



ACTi SDK-10000
URL Command Edition
V1.4

Programming Guide



www.acti.com

ACTi SDK-10000

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URL Command Index

MPEG4 Category

This category lists the commands that is related to MPEG-4 settings.

The syntax of the command is listed as follow:

`http://<IP Address>/cgi-bin/mpeg4?USER=<Account Name>&PWD=<Password>&<Parameters>`

or

`http://<Account Name>:<Password>@<IP Address>/cgi-bin/cmd/mpeg4?<Parameters>`

The notation of the value inside is listed as follow:

R: Read

W: Write

*****: On the fly change. Does not need to execute save and reboot to the firmware; all other parameters without * mark need to run save and reboot to the firmware to take effect.

G: Global setting, meaning that when user sets the value for Global setting, then all channels in the sub-unit are applied automatically

--: Not supported

C: Individual channels under a multi-channel device

<RED color>: Indicates that the setting of 2-channel device is different from that of 8-channel devices

MPEG4					
Parameter	Value	Format	1-CH	2-CH	8-CH
VIDEO_BRIGHTNESS	0~100	<value>	RW*	G:--,C:RW*	G:--,C:RW*
VIDEO_CONTRAST	0~100	<value>	RW*	G:--,C:RW*	G:--,C:RW*
VIDEO_SATURATION	0~100	<value>	RW*	G:--,C:RW*	G:--,C:RW*
VIDEO_HUE	0~100	<value>	RW*	G:--,C:RW*	G:--,C:RW*
VIDEO_RESOLUTION	NTSC: N720x480/N352x240/N160x112 PAL : P720x576/P352x288/P176x144	<string>	RW*	G:--,C:RW*	G:--,C:RW*
VIDEO_BITRATE	28K/56K/128K/256K/384K/500K/750K / 1M/1.2M/1.5M/2M/2.5M/3M	<string>	RW*	G:--,C:RW*	G:--,C:RW*
VIDEO_FPS_NUM	1/2/3/4/5/6/7/10/15/30 for NTSC 1/2/3/4/5/6/8/12/25 for PAL	<value>	RW*	G:--,C:RW*	G:--,C:RW*
VIDEO_CAMERA_NAME	Max sizes: 20 bytes	<string>	RW	G:--,C:RW	G:--,C:RW
VIDEO_STATUS	VIDEO_BRIGHTNESS='43' VIDEO_CONTRAST='50' VIDEO_SATURATION='58' VIDEO_HUE='50' VIDEO_RESOLUTION='N720x480' VIDEO_BITRATE='1.2M' VIDEO_FPS='MODE1' VIDEO_FPS_NUM='30' VIDEO_CAMERA_NAME='Camera-1'	text/plain	RO*	G:--,C:RO*	G:--,C:RO*
DIO_OUTPUT	0x00: DO1 LOW, DO2 LOW 0x01: DO1 HI, DO2 LOW 0x02: DO1 LOW, DO2 HI 0x03: DO1 HI, DO2 HI	<hex>	WO*	G:WO*,C:--	G:--,C:RW*
DIO_STATUS	BIT0: DI1 status BIT1: DI2 status BIT2: Reserved BIT3: Reserved BIT4: DO1 status BIT5: DO2 status BIT6: Reserved BIT7: Reserved	text/plain	RO*	G:RO*,C:--	G:--,C:RW*
MOTION_ENABLED	0x00: Disabled	<hex>	RW*	G:--,C:RW*	G:--,C:RW*

	0x01: Enabled				
MOTION_SETTING	window: 1~3 x_upper: NTSC:0~720/PAL:0~720 y_upper: NTSC:0~720/PAL:0~720 x_bottom: NTSC:0~480/PAL:0~576 y_bottom: NTSC:0~480/PAL:0~576 sensitive: 0~100	<window><x_upper>,<y_upper>,<x_bottom>,<y_bottom><sensitive>	WO*	G:--,C:WO*	G:--,C:WO*
MOTION_SENSITIVE	window: 1~3 sensitive: 0~100	<window>,<sensitive>	WO*	G:--,C:WO*	G:--,C:WO*
MOTION_STATUS	MOTION_STATUS=1,0,0,0,0,0 MOTION_STATUS=2,0,0,0,0,0 MOTION_STATUS=3,0,0,0,0,0	text/plain	RO*	G:--,C:RO*	G:--,C:RO*
SERIAL_SETTING	line: 8N1/8O1/8E1 baudrate: 2400/4800/9600/19200 38400/57600/115200	<line>,<baudrate>	RW*	G:RW*,C:--	G:--,C:RW*
SERIAL_ASCII	ascii string	<ascii string>	WO*	G:WO*,C:--	G:--,C:WO*
SERIAL_HEX	hex string	<hex string>	WO*	G:WO*,C:--	G:--,C:WO*
VIDEO_VARIABLE_FPS	id: get session id form sdk fps: NTSC: 1/3/6/30 PAL : 1/3/5/25	<id>,<fps>	WO*	G:--,C:WO*	G:--,C:WO*
RTP_MULTICAST_STREAMING	PLAY/PAUSE	<string>	RW*	G:--,C:RW*	G:--,C:RW*

SYSTEM Category

This category lists the commands that is related to system settings.

The syntax of the command is listed as follow:

`http://<IP Address>/cgi-bin/system?USER=<Account Name>&PWD=<Password>&<Parameters>`

or

`http://<Account Name>:<Password>@<IP Address>/cgi-bin/cmd/system?<Parameters>`

The notation of the value inside is listed as follow:

R: Read

W: Write

*****: On the fly change. Does not need to execute save and reboot to the firmware; all other parameters without * mark need to run save and reboot to the firmware to take effect.

G: Global setting, meaning that when user sets the value for Global setting, then all channels in the sub-unit are applied automatically

--: Not supported

C: Individual channels under a multi-channel device

<RED color>: Indicates that the setting of 2-channel device is different from that of 8-channel devices

