# Camera HTTP API User Guide

**Version 4** 

2019-9

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	
	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	
	9. 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 system mode	2010 0 00
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				

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# 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&paramxxx=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 <u>JavaScript</u>

<u>Programming Language</u>, <u>Standard ECMA-262 3rd Edition - December</u>

<u>1999</u>.

## **Request:**

## **Response:**

#### 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={streamType}
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 correspo	ndences between the streamName and streamType in Request
URL is shown as foll	ow:
Main Streamstream	Name=main, streamType=0.
Sub StreamstreamN	lame=sub, streamType=1.
Extern Streamstream	mName=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
Nequest ONL	IIIIp.//IPC IP/api.cgi:ciliu=GetAbility&tokeli=TOKLN

## Post Data

Field description

Field	Description	M/O
userName	User name, it should be consisted of less than 32	М
	characters, if the user name is NULL, then it would get	
	current user ability.	

#### Return data description

## 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.

```
"alarmAudio" : {
 "permit": 6,
 "ver" : 1
},
"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": 6,
 "ver" : 1
},
"enc" : {
 "permit" : 6,
 "ver" : 1
},
"floodLight" : {
 "permit": 6,
 "ver" : 1
```

```
"ftp" : {
 "permit" : 6,
 "ver" : 6
},
"image" : {
 "permit": 6,
 "ver" : 1
},
"indicatorLight" : {
 "permit": 0,
 "ver":0
},
"isp" : {
 "permit" : 6,
 "ver" : 1
},
"isp3Dnr" : {
 "permit": 6,
 "ver" : 1
"ispAntiFlick" : {
 "permit" : 6,
 "ver" : 1
},
"ispBackLight" : {
 "permit" : 6,
 "ver" : 1
},
"ispBright" : {
 "permit" : 6,
 "ver" : 1
},
"ispContrast" : {
 "permit": 6,
 "ver" : 1
"ispDayNight" : {
 "permit" : 6,
 "ver" : 1
"ispExposureMode" : {
 "permit" : 6,
```

```
"ver" : 1
},
"ispFlip" : {
 "permit" : 6,
 "ver" : 1
},
"ispHue" : {
 "permit" : 6,
 "ver" : 1
},
"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" : 1,
 "ver" : 0
},
"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" : 7,
 "ver" : 2
},
"ptzDirection" : {
 "permit" : 1,
 "ver" : 1
},
"ptzPatrol" : {
 "permit" : 7,
 "ver" : 0
"ptzPreset" : {
 "permit" : 7,
 "ver" : 1
"ptzTattern" : {
 "permit" : 7,
 "ver" : 0
},
"ptzType" : {
 "permit": 0,
 "ver" : 5
```

```
"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
   "videoClip" : {
     "permit": 6,
     "ver" : 2
   "waterMark" : {
    "permit" : 6,
     "ver" : 1
   },
   "white_balance" : {
     "permit" : 6,
     "ver":0
   }
 }
],
"alarmAudio": {
 "permit" : 6,
 "ver" : 1
"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": 6,
 "ver" : 35
},
"customAudio": {
 "permit" : 1,
 "ver" : 1
"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" : 6,
 "ver" : 1
},
"disk" : {
 "permit" : 6,
 "ver" : 1
},
"display" : {
 "permit" : 6,
 "ver" : 1
},
"email" : {
 "permit" : 6,
 "ver":3
"emailInterval" : {
 "permit": 6,
 "ver" : 1
"emailSchedule" : {
 "permit" : 6,
 "ver" : 1
},
"exportCfg" : {
 "permit": 4,
 "ver" : 1
},
"ftpAutoDir" : {
 "permit" : 6,
 "ver":0
},
"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" : 1
"httpFlv" : {
 "permit" : 6,
 "ver" : 1
},
"https" : {
 "permit" : 6,
 "ver" : 1
},
"importCfg" : {
 "permit" : 1,
 "ver" : 0
},
"ipcManager" : {
 "permit": 6,
 "ver" : 1
"ledControl" : {
 "permit" : 5,
 "ver" : 2
},
"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":1
},
"p2p" : {
 "permit": 0,
 "ver" : 0
"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" : 1
},
"rtsp" : {
 "permit" : 6,
 "ver" : 2
"scheduleVersion" : {
 "permit" : 6,
 "ver" : 1
},
"sdCard" : {
 "permit" : 6,
 "ver" : 1
"showQrCode" : {
 "permit" : 6,
 "ver" : 0
```

```
"simMoudule" : {
 "permit": 6,
 "ver" : 0
},
"supportAudioAlarm" : {
 "permit" : 6,
 "ver" : 1
"supportAudioAlarmEnable" : {
 "permit": 6,
 "ver" : 1
},
"supportAudioAlarmSchedule" : {
 "permit" : 6,
 "ver" : 1
},
"supportAudioAlarmTaskEnable" : {
 "permit" : 6,
 "ver" : 1
},
"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
```

```
"supportFtpEnable" : {
 "permit" : 6,
 "ver" : 1
"supportFtpTask" : {
 "permit" : 6,
 "ver" : 1
},
"supportFtpTaskEnable" : {
 "permit" : 6,
 "ver" : 1
},
"supportRecScheduleEnable" : {
 "permit" : 6,
 "ver" : 1
"supportRecordEnable" : {
 "permit": 6,
 "ver" : 1
},
"talk" : {
 "permit": 4,
 "ver" : 1
},
"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": 6,
    "ver": 259
},

"wifiTest": {
    "permit": 6,
    "ver": 1
}
}
}
```

Field description		
Field	ver	permit
abilityChn->mask	0: not support	1: option
	1: support	2: write
abilityChn->image	0: not support	4: read
	1: support	7: read &
abilityChn->isp	0: not support	write &
	1: support	option
abilityChn->white_balance	0: not support	
	1: support	
abilityChn->cameraMode	0: not support	
	1: support	
abilityChn->osd	0: not support	
	1: support	
	2: 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 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 file
abilityChn >rocPonlay	
abilityChn->recReplay	0: not support playback record file online
	1: support playback record file online file
ahilityChn >ntzTyno	
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
	, ,
ahilityChn >nt-7Ct-rl	support speed adjustment
abilityChn->ptzCtrl	0: not support,
	1: support control zoom
	2: support control zoom and
abilityCha > ntaBassat	focus with slider
abilityChn->ptzPreset	0: not support,
ability Charles at Ballian	1: support
abilityChn->ptzPatrol	0: not support,
1 1111 01	1: support
abilityChn->ptzTattern	0: not support,
	1: support

abilityChn->ptzDirection	0: support 8 directions + auto	
domeyerm > pt25meedon	scan	
	1: support only 4 directions, no	
	auto scan	
abilityChn->alarmIoIn	0: not support,	
	1: support	
abilityCha > alarmIaOut		
abilityChn->alarmIoOut	0: not support,	
a hailithe Chana a alla man Df	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	0: 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	
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	
and the second s	1: support	
abilityChn->ispWhiteBalance	0: not support	
asinty chin / isp with tebalance	1: support	
abilityChn->ispBackLight	0: not support	
ability Cilli / 13pDackLight	1: support	
ahilityCha Sica2Dar		
abilityChn->isp3Dnr	0: not support	

	1: support
abilityChn->ispMirror	0: not support
domeyerm / ispirimer	1: support
abilityChn->ispFlip	0: not support
	1: support
abilityChn->ispBright	0: not support
domeyerm / isperigite	1: support
abilityChn->ispContrast	0: not support
ability cilii y ispecificast	1: support
abilityChn->ispSaturation	0: not support
asincy cim vispoutaration	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
, 55	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 format
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
uispiay	1: support
incManagor	
ipcManager	0: not support
da. dafa	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	1: support 0: not support

