Foscam IPCamera CGI User Guide

Contents

History

Ver	Auth	Edit date	Changes
1.0.0	XiaoJinsheng	2012-11-21	V1.0.0
1.0.1	Houzhen	2012-12-09	Add the following CGI command to set PT startup position: 1) setPTZSelfTestMode 2) getPTZSelfTestMode 3) setPTZPrePointForSelfTest 4) getPTZPrePointForSelfTest
1.0.2	XiaoJinsheng	2013-01-29	1. Add a snap CGI(snapPicture2) which retrun jpeg image data directly but a image url 2. Add MotionJpeg stream support
1.0.3	Houzhen	2013-6-5	Check and Modify CGI command document
1.0.4	Limaike	2013-6-8	CGI command check
1.0.5	Houzhen	2013-9-25	1.Add note for GetMJStream, defects of Firefox; 2.Modify Command: setContrast、mirrorVideo、flipVideo、logIn、setSnapConfig 、 setPTZSpeed 、 setInfraLedConfig 、 setSubStreamFormat 、 setPortInfo、getPortInfo; 3.Add command: getLocalAlarmRecordConfig ; setLocalAlarmRecordConfig; getP2PEnable；setP2PEnable；getP2PPort；setP2PPort ； setOSDMask ； getOSDMask ； getScheduleSnapConfig ; setScheduleSnapConfig;

General description

- Our device can only support authentication by pass user name or password attached at CGI request string currentlly.
  For example:
  http://192.168.1.2/cgi-bin/CGIProxy.fcgi&usr=admin&pwd=123&cmd=ABC

- We only support GET and POST method. Only importConfig and fwUpgrade can support POST method.

- The cgi request string must be encode in url format. URL encode rule:
  The following chars will not be encoded:
  [A~Z] [a~z] [0~9] + @ * /
  The other chars will be encoded into hex format.
  For example:
  http://192.168.1.6:88/cgi-bin/CGIProxy.fcgi?usr=admin&pwd=&cmd=getIPInfo

  will be encode to:
  http://192.168.1.6:88/cgi-bin/CGIProxy.fcgi?usr%3Dadmin%26pwd%3D%26cmd%3DgetIPInfo

- cgi execute result
  1) We orgnize the cgi execute result as xml format, for example:
  <CGI_Result>
      <result>0</result>
      <isDHCP>1</isDHCP>
      <ip>192.168.1.8</ip>
      <gate>0.0.0.0</gate>
      <mask>255.255.255.0</mask>
      <dns1>0.0.0.0</dns1>
      <dns2>0.0.0.0</dns2>
  </CGI_Result>

  <result></result> means the common execute result

value	mean
0	Success
-1	CGI request string format error
-2	Username or password error
-3	Access deny
-4	CGI execute fail
-5	Timeout
-6	Reserve
-7	Unknown error
-8	Reserve

AV Function

getImageSetting

Function	Get color attribute of video	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getImageSetting	
Param	None	
Return	brightness	0~100
	contrast	0~100
	hue	0~100
	saturation	0~100
	sharpness	0~100
	denoiseLevel	Not use
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getImageSetting&usr=admin&pwd=	

setBrightness

Function	Set brightness of video	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setBrightness	
Param	brightness	0~100
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setBrightness&brightness=50&usr=admin& pwd=	

setContrast

Function	Set contrast of video	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setContrast	
Param	contrast	0~100
Return	None	
Note		

Example	/cgi-bin/CGIProxy.fcgi?cmd=setContrast&constrast=50&usr=admin&pwd=

setHue

Function	Set hue of video	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setHue	
Param	hue	0~100
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setHue&hue=50&usr=admin&pwd=	

setSaturation

Function	Set saturation of video	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setSaturation	
Param	saturation	0~100
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setSaturation&saturation=50&usr=admin&pwd=	

setSharpness

Function	Set sharpness of video	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setSharpness	
Param	sharpness	0~100
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setSharpness&sharpness=50&usr=admin&pwd=	

resetImageSetting

Function	Reset color parameters to default value
privilege	admin
Usage	/cgi-bin/CGIProxy.fcgi?cmd=resetImageSetting
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=resetImageSetting&usr=admin&pwd=

getMirrorAndFlipSetting

Function	Get mirror and flip attribute of video		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getMirrorAndFlipSetting		
Param	None		
Return	isMirror	0	Not mirred
		1	Mirred
	isFlip	0	Not filpped
		1	Flipped
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getMirrorAndFlipSetting&usr=admin&pwd=		

mirrorVideo

Function	Mirror video		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=mirrorVideo		
Param	isMirror	0	Not mirror
		1	Mirror
Return	None		
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=mirrorVideo&isMirror=1&usr=admin&pwd=		

flipVideo

Function	Flip video	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=flipVideo	
Param	isFlip	0 Not flip
		1 Flip
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=flipVideo&isFlip=1&usr=admin&pwd=	

setPwrFreq

Function	Set power freq of sensor	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setPwrFreq	
Param	freq	0 60HZ
		1 50HZ
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setPwrFreq&freq=0&usr=admin&pwd=	

getVideoStreamParam

Function	Get video stream param	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getVideoStreamParam	
Param	None	
Return	resolutionN	Resolution of stream type N
	bitRateN	Bit rate of stream type N (20480~2097152)
	frameRateN	Frame rate of stream type N
	GOPN	P frames between I frame of stream type N
	isVBRN	Not in use currentlly
Note	N means streamType [0~3]	
Example	/cgi-bin/CGIProxy.fcgi?cmd=getVideoStreamParam&usr=admin&pwd=	

setVideoStreamParam

Function	Set the video stream param of stream N	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setVideoStreamParam	
Param	streamType	0~3
	resolution	Resolution of stream type N
	bitRate	Bit rate of stream type N　(20480~2097152)
	frameRate	Frame rate of stream type N
	GOP	P frames between I frame of stream type N The suggest value is: X * frameRate
	isVBR	Not in use currentlly
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setVideoStreamParam&streamType=0&resolution=0&bitRate=2097152&frameRate=30&GOP=30&isVBR=0&usr=admin&pwd=	

getMainVideoStreamType

Function	Get the stream type of main stream	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getMainVideoStreamType	
Param	None	
Return	streamType	The stream type　0~3
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getMainVideoStreamType&usr=admin&pwd=	

getSubVideoStreamType

Function	Get the stream type of sub stream	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getSubVideoStreamType	

Param	None	
Return	streamType	The stream type 0~3
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getSubVideoStreamType&usr=admin&pwd=	

setMainVideoStreamType

Functio n	Set the stream type of main stream	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setMainVideoStreamType	
Param	streamType	The stream type 0~3
Return	None	
Note		
Exampl e	/cgi-bin/CGIProxy.fcgi?cmd=setMainVideoStreamType&streamType=0&usr=admin&pwd=	

setSubStreamFormat

Function	Set the stream format of sub stream		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setSubVideoStream 统一		
Param	format	0	H264
		1	MotionJpeg
Return	None		
Note	Our device can only support 2 streams:Main stream for PC access and Sub stream for mobile access, but someone need a MJ stream to embed their camera into a webpage, in this case, we should set sub stream format to Motion Jpeg, and then you can get MJ stream by command: /cgi-bin/CGIStream.cgi?cmd=GetMJStream, but when you login as a sub stream user, the stream data will be same as main stream.		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setSubStreamFormat&format=0&usr=admin&pwd=		

