

USER MANUAL



HTTP API for CM70-IP series

CM70-IP • CM71-IP • CM73-IP

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Symbols Used in This Manual

Symbol	Meaning	Description
	Danger	Not following the instructions associated with this symbol may lead to personal injury and / or serious damage to the Product.
	Electrical Shock	Not following the instructions associated with this symbol may lead to life-threatening situations and / or serious damage to the Product.
	Important	The information associated with this symbol requires special attention.
	Information	The information associated with symbol refers to a general remark or a reference to other documentation.
	Instruction	This symbol refers to one or more user instructions.
	Recycling	Specific parts of the Product can be re-used.

Contents

DISCLAIMER, CONTACT AND LIABILITY.....	ii
Symbols Used in This Manual.....	ii
INTRODUCTION.....	4
Purpose of This Manual.....	4
Target Audience.....	4
Document Structure.....	4
APPENDIX C - HTTP API.....	5
How to use HTTP API.....	5
Curl.....	6
{'GetEnv'}.....	6
HTTP API code list.....	7
IR Remote Control.....	7
PTZ.....	7
Audio.....	10
Video.....	10
Network.....	19
System.....	20

INTRODUCTION

Purpose of This Manual

This Manual describes the instructions and programming codes of the HTTP API functionality of the CM70 camera, which you could use to control the camera over IP.

Target Audience

This manual is developed for IT professionals who are responsible for operating the Product.

Document Structure

The Manual is subdivided into the following **Chapters**:

1. [Introduction](#)
2. [Appendix C - HTTP API](#)

APPENDIX C - HTTP API

With the HTTP API you can control the camera by using a web browser like Microsoft Edge or Google Chrome. It is possible to change multiple settings at once using this feature. This document is available as an Appendix in the CM70 series manual and as a separate document that can be downloaded on the [product website](#).

How to use HTTP API

All codes in the [HTTP API code list](#) are clickable. Do **NOT** click **left** on these codes!



Follow instructions below:

1. Click **right** and click (left) to COPY the link.

HTTP API code list

IR Remote Control

IR Enable/Disable

Command	Code	Command	Setting
szCmd	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"ArmPtz":{"blCtrlEnable":0}}}	blCtrlEnable	0: ON 1: OFF

PTZ

PTZControl

Code: http://192.168.5.126/ajaxcom?szCmd={"SysCtrl":{"PtzCtrl":{"nChannel":0,"szPtmCmd":{"left_start":50}}}}

Command	Setting	Function	Command
nChannel	0		
byValue	0,100 used to control the speed of ptz		

- Open link in new window
- Open link in InPrivate window
- Save link as
- Copy link
- Rotate clockwise Ctrl+]
 - Rotate counterclockwise Ctrl+[
- Inspect

2. Paste the link in your browser like this (Note that all the brackets are replaced by percentages. This is normal, ignore it):

← ↻ http://192.168.5.126/ajaxcom?szCmd=%7B%22SysCtrl%22%7B%22PtzCtrl%22%7B%22nChannel%22%22%22szPtmCmd%22%22left_start%22%22byValue%22%22%7D%7D%7D

3. Note that the IP Address in this link is an **example of an IP address**. Change this IP Address to the one you use for your camera. See [Network > Ethernet > IP Address](#).
4. Change the settings in the link. In this case:

← ↻ http://192.168.5.126/ajaxcom?szCmd=%7B%22SysCtrl%22%7B%22PtzCtrl%22%7B%22nChannel%22%22%22szPtmCmd%22%22left_start%22%22byValue%22%22%7D%7D%7D

5. Press **ENTER**. If **correct**, you get in return:

← ↻ http://192.168.5.126/ajaxcom?szCmd=%7B%22SysCtrl%22%7B%22PtzCtrl%22%7B%22nChannel%22%22%22szPtmCmd%22%22left_start%22%22byValue%22%22%7D%7D%7D
{ "nRetVal":0, "szError":"" }

If **failed**, you get in return.

← ↻ http://192.168.5.126/ajaxcom?szCmd=%7B%22SysCtrl%22%7B%22PtzCtrl%22%7B%22nChannel%22%22%22szPtmCmd%22%22left_start%22%22byValue%22%22%7D%7D%7D
{ "nRetVal":-1879048185, "szError":"" }

6. In case of a failed return, check the following:
 - Syntax errors in the code/ correct numbers in the key values. Some camera settings are having a specific range. The SRT key for example has a range of 0 - 32. If you have typed 33 it would exceed the range of this key.
 - No long white spaces between the key values of the code. For example this " code " is error and this "code" is right.
 - If you have entered the correct IP address of the camera.
7. If you have done it correct, you can check the settings you have changed in the WebGUI of the camera.

Curl

It is also possible to change the camera settings at once by using the **Command Prompt** from Windows.