1	_
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
emailSchedule	0: schedule is not supported 1: support schedule
emailSchedule upnp	
	1: support schedule
	1: support schedule 0: not support
upnp	1: support schedule 0: not support 1: support
upnp	1: support schedule 0: not support 1: support 0: not support
upnp	1: support schedule 0: not support 1: support 0: not support 1: support
upnp	1: support schedule 0: not support 1: support 0: not support 1: support 0: not support
upnp onvif ntp	1: support schedule 0: not support 1: support 0: not support 1: support 0: not support 1: support
upnp onvif ntp	1: support schedule 0: not support 1: support 0: not support 1: support 0: not support 1: support 0: not support
upnp onvif ntp mediaPort	1: support schedule 0: not support 1: support 0: not support 1: support 0: not support 1: support 1: support 1: support 1: support
upnp onvif ntp mediaPort	1: support schedule 0: not support 1: support 0: not support 1: support 0: not support 1: support 1: support 0: not support 0: not support 1: support
upnp onvif ntp mediaPort http	1: support schedule 0: not support 1: support 1: support 1: support
upnp onvif ntp mediaPort http	1: support schedule 0: not support 1: support 0: not support 0: not support
upnp onvif ntp mediaPort http https	1: support schedule 0: not support 1: support 1: support 1: support
upnp onvif ntp mediaPort http https	1: support schedule 0: not support 1: support 0: not support
upnp onvif ntp mediaPort http https	1: support schedule 0: not support 1: support 1: support 1: support 1: support
upnp onvif ntp mediaPort http https httpFlv p2p	1: support schedule 0: not support 1: support 0: not support
upnp onvif ntp mediaPort http https	1: support schedule 0: not support 1: support 1: support 1: support 1: support
upnp onvif ntp mediaPort http https httpFlv p2p	1: support schedule 0: not support 1: support

	1: support
pppoe	0: not support
FFF	1: support
Wifi	0: not support
••••	1: support
Push	0: not support
1 4311	1: support
pushSchedule	0: not support
pushisenedule	1: support
 Talk	0: not support
Talk	1: support
alarmHddErr	0: not support
didiffifiadelf	1: support
alarmHddFull	0: not support
didiffification	1: support
alarmDisconnet	0: not support
alambiscomet	1: support
alarmIpConflict	0: not support
didiffipconnec	1: support
ledControl	0: not support
ica control	1: support
disableAutoFocus	0: not support
alsasie (atol ocus	1: support
videoClip	1: cutout width and height cannot
Trace emp	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","SetCloudSc
	hedule","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	
4	1: support	
recOverWrite	0: not support	
	1: support	
recPackDuration	0: not support	
	1: support	
recPreRecord	0: not support	
	1: support	
recExtensionTimeList	0: not support	
TOUR THICKIST	1: support	
supportAudioAlarm	0: not support	
SupportAddioAldilli	o. not support	

	1: support
support Audio Alarm Enable	0: not support
	1: support
supportAudioAlarmSchedule	0: not support
	1: support
support Audio Alarm Task Enable	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
support Email Task Enable	0: not support
	1: support
support Ftp Enable	0: not support
	1: support
support Ftp Task Enable	0: not support
	1: support

# 3.1.2 GetDevInfo

## Interface Description

It is used to get device information.

## • Interface call instructions

#### Post Data

## • Return data description

```
Return data correctly
[
   "cmd": "GetDevInfo",
   "code": 0,
   "value" : {
    "DevInfo" : {
      "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": "0000000000000",
```

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

De succet LIDI	http://IDC ID/ani ani2anad CatDauNamaa0talian TOVEN
Request URL	http://IPC_IP/api.cgi?cmd=GetDevName&token=TOKEN

#### Post Data

# Return data description

```
Return data correctly
[
 {
  "cmd": "GetDevName",
  "code": 0,
  "value" : {
    "DevName" : {
      "name" : "NVR"
    }
  }
 }
]
Field description
                    description
Field
                    name of device
name
```

# 3.1.4 SetDevName

# Interface Description

It is used to set configuration of DevName.

#### Interface call instructions

Request URL http://IP	C IP/api.cgi?cmd=SetDevName&token=TOKEN
-----------------------	---

#### Post Data

# 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

```
| Comparison | Com
```

```
"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 clock1 is for 12 hour clock

# 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
I NEGUEST ONE	IIIID.//IFC IF/api.cgi; ciliu-3ct illicatorell-Torciv

#### Post Data

```
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
    }
}
```

#### Field description Field Description M/O See also GetTime Dst 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 0 startMon See also GetTime startSec See also GetTime 0 startWeek See also GetTime 0 startWeekday See also GetTime 0 See also GetTime year 0 mon See also GetTime 0 day See also GetTime 0 hour See also GetTime 0 See also GetTime min 0 sec See also GetTime 0 timeFmt See also GetTime 0 timeZone See also GetTime 0 hourFmt See also GetTime 0

# 3.1.7 GetAutoMaint

# Interface Description

It is used to get device automatic maintenance information.

#### Interface call instructions

The quest one Thicks I had been a second to the little of	Request URL	http://IPC IP/api.cgi?cmd=GetAutoMaint&token=TOKEN
---	-------------	--

#### Post Data

```
Data example

[
{
    "cmd":"GetAutoMaint",
    "action":1
}
]

Field description

Field Description

M/O
```

# Return data description

# 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 maintenance 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

Request URL	http://IPC IP/api.cgi?cmd=SetAutoMaint&token=TOKEN
nequest one	nttp://ii c_ii/api.cgi:ciiid=3ctAdtoWaint&tokcii=10kEN

#### Post Data

Field description

ricia acscription		
Field	Description	M/O
enable	See also GetAutoMaint	0
hour	See also GetAutoMaint	0
min	See also GetAutoMaint	0
sec	See also GetAutoMaint	0
weekDay	See also GetAutoMaint	О

# 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
Nequest ONL	IIIID.//IFC IF/api.cgi: ciliu-detiliuuliiloxtokeli-Tokeli

#### Post Data

```
]
  }
 }
]
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
                    Whether it is mounted or not
mount
size
                    The remaining capacity (Mb)
                    Type of storage
storageType
number
```

# 3.1.10 Format

# • Interface Description

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

#### Interface call instructions

	1 //20 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10/ 10
Request URL	http://IPC_IP/api.cgi?cmd=Format&token=TOKEN

#### Post Data

```
Data example

[{
    "cmd": "Format",
    "param": {
        "HddInfo": {
        "id": [0]
        }
    }

}]

Field description

M/O
```

id	Index of the hard disk or SD-Card that you want to	М
	format.	

# • Return data description

# **3.1.11** Upgrade

# • Interface Description

It is used to upgrade the firmware of the device. Must send cmd 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

Field description		
Field	Description	M/O
boundary	Delimiter	M
filename	The name of the update file	M
name	Bound to be "upgrade-package"	М

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

#### Post Data

```
}
}
Field description

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
```

#### Post Data

```
}
}
Field description

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
i iicquest oite	intepiji o nijapnograma opgrader repareatoken roken

#### Post Data

# **Field description**

Field	Description	M/O
restoreCfg	Whether to clear the configuration mark	М
fileName	The file name of the upgrade file	М

# Return data description

# 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=TOI	KEN
--	-----

#### POST Data

# • Return data description

```
Return data correctly
[
 {
   "cmd" : "GetAutoUpgrade",
   "code": 0,
   "initial" : {
    "AutoUpgrade" : {
      "enable" : 1
    }
   },
   "range" : {
    "AutoUpgrade" : {
      "enable" : "boolean"
    }
   },
   "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

# 3.1.17 CheckFirmware

#### Interface Description

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

#### Interface call instructions

equest URL	http://IPC IP/api.cgi?cmd= CheckFirmware&token=TOKEN

#### POST Data

# 3.1.18 UpgradeOnline

# • Interface Description

It is used to start online upgrade when check for a new version

#### Interface call instructions

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

#### POST Data

Field	description
rspCode	Response code

# 3.1.19 UpgradeStatus

# Interface Description

It is used to Check file download progress during online upgrade

#### Interface call instructions

Doguest LIDI	http://IPC_IP/api.cgi?cmd=UpgradeStatus&token=TOKEN
Request URL	IIIID.//IPC   IP/aDI.CgI!CIIIU=ODgIaUESIaIUS&IOKEII=IOKEN

#### 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 set configuration of channelstatus.

#### Interface call instructions

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

#### Post Data