SYSTEM					
Parameter	Value	Format	1-CH	2-CH	8-CH
SAVE_REBOOT	SAVE_REBOOT OK	text/plain	WO*	G:WO*,C--	G:WO*,C:WO*
SAVE	Save Finish	Test/plain	WO	G:WO,C--	G:WO,C:WO
REBOOT	REBOOT OK	text/plain	WO*	G:WO*,C--	G:WO*,C:WO*
FACTORY_DEFAULT	Factory Default Finish	text/plain	WO	G:WO,C--	G:WO,C:WO
SYSTEM_INFO	Firmware Version = A1D-P2N-V2.00.07-AC MAC Address = 00:0F:7C:00:00:67 Production ID = SED2400-04I-8-00027 Factory Default Type = NTSC, Composite, Two Ways Audio (0x71)	text/plain	RO*	G:RO*,C--	G:RO*,C:RO*
SYSTEM_PROPERTY	SYSTEM='E' TYPE='A' NO_OF_CHANNEL='01' MULTIPLEXING='X' NO_OF_AUDIO_WAYS='2' AUDIO_TYPE='PCM' MOTION_TYPE='0' PROTOCOL_TYPE='2'	text/plain	RO*	G:RO*,C--	G:RO*,C:RO*
LAN_HOSTNAME	Max size: 30bytes	<string>	RW	G:RW,C--	G:RW,C:--
WAN	WAN_TYPE='1' WAN_IP='10.0.0.1' WAN_NETMASK='255.255.255.0' WAN_GATEWAY='10.0.0.254' WAN_PPPOE_USERNAME="" WAN_PPPOE_PASSWORD=	text/plain	RO*	G:RO*,C--	G:RO*,C:--
WAN_TYPE	1: Dynamic IP 2: Static IP 3: PPPoE	<value>	RW	G:RW,C--	G:RW,C:--
WAN_IP	Static ip address	<ip address>	RW	G:RW,C--	G:RW,C:--
WAN_NETMASK	Static netmask ip	<ip address>	RW	G:RW,C--	G:RW,C:--
WAN_GATEWAY	Static gateway ip	<ip address>	RW	G:RW,C--	G:RW,C:--
WAN_PPPOE_USERNAME	Max sizes: 60bytes	<string>	RW	G:RW,C--	G:RW,C:--
WAN_PPPOE_PASSWORD	Max sizes: 60bytes	<string>	RW	G:RW,C--	G:RW,C:--
WAN_STATUS	IP Address : 172.16.3.15 Netmask : 255.255.255.0	text/plain	RO*	G:RO*,C--	G:RO*,C:--

	Gateway : 172.16.3.253 DNS Server : 172.16.5.19 172.16.5.22 DNS Host : WAN Connect Status : Connect DNS Connect Status : Connect DDNS Connect Status : Disconnect				
V2_WAN_STATUS	WAN_TYPE='1' WAN_IP='172.16.3.27' WAN_NETMASK='255.255.255.0' WAN_GATEWAY='172.16.3.253'	text/plain	RO*	G:RO*,C:--	G:RO*,C:--
DNS_PRIMARY	Primary domain name server	<ip address>	RW	G:RW,C:--	G:RW,C:--
DNS_SECONDARY	Secondary domain name server	<ip address>	RW	G:RW,C:--	G:RW,C:--
DNS	DNS_PRIMARY="" DNS_SECONDARY=""	text/plain	RO*	G:RO*,C:--	G:RO*,C:--
DDNS_TYPE	1: Disabled 2: Enabled	<value>	RW	G:RW,C:--	G:RW,C:--
DDNS_HOSTNAME		<string>	RW	G:RW,C:--	G:RW,C:--
DDNS_SERVICE	dyndns: members.dyndns.org qdns: members.3322.org ezip: www.EZ-IP.Net pgpow: www.penguinpowered.com dhs: members.fhs.org ods: update.ods.com tzo: cgi.tzo.com easydns: members.easydns.com justlinux: www.justlinux.com dyns: www.dyns.cx hn: www.hn.org zoneedit: www.zoneedit.com	<string>	RW	G:RW,C:--	G:RW,C:--
DDNS_USERNAME	Max sizes: 30bytes	<string>	RW	G:RW,C:--	G:RW,C:--
DDNS_PASSWORD	Max sizes: 30bytes	<string>	RW	G:RW,C:--	G:RW,C:--
DDNS	DDNS_TYPE='1' DDNS_HOSTNAME="" DDNS_SERVICE='dyndns' DDNS_USERNAME="" DDNS_PASSWORD=""	text/plain	RO*	G:RO*,C:--	G:RO*,C:--
DATE_TYPE	1: Manual setting 2: NTP/SNTP	<value>	RW	G:RW,C:--	G:RW,C:--
DATE_SNTP_IP		<ip address>	RW	G:RW,C:--	G:RW,C:--

DATE_SNTP_UPDATE	30: 5 min 3600: 1 hour 21600: 6 hour 43200: 12 hour 86400: 1 day	<value>	RW	G:RW,C--	G:RW,C:--
DATE_MANUAL_DATE	MM: Month DD: Day hh: Hour mm: Minute YYYY: Year	<MMDDhhmm YYYY>	RW	G:RW,C--	G:RW,C:--
DATE_MANUAL_TIME	hh: Hour mm: Minute ss: Second	< hh:mm:ss>	RW	G:RW,C--	G:RW,C:--
DATE_MANUAL_ZONE	-12 ~ +00 ~ +13	<string>	RW	G:RW,C--	G:RW,C:--
DATE	DATE_TYPE='2' DATE_SNTP_IP='192.168.0.2' DATE_SNTP_UPDATE='86400' DATE_MANUAL_DATE='0101000020 04' DATE_MANUAL_TIME='00:00:00' DATE_MANUAL_ZONE='+00'	text/plain	RO*	G:RO*,C--	G:RO*,C:--
VIDEO_TOS_TYPE	1: Disabled 2: Enabled	<value>	RW	G:RW,C--	G:RO*,C:RW G=CH 1
VIDEO_TOS_PRIORITY	Minimize-Delay Maximize-Throughput Maximize-Reliability Minimize-Cost Normal-Service	<string>	RW	G:RW,C--	G:RO*,C:RW G=CH 1
TOS	VIDEO_TOS_TYPE='1' VIDEO_TOS_PRIORITY='Normal-Service'	text/plain	RO*	G:RO*,C--	G:RO*,C:RO* G=CH 1
ACCOUNT_ROOT_NAME	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_ROOT_PASS WORD	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_NAME _1	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_PASS WORD_1	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_NAME _2	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_PASS WORD_2	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*

ACCOUNT_USER_NAME_3	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_PASS_WORD_3	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_NAME_4	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_PASS_WORD_4	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_NAME_5	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_PASS_WORD_5	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_NAME_6	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_PASS_WORD_6	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_NAME_7	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_PASS_WORD_7	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_NAME_8	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_PASS_WORD_8	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_NAME_9	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_PASS_WORD_9	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_NAME_10	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT_USER_PASS_WORD_10	Max sizes: 30bytes	<string>	RW	G:RW,C--	G:RW,C:RO*
ACCOUNT	ACCOUNT_ROOT_NAME='Admin' ACCOUNT_ROOT_PASSWORD='123456' ACCOUNT_USER_NAME_1=" ACCOUNT_USER_PASSWORD_1=" ACCOUNT_USER_NAME_2=" ACCOUNT_USER_PASSWORD_2=" ACCOUNT_USER_NAME_3=" ACCOUNT_USER_PASSWORD_3=" ACCOUNT_USER_NAME_4=" ACCOUNT_USER_PASSWORD_4=" ACCOUNT_USER_NAME_5=" ACCOUNT_USER_PASSWORD_5="	text/plain	RO*	G:RO*,C--	G:RW,C:RO*

