

HTTP API

Vacron VIG 5MP IPCam

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Revision Record

Date	Revision Version	Session Number	Change Description
2014-26-Jun	1.0		First Release
2014-05-Nov	1.1		Add alarm

Video Stream and Syntax

- HTTP authentication method
Digest or Basic.

- Video Stream:

- HTTP Stream

- HTTP mainstream `http://<ipcam:http_port>/video0.m4v`
Response: HTTP multipart video frames

Example: <http://192.168.1.221/video0.m4v>

- HTTP substream `http://<ipcam:http_port>/video1.m4v`
Example: <http://192.168.1.221/video1.m4v>

- HTTP Headers

Video Multipart:

Name	Value
Content-Type	video/h264
X-Tag	serial no
X-Alarm	1:Motion 2:Input1 4:Input2
X-Framerate	frame rate
X-Resolution	resolution
X-Time	time, second
X-PTS	time, microsecond

- RTSP Stream

- RTSP mainstream `rtsp://<ipcam>/video0.sdp`
Example: `rtsp://192.168.1.221/video0.sdp`

- RTSP substream `rtsp://<ipcam>/video1.sdp`
Example: `rtsp://192.168.1.221/video1.sdp`

- Get snapshot:

- Snapshot of mainstream:

Syntax: http://<ipcam:http_port>/ipcam/jpeg

Response: JPEG

Example: <http://192.168.1.221/ipcam/jpeg>

- Snapshot of substream:

Syntax: http://<ipcam:http_port>/ipcam/jpegcif

Response: JPEG

Example: <http://192.168.1.221/ipcam/jpegcif>

- Set Parameter

Syntax: http://<ipcam:http_port>/vb.htm?parameter=value

Response: OK parameter

Example: <http://192.168.1.221/vb.htm?wantype=1>

OK wantype

- Get Parameter value

Syntax: http://<ipcam:http_port>/vb.htm?parameter

Response: OK parameter=value

Example: <http://192.168.1.221/vb.htm?wantype>

OK wantype=1

- Set multi-parameters in a single request

Syntax: http://<ipcam:http_port>/vb.htm?prmt=value1&prmt=value2&prmt=value3...

Response: OK prmt1 OK prmt2 OK prmt3

Example:

<http://192.168.1.221/vb.htm?wantype=1&netip=10.10.10.1&netmask=255.255.0.0&gateway=10.10.1.254>

OK wantype OK netip OK netmask OK gateway

- Get multi-parameters value in a single request

Syntax: http://<ipcam:http_port>/vb.htm?prmt1&prmt2&prmt3...

Response: OK prmt1=value1 OK prmt2=value2 OK prmt3=value3

Example: <http://192.168.1.221/vb.htm?VideoResolution1&framerate1&bitrate1>

OK VideoResolution1=720P OK framerate1=24 OK bitrate1=3000

- Event notification over HTTP including motion detection and wire input alarm.

Syntax: http://<ipcam:http_port>/event.cgi

Response: IPCam keeps sending continous HTTP multipart contents every 2 seconds.

Name	Value	Description
md	0: off 1: on	Event motion detection is triggered or not.
input1	0: off 1: on	Event input 1 is triggered or not.
input2	0: off 1: on	Event input 2 is triggered or not.

Example: <http://192.168.1.221/event.cgi>

- Get device information.

Syntax: http://<ipcam:http_port>/vb.htm?DeviceInfo

Network

GUI Item	SDK Parameter	Value	Remark
WAN Type	wantype	1: Static IP 2: DHCP	
Hostname	dhcphostname		
MTU (DHCP)	mtu2		
IP Address	netip		
Subnet Mask	netmask		
Default gateway IP	gateway		
MTU (Static IP)	mtu1		
Primary DNS Server	dnsip		
Secondary DNS Server	dnsip2		