GetMJStream

Function	Get motion jpeg stream

privilege	visitor
Usage	/cgi-bin/CGIStream.cgi?cmd=GetMJStream
Param	None
Return	Motion jpeg stream data

Note	1) Motion jpeg stream data is returned from http server by a serverpush mode
	
	2) MJ stream is VGA resolution @ 15fps
	
	3) For some version of Firefox browse, the Firefox will crash when use "GetMJStream" CGI to get mjstream long time. This problem is due to the browse has some defects, it can not parse data correctly and directly. In order to fix this problem, we should as follows:
	
	A. Create a .txt empty document, such as "MJ.txt".
	
	B.Input the content into you .txt document, as follows:
	
	\<html\>
	  \<body\>
	    \<img src="http://192.168.1.102:99/cgi-bin/CGIStream.cgi?cmd=GetMJStream&usr=admin&pwd="/\>
	  \</body\>
	\</html\>
	
	Note: please change the ip\port\usr\pwd to youself;
	
	C. Rename your .txt to .html, such as "MJ.html".
	
	D. Open you r.html by Firefox, and enjoy your MJStream-video;

Example	/cgi-bin/CGIStream.cgi?cmd=GetMJStream&usr=admin&pwd=

getOSDSetting

Function	Get OSD config	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getOSDSetting	
Param	None	
Return	isEnableTimeStamp	Time stamp will display on screen or not
	isEnableDevName	Camera name will display on screen or not
	dispPos	OSD display position, currently can only be 0
	isEnableOSDMask	Is OSD mask effective
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getOSDSetting&usr=admin&pwd=	

setOSDSetting

Function	Set OSD config	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setOSDSetting	
Param	isEnableTimeStamp	Time stamp will display on screen or not
	isEnableDevName	Camera name will display on screen or not
	dispPos	OSD display position, currently can only be 0
	isEnableOSDMask	Is OSD mask effective
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setOSDSetting&isEnableTimeStamp=1&isEnable DevName=1&dispPos=0&isEnableOSDMask=0&usr=admin&pwd=	

getOsdMaskArea

Function	Get OSD mask area info	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getOsdMaskArea	
Param	None	
Return	x1_N	The top left X position of mask N
	y1_N	The top left Y position of mask N
	x2_N	The bottom right X position of mask N
	y2_N	The bottom right Y position of mask N
Note	Our device can only support 4 mask areas	
Example	/cgi-bin/CGIProxy.fcgi?cmd=getOsdMaskArea&usr=admin&pwd=	

setOsdMaskArea

Function	Set OSD mask area info	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setOsdMaskArea	
param	x1_N	The top left X position of mask N
	y1_N	The top left Y position of mask N
	x2_N	The bottom right X position of mask N
	y2_N	The bottom right Y position of mask N
Resturn	None	

Note	Our device can only support 4 mask areas
Example	/cgi-bin/CGIProxy.fcgi?cmd=setOsdMaskArea&x1_0=100&y1_0=100&x2_0=2 00&y2_0=200&x1_1=0&y1_1=0&x2_1=0&y2_1=0&x1_2=0&y1_2=0&x2_2=0 &y2_2=0&x1_3=0&y1_3=0&x2_3=0&y2_3=0&usr=admin&pwd=

getOSDMask

Function	Get OSD mask status	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getOSDMask	
Param	None	
Return	`isEnableOSDMask`	0-Disable, 1-Enable
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getOSDMask&usr=admin&pwd=	

setOSDMask

Function	Set OSD mask status	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setOSDMask	
Param	`isEnableOSDMask`	0-Disable, 1-Enable
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setOSDMask&isEnableOSDMask=1&usr=admin& pwd=	

getMotionDetectConfig

Function	Get motion detect config		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getMotionDetectConfig		
Param	None		
Return	isEnable	Is enable motion detect alarm	
	linkage	Motion alarm linkage (bit3 | bit2 | bit1 | bit0)	bit0:Ring
			bit1:Send mail
			bit2:Snap picture
			bit3:Record

	snapInterval	The interval time to snap picture again	
	sensitivity	Motion detect sensitivity	0 : Low
			1: Normal
			2: High
			3: Lower
			4: Lowest
	triggerInterval	The time of which motion detect alaram can trigger again when a motion detection has happened.	
	scheduleN	The motion alaram schedule of one week, N = 0(Monday) ~6(Sunday) For detail, see *1 bellow	
	areaN	The area info of row N For detail, see *2 bellow	
Note	·Video region is divided into 10*10 sub areasideo region is divided into 10*10 sub areas ·The min unit of schedule is half an hour		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getMotionDetectConfig&usr=admin&pwd=		

setMotionDetectConfig

Function	Set motion detect config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setMotionDetectConfig		
Param	isEnable	Is enable motion detect alarm	
	linkage	Motion alarm linkage (bit3 | bit2 | bit1 | bit0)	bit0:Ring
			bit1:Send mail
			bit2:Snap picture
			bit3:Record
	snapInterval	The interval time to snap picture again	
	sensitivity	Motion detect sensitivity	0 : Low
			1: Normal
			2: High
			3: Lower
			4: Lowest
	triggerInterval	The time of which motion detect alaram can trigger again when a motion detection has happened.	

	scheduleN	The motion alaram schedule of one week, N = 0(Monday) ~6(Sunday) For detail, see *1 bellow
	areaN	The area info of row N For detail, see *2 bellow
Return	None	
Note	·Video region is divided into 10*10 sub areasideo region is divided into 10*10 sub areas ·The min unit of schedule is half an hour	
Example	/cgi-bin/CGIProxy.fcgi?cmd=setMotionDetectConfig&isEnable=1&linkage=16& snapInterval=2&sensitivity=1&triggerInterval=5&schedule0=1024&schedule1 =1024&schedule2=1024&schedule3=1024&schedule4=1024&schedule5=102 4&schedule6=1024&area0=1024&area1=1024&area2=1024&area3=1024&ar ea4=1024&area5=1024&area6=1024&area7=1024&area7=1024&area8=1024 &area9=1024&usr=admin&pwd=	
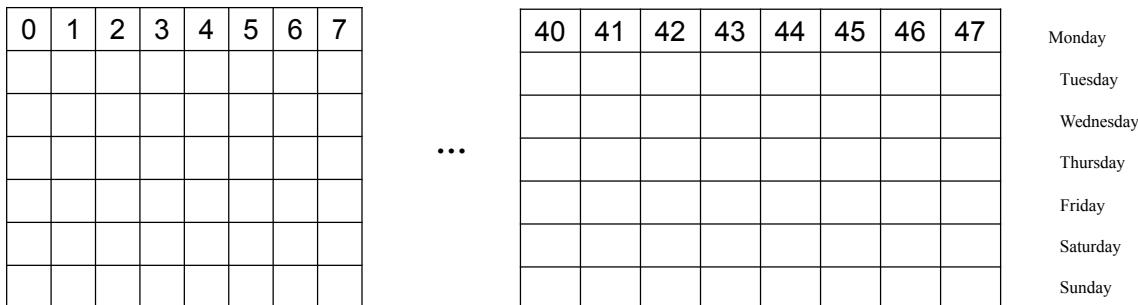
*1 schedule bitmap

0	1	2	3	4	5	6	7

···

40	41	42	43	44	45	46	47	Monday
								Tuesday
								Wednesday
								Thursday
								Friday
								Saturday
								Sunday

Each grid of a row presents half of an hour of one day. For example, 40 presents 20:00 ~20:30.

