API Commands for Video Encoders Decoders

HTTP

DETAILED COMMANDS

ANT-38000
ANT-35000A
ANT-32000A/AS
ANT-3410
ANT-3300

ANT-36000 Decoder (see appendix to this API)
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Also Antrica IP cameras

2017 March

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1. Overview

This document describes configuration parameters of video servers and IP cameras of TCAM series. These parameters are used to control system operations, and they can be read or write in more than one methods from client application.
Applications based on SDK(TVSC control) can use GetServerConfig and SetServerConfig API. HTTP API users can use ReadParam and WriteParam API.

Each parameter is described in the following form.

PARAMETER_NAME

Explanation of the parameter

Type Type of the parameter

Values Possible values

Comment

Comment on the parameter

Side Effect

The effect of setting of the parameter on the system

String for HTTP API

Example for using HTTP API

TVSC user and HTTP API user should use each parameter in different ways.

Items	TVSC User	HTTP API User
Parameter name	Use 2 bytes value assigned to each parameter	Uses the string for parameter
Type and Values	Type of each parameter should be recognized correctly. The value in **Values** part should be of the type specified in **Type** part.	**Type** part is not used. String is used as the value in **Values** part.
Comment	Common	
Side effect	Common	
String for HTTP API		Example for using a string for reading/writing a parameter

		using HTTP API

These are simple examples to write video brightness to 45 and video contrast to 55.

- HTTP API user

```
http://<server>/httpapi/WriteParam?action=writeparam&VID_
BRIGHTNESS=45&VID_CONTRAST=55
```

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

- TVSC user

```
BYTE bright = 45;
BYTE contr = 55;
stConfig sConf[2]={0};
int size = sizeof(bright);

sConf[0].nItem = 0x020A; // VID_BRIGHTNESS
sConf[0].cbSize = size;
sConf[0].pbData = (BYTE *)&bright;
sConf[1].nItem = 0x020B; // VID_CONTRAST
sConf[1].cbSize = size;
sConf[1].pbData = (BYTE *)&contr;
VARIANT_BOOL b;
ptr->SetServerConfig(m_ChID, 2, sConf, &b);
```

2. Configuration Parameters

2.1 Parameters and Groups

Configuration parameters are grouped into several groups. A group is also referred as a ‘page’.

Page(Group)	Item	Value	Description
system	SYS_MODE	0x0101	Reboot
	SYS_STANDARD	0x0102	Reboot
	SYS_PROTOCOL	0x0103	Not used
	SYS_SYSTEMID	0x0104	
	SYS_VERSION	0x0105	Read-only
	SYS_STARTTIME	0x0106	Read-only
	SYS_CURRENTTIME	0x0107	
	SYS_REBOOT	0x0108	Write-only, Reboot
	SYS_ISIPCAM	0x0109	Read-only
	SYS_TIMEZONE	0x010A	
	SYS_DLSENABLE	0x010B	
	SYS_NTPENABLE	0x010C	
	SYS_NTPDOMAIN	0x010D	
	SYS_LOGINSKIPENABLE	0x010E	
	SYS_LOGINSKIPPRIORITY	0x010F	
	SYS_TRANSCODE	0x0110	Not used
	SYS_VMODE	0x0111	Not used
	SYS_AMODE	0x0112	Not used
	SYS_REVERSECONNECT	0x0113	Not used
	SYS_RELAYMODE	0x0114	Not used
	SYS_CHANNELUSE	0x0115	Not used
	SYS_LANGUAGE	0x0116	
	SYS_RESET	0x0117	Write-only, Reboot
	SYS_RESET_V2		Write-only, Reboot
	SYS_MODELNAME	0x0118	Read-only
	SYS_MODELNAME2	0x0119	Not used
	SYS_BOARDID	0x011A	Read-only

	SYS_NUMOFVIDEO	0x011B	Read-only
	SYS_ NUMOFVIDEO	0x011C	Read-only
	SYS_ NUMOFSENSOR	0x011D	Read-only
	SYS_ NUMOFALARM	0x011E	Read-only
	SYS_ TIMEFORMAT	0x011F	
	SYS_CURRENT_TEMP		Read-only
	SYS_INTRA_Q		
Video **See Note3**	VID_PREFERENCE	0x0201	
	VID_RESOLUTION	0x0202	
	VID_FRAMERATE	0x0203	
	VID_QUALITY	0x0204	
	VID_BANDWIDTH	0x0205	
	VID_IINTERVAL	0x0206	
	VID_MDTHRESHOLD	0x0207	
	VID_MOTIONAREA	0x0208	
	VID_MDSENSITIVITY	0x0209	Not used
	VID_BRIGHTNESS	0x020A	
	VID_CONTRAST	0x020B	
	VID_HUE	0x020C	
	VID_SATURATION	0x020D	
	VID_BURNINID	0x020E	
	VID_BURNINTIME	0x020F	
	VID_BURNINPOSITION	0x0210	
	VID_DEINTERLACE	0x0211	Not used
	VID_ENCODEDELAY	0x0212	Not used
	VID_DECODEDELAY	0x0213	Not used
	VID_NODELAYFLAG	0x0214	Not used
	VID_ALGORITHM	0x0215	Not used
	VID_MOTIONENABLE	0x0216	
	VID_INFODISPID	0x0217	
	VID_INFODISPTIME	0x0218	
	VID_INFODISPPOSITION	0x0219	
	VID_LOWLATENCY	0x021A	Not used
	VID_USEDUAL	0x021B	
	VID_DUALALGORITHM	0x021C	

	VID_DUALPREFERENCE	0x021D	
	VID_DUALRESOLUTION	0x021E	
	VID_DUALFRAMERATE	0x021F	
	VID_DUALQUALITY	0x0220	
	VID_DUALBANDWIDTH	0x0221	
	VID_DUALIINTERVAL	0x0222	
	VID_INPUTFORMAT	0x0223	
	VID_OUTPUTFORMAT	0x0224	
	VID_BURNINSIZE	0x0225	
	VID_PREVIEWENABLE	0x0226	Not used
	VID_FRAMEENCODE	0x0227	
	VID_FPSREAD	0x0228	Read-only
	VID_DISPLAYDISABLE	0x0229	
	VID_CURENCBITRATE	0x022A	Read-only
	VID_CURDECBITRATE	0x022B	Read-only
	VID_CURENCFPS	0x022C	Read-only
	VID_CURDECFPS	0x022D	Read-only
	VID_DUALCURENCBITRATE	0x022E	Read-only
	VID_DUALCURDECBITRATE	0x022F	Read-only
	VID_DUALCURENCFPS	0x0230	Read-only
	VID_DUALCURDECFPS	0x0231	Read-only
	VID_SCALEENABLE,	0x0232	
	VID_DUALSCALEENABLE	0x0233	
	VID_CAPRESOLUTION	0x0234	Read-only
	VID_CAPBANDWIDTHMAX	0x0235	Read-only
	VID_CAPBANDWIDTHMIN	0x0236	Read-only
	VID_CAPFRAMERATEMAX	0x0237	Read-only
	VID_CAPFRAMERATEMIN	0x0238	Read-only
	VID_CAPDUALRESOLUTION	0x0239	Read-only
	VID_CAPDUALBANDWIDTHMAX	0x023A	Read-only
	VID_CAPDUALBANDWIDTHMIN	0x023B	Read-only
	VID_CAPDUALFRAMERATEMAX	0x023C	Read-only
	VID_CAPDUALFRAMERATEMIN	0x023D	Read-only
	VID_INPUTCOLORFORMAT	0x023E	
	VID_INPUTDEINTERLACE	0x023F	

	VID_ADAPTIVEMINBAND	0x0240	Not used
	VID_H264PROFILE	0x0241	
	VID_DUALH264PROFILE	0x0242	
	VID_MDDISABLEONPTZ	0x0243	
	VID_DM3DCOMBOFILTER	0x0244	
	VID_DM3DNOISEREDUCTION	0x0245	
	VID_DM3DDEINTERLACE	0x0246	
	VID_DMWDRMODE	0x0247	
	VID_DMDEMISTMODE	0x0248	
	VID_USETRIPLE1	0x0249	
	VID_TRIPLEALGORITHM1	0x024A	
	VID_TRIPLEPREFERENCE1	0x024B	
	VID_TRIPLERESOLUTION1	0x024C	
	VID_TRIPLEFRAMERATE1	0x024D	
	VID_TRIPLEQUALITY1	0x024E	
	VID_TRIPLEBANDWIDTH1	0x024F	
	VID_TRIPLEIINTERVAL1	0x0250	
	VID_TRIPLESCALEENABLE1	0x0251	
	VID_TRIPLEH264PROFILE1	0x0252	
	VID_TRIPLECURENCBITRATE1	0x0253	
	VID_TRIPLECURDECBITRATE1	0x0254	
	VID_TRIPLECURENCFPS1	0x0255	
	VID_TRIPLECURDECFPS1	0x0256	
	VID_USETRIPLE2	0x0257	
	VID_TRIPLEALGORITHM2	0x0258	
	VID_TRIPLEPREFERENCE2	0x0259	
	VID_TRIPLERESOLUTION2	0x025A	
	VID_TRIPLEFRAMERATE2	0x025B	
	VID_TRIPLEQUALITY2	0x025C	
	VID_TRIPLEBANDWIDTH2	0x025D	
	VID_TRIPLEIINTERVAL2	0x025E	
	VID_TRIPLESCALEENABLE2	0x025F	
	VID_TRIPLEH264PROFILE2	0x0260	
	VID_TRIPLECURENCBITRATE2	0x0261	
	VID_TRIPLECURDECBITRATE2	0x0262	

	VID_TRIPLECURENCFPS2	0x0263	
	VID_TRIPLECURDECFPS2	0x0264	
	VID_CAPTRIPLERESOLUTION1	0x0265	Read-only
	VID_CAPTRIPLEBANDWIDTHMAX1	0x0266	Read-only
	VID_CAPTRIPLEBANDWIDTHMIN1	0x0267	Read-only
	VID_CAPTRIPLEFRAMERATEMAX 1	0x0268	Read-only
	VID_CAPTRIPLEFRAMERATEMIN1	0x0269	Read-only
	VID_CAPTRIPLERESOLUTION2	0x026A	Read-only
	VID_CAPTRIPLEBANDWIDTHMAX2	0x026B	Read-only
	VID_CAPTRIPLEBANDWIDTHMIN2	0x026C	Read-only
	VID_CAPTRIPLEFRAMERATEMAX 2	0x026D	Read-only
	VID_CAPTRIPLEFRAMERATEMIN2	0x026E	Read-only
	VID_MOTIONREGION	0x0270	
	VID_DUALROIDISABLE		
	VID_TRIPLEROIDISABLE1		
	VID_TRIPLEROIDISABLE2		
	VID_ROIPos1X VID_ROIPos1Y VID_ROIPos1W VID_ROIPos1H VID_ROIPos2X VID_ROIPos2Y VID_ROIPos2W VID_ROIPos2H VID_ROIPos3X VID_ROIPos3Y VID_ROIPos3W VID_ROIPos3H		
	VID_CROPENABLE		
audio	AUD_AUDIOMODE	0x0301	
	AUD_SAMPLERATE	0x0302	Not used
	AUD_BITRATE	0x0303	
	AUD_GAIN	0x0304	

	AUD_DELAY	0x0305	Not used
	AUD_ALGORITHM	0x0306	
	AUD_HALFDUPLEX	0x0307	Not used
	AUD_NOISETHR	0x0308	Not used
	AUD_LOOPBACK	0x0309	Not used
	AUD_RECVPORT	0x030A	
	AUD_CURENCBITRATE	0x030B	Read-only
	AUD_CURDECBITRATE	0x030C	Read-only
network	NET_LOCALIPMODE	0x0401	Reboot
	NET_REMOTECONNECT	0x0402	
	NET_REMOTEIPMODE	0x0403	Not used
	NET_REMOTECHANNEL	0x0404	
	NET_LOCALIP	0x0405	Reboot
	NET_LOCALGATEWAY	0x0406	Reboot
	NET_LOCALSUBNET	0x0407	Reboot
	NET_ADSLID	0x0408	Not used
	NET_ADSLPASSWORD	0x0409	Not used
	NET_REMOTEIP	0x040A	Not used
	NET_DOMAINNAME	0x040B	
	NET_MULTICASTIP	0x040C	Reboot
	NET_DNSIP	0x040D	Reboot
	NET_DDNSSERVERIP	0x040E	Not used
	NET_DDNSREGISTER	0x040F	
	NET_KEEPALIVETIME	0x0410	Not used
	NET_KEEPALIVEINTERVAL	0x0411	Not used
	NET_BASEPORT	0x0412	Reboot
	NET_HTTPPORT	0x0413	
	NET_FLOWCONTROLMODE	0x0414	
	NET_AUTOIINTERVAL	0x0415	Not used
	NET_CURRENTIP	0x0416	Read-only
	NET_CURRENTDOMAIN	0x0417	Read-only
	NET_MAC	0x0418	Read-only
	NET_DYNDNSDOMAIN	0x0419	
	NET_DYNDNSID	0x041A	
	NET_DYNDNSPASSWD	0x041B	

	NET_PROTOCOL	0x041C	
	NET_DNSAUTO	0x041D	Reboot
	NET_DNSIP2	0x041E	Reboot
	NET_BANDWIDTH	0x041F	Not used
	NET_CLIENTPORT	0x0420	Not used
	NET_BITRATECONTROL	0x0421	Not used
	NET_RTSPPORT	0x0422	
	NET_WATCHHOMEENABLE	0x0423	Not used
	NET_WATCHHOMEIP	0x0424	Not used
	NET_WATCHHOMECONTROLPORT	0x0425	Not used
	NET_WATCHHOMEIMAGEPORT	0x0426	Not used
	NET_WATCHHOMELIVECHECKTIME	0x0427	Not used
	NET_WATCHHOMEMOTIONENABLE	0x0428	Not used
	NET_UCONNECTIP	0x0429	Not used
	NET_UCONNECTPORT	0x042A	Not used
	NET_UCONNECTRETRY	0x042B	Not used
	NET_USERTPSESSION	0x042C	
	NET_RTPSESSIONPORT	0x042D	
	NET_RTPSESSIONUSER	0x042E	
	NET_RTPSESSIONFILE	0x042F	
	NET_RTPSESSIONIP	0x0430	
	NET_MAINCONNECT	0x0431	
	NET_SNMPTRAPIP	0x0432	
	NET_SNMPTRAPPORT	0x0433	
	NET_SNMPPORT	0x0434	
	NET_REMOTEUSER	0x0435	Not used
	NET_REMOTEPASS	0x0436	Not used
	NET_USESS	0x0437	
	NET_SSIP	0x0438	
	NET_SSPORT	0x0439	
	NET_SSUSER	0x043A	
	NET_SSPASS	0x043B	

	NET_REMOTEPORT	0x043C	
	NET_USERTSPAUTH	0x043D	
	NET_REMOTETYPE	0x0445	
	NET_USEHTTPAPIAUTH	0x0447	
	NET_UPNPENABLE	0x0453	
	NET_ZEROCONFENABLE	0x0454	
	NET_IPV6ADDRESS	0x0455	
	NET_IPV6SUBNETPREFIXLENGTH	0x0456	
	NET_IPV6DEFAULTGATEWAY	0x0457	
	NET_WSDISCOVERYENABLE	0x0458	
	NET_HTTPSPORT	0x0459	
	NET_IPV6LINKLOCALADDRESS	0x045A	
	NET_TTL	0x045C	
	NET_RTPSESSIONVIDEO	0x045E	
	NET_QOSENABLE		
	NET_DSCP		
	NET_SSLENABLE		
	NET_SSLCRYPTO		
	NET_SSLUSER		
	NET_SSLPASS		
	NET_SSLADDRESS		
	NET_SSLPORT		
serial	SER_PROTOCOL_1	0x0501	
	SER_BITRATE_1	0x0502	
	SER_DATABIT_1	0x0503	
	SER_PARITY_1	0x0504	
	SER_STOPBIT_1	0x0505	
	SER_PROTOCOL_2	0x0506	
	SER_BITRATE_2	0x0507	
	SER_DATABIT_2	0x0508	
	SER_PARITY_2	0x0509	
	SER_STOPBIT_2	0x050A	
	SER_SENSORTYPE_1	0x050B	
	SER_SENSORTYPE_2	0x050C	
	SER_PTZTYPE	0x050D	Multi-channel **See Note4**

	SER_PTZID	0x050E	Multi-channel **See Note4**
	SER_PTZPORT	0x050F	Multi-channel **See Note4**
	SER_PROTOCOL_3	0x0510	Not used
	SER_BITRATE_3	0x0511	Not used
	SER_DATABIT_3	0x0512	Not used
	SER_PARITY_3	0x0513	Not used
	SER_STOPBIT_3	0x0514	Not used
	SER_PROTOCOL_4	0x0515	Not used
	SER_BITRATE_4	0x0516	Not used
	SER_DATABIT_4	0x0517	Not used
	SER_PARITY_4	0x0518	Not used
	SER_STOPBIT_4	0x0519	Not used
	SER_SENSORTYPE_3	0x051A	Not used
	SER_SENSORTYPE_4	0x051B	Not used
	SER_PORTMODE	0x051C	Not used
	SER_CHANNELMAP	0x051D	Not used
	SER_CHANNELPORT	0x051E	Not used
	SER_SEN1SCHESUN	0x051F	
	SER_SEN1SCHEMON	0x0520	
	SER_SEN1SCHETUE	0x0521	
	SER_SEN1SCHEWED	0x0522	
	SER_SEN1SCHETHR	0x0523	
	SER_SEN1SCHEFRI	0x0524	
	SER_SEN1SCHESAT	0x0525	
	SER_SEN2SCHESUN	0x0526	
	SER_SEN2SCHEMON	0x0527	
	SER_SEN2SCHETUE	0x0528	
	SER_SEN2SCHEWED	0x0529	
	SER_SEN2SCHETHR	0x052A	
	SER_SEN2SCHEFRI	0x052B	
	SER_SEN2SCHESAT	0x052C	
	SER_SEN3SCHESUN	0x052D	
	SER_SEN3SCHEMON	0x052E	
	SER_SEN3SCHETUE	0x052F	
	SER_SEN3SCHEWED	0x0530	

	SER_SEN3SCHETHR	0x0531	
	SER_SEN3SCHEFRI	0x0532	
	SER_SEN3SCHESAT	0x0533	
	SER_SEN4SCHESUN	0x0534	
	SER_SEN4SCHEMON	0x0535	
	SER_SEN4SCHETUE	0x0536	
	SER_SEN4SCHEWED	0x0537	
	SER_SEN4SCHETHR	0x0538	
	SER_SEN4SCHEFRI	0x0539	
	SER_SEN4SCHESAT	0x053A	
	SER_DIRECTKEYBOARD	0x053B	
	SER_POSSESSIONTIME	0x053C	
event	EVT_LOCALSENSOR_1	0x0601	
	EVT_LOCALSENSOR_2	0x0602	
	EVT_REMOTESENSOR_1	0x0603	
	EVT_REMOTESENSOR_2	0x0604	
	EVT_LOCALLOSS	0x0605	
	EVT_REMOTELOSS	0x0606	
	EVT_LOCALMOTION	0x0607	
	EVT_REMOTEMOTION	0x0608	
	EVT_DISCONNECT	0x0609	
	EVT_BEEPDURATION	0x060A	
	EVT_RELAYDURATION_1	0x060B	
	EVT_RELAYDURATION_2	0x060C	
	EVT_RECORDMODE	0x060D	Not used
	EVT_PRETIME	0x060E	
	EVT_POSTTIME	0x060F	
	EVT_LOCALSENSOR_3	0x0610	Not used
	EVT_LOCALSENSOR_4	0x0611	Not used
	EVT_REMOTESENSOR_3	0x0612	Not used
	EVT_REMOTESENSOR_4	0x0613	Not used
	EVT_RELAYDURATION_3	0x0614	Not used
	EVT_RELAYDURATION_4	0x0615	Not used
	EVT_EMAILSERVER	0x0616	
	EVT_EMAILID	0x0617	

	EVT_EMAILPASS	0x0618	
	EVT_EMAILDEST	0x0619	
	EVT_EMAILVATTACH	0x061A	
	EVT_EMAILAUTHENT	0x061B	
	EVT_FTPSERVER	0x061C	
	EVT_FTPPORT	0x061D	
	EVT_FTPID	0x061E	
	EVT_FTPPASS	0x061F	
	EVT_EMAILPORT	0x0620	
	EVT_PRESETLOCALSENSOR_1	0x0621	
	EVT_PRESETLOCALSENSOR_2	0x0622	
	EVT_PRESETLOCALSENSOR_3	0x0623	Not used
	EVT_PRESETLOCALSENSOR_4	0x0624	Not used
	EVT_PRESETREMOTESENSOR_1	0x0625	
	EVT_PRESETREMOTESENSOR_2	0x0626	
	EVT_PRESETREMOTESENSOR_3	0x0627	Not used
	EVT_PRESETREMOTESENSOR_4	0x0628	Not used
	EVT_PRESETLOCALLOSS	0x0629	
	EVT_PRESETLOCALMOTION	0x062A	
	EVT_PRESETREMOTELOSS	0x062B	
	EVT_PRESETREMOTEMOTION	0x062C	
	EVT_PRESETDISCONNECT	0x062D	
	EVT_EMAILSENDER	0x062E	
	EVT_FTPCONTUPLOAD	0x062F	
	EVT_FTPCONTDURATION	0x0630	
	EVT_FTPCONTINTERVAL	0x0631	
	EVT_FTPUPLOADVIDEO	0x0632	Not used
	EVT_LOCALAUDIODETECTION		
	EVT_REMOTEAUDIODETECTION		
	EVT_LINECROSSING		IVS License
	EVT_INTRUSION		IVS License
	EVT_TAMPERING		IVS License
	EVT_PRESETLOCALAUDIODETECTION		
	EVT_PRESETREMOTEAUDIODETECTION		
	EVT_PRESETLINECROSSING		IVS License

	EVT_PRESETINTRUSION		IVS License
	EVT_PRESETTAMPERING		IVS License
	EVT_OSDLOCALSENSOR_1 EVT_OSDLOCALSENSOR_2 EVT_OSDLOCALSENSOR_3 EVT_OSDLOCALSENSOR_4		
	EVT_OSDREMOTESENSOR_1 EVT_OSDREMOTESENSOR_2 EVT_OSDREMOTESENSOR_3 EVT_OSDREMOTESENSOR_4		
	EVT_OSDLOCALLOSS		
	EVT_OSDREMOTELOSS		
	EVT_OSDLOCALMOTION		
	EVT_OSDREMOTEMOTION		
	EVT_OSDDISCONNECT		
	EVT_OSDLOCALAUDIODETECTION		
	EVT_OSDREMOTEAUDIODETECTION		
	EVT_OSDLINECROSSING		IVS License
	EVT_OSDINTRUSION		IVS License
	EVT_OSDTAMPERING		IVS License
	EVT_HTTPLOCALSENSOR_1 EVT_HTTPLOCALSENSOR_2 EVT_HTTPLOCALSENSOR_3 EVT_HTTPLOCALSENSOR_4		
	EVT_HTTPREMOTESENSOR_1 EVT_HTTPREMOTESENSOR_2 EVT_HTTPREMOTESENSOR_3 EVT_HTTPREMOTESENSOR_4		
	EVT_HTTPLOCALLOSS		
	EVT_HTTPREMOTELOSS		
	EVT_HTTPLOCALMOTION		
	EVT_HTTPREMOTEMOTION		
	EVT_HTTPDISCONNECT		
	EVT_HTTPLOCALAUDIODETECTION		
	EVT_HTTPREMOTEAUDIODETECTION		

	EVT_HTTPLINECROSSING		IVS License
	EVT_HTTPINTRUSION		IVS License
	EVT_HTTPTAMPERING		IVS License
display	DIS_LOCALSENSOR	0x0701	
	DIS_REMOTESENSOR	0x0702	
	DIS_MOTION	0x0703	
	DIS_SITEVIEW	0x0704	
	DIS_SITEPOSITION	0x0705	
	DIS_DISCONNECTSCREEN	0x0706	
	DIS_LEDVIEW	0x0707	
	DIS_BRIGHTNESS	0x0708	Not used
	DIS_CONTRAST	0x0709	Not used
	DIS_HUE	0x070A	Not used
	DIS_SATURATION	0x070B	Not used
	DIS_BACKLIGHTON	0x070C	Not used
	DIS_KEYBEEPENABLE	0x070D	Not used
	DIS_QUADOUT	0x070E	Not used
	DIS_ROTATETIME	0x070F	Not used
user	USR_LOGINID	0x0801	Not used
	USR_LOGINPASS	0x0802	Not used
	USR_DEL	0x0803	Write-only
	USR_ADD	0x0804	Write-only
	~~USR_MODPASS~~	~~0x0805~~	~~Write-only~~
	USR_MODPRI	0x0806	Write-only
	USR_LIST	0x0807	Read-only
	USR_ACCESSEDURL	0x0808	Not used
	USR_PRIORITY	0x0809	Not used
	USR_CHECKUSER	0x080A	Write-only
record	REC_ENABLE	0x0901	Reboot
	REC_DISKTYPE	0x0902	Read-only
	REC_DISKSIZE	0x0903	Read-only
	REC_DISKAVAILABLE	0x0904	Read-only
	REC_MANUALREC	0x0905	
	REC_OVERWRITE	0x0906	
	REC_EVTTYPE1	0x0907	

	REC_EVTTYPE2	0x0908	
	REC_EVTTYPE3	0x0909	
	REC_EVTTYPE4	0x090A	
	REC_PRETIME	0x090B	
	REC_POSTTIME	0x090C	
	REC_SCHESUN	0x090D	
	REC_SCHEMON	0x090E	
	REC_SCHETUE	0x090F	
	REC_SCHEWED	0x0910	
	REC_SCHETHU	0x0911	
	REC_SCHEFRI	0x0912	
	REC_SCHESAT	0x0913	
	REC_FORMAT	0x0914	Write-only
	REC_MAXFILESIZE	0x0915	
	REC_DISKINFO		Read-only
	REC_MAXFILELENGTH		
	REC_BACKUPTOFTP		
	REC_ERASEAFTERBACKUP		
	REC_STARTBACKUP		
	REC_RECORDVIDEO		
	REC_RECORDFILEFORMAT		
PTZ **See Note5**	PTZ_AUTOPARKINGTIME		
	PTZ_AUTOPARKINGACTION		
	PTZ_AUTOPARKINGACTION1 PTZ_AUTOPARKINGACTION2 PTZ_AUTOPARKINGACTION3 PTZ_AUTOPARKINGACTION4		
	PTZ_GROUPxxACTIONyy		
	PTZ_GROUPxxDWELLyy		
	PTZ_GROUPxxOPTIONyy		
	PTZ_GROUPxxENABLEyy		
	PTZ_GROUPxxWITHTRACKING		
	PTZ_SWINGENABLExx		
	PTZ_SWING1STOPSxx		
	PTZ_SWING2NDPOSxx		

	PTZ_SWINGSPEEDxx		
	PTZ_PTCondTime		
	PTZ_PTCondDuration		
	PTZ_PTName		
	PTZ_ExtPTZAddr		
	PTZ_ExtPTZHttpPort		
	PTZ_ExtPTZBasePort		
	PTZ_ExtPTZUse		
	PTZ_ExtPTZDragandZoom		
	PTZ_ExtPTZAutoMode		
	PTZ_ExtPTZZoomEffective		
	PTZ_ExtPTZPauseDuration		
camera **See Note5**	CAM_SONY_WBMode	**See Note6**	Multi-config **See Note7**
	CAM_SONY_RGain		Multi-config
	CAM_SONY_BGain		Multi-config
	CAM_SONY_AEMode		Multi-config
	CAM_SONY_DSSMode		Multi-config
	CAM_SONY_DSSLimit		Multi-config
	CAM_SONY_DN		Multi-config
	CAM_SONY_DN_Threshold		Multi-config
	CAM_SONY_ND_Threshold		Multi-config
	CAM_SONY_FLIP		Multi-config
	CAM_SONY_DZ		Multi-config
	CAM_SONY_WDR		Multi-config
	CAM_SONY_BLC		Multi-config
	CAM_SONY_Brightness		Multi-config
	CAM_SONY_Iris		Multi-config
	CAM_SONY_Shutter		Multi-config
	CAM_SONY_Gain		Multi-config
	CAM_SONY_APT_LEVEL		Multi-config
	CAM_SONY_MIRROR		Multi-config
	CAM_SONY_NR		Multi-config
	CAM_SONY_MinFocusLength		Multi-config
	CAM_SONY_IS		Multi-config
	CAM_SONY_GammaMode		Multi-config

