

HTTP API

Vacron VIT 6Series

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Revision Record

Date	Revision Version	Session Number	Change Description
2012-7-12	1.0	First Release	Supported Device: VIT 6Series FW: 2.0.1_B290

Video Stream and Syntax

- Video Stream:

- H.264 over HTTP `http://<ipcam:http_port>/ipcam/avc.m4v`

Example: `http://192.168.1.201/ipcam/avc/m4v`

- RTSP main stream `rtsp://<ipcam:554>/PSIA/Streaming/channels/0`

Example: `rtsp://192.168.1.201:554/PSIA/Streaming/channels/0`

- RTSP second stream `rtsp://<ipcam:554>/PSIA/Streaming/channels/1`

Example: `rtsp://192.168.1.201:554/PSIA/Streaming/channels/1`

- HTTP authentication method

Basic only

- Set Parameter

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

Response: OK parameter

Example: `http://192.168.1.201/vb.htm?wantype=1`

OK wantype

- Get Parameter value

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

Response: OK parameter=value

Example: `http://192.168.1.201/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://192.168.1.201/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://192.168.1.201/vb.htm?videocodec&videocodeccombo&videocodecres`

OK videocodec=0 OK videocodeccombo=0 OK videocodecres=3

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	dns2		

Video

GUI Item	SDK Parameter	Value	Remark
Camera	title	Upto 11 characters	
Stream Type	videocodec	0: Single 1: Dual 2: Tri_Stream	Refer to Resolution Combo table
Codec	videocodeccombo	Refer to Resolution Combo table	
Resolution	videocodecres	Refer to Resolution Combo table	
Stream 1			
Framerate	framerate1	Refer to Framerate table	
Bit Rate	bitrate1	Unit: Kbps	
Rate Control	ratecontrol1	0: OFF 1: VBR 2: CBR	
Date	datestampenable1	0: Disable 1: Enable	
Position	dateposition	0: Bottom Left 1: Bottom Right	
Format	dateformat	0: YYYY/MM/DD 1: MM/DD/YYYY 2: DD/MM/YYYY	
Time	timestampenable1	0: Disable 1: Enable	
Position	timeposition	0: Bottom Left 1: Bottom Right	
Format	timeformat	0: 12Hrs 1: 24Hrs	
Text	textenable1	0: Bottom Left 1: Bottom Right	
Position	textposition1	0: Top-Left 1: Top-Right	
Text Content	overlaytext1	Upto 20 characters	
Stream2			
Framerate	framerate2	Refer to Framerate table	
Bit Rate	bitrate2	Unit: Kbps	

Rate Control	ratecontrol2	0: OFF 1: VBR 2: CBR	
Quality Factor	livequality	3-99	
Date	datestampenable2	0: Disable 1: Enable	
Time	timestampenable2	0: Disable 1: Enable	
Text	textenable2	0: Disable 1: Enable	
Position	textposition2	0: Top-Left 1: Top-Right	
Text Content	overlaytext2	Upto 20 characters	
Stream3			
Framerate	framerate3	Refer to Framerate table	
Bit Rate	bitrate3	Unit: Kbps	
Rate Control	ratecontrol3	0: OFF 1: VBR 2: CBR	
Date	datestampenable3	0: Disable 1: Enable	
Time	timestampenable3	0: Disable 1: Enable	
Text	textenable3	0: Disable 1: Enable	
Position	textposition3	0: Top-Left 1: Top-Right	
Text Content	overlaytext3	Upto 20 characters	
Local Display Video	localdisplay	0: OFF 1: NTSC 2: PAL	
Mirror	mirctrl	0: OFF 1: HORIZONTAL 2: VERTICAL 3: ALL	

Resolution Combo:

1) Single Stream mode: [\[videocodec=0\]](#)

Codec	Selectable resolution
H.264 [videocodeccombo=0]	H264:720 - [videocodecres=0] H264:D1 - [videocodecres=1] H264:SXVGA - [videocodecres=2] *H264:1080 - [videocodecres=3] H264:720MAX60 - [videocodecres=4]
MPEG4 [videocodeccombo=1]	MPEG4:720 - [videocodecres=0] MPEG4:D1 - [videocodecres=1] MPEG4:SXVGA - [videocodecres=2] MPEG4:1080 - [videocodecres=3] MPEG4:720MAX60- [videocodecres=4]
MegaPixel [videocodeccombo=2]	H264:2MP - [videocodecres=0] JPG:2MP - [videocodecres=1] H264:3MP - [videocodecres=2] JPG:3MP - [videocodecres=3] H264:5MP - [videocodecres=4] JPG:5MP - [videocodecres=5]

Example: Set IPCam to be H264@1080P single stream –

[\[http://192.168.1.201/vb.htm?videocodec=0&videocodeccombo=0&videocodecres=3\]](http://192.168.1.201/vb.htm?videocodec=0&videocodeccombo=0&videocodecres=3)

2) Dual Streams mode: [\[videocodec=1\]](#)

Codec	Selectable resolution
H.264+JPEG [videocodeccombo=0]	H264:720 +JPEG:VGA - [videocodecres=0] H264:D1+JPEG:D1 - [videocodecres=1] H264:720+JPEG:720 - [videocodecres=2]
MPEG4+JPEG [videocodeccombo=1]	MPEG4:720 +JPEG:VGA - [videocodecres=0] MPEG4:D1+JPEG:D1 - [videocodecres=1] MPEG4:720+JPEG:720 - [videocodecres=2]
Dual H.264 [videocodeccombo=2]	H264:720+H264:QVGA - [videocodecres=0] H264:D1+H264:D1 - [videocodecres=1] H264:D1+H264:QVGA - [videocodecres=2] *H264:1080+H264:QVGA - [videocodecres=3]
Dual MPEG4	MPEG4:720+MPEG4:QVGA - [videocodecres=0]