The bit 40 set to "1" means the motion detection is effective between 20:00 to 20:30

*2 area bitmap

bit0	bit1	bit2	bit3	bit4	bit5	bit6	bit7	bit8	bit9	area0
										area1
										area2
										area3
										area4
										area5
										area6
										area7
										area8
										area9

The video region is divided into 10*10 sub areas, bit0 above present the first area, when this bit is set to "1", it means motion detection is effective on this area.

setLocalAlarmRecordConfig

Function	Set local alarm-record config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setLocalAlarmRecordConfig		
Param	`isEnableLocalAlarmRecord`	0	Disable
		1	Enable
	`localAlarmRecordSecs`	Recording time	
Return	None		
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=setLocalAlarmRecordConfig&isEnableLocalAlarmRecord=1&localAlarmRecordSecs=30&usr=admin&pwd=		

getLocalAlarmRecordConfig

Function	Get local alarm-record config		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getLocalAlarmRecordConfig		
Param	None		
Return	`isEnableLocalAlarmRecord`	0	Disable
		1	Enable
	`localAlarmRecordSecs`	Recording time	
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getLocalAlarmRecordConfig&usr=admin&pwd=		

getSnapConfig

Function	Get snap config		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getSnapSetting		
Param	None		
Return	snapPicQuality	0	Low quality

		1	Normal quality
		2	High quality
	saveLocation	0	Save to sd card
		1	Not in use now
		2	Upload to FTP
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getSnapConfig&usr=admin&pwd=		

setSnapConfig

Function	Set snap config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setSnapSetting		
Param	snapPicQuality	0	Low quality
		1	Normal quality
		2	High quality
	saveLocation	0	Save to sd card
		1	Not in use now
		2	Upload to FTP
Return	None		
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=setSnapConfig&snapPicQuality=1&saveLocation=2&usr=admin&pwd=		

getScheduleSnapConfig

Function	Get schedule snap config	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getScheduleSnapConfig	
Param	None	
Return	isEnable	Is enable motion detect alarm
	snapInterval	The interval time to snap picture again
	scheduleN	The motion alaram schedule of one week, N = 0(Monday) ~6(Sunday) For detail, see *1 bellow
Note	·The min unit of schedule is half an hour	
Example	/cgi-bin/CGIProxy.fcgi?cmd=getScheduleSnapConfig&usr=admin&pwd=	

setScheduleSnapConfig

Function	Set schedule snap config	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setScheduleSnapConfig	
Param	isEnable	Is enable snap
	snapInterval	The interval time to snap picture again
	scheduleN	The motion alaram schedule of one week, N = 0(Monday) ~6(Sunday) For detail, see *1 bellow
Return	None	
Note	·The min unit of schedule is half an hour	
Example	/cgi-bin/CGIProxy.fcgi?cmd=setScheduleSnapConfig&isEnable=1&snapInterval=2&schedule0=1024&schedule1=1024&schedule2=1024&schedule3=1024&schedule4=1024&schedule5=1024&schedule6=1024&usr=admin&pwd=	
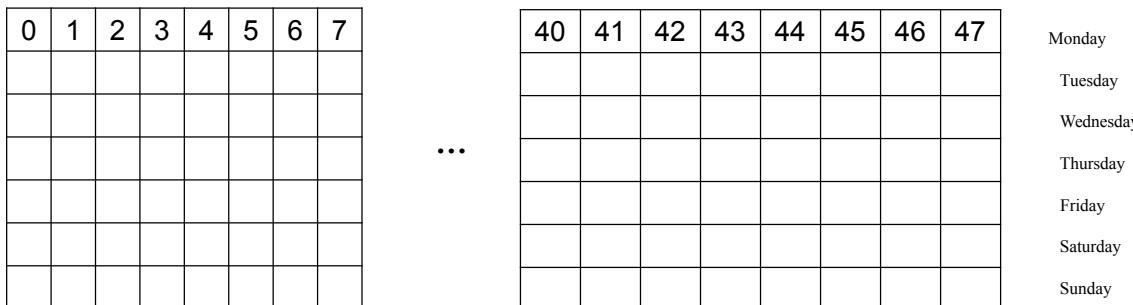
*1 schedule bitmap

0	1	2	3	4	5	6	7

...

40	41	42	43	44	45	46	47

Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday

Each grid of a row presents half of an hour of one day. For example, 40 presents 20:00 ~20:30.
The bit 40 set to "1" means the snap is effective between 20:00 to 20:30

snapPicture

Function	Manual snap picture
privilege	visitor
Usage	/cgi-bin/CGIProxy.fcgi?cmd=snapPicture
Param	None
Return	We will return a html script directly: <html><body></body></html>

Note	Picture resolution is the same as main stream resolutionnapPicture
Example	/cgi-bin/CGIProxy.fcgi?cmd=snapPicture&usr=admin&pwd=

snapPicture2

Function	Manual snap picture
privilege	visitor
Usage	/cgi-bin/CGIProxy.fcgi?cmd=snapPicture2
Param	None
Return	Jpeg image data
Note	This command will return jpeg image data directly
Example	/cgi-bin/CGIProxy.fcgi?cmd=snapPicture2&usr=admin&pwd=

getRecordList

Function	Get snap config	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getRecordList	
Param	recordPath	Record path
	startTime	Start time for research
	endTime	End time for research
	recordType	Recort type
	startNo	Start no
Return	totalCnt	Total record count
	curCnt	Current record count
	recordN	N(0-9), Record information
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getRecordList&usr=admin&pwd=	

getAlarmRecordConfig

Function	Get alarm record config	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getAlarmRecordConfig	
Param	None	
Return	isEnablePreRecord	Preview record state

	preRecordSecs	Preview record time
	alarmRecordSecs	Alarm record time
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getAlarmRecordConfig&usr=admin&pwd=	

setAlarmRecordConfig

Function	Set alarm record config	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setAlarmRecordConfig	
Param	isEnablePreRecord	Preview record state
	preRecordSecs	Preview record time
	alarmRecordSecs	Alarm record time
Return	Set result(0-success,-1-error)	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setAlarmRecordConfig&usr=admin&pwd=&isEnablePreRecord=1&preRecordSecs=5&alarmRecordSecs=30	

setIOAlarmConfig

Function	Set IO alarm config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setIOAlarmConfig		
Param	isEnable	Preview record state	
	linkage	IO alarm linkage	bit0:Ring
			bit1:Send mail
			bit2:Snap picture
			bit3:Record
	alarmLevel	Alarm level	
	snapInterval	Interval for snap picture	
	triggerInterval	Interval for trigger alarm again	
	scheduleN	N(0-6), alarm schedule	
Return	Set result(0-success,-1-error)		
Note			

