPC channel number.
channel
                                                                       Μ
                Operation to control the PTZ.
                                                                       Μ
op
id
                Preset id number or Patrol id number.
                                                                       0
                                                                       0
speed
                PTZ running speed.
```

```
{
  "cmd":"PtzCtrl",
  "code":0,
  "value":{
      "rspCode":200
  }
},
{
  "cmd":"PtzCtrl",
  "code":0,
  "value":{
      "rspCode":200
  }
}
}
```

Field	description
rspCode	Response code

Notes:

connect to the ptz command, some parameters are unneeded. you just set it "0".

the value of op is:

"Stop": PTZ stop turning.

"Left": PTZ turn left in the specified speed.

"Right": PTZ turn right in the specified speed.

"Up": PTZ turn up in the specified speed.

"Down": PTZ turn down in the specified speed.

"LeftUp": PTZ turn left-up in the specified speed.

"LeftDown": PTZ turn left-down in the specified speed.

"RightUp": PTZ turn right-up in the specified speed.

"RightDown": PTZ turn right-down in the specified speed.

"IrisDec": Iris shrink in the specified speed.

```
"IrisInc":Iris enlarge in the specified speed.

"ZoomDec":Zoom in in the specified speed.

"ZoomInc":Zoom out in the specified speed.

"FocusDec":Focus backwards in the specified speed.

"FocusInc":Focus forwards in the specified speed.

"Auto": PTZ turn auto in the specified speed.

"StartPatrol": PTZ patrol in the specified speed.

"StopPatrol": PTZ stop patrol.

"ToPos": PTZ turn to a specified preset in the specified speed.
```

3.7.6 GetPtzSerial

• Interface Description

GetPtzSerial.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetPtzSerial&token=TOKEN

Field	Description	M/O
channel	The channel number.	M

```
Return data correctly
[
 {
   "cmd": "GetPtzSerial",
   "code": 0,
   "initial": {
     "PtzSerial" : {
      "baudRate": 1200,
      "channel": 0,
      "ctrlAddr": 0,
      "ctrlProtocol": "PELCO_D",
      "dataBit": "CS8",
      "flowCtrl": "none",
      "parity": "none",
      "stopBit": 1
    }
   },
   "range" : {
     "PtzSerial" : {
      "baudRate": [ 1200, 2400, 4800, 9600],
      "channel": 0,
      "ctrlAddr": {
        "max": 64,
        "min":1
      "ctrlProtocol": ["PELCO_D", "PELCO_P"],
      "dataBit": [ "CS8", "CS7", "CS6", "CS5"],
      "flowCtrl": [ "none", "hard", "xon", "xoff"],
      "parity" : [ "none", "odd", "even" ],
      "stopBit" : [ 1, 2 ]
    }
   },
   "value" : {
     "PtzSerial": {
      "baudRate": 1200,
      "channel": 0,
      "ctrlAddr": 0,
      "ctrlProtocol": "PELCO_D",
```

<u> </u>		
Field	description	
channel	The channel number.	
baudRate	The baud rate of the serial in ptz	
ctrlAddr	The control address of the serial in ptz	
ctrlProtocol	The control protocol of the serial in ptz	
dataBit	The data bit of the serial in ptz	
flowCtrl	The flow control of the serial in ptz	
parity	The parity of the serial in ptz	
stopBit	The stop bit of the serial in ptz	

3.7.7 SetPtzSerial

Interface Description

SetPtzSerial.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetPtzSerial&token=TOKEN

Data example		

Field	Description	M/O
channel	The channel number.	М
baudRate	The baud rate of the serial in ptz	0
ctrlAddr	The control address of the serial in ptz, which is	0
	default equal to channel plus 1	
ctrlProtocol	The control protocol of the serial in ptz, which is	0
	between "PELCO_D" and "PELCO_P"	
dataBit	The data bit of the serial in ptz, which is between	0
	"CS8", "CS7", "CS6" and "CS5"	
flowCtrl	The flow control of the serial in ptz, which is	0
	between "none", "hard", "xon" and "xoff"	
parity	The parity of the serial in ptz, which is between	0
	"none", "odd" and "even"	
stopBit	The stop bit of the serial in ptz, which can be 1 or	0
	2	

```
Return data correctly

[
{
    "cmd" : " SetPtzSerial ",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field description

rspCode Response code
```

3.7.8 GetPtzTattern

• Interface Description

GetPtzTattern.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetPtzTattern&token=TOKEN

```
| Price | Pric
```

```
Return data correctly
[
   "cmd": "GetPtzTattern",
   "code": 0,
   "initial" : {
     "PtzTattern" : {
      "channel": 0,
      "track":[
        {
          "enable" : 0,
          "id":1,
         "name" : "",
          "running": 0
        },
          "enable" : 0,
          "id":1,
          "name" : "",
          "running": 0
        },
          "enable": 0,
          "id":1,
          "name" : "",
          "running": 0
        },
          "enable": 0,
          "id":1,
          "name" : "",
          "running" : 0
```

```
"enable": 0,
      "id" : 1,
      "name": "",
      "running": 0
     {
      "enable": 0,
      "id" : 1,
      "name" : "",
      "running": 0
 }
},
"range" : {
 "PtzTattern": \{
   "track" : {
     "enable": "boolean",
     "id" : {
      "max" : 6,
      "min":1
     "name" : {
      "maxLen": 191
     "running" : "boolean"
 }
},
"value" : {
 "PtzTattern" : {
   "channel": 0,
   "track" : [
     {
      "enable" : 0,
       "id" : 1,
      "name": "",
       "running": 0
     },
      "enable": 0,
      "id" : 1,
      "name" : "",
      "running": 0
     },
      "enable" : 0,
```