	CAM_SONY_GammaOffset		Multi-config
	CAM_SONY_Gamma256stepsPlus CAM_SONY_Gamma256stepsMinus		Multi-config
	CAM_SONY_AFSensitivity		Multi-config
	CAM_SONY_DefogMode		Multi-config
	CAM_SONY_ColorGain		Multi-config
	CAM_SONY_ColorHue		Multi-config
	CAM_SONY_HighSensitivity		Multi-config
	CAM_SONY_MininumShutterMode		Multi-config
	CAM_SONY_MinimumShutterLimit		Multi-config
	CAM_SONY_HighlightCorrectionMode		Multi-config
	CAM_SONY_HighlightCorrectionMaskLevel		Multi-config
	CAM_SONY_ExposureCompensationMode		Multi-config
	CAM_SONY_ExposureCompensationLevel		Multi-config
	CAM_SONY_2DNR		Multi-config
	CAM_SONY_3DNR		Multi-config
	CAM_SONY_ChromaSuppress		Multi-config
	CAM_SONY_WDRDisplayBrightness		Multi-config
	CAM_SONY_WDRBrightnessCompSel		Multi-config
	CAM_SONY_WDRCompLevel		Multi-config
	CAM_SONY_FocusOffset		Multi-config
	CAM_SONY_ZoomLimit		Multi-config
	CAM_HITACHI_WBMode		Multi-config
	CAM_HITACHI_RGain		Multi-config
	CAM_HITACHI_BGain		Multi-config
	CAM_HITACHI_AEMode		Multi-config
	CAM_HITACHI_DSSLimit		Multi-config
	CAM_HITACHI_ICR		Multi-config
	CAM_HITACHI_FLIP		Multi-config
	CAM_HITACHI_WDR		Multi-config
	CAM_HITACHI_BLCMode		Multi-config
	CAM_HITACHI_BLC_LEVEL		Multi-config
	CAM_HITACHI_Exposure		Multi-config
	CAM_HITACHI_Shutter		Multi-config
	CAM_HITACHI_AGC		Multi-config

	CAM_HITACHI_AFType		Multi-config
	CAM_HITACHI_MinFocusLength		Multi-config
	CAM_HITACHI_FNRMode		Multi-config
	CAM_HITACHI_FNRValue		Multi-config
	CAM_HITACHI_FNRLevel		Multi-config
	CAM_HITACHI_YKnee		Multi-config
	CAM_HITACHI_AFOnePushMode		Multi-config
	CAM_HITACHI_ICRColor		Multi-config
	CAM_HITACHI_IRCurve		Multi-config
	CAM_HITACHI_ICRThres		Multi-config
	CAM_HITACHI_WDRAuto		Multi-config
	CAM_HITACHI_WDRAutoMode		Multi-config
	CAM_HITACHI_RatioLevel		Multi-config
	CAM_HITACHI_HiSpeedShutterSpeed		Multi-config
	CAM_HITACHI_IrisLevelOffsetData		Multi-config
	CAM_HITACHI_DZ		Multi-config
	CAM_HITACHI_EIS_EN		Multi-config
	CAM_HITACHI_EIS_FREQ		Multi-config
	CAM_HITACHI_DFOG_MODE		Multi-config
	CAM_HITACHI_DFOG_LEVEL		Multi-config
	CAM_HITACHI_EnhancedIntensityMode		Multi-config
	CAM_HITACHI_EnhancedIntensityLevel		Multi-config
	CAM_HITACHI_Pedestal0 CAM_HITACHI_Pedestal1 CAM_HITACHI_Pedestal2 CAM_HITACHI_Pedestal3 CAM_HITACHI_Pedestal4		Multi-config
	CAM_HITACHI_ColorLevel0 CAM_HITACHI_ColorLevel1 CAM_HITACHI_ColorLevel2 CAM_HITACHI_ColorLevel3 CAM_HITACHI_ColorLevel4		Multi-config
	CAM_HITACHI_MaxAGCGain		Multi-config
	CAM_HITACHI_ApertureMode		Multi-config
	CAM_HITACHI_ApertureHorizontalLevel		Multi-config

	CAM_HITACHI_ApertureVerticalLevel		Multi-config
	CAM_HITACHI_ZoomSensUpMode		Multi-config
	CAM_HITACHI_ZoomSensUpIris		Multi-config
	CAM_HITACHI_ZoomSensUpAGC		Multi-config
	CAM_HITACHI_AEControlIrisoffset		Multi-config
	CAM_HITACHI_BlacklevelControlAGC0 CAM_HITACHI_BlacklevelControlAGC1		Multi-config
	CAM_HITACHI_YgammaAGC0 CAM_HITACHI_YgammaAGC1 CAM_HITACHI_YgammaAGC2 CAM_HITACHI_YgammaAGC3		Multi-config
	CAM_P10_AGC		Multi-config
	CAM_P10_SHUTTER		Multi-config
	CAM_P10_DN		Multi-config
	CAM_P10_SSNR		Multi-config
	CAM_P10_IRIS		Multi-config
	CAM_P10_DZ		Multi-config
	CAM_P10_WBMODE		Multi-config
	CAM_P10_SUP		Multi-config
	CAM_P10_BLC		Multi-config
	CAM_P10_DIS		Multi-config
	CAM_P10_FLIP		Multi-config
	CAM_P10_BLL		Multi-config
	CAM_P10_HLL		Multi-config
	CAM_P10_WDR_LMT		Not used
	CAM_P10_WB_RED		Multi-config
	CAM_P10_WB_BLUE		Multi-config
	CAM_P10_BRIGHTNESS		Multi-config
	CAM_P10_SENS_UP_LMT		Multi-config
	CAM_P10_MAN_IRIS		Multi-config
	CAM_P10_MAN_SHUTTER		Multi-config
	CAM_P10_SHARPNESS		Multi-config
	CAM_P10_MAN_GAIN		Multi-config
	CAM_P10_WDR_LEVEL		Multi-config
	CAM_P10_HLC_COLOR		Multi-config

	CAM_P10_SSDR_MODE		Multi-config
	CAM_P10_SSDR_LEVEL		Multi-config
	CAM_P10_DNthreshold		Multi-config
	CAM_P10_NDthreshold		Multi-config
	CAM_P10_DefogMode		Multi-config
	CAM_P10_DefogLevel		Multi-config
	CAM_P10_FRZONMOVE		Multi-config
	CAM_P10_ZOOMPROPORT		Multi-config
	CAM_P10_AUTOFLIP		Multi-config
	CAM_P10_MAXJOGSPEED		Multi-config
	CAM_P10_MAXZOOMSPEED		Multi-config
	CAM_P10_DISPLAYPTZACTION		Multi-config
	CAM_P10_MAXPOSITIONMOVESPEED		Multi-config
	CAM_NXP_FLIP_HORIZON		Multi-config
	CAM_NXP_FLIP_VERTICAL		Multi-config
	CAM_NXP_TDN_MODE		Multi-config
	CAM_NXP_TDN_IR_CONTROL		Multi-config
	CAM_NXP_TDN_DAY_TH		Multi-config
	CAM_NXP_TDN_NIGHT_TH		Multi-config
	CAM_NXP_IRIS_MODE		Multi-config
	CAM_NXP_IRIS_VALUE		Multi-config
	CAM_NXP_DSS_VALUE_NIGHT		Multi-config
	CAM_NXP_DSS_VALUE_DAY		Multi-config
	CAM_NXP_AE_MODE		Multi-config
	CAM_NXP_AE_MAX		Multi-config
	CAM_NXP_GAMMA_INDEX		Multi-config
	CAM_NXP_AE_OPTION		Multi-config
	CAM_NXP_AE_TARGET		Multi-config
	CAM_NXP_CDS_DAY_TH		Multi-config
	CAM_NXP_CDS_NIGHT_TH		Multi-config
	CAM_NXP_CURRENT_Y		read only
	CAM_WONWOO_WBMode		Multi-config
	CAM_WONWOO_RGain		Multi-config
	CAM_WONWOO_BGain		Multi-config
	CAM_WONWOO_AEMode		Multi-config

	CAM_WONWOO_DSSMode		Multi-config
	CAM_WONWOO_DN		Multi-config
	CAM_WONWOO_FLIP		Multi-config
	CAM_WONWOO_DZ		Multi-config
	CAM_WONWOO_WDR		Multi-config
	CAM_WONWOO_WDRLevel		Multi-config
	CAM_WONWOO_BLC		Multi-config
	CAM_WONWOO_Brightness		Multi-config
	CAM_WONWOO_Iris		Multi-config
	CAM_WONWOO_Shutter		Multi-config
	CAM_WONWOO_Gain		Multi-config
	CAM_WONWOO_APT_LEVEL		Multi-config
	CAM_WONWOO_DefogMode		Multi-config
	CAM_WONWOO_DefogLevel		Multi-config
	CAM_WONWOO_Flk		Multi-config
	CAM_WONWOO_NR		Multi-config
	CAM_WONWOO_ACE		Multi-config
	CAM_WONWOO_AGC		Multi-config
	CAM_WONWOO_ExpComp		Multi-config
	CAM_WONWOO_ExpCompLevel		Multi-config
	CAM_WONWOO_DN_Threshold		Multi-config
	CAM_WONWOO_ND_Threshold		Multi-config
	CAM_WONWOO_DNDELAY		Multi-config
	CAM_WONWOO_MaxSSLevel		Multi-config
	CAM_WONWOO_FocusNearLimit		Multi-config
	CAM_WONWOO_IRDetection		Not Used.
	CAM_WONWOO_IRDetectionLevel		Not Used.
	CAM_WONWOO_ImageRangeMode		Multi-config
	CAM_WONWOO_ImageRangeCustomLevel		Multi-config
	CAM_WONWOO_AGCGain		Multi-config
	CAM_WONWOO_DISMode		Multi-config
	CAM_WONWOO_DISRange		Multi-config
	CAM_WONWOO_DISFilter		Multi-config
	CAM_WONWOO_DISAutoCenter		Multi-config
	CAM_WONWOO_HLCMode		Multi-config

	CAM_WONWOO_HLCLevel		Multi-config
	CAM_WONWOO_HLCClipColor		Multi-config
	CAM_NEXT_Lens_Mode		Multi-config
	CAM_NEXT_DC_Lens_Mode		Multi-config
	CAM_NEXT_Shutter		Multi-config
	CAM_NEXT_AGC		Multi-config
	CAM_NEXT_SensUp_Mode		Multi-config
	CAM_NEXT_SensUp_Limit		Multi-config
	CAM_NEXT_Brightness		Multi-config
	CAM_NEXT_Defog_Mode		Multi-config
	CAM_NEXT_Defog_Gradation		Multi-config
	CAM_NEXT_BackLight_Mode		Multi-config
	CAM_NEXT_WDR_Gain		Multi-config
	CAM_NEXT_WDR_Priority		Multi-config
	CAM_NEXT_BLC_Gain		Multi-config
	CAM_NEXT_HSBLC_Mode		Multi-config
	CAM_NEXT_HSBLC_Level		Multi-config
	CAM_NEXT_HSBLC_Black_Mask		Multi-config
	CAM_NEXT_WB_Mode		Multi-config
	CAM_NEXT_WB_RGain CAM_NEXT_WB_BGain		Multi-config
	CAM_NEXT_DN_Mode		Multi-config
	CAM_NEXT_DN_Delay		Multi-config
	CAM_NEXT_AGC_DN CAM_NEXT_AGC_ND		Multi-config
	CAM_NEXT_CDS_DN CAM_NEXT_CDS_ND		Multi-config
	CAM_NEXT_2DNR_Mode CAM_NEXT_3DNR_Mode		Multi-config
	CAM_NEXT_3DNR_Level		Multi-config
	CAM_NEXT_SmartNR_Mode		Multi-config
	CAM_NEXT_SmartNR_Sensitivity		Multi-config
	CAM_NEXT_Mirror_Mode		Multi-config
	CAM_NEXT_Dis_Mode		Multi-config
	CAM_NEXT_StaticDPC_Mode		Multi-config

	CAM_NEXT_LiveDPS_Mode		Multi-config
	CAM_NEXT_Sharpness		Multi-config
	CAM_NEXT_LSC_Mode		Multi-config
	CAM_NEXT_DC_Iris_Max		Multi-config
	CAM_NEXT_PIrisMode		Multi-config
	CAM_NEXT_PIrisPosition		Multi-config
	CAM_NEXT_PIrisLimit		Multi-config
	CAM_NEXT_AFAccumMode		Multi-config
	CAM_NEXT_AFMode		Multi-config
	CAM_NEXT_SmartIREnable		Multi-config
	CAM_NEXT_SmartIRLevel		Multi-config
	CAM_NEXT_SmartIRPWMLevel		Multi-config
	CAM_NEXT_Gamma		Multi-config
	CAM_NEXT_GainMG CAM_NEXT_GainR CAM_NEXT_GainYE CAM_NEXT_GainG CAM_NEXT_GainCY CAM_NEXT_GainB CAM_NEXT_GainY		Multi-config
	CAM_SONYIS_Lens_Mode		Multi-config
	CAM_SONYIS_DC_Lens_Mode		Multi-config
	CAM_SONYIS_OpenVoltage CAM_SONYIS_CloseVoltage		Multi-config
	CAM_SONYIS_Shutter		Multi-config
	CAM_SONYIS_AGC_Limit		Multi-config
	CAM_SONYIS_SensUp_Mode		Multi-config
	CAM_SONYIS_SensUp_Limit		Multi-config
	CAM_SONYIS_Flickerless		Multi-config
	CAM_SONYIS_AE_Hold		Multi-config
	CAM_SONYIS_WDR		Multi-config
	CAM_SONYIS_WB_Mode		Multi-config
	CAM_SONYIS_ATW_Mode		Multi-config
	CAM_SONYIS_AWB_ROffset CAM_SONYIS_AWB_BOffset		Multi-config

	CAM_SONYIS_ColorTemperature		Multi-config
	CAM_SONYIS_DN_Mode		Multi-config
	CAM_SONYIS_DN_AGC_DN CAM_SONYIS_DN_AGC_ND		Multi-config
	CAM_SONYIS_DN_CDS_DN CAM_SONYIS_DN_CDS_ND		Multi-config
	CAM_SONYIS_DN_Delay		Multi-config
	CAM_SONYIS_Mirror_Mode		Multi-config
	CAM_SONYIS_Negative_Mode		Multi-config
	CAM_SONYIS_Gamma		Multi-config
	CAM_SONYIS_Sharpness		Multi-config
	CAM_SONYIS_CbGain CAM_SONYIS_CrGain		Multi-config
	CAM_PS_DN_Mode		Multi-config
	CAM_PS_DN_Adjust_DN CAM_PS_DN_Adjust_ND		Multi-config
	CAM_PS_DN_Time		Multi-config
	CAM_PS_BLC		Multi-config
	CAM_PS_FLIP		Multi-config
	CAM_PS_IS_Mode		Multi-config
	CAM_PS_IS_Level		Multi-config
	CAM_PS_DNR_Mode		Multi-config
	CAM_PS_DNR_Level		Multi-config
	CAM_PS_DFG		Multi-config
	CAM_PS_WB_Mode		Multi-config
	CAM_PS_ATW_Smart		Multi-config
	CAM_PS_WB_RED CAM_PS_WB_BLUE		Multi-config
	CAM_PS_IRIS_Mode		Multi-config
	CAM_PS_IRIS_Manual		Multi-config
	CAM_PS_SHUTTER_Mode		Multi-config
	CAM_PS_SENSUP		Multi-config
	CAM_PS_GAIN_Color_Max CAM_PS_GAIN_BW_Max CAM_PS_GAIN_Auto_Max		Multi-config

	CAM_PS_GAIN_Color CAM_PS_GAIN_BW		Multi-config
	CAM_PS_DZ_Limit		Multi-config
	CAM_PS_SD		Multi-config
	CAM_PS_Vivid		Multi-config
	CAM_PS_AFSensitivity		Multi-config
	CAM_PS_Gamma		Multi-config
	CAM_PS_ApertureMode		Multi-config
	CAM_PS_ApertureVDirect CAM_PS_ApertureHDirect		Multi-config
	CAM_PS_HighlightCompensation		Multi-config
	CAM_PS_FocusArea		Multi-config
	CAM_PS_ATWRed CAM_PS_ATWBlue		Multi-config
	CAM_PS_AFNearLimit		Multi-config
	CAM_PS_Pedestal		Multi-config
	CAM_PS_AFLuminousResponse		Multi-config
	CAM_PS_SNPriorityMode		Multi-config
	CAM_PS_ChromaSuppression		Multi-config
	CAM_AMBA_FLIP_HORIZON CAM_AMBA_FLIP_VERTICAL		Multi-config
	CAM_AMBA_AWB_MODE		Multi-config
	CAM_AMBA_AWB_RGAIN CAM_AMBA_AWB_GGAIN CAM_AMBA_AWB_BGAIN		Multi-config
	CAM_AMBA_SHARP_LEVEL		Multi-config
	CAM_AMBA_WDR_MODE		Multi-config
	CAM_AMBA_WDR_LEVEL		Multi-config
	CAM_AMBA_TDN_MODE		Multi-config
	CAM_AMBA_TDN_IR_CONTROL		Multi-config
	CAM_AMBA_TDN_DAY_TH CAM_AMBA_TDN_NIGHT_TH		Multi-config
	CAM_AMBA_DSS_VALUE_NIGHT		Multi-config
	CAM_AMBA_DSS_MODE		Multi-config
	CAM_AMBA_AE_TARGET		Multi-config

	CAM_AMBA_CDS_DAY_TH CAM_AMBA_CDS_NIGHT_TH		Multi-config
	CAM_AMBA_CURRENT_Y		Read Only
	CAM_AMBA_BRIGHTNESS CAM_AMBA_CONTRAST CAM_AMBA_SATURATION		Multi-config
	CAM_AMBA_NF_LEVEL		Multi-config
	CAM_AMBA_NF_3D_MODE		Multi-config
	CAM_AMBA_NF_3D_LEVEL		Multi-config
	CAM_AMBA_SP_AUTOCONTRAST		Multi-config
	CAM_POWERUPACTION		
	CAM_SCHSUN ~ CAM_SCHSAT		
	CAM_NTSC_PAL		
	CAM_AFAFTERZOOM		
	CAM_OneShotAFafterPTZ		
	CAM_AFSensitivity		
	CAM_AFArea		
	CAM_AFAutoInitMode		
	CAM_AFAutoInitHour		
	CAM_DISPLAYZOOMMAG		
	CAM_SET_IRLED_MODE		
	CAM_SET_NEARLED CAM_SET_FARLED		
	CAM_SET_SPECIALMODEOFCONFIG4		
	CAM_EXTPTZDISABLE		
	CAM_CODEC_SATURATION		Multi-config
	CAM_CODEC_CONTRAST		Multi-config
	CAM_CODEC_BRIGHTNESS		Multi-config
	CAM_CODEC_NF_MODE		Multi-config
	CAM_CODEC_NFPARAM1		Multi-config
	CAM_CODEC_NFPARAM2		Multi-config
	CAM_CODEC_NFPARAM3		Multi-config
	CAM_CODEC_NFPARAM4		Multi-config
	CAM_CODEC_EDGE_MODE		Multi-config
	CAM_CODEC_EDGEPARAM1		Multi-config

	CAM_CODEC_EDGEPARAM2		Multi-config
	CAM_HI_FLIP_HORIZON		Multi-config
	CAM_HI_FLIP_VERTICAL		Multi-config
	CAM_HI_TDN_MODE		Multi-config
	CAM_HI_TDN_IR_CONTROL		Multi-config
	CAM_HI_TDN_DAY_TH		Multi-config
	CAM_HI_TDN_NIGHT_TH		Multi-config
	CAM_HI_IRIS_MODE		Multi-config
	CAM_HI_IRIS_VALUE		Multi-config
	CAM_HI_DSS_MODE_NIGHT		Multi-config
	CAM_HI_AE_MODE		Multi-config
	CAM_HI_AE_TARGET		Multi-config
	CAM_HI_GAMMA_INDEX		Multi-config
	CAM_HI_CDS_DAY_TH		Multi-config
	CAM_HI_CDS_NIGHT_TH		Multi-config
	CAM_HI_DEFOG_MODE		Multi-config
	CAM_HI_CURRENT_Y		Read Only
	CAM_HI_AWB_MODE		Multi-config
	CAM_HI_TDN_FILTER		Multi-config
	CAM_HI_DSS_VALUE_DAY CAM_HI_DSS_VALUE_NIGHT		Multi-config
	CAM_HI_AE_MAX		Multi-config
	CAM_HI_AE_MIN		Multi-config
ETC	ETC_USEROSDENABLE1 ETC_USEROSDENABLE2 ETC_USEROSDENABLE3 ETC_USEROSDENABLE4		
	ETC_USEROSDSTRING1 ETC_USEROSDSTRING2 ETC_USEROSDSTRING3 ETC_USEROSDSTRING4		
	ETC_USEROSDX1 ETC_USEROSDX2 ETC_USEROSDX3 ETC_USEROSDX4		

	ETC_USEROSDY1 ETC_USEROSDY2 ETC_USEROSDY3 ETC_USEROSDY4		
	ETC_USEROSDFONTSIZE1 ETC_USEROSDFONTSIZE2 ETC_USEROSDFONTSIZE3 ETC_USEROSDFONTSIZE4		
	ETC_USEROSDCOLOR1 ETC_USEROSDCOLOR2 ETC_USEROSDCOLOR3 ETC_USEROSDCOLOR4		
	ETC_EVENTOSDDISPLAYNAME0 ETC_EVENTOSDDISPLAYNAME1 ETC_EVENTOSDDISPLAYNAME2 ETC_EVENTOSDDISPLAYNAME3		
	ETC_EVENTOSDSTRING0 ETC_EVENTOSDSTRING1 ETC_EVENTOSDSTRING2 ETC_EVENTOSDSTRING3		
	ETC_EVENTOSDX0 ETC_EVENTOSDX1 ETC_EVENTOSDX2 ETC_EVENTOSDX3 ETC_EVENTOSDY0 ETC_EVENTOSDY1 ETC_EVENTOSDY2 ETC_EVENTOSDY3		
	ETC_EVENTOSDFONTSIZE0 ETC_EVENTOSDFONTSIZE1 ETC_EVENTOSDFONTSIZE2 ETC_EVENTOSDFONTSIZE3		
	ETC_EVENTOSDCOLOR0 ETC_EVENTOSDCOLOR1 ETC_EVENTOSDCOLOR2 ETC_EVENTOSDCOLOR3		

	ETC_EVENTOSDEFFECT0 ETC_EVENTOSDEFFECT1 ETC_EVENTOSDEFFECT2 ETC_EVENTOSDEFFECT3		
	ETC_EVENTHTTPENABLE0 ETC_EVENTHTTPENABLE1 ETC_EVENTHTTPENABLE2 ETC_EVENTHTTPENABLE3		
	ETC_EVENTHTTPSTRING0 ETC_EVENTHTTPSTRING1 ETC_EVENTHTTPSTRING2 ETC_EVENTHTTPSTRING3		
	ETC_AUTOPARKINGSCHESUN ETC_AUTOPARKINGSCHEMON ETC_AUTOPARKINGSCHETUE ETC_AUTOPARKINGSCHEWED ETC_AUTOPARKINGSCHETHU ETC_AUTOPARKINGSCHEFRI ETC_AUTOPARKINGSCHESAT		
	ETC_MOTIONSCHESUN ETC_MOTIONSCHEMON ETC_MOTIONSCHETUE ETC_MOTIONSCHEWEB ETC_MOTIONSCHETHU ETC_MOTIONSCHEFRI ETC_MOTIONSCHESAT		
	ETC_AutoPursuit_Sensitivity		
	ETC_AutoPursuit_Height		
	ETC_AutoPursuit_Zoom		
	ETC_AutoPursuit_Size		
	ETC_AutoPursuit_ResetTime		
	ETC_AutoPursuit_ResetPosition		
	ETC_AutoPursuit_Display		
	ETC_AutoPursuit_Enable		
	ETC_AutoPursuit_Zoomlimit		
	ETC_MPEGTS_DestinationIP_Ch0		

	ETC_MPEGTS_DestinationIP_Ch1 ETC_MPEGTS_DestinationIP_Ch2 ETC_MPEGTS_DestinationIP_Ch3		
	ETC_MPEGTS_DestinationPORT_Ch0 ETC_MPEGTS_DestinationPORT_Ch1 ETC_MPEGTS_DestinationPORT_Ch2 ETC_MPEGTS_DestinationPORT_Ch3		
	ETC_MPEGTS_ENABLE_Ch0 ETC_MPEGTS_ENABLE_Ch1 ETC_MPEGTS_ENABLE_Ch2 ETC_MPEGTS_ENABLE_Ch3		
	ETC_SWLISTENABLE0 ~ ETC_SWLISTENABLE3		
	ETC_SWLIST00 ~ ETC_SWLIST99		
	ETC_SWNAME00 ~ ETC_SWNAME99		
	ETC_SWREMOTETYPE00 ~ ETC_SWREMOTETYPE99		
	ETC_SWTIMER00 ~ ETC_SWTIMER99		
	ETC_SWENABLE00 ~ ETC_SWENABLE99		
	ETC_SWPROTOCOL00 ~ ETC_SWPROTOCOL99		
	ETC_SWPORT00 ~ ETC_SWPORT99		
	ETC_SWCHAN00 ~ ETC_SWCHAN99		
	ETC_SWUSESS00 ~ ETC_SWUSESS99		
	ETC_SWSSIP00 ~ ETC_SWSSIP99		
	ETC_SWSSPORT00 ~ ETC_SWSSPORT99		
	ETC_SWUSER00 ~ ETC_SWUSER99		
	ETC_SWPASS00 ~		

	ETC_SWPASS99		
	ETC_SWRESOL00 ~ ETC_SWRESOL99		
VA	VA_General_sensitive		IVS License
	VA_General_indoor		IVS License
	VA_General_color_check_enable		IVS License
	VA_General_tracker_type		IVS License
	VA_General_object_enable		IVS License
	VA_General_min_object_width		IVS License
	VA_General_min_object_height		IVS License
	VA_General_max_object_width		IVS License
	VA_General_max_object_height		IVS License
	VA_General_people_enable		IVS License
	VA_General_min_people_width		IVS License
	VA_General_min_people_height		IVS License
	VA_General_max_people_width		IVS License
	VA_General_max_people_height		IVS License
	VA_General_vehicle_enable		IVS License
	VA_General_min_vehicle_width		IVS License
	VA_General_min_vehicle_height		IVS License
	VA_General_max_vehicle_width		IVS License
	VA_General_max_vehicle_height		IVS License
	VA_General_other_enable		IVS License
	VA_ObjectDraw_enable_draw		Not used
	VA_ObjectDraw_enable_stream		Not used
	VA_IgnoreArea_enable		Not used
	VA_LineCounting_enable		IVS License
	VA_LineCounting_start_x		IVS License
	VA_LineCounting_start_y		IVS License
	VA_LineCounting_end_x		IVS License
	VA_LineCounting_end_y		IVS License
	VA_LineCounting_camera_height		IVS License
	VA_Tampering_enable		IVS License
	VA_Itrusion_enable		IVS License
	VA_Itrusion_object_size		IVS License

	VA_Itrusion_Area		IVS License
VOUT	VOUT_DECODEDELAY_0 VOUT_DECODEDELAY_1 VOUT_DECODEDELAY_2 VOUT_DECODEDELAY_3		Quad-view
	VOUT_AUDIOSYNC_0 VOUT_AUDIOSYNC_1 VOUT_AUDIOSYNC_2 VOUT_AUDIOSYNC_3		Quad-view
	VOUT_CROPENABLE_0 VOUT_CROPENABLE_1 VOUT_CROPENABLE_2 VOUT_CROPENABLE_3		Quad-view
	VOUT_DISPLAY_HDMI		Quad-view
	VOUT_ROT_DELAY_HDMI		Quad-view
	VOUT_DISPLAY_SDI		Quad-view
	VOUT_ROT_DELAY_SDI		Quad-view
	VOUT_DISPLAY_CVVS		Quad-view
	VOUT_ROT_CVVS		Quad-view
RMT	RMT_REMOTETYPE_0 RMT_REMOTETYPE_1 RMT_REMOTETYPE_2 RMT_REMOTETYPE_3		Quad-view
	RMT_PROTOCOL_0 RMT_PROTOCOL_1 RMT_PROTOCOL_2 RMT_PROTOCOL_3		Quad-view
	RMT_DOMAINNAME_0 RMT_DOMAINNAME_1 RMT_DOMAINNAME_2 RMT_DOMAINNAME_3		Quad-view
	RMT_REMOTEPORT_0 RMT_REMOTEPORT_1 RMT_REMOTEPORT_2 RMT_REMOTEPORT_3		Quad-view
	RMT_REMOTECHANNEL_0		Quad-view

	RMT_REMOTECHANNEL_1 RMT_REMOTECHANNEL_2 RMT_REMOTECHANNEL_3		
	RMT_USESS_0 RMT_USESS_1 RMT_USESS_2 RMT_USESS_3		Quad-view
	RMT_SSIP_0 RMT_SSIP_1 RMT_SSIP_2 RMT_SSIP_3		Quad-view
	RMT_SSPORT_0 RMT_SSPORT_1 RMT_SSPORT_2 RMT_SSPORT_3		Quad-view
	RMT_SSUSER_0 RMT_SSUSER_1 RMT_SSUSER_2 RMT_SSUSER_3		Quad-view
	RMT_SSPASS_0 RMT_SSPASS_1 RMT_SSPASS_2 RMT_SSPASS_3		Quad-view
	RMT_RTPRECVRES_0 RMT_RTPRECVRES_1 RMT_RTPRECVRES_2 RMT_RTPRECVRES_3		Quad-view
	RMT_ONVIF_PROF_CURR_0 RMT_ONVIF_PROF_CURR_1 RMT_ONVIF_PROF_CURR_2 RMT_ONVIF_PROF_CURR_3		Quad-view
	RMT_SWDISABLE_0 RMT_SWDISABLE_1 RMT_SWDISABLE_2 RMT_SWDISABLE_3		Quad-view
	RMT_WEBDISPLAY		Quad-view

	RMT_RECORDING		Quad-view

Note 1: All items without ‘Read-only’ or ‘Write-only’ characteristics are to be regarded as ‘Read & Write’.