Follow instructions below:

1. Click on **Start** in the left corner of your screen in Windows.
2. Type **Notepad** and open this application.
3. Copy and paste the following http link from the [HTTP API code list](#) (for example: `http://192.168.5.126/ajaxcom?szCmd={\"GetEnv\":{\"VideoParam\":{\"nChannel\":-1}}}`)
4. Type **curl**, change the default IP address in the IP Address of your camera, and surround it by quotation marks.
5. Add **--data-raw** between the http link and the code.
6. Type **szCmd** and surround it by quotation marks.
7. **Double** the quotation marks between the brackets! See the example below.

4

5

6

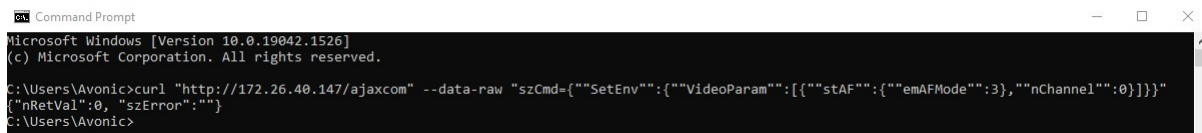
7

```
curl "http://172.26.40.147/ajaxcom" --data-raw "szCmd={\"SetEnv\":{\"VideoParam\":{\"stAF\":{\"emAFMode\":3,\"nChannel\":0}}}}"
```

Changed link (IP address camera)

Code from the HTTP API code list

8. Modify the parameters in the code. In the example above **EmAFmode:3** and **nChannel:0** See the [HTTP API code list](#).
9. Click on **Start** in Windows again, type **CMD** and press **Enter**.
10. Copy and paste the link/ code from notepad in **Command Prompt** and press **Enter**. If correct it returns: `{\"nRetVal\":0,\"szError\":\"\"}`



```
Microsoft Windows [Version 10.0.19042.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Avonic>curl "http://172.26.40.147/ajaxcom" --data-raw "szCmd={\"SetEnv\":{\"VideoParam\":{\"stAF\":{\"emAFMode\":3,\"nChannel\":0}}}}"
```

{\"GetEnv\"}

You can use the HTTP API to **display the current settings** of the camera in your browser or in the **Command Prompt** application. You need the `{\"GetEnv\"}` codes from the HTTP API code list to do this. If correct you see the following in your webbrowser, or in Command Prompt:



```
{
  "nRetVal": 0,
  "stValue": [
    {
      "stSlave": {
        "wHostPort": 1935,
        "szHostUrl": "172.40.26.147",
        "nProtoType": 2,
        "szStreamName": "live/av1",
        "bEnable": 0,
        "nAbProtoMask": 1,
        "szSrtKey": "",
        "wSrtKeyLen": 0,
        "szUserName": "",
        "szPassword": ""
      },
      "stMaster": {
        "wHostPort": 1935,
        "szHostUrl": "172.40.26.147",
        "nProtoType": 3,
        "szStreamName": "live/av0",
        "bEnable": 0,
        "nAbProtoMask": 1,
        "szSrtKey": "1111111111",
        "wSrtKeyLen": 0,
        "szUserName": "",
        "szPassword": ""
      }
    },
    "nChannel": 0
  ]
}
```



```

Microsoft Windows [Version 10.0.19044.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Avonic>curl "http://172.26.40.147/ajaxcom" --data-raw "szCmd={\"GetEnv\":{\"StreamPublish\":{\"nChannel\":-1}}}"
{
  "nRetVal": 0,
  "stValue": [
    {
      "stSlave": {
        "wHostPort": 1935,
        "szHostUrl": "172.40.26.147",
        "nProtolType": 2,
        "szStreamName": "live/av1",
        "bEnable": 0,
        "nAbProtolMask": 1,
        "szSrtKey": "",
        "wSrtKeyLen": 0,
        "szUserName": "",
        "szPassword": ""
      },
      "stMaster": {
        "wHostPort": 1935,
        "szHostUrl": "172.40.26.147",
        "nProtolType": 3,
        "szStreamName": "live/av0",
        "bEnable": 0,
        "nAbProtolMask": 1,
        "szSrtKey": "1111111111",
        "wSrtKeyLen": 0,
        "szUserName": "",
        "szPassword": ""
      }
    },
    {
      "nChannel": 0
    }
  ]
}
C:\Users\Avonic>

```

HTTP API code list

IR Remote Control

IR Enable/Disable			
Command	Code	Command	Setting
szCmd	http://192.168.5.126/ajaxcom?szCmd={\"SetEnv\":{\"ArmPtz\":{\"blrCtrlEnable\":0}}}	blrCtrlEnable	0: ON
			1: OFF

PTZ

PTZControl			
Code: http://192.168.5.126/ajaxcom?szCmd={\"SysCtrl\":{\"PtzCtrl\":{\"nChanel\":0,\"szPtzCmd\": \"left_start\", \"byValue\":50}}}			
Command	Setting	Function	Command
nChanel	0		
byValue	0,100 used to control the speed of ptz		
szPtzCmd			
		left start	left_start
		left stop	left_stop
		leftup start	leftup_start
		leftup stop	leftup_stop
		leftdown start	leftdown_start
		leftdown stop	leftdown_stop
		rightstart	right_start
		rightstop	right_stop
		rightup start	rightup_start
		rightdown start	rightdown_start
		rightdown stop	rightdown_stop
		upstart	up_start
		upstop	up_stop