```
"id" : 1,
    "name" : "",
    "running" : 0
 },
    "enable" : 0,
    "id" : 1,
   "name" : "",
"running" : 0
 },
    "enable" : 0,
   "id": 1,
"name": "",
"running": 0
 },
    "enable": 0,
    "id" : 1,
    "name" : "",
    "running" : 0
  }
]
```

Field	description
channel	The channel number.
id	ID number of the track.
name	The name of the track
enable	Track switch, The value 1 means that's enabled, and 0 means the opposite
running	Whether running or not

3.7.9 SetPtzTattern

Interface Description

SetPtzTattern.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetPtzTattern&token=TOKEN

```
Data example
[
    "cmd": "SetPtzTattern",
    "action": 0,
    "param": {
      "PtzTattern": {
         "channel": 0,
         "track": [
           {
             "id": 1,
             "enable": 0,
             "running": 0,
             "name": "track1"
           },
             "id": 2,
             "enable": 0,
             "running": 0,
             "name": "track2"
        ]
      }
  }
Field description
                     Description
                                                                          M/O
Field
channel
                     The channel number.
                                                                          Μ
```

id	ID number of the track. Range [1~6]	М
name	The name of the track	0
enable	Track switch, The value 1 means that's enabled, and 0 means the opposite	0
	ана с плешна ине сррские	
running	Whether running or not	0

```
Return data correctly

[
{
    "cmd" : " SetPtzTattern",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field description

rspCode Response code
```

3.7.10 GetAutoFocus

• Interface Description

GetAutoFocus.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetAutoFocus&token=TOKEN
-------------	--

POST Data

```
Return data correctly
   "cmd": "GetAutoFocus",
   "code": 0,
   "initial" : {
    "AutoFocus" : {
      "channel": 0,
      "disable": 0
    }
   },
   "range" : {
    "AutoFocus" : {
      "disable" : "boolean"
    }
   },
   "value" : {
    "AutoFocus" : {
      "disable": 0
    }
   }
 }
```

Field description	
Field	description
disable	Forbid the autofocus of the ptz or not

3.7.11 SetAutoFocus

• Interface Description

SetAutoFocus.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetAutoFocus&token=TOKEN

POST Data

Field description

Field	Description	M/O
disable	Forbid the autofocus of the ptz, 1 means	М
	forbidding, 0 means enabling	

```
Return data correctly

[
{
    "cmd" : " SetAutoFocus",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}
]

Field description

Field description

rspCode Response code
```

3.7.12 GetZoomFocus

• Interface Description

GetZoomFocus.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetZoomFocus&token=TOKEN

channel	The channel number.	М

```
Return data correctly
   "cmd" : "GetZoomFocus",
   "code": 0,
   "value" : {
    "ZoomFocus": {
      "channel": 0,
      "focus" : {
       "pos" : 23
      "zoom" : {
        "pos":0
   }
Field description
Field
                     description
                     Forbid the autofocus of the ptz or not
disable
```

3.7.13 StartZoomFocus

Interface Description

StartZoomFocus.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=StartZoomFocus&token=TOKEN

```
Data example
[{
      "cmd": "StartZoomFocus",
      "action": 0,
       "param": {
             "ZoomFocus": {
                    "channel": 0,
                    "pos": 6,
                    "op": "ZoomPos"
             }
      }
Field description
Field
                    Description
                                                                     M/O
channel
                    The channel number.
                                                                     Μ
                    Move to the position
pos
                    Control command
                                                                     0
ор
```

3.7.14 GetPtzGuard

• Interface Description

GetPtzGuard.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetPtzGuard&token=TOKEN

POST Data

```
| Comd": "GetPtzGuard",
| "action": 0,
| "param": {
| "channel": 0
| }
| ]
| Field description | M/O |
| Channel | The channel number. | M
```

```
| Field description |
| Field | description |
| disable | Forbid the autofocus of the ptz or not |
```

3.7.15 SetPtzGuard

• Interface Description

SetPtzGuard.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetPtzGuard&token=TOKEN

Field	Description	M/O
disable	Forbid the autofocus of the ptz, 1 means	M

forbidding, 0 means enabling

• Return data description

```
Return data correctly

[
{
    "cmd" : " SetPtzGuard",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
}

Field description

Field description

rspCode Response code
```

3.7.16 GetPtzCheckState

• Interface Description

GetPtzCheckState.//NVR

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetPtzCheckState&token=TOKEN

```
Data example

[{
        "cmd": "GetPtzCheckState",
        "action": 0,
        "param": {
             "channel": 0
        }
}]
```

Field description		
Field	Description	M/O
channel	The channel number.	М

3.7.17 PtzCheck

• Interface Description

Ptz Check.//NVR

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=PtzCheck&token=TOKEN

Data example			

```
[{
    "cmd": "PtzCheck",
    "action": 1,
    "param": {
        "channel": 0
    }

}]

Field description

Field Description M/O

channel Index of channel M
```

```
Return data correctly

[
{
    "cmd" : " PtzCheck",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
]

Field description

Field description

rspCode Response code
```

3.8 Alarm

3.8.1 GetAlarm

• Interface Description

It is used to get alarm setting.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetAlarm&token=TOKEN

Post Data

```
Data example

[
{
    "cmd":"GetAlarm",
    "action":1,
    "param":{
        "Alarm":{
            "type":"md",
            "channel":0
        }
    }
}
Field description

M/O
```

Field	Description	M/O
channel	Index of channel	М
type	Alarm type , only support "md" now	М

```
Return data correctly

[
    "cmd" : "GetAlarm",
    "code" : 0,
    "initial" : {
     "Alarm" : {
     "channel" : 0,
     "scope" : {
     "cols" : 80,
```

