

**DSE RK NVR DVR CGI API
Programming User Manual**

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1. Log in

http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...

<parameter>=<value>	Values	description
setloginpro		
setlogin=<string>		user
setloginip=<string>		Log in IP

example:

http://admin:1@172.18.193.236/vb.htm?setloginpro&setlogin=admin&setloginip=172.18.193.236

2. Device Information

http://<servername>/ini.htm
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...

<parameter>=<value>	Values	description
setuser=<string>		User name
setdevname=<string>		Device Name
setlanguage=<int>	0-20	Language Setting

setrecyclerecord=<int>	0	Reocrd Pattern 0: Cover
setdrvid=<int>	0-5	Record Days 0: No limit 1: 15 2: 10 3: 7 4: 5 5: 1
setvideomode=<int>	0,1	Video standard 0: PAL 1: NTSC
setresolution=<int>	0,1,2,3	Resolution, differnt models may have difference 0: 1280x720 1: 1280x1024 2: 1920x1080 3: 3840x2160
setstandbytime=<int>		Standby time (Min)

example:

```
http://172.18.193.236/ini.htm
http://172.18.193.236/vb.htm?setuser=admin&setdevname=NVR&setlanguage=1&setrecyclerecord=0&setdrvid=0&setvideomode=0&setvideomode=0&setresolution=2&setstandbytime=0
```

3. Add Device

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<i><parameter> = <value></i>	Values	description
searchcamera= <int>	2,4,5,6	Device search 2: Onvif 4: Private 5: Onvif and Private 6: Multi net segment
setchannelnum= <int> getchannelnum= <int> getchanno= <int>	0,1, 2...	Choose the channel
setchanenable= <int> getchanenable= <int>	0,1	Channel enable 0: close 1: open
setchanstream= <int> getchanstream= <int>	0,1	Preview stream 0: main stream 1: sub stream
setchandeviceip= <string> getchandeviceip		IPAddress
setchandeviceport= <int> getchandeviceport= <int>		port
setchanusername= <string> getchanusername= <string>		User name
setchanuserpwd= <string> getchanuserpwd= <string>		password
setchanmanprotocoltype= <int> getchanmanprotocoltype= <int>	2,3,4	Proctocl 2: ONVIF 3: RTSP 4: Private
setchanrtspmainurl= <string>		Mian stream RTSP
setchanrtspsuburl= <string>		Sub-stream RTSP
setchanisdomain= <int>	0,1	Whether add IP 0: no

		1: yes
setchandedomain= < string>		IPaddress
setchanceprotocol= < int> > getchanceprotocol= < int> >		Synchronize IPC protocol
getchance= < string>		

example:

```
http://172.18.193.236/vb.htm?setchannelnum=1&setchanenable=0&setchanstream=1&setchanceip=172.18.198.204&setchanceport=80&setchanusername=admin&setchanuserpwd=admin123&setchanmanprotocoltype=4&setchanrtspmainurl=cnRzcDovLzE5Mi4xNjguMS4xNjg6NTU0LzA!&setchanrtspsuburl=cnRzcDovLzE5Mi4xNjguMS4xNjg6NTU0LzE!&setchanisdomain=0&setchandedomain=&setchanceprotocol=0
```

```
http://172.18.193.236/vb.htm?getchannelnum=1&getchanenable&getchance&getchanstream&getchanceip&getchanceport&getchancecertspip&getchancecertsport&getchanusername&getchanuserpwd&getchanceprotocol&getchanmanprotocoltype
```

4. OSD settings

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<parameter>= <value>	Values	description
setosdchannel= < int> getosdchannel= < int>	0, 1, 2, 3...	Chanel number, Default IPCAMERA is 0
setosdtimeenable= < int> getosdtimeenable= < int>	0,1	Display time OSD 0: no Display 1: yes
setosdtimeformat= < int>	0,1, 2	Date format

getosdtimeformat= <int>		0: Year/Month/Day 1: Month/Day/Year 2: Day/Month/Year
setosdchannnameenable= <int> getosdchannnameenable= <int>	0,1	Display Text OSD 0: No Display 1: Display
setosdchannname= <string> getosdchannname= <string>		Channel name display text (Less than 31 bytes)
setosdpostion= <int> getosdpostion= <int>	0,1	OSD Display position 0: Top left corner 1: Lower left corner
setosdmirror= <int> getosdmirror= <int>	0,1,2,3	Image 0: close 1: Level 2: vertical 3: Leve and vertical

example:

```
http://172.18.193.236/vb.htm?setosdchannal=0&setosdtimeenable=1&setosdtimeformat=0&setosdchannnameenable=0&setosdchannname=CH1&setosdpostion=1&setosdmirror=0
http://172.18.193.236/vb.htm?getosdchannal=0&getosdtimeenable&getosdtimeformat&getosdchannnameenable&getosdchannname&getosdpostion&getosdmirror
```

5. Image Settings

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<code><parameter> = <value></code>	Values	description
<code>setimagechanno = <int></code> <code>getimagechanno = <int></code>	0, 1, 2, 3...	Choose the channel
<code>setimagebrightness = <int></code> <code>getimagebrightness = <int></code>	0-255	brightness
<code>setimagecontrast2 = <int></code> <code>getimagecontrast2 = <int></code>	0-255	Contrast
<code>setimagesaturation = <int></code> <code>getimagesaturation = <int></code>	0,1	saturation
<code>setimagesharpness = <string></code> <code>></code> <code>getimagesharpness = <string></code> <code>></code>		Sharpness
<code>getmaximagechannelno = <int></code>	0, 1, 2, 3...	Get Max Parameter's Image Setting of Selected Channel Number
<code>getmaximageluminance = <int></code>		Brightness max
<code>getmaximagecontrast = <int></code>		Contrast max
<code>getmaximagesaturability = <int></code>		Saturation max
<code>getmaximageacutance = <int></code>		Sharpness max

example:

```

http://172.18.193.236/vb.htm?setimagechanno=0&setimagebrightness=170&setimagecontrast2=128&setimagesaturation=128&setimagesharpness=128
http://172.18.193.236/vb.htm?getmaximagechannelno=0&getmaximageluminance&getmaximagecontrast&getmaximagesaturability&getmaximageacutance
http://172.18.193.236/vb.htm?getimagechanno=0&getimagebrightness&getimagecontrast2&getimagesaturation&getimagesharpness

```


6. Motion Detection

http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...