Note 2: It is not allowed to set items in different groups together in one SetServerConfig() call. For example, video configuration and network configuration can’t be set together.

Note 3: In the case of multi channel video server such as TCS-400, the parameters of video group are extensible for multiple channels using most significant nibble. For example the VID_PREFERENCE of channel#1 is 0x0201, channel#2 is 0x1201, channel#3 is 0x2201 and channel#4 is 0x3201.

Note 4: These parameters can be extended for multi channel video server in the same way as for the parameters in the video group.

Note 5: Parameters in Camera page vary for different camera models. It is necessary to check if corresponding setting parameter is available in the Camera page of the model before a configuration parameter is used.

Note 6: Parameters in Camera page can be read or written only with HTTPAPI. TVS SDK doesn’t support it yet.

Note 7: When parameters in a multi-config set are configured, it is necessary to specify the config set using **configset=?**. When it is omitted, config set #1 is assumed.

2.2 System Configuration

SYS_MODE

System mode

Type unsigned char

Values

0	Encoder mode
1	Decoder mode
2	Duplex mode (if supported)

Comment

Read/write at Video Server type, read-only at IP camera type(always 0).

Side Effect

System reboot

String for HTTP API

Read/Write : SYS_MODE=0

SYS_STANDARD

Video standard

Type unsigned char

Values

0	PAL
1	NTSC

Comment

Side Effect

System reboot

SYS_SYSTEMID

System ID

Type 16bytes array

Values

Null terminated String, Max 15 characters

Comment

Side Effect

SYS_VERSION

Firmware version

Type 16bytes array

Values

Null terminated String, max 15 characters

Comment

Read-only

Side Effect

SYS_STARTTIME

System booting time

Type JY_Time_Type (8bytes)

```
typedef struct {
        BYTE    oSec;           // 0 ~ 59
        BYTE    oMin;           // 0 ~ 59
        BYTE    oHour;          // 0 ~ 23
        BYTE    oWeek;          // 0 ~ 6, 0 = sun
        BYTE    oDay;           // 1 ~ 31
        BYTE    oMon;           // 0 ~ 11, 0 = Jan
        BYTE    oYear;          // 0 ~ 99, (8 if 2008
        BYTE    oCentury;       // 0 ~ 99, (20, if 2008
} JY_Time_Type, * pJY_Time_Type;
```

Values

Comment

Read-only

Side Effect

String for HTTP API

Read : SYS_STARTTIME=2008/04/08 16:14:30

SYS_CURRENTTIME

Current time

Type JY_Time_Type (8bytes), See SYS_STARTTIME

Values

Comment

Side Effect

String for HTTP API

Write : SYS_CURRENTTIME=2008/04/08%2016:14:30

Read : SYS_CURRENTTIME=2008/04/08 16:14:30

SYS_REBOOT

Reboot the system

Type No parameter

Values

Comment

Write-only

Do not use with other configuration values in a command.

Side Effect

System reboot

SYS_ISIPCAM

Distinguish TCAM series from Video Server type.

Type unsigned char

Values

0	Video Server type
1	TCAM series(IP camera type)

Comment

Read-only

Side Effect

SYS_TIMEZONE

Time zone.

Type unsigned char

Values

see Time Zone definition in Appendix A

Comment

Side Effect

Time change

SYS_DLSENABLE

Use Day Light Saving time

Type unsigned char

Values

0	Disable
1	Enable

Comment

Operation is dependent on the time zone

Side Effect

Time change

SYS_NTPENABLE

Use of NTP server

Type unsigned char

Values

0 Disable

1 Enable

Comment

Side Effect

Time change if needed.

SYS_NTPDOMAIN

NTP server address

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Side Effect

Time change if needed.

SYS_LOGINSKIPENABLE

Set if 'Skip Login' is to be enabled

Type unsigned char

Values

0 Disable

1 Enable

Comment

Side Effect

SYS_LOGINSKIPPRIORITY

Privilege level of a user who logged on with 'Skip Login'

Type unsigned char

Values

0	Admin
1	Manager
2	User
3	Guest

Comment

Valid when Login Skip is enabled.

Side Effect

SYS_LANGUAGE

Set the language for web pages of the server

Type unsigned char

Values

0	English
1	Japanese
2	Korean
3	Hebrew
4	Russian
5	Spanish
6	Portuguese
7	Chinese
8	German
9	Arabic
10	Finnish
11	*Italian*
12	*Polish*
13	*French*
14	*Czech*
15	*traditional Chinese*
16	*Turkish*
17	*Dutch*

Comment

Side Effect

SYS_RESET

Reset all parameters to factory defaults except SYS_STANDARD

Type No parameter

Values

Comment

Write-only

Do not use with other configuration values in a command.

Side Effect

System reboot

SYS_RESET_V2

Reset all parameters to factory defaults except categories pointed by parameter

Type unsigned long

Values

1 (0x00000001)	network configuration
2 (0x00000002)	preset information
4 (0x00000004)	user information

Multiple categories can be specified using bitwise OR-ing.

Comment

Write-only

Do not use with other configuration values in a command.

Side Effect

System reboot

SYS_MODELNAME

Model name

Type 16bytes array

Values

Null terminated String, max 15 characters

Comment

Read-only

Side Effect

SYS_BOARDID

Board ID

Type unsigned char

Values

Comment

Read-only

Side Effect

SYS_NUMOFVIDEO

Number of video channels.

Type unsigned char

Values

Comment

Read-only

Side Effect

SYS_NUMOFAUDIO

Number of audio channels.

Type unsigned char

Values

Comment

Read-only

Side Effect

SYS_NUMOFSENSOR

Number of sensor input.

Type unsigned char

Values

Comment

Read-only

Side Effect

SYS_NUMOFALARM

Number of alarm output.

Type unsigned char

Values

Comment

Read-only

Side Effect

SYS_TIMEFORMAT

Time display format.

Type unsigned char

Values

0	YYYY/MM/DD hh:mm:ss
1	DD/MM/YYYY hh:mm:ss
2	MM/DD/YYYY hh:mm:ss

Comment

Side Effect

SYS_CURRENT_TEMP

Read Current temperature.

Type unsigned char

Values

Comment

Read Only

Zoom Box Model

SYS_CURRENT_TEMP=not support

SYS_CURRENT_TEMP=51

Side Effect

String for HTTP API

SYS_CURRENT_TEMP=0

SYS_INTRA_Q

Set Min QP of I frame.

Type unsigned char

Values

10 ~ 35	Small value: larger I frame

Comment

2.3 Video Configuration

VID_PREFERENCE

Preference in video encoding and transmission

Type unsigned char

Values

0	Quality mode (VBR)
1	Bitrate mode (CBR)
2	Hybrid mode

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Quality mode: VID_QUALITY is used and VID_BANDWIDTH is not used.

Bitrate mode: reverse

Side Effect

VID_RESOLUTION

Video encoding resolution

Type unsigned char

Values

0	720x480 (PAL, 720x576)
1	720x240 (PAL, 720x288)
2	352x480 (PAL, 352x576)
3	352x240 (PAL, 352x288)
4	720x576
5	720x288
6	352x576
7	352x288
8	640x480
9	800x600
10	1024x768
11	1280x960
12	1280x1024
13	1440x900
14	1600x900
15	1680x1050
16	1280x720
17	1920x1080
18	176x120
19	176x144
20	320x288 //Not supported
21	360x288 //Not supported

22 320x240 //Not supported

23 2048x1536

24 2560x1600

25 2592x1936

26 1920x1056

27 640x360

28 1440x540

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_FRAMERATE

Video encoding frame rate

Type unsigned char

Values

0 ~14 30(PAL, 25) ~ 0.2 fps, See TN_FRAMERATE.

Comment

Valid only when SYS_MODE is Encoder Duplex.

Side Effect

Reference

TN_FRAMERATE

Item	Value	Description
TN_FPS_30_25	0	NTSC: 30fps, PAL: 25fps
TN_FPS_25_20	1	NTSC: 25fps, PAL: 20fps
TN_FPS_20_16	2	NTSC: 20fps, PAL: 16fps
TN_FPS_15_12	3	NTSC: 15fps, PAL: 12fps
TN_FPS_10	4	10fps
TN_FPS_8	5	8fps
TN_FPS_6	6	6fps
TN_FPS_5	7	5fps
TN_FPS_4,	8	4fps
TN_FPS_3	9	3fps
TN_FPS_2	10	2fps
TN_FPS_1	11	1fps
TN_FPS_06	12	0.6fps
TN_FPS_04	13	0.4fps

TN_FPS_02	14	0.2fps

The following values also can be used for setting a framerate in wider range.

Framerate parameter = 100 + Framerate to be configured

For example:

1fps = 101

2fps = 102

…

30fps = 130

50fps = 150

60fps = 160

VID_QUALITY

Video encoding quality

Type unsigned char

Values

0~7 The smaller, the better quality

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Valid only when VID_PREFERENCE is set to Quality.

Side Effect

VID_BANDWIDTH

Video encoding bandwidth

Type unsigned short

Values

0 ~10240 Encoder mode. Max bandwidths vary depending on the models.

0 ~2000 Duplex mode (TCS-200 only)

Comment

Valid only when SYS_MODE is Encoder Duplex.

Valid only when VID_PREFERENCE is set to Bitrate.

Side Effect

VID_IINTERVAL

I-frame interval in video encoding

Type unsigned char

Values

0~255

Comment

Valid only when SYS_MODE is Encoder Duplex.

If 0, I frames are not generated.

Side Effect

VID_MDTHRESHOLD

Motion detection sensitivity

Type unsigned char

Values

0 ~10 The smaller, the more sensitive

Comment

Valid only when SYS_MODE is Encoder or Duplex.

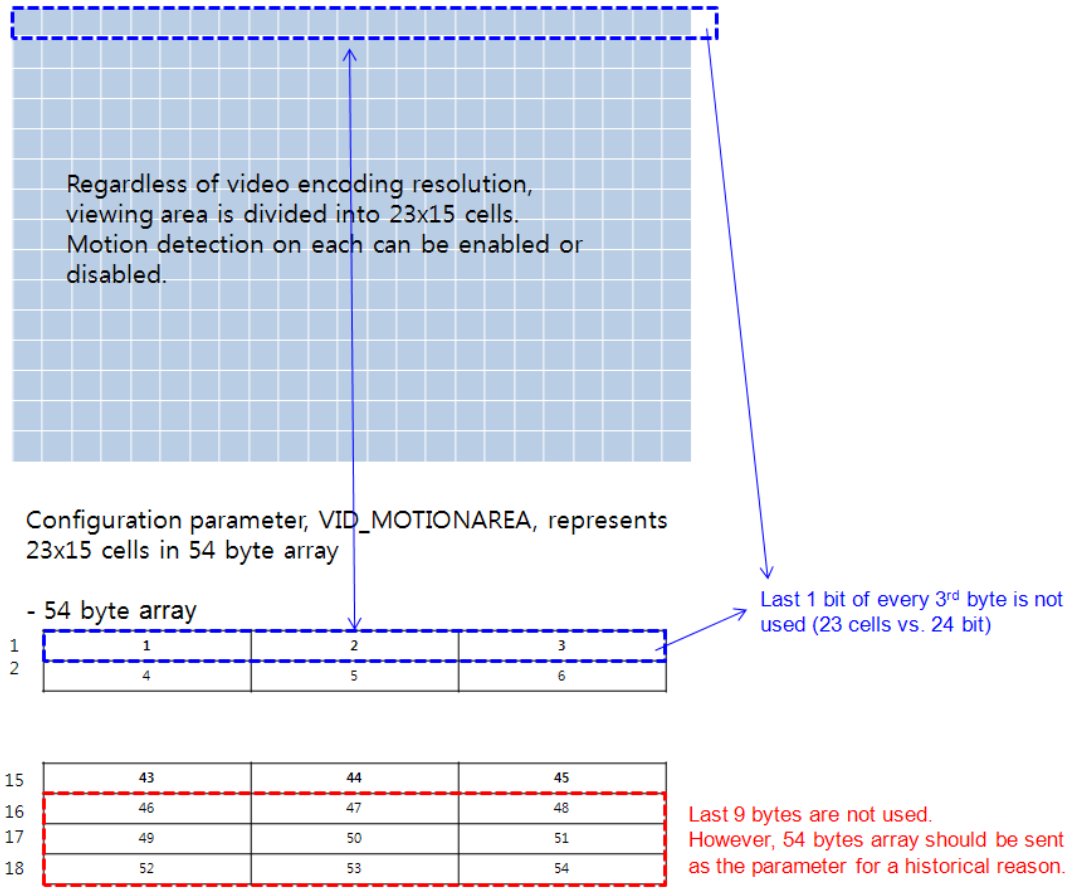
Side Effect

VID_MOTIONAREA

Motion detection area

Type Array of 54 unsigned char

Values



1	1	2	3
2	4	5	6

15	43	44	45
16	46	47	48
17	49	50	51
18	52	53	54

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_MOTIONREGION

Motion detection area

Type Array of 32 unsigned char

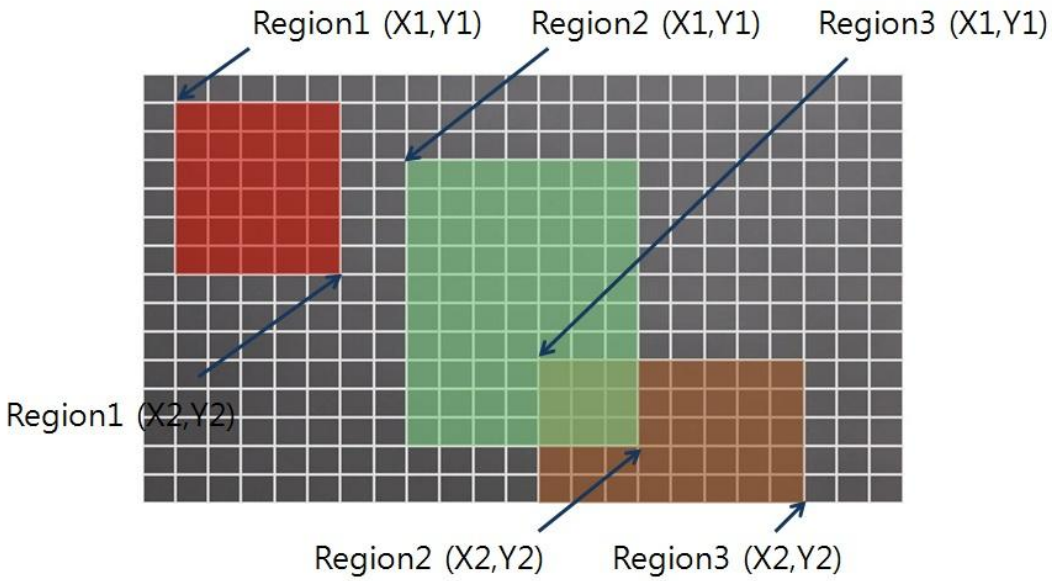
Values

32byte array

{Region1 X1, Region1 Y1, Region1 X2, Region1 Y2, Region2 X1, Region2 Y1, Region2 X2, Region2 Y2, …… Region8 X1, Region8 Y1, Region8 X2, Region8 Y2}

All X1 and X2 can be 0 ~ 23 (X2 > X1), all, Y1 and Y2 can be 0 ~ 15 (Y2 > Y1).

If all X1, Y1, X2 and Y2 are 0, that region will not be used.



Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_BRIGHTNESS
VID_CONTRAST
VID_HUE
VID_SATURATION

Video input color property

Type unsigned char

Values

0 ~100

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_BURNINID

Display system ID in Burn-in OSD

Type unsigned char

Values

0	Disable
1	Enable

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_BURNINTIME

Display current time in Burn-in OSD

Type unsigned char

Values

0	Disable
1	Enable

Comment

Valid only when SYS_MODE is Encoder Duplex.

When video resolution is 352x240 or 352x480 and both ID and TIME are enabled, only ID is displayed due to lack of space for display.

Side Effect

VID_BURNINPOSITION

Position of Burn-in OSD

Type unsigned char

Values

0	Bottom
1	Top

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_MOTIONENABLE

Enable or disable motion detection

Type unsigned char

Values

0	Disable
1	Enable

Comment

Side Effect

VID_INFODISPID

Display system ID in OSD of web viewer

Type unsigned char

Values

0	Disable
1	Enable

Comment

Side Effect

VID_INFODISPTIME

Display current time in OSD of web viewer

Type unsigned char

Values

0	Disable
1	Enable

Comment

Side Effect

VID_INFODISPPOSITION

Position of web viewer OSD

Type unsigned char

Values

0	Bottom
1	Top

Comment

Side Effect

VID_USEDUAL

Use dual encoding

Type unsigned char

Values

0	off
1	on

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_DUALALGORITHM

Encoding algorithm of secondary channel

Type unsigned char

Values

0	H.264
1	MJPEG

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_DUALPREFERENCE

Preference in video encoding and transmission of secondary channel

Type unsigned char

Values

0	Quality mode (VBR)
1	Bitrate mode (CBR)
2	Hybrid mode

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Quality mode: VID_DUALQUALITY is used and VID_BUALBANDWIDTH is not used.

Bitrate mode: reverse

Side Effect

VID_DUALRESOLUTION

Video encoding resolution of secondary channel

Type unsigned char

Values

0	720x480 (PAL, 720x576)
1	720x240 (PAL, 720x288)
2	352x480 (PAL, 352x576)
3	352x240 (PAL, 352x288)
4	720x576
5	720x288
6	352x576

7	352x288
8	640x480
9	800x600
10	1024x768
11	1280x960
12	1280x1024
13	1440x900
14	1600x900
15	1680x1050
16	1280x720
17	1920x1080

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_DUALFRAMERATE

Video encoding frame rate of secondary channel

Type unsigned char

Values

0 ~14 30(PAL, 25) ~ 0.2 fps, See TN_FRAMERATE.

Comment

Valid only when SYS_MODE is Encoder Duplex.

Side Effect

Reference

TN_FRAMERATE

Item	Value	Description
TN_FPS_30_25	0	NTSC: 30fps, PAL: 25fps
TN_FPS_25_20	1	NTSC: 25fps, PAL: 20fps
TN_FPS_20_16	2	NTSC: 20fps, PAL: 16fps
TN_FPS_15_12	3	NTSC: 15fps, PAL: 12fps
TN_FPS_10	4	10fps
TN_FPS_8	5	8fps
TN_FPS_6	6	6fps
TN_FPS_5	7	5fps
TN_FPS_4,	8	4fps
TN_FPS_3	9	3fps

TN_FPS_2	10	2fps
TN_FPS_1	11	1fps
TN_FPS_06	12	0.6fps
TN_FPS_04	13	0.4fps
TN_FPS_02	14	0.2fps

VID_DUALQUALITY

Video encoding quality of secondary channel

Type unsigned char

Values

0~7 The smaller, the better quality

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Valid only when VID_DUALPREFERENCE is set to Quality.

Side Effect

VID_DUALBANDWIDTH

Video encoding bandwidth of secondary channel

Type unsigned short

Values

0 ~4000 Encoder mode

0 ~2000 Duplex mode

Comment

Valid only when SYS_MODE is Encoder Duplex.

Valid only when VID_DUALPREFERENCE is set to Bitrate.

Side Effect

VID_DUALIINTERVAL

I-frame interval in video encoding of secondary channel

Type unsigned char

Values

0~255

Comment

Valid only when SYS_MODE is Encoder Duplex.

If 0, I frames are not generated.

Side Effect

VID_USETRIPLE1
VID_USETRIPLE2

Use triple and quarduple encoding

Type unsigned char

Values

0	off
1	on

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_TRIPLEALGORITHM1
VID_TRIPLEALGORITHM2

Encoding algorithm of secondary channel #2 and #3

Type unsigned char

Values

0	H.264
1	MJPEG

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_TRIPLEPREFERENCE1
VID_TRIPLEPREFERENCE2

Preference in video encoding and transmission of secondary channel #2 and #3

Type unsigned char

Values

0	Quality mode (VBR)
1	Bitrate mode (CBR)
2	Hybrid mode

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Quality mode: VID_DUALQUALITY is used and VID_BUALBANDWIDTH is not used.

Bitrate mode: reverse

Side Effect

VID_TRIPLERESOLUTION1
VID_TRIPLERESOLUTION2

Video encoding resolution of secondary channel #2 and #3

Type unsigned char

Values

0	720x480 (PAL, 720x576)
1	720x240 (PAL, 720x288)
2	352x480 (PAL, 352x576)
3	352x240 (PAL, 352x288)
4	720x576
5	720x288
6	352x576
7	352x288
8	640x480
9	800x600
10	1024x768
11	1280x960
12	1280x1024
13	1440x900
14	1600x900
15	1680x1050
16	1280x720
17	1920x1080

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_TRIPLEFRAMERATE1
VID_TRIPLEFRAMERATE2

Video encoding frame rate of secondary channel #2 and #3

Type unsigned char

Values

0 ~14	30(PAL, 25) ~ 0.2 fps, See TN_FRAMERATE.

Comment

Valid only when SYS_MODE is Encoder Duplex.

Side Effect

Reference

TN_FRAMERATE

Item	Value	Description
TN_FPS_30_25	0	NTSC: 30fps, PAL: 25fps
TN_FPS_25_20	1	NTSC: 25fps, PAL: 20fps
TN_FPS_20_16	2	NTSC: 20fps, PAL: 16fps
TN_FPS_15_12	3	NTSC: 15fps, PAL: 12fps
TN_FPS_10	4	10fps
TN_FPS_8	5	8fps
TN_FPS_6	6	6fps
TN_FPS_5	7	5fps
TN_FPS_4,	8	4fps
TN_FPS_3	9	3fps
TN_FPS_2	10	2fps
TN_FPS_1	11	1fps
TN_FPS_06	12	0.6fps
TN_FPS_04	13	0.4fps
TN_FPS_02	14	0.2fps

VID_TRIPLEQUALITY1
VID_TRIPLEQUALITY2

Video encoding quality of secondary channel #2 and #3

Type unsigned char

Values

0~7 The smaller, the better quality

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Valid only when VID_DUALPREFERENCE is set to Quality.

Side Effect

VID_TRIPLEBANDWIDTH1
VID_TRIPLEBANDWIDTH2

Video encoding bandwidth of secondary channel #2 and #3

Type unsigned short

Values

0 ~4000	Encoder mode
0 ~2000	Duplex mode

Comment

Valid only when SYS_MODE is Encoder Duplex.

Valid only when VID_DUALPREFERENCE is set to Bitrate.

Side Effect

VID_TRIPLEIINTERVAL1
VID_TRIPLEIINTERVAL2

I-frame interval in video encoding of secondary channel #2 and #3

Type unsigned char

Values

0~255

Comment

Valid only when SYS_MODE is Encoder Duplex.

If 0, I frames are not generated.

Side Effect

VID_INPUTFORMAT

Video input format

Type unsigned short

Values

0x0000	None
0x0100	Composite PAL
0x0101	Composite NTSC
0x0200	HD-SDI 720p30
0x0201	HD-SDI 960p22.5
0x0202	HD-SDI 1080i60
0x0203	HD-SDI 1080i50
0x0204	HD-SDI 720p60
0x0205	HD-SDI 720p50
0x0206	HD-SDI 1080p30
0x0207	SD-SDI NTSC
0x0208	SD-SDI PAL
0x0209	HD-SDI 1080i59.94

0x0211	HD-SDI 1080p25
0x0260	HD-SDI 1080p60
0x0261	HD-SDI 1080p50
0x0263	HD-SDI 1080p59.94
0x0264	HD-SDI 1080p29.97
0x0265	HD-SDI 1080PsF23.98
0x0266	HD-SDI 1080PsF24
0x0300	HDMI 480p30
0x0301	HDMI 480p60
0x0302	HDMI 480i60
0x0303	HDMI 576p50
0x0304	HDMI 576i50
0x0305	HDMI 720p25
0x0306	HDMI 720p30
0x0307	HDMI 720p60
0x0308	HDMI 1080p25
0x0309	HDMI 1080p30
0x030A	HDMI 1080p60
0x030B	HDMI 1080i60
0x030C	HDMI 1080i50
0x030D	HDMI 1080p50
0x030E	HDMI 720p50
0x030F	HDMI 1280x1024p30
0x0310	HDMI 1280x960p30
0x0311	HDMI 1024x768p30
0x0312	HDMI 1280x1024p60
0x0313	HDMI 1280x960p60
0x0314	HDMI 1024x768p60
0x0315	HDMI 1080i59.94
0x0316	HDMI 1440x900p60
0x0317	HDMI 800x600p60
0x0318	HDMI 1080p23.98
0x0319	HDMI 1920x1200p60
0x031A	HDMI 1920x1200p50
0x031B	HDMI 3840x2160p25
0x031C	HDMI 3840x2160p30

0x031D	HDMI 4096x2160p25
0x031E	HDMI 4096x2160p30

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_OUTPUTFORMAT

Video output format

Type unsigned char

Values

0	480i60 (Composite and HDMI)
1	576i50 (Composite and HDMI)
2	720p60 (HD-SDI and HDMI)
3	1080i60 (HD-SDI and HDMI)
4	720p50 (HD-SDI and HDMI)
5	1080i50 (HD-SDI and HDMI)
6	1080p30 (HD-SDI and HDMI)
7	1080p60 (HD-SDI and HDMI)
8	1080p50 (HD-SDI and HDMI)
9	1080p25 (HD-SDI and HDMI)
10	1080i59.94 (HD-SDI and HDMI)
11	1080p24 (HD-SDI and HDMI)
12	1080PsF23.98 (HD-SDI and HDMI)
13	1080PsF24 (HD-SDI and HDMI)
14	1080p59.94 (HD-SDI and HDMI)

Comment

Side Effect

VID_BURNINSIZE

Font size of Burn-in OSD

Type unsigned char

Values

0	Small (8x8)
1	Middle (16x16)
2	Large (32x32)

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

VID_PREVIEWENABLE

HDMI or Composite out enable.

Type unsigned char

Values

0	Disable
1	Enable

Comment

If enabled, dual encoding will be ignored.

Side Effect

VID_FRAMEENCODE

Set to force frame encode at interlaced video

Type unsigned char

Values

0	Field encode mode
1	Frame encode mode

Comment

Side Effect

VID_CURENCBITRATE
VID_CURDECBITRATE
VID_DUALCURENCBITRATE
VID_DUALCURDECBITRATE
VID_TRIPLECURENCBITRATE1
VID_TRIPLECURDECBITRATE1
VID_TRIPLECURENCBITRATE2
VID_TRIPLECURDECBITRATE2

Read current encode/decode bitrate

Type unsigned long

Values

0 ~	kbps

Comment

Read only

Side Effect

VID_CURENCFPS
VID_CURDECFPS
VID_DUALCURENCFPS
VID_DUALCURDECFPS
VID_TRIPLECURENCFPS1
VID_TRIPLECURDECFPS1
VID_TRIPLECURENCFPS2
VID_TRIPLECURDECFPS2

Read current encode/decode frame rate

Type unsigned long

Values

0 ~ frames

Comment

Read only

Side Effect

VID_SCALEENABLE

Select scaling or cropping for adjusting the input video to encoding resolution of primary stream

Type unsigned char

Values

0 Disabled (Crop mode)

1 Enabled (Scale mode)

Comment

Side Effect

VID_DUALSCALEENABLE

Select scaling or cropping for adjusting the input video to encoding resolution of secondary stream

Type unsigned char

Values

0 Disabled (Crop and scale down with keeping aspect ratio)

1 Enabled (Scale down without keeping aspect ratio)

Comment

Side Effect

VID_TRIPLESCALEENABLE1
VID_TRIPLESCALEENABLE2

Select scaling or cropping for adjusting the input video to encoding resolution of secondary stream #2 and #3

Type unsigned char

Values

0	Disabled (Crop and scale down with keeping aspect ratio)
1	Enabled (Scale down without keeping aspect ratio)

Comment

TCS-3000 and TN series only.