```
"count": 16,
"status" : [
 {
   "channel": 0,
   "name": "E1 X",
   "online": 1,
  "typeInfo": "E1 X"
 },
   "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	Information 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
-------------	---------------------------------

#### POST Data

```
Data example
[
  "cmd":"Login",
  "param":{
  "User":{
    "userName":"admin",
    "password":""
  }
 }
}
Field description
Field
               Description
                                                                   M/O
               Account name, limit 1~31 characters.
                                                                   Μ
userName
                                                                   0
password
               Account password, limit 1~31 characters.
```

```
Return data correctly
[
   "cmd": "Login",
   "code": 0,
   "value" : {
    "Token" : {
      "leaseTime": 3600,
      "name": "031465962723"
    }
 }
Field description
Field
                     description
leaseTime
                     Lease time by second.
                     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
Nequest ONL	IIIID.//IFC IF/api.cgi: ciliu-logout&tokeli-Tokliv

#### POST Data

# 3.2.3 GetUser

# • Interface Description

It is used to get all users' information.

#### Interface call instructions

Request URL http://IPC\_IP/api.cgi?cmd=GetUser&token=TOKEN

#### POST Data

```
"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
-------------	---

#### POST Data

```
Data example
   "cmd":"AddUser",
    "param":{
      "User":{
        "userName":"GuestUser",
       "password":"123456",
        "level":"guest"
     }
   }
 }
Field description
Field
               Description
                                                                 M/O
userName
               Account name.
                                                                 Μ
                                                                 Μ
password
               Account password.
level
              User competence
                                                                 Μ
Note: Can add up to 20 users
```

# 3.2.5 DelUser

# • Interface Description

It is used to delete configuration of user.

### Interface call instructions

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

## POST Data

]	
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

Μ

# • Return data description

Account password.

password

```
Return data correctly

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

Field description

Field description

Response code
```

# 3.2.7 GetOnline

# • Interface Description

It is used to get all online users' information.

## Interface call instructions

Request URL	http://IPC IP/api.cgi?cmd=GetOnline&token=TOKEN
nequest onl	Hittp://TPC TP/apt.cgr:cittu=GetOffille&tokeff=TOKEN

```
"ip":"192.168.2.166",
    "level":"admin",
    "sessionId":1000,
    "userName":"admin"
    },
    ... // There may be multiple online users.
]
}
}

Field description
```

Field description

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

# 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
-------------	--

```
"sessionId":1001

}

}

Field description

Field Description

M/O

userName The online user's login account.

MesessionId The session ID which System assigned to the online user.
```

# 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

```
Return data correctly
[
   "cmd": "GetLocalLink",
   "code": 0,
   "initial" : {
    "LocalLink" : {
      "activeLink": "LAN",
      "dns": {
       "auto": 1,
       "dns1": "192.168.0.1",
       "dns2" : "192.168.0.1"
      },
      "mac": "EC:71:DB:36:8E:C7",
      "static": {
       "gateway": "192.168.0.1",
        "ip": "192.168.0.100",
        "mask" : "255.255.255.0"
      "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 distributing way, [DHCP, Static]
static->ip	Ip address
static->gateway	Gateway address
static->mask	Subnet mask
dns->auto	Whether auto get DNS 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=TOI	KEN
--	-----

```
Data example

[
    "cmd":"SetLocalLink",
    "action":0,
    "param":{
        "LocalLink":{
        "type":"Static",
        "static":{
        "ip":"192.168.2.122",
        "mask":"255.255.255.0",
        "gateway":"192.168.2.1"
        },
```

```
"dns":{
          "auto":0,
          "dns1":"202.96.128.166",
          "dns2":"202.96.134.133"
      }
    }
  }
Field description
                                                                    M/O
Field
                 Description
                 Network IP's distributing way, [DHCP, Static]
                                                                    0
type
                                                                    0
static->ip
                 Ip address
static->gateway
                 Gateway address
                                                                    0
                                                                    0
static->mask
                 Subnet mask
                 Whether auto get DNS or not [0, 1]
                                                                    0
dns->auto
```

0

0

Preferred DNS Server.

Alternate DNS server.

# Return data description

dns->dns1

dns->dns2

# 3.3.3 GetDdns

## • Interface Description

It is used to get configuration of Ddns

### Interface call instructions

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

#### POST Data

```
"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

Doguest LIDI	http://IDC_ID/ani.cgi2cmd_CatDdnc0talcan_TOKEN
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=TOKEN
-------------	--

```
| Data example | [ | { | "cmd":"GetEmail", | "action":1 | } | ] | | Field description | | M/O
```

# 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": "*****",
     "schedule" : {
       "enable" : 1,
       "table":
```

```
"smtpPort": 465,
  "smtpServer": "smtp.gmail.com",
  "ssl": 1,
  "userName": "***@sz-bcs.com.cn"
  }
 }
]
```

Field description	
Field	
cmtnSarvar	

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	Receiver address1, at most 127 characters.
addr2	Receiver address2, at most 127 characters.
addr3	Receiver 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

```
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	on	
Field	Description	M/O
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	Receiver address1,at most 127 characters.	0
addr2	Receiver address2,at most 127 characters.	0
addr3	Receiver address3,at most 127 characters.	0
schedule-	Whether email receive the alarm information [0, 1]	0
>enable		
schedule-	The schedule about when email receives the alarm	0
>table	information	
Note: This command supports model E2V only		

Note: This command supports model 52X only

# Return data description

# **3.3.7 GetEmailV20**

# Interface Description

It is used to get configuration of Email.

## Interface call instructions

#### POST Data

```
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	Receiver address1, at most 127 characters.
addr2	Receiver address2, at most 127 characters.
addr3	Receiver 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
INCQUEST ONE	intep.//ii C in/api.cgi: cina-3ctEmanv20&tokcii-10kEiv

```
Data example
[{
    "cmd": "SetEmailV20",
    "param": {
        "Email": {
            "ssl": 0,
            "smtpPort": 25,
            "smtpServer": "smtp.exmail.qq.com",
            "userName": "xxx@sz-bcs.com.cn",
            "nickName": "",
            "addr1": "xxx@sz-bcs.com.cn",
            "addr2": "xxx@sz-bcs.com.cn",
            "addr3": "xxx@sz-bcs.com.cn",
            "interval": "5 Minutes"
        }
    }
Field description
Field
                Description
                                                                      M/O
```

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
nickName		0
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	Receiver address1,at most 127 characters.	0
addr2	Receiver address2,at most 127 characters.	0
addr3	Receiver address3,at most 127 characters.	0
schedule-	Start using schedule	0
>enable		
schedule-	Table of Alarmtype	0
>table		

```
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

		- 1
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",
            "ssl": 1,
            "userName": "*******@qq.com"
        }
   }
```

Field description

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	Receiver address1, at most 127 characters.	0
addr2	Receiver address2, at most 127 characters.	0

addr3	Receiver address3, at most 127 characters.	0
nickName	Corresponds to the user name	0
Note: At least one of the three addresses (addr1,addr2,addr3) is completed.		