```
"rows": 45,
"table":
```

```
},
  "sens" : [
   "beginHour": 0,
   "beginMin": 0,
   "endHour": 6,
   "endMin": 0,
   "sensitivity": 9
   },
   "beginHour": 6,
   "beginMin": 0,
   "endHour": 12,
   "endMin": 0,
   "sensitivity": 9
   },
   "beginHour": 12,
   "beginMin": 0,
   "endHour": 18,
   "endMin": 0,
   "sensitivity": 9
   },
   "beginHour": 18,
   "beginMin": 0,
   "endHour": 23,
   "endMin": 59,
   "sensitivity": 9
   }
  "type": "md"
 }
 },
 "range" : {
 "Alarm" : {
  "channel": 0,
  "scope" : {
   "cols" : {
```

```
"max": 80,
   "min": 80
 "rows" : {
   "max" : 45,
   "min" : 45
 },
  "table" : {
   "maxLen": 6399
 }
},
"sens" : [
 {
   "beginHour" : {
    "max" : 23,
     "min" : 0
   "beginMin" : {
     "max" : 59,
     "min" : 0
   },
   "endHour" : {
     "max": 23,
     "min" : 0
   "endMin" : {
     "max": 59,
     "min": 0
   },
   "id":0,
   "sensitivity" : {
     "max" : 50,
     "min" : 1
   }
 },
   "beginHour" : {
     "max": 23,
     "min" : 0
   "beginMin": {
     "max" : 59,
     "min" : 0
   "endHour" : {
     "max": 23,
     "min" : 0
```

```
"endMin" : {
   "max" : 59,
   "min": 0
 },
 "id" : 1,
  "sensitivity" : {
   "max" : 50,
   "min" : 1
  }
},
  "beginHour" : {
   "max": 23,
   "min": 0
 },
  "beginMin" : {
   "max": 59,
   "min" : 0
  },
  "endHour" : {
   "max" : 23,
   "min" : 0
  },
  "endMin" : {
   "max": 59,
   "min": 0
 },
  "id" : 2,
 "sensitivity" : {
   "max" : 50,
   "min" : 1
  }
},
 "beginHour" : {
   "max": 23,
   "min": 0
  },
  "beginMin" : {
   "max": 59,
   "min": 0
  "endHour":{
   "max": 23,
   "min" : 0
  },
  "endMin" : {
   "max" : 59,
```

```
"min": 0
},
"id":3,
"sensitivity" : {
"max": 50,
"min": 1
}
}
"type" : "md"
}
"value" : {
"Alarm" : {
"channel": 0,
"scope": {
"cols": 80,
"rows": 45,
"table":
```

```
},
"sens" : [
 "beginHour": 2,
 "beginMin": 0,
 "endHour": 23,
 "endMin": 0,
 "id": 0,
 "sensitivity": 9
 "beginHour": 23,
 "beginMin": 0,
 "endHour": 23,
 "endMin": 0,
 "id": 1,
 "sensitivity": 9
},
 "beginHour": 23,
 "beginMin": 0,
 "endHour": 23,
```

```
"endMin": 0,
    "id": 2,
    "sensitivity": 9
},
{
    "beginHour": 23,
    "beginMin": 0,
    "endHour": 23,
    "endMin": 59,
    "id": 3,
    "sensitivity": 9
}
},
"type": "md"
}
}
```

Field description

Field	description	
channel	Channel number	
scope	Motion detection scope, consisting of 80 columns and 45	
	rows. Appointed by cols and rows.	
cols	The number of col	
rows	The number of row	
table(scope)	A string with the length of 80*45, each byte represents an	
	area. With the value 1 motion detection is active in that	
	period of time. With the value of 0 no response will be made	
	with any detected motion.	
sens	The sensitivity settings for motion detection. It is devided	
	into 4 intervals by time.	
beginHour	The start hour.	
beginMin	The start minute.	

endHour	The ending hour.
endMin	The ending minute.
sensitivity	Sensitivity
id	Section index
type	Alarm type, only "md" is supported.

Note:

When scheduleVersion ver=1 in the capability set, use cmd "GetMdAlarm"

3.8.2 SetAlarm

Interface Description

It is used to set alarm setting.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetAlarm&token=TOKEN

Post Data

```
},
 "sens" : [
 "beginHour": 0,
 "beginMin": 0,
 "endHour": 6,
 "endMin": 0,
 "sensitivity": 10
 },
 "beginHour": 6,
 "beginMin": 0,
 "endHour": 12,
 "endMin": 0,
 "sensitivity": 10
 },
 "beginHour": 12,
 "beginMin": 0,
 "endHour": 18,
 "endMin": 0,
 "sensitivity": 10
 },
 "beginHour": 18,
 "beginMin": 0,
 "endHour": 23,
 "endMin": 59,
```

Field description

Field	Description	M/O
channel	See also GetAlarm	M
scope	See also GetAlarm	0
cols	See also GetAlarm	0
rows	See also GetAlarm	0
table	See also GetAlarm	0
sens	See also GetAlarm	0
beginHour	See also GetAlarm	0
beginMin	See also GetAlarm	0
endHour	See also GetAlarm	0
endMin	See also GetAlarm	0
sensitivity	See also GetAlarm	0
id	See also GetAlarm	0
type	See also GetAlarm	M

Note:

When scheduleVersion ver=1 in the capability set, use cmd "SetMdAlarm"

• Return data description

Return data correctly

```
[
    "cmd":"SetAlarm",
    "code":0,
    "value":{
        "rspCode":200
    }
}

Field description

Field description
```

3.8.3 GetMdAlarm

• Interface Description

It is used to get md alarm setting.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetMdAlarm&token=TOKEN	

Post Data