<parameter>=<value>	Values	description
setmotiondetchan=<int> getmotiondetchan=<int>	0, 1, 2, 3...	Choose the channel
setmotiondetblock=<int> getmotiondetblock=<int>		Motion detection draw area
setmotiondetsen=<int> getmotiondetsen=<int>	0-10, 250	Sensitivity
setmotiondeten=<int> getmotiondeten=<int>	0,1	Motion Detection enable 0: close 1: open
setmotiondetbeepen=<int> getmotiondetbeepen=<int>	0,1	Buzzer alarm 0: close 1: open
setmotiondetbeetime=<int> getmotiondetbeetime=<int>	1-255	Buzzer alarm time (sec)
setmotiondetrecorden=<int> getmotiondetrecorden=<int>	0,1	Record chanel 0: close 1: open
setmotiondetrecordtime=<int> > getmotiondetrecordtime=<int> >	1-255	Record time (sec)

setmotiondetsmtpen= <int> getmotiondetsmtpen= <int>	0	Default is 0
setmotiondetftpen= <int> getmotiondetftpen= <int>	0	Default is 0
setmotiondetres= <int> getmotiondetres= <int>	0	Default is 0

example:

```
http://172.18.193.236/vb.htm?setmotiondetchan=1&setmotiondetblock=4194303;4194303;4194303;4194303;4194303;4194303;4194303;4194303;4194303;4194303;4194303;4194303;4194303;4194303;4194303;4194303;&setmotiondetsen=250
http://172.18.193.236/vb.htm?getmotiondetchan=1&getmotiondeten&getmotiondetbeepen&getmotiondetbeetime&getmotiondetrecorden&getmotiondetrecordtime&getmotiondetsmtpen&getmotiondetftpen&getmotiondetsen&getmotiondetres
```

7. Privacy Mask

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<parameter> = <value>	Values	description
setoverlaychanno= <int> getoverlaychanno= <int>	0, 1, 2, 3...	Chosoe the chanel
setoverlaycoverenable0= <int> > setoverlaycoverenable1= <int> > setoverlaycoverenable2= <int> > setoverlaycoverenable3= <int> >	0,1	Set the Mask District Enable status 0: close 1: open
setoverlaycoverx0= <int>		Set Cover area one attribute

setoverlaycovery0= <int> setoverlaycoverw0= <int> setoverlaycoverh0= <int>		
setoverlaycoverx1= <int> setoverlaycovery1= <int> setoverlaycoverw1= <int> setoverlaycoverh1= <int>		Set Cover area two attribute
setoverlaycoverx2= <int> setoverlaycovery2= <int> setoverlaycoverw2= <int> setoverlaycoverh2= <int>		Set Cover area three attribute
setoverlaycoverx3= <int> setoverlaycovery3= <int> setoverlaycoverw3= <int> setoverlaycoverh3= <int>		Reserved area
getoverlaycoverenable0= <int > getoverlaycoverenable1= <int > getoverlaycoverenable2= <int > getoverlaycoverenable3= <int >	0,1	Get Covered area enable state 0: close 1: open
getoverlaycoverx0= <int> getoverlaycovery0= <int> getoverlaycoverw0= <int> getoverlaycoverh0= <int>		Get Cover area one attribute
getoverlaycoverx1= <int> getoverlaycovery1= <int> getoverlaycoverw1= <int> getoverlaycoverh1= <int>		Get Cover area two attribute
getoverlaycoverx2= <int> getoverlaycovery2= <int> getoverlaycoverw2= <int> getoverlaycoverh2= <int>		Get Cover area three attribute

getoverlaycoverx3= <int> getoverlaycovery3= <int> getoverlaycoverw3= <int> getoverlaycoverh3= <int>		Reserved area
--	--	---------------

example:

```

http://172.18.193.236/vb.htm?setoverlaychanno=0&setoverlaycoverenable0=0&setoverla
ycoverx0=0&setoverlaycovery0=0&setoverlaycoverw0=0&setoverlaycoverh0=0&setoverla
ycoverenable1=0&setoverlaycoverx1=0&setoverlaycovery1=0&setoverlaycoverw1=0&setov
erlaycoverh1=0&setoverlaycoverenable2=0&setoverlaycoverx2=0&setoverlaycovery2=0&s
etoverlaycoverw2=0&setoverlaycoverh2=0&setoverlaycoverenable3=0&setoverlaycoverx3
=32&setoverlaycovery3=32&setoverlaycoverw3=128&setoverlaycoverh3=128
http://172.18.193.236/vb.htm?getoverlaychanno=0&getoverlaycoverenable0&getoverlayco
verx0&getoverlaycovery0&getoverlaycoverw0&getoverlaycoverh0&getoverlaycoverenable1
&getoverlaycoverx1&getoverlaycovery1&getoverlaycoverw1&getoverlaycoverh1&getoverla
ycoverenable2&getoverlaycoverx2&getoverlaycovery2&getoverlaycoverw2&getoverlaycoverh
2&getoverlaycoverenable3&getoverlaycoverx3&getoverlaycovery3&getoverlaycoverw3&get
overlaycoverh3