```
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
```

```
}

Field description

Field Description M/O
```

```
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		
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		

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":{
        "server": "pool.ftp.org",
        "port":21,
        "anonymous":0,
        "userName":"name",
        "password": "password",
        "remoteDir":"Dir",
        "maxSize":20,
        "streamType":0,
        "interval":30,
        "schedule":{
          "enable":1,
          "table":"1111111111111"
      }
    }
  }
Field description
```

Field	Description	M/O	
server	FTP server, can fill in the IP address or domain name.	0	
port	Port of FTP Server.	0	
anonymous	Whether anonymous or not	0	
userName	FTP account name. When the value of anonymous is	0	
(Depend on	0, 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.	0	
maxSize	Maximum size of FTP file.	0	
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-	Whether ftp receive the alarm information [0, 1]	0	
>enable			
schedule-	The schedule about when ftp receives the alarm	0	
>table	information		
Note:			
When scheduleVersion ver=1 in the capability set, use cmd "SetFtpV20"			

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
I NEGUEST ONE	IIIID.//IFC IF/api.cgi; ciliu-deti tpv20&tokeli-TOKLIV

## POST Data

```
"enable": 0,
  "interval": 30,
  "maxSize": 100,
  "mode" : 0,
  "password": "",
  "port": 21,
  "remoteDir": "",
  "schedule" : {
  "channel": 0,
  "table": {
//NVR
     "AI PEOPLE":
//NVR
     "AI VEHICLE":
"MD":
"TIMING":
}
  },
  "server" : "",
  "streamType": 0,
  "userName": ""
 }
 "range" : {
 "Ftp":{
  "anonymous": "boolean",
  "autoDir": "boolean",
  "enable": "boolean",
  "interval": [15, 30, 60, 300, 600, 1800],
  "maxSize": {
  "max": 1024,
  "min": 10
```

```
"mode" : {
 "max" : 2,
 "min": 0
},
"password" : {
 "maxLen" : 127
},
"port" : {
 "max" : 65535,
 "min" : 1
},
"remoteDir" : {
 "maxLen" : 255
},
"schedule" : {
 "channel": 0,
 "table" : {
  "AI_PEOPLE":{ //NVR
    "table" : {
      "maxLen": 168,
      "minLen": 168
    }
   },
   "AI_VEHICLE":{ //NVR
    "table" : {
      "maxLen": 168,
      "minLen" : 168
    }
   },
   "MD" : {
    "table" : {
      "maxLen": 168,
     "minLen" : 168
    }
   },
   "TIMING" : {
    "table" : {
      "maxLen": 168,
      "minLen" : 168
    }
   }
 }
```

```
"server" : {
  "maxLen": 127
 "streamType" : {
  "max": 2,
  "min": 0
 "userName" : {
  "maxLen": 127
 }
 }
"value" : {
 "Ftp" : {
 "anonymous": 0,
 "autoDir": 1,
 "enable": 0,
 "interval": 30,
 "maxSize": 20,
 "mode": 0,
 "password": "password",
 "port": 21,
 "remoteDir": "Dir",
 "schedule" : {
  "channel": 0,
  "table" : {
    "AI PEOPLE":
 //NVR
"AI VEHICLE":
"MD":
"TIMING":
```

```
},
    "server" : "pool.ftp.org",
    "streamType" : 0,
    "userName" : "name"
    }
    }
}
```

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		

# 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",
 "param": {
   "Ftp": {
     "anonymous": 0,
  "autoDir": 1,
  "enable": 0,
  "interval": 30,
  "maxSize": 100,
  "mode": 0,
  "password":"",
  "port": 21,
  "remoteDir": "",
  "schedule" : {
   "channel": 0,
   "table" : {
    "MD":
"TIMING":
}
  },
  "server": "",
  "streamType": 0,
  "userName": ""
  }
 }
}
Field description
Field
       Description
                                M/O
```

server	FTP server, can fill in the IP address or domain name.	0
port	Port of FTP Server.	0
anonymous	Whether to be anonymous or not	0
userName	FTP account name. When the value of anonymous is	0
(Depend on	0, 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.	0
maxSize	Maximum size of FTP file.	0
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-	Whether Start using schedule or not	0
>enable		
schedule-	Table of Alarm type	0
>table		
mode	Transport mode	

## 3.3.14 TestFtp

### Interface Description

It is used to set configuration of TestFtp.

#### Interface call instructions

Poguest LIPI	http://IDC_ID/ani.cgi2cmd=ToctEtn&tokon=TOVEN
Request URL	http://IPC IP/api.cgi?cmd=TestFtp&token=TOKEN

#### POST Data

```
Data example

[{
      "cmd": "TestFtp",
      "param": {
            "anonymous": 1,
            "mode": 0,
            "password": "test",
            "port": 21,
            "remoteDir": "523",
            "server": "192.168.2.101",
            "userName": "ftp_test"

            }
        }
     }
}
```

#### Field description

Field	Description	M/O
server	FTP server, can fill in the IP address or domain name.	M
	At most 127 characters.	
port	Port of FTP Server ,Limit 1~65535.	M

anonymous	Whether anonymous or not	М
userName	FTP account name. FTP account password. FTP	0
(Depend on	account name. When the value of anonymous is 0, the	
anonymous)	userName field is necessary.	
Password	FTP account password. FTP account password. FTP	0
(Depend on	account name. When the value of anonymous is 0, the	
anonymous)	password field is necessary.	
remoteDir	FTP root directory.	М
mode	Transport type	

### Return data description

## 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 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
}
}

}

Ntp": {
    "enable": 0,
    "interval": 1440,
    "port": 123,
    "server": "pool.ntp.org"
}

}

}
```

Field description

ricia acscription	
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=SetN	Ntp&token=TOKEN
--	-----------------

```
Data example
[
{
    "cmd":"SetNtp",
```

```
"param":{
      "Ntp":{
        "enable":1,
        "server": "pool.ntp.org",
        "port":123,
        "interval":1440
      }
    }
  }
Field description
                                                                        M/O
Field
                Description
enable
                NTP switch, The value of 1 represents the open, and
                                                                        0
                the 0 is the opposite.
                NTP server, can fill in the IP address or domain name.
                                                                        0
server
                Port of NTP Server.
                                                                        0
port
                Time synchronization interval. Limit 10~65535, and 0
interval
                                                                        0
                on behalf of the immediate synchronization.
```

### 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

#### POST Data

```
Return data correctly

[
    "cmd" : "GetNetPort",
    "code" : 0,
    "initial" : {
        "NetPort" : {
            "httpPort" : 80,
            "httpsPort" : 443,
            "mediaPort" : 9000,
            "onvifPort" : 8000,
            "rtmpPort" : 1935,
            "rtspPort" : 554
        }
```

```
"range" : {
    "NetPort" : {
      "httpPort" : {
       "max": 65535,
       "min" : 1
      },
      "httpsPort" : {
       "max" : 65535,
       "min":1
      },
      "mediaPort" : {
       "max": 65535,
       "min":1
      },
      "onvifPort" : {
        "max": 65535,
        "min" : 1
      },
      "rtmpPort" : {
        "max": 65535,
        "min":1
      },
      "rtspPort" : {
        "max": 65535,
        "min":1
      }
    }
   },
   "value" : {
    "NetPort" : {
      "httpPort": 80,
      "httpsPort": 443,
      "mediaPort": 9000,
      "onvifPort": 8000,
      "rtmpPort": 1935,
      "rtspPort": 554
    }
   }
 }
]
```

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.

## 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
Request ORL	http://iPC_iP/api.cgi?cmd=SetNetPort&token=TOKEN

#### POST Data

httpPort

Port of http.