```
| Comd | GetMdAlarm | Compared |
```

```
Return data correctly
[
   "cmd": "GetMdAlarm",
   "code": 0,
   "initial" : {
     "MdAlarm" : {
      "channel": 0,
      "newSens" : {
        "sens" : [
          {
           "beginHour": 0,
           "beginMin": 0,
           "enable": 0,
           "endHour": 0,
           "endMin": 0,
           "id": 0,
           "priority": 0,
           "sensitivity": 0
          },
           "beginHour": 0,
           "beginMin": 0,
           "enable" : 0,
           "endHour": 0,
           "endMin": 0,
           "id":1,
           "priority": 0,
           "sensitivity": 0
          },
           "beginHour": 0,
           "beginMin": 0,
           "enable" : 0,
           "endHour": 0,
           "endMin": 0,
           "id": 2,
           "priority": 0,
           "sensitivity": 0
          },
           "beginHour": 0,
           "beginMin": 0,
           "enable": 0,
```

```
"endHour": 0,
"endMin": 0,
"id":3,
"priority": 0,
"sensitivity": 0
],
"sensDef": 25
"scope" : {
"cols": 80,
"rows": 60,
"table":
```

```
"sens" : [
"beginHour": 0,
"beginMin": 0,
"endHour": 6,
"endMin": 0,
"id": 0,
"sensitivity": 9
```

```
"beginHour" : 6,
      "beginMin": 0,
      "endHour": 12,
      "endMin": 0,
      "id" : 1,
      "sensitivity": 9
    },
    {
      "beginHour": 12,
      "beginMin": 0,
      "endHour": 18,
      "endMin": 0,
      "id": 2,
      "sensitivity": 9
    },
      "beginHour": 18,
      "beginMin": 0,
      "endHour": 23,
      "endMin": 59,
      "id":3,
      "sensitivity": 9
    }
   "useNewSens": 1
 }
"range" : {
 "MdAlarm" : {
   "channel": 0,
   "newSens": {
     "sens" : [
        "beginHour" : {
          "max" : 23,
          "min": 0
        },
        "beginMin" : {
          "max": 59,
          "min": 0
        "enable" : {
          "max": 1,
          "min" : 0
        },
        "endHour" : {
         "<u>max" : 23,</u>
```

```
"min" : 0
  },
  "endMin" : {
   "max" : 59,
   "min" : 0
  },
  "id" : 0,
 "priority" : {
   "max" : 0,
   "min" : 0
  },
  "sensitivity" : {
   "max": 50,
   "min":1
  }
},
  "beginHour" : {
   "max" : 23,
   "min": 0
  },
  "beginMin" : {
   "max" : 59,
   "min": 0
  },
  "enable" : {
   "max": 1,
   "min": 0
 },
  "endHour" : {
   "max": 23,
   "min" : 0
  },
 "endMin" : {
   "max": 59,
   "min" : 0
  },
  "id": 1,
  "priority" : {
   "max": 0,
   "min": 0
  "sensitivity" : {
   "max":50,
   "min":1
  }
},
```

```
"beginHour": {
   "max" : 23,
   "min" : 0
 },
 "beginMin": {
   "max" : 59,
   "min": 0
 },
 "enable" : {
   "max": 1,
   "min": 0
 },
 "endHour": {
   "max": 23,
   "min": 0
 },
 "endMin" : {
   "max": 59,
   "min" : 0
 },
 "id" : 2,
 "priority" : {
   "max" : 0,
   "min": 0
 "sensitivity" : {
   "max": 50,
   "min":1
 }
},
 "beginHour" : {
   "max" : 23,
   "min" : 0
 },
 "beginMin" : {
   "max": 59,
   "min" : 0
 "enable" : {
   "max":1,
   "min" : 0
 },
 "endHour" : {
   "max" : 23,
   "min" : 0
 },
 "endMin": {
```

```
"max": 59,
       "min": 0
     },
     "id" : 3,
     "priority" : {
      "max" : 0,
      "min" : 0
     },
     "sensitivity" : {
      "max": 50,
      "min":1
    }
   }
 ],
 "sensDef" : {
   "max": 50,
   "min" : 1
 }
},
"scope" : {
 "cols" : {
   "max": 80,
   "min": 80
 },
 "rows" : {
   "max": 60,
   "min" : 60
 },
 "table" : {
   "maxLen" : 8159
 }
},
"sens" : [
   "beginHour" : {
    "max": 23,
     "min" : 0
   "beginMin" : {
     "max": 59,
     "min" : 0
   "endHour":{
    "max": 23,
     "min" : 0
   "endMin" : {
    "max" : 59,
```

```
"min" : 0
 },
  "id": 0,
  "sensitivity" : {
   "max" : 50,
   "min" : 1
 }
},
{
 "beginHour" : {
   "max": 23,
   "min" : 0
  },
  "beginMin" : {
   "max" : 59,
   "min" : 0
 },
  "endHour": {
   "max" : 23,
   "min" : 0
  },
 "endMin" : {
   "max": 59,
   "min": 0
 },
  "id": 1,
  "sensitivity": {
   "max": 50,
   "min" : 1
 }
},
 "beginHour" : {
   "max" : 23,
   "min" : 0
  "beginMin": {
   "max": 59,
   "min" : 0
 },
  "endHour": {
   "max" : 23,
   "min" : 0
  "endMin" : {
   "max" : 59,
   "min" : 0
```

```
"id" : 2,
      "sensitivity": {
        "max" : 50,
        "min" : 1
      }
    },
      "beginHour" : {
        "max": 23,
        "min": 0
      "beginMin": {
        "max": 59,
        "min": 0
      },
      "endHour" : {
        "max": 23,
        "min" : 0
      },
      "endMin" : {
       "max" : 59,
        "min": 0
      },
      "id": 3,
      "sensitivity" : {
        "max": 50,
        "min":1
    }
   "useNewSens": {
    "max" : 1,
    "min": 0
   }
 }
},
"value" : {
 "MdAlarm" : {
   "channel": 0,
   "newSens": {
    "sens" : [
        "beginHour": 0,
        "beginMin": 0,
        "enable" : 0,
        "endHour": 0,
        "endMin": 0,
        "id": 0,
```