PTZControl			
		downstart	down_start
		downstop	down_stop

PTZ speed

Set PTZ Speed			
Command	Code	Command	Setting
szCmd	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"PTZSpeed": {"nPTZSpeed": 1}}}	nPTZSpeed	0: Slow 1: High

Speed by Zoom

Set Speed By Zoom				
Command	Code	Command	Setting	
szCmd	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"ArmPtz": {"bSpeedByZoom": 0}}}	bSpeedByZoom	1: on	0: off

Image Freezing

Set Image Freezing			
Command	Code	Command	Setting
szCmd	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"ArmPtz": {"blImageFreezing": 0}}}	blImageFreezing	1: on 0: off

Low power mode

Set Low Power Mode				
Command	Code	Command	Setting	
szCmd	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"ArmPtz": {"emLowPowerMode": 0}}}	emLowPowerMode	2: on	3: off

Zoom Speed

Set Zoom Speed			
Command	Code	Command	Setting
szCmd	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"ArmPtz": {"nZoomSpeed": 0}}}	nZoomSpeed	0 - 7

Preset Pan Speed

Set Preset Pan Speed			
Command	Code	Command	Setting
szCmd	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"ArmPtz": {"nPresetPanSpeed": 0}}}	nPresetPanSpeed	0 - 24

Preset Tilt Speed

Set Preset Tilt Speed			
Command	Code	Command	Setting
szCmd	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"ArmPtz": {"nPresetTiltSpeed": 0}}}	nPresetTiltSpeed	0 - 20

Preset Zoom Speed

Set Preset Zoom Speed			
Command	Code	Command	Setting
szCmd	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"ArmPtz":{"nPresetZoomSpeed":0}}}	nPresetZoomSpeed	0 - 7

Focus Mode

Focus Mode Commands			
Focus Mode			
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stAF":{"emAFMode":3,"nChannel":0}}}}		
Command	Setting		
nChanel	0		
emAFMode	2: Auto		
	3: Manual		
	4 OnePush		
Zoom and focus			
Code	http://192.168.5.126/ajaxcom?szCmd={"SysCtrl":{"PtzCtrl":{"nChannel":0,"szPtzCmd":"zoomdec_start","byValue":0}}}		
Command	Setting	Function	Command
nChanel	0		
byValue	0		
szPtzCmd			
		Zoom add start	zoomadd_start
		Zoom add stop	zoomadd_stop
		Zoom decrease stop	zoomdec_start
		Zoom decrease stop	zoomdec_stop
		Focus add start	focusadd_start
		Focus add stop	focusadd_stop
		Focus decrease start	focusdec_start
		Focus decrease stop	focusdec_stop

Preset

Preset Commands			
Code	http://192.168.5.126/ajaxcom?szCmd={"SysCtrl":{"PtzCtrl":{"nChannel":0,"szPtzCmd":"preset_set","byValue":0}}}		
Command	Setting	Function	Command
nChanel	0s		
ByValue	0, 254		
szPtzCmd			
		Set preset	preset_set
		Call preset	preset_call

Preset Commands

		Clean preset	preset_clean
--	--	--------------	--------------

Audio

Audio Configure

Get audio configure

Code `http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"Audio":{}}}`

Set audio configure

Code `http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"Audio":{"nSampleBits":16,"nAudioSmstMask":[33554888,33554888,33554433],"bEnable":0,"nInpVolume":4,"nBitRate":64,"nAEncType":7,"byAudioCodecList":[6,7,2],"nSampleRate":44100,"nChannel":1}}}`

Function	Code	Command	Setting
Enable	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"Audio":{"bEnable":1}}}</code>	bEnable	0: off 1: on
Encode Type	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"Audio":{"nAEncType":7}}}</code>	nAEncType	6: Mp3AAC 7: G.711A 2:
Sample Rate	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"Audio":{"nSampleRate":32000}}}</code>	nSampleRate (Only supporting these sample rates and gyl1a can only be 8000.)	16000 32000 44100 48000
Sample Bits	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"Audio":{"nSampleBits":16}}}</code>	nSampleBits	16
Bit Rate	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"Audio":{"nBitRate":96}}}</code>	nBitRate	32 48 64 96 128
Channel	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"Audio":{"nChannel":2}}}</code>	nChannel	1: Mono 2: Stereo
Input Volume	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"Audio":{"nInpVolume":5}}}</code>	nInpVolume (range 1 to 10)	Exp:[1, 10]

Video

Video encoder

Video Encode

Get video encode parameters

Code `http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"VideoEncode":{"nChannel":1}}}`