```
Data example
[
    "cmd":"SetNetPort",
    "param":{
      "NetPort":{
        "httpPort":80,
        "httpsPort":445,
        "mediaPort":9000,
        "onvifPort":8000,
        "rtmpPort" : 1935,
        "rtspPort":555
    }
  }
Field description
Field
               Description
                                                                      M/O
```

httpsPort	Port of https.	0
mediaPort	Port of media.	0
onvifPort	Port of onvif.	0
rtspPort	Port of rtsp.	0
rtmpPort	Port of rtmp.	0

### Return data description

## **3.3.19 GetUpnp**

### Interface Description

It is used to get configuration of Upnp.

### Interface call instructions

Poguest LIDI	http://IDC_ID/ani.cgi2cmd_CatUnna@takan_TOVEN
Request URL	http://IPC_IP/api.cgi?cmd=GetUpnp&token=TOKEN

```
Data example
[
{
```

```
"cmd":"GetUpnp",
  "action":1
 }
Field description
Field
             Description
                                                           M/O
```

```
Return data correctly
[
 {
   "cmd" : "GetUpnp",
   "code": 0,
   "initial" : {
    "Upnp" : {
     "enable" : 0
    }
   },
   "range" : {
    "Upnp" : {
     "enable" : "boolean"
    }
   },
   "value" : {
    "Upnp" : {
      "enable" : 0
    }
   }
 }
]
Field description
```

Field	description
enable	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

#### POST Data

```
Data example
[
    "cmd": "SetUpnp",
    "param":{
      "Upnp":{
        "enable":1
    }
 }
Field description
                                                                      M/O
Field
                Description
                Upnp switch, The value of 1 represents the open, and
enable
                                                                      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

I I	
Request URL htt	tp://IPC IP/api.cgi?cmd=GetWifi&token=TOKEN

#### POST Data

```
"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
Request ORL	Hittp://IPC IP/api.cgifciliu=Setwill&tokell=TOKEN

```
Data example
[
    "cmd":"SetWifi",
    "param":{
      "Wifi":{
        "ssid":"ssid",
        "password":"000000"
      }
    }
  }
Field description
Field
               Description
                                                                     M/O
               The name of the wireless network
ssid
                                                                     0
               The password of the wireless network
password
                                                                     0
```

### • Return data description

#### 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
-------------	--

#### POST Data

```
Data example
[
    "cmd":"TestWifi",
    "param":{
      "Wifi":{
        "ssid":"ssid",
        "password":"password"
      }
    }
  }
Field description
Field
               Description
                                                                     M/O
               The name of the wireless network
ssid
                                                                     Μ
                                                                     0
               The password of the wireless network
password
```

```
Return data correctly

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

Field description

Field description

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

```
... // There may be multiple wireless networks.
   }
 }
]
Field description
Field
                      description
                      Wireless signal strength
signal
                      (1 : signal <= -60)
                      (2 : signal <= -50)
                      (3 : signal <= -40)
                      (4 : signal > -40)
                      The name of wireless network
ssid
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
I NEGUEST ONE	IILLD.//II C II/api.cgi; ciiid=dctwiiisigiiai&tokcii=Tokciv

#### POST Data

```
| Cata example | Catalog |
```

```
Return data correctly
[
 {
   "cmd": "GetWifiSignal",
   "code": 0,
   "initial" : {
    "wifiSignal": 100
   "range" : {
    "wifiSignal" : {
      "max" : 255,
      "min":0
    }
   "value" : {
     "wifiSignal": 100
   }
 }
]
Field description
Field
                      description
wifiSignal
```

### 3.3.26 GetPush

### Interface Description

It is used to get configuration of Push.

#### Interface call instructions

	Lu line in Lucia Louis Louis Tourn
Request URL	http://IPC_IP/api.cgi?cmd=GetPush&token=TOKEN

#### POST Data

```
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,
  "table" :
}
 }
}
}
]
```

Field description

i icia acscription	
Field	description
schedule->enable	Whether push the alarm information
schedule->table	The schedule about when push the alarm information
Noto	

When scheduleVersion ver=1 in the capability set, use cmd "GetPushV20"

### 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	
---	--

```
Data example
   "cmd":"SetPush",
```

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

### 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":
//NVR
     "AI VEHICLE":
"MD":
}
  }
 }
 },
 "range" : {
 "Push" : {
  "enable": "boolean",
  "schedule" : {
  "channel": 0,
  "table" : {
 //NVR
     "AI PEOPLE":{
   "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
//NVR
   "AI VEHICLE":
"MD":
111111111111111111111111111111111111100"
 }
 }
 }
}
Field description
```

	1
Field	description
schedule->enable	Schedule switch
schedule->table	Schedule table

### 3.3.29 SetPushV20

#### Interface Description

It is used to set configuration of Push.

#### Interface call instructions

#### POST Data

```
Data example
[{
  "cmd": "SetPushV20",
  "param": {
     "Push": {
       "enable": 1,
       "schedule": {
          "channel": 0,
          "table": {
            "MD":
111111111111111111111111111111111111100"
          }
       }
     }
  }
Field description
          Description
Field
                                           M/O
         Schedule switch
schedule-
                                           0
>enable
schedule-
         Schedule table
                                           0
```

### • Return data description

>table

]	
Field description	
Field	description
rspCode	Response code

## 3.3.30 GetP2p

### • Interface Description

Get P2p information

#### Interface call instructions

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

M

### Return data description

```
Return data correctly
[
    "cmd": "GetP2p",
    "code": 0,
    "initial": {
      "P2p": {
        "enable": 1
      }
    },
    "range": {
      "P2p": {
        "enable": "boolean"
      }
    },
    "value": {
      "P2p": {
        "enable": 1,
        "uid": "95270000SXIPOGIJ"
      }
    }
  }
Field description
Field
                     description
                     Whether enable p2p or not
enable
uid
                     IPC uid
```

# 3.3.31 SetP2p

### • Interface Description

SetP2P

#### Interface call instructions

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

#### POST Data

## 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

```
},
  "value" : {
    "Norm" : "NTSC"
  }
 }
 }
 Field description
Field description
Norm Norm of video
```

### 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
-------------	---

#### POST Data

## 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 description

### 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": {

"lmage": {

"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	1
INCQUEST ONE	Interpretation   Inte	- 1

Data example	

```
"cmd":"SetImage",
    "param":{
      "Image":{
        "channel":0,
        "bright":150,
        "contrast":150,
        "saturation":150,
        "hue":150,
        "sharpen":150
      }
    }
  }
Field description
Field
               Description
                                                                     M/O
               IPC channel number.
channel
                                                                     Μ
bright
                Bright of video.
                                                                     Μ
contrast
                Contrast of video.
                                                                     Μ
               Saturation of video.
saturation
                                                                     M
               Hue of video.
hue
                                                                     Μ
               Sharpen of video.
sharpen
                                                                     M
```

### 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
-------------	--

#### POST Data

```
"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

#### POST Data

```
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
                      IPC channel number.
channel
                                                                     M
osdChannel->enable
                      Camera name display switch.
                                                                     M
osdChannel->name
                      Camera name
                                                                     M
```

## • Return data description

osdChannel->pos

osdTime->enable

osdTime->pos

Camera name display position.

Camera time display switch.

Camera time display position.

M M

Μ

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

Field description
Field description
rspCode Response code
```

# **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" : {
     "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"
    }
   },
   "range" : {
     "lsp" : {
      "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", "LowNoise", "Anti-Smearing", "Manual" ]
gain	When the value of exposure is LowNoise 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	Enable or disable 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