Example	/cgi-bin/CGIProxy.fcgi?cmd=setIOAlarmConfig&usr=admin&pwd=&isEnable=1 &linkage=16&snapInterval=2&alarmLevel=1&triggerInterval=5&schedule0=10 24&schedule1=1024&schedule2=1024&schedule3=1024&schedule4=1024&s chedule5=1024&schedule6=1024

getIOAlarmConfig

Function	Get IO alarm config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getIOAlarmConfig		
Param	None		
Return	isEnable	Preview record state	
	linkage	IO alarm linkage	bit0:Ring
			bit1:Send mail
			bit2:Snap picture
			bit3:Record
	alarmLevel	Alarm level	
	snapInterval	Interval for snap picture	
	triggerInterval	Interval for trigger alarm again	
	scheduleN	N(0-6), alarm schedule	
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getIOAlarmConfig&usr=admin&pwd=		

clearIOAlarmOutput

Function	Clean IO alarm output
privilege	admin
Usage	/cgi-bin/CGIProxy.fcgi?cmd=clearIOAlarmOutput
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=clearIOAlarmOutput&usr=admin&pwd=

getMultiDevList

Function	Get multi device list

privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getMultiDevList	
Param	None	
Return	devN	N(0-8), device information
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getMultiDevList&usr=admin&pwd=	

getMultiDevDetailInfo

Function	Get multi device information	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getMultiDevDetailInfo	
Param	chnnl	Channel no
Return	productType	Device type
	ip	Device IP
	port	Web port
	mediaPort	Media port
	userName	User name
	passWord	Password
	devName	Device name
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getMultiDevDetailInfo&usr=admin&pwd=	

addMultiDev

Function	Add multiy device	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=addMultiDev	
Param	chnnl	Channel no
	productType	Device type
	ip	Device Ip
	port	Web port
	mediaPort	Media port
	userName	User name
	passWord	Password
	devName	Device name
Return	Add result(0-success,-1-error)	

Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=addMultiDev&usr=admin&pwd=&chnnl=2&productType=H264&ip=192.168.1.3&port=88&mediaPort=88&userName=admin&passWord=&devName=FI9805W

delMultiDev

Function	Delete multiy device
privilege	admin
Usage	/cgi-bin/CGIProxy.fcgi?cmd=delMultiDev
Param	chnnl	Channel no
Return	Delete result(0-success,-1-error)
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=delMultiDev&usr=admin&pwd=&chnnl=2

User account

addAccount

Function	Add user account		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=addAccount		
Param	usrName	user name	
	usrPwd	user password	
	privilege	0	Visitor
		1	Operator
		2	Administrator
Return	None		
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=addAccount&usrName=test&usrPwd=test&privilege=0& usr=admin&pwd=		

delAccount

Function	Delete user account	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=delAccount	
Param	usrName	user name
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=delAccount&usrName=test&usr=admin&pwd=	

changePassword

Function	Change password	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=changePassword	
Param	usrName	The user you want to change password
	oldPwd	old password
	newPwd	new password
Return	None	
Note	Admin can change every user's password, visitor and operator can only change their own password	
Example	/cgi-bin/CGIProxy.fcgi?cmd=changePassword&usrName=admin&oldPwd=&newPwd=test&usr=admin&pwd=	

changeUserName

Function	Change user name	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=changeUserName	
Param	usrName	The user you want to change name
	newUsrName	The new user name
Return	None	
Note	Admin can change every user's name, visitor and operator can only change their own name	
Example	/cgi-bin/CGIProxy.fcgi?cmd=changeUserName&usrName=admin&	

	newUsrName=newname&usr=admin&pwd=

logIn

Function	User log in to camera			
privilege	visitor			
Usage	/cgi-bin/CGIProxy.fcgi?cmd= logIn			
Param	usrName	User name		
	remoteIp	Access IP		
	groupId	An id use to distinguish different users,can be set to current cpu tick		
	pwd	password		
Return	logInResult	0	Login success	
		-1	Parameter check error	
		-2	Exceed max user	
		-4	User not exist	
		-6	Password error	
		-7	Access deny	
	privilege	0	Visitor	
		1	Operator	
		2	Administrator	
Note				
Example	/cgi-bin/CGIProxy.fcgi?cmd=logIn&usrName=admin&remoteIp=192.168. 1.12&groupId=673982479&pwd=&usr=admin&pwd=			

logOut

Function	User log out to camera	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=logOut	
Param	usrName	User name
	ip	Access IP
	groupId	An id use to distinguish different users,can be set to current cpu tick
Return	logOutResult	
Note		

Example	/cgi-bin/CGIProxy.fcgi?cmd=logOut&usrName=admin&ip=192.168.1.12&groupId=673982479&usr=admin&pwd=

getSessionList

Function	Get current session list of the camera	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getSessionList	
Param	None	
Return	usrCnt	session count
	usrN	User name of session N
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getSessionList&usr=admin&pwd=	

getUserList

Function	Get user account list of the camera	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getUserList	
Param	None	
Return	usrCnt	User count
	usrN	User name of accnount N
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getUserList&usr=admin&pwd=	

usrBeatHeart

Function	user checks connection with camera	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=usrBeatHeart	
Param	usrName	User name
	remoteIp	Access IP
	groupId	An id use to distinguish different users,can be set to current cpu tick
Return	checkResult(0-success,-1-error)	
Note		

Example	/cgi-bin/CGIProxy.fcgi?cmd=usrBeatHeart&usrName=admin&ip=192.168.1.13 &groupId=673982479&usr=admin&pwd=

PTZ Control

ptzMoveUp

Function	Move up
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveUp
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveUp&usr=admin&pwd=

ptzMoveDown

Function	Move down
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveDown
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveDown&usr=admin&pwd=

ptzMoveLeft

Function	Move to left
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveLeft
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveLeft&usr=admin&pwd=

ptzMoveRight

Function	Move to right
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveRight
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveRight&usr=admin&pwd=

ptzMoveTopLeft

Function	Move to top left
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveTopLeft
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveTopLeft&usr=admin&pwd=

ptzMoveTopRight

Function	Move to top right
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveTopRight
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveTopRight&usr=admin&pwd=

ptzMoveBottomLeft

Function	Move to bottom left
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveBottomLeft
Param	None

Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveBottomLeft&usr=admin&pwd=

ptzMoveBottomRight

Function	Move to bottom right
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveBottomRight
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzMoveBottomRight&usr=admin&pwd=

ptzStopRun

Function	Stop run PT
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzStopRun
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzStopRun&usr=admin&pwd=

ptzReset

Function	Reset PT to default position
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzReset
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzReset&usr=admin&pwd=

getPTZSpeed

Function	Get the speed of PT		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getPTZSpeed		
Param	None		
Return	speed	0	Very slow
		1	Slow
		2	Normal speed
		3	Fast
		4	Very fast
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getPTZSpeed&usr=admin&pwd=		

setPTZSpeed

Function	Set the speed of PT		
privilege	operator		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setPTZSpeed		
Param	speed	0	Very slow
		1	Slow
		2	Normal speed
		3	Fast
		4	Very fast
Return	None		
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=setPTZSpeed&speed=2&usr=admin&pwd=		

getPTZPresetPointList

Function	Get all preset point	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getPTZPresetPointList	
Param	None	
Return	cnt	Current preset point count
	pointN	The name of point N

Note	Our device can support at most 16 preset point
	We have 4 point default:LeftMost\RightMost\TopMost\BottomMost
Example	/cgi-bin/CGIProxy.fcgi?cmd=getPTZPresetPointList&usr=admin&pwd=

ptzAddPresetPoint

Function	Add preset point	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzAddPresetPoint	
Param	name	Preset point name
Return	None	
Note	The preset point position is current PT position	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzAddPresetPoint&name=test&usr=admin&pwd =	

ptzDeletePresetPoint

Function	Delete preset point by name	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzDeletePresetPoint	
Param	name	Preset point name
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzDeletePresetPoint&name=test&usr=admin&p wd=	

ptzGotoPresetPoint

Function	Goto preset position	
privilege	operator	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzGotoPresetPoint	
Param	name	Preset point name
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzGotoPresetPoint&name=test&usr=admin&pwd =	

ptzGetCruiseMapList

Function	Get all cruise map list
privilege	visitor
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzGetCruiseMapList
Param	None
Return	cnt	Current cruise map point count
	mapN	The name of map N
Note	Our device can support at most 8 cruise map
	We have 2 maps default:Horizental/Vertical
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzGetCruiseMapList&usr=admin&pwd=

ptzGetCruiseMapInfo

Function	Get the detail info of a cruise map by name		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzGetCruiseMapInfo		
Param	name	Name of the cruise map	
Return	getResult	0	Success
		-1	Fail
	pointN	The preset point name of this cruise map	
Note	Our device can support at most 8 preset point one cruise map		
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzGetCruiseMapInfo&name=Horizental&usr=admin&pwd=		

ptzSetCruiseMap

Function	Add a cruise map
privilege	admin
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzSetCruiseMap
Param	name	Name of the cruise map
	pointN	The name of preset point N
Return	None
Note	Our device can support at most 8 preset point one cruise map
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzSetCruiseMap&name=test&point0=test0&point1=test1&point2=test2&point3=test3&point4=test4&point5=test5&point6=&poin

	t7=&usr=admin&pwd=

ptzDelCruiseMap

Function	Delete a cruise map	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzDelCruiseMap	
Param	name	Name of the cruise map
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzDelCruiseMap&name=test&usr=admin&pwd=	

ptzStartCruise

Function	Start a specificate cruise	
privilege	operator	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzStartCruise	
Param	mapName	Name of the cruise map
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzStartCruise&mapName=test&usr=admin&pwd=	

ptzStopCruise

Function	Start current cruise
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=ptzStopCruise
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=ptzStopCruise&usr=admin&pwd=

zoomIn

Function	Zoom in
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=zoomIn

Param	None
Return	None
Note	Only supported by the device has zoom lens
Example	/cgi-bin/CGIProxy.fcgi?cmd=zoomIn&usr=admin&pwd=

zoomOut

Function	Zoom out
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=zoomOut
Param	None
Return	None
Note	Only supported by the device has zoom lens
Example	/cgi-bin/CGIProxy.fcgi?cmd=zoomOut&usr=admin&pwd=

zoomStop

Function	Stop zoom run
privilege	operator
Usage	/cgi-bin/CGIProxy.fcgi?cmd=zoomStop
Param	None
Return	None
Note	Only supported by the device has zoom lens
Example	/cgi-bin/CGIProxy.fcgi?cmd=zoomStop&usr=admin&pwd=

getZoomSpeed

Function	Get the speed of Zoom		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getZoomSpeed		
Param	None		
Return	speed	0	Slow
		1	Normal
		2	Fast
Note	Only supported by the device has zoom lens		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getZoomSpeed&usr=admin&pwd=		

setZoomSpeed

Function	Set the speed of PTZ		
privilege	operator		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setZoomSpeed		
Param	speed	0	Slow
		1	Normal
		2	Fast
Return	None		
Note	Only supported by the device has zoom lens		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setZoomSpeed&usr=admin&pwd=&speed=1		

setPTZSelfTestMode

Function	Set the selftest mode of PTZ		
privilege	operator		
Usage	/cgi-bin/CGIProxy.fcgi?cmd= setPTZSelfTestMode		
Param	mode	0	No selftest
		1	Normal selftest
		2	After normal selftest, then goto presetpoint-appointed
Return	None		
Note	Only supported by ipc that can enable ptz-selftest		
Example	/cgi-bin/CGIProxy.fcgi?usr=admin&pwd=&cmd=setPTZSelfTestMode&mode=2		

getPTZSelfTestMode

Function	Get the selftest mode of PTZ		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd= getPTZSelfTestMode		
Param	None		
Return	mode	0	No selftest
		1	Normal selftest
		2	After normal selftest, then goto presetpoint-appointed
Return	None		

Note	Only supported by ipc that can enable ptz-selftest
Example	/cgi-bin/CGIProxy.fcgi?usr=admin&pwd=&cmd=getPTZSelfTestMode

setPTZPrePointForSelfTest

Function	Set presetpoint for selftest of PTZ	
privilege	operator	
Usage	/cgi-bin/CGIProxy.fcgi?cmd= setPTZPrePointForSelfTest	
Param	name	Preset point name
Return	None	
Note	Only supported by ipc that can enable ptz-selftest-2	
Example	/cgi-bin/CGIProxy.fcgi?usr=admin&pwd=&cmd=setPTZPrePointForSelfTest&name=TopMost	

getPTZPrePointForSelfTest

Function	Get the presetpoint for selftest of PTZ	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd= getPTZPrePointForSelfTest	
Param	None	
Return	name	Preset point name
Note	Only supported by ipc that can enable ptz-selftest	
Example	/cgi-bin/CGIProxy.fcgi?usr=admin&pwd=&cmd=getPTZPrePointForSelfTest	

set485Info

Function	Set informations of 485	
privilege	operator	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=set485Info	
Param	rs485Protocol	Protocol
	rs485Addr	Address
	rs485Baud	Baud rate
	rs485DataBit	DataBit
	rs485StopBit	StopBit
	rs485Check	Parity
Return	None	