Set video encode parameters

Code `http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stSlave":{"bylFrameMinQP":20,"bylImageQuality":1,"szStreamName":"live/av1","dwVideoCodecMask":160,"emBitRateCtrl":0,"bylImageSizeList":[26,7,9,27,4,5],"dwMaxBitRate":40960,"nFrameRate":25,"nMaxFrameRate":30,"emVideoCodec":5,"nFrameInterval":75,"emlImageSize":27,"nBitRate":512,"byProfile":2}, "stMaster":{"bylFrameMinQP":20,"bylImageQuality":0,"szStreamName":"live/av0","dwVideoCodecMask":160,"emBitRateCtrl":0,"bylImageSizeList":[5,4,9],"dwMaxBitRate":40960,"nFrameRate":25,"nMaxFrameRate":60,"emVideoCodec":5,"nFrameInterval":75,"emlImageSize":5,"nBitRate":4096,"byProfile":2},"nChannel":0}}}`

Video encode settings

Video Encode Settings			
Function	Code	Command	Setting
Compressed Format	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stMaster":{"emVideoCodec":5},"nChannel":0}}}</code>	emVideoCodec	5: H.264 7: H.265 (BP profile only)
Profile	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stMaster":{"byProfile":0},"nChannel":0}}}</code>	byProfile	0: BP 1: MP 2: HP
	<code>http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"VideoEncode":{"nChannel":1}}}</code> and receive its returning value. Compared to webpage and this, you can know the different value meaning different image size.	byImageSizeList (Lists all imagesize, different products have different image size)	
Image Size	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stMaster":{"emImageSize":4},"nChannel":0}}}</code>	emImageSize	5: 1920*1080 4: 1280*720 9: 640*480 27: 320*180 26: 640*360
Rate Control	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stMaster":{"emBitRateCtrl":1},"nChannel":0}}}</code>	emBitRateCtrl	0: CBR 1: VBR

Video Encode Settings			
Function	Code	Command	Setting
Image Quality	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stMaster":{"byImageQuality":5},"nChannel":0}}}</code>	byImageQuality	0: worst quality 1: between 2: between 3: between 4: between 5: Best quality
Bit Rate (kb/s)	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stMaster":{"dwMaxBitRate":200},"nChannel":0}}}</code>	dwMaxBitRate	[64, 40960]
Frame Rate (F/S)	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stMaster":{"nFrameRate":25},"nChannel":0}}}</code>	nFrameRate	[5, 60]
Frame Interval	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stMaster":{"nlFrameInterval":70},"nChannel":0}}}</code>	nlFrameInterval	[1, 300]
Frame Min QP	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stMaster":{"bylFrameMinQP":70},"nChannel":0}}}</code>	bylFrameMinQP	[10, 51]
Stream Name	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoEncode":{"stMaster":{"szStreamName":"live/av01"},"nChannel":0}}}</code>	szStreamName	user-defined

Video Streaming

Stream Publish			
Get stream publish parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"StreamPublish":{"nChannel":-1}}}		
Set stream publish parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"StreamPublish":{"stSlave":{"wHostPort":1935,"szHostUrl":"192.168.5.11", "nProtoType":2,"szStreamName":"live/av1","bEnable":0,"nAbProtolMask":1,"szSrtKey":"","wSrtKeyLen":0,"szUserName":"","szPassword":"","stMaster":{"wHostPort":1935, "szHostUrl":"192.168.5.11","nProtoType":3,"szStreamName":"live/av0","bEnable":0, "nAbProtolMask":1,"szSrtKey":"111111111","wSrtKeyLen":0,"szUserName":"","szPassword":"","nChannel":0}}}}}		
NOTE: When modifying one param, you should take along wHostPort. Otherwise, the host port will be zero.			
Function	Code	Command	Setting
Enable	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"StreamPublish":{"stMaster":{"wHostPort":1935,"bEnable":1,"nProtoType":3,"nChannel":0}}}}	bEnable	0: off 1: on
Protol Type		nProtoType	2: srt 3: rtmp
Host Address	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"StreamPublish":{"stMaster":{"wHostPort":1935,"nProtoType":3,"szHostUrl":"192.168.5.12"},"nChannel":0}}}}	szHostUrl	user-defined
Host Port	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"StreamPublish":{"stMaster":{"wHostPort":19355,"nProtoType":3,"nChannel":0}}}}	wHostPort	[0,65535]
Stream Name	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"StreamPublish":{"stMaster":{"wHostPort":19355,"nProtoType":3,"szStreamName":"live/1213"},"nChannel":0}}}}	szStreamName	user-defined
User Name	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"StreamPublish":{"stMaster":{"wHostPort":19355,"nProtoType":3,"szUserName":"123"},"nChannel":0}}}}	szUserName	user-defined
Password	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"StreamPublish":{"stMaster":{"wHostPort":19355,"nProtoType":3,"szPassword":"123"},"nChannel":0}}}}	szPassword	user-defined
SrtKey (SRT Effectie)	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"StreamPublish":{"stMaster":{"wHostPort":19355,"nProtoType":3,"szSrtKey":"0123456789"},"nChannel":0}}}}	szSrtKey	user-defined
SrtKeyLen (SRTEffectie)	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"StreamPublish":{"stMaster":{"wHostPort":19355,"nProtoType":3,"wSrtKeyLen":0},"nChannel":0}}}}	wSrtKeyLen	[0-32]