#### POST Data

```
Data example
[
    "cmd":"SetIsp",
    "action":1,
    "param":{
      "lsp":{
         "channel":0,
        "antiFlicker":"Off",
         "backLight":"Off",
         "blc":128,
         "blueGain":128,
         "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"
```

```
}
1
Field description
Field
                Description
                                                                       M/O
channel
                IPC channel number.
                                                                       M
antiFlicker
                Flicker prevention,[ "Outdoor", "50HZ", "60HZ",
                                                                       M
                "Off" 1
                Exposure mode,
                                                                       M
exposure
                ["Auto", "LowNoise", "Anti-Smearing", "Manual"]
                When the value of exposure is LowNoise or Manual,
                                                                       M
gain
(Depend on
                the gain field is effective.
exposure)
shutter
                When the value of exposure is Anti-Smearing or
                                                                       M
                Manual, the shutter field is effective.
(Depend on
exposure)
whiteBalance
                White Balance, [ "Auto", "Manual" ]
                                                                       Μ
                When the value of whiteBalance is Anti-Smearing or
blueGain
                                                                       M
                Manual, the blueGain field is effective.
(Depend on
whiteBalance)
redGain
                When the value of whiteBalance is Anti-Smearing or
                                                                       Μ
(Depend on
                Manual, the redGain field is effective.
whiteBalance)
                Day&Night,[ "Auto", "Color", "Black&White" ]
dayNight
                                                                       M
backLight
                Backlight compensation,
                                                                       Μ
                [ "Off", "BackLightControl", "DynamicRangeControl" ]
                When the value of backLight is BackLightControl, the
Blc
                                                                       M
(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
                Enable or disable nr3d
                                                                       M
mirroring
                Video mirroring.
                                                                       M
rotation
                Video rotation.
                                                                       M
```

Return data correctly

## 3.4.9 GetMask

## • Interface Description

It is used to get configuration of Mask.

Description

IPC channel number

#### Interface call instructions

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

#### POST Data

Field

channel

M/O

Μ

# Return data correctly

```
[
 {
   "cmd": "GetMask",
   "code": 0,
   "initial" : {
     "Mask" : {
      "area" : [
        {
         "block" : {
           "height": 0,
           "width" : 0,
           "x":0,
           "y":0
          },
          "screen" : {
          "height" : 0,
           "width" : 0
         }
        }
      "channel": 0,
      "enable": 0
     }
   },
   "range" : {
    "Mask" : {
      "channel" : 0,
      "enable" : "boolean",
      "maxAreas": 4
    }
   },
   "value" : {
     "Mask" : {
      "area" : [
         "block" : {
```

Field description

Tield 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.	M
enable	Video mask switch.	M
block->height	Block height.	M
block->width	Block width.	M
block->x	Left upper X axis coordinates	M
block->y	Left upper Y axis coordinates	M
screen->height	Screen height.	М
screen->width	Screen width.	M

}	
]	
Field description	
Field	description
rspCode	Response code

## **3.4.11 Preview**

## • Interface Description

discard

#### Interface call instructions

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

#### POST Data

```
Data example
[{
    "cmd": "Preview",
    "action": 0,
    "param": {
       "Preview": {
            "channel": 0,
            "enable": 0,
            "type": "main"
        }
   }
Field description
Field
            Description
                                                                     M/O
            Index of channel
channel
                                                                     Μ
enable
            Preview switch
            Type of code stream
type
```

```
Return data correctly

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

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

```
Data example

[{
    "cmd": "GetCrop",
    "action": 0, //NVR
    "param": { //NVR
        "channel": 0 //NVR
    }

}]

Field description

M/O
```

# 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** 

rielu description	I .
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

```
Data example

[{
    "cmd": "SetCrop",
    "action": 0,
    "param": {
```

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

# 3.5 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
INCQUEST ONE	Interigration of the process of the contraction o

#### POST Data

# Return data correctly

```
[
   "cmd": "GetEnc",
   "code": 0,
   "initial" : {
     "Enc" : {
      "audio": 1,
      "channel": 0,
      "mainStream": {
        "bitRate": 4096,
        "frameRate": 20,
        "height": 1920,
        "profile": "High",
        "resolution": 54,
        "size": "2560*1920",
        "width": 2560
      },
      "subStream": {
        "bitRate" : 256,
        "frameRate": 10,
        "height": 480,
        "profile": "High",
        "size": "640*480",
        "width": 640
      }
    }
   },
   "range" : {
     "Enc" : [
        "audio": "boolean",
        "chnBit": 1,
        "mainStream" : {
          "bitRate": [ 1024, 1536, 2048, 3072, 4096, 5120, 6144, 7168, 8192 ],
          "default": {
           "bitRate": 4096,
           "frameRate": 20
          },
          "frameRate": [25, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2],
          "height": 1920,
          "profile": ["Base", "Main", "High"],
```

```
"resolution": 54,
   "size": "2560*1920",
   "width": 2560
 },
  "subStream" : {
   "bitRate": [64, 128, 160, 192, 256, 384, 512],
   "default" : {
    "bitRate" : 256,
    "frameRate": 10
   },
   "frameRate": [15, 10, 7, 4],
   "height": 480,
   "profile": ["Base", "Main", "High"],
   "resolution": 28,
   "size": "640*480",
   "width": 640
 }
},
 "audio": "boolean",
 "chnBit": 1,
  "mainStream" : {
   "bitRate": [ 1024, 1536, 2048, 3072, 4096, 5120, 6144, 7168, 8192 ],
   "default" : {
    "bitRate": 4096,
    "frameRate": 20
   },
   "frameRate": [25, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2],
   "height": 1440,
   "profile": ["Base", "Main", "High"],
   "resolution": 41,
   "size": "2560*1440",
   "width": 2560
 },
 "subStream": {
   "bitRate": [64, 128, 160, 192, 256, 384, 512],
   "default" : {
    "bitRate": 256,
    "frameRate": 10
   },
   "frameRate": [15, 10, 7, 4],
   "height": 480,
   "profile": ["Base", "Main", "High"],
```

```
"resolution": 28,
   "size": "640*480",
   "width": 640
 }
},
 "audio": "boolean",
 "chnBit": 1,
 "mainStream": {
   "bitRate": [ 1024, 1536, 2048, 3072, 4096, 5120, 6144, 7168, 8192 ],
   "default" : {
     "bitRate": 4096,
     "frameRate": 20
   },
   "frameRate": [25, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2],
   "height": 1536,
   "profile": ["Base", "Main", "High"],
   "resolution": 32,
   "size": "2048*1536",
   "width": 2048
 },
 "subStream": {
   "bitRate": [64, 128, 160, 192, 256, 384, 512],
   "default" : {
     "bitRate": 256,
     "frameRate": 10
   },
   "frameRate": [15, 10, 7, 4],
   "height": 480,
   "profile": ["Base", "Main", "High"],
   "resolution": 28,
   "size": "640*480",
   "width": 640
 }
},
 "audio": "boolean",
 "chnBit": 1,
 "mainStream" : {
   "bitRate": [1024, 1536, 2048, 3072, 4096, 5120, 6144, 7168, 8192],
   "default": {
     "bitRate": 4096,
     "frameRate": 20
```

```
"frameRate": [ 25, 22, 20, 18, 16, 15, 12, 10, 8, 6, 4, 2 ],
      "height": 1296,
      "profile": ["Base", "Main", "High"],
      "resolution": 34,
      "size": "2304*1296",
      "width": 2304
     },
     "subStream": {
      "bitRate": [64, 128, 160, 192, 256, 384, 512],
      "default" : {
        "bitRate": 256,
        "frameRate": 10
      },
      "frameRate" : [ 15, 10, 7, 4 ],
      "height": 480,
      "profile": ["Base", "Main", "High"],
      "resolution": 28,
      "size": "640*480",
      "width": 640
     }
   }
 ]
},
"value" : {
 "Enc": {
   "audio": 0,
   "channel": 0,
   "mainStream": {
     "bitRate": 4096,
     "frameRate": 20,
     "height": 1920,
     "profile": "High",
     "resolution": 54,
     "size": "2560*1920",
     "width": 2560
   },
   "subStream" : {
     "bitRate": 256,
     "frameRate": 10,
     "height": 480,
     "profile": "High",
     "resolution": 28,
```

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")	
subStream->height	Height of subStream	
	(This item is internal use only, and no needed for cmd	
	"SetEnc")	
subStream->resolution	Resolution enumerate of subStream	
	(This item is internal use only, and no needed for cmd	
	"SetEnc")	
subStream->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.	М
audio	Audio switch.	М
mainStream->bitRate	Bit rate of main stream.	М

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.	М
subStream->profile	H.264 Profile.	М
subStream->size	Resolution.	М

# 3.6 Record

# **3.6.1 GetRec**

# Interface Description

It is used to get configuration of record.

#### Interface call instructions

#### **Post Data**