Note	Only supported by ipc that can enable 485
Example	/cgi-bin/CGIProxy.fcgi?usr=admin&pwd=&cmd=set485Info&rs485Protocol =0&rs485Addr=1&rs485Baud=1200&rs485DataBit=7&rs485StopBit=1&rs 485Check=0

get485Info

Function	Get informations of 485	
privilege	Visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=get485Info	
Param	None	
Return	rs485Protocol	Protocol
	rs485Addr	Address
	rs485Baud	Baud rate
	rs485DataBit	DataBit
	rs485StopBit	StopBit
	rs485Check	Parity
Note	Only supported by ipc that can enable 485	
Example	/cgi-bin/CGIProxy.fcgi?usr=admin&pwd=&cmd=get485Info	

Network

getIPInfo

Function	Get IP Info	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getIPInfo	
Param	None	
Return	isDHCP	Obtain ip from dhcp server or not
	ip	ip address(Can only support ipv4 yet)
	gate	gateway("0.0.0.0" when use dhcp)
	mask	subnet mask
	dns1	The first dns server addr("0.0.0.0" when use dhcp)
	dns2	The second dns server addr("0.0.0.0" when use dhcp)
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getIPInfo&usr=admin&pwd=	

setIpInfo

Function	Set IP Info	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setIpInfo	
Param	isDHCP	Obtain ip from dhcp server or not
	ip	ip address(Can only support ipv4 yet)
	gate	gateway
	mask	subnet mask
	dns1	The first dns server addr
	dns2	The second dns server addr
Return	None	
Note	System will reboot automatically to take effect after call this CGI command	
Example	/cgi-bin/CGIProxy.fcgi?cmd=setIpInfo&isDHCP=0&ip=192.168.1.88&gate=192.168.1.1&mask=255.255.255.0&dns1=192.168.1.1&dns2=192.168.1.1&usr=admin&pwd=	

refreshWifiList

Function	Start scan the aps around	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=refreshWifiList	
Param	None	
Return	None	
Note	This operation may takes a while, about 20 seconds or above, the other operation on this device will be blocked during the period.	
Example	/cgi-bin/CGIProxy.fcgi?cmd=refreshWifiList&usr=admin&pwd=	

getWifiList

Function	Get the aps around after refreshWifiList	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getWifiList	
Param	startNo	The start NO of the ap list you want to get. For example:The are 30 aps around you, you want to look at the last ten aps, then startNo=20
Return	totalCnt	Total count of aps

	curCnt	Current aps count		
	apN	The detail info of ap N Format: ssid+mac+quality+isEncrypt+encrypType	ssid	AP name
			mac	AP's mac address
			quality	Signal quality(0~100)
			isEncrypt	Encrypt or not
			encrypType	0 Open mode
				1 WEP
				2 WPA
				3 WPA2
				4 WPA/WPA2
Note	Only 10 aps will be returned one time			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getWifiList&startNo=0&usr=admin&pwd=			

setWifiSetting

Function	Set wifi config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setWifiSetting		
Param	isEnable	Enable state	
	isUseWifi	Use wifi or not	
	ssid	AP name	
	netType	0	Infra net
		1	Ad-hoc Not supported yet
	encryptType	0	Open mode
		1	WEP
		2	WPA
		3	WPA2
		4	WPA/WPA2
	psk	The psk of WPA WPA2	
	authMode	0	Open mode
		1	Shared key
		2	Auto mode
	keyFormat	0	ASIC
		1	Hex
	defaultKey	1~4	
	key1		
	key2		

	key3	
	key4	
	key1Len	64 or 128
	key2Len	64 or 128
	key3Len	64 or 128
	key4Len	64 or 128
Return	None	
Note	Camera will not connect to AP unless you enject your cable	
Example	/cgi-bin/CGIProxy.fcgi?cmd=setWifiSetting&isEnable=1&isUseWifi=1&ssid=fostar_soft&netType=0&encryptType=4&psk=software&authMode=0&keyFormat=0&defaultKey=1&key1=&key2=&key3=&key4=&key1Len=64&key2Len=64&key3Len=64&key4Len=64&usr=admin&pwd=	

getWifiConfig

Function	Get wifi config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getWifiConfig		
Param	None		
Return	isEnable	Enable state	
	isUseWifi	Use wifi or not	
	isConnected	Connected state	
	connectedAp	Connedted ap	
	ssid	AP name	
	encryptType	0	Open mode
		1	WEP
		2	WPA
		3	WPA2
		4	WPA/WPA2
	psk	The psk of WPA WPA2	
	authMode	0	Open mode
		1	Shared key
		2	Auto mode
	keyFormat	0	ASIC
		1	Hex

	defaultKey	1~4
	key1	
	key2	
	key3	
	key4	
	key1Len	64 or 128
	key2Len	64 or 128
	key3Len	64 or 128
	key4Len	64 or 128
Return	None	
Note	Camera will not connect to AP unless you enject your cable	
Example	/cgi-bin/CGIProxy.fcgi?cmd=getWifiConfig&usr=admin&pwd=	

getPortInfo

Function	Get http port and media port of camera	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getPortInfo	
Param	None	
Return	webPort	http port(default value is 88)
	httpsPort	https port(default value is 443)
	mediaPort	media port(default value is 88)
	onvifPort	Onvif Port(default value is 888)
Note	.You can call this CGI command without usr or pwd section .onvifPort param only for onvif camera, the camra which does not has onvif function does not have this param	
Example	/cgi-bin/CGIProxy.fcgi?cmd=getPortInfo&usr=admin&pwd=	

setPortInfo

Function	Set http port and media port of camera	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getPortInfo	
Param	webPort	http port(default value is 88)
	mediaPort	media port(default value is 88)
	httpsPort	https port(default value is 443)
	onvifPort	Onvif Port(default value is 888)

Return	None	
Note	.Re login is needed after call this CGI command .onvifPort param only for onvif camera, the camra which does not has onvif function does not have this param	
Example	/cgi-bin/CGIProxy.fcgi?cmd=setPortInfo&webPort=88&mediaPort=88&httpsPort=443&onvifPort=888&usr=admin&pwd=	

getUPnPConfig

Function	Get UpnP config	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getUPnPConfig	
Param	None	
Return	isEnable	is Enable UpnP function
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getUPnPConfig&usr=admin&pwd=	

setUPnPConfig

Function	Set UpnP config	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setUPnPConfig	
Param	isEnable	is Enable UpnP function
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setUPnPConfig&isEnable=1&usr=admin&pwd=	

getDDNSConfig

Function	Get DDNS config		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getDDNSConfig		
Param	None		
Return	isEnable	is Enable DDNS update	
	hostName	DDNS domain	
	ddnsServer	0	Factory DDNS
		1	Oray