```

8. Record Settings

```

http://<servername>/vb.htm?<parameter>=<value>&<parameter
>=<value>;<parameter>:<value>...

```

<parameter> = <value>	Values	description
setrecchannum= <int> getrecchannum= <int>	0, 1, 2, 3...	Choose Channel
setrecweekday= <int> getrecweekday= <int>	0-6	Record Week 0: Mon 1: Tue 2: Wed 3: Thu 4: Fri 5: Sat 6: Sun

setrectotalseg: <int>	0-6	Period amount, less than 6 periods
setrectype0: <int> setrectype1: <int> setrectype2: <int> setrectype3: <int> setrectype4: <int> setrectype5: <int>	1,2,3	Period pattern 1: normal record 2: motion detection 3: all
setrecstarthour0: <int> setrecstarthour1: <int> setrecstarthour2: <int> setrecstarthour3: <int> setrecstarthour4: <int> setrecstarthour5: <int>	0-23	Record starting time: hour
setrecstartmin0: <int> setrecstartmin1: <int> setrecstartmin2: <int> setrecstartmin3: <int> setrecstartmin4: <int> setrecstartmin5: <int>	0-59	Record starting time: minutes
setrecstophour0: <int> setrecstophour1: <int> setrecstophour2: <int> setrecstophour3: <int> setrecstophour4: <int> setrecstophour5: <int>	0-24	Record ending time: hour
setrecstopmin0: <int> setrecstopmin1: <int> setrecstopmin2: <int> setrecstopmin3: <int> setrecstopmin4: <int> setrecstopmin5: <int>	0-59	Record ending time: minutes

example:

```
http://172.18.193.236/vb.htm?setrecchannum=0&setrecweekday=0;setrectotalseg:1;setrectype0:3;setrecstarthour0:0;setrecstartmin0:0;setrecstophour0:24;setrecstopmin0:0;setrectype1:0;setrecstarthour1:0;setrecstartmin1:0;setrecstophour1:0;setrecstopmin1:0;setrectype2:0;setrecstarthour2:0;setrecstartmin2:0;setrecstophour2:0;setrecstopmin2:0;setrectype3:0;setrecstarthour3:0;setrecstartmin3:0;setrecstophour3:0;setrecstopmin3:0;setrectype4:0;setrecstarthour4:0;setrecstartmin4:0;setrecstophour4:0;setrecstopmin4:0;setrectype5:0;setrecstarthour5:0;setrecstartmin5:0;setrecstophour5:0;setrecstopmin5:0
http://172.18.193.236/vb.htm?getrecchannum=0&getrecweekday=0
```

9. Coding Parameter

1. According to setting or getting, parameter Prefix add set or get
2. According to encode back main/sub to distinguish main、sub stream

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<parameter> = <value>	Values	description
setahdencodechannelno = <int> getahdencodechannelno = <int>	0, 1, 2, 3...	Chanel number, Default IPCAMERA value is 0
setahdencodemainencodetype = <int> setahdencodesubencodetype = <int> getahdencodemainencodetype = <int> getahdencodesubencodetype = <int>	0, 1	Encode type 0: H264 1: H265
setahdencodemainresolution = <int> setahdencodesubresolution = <int> getahdencodemainresolution = <int> getahdencodesubresolution = <int>	0, 1, 2, 3, 4...	Resolution, differ according to models 0: 1024x768 1: 1280x720 2: 1280x1024 3: 1920x1080 4: 3840x2160
setahdencodemainencodemode = <int> setahdencodesubencodemode = <int> getahdencodemainencodemode = <int> getahdencodesubencodemode = <int>	0, 1	Encode mode 0: Video 1: A/V

setahdencodemainframerate= <int> setahdencodesubframerate= <int> getahdencodemainframerate= <int> getahdencodesubframerate= <int>	1-30	frame, Device models difference or N/P Standard difference, the value is different
setahdencodemainbiterate= <int> setahdencodesubbiterate= <int> getahdencodemainbiterate= <int> getahdencodesubbiterate= <int>	0-10000	Bite Rate, different device model may have different value
setahdencode264enable= <int> setahdencode265enable= <int> setahdencode264enable= <int> setahdencode265enable= <int>	0,1	H264+ /H265+ enable stae 0: ckose 1: open
getahdencodemainmaxframerate= <int> > getahdencodesubmaxframerate= <int>		Max frame, Different models may have different values
getahdencodemainminframerate= <int> > getahdencodesubminframerate= <int>		Min frame, Different models may have different values
getahdencodemainresolutionjoin= <stri ng> getahdencodesubresolutionjoin= <strin g>	1280x1280	Resolution that device support , Different models may have different values

example:

Set the encode parameter:

```
http://172.18.193.236/vb.htm?&setahdencodechannelno=0&setahdencodemainencodetype=0&setahdencodemainencodemode=0&setahdencodemainresolution=0&setahdencodemainframerate=15&setahdencodemainbiterate=4096&setahdencodesubencodetype=0&setahdencodesubencodemode=0&setahdencodesubresolution=0&setahdencodesubframerate=0&setahdencode264enable=0&setahdencode265enable=0&setahdencodesubbiterate=0
```

Get the encode parameter:

http://172.18.193.236/vb.htm?getahdencodechannelno=0&getahdencodemainencodetype
&getahdencodemainresolution&getahdencodemainencodemode&getahdencodemainframe
rate&getahdencodemainbiterate&getahdencodemainmaxframerate&getahdencodemainmi
nframerate&getahdencodemainresolutionjoin&getahdencodesubencodetype&getahdencod
esubresolution&getahdencodesubencodemode&getahdencodesubframerate&getahdencod
esubbitrate&getahdencodesubmaxframerate&getahdencodesubminframerate&getahdenco
desubresolutionjoin&getahencode264enable&getahencode265enable&getencodesupport

10. Disk management

http://<servername>/vb.htm?<parameter>=<value>&<parameter
>=<value>...