```
"priority": 0,
    "sensitivity": 0
    "beginHour": 0,
    "beginMin": 0,
    "enable" : 0,
    "endHour": 0,
    "endMin": 0,
    "id": 1,
    "priority": 0,
    "sensitivity": 0
    },
    "beginHour": 0,
    "beginMin": 0,
    "enable": 0,
    "endHour": 0,
    "endMin": 0,
    "id": 2,
    "priority": 0,
    "sensitivity": 0
    },
    "beginHour": 0,
    "beginMin": 0,
    "enable": 0,
    "endHour": 0,
    "endMin": 0,
    "id":3,
    "priority": 0,
    "sensitivity": 0
    }
   ],
   "sensDef": 25
  "scope" : {
   "cols": 80,
   "rows": 60,
   "table":
```

```
},
 "sens" : [
 "beginHour": 0,
 "beginMin": 0,
 "endHour": 6,
 "endMin": 0,
 "id": 0,
 "sensitivity": 9
 },
 "beginHour": 6,
 "beginMin": 0,
 "endHour": 12,
 "endMin": 0,
 "id": 1,
 "sensitivity": 9
 },
 "beginHour": 12,
 "beginMin": 0,
 "endHour": 18,
 "endMin": 0,
 "id": 2,
 "sensitivity": 9
 },
 "beginHour": 18,
 "beginMin": 0,
 "endHour": 23,
 "endMin": 59,
```

Field description

Tield description	
description	
Channel number	
Motion detection scope, consisting of 80 columns and 45	
rows. Appointed by cols and rows.	
The number of col	
The number of row	
A string with the length of 80*45, each byte represents an	
area. With the value 1 motion detection is active in that	
period of time. With the value of 0 no response will be made	
with any detected motion.	
The sensitivity settings for motion detection. It is devided	
into 4 intervals by time.	
The start hour.	
The start minute.	
The ending hour.	
The ending minute.	
Sensitivity	
Section index	
Alarm type, only "md" is supported.	

priority	Priority of alarm type
sensDef	The sensitiveity value
useNewSens	

3.8.4 SetMdAlarm

• Interface Description

It is used to set alarm setting.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetMdAlarm&token=TOKEN

Post Data

```
Data example
[{
 "cmd": "SetMdAlarm",
 "param": {
  "MdAlarm": {
   "channel": 0,
   "scope": {
    "cols": 120,
    "rows": 67,
    "table":
```

```
},
  "useNewSens": 1,
  "newSens": {
   "sensDef": 10,
   "sens": {
    "sensitivity": 10,
    "beginHour": 0,
    "beginMin": 0,
    "endHour": 6,
    "endMin": 0,
    "priority": 0,
    "enable": 0
   }
  }
 }
}
```

Field description

Field	Description	M/O
channel	See also GetAlarm	М
scope	See also GetAlarm	0
cols	See also GetAlarm	0
rows	See also GetAlarm	0
table	See also GetAlarm	0

sens	See also GetAlarm	0
beginHour	See also GetAlarm	0
beginMin	See also GetAlarm	0
endHour	See also GetAlarm	0
endMin	See also GetAlarm	0
sensitivity	See also GetAlarm	0
id	See also GetAlarm	0
type	See also GetAlarm	М
priority	See also GetAlarm	

3.8.5 GetMdState

• Interface Description

It is used to get state of MD.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetMdState&token=TOKEN

POST Data

Field description	
Field	description
state	The state of motion detection. The value 1 means motions have been detected and 0 means no motion has been detected.

3.8.6 GetAudioAlarm

• Interface Description

GetAudioAlarm.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetAudioAlarm&token=TOKEN

POST Data

Field description

Field	Description	M/O

Note:

When scheduleVersion ver=1 in the capability set, use cmd "GetAudioAlarmV20"

```
Return data correctly
[
 "cmd": "GetAudioAlarm",
 "code": 0,
 "initial" : {
  "Audio" : {
  "schedule": {
   "enable": 0,
   "table":
}
  }
 },
 "range" : {
  "Audio" : {
  "schedule": {
   "enable": "boolean",
   "table" : {
    "maxLen": 168,
    "minLen": 168
   }
  }
  }
 "value" : {
  "Audio": {
  "schedule": {
   "enable": 0,
   "table":
}
  }
 }
}
```

Field description	
Field	description
table	See also GetAlarm

3.8.7 SetAudioAlarm

Interface Description

SetAudioAlarm.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= SetAudioAlarm&token=TOKEN

Post Data

Field description

Field	Description	M/O
enable	See also GetAlarm	0

table	See also GetAlarm	0
Note:		
When scheduleVersion ver=1 in the capability set, use cmd "SetAudioAlarmV20"		

```
Return data correctly

[

"cmd": "SetAlarm",
"code": 0,
"value": {
    "rspCode": 200
    }
}

Field description

Field description
```

3.8.8 GetAudioAlarmV20

Interface Description

It is used to get configuration of AudioAlarm

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetAudioAlarmV20&token=TOKEN

POST Data

Data example	
[

```
Return data correctly
 "cmd": "GetAudioAlarmV20",
 "code": 0,
 "initial" : {
 "Audio" : {
 "enable": 0,
 "schedule" : {
  "channel": 15,
  "table" : {
  "AI PEOPLE":
"AI VEHICLE":
"MD":
1111111111111111111111111111111111
  }
```

```
"range" : {
  "Audio" : {
  "enable" : "boolean",
  "schedule" : {
   "channel": 15,
   "table" : {
    "AI PEOPLE": {
     "table" : {
     "maxLen": 168,
     "minLen": 168
    "AI VEHICLE": {
     "table" : {
     "maxLen": 168,
     "minLen": 168
    },
    "MD": {
     "table" : {
     "maxLen": 168,
     "minLen": 168
 "value" : {
  "Audio" : {
  "enable" : 0,
   "schedule" : {
   "channel": 15,
   "table" : {
    "AI PEOPLE":
"AI VEHICLE":
"MD":
1111111111111111111111111111111111
   }
```