Video

GUI Item	SDK Parameter	Value	Remark
Camera	title	Upto 11 characters	
Video Source	videosource	0: 5MP 1: 1080P	
Stream 1			
Resolution	VideoResolution1	5MP: 2560x1920 3MP: 2048x1536 1080P: 1920x1080 SXGA: 1280x1024 720P: 1280x720 VGA: 640x480 SIF: 352x240	Depends on Video Source.
Framerate	framerate1	1-30	
GOP	VideoGop1	8-40	
Rate Control	ratecontrol1	1: VBR 2: CBR	
Bit Rate	bitrate1	Unit: Kbps	
Date	datestampenable1	0: Disable 1: Enable	
Stream2			
Resolution	VideoResolution2	VGA: 640x480 270P: 480x270 SIF: 352x240	
Framerate	framerate2	1-30	
GOP	VideoGop2	8-40	
Rate Control	ratecontrol2	1: VBR 2: CBR	
Bit Rate	bitrate2	Unit: Kbps	
Date	datestampenable1	0: Disable 1: Enable	
Text	textenable1	0: Bottom Left 1: Bottom Right	
Text Content	overlaytext1	Upto 20 characters	
Mirror	mirctrl	0: OFF 1: HORIZONTAL 2: VERTICAL 3: BOTH	

Example:

格式化表格

<http://192.168.1.221/vb.htm?VideoResolution1=SXGA&framerate1=24&bitrate1=6144&datestampenable1=1>

Camera

GUI Item	SDK Parameter	Value	Remark
Brightness	brightness	0-255	
Contrast	contrast	0-255	
Saturation	saturation	0-255	

Date Time

GUI Item	SDK Parameter	Value	Remark
Synchroize with Time Servers	ntpenable	0: Disable 1: Enable	
SNTP Server	sntpip	FQDN or IP of NTP Server	
Time Zone	timezone	0: +0 60: +1 120: +2 180: +3 240: +4 300: +5 360: +6 420: +7 480: +8 540: +9 600: +10 660: +11 720: +12 -60: -1 -120: -2 -180: -3 -240: -4 -300: -5 -360: -6 -420: -7 -480: -8 -540: -9 -600: -10 -660: -11 -720: -12	+
	newdate	yyyy/mm/dd Example: 2212/07/04	Set Date/Time with assigned value to IPCam
	newtime	hh:mm:ss Example: 13:10:30	

Network Protocol

GUI Item	SDK Parameter	Value	Remark
HTTP Port	httpport	1-65535	
RTSP Port	rtspport	1-65535	
Sync With NVR	SyncWithNvr	0: Disable 1: Enable	If this option is set to be "0" that the IP Camera will not accept other HTTP API command anymore until you enable this option from web GUI.

Account

GUI Item	SDK Parameter	Value	Remark
Admin Username	adminid	Upto 30 characters	
Password	adminpwd	Upto 16 characters	
Operator username	operatorid	Upto 30 characters	
Password	operatorpwd	Upto 16 characters	
Viewer Username	viewerid	Upto 30 characters	
Password	viewerpwd	Upto 16 characters	

Restart

GUI Item	SDK Parameter		Remark
Restart	ipcamrestartcmd	Restart IPCam Please send this command later than 10 seconds after you send the last setting command.	

Alarm

GUI Item	SDK Parameter	Value	Remark
External Triggers	extalarm	0: Disable 1: Enable	
Input1	exttrigger1input	0: Disable 1: Enable	
Input2	exttrigger2input	0: Disable 1: Enable	
Output1	exttrigger1output	0: Disable 1: Enable	

Motion Detection

GUI Item	SDK Parameter	Value	Remark
Motion Detection	motionenable	0: Disable 1: Enable	-
(Sensitivity Mode -- Radio Button)	motioncenable	0: Drop Down Menu 1: Customized Threshold	
Sensitivity	motionsensitivity	0: Low 1: Medium 2: High	
Customized Threshold	motioncvalue	0-100	
(Detecting Block)	motionblock192	Hex format row by low Example: FFFF,8001,8001,8001,8001,8001,8001,8001,8001,8001,8001,FFFF This value marks 4 edges of the video.	