Side Effect

VID_CAPRESOLUTION
VID_CAPDUALRESOLUTION
VID_CAPTRIPLERESOLUTION1
VID_CAPTRIPLERESOLUTION2

Resolution capability - set of resolutions supported

Type unsigned long

Values

1 (0x00000001)	720x480
2 (0x00000002)	720x240
4 (0x00000004)	352x480
8 (0x00000008)	352x240
16 (0x00000010)	720x576
32 (0x00000020)	720x288
64 (0x00000040)	352x576
128 (0x00000080)	352x288
256 (0x00000100)	640x480
512 (0x00000200)	800x600
1024 (0x00000400)	1024x768
2048 (0x00000800)	1280x960
4096 (0x00001000)	1280x1024
8192 (0x00002000)	1440x900
16384 (0x00004000)	1600x900

32768 (0x00008000)	1680x1050
65536 (0x00010000)	1280x720
131072 (0x00020000)	1920x1080
262144(0x00040000)	176x120
524288(0x00080000)	176x144
1048576(0x00100000)	320x288
2097152(0x00200000)	360x288
4194304(0x00400000)	320x240
8388608(0x00800000)	2048x1536
16777216(0x01000000)	2560x1600
33554432(0x02000000)	2592x1936
67108864(0x04000000)	1920x1056
134217728(0x08000000)	640x360
268435456(0x10000000)	1440x540

Multiple resolutions can be specified using bitwise OR-ing.

Comment

Read only

Side Effect

VID_CAPBANDWIDTHMAX
VID_CAPBANDWIDTHMIN
VID_CAPDUALBANDWIDTHMAX
VID_CAPDUALBANDWIDTHMIN
VID_CAPTRIPLEBANDWIDTHMAX1
VID_CAPTRIPLEBANDWIDTHMIN1
VID_CAPTRIPLEBANDWIDTHMAX2
VID_CAPTRIPLEBANDWIDTHMIN2

Maximum or minimum bandwidth(video encoding bitrate) allowable, primary stream and secondary stream respectively

Type unsigned long

Values

0 ~ kbps

Comment

Read only

Side Effect

VID_CAPFRAMERATEMAX
VID_CAPFRAMERATEMIN
VID_CAPDUALFRAMERATEMAX
VID_CAPDUALFRAMERATEMIN
VID_CAPTRIPLEFRAMERATEMAX1
VID_CAPTRIPLEFRAMERATEMIN1
VID_CAPTRIPLEFRAMERATEMAX2
VID_CAPTRIPLEFRAMERATEMIN2

Maximum or minimum framerate(video encoding) allowable, primary stream and secondary stream respectively.

Type unsigned long

Values

0 ~14 30 ~ 0.2 fps, See TN_FRAMERATE.

Comment

Read only

Side Effect

VID_INPUTCOLORFORMAT

Select input color format of HDMI input

Type unsigned char

Values

0 RGB

1 YPbPr

Comment

TCS-2000 series only.

Side Effect

VID_INPUTDEINTERLACE

Enable input deinterlace if interlaced video

Type unsigned char

Values

0 off

1 on

Comment

Side Effect

VID_H.264PROFILE

VID_DUALH.264PROFILE

VID_TRIPLEH.264PROFILE1

VID_TRIPLEH.264PROFILE2

H.264 profile, primary stream and secondary stream respectively.

Type unsigned char

Values

0	High profile
1	Baseline profile

Comment

Side Effect

VID_MDDISABLEONPTZ

Disable motion detection when PTZ.

Type unsigned char

Values

0	off
1	on (disable)

Comment

Side Effect

VID_DUALROIDISABLE

VID_TRIPLEROIDISABLE1

VID_TRIPLEROIDISABLE2

Disable ROI.

Type unsigned char

Values

0	off (use ROI)
1	on (disable ROI)

Comment

Side Effect

VID_ROIPos1X
VID_ROIPos1Y
VID_ROIPos1W
VID_ROIPos1H
VID_ROIPos2X
VID_ROIPos2Y
VID_ROIPos2W
VID_ROIPos2H
VID_ROIPos3X
VID_ROIPos3Y
VID_ROIPos3W
VID_ROIPos3H

Set ROI X, Y, WIDTH, HEIGHT.

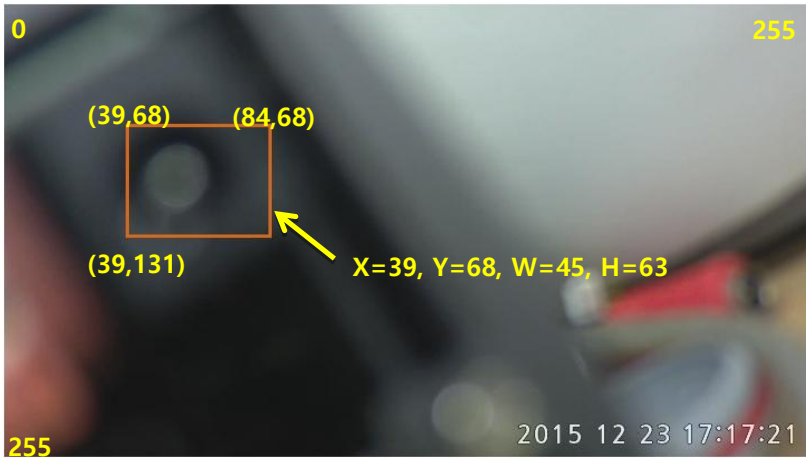
Type unsigned char

Values

0 ~ 255 (X, Y, WIDTH, HEIGHT)

ROIPosX + ROIPosW <= 255, ROIPosY + ROIPosH <= 255

Comment



Side Effect

VID_CROPENABLE

Enable Crop.

Type unsigned char

Values

0 Stretch

1	Crop

Comment

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

2.4 Audio Configuration

AUD_AUDIOMODE

Audio communication mode

Type unsigned char

Values

0	Off
1	Tx-Only
2	Rx-Only
3	Tx & Rx

Comment

Side Effect

All Link disconnect

AUD_ALGORITHM

Audio encoding/decoding algorithm

Type unsigned char

Values

0	G.711 mu-law
1	AAC

Comment

Side Effect

All Link disconnect

AUD_BITRATE

Audio bitrate

Type unsigned char

Values

0	64Kbps

1 128Kbps

Comment

Valid only when AUD_ALGORITHM is AAC.

Side Effect

All Link disconnect

AUD_GAIN

Audio input gain

Type unsigned char

Values

0~31

Comment

Side Effect

AUD_RECVPORT

Audio receive port for general purpose

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

AUD_CURENCBITRATE

AUD_CURDECBITRATE

Read current encode/decode bitrate

Type unsigned long

Values

0 ~ kbps

Comment

Read only

Side Effect

2.5 Network Configuration

NET_LOCALIPMODE

Local IP mode

Type unsigned char

Values

0	fixed IP
1	DHCP

Comment

Side Effect

System reboot

NET_REMOTECONNECT

To set if a Duplex system initiate connection to the peer

Type unsigned char

Values

0	Off
1	On

Comment

Valid only when SYS_MODE is Duplex.

Side Effect

All Link disconnect

NET_REMOTECHANNEL

Channel number of remote system to connect (when remote system has multiple channels)

Type unsigned char

Values

0~3	Channel number

Comment

Valid when SYS_MODE is Decoder or Duplex with REMOTECONNECT set(On).

Side Effect

All Link disconnect

NET_LOCALIP
NET_LOCALGATEWAY
NET_LOCALSUBNET

IP address

Type unsigned long

Values

IP address Big-endian

Comment

Side Effect

System reboot if NET_LOCALIPMODE is 0.

String for HTTP API

Read/Write : NET_LOCALIP=192.168.10.100

NET_DOMAINNAME

Address(IP or domain name) of the peer to connect

Type 64bytes array

Values

Null terminated String for IP address or domain name, Max 63 characters

Comment

Valid when SYS_MODE is Decoder or Duplex with REMOTECONNECT set(On).

Valid when NET_REMOTEIPMODE is Domain.

Side Effect

All Link disconnect

String for HTTP API

Read/Write : NET_DOMAINNAME=192.168.10.200

NET_DOMAINNAME=remote.addr.com

NET_MULTICASTIP

Multicast IP

Type unsigned long

Values

IP address Big-endian

Comment

Side Effect

System reboot

String for HTTP API

Read/Write : NET_MULTICASTIP=224.0.10.1

NET_DNSIP
NET_DNSIP2

Primary DNS server address and secondary DNS server address

Type unsigned long

Values

IP address Big-endian

Comment

Side Effect

System reboot

String for HTTP API

Read/Write : NET_DNSIP=168.126.63.1

NET_DDNSREGISTER

DDNS server to use

Type unsigned char

Values

0 Off

1 TrueDNS

2 Dyn-DNS

Comment

Side Effect

NET_BASEPORT

Base port

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

System reboot

NET_HTTPPORT

HTTP port

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

NET_FLOWCONTROLMODE

Flow control mode

Type unsigned char

Values

0 Min mode

1 Max mode

2 Adjust mode

3 Off

Comment

Valid when SYS_MODE is Encoder or Duplex.

Side Effect

NET_CURRENTIP

Read current IP address

Type unsigned long

Values

IP address Big-endian

Comment

Read-Only.

Side Effect

String for HTTP API

Read : NET_CURRENTIP=192.168.10.100

NET_CURRENTDOMAIN

Read current domain name

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Read-Only.

Side Effect

String for HTTP API

Read : NET_CURRENTDOMAIN=myname.addr.com

NET_MAC

Read MAC address

Type 6bytes array

Values

6 unsigned char for H/W address

Comment

Read-Only.

Side Effect

String for HTTP API

Read : NET_MAC=00:1C:63:A3:00:01

NET_DYNDNSDOMAIN

DynDNS domain name

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Valid when NET_DDNSREGISTER is Dyn-DNS.

Side Effect

NET_DYNDNSID

DynDNS ID

Type 16bytes array

Values

Null terminated String, Max 15 characters

Comment

Valid when NET_DDNSREGISTER is Dyn-DNS.

Side Effect

NET_DYNDNSPASSWD

DynDNS Password

Type 16bytes array

Values

Null terminated String, Max 15 characters

Comment

Valid when NET_DDNSREGISTER is Dyn-DNS..

Side Effect

NET_PROTOCOL

Transport protocol to use for media communication

Type unsigned char

Values

0	TCP
1	UDP
2	Multicast

Comment

Valid when SYS_MODE is Decoder or Duplex with REMOTECONNECT set(On).

Side Effect

All Link disconnect

NET_DNSAUTO

Set whether DNS server address is obtained automatically or not

Type unsigned char

Values

0	Off
1	On

Comment

Valid only when NET_LOCALIPMODE is DHCP.

Side Effect

System reboot

NET_RTSPPORT

RTSP port

Type unsigned short

Values

1 ~ 65535	Port number

Comment

Side Effect

NET_USERTPSESSION

Use RTP session(The RTP only streaming without RTSP connection)

Type unsigned char

Values

0 Off

1 On

Comment

Side Effect

NET_RTPSESSIONPORT

RTP Session port

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

NET_RTPSESSIONUSER

RTP Session name

Type 32bytes array

Values

Null terminated String, Max 31 characters

Comment

Valid only when NET_LOCALIPMODE is DHCP.

Side Effect

System reboot

NET_RTPSESSIONFILE

SDP file name

Type 32bytes array

Values

Null terminated String, Max 31 characters

Comment

Side Effect

NET_RTPSESSIONIP

RTP Session IP

Type unsigned long

Values

IP address Big-endian

Comment

Side Effect

NET_SNMPTRAPIP

Destination IP address for SNMP trap

Type unsigned long

Values

IP address Big-endian

Comment

Side Effect

NET_SNMPTRAPPORT

Destination Port number for SNMP trap

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

NET_SNMPPORT

Listen Port number for SNMP agent

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

NET_USESS

Connect to remote system via streaming server

Type unsigned char

Values

0	Off
1	On

Comment

Side Effect

NET_SSIP

IP address of the streaming server

Type unsigned long

Values

IP address	Big-endian

Comment

Side Effect

NET_SSPORT

Connection Port number of the streaming server

Type unsigned short

Values

1 ~ 65535	Port number

Comment

Side Effect

NET_SSUSER

User name to connect to the streaming server

Type 16bytes array

Values

Null terminated String, Max 15 characters

Comment

Side Effect

NET_SSPASS

Password to connect to the streaming server

Type 16bytes array

Values

Null terminated String, Max 15 characters

Comment

Side Effect

NET_REMOTEPORT

Base port of the remote system to connect

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

NET_USERTSPAUTH

Enable authentication on RTSP connection

Type unsigned char

Values

0 Off

1 On

Comment

Side Effect

NET_REMOTETYPE

Connection type of remote system to connect

Type unsigned char

Values

0 Normal

1 RTSP

2 RTP

3 MPEG-TS

4 ONVIF

5 RTMP

Comment

Valid when SYS_MODE is Decoder

Side Effect

NET_USEHTTPAPIAUTH

Enable authentication on HTTPAPI connection

Type unsigned char

Values

0 Off

1 On

Comment

Side Effect

NET_UPNPENABLE

Enable responding UPNP based discovery

Type unsigned char

Values

0 Off

1 On

Comment

Side Effect

NET_ZEROCONFENABLE

Enable responding zeroconf based discovery

Type unsigned char

Values

0 Off

1 On

Comment

Side Effect

NET_IPV6ADDRESS

IPv6 Address

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Side Effect

NET_IPV6SUBNETPREFIXLENGTH

IPv6 subnet prefix length

Type signed integer

Values

0 ~ 128

Comment

Side Effect

NET_IPV6DEFAULTGATEWAY

IPv6 default gateway address

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Side Effect

NET_WSDISCOVERYENABLE

Enable responding WS Discovery based discovery

Type unsigned char

Values

0 Off

1 On

Comment

Side Effect

NET_HTTPSPORT

HTTPS port

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

NET_IPV6LINKLOCALADDRESS

IPv6 link local address

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Read only

Side Effect

NET_TTL

TTL for the IP

Type unsigned char

Values

0 ~ 255

Comment

Side Effect

NET_RTPSESSIONVIDEO

Video stream selection for RTP session

Type unsigned char

Values

0	Primary video
1	Secondary video #1
2	Secondary video #2
3	Secondary video #3
4	JPEG capture

Comment

Side Effect

NET_QOSENABLE

Enable QOS.

Type unsigned char

Values

0	Off
1	On

Comment

Side Effect

NET_DSCP

Set DSCP for QOS.

Type unsigned char

Values

0 ~ 63

Comment

Side Effect

NET_SSLENABLE

Enable SSL.

Type unsigned char

Values

0 Off

1 On

Comment

Side Effect

NET_SSLCRYPTO

Enable SSL Crypto.

Type unsigned char

Values

0 Off

1 On

Comment

Side Effect

NET_SSLUSER

Set SSL User ID.

Type 16bytes array

Values

Null terminated String, Max 15 characters

Comment

Side Effect

NET_SSLPASS

Set SSL Password.

Type 16bytes array

Values

Null terminated String, Max 15 characters

Comment

Side Effect

NET_SSLAddress

Set SSL Password.

Type 32bytes array

Values

Null terminated String, Max 31 characters

Comment

Side Effect

NET_SSLPort

Set SSL Port.

Type unsigned short

Values

1 ~ 65535	Port number

Comment

Side Effect

2.6 Serial Configuration

SER_PROTOCOL_1
SER_PROTOCOL_2
SER_PROTOCOL_3
SER_PROTOCOL_4

Set type of serial port

Type unsigned char

Values

0	RS-232C
1	RS-422
2	RS-485

Comment

TCS-200	SER_PROTOCOL_1 : fixed to RS-232C
	SER_PROTOCOL_2 : RS-422 or RS-485
	SER_PROTOCOL_3 : N/A
	SER_PROTOCOL_4 : N/A
TCAM series	SER_PROTOCOL_1 : N/A
	SER_PROTOCOL_2 : fixed to RS-485

SER_PROTOCOL_3 : N/A

SER_PROTOCOL_4 : N/A

Side Effect

SER_BITRATE_1

SER_BITRATE_2

SER_BITRATE_3

SER_BITRATE_4

Set baud rate of serial port

Type unsigned char

Values

0	2400 bps
1	4800 bps
2	9600 bps
3	19200 bps
4	38400 bps
5	57600 bps
6	115200 bps

Comment

Side Effect

SER_DATABIT_1

SER_DATABIT_2

SER_DATABIT_3

SER_DATABIT_4

Set data bit of serial port

Type unsigned char

Values

0	5 bit
1	6 bit
2	7 bit
3	8 bit

Comment

Side Effect

SER_PARITY_1
SER_PARITY_2
SER_PARITY_3
SER_PARITY_4

Set parity of serial port

Type unsigned char

Values

0	None
1	Even
2	Odd

Comment

Side Effect

SER_STOPBIT_1
SER_STOPBIT_2
SER_STOPBIT_3
SER_STOPBIT_4

Set stop bit of serial port

Type unsigned char

Values

0	1 bit
1	2 bit

Comment

Side Effect

SER_SENSORTYPE_1
SER_SENSORTYPE_2
SER_SENSORTYPE_3
SER_SENSORTYPE_4

Set contact type of sensor device

Type unsigned char

Values

0	Off
1	Normal-Open
2	Normal-Close

Comment

TCS-200 : SER_SENSORTYPE_1 and SER_SENSORTYPE_2 are valid,

TCAM series : only SER_SENSORTYPE_1 is valid

Side Effect

SER_PTZTYPE

PTZ type

Type unsigned char

Values

0	None
1	Sungjin
2	Fine
3	*Pelco-D*
4	*Pelco-P*
5	*ScandomeII*
6	*Samsung*
7	*Oriental*
8	*Sungjin MPU*
9	*D-Max*
10	*Mikami*
11	*RVision*
12	*Geosan*
13	*Sanyo*
14	*Samsung-Techwin*
15	*Sony*
16	*Dynacolor*
17	*LG-Multix*
18	*Cynix*
19	*VICON*
20	*BBV*
21	*Scandome-3*
22	*MSC protocol*
23	*Tokina*
24	*WONWOO*
25	*DY-elec*
26	*PU CCTV*
27	*KEX CCTV*

28	*Inter M*
29	*KALATEL*
30	*American Dynamics*
31	*BOSCH type2*
32	*BOSCH type4*
33	*BOSCH type8*
34	*JAVELIN*
35	*NIKO*
36	*OULIM*
37	*Forward Vision*

Comment

PTZ type can be added on demand.

Side Effect

SER_PTZID

PTZ ID

Type unsigned char

Values

0~255

Comment

Side Effect

SER_PTZPORT

Serial port to use for PTZ control

Type unsigned char

Values

0~1 0: RS-232C, 1: RS-485

Comment

TCS-200 only

Side Effect

SER_SEN1SCHESUN ~ SER_SEN1SCHESAT
SER_SEN2SCHESUN ~ SER_SEN2SCHESAT
SER_SEN3SCHESUN ~ SER_SEN3SCHESAT
SER_SEN4SCHESUN ~ SER_SEN4SCHESAT

Sensor enable schedule by day of the week and time

Type 32 bytes, array type

Values

From Array[0] to Array[23]are valid. Only 24 digits are used in HTTP API

Array[0] represents 0:00:00 ~ 0:59:59, Array[1] represents 1:00:00 ~ 1:59:59

Each value can be 0 or 1

0 *Disable*

1 *Enable*

Comment

TCS-200 : schedule of sensor 1 and sensor 2 are valid

TCAM series : schedule of sensor 1 is valid

Side Effect

String for HTTP API

Read/Write : SER_SEN1SCHESUN=000011110000111100001111

SER_DIRECTKEYBOARD

Enable direct connection of PTZ keyboard to TCAM-530 for controlling of zoom and focus

Type unsigned char

Values

0 Off

1 On

Comment

TCam-530 only

Side Effect

SER_POSSESSIONTIME

Set serial port possession time of each client.

Type unsigned char

Values

0 Off

1~10 Seconds

Comment

Side Effect

2.7 Event Configuration

EVT_LOCALSENSOR_1
EVT_LOCALSENSOR_2
EVT_LOCALSENSOR_3
EVT_LOCALSENSOR_4

Action on local sensor trigger

Type unsigned short

Values

1 (0x01)	Beep enable
2 (0x02)	Alarm 1 Enable
4 (0x04)	Alarm 2 Enable
8 (0x08)	E-mail Notification Enable
16 (0x10)	FTP Upload Enable
32 (0x20)	Preset Enable
64 (0x40)	Google Drive Enable
128 (0x80)	OSD Enable
256 (0x100)	HTTP Action Enable

Multiple actions can be specified using bitwise OR-ing.

Comment

Side Effect

String for HTTP API

Read/Write : EVT_LOCALSENSOR_1=16

EVT_REMOTESENSOR_1
EVT_REMOTESENSOR_2
EVT_REMOTESENSOR_3
EVT_REMOTESENSOR_4

Action on remote sensor trigger

Type unsigned short

Values

1 (0x01)	Beep enable
2 (0x02)	Alarm 1 Enable
4 (0x04)	Alarm 2 Enable
8 (0x08)	E-mail Notification Enable

16 (0x10)	FTP Upload Enable
32 (0x20)	Preset Enable
64 (0x40)	Google Drive Enable
128 (0x80)	OSD Enable
256 (0x100)	HTTP Action Enable

Multiple actions can be specified using bitwise OR-ing.

Comment

Side Effect

EVT_LOCALLOSS
EVT_REMOTELOSS

Action on local/remote video loss detection

Type unsigned short

Values

1 (0x01)	Beep enable
2 (0x02)	Alarm 1 Enable
4 (0x04)	Alarm 2 Enable
8 (0x08)	E-mail Notification Enable
16 (0x10)	FTP Upload Enable
32 (0x20)	Preset Enable
64 (0x40)	Google Drive Enable
128 (0x80)	OSD Enable
256 (0x100)	HTTP Action Enable

Multiple actions can be specified using bitwise OR-ing.

Comment

Encoder: only EVT_LOCALLOSS is valid

Decoder: only EVT_REMOTELOSS is valid

Side Effect

EVT_LOCALMOTION
EVT_REMOTEMOTION

Action on local/remote motion detection

Type unsigned short

Values

1 (0x01)	Beep enable
2 (0x02)	Alarm 1 Enable
4 (0x04)	Alarm 2 Enable
8 (0x08)	E-mail Notification Enable
16 (0x10)	FTP Upload Enable
32 (0x20)	Preset Enable
64 (0x40)	Google Drive Enable
128 (0x80)	OSD Enable
256 (0x100)	HTTP Action Enable

Multiple actions can be specified using bitwise OR-ing.

Comment

Encoder: only EVT_LOCALMOTION is valid

Decoder: only EVT_REMOTEMOTION is valid

Side Effect

EVT_DISCONNECT

Action on Link disconnection

Type unsigned short

Values

1 (0x01)	Beep enable
2 (0x02)	Alarm 1 Enable
4 (0x04)	Alarm 2 Enable
8 (0x08)	E-mail Notification Enable
16 (0x10)	FTP Upload Enable
32 (0x20)	Preset Enable
64 (0x40)	Google Drive Enable
128 (0x80)	OSD Enable
256 (0x100)	HTTP Action Enable

Multiple actions can be specified using bitwise OR-ing.

Comment

Encoder: when all connections with decoder/clients are lost

Decoder: when the connection to Encoder is lost

Duplex: when the connection to peer is lost

Side Effect

EVT_LOCALAUDIODETECTION
EVT_REMOTEAUDIODETECTION

Action on local/remote audio detection

Type unsigned short

Values

1 (0x01)	Beep enable
2 (0x02)	Alarm 1 Enable
4 (0x04)	Alarm 2 Enable
8 (0x08)	E-mail Notification Enable
16 (0x10)	FTP Upload Enable
32 (0x20)	Preset Enable
64 (0x40)	Google Drive Enable
128 (0x80)	OSD Enable
256 (0x100)	HTTP Action Enable

Multiple actions can be specified using bitwise OR-ing.

Comment

Encoder: only EVT_LOCALAUDIODETECTION is valid

Decoder: only EVT_REMOTEAUDIODETECTION is valid

Side Effect

EVT_LINECROSSING
EVT_INTRUSION
EVT_TAMPERING

Action on IVS(Intelligent video surveillance) Event.

Type unsigned short

Values

1 (0x01)	Beep enable
2 (0x02)	Alarm 1 Enable
4 (0x04)	Alarm 2 Enable
8 (0x08)	E-mail Notification Enable
16 (0x10)	FTP Upload Enable
32 (0x20)	Preset Enable
64 (0x40)	Google Drive Enable
128 (0x80)	OSD Enable

256 (0x100) HTTP Action Enable

Multiple actions can be specified using bitwise OR-ing.

Comment

Encoder Only.

Need IVS License.

Side Effect

EVT_BEEPDURATION
EVT_RELAYDURATION_1
EVT_RELAYDURATION_2

Dwell time of Beep or Alarm

Type unsigned char

Values

0	Synchronous
1	1 second
2	5 seconds
3	10 seconds
4	30 seconds
5	60 seconds
6	continuous.

Comment

TCAM series: only EVT_RELAYDURATION_1 is valid.

Side Effect

EVT_PRETIME
EVT_POSTTIME

Set pre and post time for event recording

Type unsigned char

Values

0	None
1	1 second
2	5 seconds
3	10 seconds
4	20 seconds
5	30 seconds

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_EMAILSERVER

Set SMTP server address for event recording.

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_EMAILID

Set ID for accessing SMTP server if authentication needed.

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_EMAILPASS

Set password for accessing SMTP server if authentication needed.

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_EMAILDEST

Set e-mail destination addresses for event recording.

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_EMAILVATTACH

Set whether attach video clip in the e-mail.

Type unsigned char

Values

0	Off
1	Primary Channel Video
2	Secondary Channel Video(H.264 only)
3	JPEG Capture

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_EMAILAUTHENT

Do authentication procedure on SMTP server.

Type unsigned char

Values

0	Off
1	On

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_FTPSERVER

Set FTP server address for event recording.

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_FTPPORT

Set port number of FTP server for event recording.

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_FTPID

Set ID for accessing FTP server.

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_FTPPASS

Set password for accessing FTP server.

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_EMAILPORT

Set port number of SMTP server for event recording.

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_PRESETLOCALSENSOR_1
EVT_PRESETLOCALSENSOR_2
EVT_PRESETLOCALSENSOR_3
EVT_PRESETLOCALSENSOR_4

Set preset position on local sensor trigger

Type unsigned short

Values

0	No Preset
1 ~ 512	Preset #1 ~ #500

Comment

TCS-200 : EVT_PRESETLOCALSENSOR_1 and
EVT_PRESETLOCALSENSOR _2 are valid
TCAM series : EVT_PRESETLOCALSENSOR _1 is valid

Side Effect

EVT_PRESETREMOTESENSOR_1
EVT_PRESETREMOTESENSOR_2
EVT_PRESETREMOTESENSOR_3
EVT_PRESETREMOTESENSOR_4

Set preset position on remote sensor trigger

Type unsigned short

Values

0	No Preset
1 ~ 512	Preset #1 ~ #500

Comment

TCS-200 : EVT_PRESETREMOTESENSOR_1 and
EVT_PRESETREMOTESENSOR _2 are valid
TCAM series : EVT_PRESETREMOTESENSOR _1 is valid

Side Effect

EVT_PRESETLOCALLOSS
EVT_PRESETREMOTELOSS

Set preset position on local/remote video loss detection

Type unsigned short

Values

0	No Preset

1 ~ 512 Preset #1 ~ #500

Comment

Encoder: only EVT_PRESETLOCALLOSS is valid

Decoder: only EVT_PRESETREMOTELOSS is valid

Side Effect

EVT_PRESETLOCALMOTION
EVT_PRESETREMOTEMOTION

Set preset position on local/remote motion detection

Type unsigned short

Values

0 No Preset

1 ~ 512 Preset #1 ~ #500

Comment

Encoder: only EVT_PRESETLOCALMOTION is valid

Decoder: only EVT_PRESETREMOTEMOTION is valid

Side Effect

EVT_PRESETDISCONNECT

Set preset position on Link disconnection

Type unsigned short

Values

0 No Preset

1 ~ 512 Preset #1 ~ #500

Comment

Encoder: when all connections with decoder/clients are lost

Decoder: when the connection to Encoder is lost

Duplex: when the connection to peer is lost

Side Effect

EVT_PRESETLOCALAUDIODETECTION
EVT_PRESETREMOTEAUDIODETECTION

Set preset position on local/remote audio detection

Type unsigned short

Values

0 No Preset

1 ~ 512	Preset #1 ~ #500

Comment

Encoder: only EVT_PRESETLOCALAUDIODETECTION is valid

Decoder: only EVT_PRESETREMOTEAUDIODETECTION is valid

Side Effect

EVT_PRESETLINECROSSING
EVT_PRESETINTRUSION
EVT_PRESETTAMPERING

Set preset position on IVS Event.