<parameter>=<value>	Values	description
setformatitem0=<int> ⋮ setformatitem9=<int>	0,1	Whether format the disk 0: no 1: yes
setformatnum=<int>	0-10	How many disks to format
getdisk		Get the disk information

example:

http://172.18.193.236/vb.htm?setuser=admin&setformatitem0=1&setformatitem1=0&se
tformatitem2=0&setformatitem3=0&setformatitem4=0&setformatitem5=0&setformatite
m6=0&setformatitem7=0&setformatitem8=0&setformatitem9=0&setformatnum=1
http://172.18.193.236/vb.htm?getdisk

11. Date time

http://<servername>/goform/date_time?cmd=<value>&<parameter>=<value>...

<parameter>=<value>	Values	description
updatemode=<int>	1-2	Update the time mode 1: Update through the time server (default) 2: Custom time
setsystemtimeyear=<int> > getsystemtimeyear=<int> >	>1900	System time year
setsystemtimemonth=<int> > getsystemtimemonth=<int> >	1-12	System time minth
setsystemtimeday=<int> > getsystemtimeday=<int> >	0-31	System time day
setsystemtimehour=<int> > getsystemtimehour=<int> >	0-23	System time hour
setsystemtimeminutes=<int> > getsystemtimeminutes=<int> >	0-59	System time minute
setsystemtimeseconds=<int> > getsystemtimeseconds=<int> >	0-59	System time second
setntpcontrol=<int> > getntpcontrol=<int> >	0,1	From NTP receiving date/time 0: close

		1: open
setntpserver= <string> getntpserver= <int>		NTP server
setntptimezone= <int> getntptimezone= <int>	0-48	<p>0: GMT-12 Eniwetok Island, Kwajalein Atoll</p> <p>1: GMT-11.5</p> <p>2: GMT-11 Midway, Samoa</p> <p>3: GMT-10.5</p> <p>4: GMT-10 Hawaii</p> <p>5: GMT-9.5</p> <p>6: GMT-09 Alaska</p> <p>7: GMT-8.5</p> <p>8: GMT-08 Pacific time(USA and Canada), Tijuana</p> <p>9: GMT-7.5</p> <p>10: GMT-07 Mountain time(United States and Canada), Arizona</p> <p>11: GMT-6.5</p> <p>12: GMT-06 Middle Time(United States and Canada), Mexico City, Tegucigalpa, Saskatchewan</p> <p>13: GMT-5.5</p> <p>14: GMT-05 Eastern Time(United States and Canada), Indiana(East), Bogota, Lima</p> <p>15: GMT-4.5</p> <p>16: GMT-04 Pacific time(Canada), Caracas, La Paz</p> <p>17: GMT-3.5</p> <p>18: GMT-03 Brasilia, Buenos Aires, Georgetown</p> <p>19: GMT-2.5</p> <p>20: GMT-02 Central Atlantic</p> <p>21: GMT-1.5</p> <p>22: GMT-01 Azores, Cape Verde Islands</p> <p>23: GMT-0.5</p> <p>24: GMT+00 Dublin, Edinburgh, London, Lisbon, Monrovia, Casablanca</p> <p>25: GMT+0.5</p> <p>26: GMT+01 Berlin, Stockholm, Rome, Bern, Brussels, Vienna, Paris, Madrid,</p>

		<p>Amsterdam, Prague, Warsaw, Budapest</p> <p>27: GMT+1.5</p> <p>28: GMT+02Athens, Helsinki, Istanbul, Cairo, Eastern Europe, Harare, Pretoria, Israel</p> <p>29: GMT+2.5</p> <p>30: GMT+03 Baghdad, Kuwait, Nairobi, Riyadh, Moscow, St. Petersburg, Kazan, Volgograd</p> <p>31: GMT+3.5</p> <p>32: GMT+04 Abu Dhabi, Muscat, Tbilisi</p> <p>33: GMT+4.5</p> <p>34: GMT+05 Islamabad, Karachi, Yekaterinburg, Tashkent</p> <p>35: GMT+5.5</p> <p>36: GMT+06 Almaty, Dhaka</p> <p>37: GMT+6.5</p> <p>38: GMT+07 Bangkok, Jakarta, Hanoi</p> <p>39: GMT+7.5</p> <p>40: GMT+08 Taipei, Beijing, Chongqing, Urumqi, Hong Kong, Perth, Singapore</p> <p>41: GMT+8.5</p> <p>42: GMT+09 Tokyo, Osaka, Sapporo, Seoul, Yakutsk</p> <p>43 : GMT+9.5</p> <p>44: GMT+10 Brisbane, Melbourne, Sydney, Guam, Port Moresby, Vladivostok, Hobart</p> <p>45: GMT+10.5</p> <p>46: GMT+11 Magadan, Solomon Islands, New Caledonia</p> <p>47: GMT+11.5</p> <p>48: GMT+12 Fiji, Kamchatka, Marshall Islands, Wellington, Auckland</p>
<p>setntpdateformat=<int> getntpdateformat=<int></p>	0,1, 2	<p>Date format</p> <p>0: Year/Month/Day</p> <p>1: Month/Day/Year</p> <p>2: Day/Month/Year</p>
<p>setntpdateformat=<int> getntpdateformat=<int></p>	0-120	NTP Update interval (Min)