(RTP) Multicast Streaming

RTP Multicast	
Get rtp multicast parameters	
Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"StreamRTPMulticast":{"nChannel":-1}}}
Set rtp multicast parameters	
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"StreamRTPMulticast":{"stSlave":{"nProtoType":0,"bEnable":0,"wMultiCastPort":4002,"szMultiCastUrl":"224.1.2.3"},"stMaster":{"nProtoType":1,"bEnable":0,"wMultiCastPort":4000,"szMultiCastUrl":"224.1.2.3"},"nChannel":0}}}}

RTP Multicast

NOTE: When modifying one param you should take along bEnable and awMultiCastPort. Otherwise, it will be set to 0. Suggesting that when setting env, you can distinguish the stMaster and stSlave.

RTP Multicast Settings

RTP Multicast Settings			
Function	Code	Command	Setting
Enable	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"StreamRTPMulticast": {"stMaster": {"bEnable": 1, "wMultiCastPort": 4004}, "nChannel": 0}}}	bEnable	0: off 1: on
Protol Type	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"StreamRTPMulticast": {"stMaster": {"bEnable": 1, "nProtoType": 1, "wMultiCastPort": 4004}, "nChannel": 0}}}	nProtoType	0: RTP 1: TS
Multicast Address	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"StreamRTPMulticast": {"stMaster": {"bEnable": 0, "szMultiCastUrl": "224.1.2.23", "wMultiCastPort": 4004}, "nChannel": 0}}}	SzMultiCastUrl	224.0.0.0~255.255.255.0
Multicast Port	http://192.168.5.126/ajaxcom?szCmd={"SetEnv": {"StreamRTPMulticast": {"stMaster": {"bEnable": 1, "wMultiCastPort": 4004}, "nChannel": 0}}}	wMultiCastPort	Even [0, 65535]

Camera Settings

Video Parameters

Get video parameters

Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"VideoParam":{"nChannel":-1}}}
------	--

Set video parameters

Focus

Function	Code	Command	Setting
Focus Mode	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stAF":{"emAFMode":2},"nChannel":0}}}	emAFMode	2: Auto 3: Manual 4: OnePush
AF-Zone	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stAF":{"emAFZone":1},"nChannel":0}}}	emAFZone	0: Front Focus 1: Back Focus 2: Meeting 3: Education Tracking 4: Moving Objects 5: Center Focus
AF-Sensitivity	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stAF":{"nSensitivity":1},"nChannel":0}}}	nSensitivity	1: High 2: Middle 3: Low

Exposure

Camera Settings			
Exposure			

Camera Settings				
Mode	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"stExpMode":{"emExpMode":0},"nChannel":0}}}}	emExpMode	0: 3: 10: 11: 13:	Auto Manual SAE AAE Bright
Exposure: Auto				
EV	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"expcomp_mode":2,"nChannel":0}}}}	expcomp_mode	2: 3:	ON OFF
EV Level	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"expcomp":8,"nChannel":0}}}}	expcomp	[0, 14]	
BLC	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"backlight":2,"nChannel":0}}}}	backlight	2: 3:	ON OFF

Camera Settings				
Exposure: Auto				
Function	Code	Command	Setting	
Flicker	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"antiflicker":0,"nChannel":0}}}}	antiflicker	0: 1: 2:	OFF 50HZ 60HZ
G.Limit	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"gainLimit":5,"nChannel":0}}}}	gainLimit	[0, 15]	
DRC	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"drc":6,"nChannel":0}}}}	drc	[0, 8]	
Exposure: Manual				
shutter	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"stShutter":{"nShutter":16},"nChannel":0}}}}	nShutter	[0, 16]	
Iris	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"stIris":{"nIris":12},"nChannel":0}}}}	nIris	[0, 12]	
DRC	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"drc":8,"nChannel":0}}}}	drc	[0, 8]	
Exposure: SAE				
shutter	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"stShutter":{"nShutter":16},"nChannel":0}}}}	nShutter	[0, 16]	
DRC	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stExp":{"drc":7,"nChannel":0}}}}	drc	[0, 8]	

Camera Settings				
Exposure: AEE				
Flicker	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":[{"stExp":{"antiflicker":0,"nChannel":0}}]}}	Antiflicker	0: 1: 2:	OFF 50HZ 60HZ
G.Limit	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":[{"stExp":{"gainLimit":5,"nChannel":0}}]}}	gainLimit	[0, 15]	
Iris	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":[{"stExp":{"stIris":{"nlris":12},"nChannel":0}}]}}	nlris	[0, 12]	
DRC	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":[{"stExp":{"drc":6,"nChannel":0}}]}}	drc	[0, 8]	
Exposure: Bright				
Bright	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":[{"stExp":{"bright":0},"nChannel":0}}]}}	bright	[0, 23]	
Flicker, G.Limit, DRC	You can find the same configure at AAE			