Type unsigned short

Values

0	No Preset
1 ~ 512	Preset #1 ~ #500

Comment

Encoder Only.

Need IVS License.

Side Effect

EVT_EMAILSENDER

Set sender address for accessing SMTP server

Type 64bytes array

Values

Null terminated String, Max 63 characters

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_FTPCONTUPLOAD

Set continuous upload of video via FTP

Type unsigned char

Values

0	Disable
1	Enable

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_FTPCONTDURATION

Set video capture duration when continuous upload is enabled.

Type unsigned short

Values

0 ~ 300	seconds

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_FTPCONTINTERVAL

Set upload interval when continuous upload is enabled.

Type unsigned short

Values

0 ~ 3600	seconds

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_UPLOADVIDEO

Set upload video type via FTP

Type unsigned char

Values

0	Primary Channel Video
1	Secondary Channel Video(H.264 only)
2	JPEG Capture

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

EVT_OSDLOCALSENSOR_1
EVT_OSDLOCALSENSOR_2
EVT_OSDLOCALSENSOR_3
EVT_OSDLOCALSENSOR_4

Set OSD Index on local sensor trigger

Type unsigned char

Values

0	Off
1	Event OSD 1
2	Event OSD 2
3	Event OSD 3
4	Event OSD 4

Comment

TCS-200 : EVT_PRESETLOCALSENSOR_1 and
EVT_PRESETLOCALSENSOR _2 are valid

TCAM series : EVT_PRESETLOCALSENSOR _1 is valid

Side Effect

EVT_OSDREMOTESENSOR_1
EVT_OSDREMOTESENSOR_2
EVT_OSDREMOTESENSOR_3
EVT_OSDREMOTESENSOR_4

Set OSD Index on Remote sensor trigger

Type unsigned char

Values

0	Off
1	Event OSD 1
2	Event OSD 2
3	Event OSD 3
4	Event OSD 4

Comment

TCS-200 : EVT_PRESETREMOTESENSOR_1 and
EVT_PRESETREMOTESENSOR _2 are valid

TCAM series : EVT_PRESETREMOTESENSOR _1 is valid

Side Effect

EVT_OSDLOCALLOSS
EVT_OSDREMOTELOSS

Set OSD Index on local/remote video loss detection

Type unsigned char

Values

0	Off
1	Event OSD 1
2	Event OSD 2
3	Event OSD 3
4	Event OSD 4

Comment

Encoder: only EVT_PRESETLOCALLOSS is valid

Decoder: only EVT_PRESETREMOTELOSS is valid

Side Effect

EVT_OSDLOCALMOTION
EVT_OSDREMOTEMOTION

Set OSD Index on local/remote motion detection

Type unsigned char

Values

0	Off
1	Event OSD 1
2	Event OSD 2
3	Event OSD 3
4	Event OSD 4

Comment

Encoder: only EVT_PRESETLOCALMOTION is valid

Decoder: only EVT_PRESETREMOTEMOTION is valid

Side Effect

EVT_OSDDISCONNECT

Set OSD Index on Link disconnection

Type unsigned char

Values

0	Off
1	Event OSD 1
2	Event OSD 2
3	Event OSD 3
4	Event OSD 4

Comment

Encoder: when all connections with decoder/clients are lost

Decoder: when the connection to Encoder is lost

Duplex: when the connection to peer is lost

Side Effect

EVT_OSDLOCALAUDIODETECTION
EVT_OSDREMOTEAUDIODETECTION

Set OSD Index on local/remote audio detection

Type unsigned char

Values

0	Off
1	Event OSD 1
2	Event OSD 2
3	Event OSD 3
4	Event OSD 4

Comment

Encoder: only EVT_PRESETLOCALAUDIODETECTION is valid

Decoder: only EVT_PRESETREMOTEAUDIODETECTION is valid

Side Effect

EVT_OSDLINECROSSING
EVT_OSDINTRUSION
EVT_OSDTAMPERING

Set OSD Index on IVS Event.

Type unsigned char

Values

0	Off
1	Event OSD 1
2	Event OSD 2
3	Event OSD 3
4	Event OSD 4

Comment

Encoder Only.

Need IVS License.

Side Effect

EVT_HTTPLOCALSENSOR_1
EVT_HTTPLOCALSENSOR_2
EVT_HTTPLOCALSENSOR_3
EVT_HTTPLOCALSENSOR_4

Set HTTP action Index on local sensor trigger

Type unsigned char

Values

0	Off
1	HTTP Action 1
2	HTTP Action 2
3	HTTP Action 3
4	HTTP Action 4

Comment

TCS-200 : EVT_PRESETLOCALSENSOR_1 and
EVT_PRESETLOCALSENSOR _2 are valid

TCAM series : EVT_PRESETLOCALSENSOR _1 is valid

Side Effect

EVT_HTTPREMOTESENSOR_1
EVT_HTTPREMOTESENSOR_2
EVT_HTTPREMOTESENSOR_3
EVT_HTTPREMOTESENSOR_4

Set HTTP action Index on Remote sensor trigger

Type unsigned char

Values

0	Off
1	HTTP Action 1
2	HTTP Action 2
3	HTTP Action 3
4	HTTP Action 4

Comment

TCS-200 : EVT_PRESETREMOTESENSOR_1 and
EVT_PRESETREMOTESENSOR _2 are valid

TCAM series : EVT_PRESETREMOTESENSOR _1 is valid

Side Effect

EVT_HTTPLOCALLOSS
EVT_HTTPREMOTELOSS

Set HTTP action Index on local/remote video loss detection

Type unsigned char

Values

0	Off
1	HTTP Action 1
2	HTTP Action 2
3	HTTP Action 3
4	HTTP Action 4

Comment

Encoder: only EVT_PRESETLOCALLOSS is valid

Decoder: only EVT_PRESETREMOTELOSS is valid

Side Effect

EVT_HTTPLOCALMOTION
EVT_HTTPREMOTEMOTION

Set HTTP action Index on local/remote motion detection

Type unsigned char

Values

0	Off
1	HTTP Action 1
2	HTTP Action 2
3	HTTP Action 3
4	HTTP Action 4

Comment

Encoder: only EVT_PRESETLOCALMOTION is valid

Decoder: only EVT_PRESETREMOTEMOTION is valid

Side Effect

EVT_HTTPDISCONNECT

Set HTTP action Index on Link disconnection

Type unsigned char

Values

0	Off
1	HTTP Action 1

2	HTTP Action 2
3	HTTP Action 3
4	HTTP Action 4

Comment

Encoder: when all connections with decoder/clients are lost

Decoder: when the connection to Encoder is lost

Duplex: when the connection to peer is lost

Side Effect

EVT_HTTPLOCALAUDIODETECTION
EVT_HTTPREMOTEAUDIODETECTION

Set HTTP action Index on local/remote audio detection

Type unsigned char

Values

0	Off
1	HTTP Action 1
2	HTTP Action 2
3	HTTP Action 3
4	HTTP Action 4

Comment

Encoder: only EVT_PRESETLOCALAUDIODETECTION is valid

Decoder: only EVT_PRESETREMOTEAUDIODETECTION is valid

Side Effect

EVT_HTTPLINECROSSING
EVT_HTTPINTRUSION
EVT_HTTPTAMPERING

Set HTTP action Index on IVS Event.

Type unsigned char

Values

0	Off
1	HTTP Action 1
2	HTTP Action 2
3	HTTP Action 3
4	HTTP Action 4

Comment

Encoder Only.

Need IVS License.

Side Effect

2.8 Display Configuration

DIS_LOCALSENSOR
DIS_REMOTESENSOR

Set whether status of local(remote) sensor is to be displayed on the monitor

Type unsigned char

Values

0	Off
1	On event
2	Always

Comment

Valid only when system mode is Decoder or Duplex.

Side Effect

DIS_MOTION

Set whether motion detection status is to be displayed on the monitor

Type unsigned char

Values

0	Off
1	On

Comment

Valid only when system mode is Decoder or Duplex.

Side Effect

DIS_SITEVIEW

System ID display on video output

Type unsigned char

Values

0	Off
1	Local // Display local(Decoder's) ID
2	Remote //Display remote(Encoder's) ID

Comment

Valid only when system mode is Decoder or Duplex.

Side Effect

DIS_SITEPOSITION

Position of system ID display

Type unsigned char

Values

0	Bottom
1	Top

Comment

Valid only when system mode is Decoder or Duplex.

Side Effect

DIS_LEDVIEW

Usage of Data LED

Type unsigned char

Values

0	Video
1	Audio
2	Serial

Comment

TCS-200 only

Side Effect

2.9 User Configuration

User configuration is supported only in HTTP API.

USR_DEL

Delete user with user ID

Type String

Values

User ID	*max 15 characters*

Comment

Write-only

Side Effect

String for HTTP API

Write : USR_DEL=UserID

USR_ADD

Add new user

Type String (*UserID:Password:Priority)*

Values

User ID and Password : max 15 characters

Priority

0 *admin*

1 *manager*

2 *user*

3 *guest*

Comment

Write-only

Side Effect

String for HTTP API

Write : USR_ADD=UserID:1234:2

~~USR_MODPASS~~

~~Modify Password of the use~~r

~~**Type** String (*UserID:OldPassword:NewPassword)*~~

~~**Values**~~

~~*User ID and Password : max 15 characters*~~

~~**Comment**~~

~~Write-only~~

~~**Side Effect**~~

~~**String for HTTP API**~~

~~Write : USR_MODPASS=UserID:1234:432~~1

USR_MODPRI

Modify Priority of the user

Type String (*UserID:Priority)*

Values

User ID : max 15 characters

Priority

0 *admin*

1 *manager*

2 *user*

3 *guest*

Comment

Write-only

Side Effect

String for HTTP API

Write : USR_MODPRI=UserID:1

USR_LIST

Get all user list with User Id and Priority

Type String (*UserID1:Priority1:UserID2:Priority2:…)*

Values

User ID : max 15 characters

Priority

0 *admin*

1 *manager*

2 *user*

3 *guest*

Comment

Read-only

Side Effect

String for HTTP API

Read : USR_LIST=admin:0:testuser:1:guest:3

USR_CHECKUSER

Check ID and password and read privilege level of that user

Type String (*UserID:Password)*

User ID and Password : max 15 characters

Comment

Write-only

Do not use with other configuration values in a command.

Side Effect

String for HTTP API

Write : USR_CHECKUSER=admin:1234

Return

USR_CHECKUSER=0 // privilege level is 'Admin'

USR_CHECKUSER=1 // privilege level is 'Manager'

USR_CHECKUSER=2 // privilege level is 'User'

USR_CHECKUSER=3 // privilege level is 'Guest'

USR_CHECKUSER=E0 // Unknown user

USR_CHECKUSER=E1 // Password Mismatch

USR_CHECKUSER=E9 // Unknown error

2.10 Record Configuration

REC_ENABLE

Enable or disable recording

Type unsigned char

Values

0 Disable

1 Enable

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

System reboot only when set to enable.

REC_DISKTYPE

Read current disk status, only for HTTP API user.

Type String

Values

Comment

Valid only when SYS_MODE is Encoder.

Read-only

Side Effect

String for HTTP API

Read : REC_DISKTYPE=USB Disk available

REC_DISKSIZE

Read disk size, only for HTTP API user.

Type String

Values

Comment

Valid only when SYS_MODE is Encoder.

Read-only

Side Effect

String for HTTP API

Read : REC_DISKSIZE=230.25G

REC_DISKAVAILABLE

Read available size, only for HTTP API user.

Type String

Values

Comment

Valid only when SYS_MODE is Encoder.

Read-only

Side Effect

String for HTTP API

Read : REC_DISKAVAILABLE=72.48G

REC_OVERWRITE

Enable or disable overwrite

Type unsigned char

Values

0 Disable

1 Enable

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

REC_EVTTYPE1
REC_EVTTYPE2
REC_EVTTYPE3
REC_EVTTYPE4

Make event type for setting schedule table

Type unsigned char

Values

1 (0x01)	Sensor 1
2 (0x02)	Sensor 2 (TCS-200 only)
4 (0x04)	Video Loss
8 (0x08)	Motion Detection

Multiple events can be specified using bitwise OR-ing.

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

String for HTTP API

Read/Write : REC_EVTTYPE1=6

REC_PRETIME
REC_POSTTIME

Set pre and post time for recording

Type unsigned char

Values

0	None
1	1 second
2	5 seconds
3	10 seconds
4	20 seconds
5	30 seconds

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

String for HTTP API

Read/Write : REC_PRETIME=5

REC_SCHESUN ~ REC_SCHESAT

Recording schedule by day of the week and time

Type 32 bytes, array type

Values

From Array[0] to Array[23]are valid. Only 24 digits are used in HTTP API

Array[0] represents 0:00:00 ~ 0:59:59, Array[1] represents 1:00:00 ~ 1:59:59

Each value can be 0 ~ 6

0	*Record Off*
1	*Continuous*
2	*Disconnect*
3	*Event Type1*
4	*Event Type2*
5	*Event Type3*
6	*Event Type4*

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

String for HTTP API

Read/Write : REC_SCHESUN=111133000044444444441111

REC_FORMAT

Command disk format

Type No parameter

Values

Comment

Valid only when SYS_MODE is Encoder.

Write-only

Do not use with other configuration values in a command.

Side Effect

System reboot

REC_MAXFILESIZE

Set maximum file size for recording

Type unsigned char

Values

0	10 Mbytes
1	20 Mbytes
2	50 Mbytes
3	100 Mbytes
4	200 Mbytes

Comment

Valid only when SYS_MODE is Encoder.

Side Effect

String for HTTP API

Read/Write : REC_MAXFILESIZE=2

REC_DISKINFO

Read DiskInfo

Type

Values

Comment

-1 : Error

Side Effect

String for HTTP API

Read : REC_DISKINFO=0

REC_MANUALREC

Set Manual record

Type unsigned char

Values

0	Off
1	On

Comment

Side Effect

REC_MAXFILELENGTH

Set Record File Max Length(Time)

Type unsigned char

Values

Dependent on REC_RECORDFILEFORMAT(0 or 2)

	0 (AVI)	2 (MP4)
0	1 Minute	1 Minute
1	5 Minutes	5 Minutes
2	10 Minute	10 Minutes
3	30 Minutes	30 Minutes
4	1 Hour	1 Hour
5	Unlimited	-

Comment

Side Effect

REC_BACKUPTOFTP

Enable record Backup to FTP

Type unsigned char

Values

0	Off
1	On

Comment

Side Effect

REC_ERASEAFTERBACKUP

Enable erase after ftp backup

Type unsigned char

Values

0	Off
1	On

Comment

Side Effect

REC_STARTBACKUP

Set Start Time of Backup Data

Type JY_Time_Type (8bytes), See SYS_STARTTIME

Values

Comment

Side Effect

String for HTTP API

Write :	REC_STARTBACKUP=2008/04/08%2016:14:30
Read :	REC_STARTBACKUP =2008/04/08 16:14:30

REC_RECORDVIDEO

Select Video(Primary, Secondary#1 ~ Secondary#3)

Type unsigned char

Values

0	Primary
1	Secondary#1

2	Secondary#2
3	Secondary#3

Comment

Side Effect

REC_RECORDFILEFORMAT

Select Record File Format

Type unsigned char

Values

0	AVI
2	MP4

Comment

Side Effect

2.11 PTZ Configuration

PTZ_AUTOPARKINGTIME

Set auto parking time of speed dome camera.

Type unsigned short

Values

0	off
1 ~ 3600	Seconds

Comment

Applied Model

Side Effect

PTZ_AUTOPARKINGACTION

Set auto parking action of speed dome camera.

Type unsigned short

Values

0	none
1 ~ 500	preset-1 ~ preset-500(except 131~134, 141~148, 151~158, 161~162, 167, 174~175, 177~179)
131~134	pattern-1~pattern-4
141~148	swing-1~ swing-8

151~158 group-1~group-8

Comment

Applied Model

Side Effect

PTZ_AUTOPARKINGACTION1
PTZ_AUTOPARKINGACTION2
PTZ_AUTOPARKINGACTION3
PTZ_AUTOPARKINGACTION4

Set auto parking action.

Type unsigned short

Values

0 none

1 ~ 500 preset-1 ~ preset-500(except 131~134, 141~148, 151~158, 161~162, 167, 174~175, 177~179)

131~134 pattern-1~pattern-4

141~148 swing-1~ swing-8

151~158 group-1~group-8

Comment

Applied Model

Side Effect

PTZ_GROUPxxACTIONyy

Set group action of speed dome camera.

xx :group number (00~07)

yy :index number in the group (00~19)

Type unsigned short

Values

0 none

1 ~ 500 preset-1 ~ preset-500(except 131~134, 141~148, 151~158, 161~162, 167, 174~175, 177~179)

131~134 pattern-1~pattern-4

141~148 swing-1~ swing-8

Comment

Applied Model

Side Effect

PTZ_GROUPxxDWELLyy

Set group dwell time of speed dome camera.

xx :group number (00~07)

yy :index number in the group (00~19)

Type unsigned char

Values

0 ~ 255 seconds

Comment

Applied Model

Side Effect

PTZ_GROUPxxOPTIONyy

Set group option of speed dome camera.

xx :group number (00~07)

yy :index number in the group (00~19)

Type unsigned char

Values

0 ~ 255 speed when action is preset, repeat when others

Comment

Applied Model

Side Effect

PTZ_GROUPxxENABLEyy

Set group enable of speed dome camera.

xx :group number (00~07)

yy :index number in the group (00~19)

Type unsigned char

Values

0 disable

1 enable

Comment

Applied Model

Side Effect

PTZ_GroupxxWITHTRACKING

Enable Simultaneous Action With Motion Tracking in Group.

Type unsigned char

Values

0	*Off*
1	*On*

Comment

Applied Model

Side Effect

PTZ_SWINGENABLExx

Set swing enable of speed dome camera.

xx :swing number (00~07)

Type unsigned char

Values

0	disable
1	enable

Comment

Applied Model

Side Effect

PTZ_SWING1STPOSxx

Set swing 1st position of speed dome camera.

xx :swing number (00~07)

Type unsigned char

Values

0 ~ 128	preset number

Comment

Applied Model

Side Effect

PTZ_SWING2NDPOSxx

Set swing 2nd position of speed dome camera.

xx :swing number (00~07)

Type unsigned char

Values

0 ~ 128 preset number

Comment

Applied Model

Side Effect

PTZ_SWINGSPEEDxx

Set swing speed of speed dome camera.

xx :swing number (00~07)

Type unsigned char

Values

0 ~ 255 speed

Comment

Applied Model

Side Effect

PTZ_PTCondTime

Set PresetTour RecurringTime.(PTZ Group#8)

Type unsigned int

Values

0 ~ 10000

Comment

Group #8 is dedicated to ONVIF PresetTour.

Applied Model

Side Effect

PTZ_PTCondDuration

Set PresetTour Recurring Duration.(PTZ Group#8)

Type unsigned int

Values

0 ~ 10000 *sec*

Comment

Group #8 is dedicated to ONVIF PresetTour.

Applied Model

Side Effect

PTZ_PTName

Set PresetTour Name.(PTZ Group#8)

Type 32bytes array

Values

Null terminated String, Max 30 characters.

Comment

Group #8 is dedicated to ONVIF PresetTour.

Applied Model

Side Effect

PTZ_ExtPTZAddr

Set PTZ Camera IP Address

Type 32bytes array

Values

IP address Big-endian

Comment

Applied Model

Side Effect

PTZ_ExtPTZHttpPort

Set PTZ Camera http port

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Applied Model

Side Effect

PTZ_ExtPTZBasePort

Set PTZ Camera base port

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Applied Model

Side Effect

PTZ_ExtPTZUse

Use PTZ Linkage

Type unsigned char

Values

0	Off
1	On

Comment

Applied Model

Side Effect

PTZ_ExtPTZCentering

Set centering

Type unsigned char

Values

0	Off
1	On

Comment

Applied Model

Side Effect

PTZ_ExtPTZDragandZoom

Set Drag and Zoom

Type unsigned char

Values

0	Off
1	On

Comment

Applied Model

Side Effect

PTZ_ExtPTZAutoMode

Set Auto Mode

Type unsigned char

Values

0	Off

1	Motion based
2	IVS based

Comment

Applied Model

Side Effect

PTZ_ExtPTZZoomEffective

Set Zoom enable at auto

Type unsigned char

Values

0	Off
1	On

Comment

Applied Model

Side Effect

PTZ_ExtPTZPauseDuration

Set Pause Duration at Auto

Type unsigned char

Values

0 ~ 255	sec

Comment

Applied Model

Side Effect

2.12 Camera Configuration

CAM_SONY_WBMode

White balance mode of Sony Zoom Module applied camera

Type unsigned char

Values

0	Auto
1	Manual
2	Indoor
3	Outdoor

4	Outdoor Auto
5	ATW
6	Sodium Lamp Auto (SE600 only)
7	Sodium Lamp (SE600 only)

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_RGain
CAM_SONY_BGain

Red/Blue gain of Sony Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_AEMode

Auto Exposure mode of Sony Zoom Module applied camera

Type unsigned char

Values

0	Full Auto
1	Manual
2	Shutter Priority
3	Iris Priority
4	Brightness

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_DSSMode

DSS mode of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1	Auto

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_DSSLimit

DSS Limit of Sony Zoom Module applied camera

Type unsigned char

Values

0	1/30
1	1/15
2	1/8
3	1/4
4	1/2
5	1/1

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_DN

Day&Night mode of Sony Zoom Module applied camera

Type unsigned char

Values

0	Day (Color)
1	Night (B/W)
2	Auto
3	*External Sensor*

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_DN_Threshold

Night to Day transition threshold of Sony Zoom Module applied camera

Type unsigned char

Values

Group1 : 0 ~ 255*

Group2 : 0 ~ 30*

Group3 : 0 ~ 16*

Group4 : 0 ~ 28*

Comment

4 Config Set are supported

Group1 : P4, P5 Model

Group2 : SE600 Module(except Group1)

Group3 : EV7500 or EV7300 or EV7310 or EV7520 or EV7320 or EV7517 or EV7317 Module(except Group1)

Group4 : etc

Applied Model

Side Effect

CAM_SONY_ND_Threshold

Day to Night transition threshold of Sony Zoom Module applied camera

Type unsigned char

Values

Group1 : 0 ~ 255*

Group2 : 0 ~ 30*

Group3 : 0 ~ 16*

Group4 : 0 ~ 28*

Comment

4 Config Set are supported

Group1 : P4, P5 Model

Group2 : SE600 Module(except Group1)

Group3 : EV7500 or EV7300 or EV7310 or EV7520 or EV7320 or EV7517 or EV7317 Module(except Group1)

Group4 : etc

Applied Model

Side Effect

CAM_SONY_FLIP

Image Flip of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_DZ

Digital Zoom of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_WDR

WDR of Sony Zoom Module applied camera

Type unsigned char

Values

	*Group1**	*Group2**
0	Off	Off
1	VE On	On

Comment

4 Config Set are supported

Group1 : EV7310 or EV7517 or EV7317

Group2 : etc.

Applied Model

Side Effect

CAM_SONY_BLC

Back Light Compensation of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_Brightness

Brightness of Sony Zoom Module applied camera

Type unsigned char

Values

0 ~ 31

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_Iris

Iris of Sony Zoom Module applied camera

Type unsigned char

Values

	*Group1**	*Group2**
0	CLOSE	CLOSE
1	F19	-
2	F16	-
3	F14	-
4	F11	-
5	F9.6	F14
6	F8.0	F11
7	F6.8	F9.6

8	F5.6	F8.0
9	F4.8	F6.8
10	F4.0	F5.6
11	F3.4	F4.8
12	F2.8	F4.0
13	F2.4	F3.4
14	F2.0	F2.8
15	F1.6	F2.4
16	F1.4	F2.0
17	F1.2	F1.6

Comment

4 Config Set are supported

Group1 : SE600 Module

Group2 : etc.

Applied Model

Side Effect

CAM_SONY_Shutter

Shutter of Sony Zoom Module applied camera

Type unsigned char

Values

	*Group1**	*Group2**
0	1/2	1/2
1	1/4	1/4
2	1/8	1/8
3	1/15	1/15
4	1/30	1/25
5	1/60	1/50
6	1/90	1/75
7	1/100	1/100
8	1/125	1/120
9	1/180	1/150
10	1/250	1/215
11	1/350	1/300
12	1/500	1/425

13	1/725	1/600
14	1/1000	1/1000
15	1/1500	1/1250
16	1/2000	1/1750
17	1/3000	1/2500
18	1/4000	1/3500
19	1/6000	1/6000
20	1/10000	1/10000

Comment

4 Config Set are supported

Group1 : NTSC

Group2 : PAL

Applied Model

Side Effect

CAM_SONY_Gain

Gain of Sony Zoom Module applied camera

Type unsigned char

Values

	*Group1**	*Group2**	*Group3**	*Group4**
0	*-3 dB*	-	-	-
1	*0 dB*	*0 dB*	*0 dB*	*0 dB*
2	*3 dB*	*3.5 dB*	*3.4 dB*	*2 dB*
3	*6 dB*	*7 dB*	*6.8 dB*	*4 dB*
4	*9 dB*	*10.5 dB*	*10.2 dB*	*6 dB*
5	*12 dB*	*14 dB*	*13.7 dB*	*8 dB*
6	*15 dB*	*17.4 dB*	*17.1 dB*	*10 dB*
7	*18 dB*	*20.9 dB*	*20.5 dB*	*12 dB*
8	-	*24.4 dB*	*23.9 dB*	*14 dB*
9	-	*27.9 dB*	*27.3 dB*	*16 dB*
10	-	*31.4 dB*	*30.7 dB*	*18 dB*
11	-	*34.9 dB*	*34.1 dB*	*20 dB*
12	-	*38.4 dB*	*37.5 dB*	*22 dB*
13	-	*41.9 dB*	*41 dB*	*24 dB*
14	-	*45.3 dB*	*44.4 dB*	*26 dB*

15	*-*	*48.8 dB*	*47.8 dB*	*28 dB*

Comment

4 Config Set are supported

Group1 : X10S

Group2 : EV7300

Group3 : EV7310 or EV7520 or EV7320 or EV7517 or EV7317

Group4 : etc.

Applied Model

Side Effect

CAM_SONY_APT_LEVEL

Aperture Level of Sony Zoom Module applied camera

Type unsigned char

Values

Group1 : 0 ~ 15*

Group2 : 0 ~ 255*

Comment

4 Config Set are supported

Group1 : EH6300(Old Version) Module

Group2 : etc.