	ACCOUNT_USER_NAME_6="" ACCOUNT_USER_PASSWORD_6="" ACCOUNT_USER_NAME_7="" ACCOUNT_USER_PASSWORD_7="" ACCOUNT_USER_NAME_8="" ACCOUNT_USER_PASSWORD_8="" ACCOUNT_USER_NAME_9="" ACCOUNT_USER_PASSWORD_9="" ACCOUNT_USER_NAME_10="" ACCOUNT_USER_PASSWORD_10="" '				
PORT_HTTP	Http port number	<value>	RW	G:RW,C:--	G:RW,C:RO*
PORT_SEARCH_1	Client send search command to this port	<value>	RW	G:RW,C:--	G:RW,C:RO*
PORT_SEARCH_2	Server return search result to this port	<value>	RW	G:RW,C:--	G:RW,C:RO*
PORT_REGISTER	Register port for TCP1.0 streaming	<value>	RW	G:--,C:--	G:--,C:--
PORT_CONTROL	IO Control port for TCP1.0/2.0 streaming	<value>	RW	G:--,C:RW	G:RW,C:RO*
PORT_VIDEO	Video/Audio streaming port for TCP1.0/2.0	<value>	RW	G:--,C:RW	G:RW,C:RO*
PORT_MULTICAST	Multicast streaming port for TCP1.0/2.0	<value>	RW	G:RW,C:--	G:RW,C:RO*
V2_PORT_RTSP	RTSP port number	<value>	RW	G:--,C:RW	G:RW,C:RO*
PORT	PORT_HTTP='80' PORT_SEARCH_1='6005' PORT_SEARCH_2='6006' PORT_REGISTER='6000' PORT_CONTROL='6001' PORT_VIDEO='6002' PORT_MULTICAST='5000' V2_PORT_RTSP='7070'	text/plain	RO*	G:--,C:RO*	G:RO*,C:RO*
LANGUAGE	0: English 1: Traditional Chinese 2: Simplified Chinese 3: Japanese 4: Spanish 5: Italian 6: German 7: Portuguese	<value>	RW	G:RW,C:--	G:RW,C:RO*

	8: Czech 9: French				
V2_STREAMING_TYPE	1: TCP Version 1.0 2: TCP Version 2.0	<value>	RW	G:RW,C--	G:RO,C:RO*
V2_STREAMING_METHOD	0: TCP Only for TCP2.0 1: Multicast Only for TCP2.0 2: TCP & Multicast for TCP2.0 3: RTP over UDP for TCP2.0 4: RTP over Multicast for TCP2.0 5: RTP over UDP & Multicast for TCP2.0	<value>	RW	G:RW,C--	G:--,C:RW
V2_MULTICAST_IF	0: LAN Port 1: WAN Port	<value>	RW	G:RW,C--	G:RO, C:--
V2_MULTICAST_IP	224.3.1.0 ~ 239.255.255.255 for TCP2.0	<ip address>	RW	G:--,C:RW	G:RW,C:RO*
V2_PORT_RTP_MULTIVIDEO	Video port for rtp over multicast	<value>	RW	G:--,C:RW	G:RW,C:RO*
V2_PORT_RTP_MULTIAUDIO	Audio port for rtp over multicast	<value>	RW	G:--,C:RW	G:RW,C:RO*
V2_FAILOVER	0: Disabled 1: Enabled	<value>	RW	G:RW,C:--	G:--, C:--
IGMP_ENABLED	0: Disabled 1: Enabled	<value>	RW	G:RW,C:--	G:RW,C:RO*
SPEED_LAN	0: Auto detect speed 1: 100Mbps/Full Duplex 2: 100Mbps/Half Duplex 3: 10Mbps/Full Duplex 4: 10Mbps/Half Duplex	<value>	RW	G:RW,C:--	G:--, C:--
SPEED_WAN	0: Auto detect speed 1: 100Mbps/Full Duplex 2: 100Mbps/Half Duplex 3: 10Mbps/Full Duplex 4: 10Mbps/Half Duplex	<value>	RW	G:RW,C:--	G:RW,C:--
VIDEO_MULTICAST_TTL	1~255	<value>	RW	G:--,C:RW	G:RO*, C:RW
VIDEO_MULTICAST_IP	1~255 multicast ip for TCP1.0	<value>	RW	G:--,C:--	G:--,C:--
VIDEO_LAN	DISABLE/TCP MULTICAST Streaming method for TCP1.0	<value>	RW	G:--,C:--	G:--,C:--
VIDEO_WAN	DISABLE/TCP MULTICAST Streaming method for TCP1.0	<value>	RW	G:--,C:--	G:--,C:--

HTTP Code Status

HTTP Code	HTTP Text	Description
200	OK	The request has succeeded, but an application error can still occur, which will be returned as an application error code.
204	No Content	The server has fulfilled the request, but there is no new information to send back.
400	Bad Request	The request had bad syntax or was inherently impossible to be satisfied.
401	Unauthorized	The request requires user authentication or the authorization has been refused.
404	Not Found	The server has not found anything matching the request.
409	Conflict	The request could not be completed due to a conflict with the current state of the resource.
500	Internal Error	The server encountered an unexpected condition which prevented it from fulfilling the request.
503	Service Unavailable	The server is unable to handle the request due to temporary overload.

Example :

Return success http context

```
HTTP/1.0 200 OK\r\nContent-Type: text/plain\n\n
```

Return failed http context

```
HTTP/1.0 200 OK\r\nContent-Type: text/plain\n\nERROR: error description
```

2

URL Sample Code

URL Command for Mpeg4

CHANNEL=n might be added in the URL command where **n** is in the range of 1 to maximum channels. For example, the **n** is in the range of 1 and 8 for the 8-channel video server device. The **CHANNEL=n** should be followed by **PWD** parameter in an URL command.

If the **CHANNEL=n** is missed in this method (mpeg4), the **CHANNEL=1** is used when read.

How to get video status

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_STATUS`

How to get brightness

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_BRIGHTNESS`

How to set brightness

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_BRIGHTNESS=a`

<parameter>	<values>	Description
VIDEO_BRIGHTNESS	a: 0 ~ 100	0: -25IRE . .. 50: 0IRE . .. 100: 25IRE

How to get contrast

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_CONTRAST`

How to set contrast

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_CONTRAST=a`

<parameter>	<values>	Description
VIDEO_CONTRAST	a: 0 ~ 100	0: 0% . ..