<parameter> = <value>	Values	description
setsummertimetmidst= <int> getsummertimetmidst= <int>	0,1	Set Summer time 0: close 1: time
setsummertimetmtype= <int> getsummertimetmtype= <int>	0, 1	Type 0: week 1: date
setsummertimetmoffset= <int> getsummertimetmoffset= <int>	0,1,2,3	offset (minutes) 0: 30 1: 60 2: 90 3: 120
setsummertimeoffsetflag= <int> > getsummertimeoffsetflag= <int> >		
setsummertimestartyear= <int> > getsummertimestartyear= <int> >		Summer time starting time: year
setsummertimestartmon= <int> > getsummertimestartmon= <int> >		Summer time starting time: month
setsummertimestarthour= <int> > getsummertimestarthour= <int> >		Summer time starting time: hour
setsummertimestartmin= <int> getsummertimestartmin= <int>		Summer time starting time: minute
setsummertimeendyear= <int> getsummertimeendyear= <int>		Summer time ending time: year
setsummertimeendmon= <int> getsummertimeendmon= <int>		Summer time ending time: month

setsummertimeendhour= <int> getsummertimeendhour= <int>		Summer time ending time: hour
setsummertimeendmin= <int> getsummertimeendmin= <int>		Summer time ending time: minute
setsummertimestartweektype= <int> getsummertimestartweektype= <int>	0,1,2,3,4	Summer time starting time: week type 0: first week 1: second week 2: third week 3: fourth week 4: last week
setsummertimestartweekday= <int> getsummertimestartweekday= <int>	0-6	Summer time starting time: weekday 0: Sun 1: Mon 2: Tue 3: Wed 4: Thu 5: Fri 6: Sat
setsummertimestartmday= <int> getsummertimestartmday		Summer Time starting time: day
setsummertimeendweektype= <int> getsummertimeendweektype= <int>	0,1,2,3,4	Summer Time ending time: week type 0: first week 1: second week 2: third week 3: fourth week 4: last week
setsummertimeendweekday= <int> getsummertimeendweekday= <int>	0-6	Summer Time ending time: week 0: Sun 1: Mon 2: Tue 3: Wed

		4: Thu 5: Fri 6: Sat
setsummertimeendmday= <int> > getsummertimeendmday= <int> >		Summer Time ending time: day

example:

```
http://172.18.193.236/vb.htm?setsummertimetmidst=0&setsummertimetmtype=0&setsummertimetmoffset=1&setsummertimeoffsetflag=0&setsummertimestartyear=2016&setsummertimestartmon=2&setsummertimestartweektype=0&setsummertimestartweekday=0&setsummertimestartmday=1&setsummertimestarthour=3&setsummertimestartmin=3&setsummertimeendyear=2016&setsummertimeendmon=10&setsummertimeendweektype=0&setsummertimeendweekday=0&setsummertimeendmday=1&setsummertimeendhour=3&setsummertimeendmin=3
http://172.18.193.236/vb.htm?getsummertimetmidst&getsummertimetmtype&getsummertimetmoffset&getsummertimeoffsetflag&getsummertimestartyear&getsummertimestartmon&getsummertimestartweektype&getsummertimestartweekday&getsummertimestartmday&getsummertimestarthour&getsummertimestartmin&getsummertimeendyear&getsummertimeendmon&getsummertimeendweektype&getsummertimeendweekday&getsummertimeendmday&getsummertimeendhour&getsummertimeendmin&getntpcontrol
```

13. Network

After setting the parameter, need to reboot the device to be effective

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<parameter> = <value>	Values	description
httpport= <int>	80	http server port
dhcpenable= <int>	0, 1	DHCP

		0 not enable 1 enable
netip=<string>	192.168.1.1 23	IPAddress
netmask=<string>	255.255.255 .0	Subnet mask
gateway=<string>	192.168.1.1	Default gateway
dns1=<string>		Preferred DNS server
dns2=<string>		Spare DNS server
dnsautoenable=<int>		Auto DNS 0 manual 1 auto
mac		MAC address
rtspserverport=<int>		Rtsp port
tcpport=<int>		Tcp port
multicast=<string>		Multicast address

example:

```
http://172.18.193.236/vb.htm?netip=172.18.197.218&netmask=255.255.248.0&gateway=172.18.192.2&dns1=172.18.192.2&dns2=8.8.8.8&mac=00:30:0C:0D:1D:32&dhcpenable=0&dnsautoenable=0
http://172.18.193.236/vb.htm?rtspserverport=554&tcpport=5000&httpport=80&multicast=0.0.0.0
```

14. DDNS

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```


<i><parameter>= <value></i>	Values	description
setddnsen= <i><int></i>	0, 1	DDNS 0: Not enabled 1: enable
setddnstype= <i><int></i> getddnstype= <i><int></i>	0-7	DDNS type 0: ORAY 1: NO-IP 2: DYN 3: CHANGEIP 4: A-PRESS 5: MYQSEE 6: SKDDNS 7: SMART-EYES
setddnsintertime= <i><int></i> getddnsintertime= <i><int></i>	1-600	Inter time (sec)
setddnsusertype= <i><string></i> getddnsusertype= <i><string></i>	0	DDNS user type
setddnsdomainname= <i><string></i> getddnsdomainname= <i><string></i>		Domain name
setddnsusername= <i><string></i> getddnsusername= <i><string></i>		DDNS user name
setddnsuserpwd= <i><string></i> getddnsuserpwd= <i><string></i>		DDNS password

example:

http://172.18.193.236/vb.htm?setuser=admin&setddnsen=1&setddnstype=0&setddnsintertime=60&setddnsusertype=0&setddnsdomainname=&setddnsusername=123&setddnsuserpwd=

http://172.18.193.236/vb.htm?getddnstype=0&getddnsen&getddnsintertime&getddnsusertype&getddnsdomainname&getddnsusername&getddnsuserpwd

15. Mail settings

http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...