```
Field description

Field description

table Audio alarm switch

channel Index of channel
```

3.8.9 SetAudioAlarmV20

• Interface Description

It is used to set configuration of audio alarm

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=
	SetAudioAlarmV20&token=TOKEN

POST Data

```
"schedule": {
               "channel": 0,
               "table": {
                   "MD":
111111111111111111111111100"
       }
Field description
Field
        Description
                                      M/O
        Schedule switch
Schedule->en
                                      O
able
Schedule->tab
        Schedule table
                                      O
le
```

3.8.10 GetBuzzerAlarmV20

Interface Description

It is used to get configuration of BuzzerAlarm

• Interface call instructions

Request URL	http://NVR_IP/api.cgi?cmd=GetBuzzerAlarmV20&token=TOK
	EN

POST Data

```
"Buzzer" : {
   "diskErrorAlert": 0,
  "diskFullAlert": 0,
  "enable" : 0,
  "ipConflictAlert": 0,
  "nvrDisconnectAlert": 0,
   "schedule" : {
   "channel": 0,
   "table" : {
    "AI PEOPLE":
"AI VEHICLE":
"MD":
111111111111111111111111111111111",
    "VL":
"range" : {
  "Buzzer" : {
   "diskErrorAlert": "boolean",
  "diskFullAlert": "boolean",
  "enable": "boolean",
  "ipConflictAlert": "boolean",
  "nvrDisconnectAlert": "boolean",
   "schedule" : {
   "channel": 0,
   "table" : {
    "AI PEOPLE": {
     "table" : {
     "maxLen": 168,
     "minLen": 168
    "AI VEHICLE": {
     "table" : {
     "maxLen": 168.
```

```
"minLen": 168
   "MD" : {
   "table" : {
    "maxLen": 168,
    "minLen": 168
   "VL" : {
   "table" : {
    "maxLen": 168,
    "minLen": 168
 "value" : {
 "Buzzer" : {
  "diskErrorAlert": 0,
  "diskFullAlert": 0,
  "enable" : 0,
  "ipConflictAlert": 0,
  "nvrDisconnectAlert": 0,
  "schedule": {
  "channel": 0,
  "table" : {
   "AI PEOPLE":
"AI VEHICLE":
"MD":
1111111111111111111111111100",
   "VL":
}
```

```
}
Field description
                     description
Field
                     Disk error Alert
diskErrorAlert
diskFullAlert
                     Disk full Alert
enable
                     Buzzer switch
ipconflictAlert
                     Ipc conflict Alert
                     Index of channel
channel
                     Schedule table
table
                     Nvr Disconnect Alert
nvrDisconnectAlert
```

3.8.11 SetBuzzerAlarmV20

• Interface Description

It is used to set configuration of Buzzer alarm

• Interface call instructions

Request URL	http://NVR_IP/api.cgi?cmd=
	SetBuzzerAlarmV20&token=TOKEN

POST Data

```
"channel": 0,
         "table": {
            "MD":
111111111111111111111111100",
            "TIMING":
Field description
     Description
Field
                        M/O
Schedule->en
     Buzzer switch
                        O
able
     Schedule table
Schedule->tab
                        O
le
```

rspCode	Response code

3.8.12 AudioAlarmPlay

Interface Description

It is used to play audio alarm

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=AudioAlarmPlay&token=TOKEN

Post Data

```
Data example

[{
     "cmd": "AudioAlarmPlay",
     "action": 0,
     "param": {
          "alarm_mode": "times",
          "manual_switch": 0,
          "times": 2,
          "channel": 0
     }

Field description
```

Field	Description	M/O
channel	Index of channel	M
manual_switch	Switch of manual	0
times	Times of Audio alarm	0
alarm_mode	Alarm mode : "times"/"manu"	0

```
Return data correctly

[
{
    "cmd" : " AudioAlarmPlay",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
]

Field description

Field description
```

3.9 RTMP

3.9.1 rtmp=start

Interface Description

```
rtmp=start
```

Interface call instructions

```
Request URL http://IPC_IP/api.cgi?cmd= rtmp=start&token=TOKEN
```

POST Data

Field description		
Field	Description	M/O
channel	Index of channel	М
enable	Switch to start rtmp	М
type	Type of code stream	0

```
Return data correctly

[
{
    "cmd" : " rtmp=start",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
]

Field description

Field description

rspCode Response code
```

3.9.2 rtmp=stop

Interface Description

```
rtmp=stop
```

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= rtmp=stop&token=TOKEN

POST Data

```
Return data correctly

[
{
    "cmd":"rtmp=stop",
    "code":0,
    "value":{
        "rspCode":200
    }
}
]

Field description

Field description

rspCode Response code
```

3.9.3 rtmp=auth

• Interface Description

```
rtmp=auth
```

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= rtmp=auth&token=TOKEN

POST Data

Field	description
rspCode	Response code

3.10 LED

3.10.1 GetIrLights

Interface Description

It is used to get Irlights information of device.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetIrLights&token=TOKEN

POST Data

```
Return data correctly

[
{
    "cmd": "GetIrLights",
    "code": 0,
```

```
"value": {
       "IrLights": {
         "state": 0
     },
    "initial": {
       "IrLights": {
         "state": 0
       }
     },
     "range": {
       "IrLights": {
         "state": {
            "Auto"
            "Off"
            "On"
       }
    }
  }
Field description
                        description
Field
                       The state of irlight
state
```

3.10.2 SetIrLights

• Interface Description

It is used to set configuration of IrLights.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetIrLights&token=TOKEN

Post Data