		50: 100%
		. ..
		100: 200%

How to get saturation

Syntax	<code>http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_SATURATION</code>
---------------	--

How to set saturation

Syntax	<code>http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_SATURATION=a</code>
---------------	--

<parameter>	<values>	Description
VIDEO_SATURATION	A: 0 ~ 100	0: 0%
		. ..
		50: 100%
		. ..
		100: 200%

How to get hue

Syntax	<code>http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_HUE</code>
---------------	---

How to set hue

Syntax	<code>http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_HUE=a</code>
---------------	---

<parameter>	<values>	Description
VIDEO_BRIGHTNESS	a: 0 ~ 100	0: -180 degree
		. ..
		50: 0 degree
		. ..
		100: 180 degree

How to get resolution

Syntax	<code>http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_RESOLUTION</code>
---------------	--

How to set resolution

Syntax	<code>http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_RESOLUTION=xxxx</code>
---------------	---

<parameter>	<values>	Description
VIDEO_RESOLUTION	Xxxx: string	N720x480: NTSC 720x480 N320x240: NTSC 320x240 N160x112: NTSC 160x112 P720x576: PAL 720x576 P352x288: PAL 352x288 P176x144: PAL 176x144

How to get bitrate

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_BITRATE`

How to set bitrate

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_BITRATE=xxxx`

<parameter>	<values>	Description
VIDEO_BITRATE	xxxx: string	28K: 28K bps 56K: 56K bps 128K: 128K bps 256K: 256K bps 384K: 384K bps 500K: 500K bps 750K: 750K bps 1M: 1M bps 1.5M: 1.5M bps 2M: 2M bps 2.5M: 2.5M bps 3M: 3M bps

How to get fps

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_FPS_NUM`

How to set fps

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_FPS_NUM=a`

<parameter>	<values>	Description
VIDEO_FPS_NUM	a: NTSC - 1,2,3,4,5,6,7,10,15,30 PAL - 1,2,3,4,5,6,8,12,25	

How to get camera name

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_CAMERA_NAME`

How to set camera name

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_CAMERA_NAME=xxxx`

<parameter>	<values>	Description
VIDEO_CAMERA_NAME	Xxxx: string	String max length : 15 bytes

How to get DIO status

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&DIO_STATUS`

<parameter>	<values>	Description
CHANNEL		Rackmount : Support Multi-Channel : Not Support
DIO_STATUS	0xnn: hexadecimal	BIT0: DI1 status BIT1: DI2 status BIT2: Reserved BIT3: Reserved BIT4: DO1 status BIT5: DO2 status BIT6: Reserved BIT7: Reserved

How to set DO

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&DIO_OUTPUT=0xnn`

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support
DIO_OUTPUT	0xnn: hexadecimal	0x00 : DO1 LOW, DO2 LOW 0x01 : DO1 HI, DO2 LOW 0x02 : DO1 LOW, DO2 HI 0x03 : DO1 HI, DO2 HI

How to get motion enabled

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&MOTION_ENABLED`

How to set motion enabled

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&MOTION_ENABLED=0xnn`

<parameter>	<values>	Description
MOTION_ENABLED	0xnn: 0x00,0x01	0x00 : Motion disabled 0x01 : Motion enabled

How to get motion config

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&MOTION_STATUS`

How to set motion config

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&MOTION_SETTING=a,b,c,d,e`

<parameter>	<values>	Description
MOTION_SETTING	a: 1 ~ 3 b: 0 ~ 720 c: 0 ~ 480/576 d: 0 ~ 720 f: 0 ~ 480/576 g: 0 ~ 100	a: region number b: x upper c: y upper d: x lower f: y lower g: sensitive

How to set motion sensitive

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&MOTION_SENSITIVE=a,b`

<parameter>	<values>	Description
MOTION_SETTING	a: 1 ~ 3 b: 0 ~ 100	a: region number b: 0: less sensitive . . . 50: middle sensitive . . . 100: more sensitive

How to get serial config

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&SERIAL_SETTING`

How to set serial config

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&SERIAL_SETTING=xxxx,a`

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support
SERIAL_SETTING	xxxx: 8N1,8O1,8E1 a: 2400,4800,9600,19200 38400,57600,115200	xxxx: Line Control a: Bitrate

How to send ASCII to serial

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&SERIAL_ASCII=xxxxxxxx`

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support

How to send HEX to serial

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&SERIAL_HEX=xxxxxxxx`

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support

How to on-fly-change variable fps

Syntax `http://192.168.1.1/cgi-bin/mpeg4?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_VARIABLE_FPS=a,b`

<parameter>	<values>	Description
VIDEO_VARIABLE_FPS	a: client session id b: variable frame rate	A: get client session id from SDK b: NTSC: 1,3,6,30 PAL: 1,3,5,25

URL Command for System

CHANNEL=n might be added in the URL command where **n** is in the range of 1 to maximum channels. For example, the **n** is in the range of 1 and 8 for the 8-channel video server device. The **CHANNEL=n** should be followed by **PWD** parameter in an URL command.

How to save parameter to flash

Syntax `http://192.168.1.1/cgi-bin/update?USER=Admin&PWD=123456&SAVE`

Save the configuration file of system to the flash

Syntax `http://192.168.1.1/cgi-bin/update?USER=Admin&PWD=123456&CHANNEL=n&SAVE`

Save the configuration file of the nth video server to the flash

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support

Http return context

HTTP/1.0 200 OK\r\n

Content-Type: text/plain\n

\n

Save Finish

How to reboot system

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&REBOOT`

Reboot the whole system included all of video servers

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&REBOOT`

Reboot the nth video server only

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support

How to save parameter to flash and reboot system

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&SAVE_REBOOT`

Save the configuration file of system and reboot included all of video servers

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&SAVE_REBOOT`

Save the configuration file of the nth video server and reboot the nth video server

<parameter>	<values>	Description
CHANNEL		Rackmount: Support

		Multi-Channel: Not Support
--	--	----------------------------

How to set factory default

Syntax	http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&FACTORY_DEFAULT
---------------	---

Restore the factory default setting in the system

Syntax	http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&FACTORY_DEFAULT
---------------	---

Restore the factory default setting in the nth video server.

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support

Http return context

```
HTTP/1.0 200 OK\r\n
Content-Type: text/plain\n
\n
Factory Default Finish
```

How to get system information

Syntax	http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&SYSTEM_INFO
---------------	---

Read the SYSTEM_INFO of the system.

Http return context

```
Firmware Version = A8D-R2N-V2.00.01-AC
MAC Address = 00:0F:7C:00:00:80
Production ID = SED2610
Factory Default Type = NTSC, Composite, Two Ways Audio (0x71).
NOTE: The return value of Factory Default Type is the CHANNEL=1 video server's value.
```

Syntax	http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&SYSTEM_INFO
---------------	---

Read the SYSTEM_INFO of the nth video server.

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support

Http return context

```
Firmware Version = A1D-P2N-V2.00.07-AC
MAC Address = 00:0F:7C:00:00:67
Production ID = SED2400-04I-8-00027
Factory Default Type = NTSC, Composite, Two Ways Audio (0x71)
```

How to get system property

Syntax	http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&SYSTEM_PROPERTY
---------------	---

Read the SYSTEM_PROPERTY of the system. All of the return values are the same as the values of the CHANNEL=1 video server.