Color and Image

Camera Settings				
Color				
Function	Code	Command	Setting	
WB Mode	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stColor":{"emWbMode":0},"nChannel":0}}}}	emWbMode	0: Auto 1: 3000K 7: 3500K 2: 4000K 8: 4500K 4: 5000K	9: 5500K 10: 6000K 6: 6500K 11: 7000K 5: Manual 3: OnePush
RG Tuning	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stColor":{"rgaintuning":0},"nChannel":0}}}}	rgaintuning	[0, 20]	
BG Tuning	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stColor":{"bgaintuning":20},"nChannel":0}}}}	bgaintuning	[0, 20]	
Saturation	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stColor":{"saturation":0},"nChannel":0}}}}	saturation	[0, 14]	
Hue	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stColor":{"hue":14},"nChannel":0}}}}	hue	[0, 14]	
AWB Sensitivity	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stColor":{"awbsens":0},"nChannel":0}}}}	awbsens	0: 1: 2:	Low Middle High
Image				

Camera Settings				
Bright	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stlmg":{"luminance":0},"nChannel":0}}}}	luminance	[0, 4]	
Contrast	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stlmg":{"contrast":0},"nChannel":0}}}}	contrast	[0, 14]	
Sharpness	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stlmg":{"sharpness":1},"nChannel":0}}}}	sharpness	[0, 15]	
Gamma	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stlmg":{"gamma":0},"nChannel":0}}}}	gamma	[0, 4]	0: 3: 0.55 Default 4: 0.63 1: 0.45 2: 0.50
DCI	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stlmg":{"dci":0},"nChannel":0}}}}	dci	[0, 8] 0:	OFF
B&W Mode	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stlmg":{"nBWMode":0},"nChannel":0}}}}	nBWMode	0: 4:	Color B & W
Flip-H	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stlmg":{"nFlipH":3},"nChannel":0}}}}	nFlipH	2: 3:	ON OFF

Camera Settings				
Image				
Function	Code	Command	Setting	
Flip-V	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stlmg":{"nFlipV":2},"nChannel":0}}}}	nFlipV	2: 3:	ON OFF
AutoFlip	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stlmg":{"nAutoFlipV":2},"nChannel":0}}}}	nAutoFlipV		ON OFF
DZoom	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stlmg":{"nEZoom":3},"nChannel":0}}}}	nEZoom	2: 3:	ON OFF

Noise Reduction

Camera Settings				
Function	Code	Command	Setting	
NR-2D	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stNR":{"noise2D":0},"nChannel":0}}}}	noise2D	[0, 8]	
NR-3D	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stNR":{"noise3D":0},"nChannel":0}}}}	noise3D	[0, 8]	0: OFF 8: Auto
Dynamic Hot Pixel	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stNR":{"dhotpixel":3},"nChannel":0}}}}	dhotpixel	[0, 5]	0: OFF
Style	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoParam":{"stColor":{"nStyleInx":0},"nChannel":0}}}}	nStyleInx	[0, 4]	0: Default 1: Normal 2: Clarity 3: Bright 4: Soft

Video OSD

Video OSD	
Get video parameters	
Code	<code>http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"VideoOsd":{"nChannel":-1}}}</code>
Set set video parameters	
Code	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoOsd":{"stTime":{"bEnable":1,"nIndex":0,"nXPos":0,"szText":"","nYPos":10000,"stFtColor":{"byAlpha":128,"byRed":255,"byGreen":255,"byBlue":255},"stBkColor":{"byAlpha":0,"byRed":0,"byGreen":0,"byBlue":0},"stTitle":{"bEnable":0,"nIndex":0,"nXPos":0,"szText":"","nYPos":0,"stFtColor":{"byAlpha":128,"byRed":255,"byGreen":255,"byBlue":255},"stBkColor":{"byAlpha":0,"byRed":0,"byGreen":0,"byBlue":0},"nChannel":0}}}}</code>
NOTE: All params can be saved by this command and also you can set one param alone.	