<parameter>=<value>	Values	description
setuser=<string>		Set user
setsmtpserver=<string> getsmtpserver=<string>		SMTP server
setsmtpuser=<string> getsmtpuser=<string>		SMTP user
setsmtppasswd=<string> getsmtppasswd=<string>		SMTP password
setsmtpreceiver=<string> setsmtpreceiver1=<string> setsmtpreceiver2=<string> getsmtpreceiver=<string> getsmtpreceiver1=<string> getsmtpreceiver2=<string>		Receiver address
setsmtpsender=<string> getsmtpsender=<string>		Sender address
setsmtptheme=<string> getsmtptheme=<string>		theme
setsmtpen=<int> getsmtpen=<int>	0,1	Mail alarm notification 0: close 1: open
setsmtpanoen=<int> getsmtpanoen=<int>	0	

setsmtplibfileen= <int> getsmtplibfileen= <int>	0,1	Attachment 0: close 1: open
setsmtpport= <int> getsmtpport= <int>	0-65535	port
setsmtpenctype= <int> getsmtpenctype= <int>	0,1,2	Encryption type 0: NONE 1: SSL 2: TLS
setsmtppinterval= <int> getsmtppinterval= <int>		Sending interval (minutes)
setsmtpphealthen= <int> getsmtpphealthen= <int>	0	Default is 0
setsmtpphealthinterval= <int > getsmtpphealthinterval= <int >	0	Default is 0
testemailstatus		Mail testing

example:

```
http://172.18.193.236/vb.htm?setuser=admin&setsmtppserver=smtp.MailServer.com&setsmtppuser=&setsmtppasswd=&setsmtppreceiver=&setsmtppreceiver1=&setsmtppreceiver2=&setsmtppsender=&setsmtpptheme=NVR_ALERT&setsmtppen=0&setsmtppanoen=0&setsmtplibfileen=0&setsmtppport=465&setsmtpenctype=1&setsmtppinterval=1&setsmtpphealthen=0&setsmtpphealthinterval=0
http://172.18.193.236/vb.htm?getsmtppserver&getsmtppuser&getsmtppasswd&getsmtppreceiver&getsmtppreceiver1&getsmtppreceiver2&getsmtppsender&getsmtpptheme&getsmtppanoen&setsmtplibfileen&getsmtppport&setsmtpenctype&getsmtppinterval&getsmtpphealthen&getsmtpphealthinterval&setsmtppen
```

16. P2P

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<i><parameter> = <value></i>	Values	description
setfreeipen= <i><int></i> getfreeipen= <i><int></i>	0,1	Enable Freeip 0: close 1: open
setdanaleen= <i><int></i> getdanaleen= <i><int></i>	0	Default is 0
getfreeipandurl= <i><string></i>		Freeip Android url
getfreeipiosurl= <i><string></i>		Freeip IOS url
getdanalandurl= <i><string></i>		Danal Android url
getdanaliosurl= <i><string></i>		Danal IOS url
getp2psconnecttatus= <i><int></i>		P2P connection state

example:

```
http://172.18.193.236/vb.htm?setuser=admin&setfreeipen=1&setdanaleen=0
http://172.18.193.236/vb.htm?getfreeipen&getfreeipandurl&getfreeipiosurl&getdanaleen&
getdanalandurl&getdanaliosurl&getp2psconnecttatus
```

17. FTP

```
http://<servername>/vb.htm?<parameter> = <value> & <parameter>
> = <value> ...
```

<i><parameter> = <value></i>	Values	description
setftpenable= <i><int></i>	0,1	Enable FTP 0: close 1: open
setftpservierip= <i><string></i>		FTP server

setftpusername= <string>		FTP user
setftppassword= <string>		FTP password
setftpfoldername= <string>		File Upload
setftpport= <string>		port
setftpschedchn= <int>	0,1,2,3...	Choose channel
setftpschedisallweek= <int>	0,1	Set all week 0: yes 1: no
setftpscheddate= <int>	0-7	Week 0: Sun 1: Mon 2: Tue 3: Wed 4: Thu 5: Fri 6: Sat 7: all week
setftpschedtype1= <int>	0,1	Timetable 1 0: close 1: open
setftpschedisstarthour1= <int> >		Timetable 1 starting time: hour
setftpschedisstartmin1= <int>		Timetable 1 starting time: minute
setftpschedisstophour1= <int> >		Timetable 1 ending time: hour
setftpschedisstoptmin1= <int> >		Timetable 1 ending time: minute
setftpschedtype2= <int>	0,1	Timetable2 0: close 1: open

setftpschedisstarthour2		Timetable 2 starting time: hour
setftpschedisstartmin2		Timetable 2 starting time: minutes
setftpschedisstophour2		Timetable 2 ending time: hour
setftpschedisstoptmin2		Timetable 2 ending time: minute

example:

```
http://172.18.193.236/vb.htm?&setftpenable=0&setftpservierip=172.0.0.0&setftpusername=&setftppassword=&setftpfoldername=&setftpport=21
http://172.18.193.236/vb.htm?getftpscheddate=0&getftpschedtype1&getftpschedisstarthour1&getftpschedisstartmin1&getftpschedisstophour1&getftpschedisstoptmin1&getftpschedtype2&getftpschedisstarthour2&getftpschedisstartmin2&getftpschedisstophour2&getftpschedisstoptmin2
```

18. UPnP

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<parameter> = <value>	Values	description
setupnpen = <int> getupnpen = <int>	0,1	Enable UPnP 0: close 1: open
setupnpno = <int>		UPnP No.
setupnpnum = <int> getupnpnum = <int>		UPnP amount
setupnpservername = <string> >		UPnP server name
setupnpdtype = <int>	0	Default is 0

setupnpinport= <int>		External port
setupnpextport= <int>		Internal port
getupnpdevstate= <int>	0,1	State 0: connecting 1: connected
getupnplist		Get the upnp list

example:

```
http://172.18.193.236/vb.htm?setupnpen=0&setupnpno=0&setupnpnum=2&setupnpserve
rname=1&setupnpdtype=0&setupnpinport=1&setupnpextport=2
http://172.18.193.236/vb.htm?getupnpen&getupnpnum&getupnpdevstate&getupnpdevinip
&getupnpdevextip
```