Applied Model

Side Effect

CAM_SONY_MIRROR

Mirror of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_NR

Noise Reduction of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1 ~ 5	Level1 ~ Level5

Comment

4 Config Set are supported

Applied Model

Except EV7520, EV7320, EV7517 and EV7317

Side Effect

CAM_SONY_MinFocusLength

Min Focus Length of Sony Zoom Module applied camera

Type unsigned char

Values

	*Group1**	*Group2**	*Group3**
0	1cm	1cm	1cm
1	8cm	11cm	5cm
2	30cm	30cm	10cm
3	1m	0.8m	30cm
4	1.23m	1.2m	1m
5	1.5m	1.4m	1.2m
6	1.85m	1.65m	1.5m
7	2.3m	2.0m	2m
8	2.9m	2.5m	3m
9	3.7m	3.1m	5m
10	4.9m	4.2m	10m
11	7m	6m	
12	11m	10m	
13	25m	20m	

Comment

4 Config Set are supported

Applied Model

EH6300, EH6500, EV7500, EV7300, EV7310, EV7520, EV7320, EV7517, EV7317, EH3300, EH3400, EH3150

Group 1 : *EH6300 or EH6500 or EV7300 or EV7310 or EV7520 or EV7320 or EV7517 or EV7317*

Group 2 : EV7500

Group 3 : EH3300 or EH3400 or EH3150

Side Effect

CAM_SONY_IS

Image Stabilizer of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

EH3400, EH6500, EV7500, EV7300

Side Effect

CAM_SONY_GammaMode

Gamma Mode of Sony Zoom Module applied camera

Type unsigned char

Values

0	Standard
1	Straight
2	Low
3	Middle
4	High
5	Normal
6	256 steps

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_GammaOffset

Gamma Offset of Sony Zoom Module applied camera

Type unsigned char

Values

-16 ~ 64

Comment

Applied Model

EV7500, EV7300, EV7310, EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_Gamma256stepsPlus
CAM_SONY_Gamma256stepsMinus

Gamma 256 steps Plus/Minus of Sony Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_SONY_AFSensitivity

Auto Focus Sensitivity of Sony Zoom Module applied camera

Type unsigned char

Values

0	Normal
1	Low

Comment

Applied Model

Side Effect

CAM_SONY_DefogMode

Defog Mode of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1	Low
2	Middle

3 High

Comment

Applied Model

EV7500, EV7300, EV7310, EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_ColorGain

Color Gain of Sony Zoom Module applied camera

Type unsigned char

Values

Group 1* 0 ~ 14

Group 2* 0 ~ 255

Comment

Applied Model

Group 1 : EH6300

Group 2 : except EH6300(Old Version)

Side Effect

CAM_SONY_ColorHue

Color Hue of Sony Zoom Module applied camera

Type unsigned char

Values

EH6300 Old Version

Group 1* 0 ~ 14

Group 2* 0 ~ 255

Comment

Applied Model

Group 1 : EH6300

Group 2 : except EH6300(Old Version)

Side Effect

CAM_SONY_HighSensitivity

High Sensitivty of Sony Zoom Module applied camera

Type unsigned char

Values

0 Off

1	On

Comment

Applied Model

EV7500, EV7300, EV7310, EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_MinimumShutterMode

Minimum Shutter Mode of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

Applied Model

EV7300, EV7310, EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_MinimumShutterLimit

Minimum Shutter Limit of Sony Zoom Module applied camera

Type unsigned char

Values

	Group 1*	Group 2*
5	1/25	1/30
6	1/50	1/60
7	1/75	1/90
8	1/100	1/100
9	1/120	1/125
10	1/150	1/180
11	1/215	1/250
12	1/300	1/350
13	1/425	1/500
14	1/600	1/725
15	1/1000	1/1000
16	1/1250	1/1500
17	1/1750	1/2000
18	1/2500	1/3000

19	1/3500	1/4000
20	1/6000	1/6000
21	1/10000	1/10000

Comment

Applied Model

EV7300, EV7310, EV7520, EV7320, EV7517, EV7317

Group1 : PAL

Group2 : NTSC

Side Effect

CAM_SONY_HighlightCorrectionMode

High Light Correction Mode of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1	Low
2	Middle
3	High

Comment

Applied Model

EV7300, EV7310, EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_HighlightCorrectionMaskLevel

High Light Correction Mask Level of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1 ~ 15	Level 1 ~ Level 15

Comment

Applied Model

EV7300, EV7310, EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_ExposureCompensationMode

Exposure Compensation Mode of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

Applied Model

Side Effect

CAM_SONY_ExposureCompensationLevel

Exposure Compensation Level of Sony Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

Applied Model

Side Effect

CAM_SONY_2DNR

2D Noise Reduction of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1 ~ 5	1 ~ 5

Comment

Applied Model

Except EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_3DNR

3D Noise Reduction of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1 ~ 5	1 ~ 5

Comment

Applied Model

Except EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_ChromaSuppress

Chroma Suppress of Sony Zoom Module applied camera

Type unsigned char

Values

0	Off
1 ~ 3	Level 1 ~ 3

Comment

Applied Model

Side Effect

CAM_SONY_WDRDisplayBrightness

WDR Display Brightness of Sony Zoom Module applied camera

Type unsigned char

Values

0	Dark
1 ~ 5	1 ~ 5
6	Bright

Comment

Applied Model

EV7500, EV7300, EV7310, EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_WDRBrightnessCompSel

WDR Brightness Comp Sel of Sony Zoom Module applied camera

Type unsigned char

Values

0	Very Dark
1	Dark
2	Standard
3	Bright

Comment

Applied Model

EV7500, EV7300, EV7310, EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_WDRCompLevel

WDR Comp Level of Sony Zoom Module applied camera

Type unsigned char

Values

0 Low

1 Middle

2 High

Comment

Applied Model

EV7500, EV7300, EV7310, EV7520, EV7320, EV7517, EV7317

Side Effect

CAM_SONY_FocusOffset

Focus Offset of Sony Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

Applied Model

Side Effect

CAM_SONY_ZoomLimit

Zoom Limit of Sony Zoom Module applied camera

Type unsigned char

Values

	Group 1*	Group 2*	Group 3*	Group 4*	Group 5*
0	x30.0	x20.0	x28.0	x20.0	x12.0
1	x25.5	x15.8	x22.8	x17.3	x10.5
2	x22.7	x13.6	x19.8	x15.4	x9.3
3	x20.7	x11.9	x17.6	x14.0	x8.3
4	x19.1	x10.6	x15.9	x12.7	x7.5
5	x17.8	x9.5	x14.4	x11.6	x6.7

6	x16.7	x8.6	x13.1	x10.6	x6.0
7	x15.7	x7.8	x11.9	x9.7	x5.4
8	x14.8	x7.0	x10.8	x8.9	x4.9
9	x14.0	x6.4	x9.8	x8.1	x4.5
10	x13.2	x5.8	x8.9	x7.4	x4.0
11	x12.5	x5.3	x8.1	x6.8	x3.7
12	x11.8	x4.9	x7.4	x6.2	x3.4
13	x11.2	x4.5	x6.8	x5.7	x3.1
14	x10.6	x4.1	x6.2	x5.3	x2.8
15	x10.0	x3.8	x5.7	x4.9	x2.6
16	x9.5	x3.5	x5.3	x4.5	x2.4

Comment

Applied Model

Group 1 : EV7500 or EV7520 or EV7517 or EH6500

Group 2 : EH6300 or EV7300 or EV7310 or EV7320 or EV7317

Group 3 : EH3400

Group 4 : EH3300

Group 5 : EH3150

Side Effect

CAM_HITACHI_WBMode

White Balance Mode of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 Auto Normal

1 Manual

2 Auto Sodium

3 Auto Mercury

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_RGain

CAM_HITACHI_BGain

Red/Blue gain of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_AEMode

Auto Exposure Mode of Hitachi Zoom Module applied camera

Type unsigned char

Values

0	Program AE
1	Program AER1 [IR Remove-1]
2	Program AER2 [IR Remove-2]
3	Program AE+ (DSS)
4	Program AER+1 (DSS) [IR Remove-1]
5	Program AER+2 (DSS) [IR Remove-2]
6	Program AER+3 (DSS) [IR Remove-3]
7	Shutter Priority
8	Exposure Priority
9	AGC priority

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_DSSLimit

DSS Limit of Hitachi Zoom Module applied camera

Type unsigned char

Values

	*Group 1**	*Group 2**	*Group 3**	*Group 4**
0	*1/25*	*1/30*	-	-
1	*1/15*	*1/15*	*1/25*	*1/30*
2	*1/8*	*1/8*	*1/12*	*1/15*
3	*1/4*	*1/4*	*1/6*	*1/8*

4	-	-	*1/3*	*1/4*
5	-	-	*1/1.5*	*1/2*

Comment

4 Config Set are supported

Group 1 : SC120 + PAL

Group 2 : SC120 + NTSC

Group 3 : SC221 + PAL

Group 4 : SC221 + NTSC

Applied Model

Side Effect

CAM_HITACHI_ICR

ICR of Hitachi Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_FLIP

Image Flip of Hitachi Zoom Module applied camera

Type unsigned char

Values

0	Off
1	Reverse
2	Mirror
3	V Invert

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_WDR

WDR of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_BLCMode

BLC Mode of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_BLC_LEVEL

BLC Level of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_Exposure

Exposure of Hitachi Zoom Module applied camera

Type unsigned char

Values

	*Group 1**	*Group 2**
0	*F1.6*	*F1.6*
1	*F2.2*	*F2.2*
2	*F3.2*	*F3.2*
3	*F4.4*	*F4.5*
4	*F6.4*	*F6.4*
5	*F8.8*	*F9.0*
6	*F12*	*F12.8*
7	*F17*	*F18.1*
8	*F24*	*F25.6*
9	*F34*	*F36.2*

Comment

4 Config Set are supported

Group 1 : SC120

Group 2 : SC221

Applied Model

Side Effect

CAM_HITACHI_Shutter

Shutter speed of Hitachi Zoom Module applied camera

Type unsigned char

Values

	*Group 1**	*Group 2**	*Group 3**
0	*1/4*	*1/1.5*	*1/2*
1	*1/8*	*1/3*	*1/4*
2	*1/15*	*1/6*	*1/8*
3	*1/30*	*1/12*	*1/15*
4	*1/50*	*1/25*	*1/30*
5	*1/60*	*1/50*	*1/60*
6	*1/100*	*1/100*	*1/100*
7	*1/120*	*1/120*	*1/120*
8	*1/180*	*1/150*	*1/180*
9	*1/250*	*1/250*	*1/250*
10	*1/500*	*1/500*	*1/500*
11	*1/1000*	*1/1000*	*1/1000*

12	*1/2000*	*1/2000*	*1/2000*
13	*1/4000*	*1/4000*	*1/4000*
14	*1/10000*	*1/10000*	*1/10000*
15	-	*1/30000*	*1/30000*
255	-	*1/0.75*	*1/1*

Comment

4 Config Set are supported

Group 1 : SC120

Group 2 : SC221 + PAL

Group 3 : SC221 + NTSC

Applied Model

Side Effect

CAM_HITACHI_AGC

AGC of Hitachi Zoom Module applied camera

Type unsigned char

Values

0	0 dB
1	6 dB
2	12 dB
3	18 dB
4	24 dB
5	30 dB

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_AFType

Auto Focus Type of Hitachi Zoom Module applied camera

Type unsigned char

Values

0	Off
1	Type A
2	Type A&B

3 Type C

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_MinFocusLength

Minimum Focus Length of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 1 cm

1 10 cm

2 30 cm

3 100 cm

4 150 cm

5 300 cm

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_FNRMode

FNR Mode of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_FNRValue

FNR Value of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 Auto-Weak

1 Auto-Medium

2 Auto-Strong

3 Manual-Fix

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_FNRLevel

FNR Level of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 15

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_YKnee

YKnee of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 127

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_AFOnePushMode

AF One Push Mode of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_ICRColor

ICR Color of Hitachi Zoom Module applied camera

Type unsigned char

Values

0	B/W
1	Color

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_IRCurve

IR Curve of Hitachi Zoom Module applied camera

Type unsigned char

Values

0	Visible
1	950 nm
2	850 nm

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_ICRThres

ICR Threshold of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 152

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_WDRAuto

WDR Auto of Hitachi Zoom Module applied camera

Type unsigned char

Values

0	Auto
1	Manual

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_WDRAutoMode

WDR Auto Mode of Hitachi Zoom Module applied camera

Type unsigned char

Values

0	WDR(offset)
1	ADWDR(offset)
2	Offset

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_RatioLevel

Ratio Level of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_HiSpeedShutterSpeed

Hi Speed Shutter Speed of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 134

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_IrisLevelOffsetData

Iris Level Offset Data of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 102

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_DZ

Digital Zoom of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 *Off*

1 *On*

Comment

Applied Model

4 Config Set are supported

HITACHI_SC221 only

Side Effect

CAM_HITACHI_EIS_EN

EIS of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 *Off*

1 *On*

Comment

Applied Model

4 Config Set are supported

HITACHI_SC120 only

Side Effect

CAM_HITACHI_EIS_FREQ

EIS Frequency of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 *10Hz*

1 *5Hz*

Comment

Applied Model

4 Config Set are supported

HITACHI_SC120 only

Side Effect

CAM_HITACHI_DFOG_MODE

Defog Mode of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 *Off*

1 ~ 3 *Mode 1 ~ Mode 3*

Comment

Applied Model

4 Config Set are supported

HITACHI_SC120, HITACHI_SC221

Side Effect

CAM_HITACHI_DFOG_LEVEL

Defog Level of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

Applied Model

4 Config Set are supported

HITACHI_SC120, HITACHI_SC221

Side Effect

CAM_HITACHI_EnhancedIntensityMode

Enhanced Intensity Mode of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

Applied Model

4 Config Set are supported

HITACHI_SC221 only

Side Effect

CAM_HITACHI_EnhancedIntensityLevel

Enhanced Intensity Level of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

Applied Model

4 Config Set are supported

HITACHI_SC221 only

Side Effect

CAM_HITACHI_Pedestal0

AGC(~ AGC ON) of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_Pedestal1

AGC(AGC ON ~ 1/3MaxAGC) of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_Pedestal2

AGC(1/3MaxAGC ~ 2/3MaxAGC) of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_Pedestal3

AGC(2/3MaxAGC ~ MaxAGC) of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_Pedestal4

AGC(MaxAGC ~) of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_ColorLevel0

AGC(~ AGC ON) of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_ColorLevel1

AGC(AGC ON ~ 1/3MaxAGC) of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_ColorLevel2

AGC(1/3MaxAGC ~ 2/3MaxAGC) of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_ColorLevel3

AGC(2/3MaxAGC ~ MaxAGC) of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_ColorLevel4

AGC(MaxAGC ~) of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_MaxAGCGain

Max AGC Gain of Hitachi Zoom Module applied camera

Type unsigned char

Values

Group 1* : 0 ~ 48

Group 2* : 0 ~ 35

Comment

4 Config Set are supported

Group 1 : SC221

Group 2 : SC120

Applied Model

Side Effect

CAM_HITACHI_ApertureMode

Aperture Mode of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 Auto

1 Manual

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_ApertureHorizontalLevel

Aperture Horizontal Level of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 63

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_ApertureVerticalLevel

Aperture Vertical Level of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 63

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HITACHI_ZoomSensUpMode

Zoom SensUp Mode of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

SC221 only

Side Effect

CAM_HITACHI_ZoomSensUpIris

Zoom SensUp Iris of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 Full Open

1 Stop Down To Level 1

Comment

4 Config Set are supported

Applied Model

SC221 only

Side Effect

CAM_HITACHI_ZoomSensUpAGC

Zoom SensUp AGC of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 32dB ~ Max

1 16dB ~ Max

Comment

4 Config Set are supported

Applied Model

SC221 only

Side Effect

CAM_HITACHI_AEControlIrisoffset

Auto Exposure Control Iris Offset of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

SC221 only

Side Effect

CAM_HITACHI_BlacklevelControlAGC0

Black Level Control AGC0 of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 32

Comment

4 Config Set are supported

Applied Model

SC221 only

Side Effect

CAM_HITACHI_BlacklevelControlAGC1

Black Level Control AGC1 of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 32

Comment

4 Config Set are supported

Applied Model

SC221 only

Side Effect

CAM_HITACHI_YgammaAGC0

YgammaAGC0 of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

4 Config Set are supported

Applied Model

SC221 only

Side Effect

CAM_HITACHI_YgammaAGC1

YgammaAGC1 of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

4 Config Set are supported

Applied Model

SC221 only

Side Effect

CAM_HITACHI_YgammaAGC2

YgammaAGC2 of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

4 Config Set are supported

Applied Model

SC221 only

Side Effect

CAM_HITACHI_YgammaAGC3

YgammaAGC3 of Hitachi Zoom Module applied camera

Type unsigned char

Values

0 ~ 128

Comment

4 Config Set are supported

Applied Model

SC221 only

Side Effect

CAM_P10_AGC

AGC of Techwin Zoom Module applied camera

Type unsigned char

Values

0	Off
1	Low
2	Middle
3	High
4	Manual

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_SHUTTER

Shutter Speed of Techwin Zoom Module applied camera

Type unsigned char

Values

0	ESC
1	Manual
2	Anti-Flicker

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_DN

Day&Night Mode of Techwin Zoom Module applied camera

Type unsigned char

Values

0	Day (Color)
1	Night (B/W)
2	Auto
3	*External Sensor*

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_SSNR

SSNR of Techwin Zoom Module applied camera

Type unsigned char

Values

0	Off
1	Low
2	Middle
3	High

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_IRIS

IRIS of Techwin Zoom Module applied camera

Type unsigned char

Values

0	Auto
1	Manual

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_DZ

Digital Zoom of Techwin Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_WBMODE

White Balance Mode of Techwin Zoom Module applied camera

Type unsigned char

Values

	*Group 1**	*Group 2**	*Group 3**
0	*ATW*	*ATW*	*ATW*
1	*Manual*	*Manual*	*Manual*
2	*AWC*	*AWC*	*AWC*
3	*Outdoor*	*Outdoor*	*Outdoor*
4	*Indoor*	*Indoor*	*Indoor*
5	*Auto Mercury*	*Auto Mercury*	-
6	*Auto Sodium*	-	-

Comment

4 Config Set are supported

Group 1 : SCM6321

Group 2 : SCM6201

Group 3 : etc.

Applied Model

Side Effect

CAM_P10_SUP

SensUp Mode of Techwin Zoom Module applied camera

Type unsigned char

Values

0	Off
1	Auto

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_BLC

BLC Mode of Techwin Zoom Module applied camera

Type unsigned char

Values

	*Group 1**	*Group 2**
0	*Off*	*Off*
1	*WDR*	*-*
2	*BLC*	*BLC*
3	*HSBLC*	*HSBLC*

Comment

4 Config Set are supported

Group 1 : SCM5300 or SCM3XXX or SCM6201 or SCM6321

Group 2 : etc

Applied Model

Side Effect

CAM_P10_DIS

Stabilizer Mode of Techwin Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_FLIP

Flip of Techwin Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_BLL

BLC Mode of Techwin Zoom Module applied camera

Type unsigned char

Values

	*Group 1**	*Group 2**
0	*Low*	*Low*
1	*High*	*Middle*
2	-	*High*

Comment

4 Config Set are supported

Group 1 : SCM3XXX

Group 2 : etc

Applied Model

Side Effect

CAM_P10_HLL

HLC Level of Techwin Zoom Module applied camera

Type unsigned char

Values

0	Low
1	Middle
2	High

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_WDR_LMT

WDR Limit of Techwin Zoom Module applied camera

Type unsigned char

Values

0	Low
1	Middle
2	High

Comment

Not used.

Applied Model

TCAM-370-X27/X33/X37,

TCAM-570C-X1913T, TCAM-570H-X1913T, TCAM-570S-X1913T,

Side Effect

CAM_P10_WB_RED
CAM_P10_WB_BLUE

WB Red/Blue offset of Techwin Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_BRIGHTNESS

Brightness of Techwin Zoom Module applied camera

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_SENS_UP_LMT

SensUp Limit of Techwin Zoom Module applied camera

Type unsigned char

Values

	*Group 1**	*Group 2**	*Group 3**
0	*x2*	*x2*	*x2*
1	*x4*	*x4*	*x4*
2	*x6*	*x6*	*x6*
3	*x8*	*x8*	*x8*

4	*x10*	*x10*	*x10*
5	*x12*	*x12*	*x12*
6	*x14*	*x14*	*x14*
7	*x16*	*x16*	*x16*
8	*x20*	*x24*	*x20*
9	*x24*	*x32*	*x24*
10	*x32*	*x64*	*x30*
11	*x40*	*x128*	-
12	*x48*	*x256*	-
13	*x60*	*x512*	-

Comment

4 Config Set are supported

Group 1 : SCM6200 or SCM6201 or SCM6321

Group 2 : SCM3XXX

Group 3 : etc.

Applied Model

Side Effect

CAM_P10_MAN_IRIS

Manual Iris of Techwin Zoom Module applied camera

Type unsigned char

Values

	*Group 1**	*Group 2**	*Group 3**
0	*F1.6*	*F1.35*	*F1.6*
1	*F2*	*F1.4*	*F2*
2	*F2.4*	*F1.6*	*F2.4*
3	*F2.8*	*F2*	*F2.8*
4	*F3.4*	*F2.4*	*F3.4*
5	*F4*	*F2.8*	*F4*
6	*F4.8*	*F3.4*	*F4.8*
7	*F5.6*	*F4*	*F5.6*
8	*Close*	*F4.8*	*F6.8*
9	-	*F5.6*	*F8*
10	-	*F6.8*	*F9.6*
11	-	*F8*	*F11*

12	-	*F9.6*	*F14*
13	-	*F11*	*F16*
14	-	*F14*	*F19*
15	-	*F16*	*F22*
16	-	*F19*	*F28*
17	-	*F22*	*Close*
18	-	*F28*	-
19	-	*Close*	-

Comment

4 Config Set are supported

Group 1 : SCM6201 or SCM6321

Group 2 : SCM5300

Group 3 : etc.

Applied Model

Side Effect

CAM_P10_MAN_SHUTTER

Manual Shutter of Techwin Zoom Module applied camera

Type unsigned char

Values

1/25(1/30) means PAL:1/25, NTSC:1/30

	Group 1*	Group 2*	Group 3*
0	x60	x512	x30
1	x48	x256	x24
2	x40	x128	x20
3	x32	x64	x16
4	x24	x32	x14
5	x20	x24	x12
6	x16	x16	x10
7	x14	x14	x8
8	x12	x12	x6
9	x10	x10	x4
10	x8	x8	x2
11	x6	x6	1/25(1/30)
12	x4	x4	1/50(1/60)

13	x2	x2	1/100
14	1/25(1/30)	1/50(1/60)	1/150
15	1/50	1/100(1/120)	1/200
16	1/60	1/250	1/250
17	1/100	1/500	1/300
18	1/120	1/700	1/400
19	1/150	1/1000	1/500
20	1/180	1/1600	1/600
21	1/200	1/2500	1/700
22	1/240	1/5000	1/1000
23	1/250	1/7000	1/1500
24	1/300	1/10000	1/2500
25	1/360	1/30000	1/5000
26	1/480	1/60000	1/10000
27	1/500	1/120000	1/11000
28	1/600	-	1/16000
29	1/700	-	1/33000
30	1/1000	-	-
31	1/1500	-	-
32	1/2500	-	-
33	1/5000	-	-
34	1/10000	-	-
35	1/11000	-	-
36	1/16000	-	-
37	1/33000	-	-

Comment

4 Config Set are supported

Group 1 : SCM6200 or SCM6321

Group 2 : SCM3XXX

Group 3 : etc.

Applied Model

Side Effect

CAM_P10_SHARPNESS

Sharpness of Techwin Zoom Module applied camera

Type unsigned char

Values

0 ~ 31

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_MAN_GAIN

Manual Gain of Techwin Zoom Module applied camera

Type unsigned char

Values

*Group 1** *0 ~ 36*

*Group 2** *0 ~ 42*

Comment

4 Config Set are supported

Group 1 :SCM6200

Group 2 : etc.

Applied Model

Side Effect

CAM_P10_WDR_LEVEL

WDR Level of Techwin Zoom Module applied camera

Type unsigned char

Values

0 *Low*

1 *Middle*

2 *High*

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_HLC_COLOR

HLC Color of Techwin Zoom Module applied camera

Type unsigned char

Values

0 ~ 15

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_SSDR_MODE

SSDR Mode of Techwin Zoom Module applied camera

Type unsigned char

Values

0 *Off*

1 *On*

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_SSDR_LEVEL

SSDR Level of Techwin Zoom Module applied camera

Type unsigned char

Values

0 ~ 15

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_DNthreshold

Day to Night threshold of Techwin Zoom Module applied camera

Type unsigned char

Values

*Group 1** *0 ~ 255*

*Group 2** *0 ~ 3*

Comment

4 Config Set are supported

Group 1 : P4, P5 Model

Group 2 : etc

Applied Model

Side Effect

CAM_P10_NDthreshold

Night to Day threshold of Techwin Zoom Module applied camera

Type unsigned char

Values

*Group 1**	*0 ~ 255*
*Group 2**	*0 ~ 3*

Comment

4 Config Set are supported

Group 1 : P4, P5 Model

Group 2 : etc

Applied Model

Side Effect

CAM_P10_DefogMode

Defog Mode of Techwin Zoom Module applied camera

Type unsigned char

Values

0	*Off*
1	*Manual*
2	*Auto*

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_DefogLevel

Defog Level of Techwin Zoom Module applied camera

Type unsigned char

Values

1 ~ 10

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_P10_FRZONMOVE

Freeze on Move of Speed Dome Camera

Type unsigned char

Values

0	Off
1	On

Comment

Applied Model

PTZ Model Only

Side Effect

CAM_P10_ZOOMPROPORT

Zoom Proportional Jog of Speed Dome Camera

Type unsigned char

Values

0	Off
1	On

Comment

Applied Model

PTZ Model Only

Side Effect

CAM_P10_AUTOFLIP

Auto Flip of Speed Dome Camera

Type unsigned char

Values

0	Off
1	On

Comment

Applied Model

PTZ Model Only

Side Effect

CAM_P10_MAXJOGSPEED

Max Jog Speed of Speed Dome Camera

Type unsigned char

Values

0	30 degree/sec
1	60 degree/sec
2	90 degree/sec
3	120 degree/sec
4	180 degree/sec
5	270 degree/sec
6	360 degree/sec
7	Unlimited

Comment

Applied Model

PTZ Model Only

Side Effect

CAM_P10_MAXZOOMSPEED

Max Zoom Speed of Speed Dome Camera

Type unsigned char

Values

0 ~ 7	step 1 ~ 8

Comment

Applied Model

Side Effect

CAM_P10_DISPLAYPTZACTION

Display PTZ Action of Speed Dome Camera

Type unsigned char

Values

0	Off

1 Auto

2 On

Comment

Applied Model

Side Effect

CAM_P10_MAXPOSITIONMOVESPEED

Set Max Position Move Speed.

Type unsigned char

Values

1 ~ 255

Comment

Applied Model

PTZ Model Only

Side Effect

CAM_NXP_FLIP_HORIZON

Set Flip Horizontal.

Type unsigned char

Values

0 *Off*

1 *On*

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_FLIP_VERTICAL

Set Flip Vertical.

Type unsigned char

Values

0 *Off*

1 *On*

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_TDN_MODE

Set Day&Night Mode.

Type unsigned char

Values

0	Auto
2	Day
3	Night
4	CDS(IR Only)

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_TDN_IR_CONTROL

Set IR Led Control.

Type unsigned char

Values

0	Auto
1	On
2	Off

Comment

4 Config Set are supported

NXP ISP MODULE and IR only

Applied Model

Side Effect

CAM_NXP_TDN_DAY_TH

Set TDN Night to Day Threshold.

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_TDN_NIGHT_TH

Set TDN Day to Night Threshold.

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_IRIS_MODE

Set IRIS Mode.

Type unsigned char

Values

0	Auto
1	Manual

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_IRIS_VALUE

Set IRIS Active time.

Type unsigned char

Values

1	1
2	2
4	4
8	8
16	16
32	32

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_DSS_VALUE_NIGHT

Set Shutter Range(Night)

Type unsigned char

Values

0 ~ 32

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_DSS_VALUE_DAY

Set Shutter Range(Day)

Type unsigned char

Values

0 ~ 32

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_AE_MODE

Set Auto Exposure Mode.

Type unsigned char

Values

0	Off
1	BLC
2	WDR

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_AE_MAX

Set Auto Exposure Max gain.

Type unsigned char

Values

1 ~ 255

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_GAMMA_INDEX

Set Auto Exposure Max gain.

Type unsigned char

Values

0 ~ 7

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_AE_OPTION

Set Extra Night Gain.

Type unsigned char

Values

0	1.0
1	2.0
2	3.0
3	1.3
4	1.5

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_AE_TARGET

Set Exposure Target.

Type unsigned char

Values

10 ~ 100

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_CDS_DAY_TH

Set CDS Night -> Day Threshold.

Type unsigned char

Values

4 Config Set are supported

3 ~ 30

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_CDS_NIGHT_TH

Set CDS Day -> Night Threshold.

Type unsigned char

Values

3 ~ 30

Comment

4 Config Set are supported

NXP ISP MODULE

Applied Model

Side Effect

CAM_NXP_CURRENT_Y

Read Current Y Value and CDS Value..

Type

Values

Comment

NXP ISP MODULE

Applied Model

Side Effect

String for HTTP API

Read : CAM_NXP_CURRENT_Y=Current Value 0 CDS Value 3

CAM_WONWOO_WBMode

White Balance Mode of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	Auto
1	Manual
2	Indoor
3	Outdoor
4	One Push AWB

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_RGain

Red Gain of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 ~ 20

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_BGain

Blue Gain of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 ~ 20

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_AEMode

Auto Exposure Mode of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	Auto
1	Manual
2	Shutter
3	Iris
4	Bright

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_DSSMode

Auto Digital Shutter Speed Mode of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_DN

Day&Night Mode of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	Day
1	Night
2	Auto

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_FLIP

Flip Mode of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_DZ

Digital Zoom of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_WDR

WDR of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_WDRLevel

WDR Level of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 ~ 4 Level 0 ~ Level 4

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_BLC

BLC of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_Brightness

Brightness of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0, 5 ~ 27

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_Iris

Iris of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0, 5 ~ 17

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_Shutter

Shutter of Wonwoo Zoom Module applied camera

Type unsigned char

Values

1/25(1/30) means PAL:1/25, NTSC:1/30

	Group 1*	Group 2*	Group 3*
0	1/1	1/6(1/8)	1/6(1/7)
1	1/2	1/12(1/15)	1/8(1/10)
2	1/3(1/4)	1/25(1/30)	1/12(1/15)
3	1/6(1/8)	1/50(1/60)	1/25(1/30)
4	1/12(1/15)	1/100(1/120)	1/50(1/60)
5	1/25(1/30)	1/250	1/100(1/120)
6	1/50(1/60)	1/700	1/240
7	1/100(1/120)	1/1000	1/500
8	1/250	1/1600	1/1000
9	1/700	1/2500	1/2000
10	1/1000	1/5000	1/4000
11	1/1600	1/7000	1/8000
12	1/2500	1/10000	1/16000
13	1/5000	1/30000	1/30000
14	1/7000	-	1/60000
15	1/10000	-	-
16	1/30000	-	-

Comment

4 Config Set are supported

Group 1 : MCS128 or MCS308

Group 2 : MM208 or MM308

Group 3 : etc.