Http return context

```
SYSTEM='E'
```

```

TYPE='A'
NO_OF_CHANNEL='01'
MULTIPLYING='X'
NO_OF_AUDIO_WAYS='2'
AUDIO_TYPE='PCM'
MOTION_TYPE='0'
PROTOCOL_TYPE='2'

```

Syntax http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&SYSTEM_PROPERTY

Read the SYSTEM_PROPERTY of the nth video server.

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support

Http return context

```

SYSTEM='E'
TYPE='A'
NO_OF_CHANNEL='01'
MULTIPLYING='X'
NO_OF_AUDIO_WAYS='2'
AUDIO_TYPE='PCM'
MOTION_TYPE='0'
PROTOCOL_TYPE='2'

```

How to get protocol type

Syntax http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&PROTOCOL_TYPE

Read the PROTOCOL_TYPE of the system. The 2 is always returned.

Syntax http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&PROTOCOL_TYPE

Read the PROTOCOL_TYPE of the nth video server which is the same as the setting in the system

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support

<parameter>	<values>	Description
PROTOCOL_TYPE	a: 1 ~ 2	1: Run version 1 protocol 2: Run Version 2 protocol

How to get LAN

Syntax http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&LAN

Read the LAN HOSTNAME settings in the system

How to get LAN hostname

Syntax http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&LAN_HOSTNAME

Get the LAN HOSTNAME setting in the system

How to set LAN hostname

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&LAN_HOSTNAME=xxxxxxxx`

Set the LAN HOSTNAME to the system and all of video servers.

How to get WAN

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&WAN`

Read the WAN port settings in the system

How to set dynamic ip for WAN

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&WAN_TYPE=1`

Set the dynamic type of WAN in the system.

How to set static ip for WAN

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&WAN_TYPE=2&
WAN_IP=x.x.x.x&WAN_NETMASK=x.x.x.x&WAN_GATEWAY=x.x.x.x`

Set the static wan ip in the system.

<parameter>	<values>	Description
WAN_TYPE	n : 1 ~ 2	1: Dynamic IP 2: Static IP
WAN_IP	x.x.x.x : IP address	Static IP address
WAN_NETMASK	x.x.x.x : NetMask	Netmask, ex: 255.255.255.0
WAN_GATEWAY	x.x.x.x : gateway IP	Default gateway ip

How to get DNS

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&DNS`

Get the DNS settings in the system

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&DNS`

Get the DNS settings in the nth video server which should be the same as the settings in the system

How to set DNS

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&
DNS_PRIMARY=x.x.x.x&DNS_SECONDARY=x.x.x.x`

Set the DNS in the system and all of video servers.

<parameter>	<values>	Description
DNS_PRIMARY	x.x.x.x : IP address	Primary DNS server ip address
DNS_SECONDARY	x.x.x.x : IP address	Secondary DNS server ip address

How to get DDNS

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&DDNS`

Get the DDNS in the system

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&DDNS`

Get the DDNS in the nth video server which is the same as the setting in the system

How to disable DDNS

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&DDNS_TYPE=1`

Disable the DDNS in the system and all of video servers.

How to enable DDNS

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&DDNS_TYPE=2&
DDNS_SERVICE=xxxx&DDNS_HOSTNAME=x.x.x.x&DDNS_USERNAME=xxxx&DDNS_PASSWORD=xxxx`

Enable the DDNS in the system and all of video servers.

<parameter>	<values>	Description
DDNS_TYPE	n: 1 ~2	1: Disabled 2: Enabled
DDNS_SERVICE	xxxx: string	dyndns: members.dyndns.org qdns: members.3322.org ezip: www.EZ-IP.Net pgpow: www.penguinpowered.com dhs: members.fhs.org ods: update.ods.com tzo: cgi.tzo.com easydns: members.easydns.com justlinux: www.justlinux.com dyns: www.dyns.cx hn: www.hn.org zoneedit: www.zoneedit.com
DDNS_HOSTNAME	x.x.x.x: string	Host domain name
DDNS_USERNAME	xxxx: string	User name
DDNS_PASSWORD	Xxxx: string	Password

How to get date

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&DATE`

Get the DATE settings in the system

How to set manual config

Syntax	http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&DATE_TYPE=1 DATE_MANUAL_DATE=MMDDhhmmYYYY&DATE_MANUAL_TIME=hh:mm:ss&DATE_MANUAL_ZONE=nn
---------------	--

Set the MANUAL DATE settings in the system and all video servers.

How to set NTP/SNTP

Syntax	http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&DATE_TYPE=2 DATE_SNTP_IP=x.x.x.x&DATE_SNTP_UPDATE=m&DATE_MANUAL_ZONE=nn
---------------	--

Set the NTP/SNTP in the system and all of video servers.

<parameter>	<values>	Description
DATE_TYPE	n: 1 ~2	1: Manual setting 2: NTP/SNTP
DATE_MANUAL_DATE	MMDDhhmmYYYY: number	MM: Month DD: Day hh: Hour mm: Minute YYYY: Year
DATE_MANUAL_TIME	hh:mm:ss : number	Hh: Hour mm: Minute ss: Second
DATE_MANUAL_ZONE	nn: -12 ~ +00 ~ +13	Time zone
DATE_SNTP_IP	x.x.x.x: IP address	NTP/SNTP Server
DATE_SNTP_UPDATE	n: 30,3600,21600, 43200,86400	30: 5 min 3600: 1 hour 21600: 6 hour 43200: 12 hour 86400: 1 day

How to get TOS

Syntax	http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&TOS
---------------	---

Read the TOS in the system which is the same as the value in the CHANNEL=1 video server

Syntax	http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&TOS
---------------	---

Read the TOS in the nth video server

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support

How to disabled TOS

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_TOS_TYPE=1`

Set the TOS of the nth video server.

<parameter>	<values>	Description
CHANNEL		<p>Rackmount: Support</p> <p>If the CHANNEL=n is missed, error message is returned.</p> <pre>HTTP/1.0 200 OK\r\n Content-Type: text/plain\n \n ERROR!! The CHANNEL is not assigned!!</pre> <p>Multi-Channel: Not Support</p>

How to enabled TOS

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&VIDEO_TOS_TYPE=2&VIDEO_TOS_PRIORITY=xxxx`

Enable TOS of the nth video server.

<parameter>	<values>	Description
CHANNEL		<p>Rackmount: Support</p> <p>If the CHANNEL=n is missed, error message is returned.</p> <pre>HTTP/1.0 200 OK\r\n Content-Type: text/plain\n \n ERROR!! The CHANNEL is not assigned!!</pre> <p>Multi-Channel: Not Support</p>

<parameter>	<values>	Description
VIDEO_TOS_TYPE	n: 1 ~2	<p>1: Disabled</p> <p>2: Enabled</p>
DATE_MANUAL_DATE	xxxx: string	<p>Minimize-Delay</p> <p>Maximize-Throughput</p> <p>Maximize-Reliability</p> <p>Minimize-Cost</p> <p>Normal-Service</p>

How to get account

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&ACCOUNT`

Get the account information in the system

How to set root account

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&ACCOUNT_ROOT_PASSWORD=xxxx&ACCOUNT_ROOT_PASSWORD=xxxx`

Set the root account and password in the system and all of video servers.