Function	Code	Command	Setting
Show Time	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoOsd":{"stTime":{"bEnable":1,"nChannel":0}}}}</code>	bEnable	0: Not show 1: Show
Show Title	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoOsd":{"stTitle":{"bEnable":1,"nChannel":0}}}}</code>	bEnable	0: Not Show 1: Show

Video OSD			
Set video parameters			
Function	Code	Command	Setting
Time FontColor	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoOsd":{"stTime":{"stFtColor":{"byAlpha":128,"byRed":255,"byGreen":255,"byBlue":0},"nChannel":0}}}}</code>	byAlpha	128
		white	rgb (255,255,255)
		black	rgb (0,0,0)
		yellow	rgb (255,255,0)
		red	rgb (255,0,0)
		blue	rgb (0,0,255)
Title FontColor	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoOsd":{"stTitle":{"stFtColor":{"byAlpha":128,"byRed":255,"byGreen":255,"byBlue":0},"nChannel":0}}}}</code>	byAlpha	128
		white	rgb (255,255,255)
		black	rgb (0,0,0)
		yellow	rgb (255,255,0)
		red	rgb (255,0,0)
		blue	rgb (0,0,255)
OSD Offsetx pos	Time: <code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoOsd":{"stTime":{"nXPos":9200,"nChannel":0}}}}</code>	nXPos	[0, 10000]
OSD Offsetx pos	Title: <code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoOsd":{"stTitle":{"nXPos":9200,"nChannel":0}}}}</code>	nXPos	[0, 10000]
OSD Offsets pos	Time: <code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoOsd":{"stTime":{"nYPos":1200,"nChannel":0}}}}</code>	nYPos	[0, 10000]
	Title: <code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoOsd":{"stTitle":{"nYPos":1200,"nChannel":0}}}}</code>		

OSD Font Size			
Get OSD font size parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"TTFontSize":{"nChannel":-1}}}		
Set video parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"TTFontSize":{"nFontSize":[48,48],"bAutoSize":1}}}		
Function	Code	Command	Setting
		bAutoSize	0: off,1: on
		nFontSize	[8,200]

Output Format

(Video) Output Format

Get video out parameters				
Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"VideoOut":{"nChannel":-1}}}			
Set video out parameters				
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"VideoOut":{"nNetMode":2,"emVoutFormat":9,"byFormatList":[10,9,4,3,8,7,6,5,26,25,20,21,22,23,24]}}}			
Function	Code	Command	Setting	
		nNetMode: default value 2, do not modify it	– HD output – HD output + SD network – SD output + HD network	
		emVoutFormat: Setting the current video out format.	10: 9: 4: 3:	1080P60 1080P50 1080P30 1080P25
			8:	1080I60
			7:	1080I50
			6:	720P60
			5:	720P50
			26:	720P30
			25:	720P25
			20:	1080P59.94
			21:	1080I59.94
			22:	1080P29.97
			23:	720P59.94
			24:	720P29.97

SRT

SRT			
Get network SRT parameters			

SRT			
Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"NetWork":{"nChannel":-1}}}		
Set network SRT parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stSrt":{"wSrtLen":0,"wSrtPort":9000,"szSrtPin":"xxxxxxxxx"}}}}		
Function	Code	Command	Setting
crypto key length in bytes		wSrtLen	[0-32]
Port SRT		wSrtPort	Default 9000
Password stream encryption		szSrtPin	user-defined

Network

Network configure and port settings

Network Configure and port settings

Network Configure			
Get network port parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"NetWork":{"nChannel":-1}}}		
Set network port parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stNetPort":{"wPortSoap":1936,"wPortData":3000,"wPortWeb":80,"wPortRtsp":554,"wPortVisca":1259,"wPortOnvif":2000,"wPortRtmp":1935}}}}		
	You can also set one of these parameters like this: http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stNetPort":{"wPortSoap":1936}}}}		
Port Settings			
Function	Code	Command	Setting
Port Data		wPortData	[0, 65535]
Port Web		wPortWeb	[0, 65535]
Port Onvif		wPortOnvif	[0, 65535]
Port Soap		wPortSoap	[0, 65535]
Port Rtmp		wPortRtmp	[0, 65535]
Port Rtsp		wPortRtsp	[0, 65535]
Port Visca		wPortVisca	[0, 65535]

Ethernet

Ethernet			
Get Ethernet parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"NetWork":{"nChannel":-1}}}		
Set Ethernet parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stEth":{"byValid":5,"szIPAddr":"192.168.5.126","szSubMask":"255.255.255.0","szMacAddr":"E4:77:D4:01:8A:49","szGateway":"192.168.5.1","bDefault":1}}}}}		
Function	Code	Command	Setting

Ethernet			
DHCP	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stEth":{"byValid":5}}}}</code>	byValid	5:off 7:on
IP Address	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stEth":{"szIPAddr":"192.168.5.127"}}}}</code>		
Subnet Mask	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stEth":{"szSubMask":"255.255.255.0"}}}}</code>		
Default Gateway	<code>http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stEth":{"szGateway":"192.168.5.1"}}}}</code>		

DNS

DNS			
Get dns parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"NetWork":{"nChannel":-1}}}		
Set dns parameters			
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stDns":{"szDns1":"8.8.8.8","szDns2":"0.0.0.0"}}}}		
Function	Code	Command	Setting
Preferred DNS Server	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stDns":{"szDns1":"8.8.8.8"}}}}		
Alternative DNS Server	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"NetWork":{"stDns":{"szDns2":"8.8.8.8"}}}}		