		2	3322
		3	no-ip
		4	dyndns
	user	user name	
	password	password	
	factoryDDNS	factory ddns	
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getDDNSConfig&usr=admin&pwd=		

setDDNSConfig

Function	Set DDNS config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setDDNSConfig		
Param	isEnable	is Enable DDNS update	
	hostName	DDNS domain	
	ddnsServer	0	Factory DDNS
		1	Oray
		2	3322
		3	no-ip
		4	dyndns
	user	user name	
	password	password	
Return	None		
Note	This command can only be used to set the third party ddns		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setDDNSConfig&isEnable=1&hostName=test.dyndns.org&ddnsServer=4&user=test&password=test&usr=admin&pwd=		

setFtpConfig

Function	Set FTP config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setFtpConfig		
Param	ftpAddr	FTP server address, you can contain sub directory in it	
	ftpPort	FTP port	
	mode	0	PASV mode
		1	PORT mode

	userName	user name
	password	password
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setFtpConfig&ftpAddr=ftp://192.168.1.2/sbuDir&ftpPort=21&mode=0&userName=test&password=test&usr=admin&pwd=	

getFtpConfig

Function	Get FTP config		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getFtpConfig		
Param	None		
Param	ftpAddr	FTP server address, you can contain sub directory in it	
	ftpPort	FTP port	
	mode	0	PASV mode
		1	PORT mode
	userName	user name	
	password	password	
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getFtpConfig&usr=admin&pwd=		

testFtpServer

Function	Test FTP server		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=testFtpServer		
Param	ftpAddr	FTP server address, you can contain sub directory in it	
	ftpPort	FTP port	
	mode	0	PASV mode
		1	PORT mode
	userName	user name	
	password	password	
Return	testResult	0	Success
		-1	Fail
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=testFtpServer&ftpAddr=ftp://192.168.1.2/sbuDir&f		

	tpPort=21&mode=0&userName=test&password=test&usr=admin&pwd=

getSMTPConfig

Function	Get mail config		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getSMTPConfig		
Param	None		
Return	isEnable	is enable camera send mail?	
	server	SMTP server address	
	port	smtp port	
	isNeedAuth	Need auth user account or not	
	tls	0	None
		1	TLS
		2	STARTTLS
	user	user name	
	password	password	
	sender		
	reciever	Use "," between 2 senders, for exapler: aaa@123.com,bbb@456.com	
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getSMTPConfig&usr=admin&pwd=		

setSMTPConfig

Function	Get mail config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setSMTPConfig		
Param	isEnable	is enable camera send mail?	
	server	SMTP server address	
	port	smtp port	
	isNeedAuth	Need auth user account or not	
	tls	0	None
		1	TLS
		2	STARTTLS
	user	user name	
	password	password	

	sender	
	reciever	Use "," between 2 senders, for exapler: aaa@123.com,bbb@456.com
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setSMTPConfig&isEnable=1&server=smtp.gmail.com&port=587&isNeedAuth=1&user=test&password=test&send=test@gmail.com&reciever=aa@123.com,bb@456.com&usr=admin&pwd=	

smtpTest

Function	Test mail setting		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=smtpTest		
	smtpServer	SMTP server address	
	port	smtp port	
	isNeedAuth	Need auth user account or not	
	tls	0	None
		1	TLS
		2	STARTTLS
	user	user name	
	password	password	
Return	testResult	0	Success
		-1	Fail
Note	You must call setSMTPConfig firstly. We will send a test mail to all recievers		
Example	/cgi-bin/CGIProxy.fcgi?cmd=smtpTest&smtpServer=smtp.gmail.com&port=587&isNeedAuth=1&user=test&password=test&usr=admin&pwd=		

setP2PEnable

Function	Set p2p status		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setP2PEnable		
	enable	0	Disable
		1	Enable
Return	None		

Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=setP2PEnable&enable=1&usr=admin&pwd=

getP2PEnable

Function	Get p2p status		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getP2PEnable		
Param	None		
	enable	0	Disable
		1	Enable
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getP2PEnable&usr=admin&pwd=		

setP2PPort

Function	Set p2p port	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setP2PPort	
	port	P2P port number
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setP2PPort&port=12345&usr=admin&pwd=	

getP2PPort

Function	Get p2p port	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getP2PPort	
Param	None	
	port	P2P port number
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getP2PPort&usr=admin&pwd=	

Device manage

setSystemTime

Function	Set system time		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setSystemTime		
Param	timeSource	0	Get time from NTP server
		1	Set time manually
	ntpServer	ntp server addr Support ntp server: time.nist.gov time.kriss.re.kr time.windows.com time.nuri.net	
	dateFormat	0	YYYY-MM-DD
		1	DD/MM/YYYY
		2	MM/DD/YYYY
	timeFormat	0	12 hours
		1	24 hours
	timeZone	The seconds between local time and GMT time. For example: timeZone=3600 presents GMT-01:00 timeZone=-3600 presents GMT+01:00	
	isDst	Daylight saving time (0-disable,1-enable)	
	dst	Not in use currently	
	year		
	month		
	day		
	hour		
	min		
	sec		
Return	None		
Note	This command can only be used to set the third party ddns		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setSystemTime&timeSource=1&ntpServer=&dateFormat=0&timeFormat=0&timeZone=0&isDst=0&dst=0&year=2012&mon=1&day=6&hour=9&minute=35&sec=0&usr=admin&pwd=		

getSystemTime

Function	Get system time		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getSystemTime		
Param	None		
Return	timeSource	0	Get time from NTP server
		1	Set time manually
	ntpServer	ntp server addr Support ntp server: time.nist.gov time.kriss.re.kr time.windows.com time.nuri.net	
	dateFormat	0	YYYY-MM-DD
		1	DD/MM/YYYY
		2	MM/DD/YYYY
	timeFormat	0	12 hours
		1	24 hours
	timeZone	The seconds between local time and GMT time. For example: **timeZone=3600 presents GMT-01:00** **timeZone=-3600 presents GMT+01:00**	
	isDst	Daylight saving time (0-disable,1-enable)	
	dst	Not in use currently	
	year		
	month		
	day		
	hour		
	min		
	sec		
Note	This command can only be used to set the third party ddns		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getSystemTime&usr=admin&pwd=		

openInfraLed

Function	Force open infra led
privilege	admin
Usage	/cgi-bin/CGIProxy.fcgi?cmd=openInfraLed
Param	None

Return	ctrlResult	0	Success
		-1	Fail
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=openInfraLed&usr=admin&pwd=		

closeInfraLed

Function	Force close infra led		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=closeInfraLed		
Param	None		
Return	ctrlResult	0	Success
		-1	Fail
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=closeInfraLed&usr=admin&pwd=		

getInfraLedConfig

Function	Get infra led config		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getInfraLedConfig		
Param	None		
Return	mode	0	Auto mode
		1	Manual mode
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getInfraLedConfig&usr=admin&pwd=		

setInfraLedConfig

Function	Set infra led config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setInfraLedConfig&mode=0		
Param	mode	0	Auto mode
		1	Manual mode
Return	None		
Note			