How to set user account

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&ACCOUNT_USER_NAME_1=xxxx&ACCOUNT_USER_PASSWORD_1=xxxx`

Set the root account and password in the system and all of video servers.

<parameter>	<values>	Description
ACCOUNT_ROOT_NAME	xxxx: string	User name for root
ACCOUNT_ROOT_PASSWORD	xxxx: string	Password for root
ACCOUNT_USER_NAME_?	? : 1 ~ 10 xxxx: string	User name
ACCOUNT_USER_PASSWORD_?	? : 1 ~ 10 xxxx: string	Password

How to get port number

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&PORT`

Get all port information of system. The value in the PORT_CONTROL, PORT_VIDEO and V2_PORT_RTSP ports is the same as the value in the CHANNEL=0 video server.

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&PORT`

Get all port information of the nth video server. The value in the PORT_REGISTER, PORT_HTTP, PORT_MULTICAST, PORT_SEARCH_1 and PORT_SEARCH_2 are the same as the value in the system.

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Support

How to set http port

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&PORT_HTTP=n`

Set HTTP PORT of the system.

How to set search port

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&PORT_SEARCH_1=n&PORT_SEARCH_2=m`

Set SEARCH PORTS of the system.

How to set streaming port

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&PORT_CONTROL=m&PORT_VIDEO=p`

Set streaming ports for the nth video server.

<parameter>	<values>	Description
CHANNEL		Rackmount: Support If the CHANNEL=n is not assigned in the URL command, the error message is returned. HTTP/1.0 200 OK\r\n Content-Type: text/plain\n \n ERROR!! The CHANNEL is not assigned!
		Multi-Channel: Support

How to set multicast port

Syntax http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&PORT_MULTICAST=q

Set multicast port in the system and all of video servers. This setting will be same as the URL command with V2_PORT_RTP_MULTI_VIDEO.

<parameter>	<values>	Description
CHANNEL		Rackmount: Not Support If the CHANNEL=n is assigned in the URL command, the error message is returned. HTTP/1.0 200 OK\r\n Content-Type: text/plain\n \n ERROR!! CHANNEL=n should not be set.
		Multi-Channel: Not Support

How to set RTSP port

Syntax http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&V2_PORT_RTSP=p

Set the RTSP port in the nth video server.

<parameter>	<values>	Description
CHANNEL		Rackmount: Support If the CHANNEL=n is not assigned in the URL command, the error message is returned. HTTP/1.0 200 OK\r\n Content-Type: text/plain\n \n ERROR!! The CHANNEL is not assigned!
		Multi-Channel: Support

<parameter>	<values>	Description
PORT_HTTP	n: number	Web server port number

PORT_SEARCH_1	n: number	For ip search tool used
PORT_SEARCH_2	m: number	For ip search tool used
PORT_REGISTER	n: number	Verson 1 protocol used
PORT_CONTROL	m: number	Version 1/Version 2 protocol used
PORT_VIDEO	p: number	Version 1/Version 2 protocol used
PORT_MULTICAST	q: numba=er	Version 1/Version 2 protocol used
V2_PORT_RTSP	n: number	Version 2 protocol used

How to get language

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&LANGUAGE`

Get the language setting in the system

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&LANGUAGE`

Get the language setting in the nth video server which is the same as the value in the system

How to set language

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&LANGUAGE=n`

Set the language in the system and all of video servers.

<parameter>	<values>	Description
LANGUAGE	n: number	0: English 1: Traditional Chinese 2: Simplified 3: Japanese 4: Spanish

How to get streaming type

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&V2_STREAMING_TYPE`

Get the streaming type of the system. The 2 is always returned.

<parameter>	<values>	Description
V2_STREAMING_TYPE	n: number	1: TCP Version 1.0 2: TCP Version 2.0

How to set version 2.0 streaming method

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&V2_STREAMING_METHOD=n`

Set the streaming method in the nth video server.

<parameter>	<values>	Description
-------------	----------	-------------

CHANNEL		Rackmount: Support If the CHANNEL=n is not assigned in the URL command, the error message is returned. HTTP/1.0 200 OK\r\n Content-Type: text/plain\n \n ERROR!! The CHANNEL is not assigned! Multi-Channel: Not Support
V2_STREAMING_METHOD	n: number	0: TCP Only 1: Multicast Only 2: TCP & Multicast 3: RTP over UDP 4: RTP over Multicast

How to get multicast interface

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&V2_MULTICAST_IF`

Get the multicast interface setting of the system

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&V2_MULTICAST_IF`

Get the multicast interface setting of the nth video server which is the same as the setting of the system

<parameter>	<values>	Description
CHANNEL		Rackmount: Support Multi-Channel: Not Support

<parameter>	<values>	Description
V2_MULTICAST_IF	n: number	0: LAN Port 1: WAN Port

How to set version 2.0 multicast ip

Syntax `http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&V2_MULTICAST_IP=x.x.x.x`

Set the Multicast IP address of the nth video server.

<parameter>	<values>	Description
CHANNEL		Rackmount: Support If the CHANNEL=n is not assigned in the URL command, the error message is returned. HTTP/1.0 200 OK\r\n Content-Type: text/plain\n \n ERROR!! The CHANNEL is not assigned!!

		Multi-Channel: Support
--	--	------------------------

<parameter>	<values>	Description
V2_MULTICAST_IP	x.x.x.x: IP address	Multicast ip address 224.3.1.0 ~ 239.255.255.255

How to set version 2.0 RTP over Multicast port number

Syntax	<pre>http://192.168.1.1/cgi-bin/system?USER=Admin&PWD=123456&CHANNEL=n&V2_PORT_RTP_MULTI_VIDEO=n&V2_PORT_RTP_MULTI_AUDIO=m</pre>
---------------	--

Set the multicast video and audio port in the system and all of the video servers.