```
Data example

[{
     "cmd": "SetIrLights",
     "action": 0,
     "param": {
          "IrLights": {
```

```
"channel": 0,
"state": "Auto"

}

Field description

Field Description

Channel Index of channel M
```

```
Return data correctly

[
{
    "cmd" : "SetIrLights",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field description
```

3.10.3 GetPowerLed

• Interface Description

It is used to get power led information of device.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetPowerLed&token=TOKEN

POST Data

```
Data example

[ {
    "cmd":"GetPowerLed"
    }
]
Field description

Field Description M/O
```

```
Return data correctly
[
    "cmd": "GetPowerLed",
    "code": 0,
    "value": {
      "PowerLed": {
        "channel": 0,
        "state": 0
      }
    },
    "range": {
      "PowerLed": {
        "state": {
          "On"
          "Off"
        }
      }
    }
  }
```

Field description	
Field	description
state	State of power led

3.10.4 SetPowerLed

Interface Description

It is used to set power led information of device.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd= SetPowerLed &token=TOKEN

POST Data

```
Data example
              "cmd":"SetPowerLed",
    "param":{
                     "PowerLed":{
                            "state":"Off",
                            "channel":0
                     }
    }
      }
Field description
Field
                    Description
                                                                      M/O
                    State of power led
state
Note :Only for devices with power led
```

```
Return data correctly

[
{
    "cmd" : " SetPowerLed ",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
    }
}

Field description

Field description

rspCode Response code
```

3.10.5 GetWhiteLed

• Interface Description

It is used to get configuration of white led.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetWhiteLed&token=TOKEN

Post Data

```
Data example

[{
        "cmd": "GetWhiteLed",
        "action": 0,
        "param": {
            "channel": 0
        }
}]
```

Field description		
Field	Description	M/O
channel	Index of channel	М

```
Return data correctly
[
   "cmd": "GetWhiteLed",
   "code": 0,
   "initial" : {
     "WhiteLed" : {
      "wlAiDetectType" : {
        "dog_cat": 0,
        "face": 0,
        "people": 0,
        "vehicle": 0
      }
    }
   },
   "range" : {
    "AiDetectType" : {
      "dog_cat": "boolean",
      "face": "boolean",
      "people": "boolean",
      "vehicle" : "boolean"
     },
    "WhiteLed": \{\\
      "bright" : {
        "max": 100,
        "min":0
      }
    }
   },
   "value" : {
    "WhiteLed" : {
      "LightingSchedule" : {
        "EndHour": 6,
        "EndMin": 0,
        "StartHour": 18,
        "StartMin" : 0
```

```
},
    "bright": 79,
    "channel": 0,
    "mode": 1,
    "state": 0,
    "wlAiDetectType": {
        "dog_cat": 1,
        "face": 0,
        "people": 1,
        "vehicle": 0
      }
    }
}
```

Field description

Field	description
channel	Channel number
state	White led state
auto	White led auto mode
bright	Current brightness
mode	Brightness state

3.10.6 SetWhiteLed

• Interface Description

It is used to set configuration of white led.

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetWhiteLed&token=TOKEN

Post Data

```
Data example
[{
        "cmd": "SetWhiteLed",
        "param": {
                "WhiteLed": {
                        "state": 0,
                        "channel": 0,
                        "mode": 1,
                        "bright": 79,
                        "LightingSchedule": {
                               "EndHour": 6,
                                "EndMin": 0,
                                "StartHour": 18,
                                "StartMin": 0
                       },
"wlAiDetectType": {
    "" car cat": 1,
                                "dog_cat": 1,
                                "face": 0,
                                "people": 1,
                                "vehicle": 0
                        }
                }
        }
```

Field description

Field	Description	M/O
channel	Index of channel	М
state	White led state	0
mode	Brightness state	0
bright	Current brightness	0
wlAiDetectTyp	The ai detect type of white led	0
е		

3.10.7 GetAiAlarm

• Interface Description

It is used to get configuration of ai alarm

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetAiAlarm&token=TOKEN

Post Data

```
Data example

[{
        "cmd": "GetAiAlarm",
        "action": 0,
        "param": {
            "channel": 0,
            "ai_type": "people"
        }

}]
```

Field description		
Field	Description	M/O
channel	Index of channel	М
ai_type	Ai type	0

```
Return data correctly
ſ
"cmd": "GetAiAlarm",
"code": 0,
"value" : {
"ai_detect_type" : "people",
"height": 60,
"max_target_height": 0.0,
"max_target_width": 0.0,
"min_target_height": 0.0,
"min_target_width": 0.0,
"scope" : {
"area":
```

3.10.7 SetAiAlarm

Interface Description

It is used to set configuration of ai alarm

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetAiAlarm&token=TOKEN

Post Data

```
Temple

[{

    "cmd": "SetAiAlarm",
    "param": {

         "channel": 0,
         "AiAlarm": {

                "ai_type": "people",
                "sensitivity": 10,
                "stay_time": 0,
                "width": 80,
```

```
"height": 60,
"scope": {
"area":
```

```
"min_target_height": 0.0,
"max_target_height": 1.0,
"min_target_width": 0.0,
"max_target_width": 1.0
}
```

Field description

Field	Description	M/O
channel	Index of channel	М
ai_type	Ai type	0
sensitivity	Sensitivity of ai alarm	0

stay_time	Stay time	0

```
Return data correctly

[
{
    "cmd" : "SetAiAlarm",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field description
```

3.10.8 SetAlarmArea

Interface Description

It is used to set alarm area.

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetAlarmArea&token=TOKEN

Post Data

```
Data example

[{
    "cmd": "SetAlarmArea",
    "param": {
```

"channel": 0, "ai_type": "people", "width": 80, "height": 60, "area":