Example	/cgi-bin/CGIProxy.fcgi?cmd=setInfraLedConfig&mode=&usr=admin&pwd=

getDevState

<table>
<tr><td>Function</td><td colspan="3">Get all device state</td></tr>
<tr><td>privilege</td><td colspan="3">visitor</td></tr>
<tr><td>Usage</td><td colspan="3">/cgi-bin/CGIProxy.fcgi?cmd=getDevState</td></tr>
<tr><td>Param</td><td colspan="3">None</td></tr>
<tr><td rowspan="37">Return</td><td rowspan="3">IOAlarm</td><td>0</td><td>Disabled</td></tr>
<tr><td>1</td><td>No alaram</td></tr>
<tr><td>2</td><td>Detect alarm</td></tr>
<tr><td rowspan="3">motionDetectAlaram</td><td>0</td><td>Disabled</td></tr>
<tr><td>1</td><td>No alarm</td></tr>
<tr><td>2</td><td>Detect alarm</td></tr>
<tr><td rowspan="3">soundAlarm</td><td>0</td><td>Disabled</td></tr>
<tr><td>1</td><td>No alarm</td></tr>
<tr><td>2</td><td>Detect alarm</td></tr>
<tr><td rowspan="2">record</td><td>0</td><td>Not in recording</td></tr>
<tr><td>1</td><td>Recording</td></tr>
<tr><td rowspan="3">sdState</td><td>0</td><td>No sd card</td></tr>
<tr><td>1</td><td>Sd card ok</td></tr>
<tr><td>2</td><td>Sd card read only</td></tr>
<tr><td>sdFreeSpace</td><td colspan="2">Free space of sd card by unit of k</td></tr>
<tr><td>sdTotalSpace</td><td colspan="2">Total space of sd card by unit of k</td></tr>
<tr><td rowspan="3">ntpState</td><td>0</td><td>Disabled</td></tr>
<tr><td>1</td><td>Update success</td></tr>
<tr><td>2</td><td>Update fail</td></tr>
<tr><td rowspan="3">ddnspState</td><td>0</td><td>Disabled</td></tr>
<tr><td>1</td><td>Update success</td></tr>
<tr><td>2</td><td>Update fail</td></tr>
<tr><td>url</td><td colspan="2">DDNS url</td></tr>
<tr><td rowspan="3">upnpState</td><td>0</td><td>Disabled</td></tr>
<tr><td>1</td><td>Update success</td></tr>
<tr><td>2</td><td>Update fail</td></tr>
<tr><td rowspan="2">isWifiConnected</td><td>0</td><td>No wifi connected</td></tr>
<tr><td>1</td><td>Connected</td></tr>
<tr><td>wifiConnectedAP</td><td colspan="2">The ssid of the ap which has been connected</td></tr>
</table>

	infraLedState	0	OFF
		1	ON
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getDevState&usr=admin&pwd=		

getDevName

Function	Get camera name	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getDevName	
Param	None	
Return	devName	Camera name
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getDevName&usr=admin&pwd=	

setDevName

Function	Set camera name	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setDevName	
Param	devName	Camera name
Return	None	
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=setDevName&devName=test&usr=admin&pwd=	

getDevInfo

Function	Get camera information	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getDevInfo	
Param	None	
Return	productName	Camera model
	serialNo	Serial no
	devName	Camera name
	mac	Mac address

	year	
	mon	
	day	
	hour	
	min	
	sec	
	timeZone	Time zone
	firmwareVer	Firmware version
	hardwareVer	Hardware version
Note		
Example	/cgi-bin/CGIProxy.fcgi?cmd=getDevInfo&usr=admin&pwd=	

System

rebootSystem

Function	Reboot camera
privilege	admin
Usage	/cgi-bin/CGIProxy.fcgi?cmd=rebootSystem
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd=rebootSystem&usr=admin&pwd=

restoreToFactorySetting

Function	Restore to factory setting
privilege	admin
Usage	/cgi-bin/CGIProxy.fcgi?cmd=restoreToFactorySetting
Param	None
Return	None
Note	
Example	/cgi-bin/CGIProxy.fcgi?cmd= restoreToFactorySetting&usr=admin&pwd=

exportConfig

Function	Export config file	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=exportConfig	
Param	None	
Return	fileName	The config name
Note	After call this command, you can get the config file by visit the following addr: /configs/export/configs.bin	
Example	/cgi-bin/CGIProxy.fcgi?cmd=exportConfig&usr=admin&pwd=	

ImportConfig

Function	Import config file	
privilege	admin	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=importConfig&usr=admin&pwd=	
Param	None	
Return	None	
Note	System will reboot automatically after this operation	
Example	<form name="form5" method="post" target="retframe" enctype="multipart/form-data" action="cgi-bin/ CGIProxy.fcgi?cmd=importConfig&usr=admin&pwd=" > <input type="file" name="setting_file" > <input type="submit" value="import" > </form>	

FwUpgrade

Function	Upgrade firmware		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=fwUpgrade&usr=admin&pwd=		
Param	None		
Return	upgradeResu lt	0	Upgrade success
		-1	Upgrade fail
Note	System will reboot automatically after this operation. This action may takes about 120s when upgrade app firmware, takes about		

	60s when upgrade system firmware
Example	`<form name="form5" method="post" target="retframe" enctype="multipart/form-data"` `action="cgi-bin/ CGIProxy.fcgi?cmd=fwUpgrade&usr=admin&pwd=" >`
	`<input type="file" name="fw_file" >`
	`<input type="submit" value="upgrade" >`
	`</form>`

MISC

getFirewallConfig

Function	Get firewall config		
privilege	visitor		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getFirewallConfig		
Param	None		
Return	isEnable	Use firewall or not	
	rule	0	The ip list can't access
		1	Only allow the ip list to access
	ipListN	The ip address(Network address) of list N	
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=getFirewallConfig&usr=admin&pwd=		

setFirewallConfig

Function	Set firewall config		
privilege	admin		
Usage	/cgi-bin/CGIProxy.fcgi?cmd=setFirewallConfig		
Param	isEnable	Use firewall or not	
	rule	0	The ip list can't access
		1	Only allow the ip list to access
	ipListN	The ip address(Network address) of list N	
Return	None		
Note			
Example	/cgi-bin/CGIProxy.fcgi?cmd=setFirewallConfig&isEnable=1&rule=0&ipList0=0		

	&ipList1=0&ipList2=0&ipList3=0&ipList4=0&ipList5=0&ipList6=0&ipList7=0&usr=admin&pwd=

getLog

Function	Get system log	
privilege	visitor	
Usage	/cgi-bin/CGIProxy.fcgi?cmd=getLog	
Param	offset	Where you want to start get log
	count	How many logs you want to get, must less then 20
Return	totalCnt	Total log count
	curCnt	current log count
	logN	log information, consist by time+user+ip+logID
Note	We can have 1000 record of log at most. We can get 10 log at most one time	
Example	/cgi-bin/CGIProxy.fcgi?cmd=getLog&offset=0&count=20&usr=admin&pwd=	

*logID:

0:System power on

1:Detect motion alarm

2:user login

3:user logout

4:user off line