<parameter>	<values>	Description
CHANNEL		<p>Rackmount: Not Support</p> <p>If the CHANNEL=n is assigned in the URL command, the error message is returned.</p> <pre>HTTP/1.0 200 OK\r\nContent-Type: text/plain\n\nERROR!! CHANNEL=n should not be set.</pre> <p>Multi-Channel: Not Support</p>
V2_MULTICAST_IP	n: number m: number	n: Video port number for RTP over Multicast m: Audio port number for RTP over Multicast

3

URL Command for IP Quad

URL Command for IP Quad

How to set display mode

Syntax `http://192.168.1.1/cgi-bin/quad?DISPLAY=n`

How to get display mode

Syntax `http://192.168.1.1/cgi-bin/quad?DISPLAY`

<parameter>	<values>	Description
DISPAY	n: 0~4	0: quad display 1: display channel 1 2: display channel 2 3: display channel 3 4: display channel 4

How to set osd enabled

Syntax `http://192.168.1.1/cgi-bin/quad?OSD_ENABLED=0xnn`

How to get osd enabled status

Syntax `http://192.168.1.1/cgi-bin/quad?OSD_ENABLED`

<parameter>	<values>	Description
OSD_ENABLED	0xnn : hexadecimal	BIT0: 1:title name enabled BIT1: 1:video loss enabled BIT2: 1:motion detect enabled BIT3: 1:date time enabled BIT4: 1:DIO status enabled BIT5: Reserved BIT6: Reserved BIT7: Reserved

How to set motion detect enabled

Syntax	<code>http://192.168.1.1/cgi-bin/quad?MOTION_ENABLED=0xnn</code>
---------------	--

How to get motion enabled status

Syntax	<code>http://192.168.1.1/cgi-bin/quad?MOTION_ENABLED</code>
---------------	---

<parameter>	<values>	Description
MOTION_ENABLED	0xnn : hexadecimal	BIT0: 1:channel 1 motion detect enabled BIT1: 1:channel 2 motion detect enabled BIT2: 1:channel 3 motion detect enabled BIT3: 1:channel 4 motion detect enabled BIT4: Reserved BIT5: Reserved BIT6: Reserved BIT7: Reserved

How to set sensitive for motion detect

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&SENSITIVE=m</code>
---------------	--

How to get sensitive setting

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&SENSITIVE</code>
---------------	--

<parameter>	<values>	Description
CHANNEL	n: 1~4	channel number
SENSITIVE	m: 0~15	0: more sensitive . .. 8: middle sensitive . .. 15: less sensitive

How to set title name

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&TITLE_NAME=xxxxxxx</code>
---------------	---

How to get title name setting

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&TITLE_NAME</code>
---------------	---

<parameter>	<values>	Description
CHANNEL	n: 1~4	channel number
TITLE_NAME	xxxxxxx: title name	max length: 8bytes ASCII: A~Z & 0~9 & space

How to set brightness

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&BRIGHTNESS=m</code>
---------------	---

How to get brightness setting

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&BRIGHTNESS</code>
---------------	---

<parameter>	<values>	Description
CHANNEL	n: 1~4	channel number
BRIGHTNESS	m: 0~255	0: -25IRE . . . 128: 0IRE . . . 255: 25IRE

How to set contrast

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&CONTRAST=m</code>
---------------	---

How to get contrast setting

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&CONTRAST</code>
---------------	---

<parameter>	<values>	Description
CHANNEL	n: 1~4	channel number

CONTRAST	m: 0~255	0: 0% . .. 128: 100% . .. 255: 200%
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How to set saturation

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&SATURATION=m</code>
---------------	---

How to get saturation setting

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&SATURATION</code>
---------------	---

<parameter>	<values>	Description
CHANNEL	n: 1~4	channel number
SATURATION	m: 0~255	0: 0% . .. 128: 100% . .. 255: 200%

How to set hue

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&HUE =m</code>
---------------	---

How to get contrast setting

Syntax	<code>http://192.168.1.1/cgi-bin/quad?CHANNEL=n&HUE</code>
---------------	--

<parameter>	<values>	Description
CHANNEL	n: 1~4	channel number
HUE	m: 0~255	0: -180degree . .. 128: 0degree . .. 255: 180degree

How to get system information

Syntax	<code>http://192.168.1.1/cgi-bin/system?INFO</code>
---------------	---

Http return context

Firmware Version = SED2300Q-20050404.02-AC-D1

MAC Address = 00:0F:7C:00:00:67

Factory Default Type = NTSC (0x51)

Serial ID = SED2300-04I-8-00027

Model Number = SED-2300Q (11)

How to set factory default

Syntax	<code>http://192.168.1.1/cgi-bin/system?FACTORY_DEFAULT</code>
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How to save all setting to flash and reboot system

Syntax	<code>http://192.168.1.1/cgi-bin/system?SAVE_REBOOT</code>
---------------	--

4

URL Command for Transcoder

URL Command for Transcoder

This category lists the commands that is related to MPEG-4 settings.

The syntax of the command is listed as follow:

`http://<IP Address>/cgi-bin/url.cgi?USER=<Account Name>&PWD=<Password>&<Parameters>`

Host Setting

Parameter	Value	Description
LAN_HOSTNAME		String (32 Bytes with terminal 0)
LAN_IP	x.x.x.x : IP address	LAN IP Address
LAN_NETMASK	x.x.x.x : IP address Mask	Netmask Address Format
LANGUAGE	0 ~ MAX LANGUAGE SUPPORT	
BAUDRATE	1 ~ 7	2400, 4800, 9600, 19200, 38400, 57600, 115200 BPS
UARTSETTING	0~2	0x00, 0x08, 0x18
OSD_X	8 ~ 96	OSD Upper Left X
OSD_Y	8 ~ 96	OSD Upper Left Y
VIDEO_TV	0, 1	0 : PAL, 1 : NTSC
VIDEO_OSD	1, 2, 4, 8, 16, 32	0x01:Time Code 0x02:Server IP 0x04:Camera Name 0x08:Local IP 0x10:Motion Detect 0x20:DI
VOL_AUDIOOUT	0, 1, 2, 3	0: mute 1: small 2: middle 3: large
VOL_AUDIOIN	0, 1, 2, 3	0: mute 1: small 2: middle 3: large

WAN Setting

Parameter	Value	Description
WAN_TYPE	1 ~ 3	1 : Dynamic IP 2 : Static IP 3 : PPPoE
WAN_IP	x.x.x.x : IP address	WAN IP Addrss
WAN_NETMASK	x.x.x.x : IP address Mask	Netmask Address Format
WAN_GATEWAY	x.x.x.x : IP address	Gateway Address
WAN_PPPOE_USERNAME		String (32 Bytes with terminal 0)
WAN_PPPOE_PASSWORD		String (32 Bytes with terminal 0)
DNS_PRIMARY		IP Address Format
DNS_SECONDARY		IP Address Format
DDNS_TYPE	1, 2	1 : Disabled 2 : Enabled
DDNS_HOSTNAME		String (32 Bytes with terminal 0)
DDNS_SERVICE	As right →	members.dyndns.org => dyndns members.3322.org => qdns www,EZ-IP.Net => ezip www.penguinpowered.com => pgpow members.dhs.org => dhs update.ods.org => ods cgi.tzo.com => tzo members.easydns.com => easydns www.justlinux.com => justlinux

		www.dyns.cx => dyns www.hn.org => hn www.zoneedit.com => zoneedit
DDNS_USERNAME		String
DDNS_PASSWORD		String