System

System Configure				
Get sysattr parameters				
Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"SysAttr":{"nChannel":-1}}}			
Set sysattr parameters				
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysAttr":{"nLanguage":0,"szDeviceID":1,"emVideoStandard":1,"szDevName":"testname"}}}			
Function	Code	Command	Setting	
Device Name		szDevName	user-defined, cannot use white space	
Device ID		szDeviceID	cannot modify	
Language		nLanguage	0: Simplified Chinese	2: English

License

License	
Get License parameters	
Code	http://192.168.5.126/ajaxcom?szCmd={"QueryState":{"QueryLicenseState":{}}}
Set License parameters	
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"LicenseKey":{"bLicenseEnable":0,"szKeyText":"483B4EB1D0"}}

Time

SysTime			
Get system time parameters			

SysTime	
Code	http://192.168.5.126/ajaxcom?szCmd={"QueryState":{"QuerySysTime":{}}}
Set system time parameters	
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysTime":{"nDateSprtr":2,"nDateFormat":0,"nZone":1,"nHourType":0,"stNtp":{"bEnable":1,"nHostPort":123,"nUpdateInterval":2,"szHostUrl":"ntp4.aliyun.com"}}}}

Function	Code	Command	Setting
Date Format	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysTime":{"nDateFormat":0}}}	nDateFormat	0: YYYY-MM-DD 1: MM-DD-YYYY 2: DD-MM-YYYY
Date Sprtr	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysTime":{"nDateSprtr":0}}}	nDateSprtr	0: . 1: - 2: /

SysTime			
Function	Code	Command	Setting
Zone	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysTime":{"nZone":0}}}	nZone	[0, 32] 5: GMT+04:00 0: GMT 6: GMT+04:30 1: GMT+01:00 7: GMT+05:00 2: GMT+02:00 13: GMT+08:00 3: GMT+03:00 20: GMT-01:00 4: GMT+03:30 31: GMT-11:00 32: GMT-12:00

SysTime			
Hour Type	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysTime":{"nHourType":0}}}	nHourType	0: 24 Hours 1: 12 Hours
NTP Enable	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysTime":{"stNtp":{"bEnable":1}}}}	bEnable	0: off 1: on
Update Interval	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysTime":{"stNtp":{"nUpdateInterval":2}}}}	nUpdateInterval	[1, 10]
Host URL	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysTime":{"stNtp":{"szHostUrl":"time.nist.gov"}}}}	szHostUrl	user-defined, ntp server address
Host Port	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysTime":{"stNtp":{"nHostPort":123}}}}	nHostPort	user-defined: [0, 65535]
Time Settings	http://192.168.5.126/ajaxcom?szCmd={"SysCtrl":{"SetTime":{"bTimeType":1,"nZone":19,"stDateTime":{"dwYear":2018,"byHour":15,"byMinute":38,"byDay":1,"byMonth":11,"bySecond":2}}}}		Synchronize with computer time or set manual:
Synchronize NTP Server	http://192.168.5.126/ajaxcom?szCmd={"SysCtrl":{"SyncNtp":""}}		

User

SysUser	
Get sysuser parameters	

SysUser				
Code	http://192.168.5.126/ajaxcom?szCmd={"GetEnv":{"SysUser":{}}}			
Set sysuser parameters				
Code	http://192.168.5.126/ajaxcom?szCmd={"SetEnv":{"SysUser":{"stUsers":[{"nUserType":0,"szUserName":"admin","szPassword":"admin"}, {"nUserType":1,"szUserName":"user1","szPassword":"user1"}, {"nUserType":1,"szUserName":"user2","szPassword":"user2"}]}}			
Function	Code	Command	Setting	
Authority		nUserType	0: admin	1: user1 or user 2
User Name		szUserName	user-defined: no white space	
Password		szPassword	user-defined, no white space. This command must set three users at the same time.	

Update

Update	
Get update parameters	
Code	http://192.168.5.126/ajaxcom?szCmd={"QueryState":{"QueryVersion":{}}}
Code	Get the return value and split it like this: szText.Format("%d.%d.%d-%d-%d", (stVersion.dwCamVersion>>16)&0xFF, (stVersion.dwCamVersion>>8)&0xFF, (stVersion.dwCamVersion&0xFF), (stVersion.dwCamDate>>16)&0xFFFF, (stVersion.dwCamDate>>8)&0xFF, (stVersion.dwCamDate&0xFF));
Set update parameters	Not supported update with API, you can do this through webpage.

Default and Reboot

Default	
Code	http://192.168.5.126/ajaxcom?szCmd={"SysCtrl":{"Default":{}}}
Reboot	
Code	http://192.168.5.126/ajaxcom?szCmd={"SysCtrl":{"Reboot":{}}}



The URL supports to set all params at one time and also can set one of them through split URL into one other command. Different commands can be found at different settings.



HTTP API for CM70-IP series
CM70-IP • CM71-IP • CM73-IP

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