[videocodecombo=3]	MPEG4:D1+MPEG4:D1 - [videocodecres=1] MPEG4:D1+MPEG4:QVGA - [videocodecres=2] MPEG4:1080+MPEG4:QVGA - [videocodecres=3]
H.264+MPEG4 [videocodecombo=4]	H264:D1+MPEG4:D1 - [videocodecres=0]

Example: Set IPCam to be H264@ H264:1080+H264:QVGA Dual stream –

[\[http://192.168.1.201/vb.htm?videocodec=1&videocodecombo=2&videocodecres=3\]](http://192.168.1.201/vb.htm?videocodec=1&videocodecombo=2&videocodecres=3)

3)Triple Streams mode: [\[videocodec=2\]](#)

Codec	Selectable resolution
Dual H264+JPEG [videocodecombo=0]	*H264:720+JPEG:VGA+H264:QVGA [videocodecres=0]
Dual MPEG4+JPEG [videocodecombo=1]	MPEG4:720+JPEG:VGA+MPEG4:QVGA [videocodecres=0]

Example: Set IPCam to be H264:720+JPEG:VGA+H264:QVGA Tri- stream –

[\[http://192.168.1.201/vb.htm?videocodec=3&videocodecombo=0&videocodecres=0\]](http://192.168.1.201/vb.htm?videocodec=3&videocodecombo=0&videocodecres=0)

Framerate:

Resolution	Value
720/D1/VGA/SXVGA/2MP/QVGA	0: 30 1: 24 2: 15 3: 8
1080/ [QVGA @Dual Stream 1080+QVGA]	0: 23 1: 15 2: 8
720MAX60/5MP	0: Auto
3MP	0: 15 1: 8

Camera

GUI Item	SDK Parameter	Value	Remark
Brightness	brightness	0-255	
Contrast	contrast	0-255	
Saturation	saturation	0-255	
Sharpness	sharpness	0-255	
Back Light Compensation	blc	0: OFF 1: ON	
Backlight	backlight	0: Min 1: Mid 2: Max	
Dynamic Range Enhancement	dynrange	0: None 1: Low Global 2: Medium Global 3: High Global 4: Low Local 5: Medium Local 6: High Local	
Flicker Control	flickerctrl	0: 60Hz 1: 50Hz	
Mode	daynight	0: Day 1: Night	
Video Stabilization	videostb	0: OFF 1: ON	
Lens Distortion Correction	lensdictcorrect	0: OFF 1: ON	
Image Sensor Mode	imgsensormode	0: BINNING 1: SKIPPING 2: WINDOW	
2A Engine	img2a	0: NONE 1: APPRO 2: TI	
2A Mode	img2atype	0: OFF 1: Auto Exposure 2: Auto White Balance 3: Auto Exposure + Auto Wite Balance	
Spatial Filter (SNF)	snfmode	0: OFF 1: ON	
Temporal Filter (TNF)	tnfmode	0: OFF 1: ON	

Audio

GUI Item	SDK Parameter	Value	Remark
Enable Audio	audioenable	0: Disable 1: Enable	
Audio Mode	audiomode	0: Only Mic(IPCam to PC/NVR) 1: Only Speaker 2: Both Mic & Speaker	
Input Gain	audioinvolume	0-100	
Encoding	audioencoding	0: G.711 1: AAC-LC	
Sample Rate	audiosamplerate	0: 8KHz 1: 16KHz	
Alarm Level	audioalarmlevel	0-100	
Output Level	audiooutvolume	0-100	

Date Time

GUI Item	SDK Parameter	Value		Remark
Synchrize 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: 2012/07/04		Set Date/Time with assigned value to IPCam
	newtime	hh:mm:ss Example: 13:10:30		

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	
HTTP Port	httpport	1-65535	

Restart

GUI Item	SDK Parameter		Remark
Restart	ipcamrestartcmd	Restart IPCam Please send this command later than 20 seconds after you send the last setting command.	

PTZ

GUI Item	SDK Parameter	Value	Remark
Protocol	ptzprotocol	0: OFF 1: PelcoP 2: PelcoD	
Device ID	ptzaddr	0-3	
Baud Rate	ptzbaud	0: 1200 1: 2400 2: 4800 3: 9600 4: 19200	
PTZ Speed	ptzspeed	0-23	
	ptzpreset ipncptz=14	>=1	PTZ preset location
	ptzpreset ipncptz=17	>=1	Allocate to a preset location.
	ptzpreset ipncptz=15	>=1	Clear a PTZ preset location
	ipncptz	16	Clear all preset location
	ipncptz	0: STOP 1: LEFT 2: RIGHT 3: UP 4: DOWN 5: IRISDEC 6: IRISINC 7: ZOOMDEC 8: ZOOMINC 9: FOCUSDEC 10: FOCUSINC 21: LEFT UP 22: LEFT DOWN 23: RIGHT UP 24: RIGHT DOWN	Move PTZ

Example:

Preset location #1 - <http://192.168.1.201/vb.htm?ptzpreset=1&ipncptz=14>

Allocate to location #1 - <http://192.168.1.201/vb.htm?ptzpreset=1&ipncptz=17>

Clear preset location #1 - <http://192.168.1.201/vb.htm?ptzpreset=1&ipncptz=15>