Video Server Connection Setting

URL Command Name	Value	Mark
PROTOCOLVERSION	1, 2	Version 1 or Version 2
CHANNEL	1 ~ 16	Channel Number
CHxx_VIDEO_CONNECT	0, 1, 2	0: MultiCast 1: UniCast 2: RTP
CHxx_VIDEO_VARFPS	0, 1, 2, 3, 4	0: Using Server's Setting 1: 30 (NTSC) or 25 (PAL) 2: 6 (NTSC) or 5 (PAL) 3: 3 (NTSC) or 3 (PAL) 4: 1 (NTSC) or 1 (PAL)
CHxx_VIDEO_STREAM	0, 1	0 : Disable, 1 : Enale
CHxx_VIDEO_AUDIO	0, 1	0 : Disable, 1 : Enale
CHxx_VIDEO_CONTROL	0, 1	0 : Disable, 1 : Enale
CHxx_VIDEO_TCP_IP	x.x.x.x : IP address	Server IP Address
CHxx_VIDEO_MULTICAST_IP	x.x.x.x : IP address	Server Multicast Address
CHxx_VIDEO_USERNAME		String (32 Bytes with terminal 0)
CHxx_VIDEO_PASSWORD		String (32 Bytes with terminal 0)
CHxx_PORT_STREAMIN		Stream Port Number
CHxx_PORT_CONTROL		Control & AudioOut Port Number
CHxx_PORT_MULTICAST		Server's Multicast Port Number
CHxx_PORT_RTP		Server's RTP Port Number
CHxx_PORT_HTTP		Server's Http Port Number
CHxx_TIME		Server's Dwell Time (seconds) 0 means infinite

User Account Setting

URL Command Name	Value	Mark
ACCOUNT_ROOT_NAME		String (32 Bytes with terminal 0)
ACCOUNT_ROOT_PASSWORD		String (32 Bytes with terminal 0)
ACCOUNT_USER_NAME_1		String (32 Bytes with terminal 0)
ACCOUNT_USER_PASSWORD_1		String (32 Bytes with terminal 0)
ACCOUNT_USER_NAME_2		String (32 Bytes with terminal 0)
ACCOUNT_USER_PASSWORD_2		String (32 Bytes with terminal 0)
ACCOUNT_USER_NAME_3		String (32 Bytes with terminal 0)
ACCOUNT_USER_PASSWORD_3		String (32 Bytes with terminal 0)
ACCOUNT_USER_NAME_4		String (32 Bytes with terminal 0)
ACCOUNT_USER_PASSWORD_4		String (32 Bytes with terminal 0)
ACCOUNT_USER_NAME_5		String (32 Bytes with terminal 0)
ACCOUNT_USER_PASSWORD_5		String (32 Bytes with terminal 0)
ACCOUNT_USER_NAME_6		String (32 Bytes with terminal 0)
ACCOUNT_USER_PASSWORD_6		String (32 Bytes with terminal 0)
ACCOUNT_USER_NAME_7		String (32 Bytes with terminal 0)
ACCOUNT_USER_PASSWORD_7		String (32 Bytes with terminal 0)
ACCOUNT_USER_NAME_8		String (32 Bytes with terminal 0)
ACCOUNT_USER_PASSWORD_8		String

		(32 Bytes with terminal 0)
ACCOUNT_USER_NAME_9		String (32 Bytes with terminal 0)
ACCOUNT_USER_PASSWORD_9		String (32 Bytes with terminal 0)
ACCOUNT_USER_NAME_10		String (32 Bytes with terminal 0)
ACCOUNT_USER_PASSWORD_10		String (32 Bytes with terminal 0)

Port Setting

URL Command Name	Value	Mark
PORT_HTTP'		Host HTTP PORT
PORT_HOST_SEARCH_1		HOST SEARCH PORT (Client to Server)
PORT_HOST_SEARCH_2		HOST SEARCH PORT (Server to Client)

URL Command for Transcoder Return Value

This category lists the commands that is related to Transcoder return value.

The syntax of the command is listed as follow:

`http://<IP Address>/cgi-bin/url.cgi?USER=<Account Name>&PWD=<Password>&<Parameters>`

Parameter	Description
HOST	Return all the items of host setting page
WAN	Return all the items of wan setting page
VIDEOSERVER	Return all the items of video setting page
ACCOUNT	Return all the items of user account page
PORT	Return all the items of port setting page
SYSTEM_LOG	Return all the items of system info page

URL Command for Transcoder System Setting

This category lists the commands that is related to Transcoder system settings.

The syntax of the command is listed as follow:

`http://<IP Address>/cgi-bin/url.cgi?USER=<Account Name>&PWD=<Password>&<Parameters>`

Parameter	Description
FACTORY_DEFAULT	Load factory default
SAVE_REBOOT	Save and Reboot
SWITCH	Switch to another video server or IP camera

URL Command for Transcoder Variable Frame Rate Setting

This category lists the commands that is related to Transcoder variable frame rate settings.

The syntax of the command is listed as follow:

`http://<IP Address>/cgi-bin/url.cgi?USER=<Account Name>&PWD=<Password>&<Parameters>`

Parameter	Description
VIDEO_VARFPS	Change the Variable Frame Rate on the fly in the current channel

Note that the defition is the same as CHxx_VIDEO_VARFPS

URL Command for Transcoder Connecting NVR

This category lists the commands that is related to Transcoder connecting to NVR setting

The syntax of the command is listed as follow:

`http://<IP Address>/cgi-bin/url.cgi?netSendVideoCmd&`

Parameter	Description
netSendVideoCmd	The URL Command for supporting NVR Ex: 0006ANET <code>http://192.168.0.200/A2100?USER=Admin&PWD=123456&Cid=6</code>

URL Command for Transcoder Samples

This category lists the sample URL Commands for Transcoder

How to get Transcoder host setting

Syntax	<code>http://192.168.0.200/cgi-bin/url.cgi?USER=Admin&PWD=123456&HOST</code>
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How to set Transcoder host setting

Syntax	<code>http://192.168.0.200/cgi-bin/url.cgi?USER=Admin&PWD=123456&LAN_HOSTNAME=ACTi&LAN_IP=192.168.1.20&LAN_NETMASK=255.255.255.0&LANGUAGE=1&BAUDRATE=4</code>
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How to save and reboot Transcoder

Syntax	<code>http://192.168.0.200/cgi-bin/url.cgi?USER=Admin&PWD=123456&SAVE_REBOOT</code>
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How to get Transcoder system log

Syntax	<code>http://192.168.0.200/cgi-bin/url.cgi?USER=Admin&PWD=123456&SYSTEM_LOG</code>
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How to set Transcoder to factory default

Syntax	<code>http://192.168.0.200/cgi-bin/url.cgi?USER=Admin&PWD=123456&FACTORY_DEFAULT</code>
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How to request Transcoder to switch to another video server

Syntax	<code>http://192.168.0.200/cgi-bin/url.cgi?USER=Admin&PWD=123456&VIDEO_TCP_IP=192.168.0.100&VIDEO_USERNAME=Admin&VIDEO_PASSWORD=123456&SWITCH</code>
---------------	--