19. Cloud Storage

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter
>=<value>...
```

<parameter>= <value>	Values	description
setbinddevicetype= <string>	1,2	Bind cloud address 1: Google 2: Dropbox
settestcloudstorage		test
setcloudstorageenable= <int> getcloudstorageenable	0,1	Cloud Storage Enable 0: close 1: open
setcloudstoragedir= <string> getcloudstoragestoragedir	file path	upload content

getcloudstorageprovider	1, 2,3	Get provider 1: Dropbox 2: Google 3: none of two
getcloudstoragebindstatus		Get the binding status
getcloudstorageusercode		Verification code
getcloudstorageurl		Cloud URL
getcloudstorageusername		User name
getcloudstoragetotal		total capacity
getcloudstorageused		used

example:

```
http://172.18.193.236/vb.htm?setcloudstorageenable=0&setcloudstoragedir=event_picture
http://172.18.193.236/vb.htm?getcloudstorageenable&getcloudstorageProvider&getcloudstoragebindstatus&getcloudstorageusercode&getcloudstorageurl&getcloudstoragedir&getcloudstorageusername&getcloudstoragetotal&getcloudstorageused
```

20. Abnormal

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<i><parameter> = <value></i>	Values	description
seteventtype= <i><int></i> geteventtype= <i><int></i>	0,1,2,3	Event type 0: no disk 1: disk error 2: network Disconnection 3: IP conflict
seteventenalbe= <i><int></i> geteventenalbe= <i><int></i>	0,1	Enable alarm 0: close

		1: open
seteventdisplay= <int> geteventdisplay= <int>	0,1	Screen Display 0: close 1: open
seteventemail= <int> geteventemail= <int>	0,1	Mail setting 0: close 1: open
seteventbuzzer= <int> geteventbuzzer= <int>	0,1	Buzzeralarm 0: close 1: open

example:

```
http://172.18.193.236/vb.htm?&seteventtype=0&seteventenalbe=0&seteventdisplay=0&
seteventemail=0&seteventbuzzer=0
http://172.18.193.236/vb.htm?geteventtype=0&geteventenalbe&geteventdisplay&getevent
email&geteventbuzzer
```

21. User settings

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter
>=<value>...
```

<parameter> = <value>	Values	description
addusername= <string>		Add user
addpassword= <string>		Add user password
addpasswordstrength= <int>	0,1,2,3	password strength 0: weak 1: ordinary 2: middle 3: Strong

addlocalconfigdatabit= <int>		Local configuration data bits
addremoteconfigdatabit= <int>		Remote configuration data bits
addcameraconfigdatabit= <int>		Channel configuration data bits
adduserlevel= <int>	0,1,2	user level 0: admin 1: operator 2: general user
modifyuserid= <string>		User ID
modifyusername= <string>		Configure the user's username
modifypassword= <string>		Configure the user's password
modifypasswordstrength= <string>		Configure the user's password strength
modifylocalconfigdatabit= <string>		Local configuration data bits
modifyremoteconfigdatabit= <string>		Remote configuration data bit
modifycameraconfigdatabit= <string>		Channel configuration data bits
modifyuserlevel= <int>	0,1,2	Configure the user's user level 0: admin 1: Operator 2: general user
selectalluserlist		Get user list

example:

```
http://172.18.193.236/vb.htm?modifyuserid=20171025102524&modifyusername=2&modi
fypassword=1&modifypasswordstrength=0&modifyulocalconfigdatabit=51539607552&mod
ifyuremoteconfigdatabit=64487424&modifyucameraconfigdatabit=1844672648152350720
0;18446726481523507200;18446726481523507200;18446726481523507200;18446726
481523507200;18446726481523507200;18446726481523507200;184467264815235072
00;18446726481523507200;18446726481523507200;18446726481523507200;1844672
6481523507200;18446726481523507200;18446726481523507200;18446726481523507
200;18446726481523507200;18446726481523507200;18446726481523507200;184467
26481523507200;18446726481523507200;18446726481523507200;1844672648152350
7200;18446726481523507200;18446726481523507200;18446726481523507200;18446
726481523507200;18446726481523507200;18446726481523507200;184467264815235
07200;18446726481523507200;18446726481523507200;18446726481523507200;1844
6726481523507200;18446726481523507200;18446726481523507200;18446726481523
507200&modifyuserlevel=1
```

22. Log Search

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter
>=<value>...
```

<i><parameter>=<value></i>	Values	description
setlogtype=<int>	0-6	Log type 0: All logs 1: System Management 2: User Management 3: Parameter configuration 4: File operation 5: Status prompt 6: Alarm event
setlogbeginyear=<int>		Starting Time: Year
setlogbeginmon=<int>		Starting Time: Month
setlogbeginday=<int>		Starting Time: Day
setlogbeginhour=<int>		Starting Time: Hour

setlogbeginmin= <int>		Starting Time: Minute
setlogbeginsec= <int>		Starting Time: Second
setlogendyear= <int>		Ending time: year
setlogendmon= <int>		Ending time: Month
setlogendday= <int>		Ending time: day
setlogendhour= <int>		Ending time: hour
setlogendmin= <int>		Ending time: Minute
setlogendsec= <int>		Ending time: second
setquerylog= <int>	1	Default is 1
setdeletelog= <int>	1	Delete log

example:

```
http://172.18.193.236/vb.htm?setlogtype=0&setlogbeginyear=2017&setlogbeginmon=10
&setlogbegininday=26&setlogbeginhour=00&setlogbeginmin=00&setlogbeginsec=00&setlog
endyear=2017&setlogendmon=10&setlogendday=26&setlogendhour=23&setlogendmin=5
9&setlogendsec=59&setquerylog=1
```

23. Device Upgrade

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter
>=<value>...
```