```
Data example
    "cmd":"GetRec",
  "action":1,
  "param":{
   "channel":0
}
Field description
Field
               Description
                                                                    M/O
channel
               Index of channel
                                                                        M
```

```
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	
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 command 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		
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"		

# 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=T	TOKEN
---	-------

#### Post Data

```
| Cartion | Cart
```

```
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
"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" : {
  //NVR
       "AI PEOPLE":
```

```
//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

```
Data example
 "cmd": "SetRecV20",
 "param": {
  "Rec": {
   "overwrite": 1,
   "postRec": "30 Seconds",
   "preRec": 1,
   "schedule": {
     "enable": 1,
     "channel": 0,
     "table": {
      "MD":
"TIMING":
}
   }
  }
 }
```

ricia acscription		
Field	Description	M/O
channel	See also GetRec	M
overwrite	See also GetRec	0
postRec	See also GetRec	0
preRec	See also GetRec	0
enable	See also GetRec	О
table	See also GetRec	0

## 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,
                 "day": 21,
                 "hour": 12,
                 "min": 34,
                 "sec": 1
            }
        }
    }
Field description
Field
                Description
                                                                          M/O
channel
                Channel number
                                                                              M
                The value 1 means it will only get the data of dates
onlyStatus
                                                                              Μ
                instead of requiring the details of the files. The value 0
                means it will get the details information of a certain
```

# 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

```
Return data correctly
[
 {
   "cmd": "Search",
   "code": 0,
   "value" : {
    "SearchResult": {
      "Status" : [
         "mon": 12,
         "table": "111100000000011110011110000000",
         "year" : 2020
        }
      ],
      "channel": 0
   }
 }
1
```

# 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.

```
"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_98ADFFF.mp4",
         "size": 160096255,
         "type": "main",
         "width": 0
       }
     ],
      "Status":[
         "mon": 12,
         "table": "00000000000000011111000000000",
         "year" : 2020
       }
     ],
      "channel": 0
    }
  }
```

]			
Field description	Field description		
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_121553_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	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\_2020-12-21\_RecM01\_20201221\_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

Paramet	er M/O	Description
channe	el M	Channel number

rs	М	Random character with fixed length. It's used to
		prevent browser caching.

Return data	correctly		
Content-Type:	mage/jpeg		
Content-Length	n: 171648		
Connection: ke	Connection: keep-alive		
X-Frame-Option	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

Request URL	http://192.168.1.238/cgi-bin/api.cgi?
	cmd=Playback&source=Mp4Record/2020-12-
	22/RecM01_20201222_075939_080140_6D28808_1A468F9.
	mp4&output=Mp4Record/2020-12-
	22/RecM01_20201222_075939_080140_6D28808_1A468F9.
	mp4&token=TOKEN

# Request parameter description

Parameter	M/O	Description
source	М	The name of the source file

output M	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\_20201222\_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

```
Data example
[{
    "cmd": "NvrDownload",
    "action": 1,
    "param": {
```

```
"NvrDownload": {
            "EndTime": {
                 "year": 2020,
                 "mon": 12,
                 "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
```

End time

EndTime

0

```
"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
fileSize	Size 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

# Field description

Field	Description	M/O
channel	The channel number.	М

```
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" : ""
},
 "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" : ""
},
 "channel": 0,
  "enable": 0,
 "id" : 8,
 "name" : ""
},
 "channel": 0,
  "enable": 0,
  "id" : 9,
  "name" : ""
},
  "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	
Field	description
enable	Preset switch, The value of 1 represents the open, and the 0
	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

# Field description

1101010101011		
Field	Description	M/O
channel	IPC channel number.	М
enable	1 means that is on, and 0 means it's off. If that field doesn't exist it means only the name of the preset can be revised.	0
id	ID number of preset. Range [1~64].	М
name	Name of preset, limit 1~31 characters.	М

# • Return data description

```
"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

# • Return data description

```
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,
          "speed" : 10
```

```
},
   {
     "dwellTime": 4,
     "id" : 2,
     "speed": 20
   }
 ],
 "running": 0
},
 "channel": 0,
 "enable" : 0,
 "id" : 2,
 "name" : "",
 "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
          },
            "dwellTime": 4,
           "id" : 2,
            "speed": 20
          }
        ],
        "running": 0
     ]
   }
 }
]
```

Field description	
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

### POST Data

```
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
           }
        ]
      }
```

# Field description

ricia acsoription		
Field	Description	M/O
channel	IPC channel number.	M
enable	Whether enable the preset or not	M
id	ID number of Patrol.	M
preset->dwellTime	Patrol time	M
preset->id	ID number of preset. Range [1~64].	M
preset->speed	Patrol speed	M

Note: Support up to 16 preset.

## Return data description

# 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
I INCHUCSE OIL	IIIIp.//II C II/api.cgi; cilia-i tzcti ixtokcii-i oken

#### POST Data

```
"speed":32
}
},
{
    "cmd":"PtzCtrl",
    "param":{
        "channel":0,
        "op":"Stop"
}
},
{
    "cmd":"PtzCtrl",
    "param":{
        "channel":0,
        "op":"ToPos",
        "id":1,
        "speed":32
}
}
```

11014 400011941011		
Field	Description	M/O
channel	IPC channel number.	M
ор	Operation to control the PTZ.	M
id	Preset id number or Patrol id number.	0
speed	PTZ running speed.	0

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

Tiela description	
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

		ı
Request URL	http://IPC IP/api.cgi?cmd=GetPtzSerial&token=TOKEN	l

## POST Data

```
"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",
      "dataBit": "CS8",
      "flowCtrl": "none",
      "parity": "none",
      "stopBit": 1
     }
   }
 }
]
```

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	
--	--

## POST Data

```
Data example
    "cmd": "SetPtzSerial",
    "action": 0,
    "param": {
      "PtzSerial": {
         "channel": 0,
         "baudRate": 9600,
         "dataBit": "CS6",
         "stopBit": 2,
         "parity": "odd",
         "flowCtrl": "hard",
         "crtlProtocol": "PELCO_P",
         "ctrlAddr": 2
      }
    }
  }
```

Field description

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 description

# 3.7.8 GetPtzTattern

## Interface Description

GetPtzTattern.

## Interface call instructions

Request URL http://IPC\_IP/api.cgi?cmd=GetPtzTattern&token=TOKEN

#### POST Data

```
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
Field
                    description
channel
                    The channel number.
id
                    ID number of the track.
name
                    The name of the track
                    Track switch, The value 1 means that's enabled, and 0 means
enable
                    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
THE GUEST STREET	The piff is _ in full indication and seek that the indication is in a seek that the indication is indicated in a seek that the indication is indicated in a seek that the indication is indicated in a seek that the indication is indicated in a seek that the indicated

#### POST Data

Field	Description	M/O
channel	The channel number.	М
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,	0
	and 0 means the opposite	
running	Whether running or not	0

# 3.7.10 GetAutoFocus

## Interface Description

GetAutoFocus.

## Interface call instructions

Request URL	http://IPC IP/api.cgi?cmd=GetAutoFocus&token=TOKEN

## POST Data

```
"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 M
forbidding, 0 means enabling
```

## • Return data description

# 3.8 Alarm

## 3.8.1 GetAlarm

## Interface Description

It is used to get alarm setting.