Applied Model

Side Effect

CAM_WONWOO_Gain

Gain of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 ~ 10

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_APT_LEVEL

APT Level of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 ~ 10

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_DefogMode

Defog Mode of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_DefogLevel

Defog Level of Wonwoo Zoom Module applied camera

Type unsigned char

Values

Group 1* Group 2*

0	Level-0	Level-0
1	Level-1	Level-1
2	Level-2	Level-2
3	Auto	Level-3
4	-	Level-4
5	-	Level-5
6	-	Level-6
7	-	Level-7
8	-	Level-8
9	-	Level-9
10	-	Level-10

Comment

4 Config Set are supported

Group 1 : MM302 or MCS128 or MCS308 or MM208 or MM308

Group 2 : etc.

Applied Model

Side Effect

CAM_WONWOO_Flk

Flickerless of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_NR

Noise Reduction of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 Level-1

2 Level-2

3 Level-3

4 Auto

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_ACE

ACE of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 Level-1

2 Level-2

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_AGC

AGC of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_ExpComp

Exposure Comp of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_ExpCompLevel

Exposure Comp Level of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 ~ 20

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_DN_Threshold

Day to Night Threshold of Wonwoo Zoom Module applied camera

Type unsigned char

Values

Group 1* 0 ~ 255

Group 2* 10 ~ 28

Comment

4 Config Set are supported

Group1 : P4, P5 Model

Group2 : Except Group1

Applied Model

Side Effect

CAM_WONWOO_ND_Threshold

Night to Day Threshold of Wonwoo Zoom Module applied camera

Type unsigned char

Values

Group 1* 0 ~ 255

Group 2* 10 ~ 28

Comment

4 Config Set are supported

Group1 : P4, P5 Model

Group2 : Except Group1

Applied Model

Side Effect

CAM_WONWOO_DNDELAY

Day&Night Transition Delay of Wonwoo Zoom Module applied camera

Type unsigned char

Values

1, 3, 5, 10, 15 second

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_MaxSSLevel

Max DSS Limit of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	x2
1	x4
2	x8
3	x16
4	x32
5	x64

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_FocusNearLimit

Focus Near Limit of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	10cm
1	1m
2	3m
3	6m
4	10m

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_IRDetection

IR Detection of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

Not Used.

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_IRDetectionLevel

IR Detection Level of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 ~ 4

Comment

Not Used.

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_ImageRangeMode

Image Range Mode of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	Full Mode
1	Comp Mode
2	User Mode

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_ImageRangeCustomLevel

Image Range Custom Level of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 ~ 32

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_AGCGain

AGC Gain of Wonwoo Zoom Module applied camera

Type unsigned char

Values

	Group 1*	Group 2*
0	Off	Off
1	Low	Middle1
2	Middle	Middle2
3	High	High
4	-	Low1
5	-	Low2

Comment

4 Config Set are supported

Group 1 : MCS128 or MCS308

Group 2 : MM208 or MM308

Applied Model

Side Effect

CAM_WONWOO_DISMode

DIS Mode of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On
2	Hold

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_DISRange

DIS Range of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	10%
1	20%
2	30%

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_DISFilter

DIS Filter of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	Low
1	Middle
2	High

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_DISAutoCenter

DIS AutoCenter of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 Half

2 Full

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_HLCMode

HLC Mode of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

2 Night Only

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_HLCLevel

HLC Level of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0 ~ 20

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_WONWOO_HLCClipColor

HLC Clip Color of Wonwoo Zoom Module applied camera

Type unsigned char

Values

0	Black
1	Gray1
2	Gray2
3	Gray3
4	Gray4
5	Gray5
6	Gray6
7	White
8	Red
9	Green
10	Blue
11	Cyan
12	Yellow
13	Magenta

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_NEXT_Lens_Mode

Set Lens Mode.

Type unsigned char

Values

	Group 1*	Group 2*	Group 3*
0	DC	-	-
1	-	-	-
2	Manual	Manual	-
3	-	P-Iris	-

Comment

4 Config Set are supported

Group 1 : Default

Group 2 : P – IRIS

Group 3 : 3x Zoom, Smart IR

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_DC_Lens_Mode

Set DC Lens Mode.

Type unsigned char

Values

0 Indoor

1 Outdoor

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_Shutter

Set Shutter.

Type unsigned char

Values

Dependent on “BackLight Mode”

	WDR	Else(Off, BLC, HSBLC)
0	Auto	Auto
1	1/60	1/60
2	Flickerless	Flickerless
3	1/240	1/240
4	1/480	1/480
5	1/1000	1/1000
6	1/2000	1/2000
7	1/5000	1/5000
8	1/10000	1/10000
9	1/50000	1/15000
10	-	x2

11	-	x4
12	-	x6
13	-	x8
14	-	x10
15	-	x15
16	-	x20
17	-	x25
18	-	x30

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_AGC

Set AGC.

Type unsigned char

Values

0	AGC Off
1	17 Limit
2	34 Limit
3	51 Limit
4	68 Limit
5	85Limit
6	102 Limit
7	119 Limit
8	136 Limit
9	153 Limit
10	170 Limit
11	187 Limit
12	204 Limit
13	221 Limit
14	238 Limit
15	255 Limit

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_SensUp_Mode

Set SensUp Mode.

Type unsigned char

Values

0	Off
1	Auto

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_SensUp_Limit

Set SensUp Limit.

Type unsigned char

Values

0	x2
1	x4
2	x6
3	x8
4	x10
5	x15
6	x20
7	x25
8	x30

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_Brightness

Set Brightness.

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_Defog_Mode

Set Defog Mode.

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_Defog_Gradation

Set Defog Gradation.

Type unsigned char

Values

0	Off
1	Low
2	Middle
3	High

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_BackLight_Mode

Set BackLight Mode.

Type unsigned char

Values

0	Off
1	WDR
2	BLC
3	HSBLC

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_WDR_Gain

Set WDR Gain.

Type unsigned char

Values

0	Low
1	Middle
2	High

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_WDR_Priority

Set WDR Priority.

Type unsigned char

Values

0 ~ 15

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_BLC_Gain

Set BLC Gain.

Type unsigned char

Values

0 Low

1 Middle

2 Hight

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_HSBLC_Mode

Set HSBLC Mode.

Type unsigned char

Values

0 All Day

1 Night Only

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_HSBLC_Level

Set HSBLC Level.

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_HSBLC_Black_Mask

Set HSBLC Black Mask.

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_WB_Mode

Set White Balance Mode.

Type unsigned char

Values

0 ATW

1 AWC

2 Indoor

3 Outdoor

4 Manual

5 AWB

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_WB_RGain

CAM_NEXT_WB_BGain

Set WB Red / Blue Gain

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_DN_Mode

Set Day&Night Mode.

Type unsigned char

Values

0	Auto
1	Day
2	Night
3	External Sensor

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_DN_Delay

Set Day&Night Delay.

Type unsigned char

Values

0 ~ 60

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_AGC_DN
CAM_NEXT_AGC_ND

DN : Set Auto AGC Day&Night Start Level

ND : Set Auto AGC Day&Night End Level

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_CDS_DN
CAM_NEXT_CDS_ND

DN : Set Auto CDS Day&Night Start Level

ND : Set Auto CDS Day&Night End Level

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_2DNR_Mode
CAM_NEXT_3DNR_Mode

Set 2D/3D Noise Reduction Mode.

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_3DNR_Level

Set 3D Noise Reduction Level.

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_SmartNR_Mode

Set Smart Noise Reduction Level.

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_SmartNR_Sensitivity

Set Smart Noise Reduction Sensitivity.

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_Mirror_Mode

Set Mirror Mode.

Type unsigned char

Values

0 Off

1 Horizontal

2 Vertical

3 Rotate

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_Dis_Mode

Set Digital Image Stabilizer Mode.

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_StaticDPC_Mode

Set Static DPC Mode.

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_LiveDPC_Mode

Set Live DPC Mode.

Type unsigned char

Values

0 Off

1 On

2 Auto

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_Sharpness

Set Sharpness.

Type unsigned char

Values

0 ~ 15

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_LSC_Mode

Set LSC Mode

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_DC_Iris_Max

Set Max DC Iris.

Type unsigned short

Values

0 ~ 4000

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_PIrisMode

Set P-IRIS Mode.

Type unsigned char

Values

0 Manual

1 Auto

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_PIrisPosition

Set P-IRIS Position.

Type unsigned char

Values

0 ~ 185

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_PIrisLimit

Set P-IRIS Limit.

Type unsigned char

Values

0 ~ 185

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_AFAccumMode

Set AF Accumulation Mode

Type unsigned char

Values

0	Sum of Center Area
1	Sum of Total Area

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_AFMode

Set Auto Focus Mode

Type unsigned char

Values

0	Semi Auto
1	Full Auto

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_SmartIREnable

Enable Smart IR.

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_SmartIRLevel

Set Smart IR Level.

Type unsigned char

Values

0 ~ 15

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_SmartIRPWMLevel

Set Smart IR PWM Level.

Type unsigned char

Values

Dependent on SYS_POWER_DETECTION

0 or 1 : 0 ~ 100

Else : 0 ~ 50

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_Gamma

Set Gamma.

Type unsigned char

Values

0	Auto
1	RGB Gamma
2	RGB Gamma + Y Gamma
3	0.45 Gamma
4	0.50 Gamma
5	0.55 Gamma
6	0.60 Gamma
7	0.65 Gamma
8	0.70 Gamma
9	0.75 Gamma
10	0.80 Gamma
11	0.85 Gamma
12	0.90 Gamma
13	0.95 Gamma
14	1.00 Gamma

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_NEXT_GainMG
CAM_NEXT_GainR
CAM_NEXT_GainYE
CAM_NEXT_GainG
CAM_NEXT_GainCY
CAM_NEXT_GainB
CAM_NEXT_GainY

Set Gain MG/R/YE/G/CY/B/Y.

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

CAM_SONYIS_Lens_Mode

Set Lens Mode.

Type unsigned char

Values

0	Manual
1	DC - IRIS

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_DC_Lens_Mode

Set Lens Mode.

Type unsigned char

Values

0	Auto
1	Open
2	Close
3	Hold

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_OpenVoltage
CAM_SONYIS_CloseVoltage

Set Open/Close Voltage

Type unsigned char

Values

0.0 ~ 5.0	Voltage
(step 0.1)	

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_Shutter

Set Shutter

Type unsigned char

Values

0	Auto
1	1/30
2	1/60
3	1/100
4	1/250
5	1/500
6	1/1000
7	1/2000
8	1/2500
9	1/5000
10	1/10000

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_AGC_Limit

Set AGC Limit

Type unsigned char

Values

0	1
1	2
2	3
3	4
4	5

5	6
6	7
7	8
8	9
9	10

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_SensUp_Mode

Set SensUp Mode.

Type unsigned char

Values

0	Off
1	Auto

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_SensUp_Limit

Set SensUp Limit.

Type unsigned char

Values

0	x2
1	x3
2	x4
3	x5
4	x6

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_Flickerless

Set Flickerless.

Type unsigned char

Values

0	Off
1	Auto
2	50Hz Fixed
3	60Hz Fixed

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_AE_Hold

Set Auto Exposure Hold.

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_WDR

Set WRD.

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_WB_Mode

Set White Balance Mode.

Type unsigned char

Values

0 ATW

1 AWB Hold

2 Temperature Track

3 Full Open

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_ATW_Mode

Set Auto White Balance Mode.

Type unsigned char

Values

0 Indoor

1 Outdoor

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_AWB_ROffset
CAM_SONYIS_AWB_BOffset

Set Auto White Balance Red/Blue Offset.

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_ColorTemperature

Set Color temperature.

Type unsigned char

Values

0 ~ 63

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_DN_Mode

Set Day&Night Mode.

Type unsigned char

Values

Dependent on CAM_SONYIS_IR_EXIST(1 or Else)

	1	Else
0	Auto+CDS	Auto
1	Day	Day
2	Night	Night
3	CDS	-

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_DN_AGC_DN
CAM_SONYIS_DN_AGC_ND

Set Day to Night Threshold(AGC).

Set Night to Day Threshold(AGC).

Type unsigned char

Values

0 ~ 40

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_DN_CDS_DN
CAM_SONYIS_DN_CDS_ND

Set Day to Night Threshold(CDS).

Set Night to Day Threshold(CDS).

Type unsigned char

Values

0~30

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_DN_Delay

Set Day&Night Transition delay.

Type unsigned char

Values

0 ~ 15

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_Mirror_Mode

Set Mirror Mode.

Type unsigned char

Values

0	Off
1	Horizontal
2	Vertical
3	Rotate

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_Negative_Mode

Set Negative Mode.

Type unsigned char

Values

0	Positive
1	Negative

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_Gamma

Set Gamma.

Type unsigned char

Values

0	Offset #1
1	Offset #2
2	Offset #3
3	Offset #4
4	Offset #5
5	Offset #6
6	Offset #7
7	Offset #8

8 Offset #9

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_Sharpness

Set Sharpness.

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_SONYIS_CbGain
CAM_SONYIS_CrGain

Set Cb/Cr Gain.

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

CAM_PS_DN_Mode

Day&Night Mode of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Day

1 Night

2 Auto

3 External Sensor

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_DN_Level

Day&Night Level of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Low

1 Middle

2 High

3 Adjust

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_DN_Adjust_DN

CAM_PS_DN_Adjust_ND

Day to Night Threshold of Panasonic Zoom Module applied camera

Night to Day Threshold of Panasonic Zoom Module applied camera

Type unsigned char

Values

Group 1* 0 ~ 255

Group 2* 0 ~ 6

Comment

4 Config Set are supported

Group 1 : P4, P5 Model

Group 2 : P3 Model

Applied Model

Side Effect

CAM_PS_DN_Time

Day & Night Transition Time of Panasonic Zoom Module applied camera

Type unsigned char

Values

5 ~ 20

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_BLC

BLC of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_FLIP

FLIP of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_IS_Mode

Image Stabilizer Mode of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_IS_Level

Image Stabilizer Level of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Low

1 Middle

2 High

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_DNR_Mode

Noise Reduction Mode of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_DNR_Level

Noise Reduction Level of Panasonic Zoom Module applied camera

Type unsigned char

Values

Group 1* 0 ~ 6

Group 2* 0 ~ 5

Comment

4 Config Set are supported

Group 1 : MH322X

Group 2 : etc.

Applied Model

Side Effect

CAM_PS_DFG

Defog Mode of Panasonic Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_WB_Mode

White Balance Mode of Panasonic Zoom Module applied camera

Type unsigned char

Values

0	Auto
1	AWC
2	Manual
3	3200K fixed(Indoor)
4	5600K fixed(Outdoor)
5	4200K fixed(FLUO)

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_ATW_Smart

ATW(Auto White Balance) Smart of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Off

1 Smart1

2 Smart2

3 Smart3

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_WB_RED

CAM_PS_WB_BLUE

WB Red/Blue of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_IRIS_Mode

IRIS Mode of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Auto Iris(Priority Indoor Mode)

1 Manual Iris(EI Off)

2 Manual Iris(EI On)

3 Auto Iris(Priority Outdoor Mode)

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_IRIS_Manual

Manual Iris of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_SHUTTER_Mode

Shutter of Panasonic Zoom Module applied camera

Type unsigned char

Values

	Group 1*	Group 2*
0	x128	x128
1	x64	x64
2	x32	x32
3	x16	x16
4	x10	x10
5	x6	x6
6	x4	x4
7	x2	x2
8	x1	x1
9	Auto	Auto
10	1/50	1/60
11	1/100	1/120
12	1/250	1/250
13	1/500	1/500
14	1/1000	1/1000
15	1/2000	1/2000
16	1/4000	1/4000
17	1/10000	1/10000
18	1/16000	1/16000

Comment

4 Config Set are supported

Group 1 : PAL

Group 2 : NTSC

Applied Model

Side Effect

CAM_PS_SENSUP

SENSUP of Panasonic Zoom Module applied camera

Type unsigned char

Values

0	Off
1	x2
2	x4
3	x6
4	x10
5	x16
6	x32
7	x64
8	x128

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_GAIN_Color_Max

CAM_PS_GAIN_BW_Max

CAM_PS_GAIN_Auto_Max

ACG Max Gain(Color Mode) of Panasonic Zoom Module applied camera

ACG Max Gain(B/W Mode) of Panasonic Zoom Module applied camera

ACG Max Gain(Auto Mode) of Panasonic Zoom Module applied camera

Type unsigned char

Values

0	Off
1	30dB
2	36dB
3	42dB

4	24dB
5	27dB
6	33dB
7	39dB
8	21dB
9	18dB
10	15dB

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_GAIN_Color

CAM_PS_GAIN_BW

ACG Gain(Color Mode) of Panasonic Zoom Module applied camera

ACG Gain(B/W Mode) of Panasonic Zoom Module applied camera

Type unsigned char

Values

0	0dB
1	3dB
2	6dB
3	9dB
4	12dB
5	15dB
6	18dB
7	21dB
8	24dB
9	27dB
10	30dB
11	33dB
12	36dB
13	39dB
14	42dB

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_DZ_Limit

Digital Zoom Limit of Panasonic Zoom Module applied camera

Type unsigned char

Values

0	x1
1	x2
2	x4
3	x8
4	x16
5	x20

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_SD

WDR of Panasonic Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_Vivid

Vivid color effect of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_AFSensitivity

Auto Focus Sensitivity of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 ~ 15

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_Gamma

Gamma of Panasonic Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On
2	Smart1
3	Smart2
4	Smart3
5	Smart4

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_ApertureMode

Aperture Mode of Panasonic Zoom Module applied camera

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_ApertureVDirect
CAM_PS_ApertureHDirect

Aperture Vertical/Horizontal Direct of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 ~ 63

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_HighlightCompensation

Highlight Compensation of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_FocusArea

Focus Area of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Whole Screen

1 Between 1 and 3

2 Screen center only

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_ATWRed
CAM_PS_ATWBlue

ATW Red/Blue of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_AFNearLimit

Auto Focus near Limit of Panasonic Zoom Module applied camera

Type unsigned char

Values

0	10cm
1	30cm
2	50cm
3	1.5m
4	3m
5	5m

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_Pedestal

Pedestal of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_AFLuminousResponse

Auto Focus Luminous response of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 ~ 63

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_SNPriorityMode

S/N Priority Mode of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_PS_ChromaSuppression

Chroma Suppression of Panasonic Zoom Module applied camera

Type unsigned char

Values

0 Off

1 Low

2 Middle

3 High

Comment

4 Config Set are supported

Applied Model

MH322X only

Side Effect

CAM_AMBA_FLIP_HORIZON

CAM_AMBA_FLIP_VERTICAL

Set Flip horizontal/vertical.

Type unsigned char

Values

0 Off

1 On

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_AWB_MODE

Set AWB Mode.

Type unsigned char

Values

0 Auto

1 Outdoor

2 Incandescent

3 Flourescent

4 Sunny

5 Cloudy

6 Custom

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_AWB_RGAIN

CAM_AMBA_AWB_GGAIN

CAM_AMBA_AWB_BGAIN

Set Auto White Balance Red/Green/Blue Gain.

Type unsigned char

Values

0 ~ 200

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_SHARP_LEVEL

Set Sharpness level.

Type unsigned char

Values

0 ~ 10

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_WDR_MODE

Set WDR Mode.

Type unsigned char

Values

1 On

3 Off

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_WDR_LEVEL

Set WDR Level

Type unsigned char

Values

0 ~ 10

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_TDN_MODE

Set TDN Mode.

Type unsigned char

Values

	Group 1*	Group 2*
0	Auto	Auto
1	-	-
2	Day	Day
3	Night	Night
4	CDS	-

Comment

4 Config Set are supported

Group 1 : IR Model

Group 2 : etc.

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_TDN_IR_CONTROL

Set IR Control Mode

Type unsigned char

Values

0	Auto
1	On
2	Off

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

IR Model only.

Side Effect

CAM_AMBA_TDN_DAY_TH
CAM_AMBA_TDN_NIGHT_TH

Set Day/Night transition threshold.

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_DSS_VALUE_NIGHT

Set DSS Value at Night.

Type unsigned char

Values

1	1/1
2	1/2
3	1/3
5	1/5
6	1/6
10	1/10
15	1/15
25	1/25
30	1/30
50	1/50
60	1/60
100	1/100
120	1/120
125	1/125
150	1/150
180	1/180
200	1/200
240	1/240

250	1/250
300	1/300
400	1/400
420	1/420
450	1/450
480	1/480
500	1/500
600	1/600
700	1/700
800	1/800
900	1/900
1000	1/1000

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_DSS_MODE

Set DSS Mode

Type unsigned char

Values

0	Auto
1	On
2	Off

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_AE_TARGET

Set Auto exposure target.

Type unsigned char

Values

13 ~ 200

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_CDS_DAY_TH
CAM_AMBA_CDS_NIGHT_TH

Set Day/Night transition Threshold(CDS)

Type unsigned char

Values

3 ~ 30

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

IR Model only.

Side Effect

CAM_AMBA_CURRENT_Y

Get current Y value.

Type unsigned char

Values

Comment

Read only

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_BRIGHTNESS
CAM_AMBA_CONTRAST
CAM_AMBA_SATURATION

Set Brightness/Contrast/Saturation

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_NF_LEVEL

Set Noise Filter Level.

Type unsigned char

Values

0 ~ 10

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_NF_3D_MODE

Set Noise Filter 3D Mode

Type unsigned char

Values

0 Smart 3D

1 Manual

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_NF_3D_LEVEL

Set Noise Filter 3D Level.

Type unsigned char

Values

0 ~ 10

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_AMBA_SP_AUTOCONTRAST

Set Auto Contrast.

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

AMBA ISP.

Side Effect

CAM_POWERUPACTION

PowerUp Action of Speed Dome Camera

Type unsigned char

Values

0	Off
1	Last Action
2	Preset #1

Comment

Applied Model

Side Effect

CAM_SCHSUN ~ CAM_SCHSAT

Camera Image Setting(Config Set#1~#4) enable schedule by day of the week and time.

Type 32 bytes, array type

Values

From Array[0] to Array[23]are valid. Only 24 digits are used in HTTP API

Array[0] represents 0:00:00 ~ 0:59:59, Array[1] represents 1:00:00 ~ 1:59:59

0	*Config Set#1*
1	*Config Set #2*
2	*Config Set #3*

3 *Config Set #4*

Comment

Side Effect

String for HTTP API

Read/Write : CAM_SCHESUN=00112222222333333333330000

CAM_NTSC_PAL

Set Input Frequency

Type unsigned int

Values

0 *60Hz(NTSC)*

1 *50Hz(Pal)*

Comment

Side Effect

CAM_AFAFTERZOOM

Set Auto Focus after Zoom control

Type unsigned char

Values

0 *Off*

1 *On*

Comment

Applied Model

Zoom or PTZ Model.

Side Effect

CAM_OneShotAFafterPTZ

Set One Shot Auto Focus After PTZ

Type unsigned char

Values

0 *Off*

1 *On*

Comment

Applied Model

Except Wonwoo Module.

Side Effect

CAM_AFSensitivity

Set Auto Focus Sensitivity.

Type unsigned char

Values

0	*Auto*
1	*Strong*
2	*Weak*

Comment

Applied Model

Zoom(and NXP ISP) Model only

Side Effect

CAM_AFArea

Set Auto Focus Area

Type unsigned char

Values

0	*Full*
1	*Center*

Comment

Applied Model

Zoom(and NXP ISP) Model only

Side Effect

CAM_AFAutoInitMode

Set Auto Focus Init Mode.

Type unsigned char

Values

0	*Off*
1	*Everyday*
2	*Every Sunday*

Comment

Applied Model

Zoom(and NXP ISP) Model only

Side Effect

CAM_AFAutoInitHour

Set Auto Focus Init Hour.

Type unsigned char

Values

0	*AM 0:00*
1	*AM 1:00*
2	*AM 2:00*
3	*AM 3:00*
4	*AM 4:00*
5	*AM 5:00*
6	*AM 6:00*
7	*AM 7:00*
8	*AM 8:00*
9	*AM 9:00*
10	*AM 10:00*
11	*AM 11:00*
12	*PM 12:00*
13	*PM 1:00*
14	*PM 2:00*
15	*PM 3:00*
16	*PM 4:00*
17	*PM 5:00*
18	*PM 6:00*
19	*PM 7:00*
20	*PM 8:00*
21	*PM 9:00*
22	*PM 10:00*
23	*PM 11:00*

Comment

Applied Model

Zoom(and NXP ISP) Model only

Side Effect

CAM_DISPLAYZOOMMAG

Display Zoom Magnification

Type unsigned char

Values

0	*Off*
1	*On*

Comment

Applied Model

PTZ Model only

Side Effect

CAM_SET_IRLED_MODE

Display Zoom Magnification

Type unsigned char

Values

	*Group 1**	*Group 2**
0	*Auto-Eco*	*Auto*
1	*Auto-Normal*	*Manual*
2	*Auto-Strong*	
3	*Manual*	

Comment

Group 1 : P4, P5

Group 2 : P3

Applied Model

IR Model only

Side Effect

CAM_SET_NEARLED
CAM_SET_FARLED

Display Zoom Magnification

Type unsigned char

Values

0	*Off*
1	*On*

Comment

All Off : CAM_SET_NEARLED(0), CAM_SET_FARLED(0)

Near LED On : CAM_SET_NEARLED(1), CAM_SET_FARLED(0)

Far LED On : CAM_SET_NEARLED(0), CAM_SET_FARLED(1)

All On : Do not use.

Applied Model

IR Model only

Side Effect

CAM_SET_SPECIALMODEOFCONFIG4

Enable config set#4 when day&night mode is auto and status is B/W.

Type unsigned char

Values

0 *Off*

1 *On*

Comment

Applied Model

Side Effect

CAM_EXTPTZDISABLE

Prevent Auto PTZ.

Type unsigned char

Values

0 *Off(Allow)*

1 *On(Prevent)*

Comment

Applied Model

PTZ Model only

Side Effect

CAM_CODEC_SATURATION

Set Saturation

Type unsigned char

Values

1 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_CODEC_CONTRAST

Set Contrast

Type unsigned char

Values

1 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_CODEC_BRIGHTNESS

Set Brightness

Type unsigned char

Values

1 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_CODEC_NF_MODE

Set Noise Filter Mode

Type unsigned char

Values

0	*Off*
1	*Normal 2D*
2	*Normal 3D #1*
3	*Normal 3D #2*
4	*Strong*
5	*Blend*

Comment

4 Config Set are supported

Max encoding performance is restricted in 'Strong' or 'Blend' Mode.

Please use the mode only when Performance usage rate is 80% or less.

Applied Model

Side Effect

CAM_CODEC_NFPARAM1

Set “Normal 2D/3D” Strength.

Type unsigned char

Values

0 ~ 200

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_CODEC_NFPARAM2

Set “Strong/Blend” Strength.

Type unsigned char

Values

0 ~ 30

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_CODEC_NFPARAM3

Set Adaptive Mode.

Type unsigned char

Values

0 *Off*

1 *On*

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_CODEC_NFPARAM4

Set Adaptive Strong Strength.

Type unsigned char

Values

0 ~ 2

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_CODEC_EDGE_MODE

Set Edge Enhancement Mode.

Type unsigned char

Values

0	*Off*
1	*On*

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_CODEC_EDGEPARAM1

Set Edge Enhancement Sensitivity.

Type unsigned char

Values

0 ~ 7

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_CODEC_EDGEPARAM2

Set Edge Enhancement Strength.

Type unsigned char

Values

0 ~ 31

Comment

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_FLIP_HORIZON

Set Flip Horizontal

Type unsigned char

Values

0	Off
1	On

Comment

Default: 0

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_FLIP_VERTICAL

Set Flip Vertical

Type unsigned char

Values

0	Off
1	On

Comment

Default: 0

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_TDN_MODE

Set Day&Night Mode.