```
}
```

Field description

Field	Description	M/O
channel	Index of channel	М
ai_type	Type of ai alarm	0
width	Width of alarm area	0
height	Height of alarm area	0

```
Return data correctly

[
{
    "cmd" : "SetAlarmArea",
    "code" : 0,
    "value" : {
        "rspCode" : 200
    }
}

Field description

Field description
```

3.11 AI

3.11.1 GetAiCfg

• Interface Description

It is used to get configuration of ai

Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetAiCfg&token=TOKEN

Post Data

```
Data example

[{
        "cmd": "GetAiCfg",
        "action": 0,
        "param": {
             "channel": 0
        }
```

}] Field description		
Field Description M/O		M/O
channel	Index of channel	М

```
Return data correctly
[
   "cmd" : "GetAiCfg",
   "code": 0,
   "value" : {
    "AiDetectType" : {
      "dog_cat": 1,
      "face": 0,
      "people" : 1,
      "vehicle": 1
    },
     "aiTrack": 0,
    "channel": 0,
     "trackType" : {
      "dog_cat": 0,
      "face" : 0,
      "people": 1,
      "vehicle": 0
   }
 }
Field description
                      description
Field
```

3.11.2 SetAiCfg

Interface Description

It is used to set ai detect type and ai track type

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=SetAiCfg&token=TOKEN

POST Data

```
| Comd": "SetAiCfg",
| "action": 0,
| "param": {
| "aiTrack": 0,
| "trackType": {},
| "AiDetectType": {
| "people": 1,
| "vehicle": 1,
| "dog_cat": 1,
| "face": 0
| },
| "channel": 0
| }
```

Field description

Field	Description	M/O
channel	Index of channel	M
aiTrack	Switch to aiTrack	0
trackType	Ai track type	0
AiDetectType	Ai detect type	0
people	People detection	0
vehicle	Vehicle detection	0
Dog_cat	Dog and cat detection	0
face	Face detection	0

3.11.3 GetAiState

Interface Description

It is used to get ai alarm state

• Interface call instructions

Request URL	http://IPC_IP/api.cgi?cmd=GetAiState&token=TOKEN

POST Data

}		
Field descripti	ion	
Field	Description	M/O
channel	Index of channel	М
		•

```
Return data correctly
[
   "cmd" : "GetAiState",
   "code": 0,
   "value" : {
    "channel": 0,
    "dog_cat" : {
      "alarm_state": 0,
      "support" : 1
     "face" : {
      "alarm_state": 0,
      "support" : 0
    },
    "people": {
      "alarm_state" : 0,
      "support": 1
     "vehicle" : {
      "alarm_state" : 0,
      "support": 1
    }
 }
Field description
                     description
Field
```

alarm_state	Alarm state
support	Whether support or not

4. Response

4.1 Error

```
Error Response
    "cmd":string,
    "code":0,
    "error":{
      "rspCode":int,
      "detail":string
  }
rspCode
             Details
                                                   Description
-1
            not exist
                                                   Missing parameters
-2
             out of mem
                                                   Used up memory
-3
            check err
                                                   Check error
-4
             param error
                                                   Parameters error
-5
             max session
                                                   Reached the max session
                                                   number.
-6
            please login first
                                                   Login required
-7
             login failed
                                                   Login error
                                                   Operation timeout
-8
            timeout
-9
            not support
                                                   Not supported
```

-10	protocol	Protocol error
-11	fcgi read failed	Failed to read operation
-12	get config failed	Failed to get configuration.
-13	set config failed	Failed to set configuration.
-14	malloc failed	Failed to apply for memory
-15	create socket failed	Failed to created socket
-16	send failed	Failed to send data
-17	rcv failed	Failed to receiver data
-18	open file failed	Failed to open file
-19	read file failed	Failed to read file
-20	write file failed	Failed to write file
-21	error token	Token error
-22	The length of the string exceeds the	The length of the string
	limit	exceeds the limitmation
-23	missing param	Missing parameters
-24	error command	Command error
-25	internal error	Internal error
-26	ability error	Ability error
-27	invalid user	Invalid user
-28	user already exist	User already exist
-29	maximum number of users	Reached the maximum
		number of users
-30	same version	The version is identical to the
		current one.
-31	busy	Ensure only one user can

		upgrade
-32	ip conflict	Modify IP conflicted with
		used IP
-34	need bing email	Cloud login need bind email
		first
-35	unbind	Cloud login unbind camera
-36	network timeout	Cloud login get login
		information out of time
-37	password err	Cloud login password error
-38	uid err	Cloud bind camera uid error
-39	user not exist	Cloud login user doesn't exist
-40	unbind failed	Cloud unbind camera failed
-41	cloud not support	The device doesn't support
		cloud
-42	login cloud server failed	Cloud login server failed
-43	bind failed	Cloud bind camera failed
-44	cloud unknown err	Cloud unknown error
-45	need verify code	Cloud bind camera need
		verify code
-48	Fetching a picture failed	Snap a picture failed
-49	Channel invalid	Channel is invalid
-99		
-100	test failed	Test Email、Ftp、Wifi failed
-101	check firmware failed	Upgrade checking firmware
		failed

download online failed	Upgrade download online
	failed
get upgrade status failed	Upgrade get upgrade status
	failed
Frequent logins, please try again	Frequent logins
later!	
ftp login failed	ftp test login failed
ftp create dir failed	Creat ftp dir failed
ftp upload failed	Upload ftp file failed
ftp connect failed	Cannot connect ftp server
email undefined failed	Some undifined errors
email connect failed	Cannot connect email server
email auth failed	Auth user failed
email network err	Email network err
email server err	Something wrong with email
	server
email memory err	Something wrong with
	memory
	get upgrade status failed Frequent logins, please try again later! ftp login failed ftp create dir failed ftp upload failed ftp connect failed email undefined failed email connect failed email server err

Note: Field "details" means more detailed error information.