## Interface call instructions

Post Data

```
Data example
  "cmd": "GetAlarm",
  "action":1,
  "param":{
  "Alarm":{
     "type":"md",
     "channel":0
  }
 }
}
Field description
Field
               Description
                                                                     M/O
               Index of channel
channel
                                                                         Μ
```

M

Alarm type , only support "md" now

## Return data description

type

```
},
  "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
I NEquest ONL	Interprese in a principle control of the control

## Post Data

```
Data example

[
{
    "cmd":"SetAlarm",
```

```
"param":{
"Alarm" : {
"channel": 0,
"scope":{
"cols": 80,
"rows": 60,
"table":
```

```
"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,
        "sensitivity": 10
      }
    ],
     "type" : "md"
}
```

	1.0.0.0.000.100.000			
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	М		
Note:				
When scheduleVersion ver=1 in the capability set, use cmd "SetMdAlarm"				

## Return data description

# 3.8.3 GetMdAlarm

# • Interface Description

It is used to get MdAlarm setting.

## Interface call instructions

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

#### Post Data

```
Data example

[{
    "cmd": "GetMdAlarm",
    "action": 1,
```

```
"param": {
    "channel": 0
}

Field description

Field Description
Channel Index of channel M
```

```
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
 }
 1,
 "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
     }
   1,
   "useNewSens": 1
},
"range" : {
 "MdAlarm" : {
   "channel": 0,
   "newSens" : {
     "sens" : [
      {
        "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": 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
}
1,
"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 //NVR
   }
 }
]
```

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.
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,
```

	Л	
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
priority	See also GetAlarm	

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

Field description

Field description
```

# 3.8.5 GetMdState

# Interface Description

It is used to get state of MD.

# Interface call instructions

		ı
Request URL	http://IPC IP/api.cgi?cmd=GetMdState&token=TOKEN	

#### POST Data

```
Data example
[
   "cmd":"GetMdState",
   "param":{
   "channel":0
  }
 }
Field description
Field
              Description
                                                                M/O
             Channel num (ipc is 0)
                                                                0
channel
Note: use this url no need to post json date "http://IPC_IP/api.cgi?
 cmd=GetMdState&channel=0&token=TOKEN"
```

```
Return data correctly
[
 {
   "cmd": "GetUpnp",
   "code": 0,
   "value" : {
    "state" : 1
   }
 }
Field description
Field
                     description
                     The state of motion detection. The value 1 means motions
state
                     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	M/O
Note:		
When schedule Version 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" :
```

# 3.8.7 SetAudioAlarm

# Interface Description

SetAudioAlarm.

#### Interface call instructions

Request URL http://IPC_IP/api.cgi?cmd=SetAudioAlarm&token=TO	(EN
--	-----

#### Post Data

# • Return data 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

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

```
}
  }
  "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":
```

#### 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 AudioAlarm

#### Interface call instructions

Request URL	http://IPC IP/api.cgi?cmd=SetAudioAlarmV20&token=TOKEN
nequest onl	IIIID.//IPC IP/api.cgi:ciiiu=3etAuuloAlaiiiiv20&tokeii=10keii

#### POST Data

```
Data example
[{
  "cmd": "SetAudioAlarmV20",
  "param": {
     "Audio": {
       "enable": 1,
       "schedule": {
          "channel": 0,
          "table": {
            "MD":
1111111111111111111111111111111111111100"
       }
     }
  }
Field description
          Description
                                           M/O
Field
         Schedule switch
schedule-
>enable
schedule-
         Schedule table
                                           0
>table
```

Field description	
Field	description
rspCode	Response code

# 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=TOKEN

#### POST Data

Return data correctly	

```
"cmd": "GetBuzzerAlarmV20",
 "code": 0,
 "initial": {
 "Buzzer" : {
  "diskErrorAlert": 0,
  "diskFullAlert": 0,
  "enable": 0,
  "ipConflictAlert": 0,
  "nvrDisconnectAlert": 0,
  "schedule" : {
  "channel": 0,
  "table" : {
   "AI PEOPLE":
"AI VEHICLE":
"MD":
"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":

#### "VL" :

```
}
}
}
}
}
```

#### Field description

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

# 3.8.11 SetBuzzerAlarmV20

# Interface Description

It is used to set configuration of BuzzerAlarm

# Interface call instructions

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

#### POST Data

```
Data example
[{
 "cmd": "SetBuzzerAlarmV20",
 "param": {
  "Buzzer": {
   "enable": 0,
   "schedule": {
    "channel": 0,
    "table": {
     "MD":
"TIMING":
}
  }
 }
```

# Field description

Field	Description	M/O
schedule-	Buzzer switch	0
>enable		
schedule-	Schedule table	0
>table		

# • Return data 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
Mcquest one	http://ii c_ii/api.cgi:cina=rtinp=start&token=roken

#### POST Data

```
Data example

[{
    "cmd": "rtmp=start",
    "param": {
```

```
"Preview": {
           "channel": 0,
           "enable": 1,
           "type": "main"
   }
Field description
           Description
Field
                                                                   M/O
channel
           Index of channel
                                                                   Μ
enable
           Switch to start rtmp
                                                                   Μ
type
           Type of code stream
                                                                   0
```

# • Return data description

# 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

```
Data example

[{
        "cmd": "rtmp=stop",
        "param": {
            "channel": 0,
            "enable": 1,
            "type": "main"
        }
    }

]

Field description

Field Description

M/O
```

# 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

```
Return data correctly

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

Field description

Field description

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
I DEGRESS OFF	IILLD.//IPC   IP/ADI.CRI!CIIIU-GELII LIRIILSQLOKEII-TOKEN

#### POST Data

```
"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_II	P/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 description

```
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

#### POST Data

```
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
I NEGUEST ONE	IIIID.//IFC IF/api.cgi; ciliu-Jeifowei Leuxiokeii- IOKLIN

#### POST Data

# Return data description

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
Nequest ONL	http://irc_ir/api.cgi:cinu-detwinteleuxtoken-roken

#### Post Data

```
| Caraction | Cara
```

```
Return data correctly
```

```
[
 {
   "cmd": "GetWhiteLed",
   "code": 0,
   "range" : {
    "WhiteLed": {
      "bright" : {
       "max" : 100,
       "min":0
      }
    }
   },
   "value" : {
     "WhiteLed": {
      "bright": 79,
      "channel": 0,
      "mode": 2,
      "state": 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": "GetWhiteLed",
    "param": {
        "state": 0,
        "channel": 0,
        "mode": 2,
        "bright": 79
   }
Field description
Field
               Description
                                                                    M/O
channel
               Index of channel
                                                                        Μ
state
               White led state
                                                                        0
               Brightness state
mode
                                                                        0
```

# • Return data description

bright

Current brightness

```
Return data correctly

[
{
    "cmd" : "GetWhiteLed",
```

```
"code": 0,
   "range" : {
    "WhiteLed" : {
      "bright" : {
       "max" : 100,
       "min" : 0
      }
    }
   },
   "value" : {
    "WhiteLed" : {
      "bright" : 79,
      "channel": 0,
      "mode" : 2,
      "state": 0
    }
   }
 }
]
Field description
```

description

Field

# 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
                                                     Parameters error
             param error
-5
                                                     Reached the max session
             max session
                                                     number.
-6
             please login first
                                                    Login required
-7
             login failed
                                                    Login error
-8
             timeout
                                                    Operation timeout
-9
             not support
                                                    Not supported
-10
                                                    Protocol error
             protocol
-11
             fcgi read failed
                                                    Failed to read operation
-12
             get config failed
                                                     Failed to get configuration.
                                                    Failed to set configuration.
-13
             set config failed
-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			
-22	limit	exceeds the limitation			
-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			
-100	test failed	Test EmailFtpWifi failed			
-101	check firmware failed	Upgrade checking firmware failed			
-102	download online failed	Upgrade download online failed			
-103	get upgrade status failed	Upgrade get upgrade status failed			
Note: Field "details" means more detailed error information.					