<parameter>= <value>	Values	description
setsystemreboot		reboot
upgradeprocess		upgradeprocess

example:

```
http://172.18.193.236/vb.htm?setuser=admin&setsystemreboot
```

24. Automatic maintenance

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<i><parameter>=<value></i>	Values	description
setautomaintaintype=<int> getautomaintaintype=<int>	0,1,2,3	Auto maintenance type 0: never 1: daily 2: weekly 3: monthly
setautomaintainday=<int> getautomaintainday=<int>	1-31	Auto maintenance: Day
setautomaintainweek=<int> getautomaintainweek=<int>	0-6	Auto maintenance: Week
setautomaintainhour=<int> getautomaintainhour=<int>	0-23	Auto maintenance: Hour
setautomaintainmin=<int> getautomaintainmin=<int>	0-59	Auto maintenance: minute

example:

```
http://172.18.193.236/vb.htm?setautomaintainweek=3&setautomaintainhour=3&setautomaintainmin=3
http://172.18.193.236/vb.htm?getautomaintainweek&getautomaintainhour&getautomaintainmin
```

25. Restore Factory Settings

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

<i><parameter>=<value></i>	Values	description
restorefactorysettings=<int>;<int> >...	0,1	<p>26. Restore Factory Settings</p> <p>0: close 1: open</p>

example:

```
http://172.18.193.236/vb.htm?restorefactorysettings=1;0;0;0;0;0;0;0;0;0;0;1;0;0;0;0;0;0;0;0;0;
```

27. PTZ Control

```
http://<servername>/vb.htm?<parameter>=<value>&<parameter>=<value>...
```

Get cruising status		
<parameter> = <value>	Values	description
"getptzcruch": channel	0,1...	channel number
"getptzcrulinenum": index	0,1,2	index Cruise line
"getptzcrulineen": null	null	
Loading cruise line list data		
"getptzcrulineen": ListNo	0-15 or 16-31	0-15: The first 16 signs 16_31: The last 16 signs
Set preset point status		
"setptzallprech": ch	0,1...	ch channel number
"setptzallprenum": num	0,1,2	num preset point
"setptzallpreen": enable	0,1	enable enable
"setptzallpreopera": opera		
PTZ control		
"setptzchannel": channel		channel channel
"setptzspeed": speed		speed speed
"setptzpreset": preset		preset preset point
"setptzopera": oper		
example: up:		

<http://dseitalia.it/debug/debug.php?cmd=vb&setptzchannel=0&setptzspeed=4&setptzpreset=1&setptzopera=1>

down:

<http://dseitalia.it/debug/debug.php?cmd=vb&setptzchannel=0&setptzspeed=4&setptzpreset=1&setptzopera=3>

left:

<http://dseitalia.it/debug/debug.php?cmd=vb&setptzchannel=0&setptzspeed=4&setptzpreset=1&setptzopera=5>

right:

<http://dseitalia.it/debug/debug.php?cmd=vb&setptzchannel=0&setptzspeed=4&setptzpreset=1&setptzopera=7>

Upper left:

<http://dseitalia.it/debug/debug.php?cmd=vb&setptzchannel=0&setptzspeed=4&setptzpreset=1&setptzopera=9>

Upper right:

<http://dseitalia.it/debug/debug.php?cmd=vb&setptzchannel=0&setptzspeed=4&setptzpreset=1&setptzopera=11>

Bottom left:

<http://dseitalia.it/debug/debug.php?cmd=vb&setptzchannel=0&setptzspeed=4&setptzpreset=1&setptzopera=13>

Bottom right:

<http://dseitalia.it/debug/debug.php?cmd=vb&setptzchannel=0&setptzspeed=4&setptzpreset=1&setptzopera=15>

Save cruise line list data

"setptzcruch": ch		ch the selected channel
"setptzcrulinenum": pathIdx		pathIdx Cruise line
"setptzcrulineen": enable		enable enable
"setptzcrulineen": data		data List data
"setptzcrupreset0_7": databit		0-7 preset point data
"setptzcrupreset8_15": databit		8-15 preset point data
"setptzcrupreset16_23": databit		16-23 preset point data

"setptzcrupreset24_31": databit		24-31 preset point data
---------------------------------	--	-------------------------

example:

http://dseitalia.it/debug/debug.php?cmd=vb&getptzcruch=0&getptzcrulinenum=0&getptzcrulineen&getptzcrupreset0_15

http://dseitalia.it/debug/debug.php?cmd=vb&setptzcruch=0&setptzcrulinenum=0&setptzcrupreset0_7=set_cru_en0:0,set_cru_sp0:7,set_cru_dt0:1,set_cru_pre0_num:1,set_cru_pre0_en:0;set_cru_en1:0,set_cru_sp1:0,set_cru_dt1:0,set_cru_pre1_num:0,set_cru_pre1_en:0;set_cru_en2:0,set_cru_sp2:0,set_cru_dt2:0,set_cru_pre2_num:0,set_cru_pre2_en:0;set_cru_en3:0,set_cru_sp3:0,set_cru_dt3:0,set_cru_pre3_num:0,set_cru_pre3_en:0;set_cru_en4:0,set_cru_sp4:0,set_cru_dt4:0,set_cru_pre4_num:0,set_cru_pre4_en:0;set_cru_en5:0,set_cru_sp5:0,set_cru_dt5:0,set_cru_pre5_num:0,set_cru_pre5_en:0;set_cru_en6:0,set_cru_sp6:0,set_cru_dt6:0,set_cru_pre6_num:0,set_cru_pre6_en:0;set_cru_en7:0,set_cru_sp7:0,set_cru_dt7:0,set_cru_pre7_num:0,set_cru_pre7_en:0;