Type unsigned char

Values

	*Group1**	*Group2**
0	Auto	Auto
2	Day	Day
3	Night	Night
4	CDS	-
5	External Sensor	External Sensor

Comment

Default: 0

4 Config Set are supported

Group 1 : CAM_TDN_IS_IR_LED != 0

Group 2 : CAM_TDN_IS_IR_LED == 0

Applied Model

Side Effect

CAM_HI_TDN_IR_CONTROL

Set IR Control mode.

Type unsigned char

Values

0	Auto
1	On
2	Off

Comment

Default: 0

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_TDN_DAY_TH

Set TDN Night to Day Threshold.

Type unsigned char

Values

0 ~ 100

Comment

Default: 30

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_TDN_NIGHT_TH

Set TDN Day to Night Threshold.

Type unsigned char

Values

0 ~ 100

Comment

Default: 8

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_IRIS_MODE

Set IRIS mode.

Type unsigned char

Values

0	Auto
1	Manual

Comment

Default: 1

4 Config Set are supported

Valid when CAM_HI_IRIS_TYPE != 0.

Applied Model

Side Effect

CAM_HI_IRIS_VALUE

Set IRIS active time.

Type unsigned char

Values

1	1
2	2
4	*4*
8	*8*
16	*16*
32	*32*

Comment

Default: 1

4 Config Set are supported

Valid when CAM_HI_IRIS_MODE == 0 and CAM_HI_IRIS_TYPE == 1

Applied Model

Side Effect

CAM_HI_DSS_MODE_NIGHT

Set slow shutter mode.

Type unsigned char

Values

0	*Auto*
1	*On*
2	*Off*

Comment

Default: 1

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_AE_MODE

Set Auto Exposure mode.

Type unsigned char

Values

0	*Off*
1	*BLC*
2	*WDR*

Comment

Default: 0

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_AE_TARGET

Set exposure target.

Type unsigned char

Values

1 ~ 10

Comment

Default: 1

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_GAMMA_INDEX

Set Auto Exposure Max gain.

Type unsigned char

Values

0	*0*
1	*1*
2	*2*

Comment

Default: 0

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_CDS_DAY_TH

Set CDS Night -> Day Threshold.

Type unsigned char

Values

3 ~ 30

Comment

Default: 11

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_CDS_NIGHT_TH

Set CDS Day -> Night Threshold.

Type unsigned char

Values

3 ~ 30

Comment

Default: 5

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_DEFOG_MODE

Set defog mode.

Type unsigned char

Values

0	*Off*
1	*On*

Comment

Default: 0

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_CURRENT_Y

Read Current Y Value and CDS Value.

Type

Values

Comment

HI ISP MODULE

Applied Model

Side Effect

String for HTTPAPI

Read : CAM_HI_CURRENT_Y=Current Value 0 CDS Value 3

CAM_HI_AWB_MODE

Set Auto White Balance mode.

Type unsigned char

Values

0	*Normal*
10	*Underwater*

Comment

Default: 0

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_TDN_FILTER

Set IR Cut Filter.

Type unsigned char

Values

0	Auto (According to ISP's Day/Night state)
1	On (Day)
2	Off (Night)

Comment

Default: 0

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_DSS_VALUE_DAY
CAM_HI_DSS_VALUE_NIGHT

Set the range of shutter time with two parameters. CAM_HI_DSS_VALUE_DAY is max, CAM_HI_DSS_VALUE_NIGHT is min.

Type unsigned int

Values

1 ~ 10000	1 sec ~ 1/10000 sec

Comment

Default: CAM_HI_DSS_VALUE_DAY(10000),
CAM_HI_DSS_VALUE_NIGHT(15)

CAM_HI_DSS_VALUE_DAY value should be equal or larger than CAM_HI_DSS_VALUE_NIGHT value

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_AE_MAX

Set sensor's analog gain.

Type unsigned char

Values

1 ~ 30

Comment

Default: 30

4 Config Set are supported

Applied Model

Side Effect

CAM_HI_AE_DMAX

Set ISP's digital gain

Type unsigned char

Values

1 ~ 30

Comment

Default: 2

4 Config Set are supported

Applied Model

Side Effect

2.13 ETC parameters

ETC_USEROSDENABLE1
ETC_USEROSDENABLE2
ETC_USEROSDENABLE3
ETC_USEROSDENABLE4

Enable or disable user OSD

Type unsigned char

Values

0	Disable
1	Enable

Comment

Side Effect

ETC_USEROSDSTRING1
ETC_USEROSDSTRING2
ETC_USEROSDSTRING3
ETC_USEROSDSTRING4

User OSD string.

Type 64bytes array

Values

Null terminated String, Max 20 characters including Korean.

Comment

Side Effect

ETC_USEROSDX1
ETC_USEROSDX2
ETC_USEROSDX3
ETC_USEROSDX4
ETC_USEROSDY1
ETC_USEROSDY2
ETC_USEROSDY3
ETC_USEROSDY4

X-coordinate/Y-coordinate of user OSD

Type unsigned short

Values

0 ~ 1000 coordinate

Comment

Side Effect

ETC_USEROSDFONTSIZE1
ETC_USEROSDFONTSIZE2
ETC_USEROSDFONTSIZE3
ETC_USEROSDFONTSIZE4

Font size of user OSD

Type unsigned char

Values

12 ~ 48 font size

Comment

Side Effect

ETC_USEROSDCOLOR1
ETC_USEROSDCOLOR2
ETC_USEROSDCOLOR3
ETC_USEROSDCOLOR4

Color of user OSD

Type unsigned char

Values

0	White
1	Gray1
2	Gray2
3	Gray3
4	Black
5	Red
6	Green
7	Blue
8	Yellow
9	Orange

Comment

Side Effect

ETC_EVENTOSDDISPLAYNAME0
ETC_EVENTOSDDISPLAYNAME1
ETC_EVENTOSDDISPLAYNAME2
ETC_EVENTOSDDISPLAYNAME3

Enable to display event name.

Type unsigned char

Values

0	Disable
1	Enable

Comment

Side Effect

ETC_EVENTOSDSTRING0
ETC_EVENTOSDSTRING1
ETC_EVENTOSDSTRING2
ETC_EVENTOSDSTRING3

Set Event OSD string.

Type 64bytes array

Values

Null terminated String, Max 20 characters including Korean.

Comment

Side Effect

ETC_EVENTOSDX0
ETC_EVENTOSDX1
ETC_EVENTOSDX2
ETC_EVENTOSDX3
ETC_EVENTOSDY0
ETC_EVENTOSDY1
ETC_EVENTOSDY2
ETC_EVENTOSDY3

X-coordinate/Y-coordinate of user OSD.

Type unsigned short

Values

0 ~ 1000 coordinate

Comment

Side Effect

ETC_EVENTOSDFONTSIZE0
ETC_EVENTOSDFONTSIZE1
ETC_EVENTOSDFONTSIZE2
ETC_EVENTOSDFONTSIZE3

Font Size of Event OSD.

Type unsigned char

Values

12 ~ 48 font size

Comment

Side Effect

ETC_EVENTOSDCOLOR0
ETC_EVENTOSDCOLOR1
ETC_EVENTOSDCOLOR2
ETC_EVENTOSDCOLOR3

Color of Event OSD

Type unsigned char

Values

0	White
1	Gray1
2	Gray2
3	Gray3
4	Black
5	Red
6	Green
7	Blue
8	Yellow
9	Orange

Comment

Side Effect

ETC_EVENTOSDEFFECT0
ETC_EVENTOSDEFFECT1
ETC_EVENTOSDEFFECT2
ETC_EVENTOSDEFFECT3

Effect of Event OSD

Type unsigned char

Values

0	No Effect
1	Slow Blink
2	Fast Blink

Comment

Side Effect

ETC_EVENTHTTPENABLE0
ETC_EVENTHTTPENABLE1
ETC_EVENTHTTPENABLE2
ETC_EVENTHTTPENABLE3

Enable HTTP Action

Type unsigned char

Values

0	Off
1	On

Comment

Side Effect

ETC_EVENTHTTPSTRING0
ETC_EVENTHTTPSTRING1
ETC_EVENTHTTPSTRING2
ETC_EVENTHTTPSTRING3

Set HTTP Action string

Type 256bytes array

Values

Null terminated String, Max 255 characters

Comment

Side Effect

ETC_AUTOPARKINGSCHESUN ~ ETC_AUTOPARKINGSCHESAT

AutoParking enable schedule by day of the week and time.

Type 32 bytes, array type

Values

From Array[0] to Array[23]are valid. Only 24 digits are used in HTTP API

Array[0] represents 0:00:00 ~ 0:59:59, Array[1] represents 1:00:00 ~ 1:59:59

0	*Parking Action#1*
1	*Parking Action#2*
2	*Parking Action#3*
3	*Parking Action#4*

Comment

Side Effect

String for HTTP API

Read/Write : ETC_AUTOPARKINGSCHESUN=012300000000000000000000

ETC_MOTIONSCHESUN ~ ETC_MOTIONSCHESAT

Motion enable schedule by day of the week and time.

Type 32 bytes, array type

Values

From Array[0] to Array[23]are valid. Only 24 digits are used in HTTP API

Array[0] represents 0:00:00 ~ 0:59:59, Array[1] represents 1:00:00 ~ 1:59:59

0	*Disable*
1	*Enable*

Comment

Side Effect

String for HTTP API

Read/Write : ETC_MOTIONSCHESUN=111111100000000111111111

ETC_AutoPursuit_Sensitivity

Set AutoPursuit Sensitivity.

Type unsigned char

Values

0	*High*
1	*Middle*
2	*Low*

Comment

Side Effect

ETC_AutoPursuit_Height

Set AutoPursuit Height.

Type unsigned char

Values

0	*2.5m*
1	*2.75m*
2	*3.0m*
3	*3.25m*
4	*3.5m*

5	*3.75m*
6	*4.0m*
7	*4.25m*
8	*4.5m*
9	*4.75m*
10	*5.0m*
11	*5.5m*
12	*6.0m*
13	*6.5m*
14	*7.0m*
15	*7.5m*
16	*8.0m*
17	*8.5m*
18	*9.0m*
19	*9.5m*
20	*10.0m*
21	*12.0m*
22	*14.0m*
23	*16.0m*
24	*18.0m*
25	*20.0m*
26	*22.0m*
27	*24.0m*
28	*26.0m*
29	*28.0m*
30	*30.0m*

Comment

Side Effect

ETC_AutoPursuit_Zoom

Enable Zoom Effective Mode.

Type unsigned char

Values

0	*Off*
1	*On*

Comment

Side Effect

ETC_AutoPursuit_Size

Set Object Size.

Type unsigned char

Values

0	*Small (1/4 on the screen)*
1	*Middle (1/2 on the screen)*
2	*Large (3/4 on the screen)*

Comment

Side Effect

ETC_AutoPursuit_ResetTime

Set AutoPursuit Reset time.

Type unsigned char

Values

0	*3s After Starting*
1	*5s After Starting*
2	*10s After Starting*
3	*30s After Starting*
4	*10s After Stopping*
5	*20s After Stopping*
6	*30s After Stopping*
7	*40s After Stopping*
8	*50s After Stopping*
9	*1min After Stopping*
10	*2min After Stopping*
11	*3min After Stopping*
12	*5min After Stopping*
13	*10min After Stopping*
14	*No Limitation*

Comment

Side Effect

ETC_AutoPursuit_ResetPosition

Reset Position

Type unsigned short

Values

0	*Previous Preset*
1~500	*Preset Number*

(Except 131~134, 141~148, 151~158, 161~162, 167, 174~175, 177~179)

Comment

Side Effect

ETC_AutoPursuit_Display

Display Tacking Box

Type unsigned char

Values

0	*Off*
1	*On*

Comment

Side Effect

ETC_AutoPursuit_Enable

Enable Auto Tracking

Type unsigned char

Values

0	*Off*
1	*On*

Comment

Side Effect

ETC_AutoPursuit_Zoomlimit

Zoom Limit

Type unsigned char

Values

0	*No Limit*
1	*x2*
2	*x3*
3	*x5*

4 *x10*

5 *x20*

Comment

Side Effect

ETC_MPEGTS_DestinationIP_Ch0
ETC_MPEGTS_DestinationIP_Ch1
ETC_MPEGTS_DestinationIP_Ch2
ETC_MPEGTS_DestinationIP_Ch3

MPEGTS Destination IP(Primary, Secondary#1, #2, #3)

Type 64bytes array

Values

Null terminated String, Max 60 characters.

Comment

Side Effect

ETC_MPEGTS_DestinationPORT_Ch0
ETC_MPEGTS_DestinationPORT_Ch1
ETC_MPEGTS_DestinationPORT_Ch2
ETC_MPEGTS_DestinationPORT_Ch3

MPEGTS Destination Port(Primary, Secondary#1, #2, #3)

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

ETC_MPEGTS_ENABLE_Ch0
ETC_MPEGTS_ENABLE_Ch1
ETC_MPEGTS_ENABLE_Ch2
ETC_MPEGTS_ENABLE_Ch3

Enable MPEGTS(Primary, Secondary#1, #2, #3)

Type unsigned char

Values

0 *Disable*

1 *Enable*

Comment

Side Effect

ETC_SWLISTENABLE0 ~ ETC_SWLISTENABLE3

Enable Smooth Switching List.

Type unsigned char

Values

0	*Disable*
1	*Enable*

Comment

ETC_SWLISTENABLE0 : Remote #1

ETC_SWLISTENABLE1 : Remote #2

ETC_SWLISTENABLE2 : Remote #3

ETC_SWLISTENABLE3 : Remote #4

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWLIST00 ~ ETC_SWLIST99

Set each Smooth Switching list URL.

Type 128Bytes array

Values

Null terminated String, max 128 characters

Comment

ETC_SWLIST00 ~ ETC_SWLIST24 : Remote #1 (No.1 ~ No.25)

ETC_SWLIST25 ~ ETC_SWLIST49 : Remote #2 (No.1 ~ No.25)

ETC_SWLIST50 ~ ETC_SWLIST74 : Remote #3 (No.1 ~ No.25)

ETC_SWLIST75 ~ ETC_SWLIST99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWNAME00 ~ ETC_SWNAME99

Set each Smooth Switching list name.

Type 32Bytes array

Values

Null terminated String, max 32 characters

Comment

ETC_SWNAME00 ~ ETC_SWNAME24 : Remote #1 (No.1 ~ No.25)

ETC_SWNAME25 ~ ETC_SWNAME49 : Remote #2 (No.1 ~ No.25)

ETC_SWNAME50 ~ ETC_SWNAME74 : Remote #3 (No.1 ~ No.25)

ETC_SWNAME75 ~ ETC_SWNAME99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWREMOTETYPE00 ~ ETC_ SWREMOTETYPE99

Set each Smooth Switching list remote type.

Type unsigned char

Values

0 *VSNM*

1 *RTSP*

2 *RTP*

3 *MPEGTS*

5 *RTMP*

Comment

ETC_SWREMOTETYPE00 ~ ETC_SWREMOTETYPE24 : Remote #1 (No.1 ~ No.25)

ETC_SWREMOTETYPE25 ~ ETC_SWREMOTETYPE49 : Remote #2 (No.1 ~ No.25)

ETC_SWREMOTETYPE50 ~ ETC_SWREMOTETYPE74 : Remote #3 (No.1 ~ No.25)

ETC_SWREMOTETYPE75 ~ ETC_SWREMOTETYPE99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWTIMER00 ~ ETC_SWTIMER99

Set each Smooth Switching list timer.

Type unsigned short

Values

1 ~ 65535 second

Comment

ETC_SWTIMER00 ~ ETC_SWTIMER24 : Remote #1 (No.1 ~ No.25)

ETC_SWTIMER25 ~ ETC_SWTIMER49 : Remote #2 (No.1 ~ No.25)

ETC_SWTIMER50 ~ ETC_SWTIMER74 : Remote #3 (No.1 ~ No.25)

ETC_SWTIMER75 ~ ETC_SWTIMER99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

ETC_SWENABLE00 ~ ETC_SWENABLE99

Enable each Smooth Switching.

Type unsigned char

Values

0	*Disable*
1	*Enable*

Comment

ETC_SWENABLE00 ~ ETC_SWENABLE24 : Remote #1 (No.1 ~ No.25)

ETC_SWENABLE25 ~ ETC_SWENABLE49 : Remote #2 (No.1 ~ No.25)

ETC_SWENABLE50 ~ ETC_SWENABLE74 : Remote #3 (No.1 ~ No.25)

ETC_SWENABLE75 ~ ETC_SWENABLE99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWPROTOCOL00 ~ ETC_SWPROTOCOL99

Set each Smooth Switching list protocol.

Type unsigned char

Values

0	*TCP*
1	*UDP*
2	*Multicast*

Comment

ETC_SWPROTOCOL00 ~ ETC_SWPROTOCOL24 : Remote #1 (No.1 ~ No.25)

ETC_SWPROTOCOL25 ~ ETC_SWPROTOCOL49 : Remote #2 (No.1 ~ No.25)

ETC_SWPROTOCOL50 ~ ETC_SWPROTOCOL74 : Remote #3 (No.1 ~ No.25)

ETC_SWPROTOCOL75 ~ ETC_SWPROTOCOL99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWPORT00 ~ ETC_SWPORT99

Set each Smooth Switching list port.

Type unsigned short

Values

1 ~ 65535 Port number

Comment

ETC_SWPORT00 ~ ETC_SWPORT24 : Remote #1 (No.1 ~ No.25)

ETC_SWPORT25 ~ ETC_SWPORT49 : Remote #2 (No.1 ~ No.25)

ETC_SWPORT50 ~ ETC_SWPORT74 : Remote #3 (No.1 ~ No.25)

ETC_SWPORT75 ~ ETC_SWPORT99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWCHAN00 ~ ETC_SWCHAN99

Set each Smooth Switching list channel.

Type unsigned char

Values

0	*Channel #1*
1	*Channel #2*
2	*Channel #3*
3	*Channel #4*
4	*Channel #1 Secondary#1*
5	*Channel #2 Secondary#1*
6	*Channel #3 Secondary#1*
7	*Channel #4 Secondary#1*
8	*Channel #1 Secondary#2*
9	*Channel #2 Secondary#2*
10	*Channel #3 Secondary#2*
11	*Channel #4 Secondary#2*
12	*Channel #1 Secondary#3*
13	*Channel #2 Secondary#3*
14	*Channel #3 Secondary#3*
15	*Channel #4 Secondary#3*

Comment

ETC_SWCHAN00 ~ ETC_SWCHAN24 : Remote #1 (No.1 ~ No.25)

ETC_SWCHAN25 ~ ETC_SWCHAN49 : Remote #2 (No.1 ~ No.25)

ETC_SWCHAN50 ~ ETC_SWCHAN74 : Remote #3 (No.1 ~ No.25)

ETC_SWCHAN75 ~ ETC_SWCHAN99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWUSESS00 ~ ETC_SWUSESS99

Use Streaming Server in Smooth Switching list.

Type unsigned char

Values

0	*Off*
1	*On(Use)*

Comment

ETC_SWUSESS00 ~ ETC_SWUSESS24 : Remote #1 (No.1 ~ No.25)

ETC_SWUSESS25 ~ ETC_SWUSESS49 : Remote #2 (No.1 ~ No.25)

ETC_SWUSESS50 ~ ETC_SWUSESS74 : Remote #3 (No.1 ~ No.25)

ETC_SWUSESS75 ~ ETC_SWUSESS99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWSSIP00 ~ ETC_SWSSIP99

Set Streaming Server IP in Smooth Switching list.

Type unsigned long

Values

IP address	Big-endian

Comment

ETC_SWSSIP00 ~ ETC_SWSSIP24 : Remote #1 (No.1 ~ No.25)

ETC_SWSSIP25 ~ ETC_SWSSIP49 : Remote #2 (No.1 ~ No.25)

ETC_SWSSIP50 ~ ETC_SWSSIP74 : Remote #3 (No.1 ~ No.25)

ETC_SWSSIP75 ~ ETC_SWSSIP99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWSSPORT00 ~ ETC_SWSSPORT99

Set Streaming Server Port in Smooth Switching list.

Type unsigned short

Values

1 ~ 65535 Port number

Comment

ETC_SWSSPORT00 ~ ETC_SWSSPORT24 : Remote #1 (No.1 ~ No.25)

ETC_SWSSPORT25 ~ ETC_SWSSPORT49 : Remote #2 (No.1 ~ No.25)

ETC_SWSSPORT50 ~ ETC_SWSSPORT74 : Remote #3 (No.1 ~ No.25)

ETC_SWSSPORT75 ~ ETC_SWSSPORT99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWUSER00 ~ ETC_SWUSER99

Set each Smooth Switching list user.

Type 16Bytes array

Values

Null terminated String, max 16 characters

Comment

ETC_SWUSER00 ~ ETC_SWUSER24 : Remote #1 (No.1 ~ No.25)

ETC_SWUSER25 ~ ETC_SWUSER49 : Remote #2 (No.1 ~ No.25)

ETC_SWUSER50 ~ ETC_SWUSER74 : Remote #3 (No.1 ~ No.25)

ETC_SWUSER75 ~ ETC_SWUSER99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWPASS00 ~ ETC_SWPASS99

Set each Smooth Switching list user password.

Type 16Bytes array

Values

Null terminated String, max 16 characters

Comment

ETC_SWPASS00 ~ ETC_SWPASS24 : Remote #1 (No.1 ~ No.25)

ETC_SWPASS25 ~ ETC_SWPASS49 : Remote #2 (No.1 ~ No.25)

ETC_SWPASS50 ~ ETC_SWPASS74 : Remote #3 (No.1 ~ No.25)

ETC_SWPASS75 ~ ETC_SWPASS99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

ETC_SWRESOL00 ~ ETC_SWRESOL99

Set Resolution(RTP) in Smooth Switching list.

Type unsigned char

Values

See VID_RESOLUTION.

Comment

ETC_SWRESOL00 ~ ETC_SWRESOL24 : Remote #1 (No.1 ~ No.25)

ETC_SWRESOL25 ~ ETC_SWRESOL49 : Remote #2 (No.1 ~ No.25)

ETC_SWRESOL50 ~ ETC_SWRESOL74 : Remote #3 (No.1 ~ No.25)

ETC_SWRESOL75 ~ ETC_SWRESOL99 : Remote #4 (No.1 ~ No.25)

Applied Model

TCS3500(Decoder Mode), TCS1500

Side Effect

2.14 VA parameters

VA_General_sensitive

Video Analysis Sensitivity

Type unsigned int

Values

0 ~ 100

Comment

Side Effect

VA_General_indoor

Video Analysis Indoor Mode

Type unsigned int

Values

0 *Indoor*

1 *Outdoor*

Comment

Side Effect

VA_General_color_check_enable

Video Analysis color check enable

Type unsigned int

Values

0 *Off*

1 *On*

Comment

Side Effect

VA_General_tracker_type

Video Analysis tracker type

Type unsigned int

Values

0 *None*

1 *Simple*

2 *Standard*

3 *Advanced*

Comment

Advanced(3) is not used.

Side Effect

VA_General_object_enable

Enable object detection.

Type unsigned int

Values

0 *Off*

1 *On*

Comment

Side Effect

VA_General_min_object_width
VA_General_min_object_height
VA_General_max_object_width
VA_General_max_object_height

Set min/max object width/height.

Type unsigned int

Values

0 ~ 100

Comment

Side Effect

VA_General_people_enable

Enable people detection.

Type unsigned int

Values

0	*Off*
1	*On*

Comment

Side Effect

VA_General_min_people_width
VA_General_min_ people _height
VA_General_max_ people _width
VA_General_max_ people _height

Set min/max people width/height.

Type unsigned int

Values

0 ~ 100

Comment

Side Effect

VA_General_vehicle_enable

Enable vehicle detection.

Type unsigned int

Values

0	*Off*

1 *On*

Comment

Side Effect

VA_General_min_vehicle_width
VA_General_min_vehicle_height
VA_General_max_vehicle_width
VA_General_max_vehicle_height

Set min/max vehicle width/height.

Type unsigned int

Values

0 ~ 100

Comment

Side Effect

VA_General_other_enable

Enable other object detection.

Type unsigned int

Values

0 *Off*

1 *On*

Comment

Side Effect

VA_LineCounting_enable

Enable LineCrossing.

Type unsigned int

Values

0 *Off*

1 *On*

Comment

Side Effect

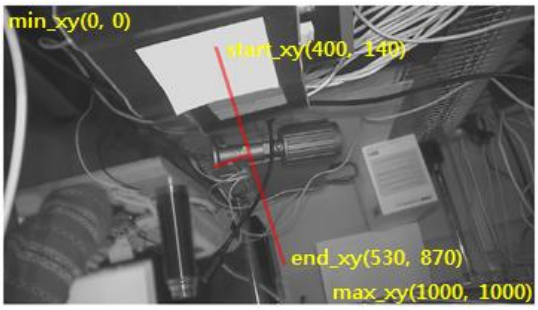
VA_LineCounting_start_x
VA_LineCounting_start_y
VA_LineCounting_end_x
VA_LineCounting_end_y

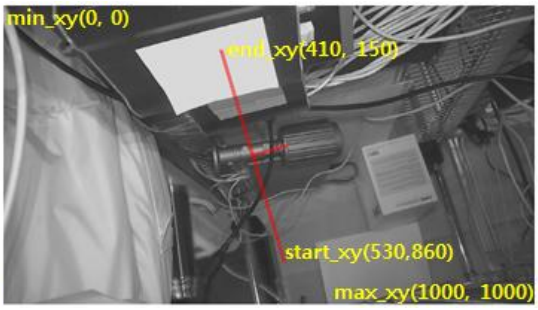
Set Line.

Type unsigned int

Values

0 ~ 1000





Comment

Side Effect

VA_LineCounting_camera_height

Set camera height for area-based counting in meters.

Type unsigned int

Values

1 ~ 10 meters

Comment

Side Effect

VA_Tampering_enable

Enable Tampering

Type unsigned int

Values

0 *Off*

1 *On*

Comment

Side Effect

VA_Itrusion_enable

Enable Intrusion

Type unsigned int

Values

0	*Off*
1	*On*

Comment

Side Effect

VA_Itrusion_object_size

Set Intrusion object size

Type unsigned int

Values

1 ~ 100	percentage (Min object and intrusion area overlap)

Comment

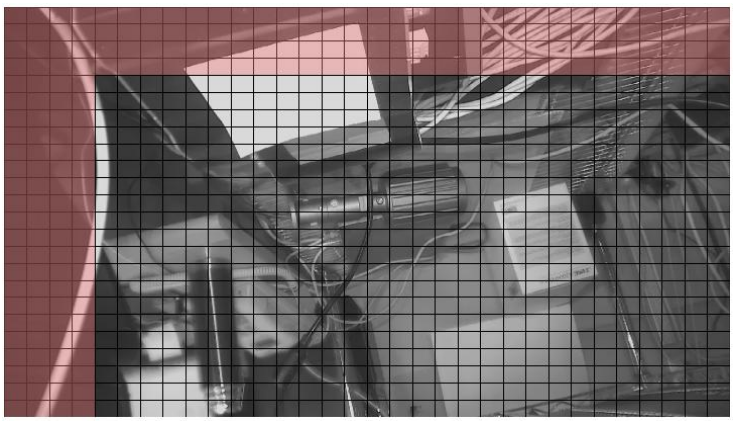
Side Effect

VA_Itrusion_Area

Set Intrusion area

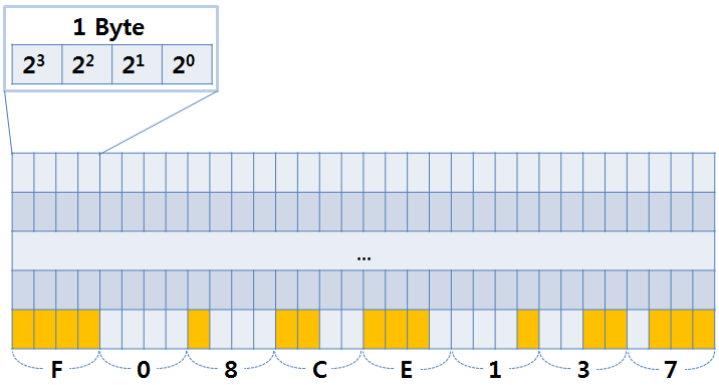
Type Array of 768 unsigned char (32 colums, 24 rows)

Values



VA_Itrusion_Area=FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF0000000F0000000F0000000F0000000F0000000F0000000

F0000000F0000000F0000000F0000000F0000000F0000000F0000000F0000000F0000000F0000000F0000000



Comment

*192Bytes (8Bytes * 24Bytes)*

Side Effect

2.15 VideoOutput parameters

VOUT_DECODEDELAY_0
VOUT_DECODEDELAY_1
VOUT_DECODEDELAY_2
VOUT_DECODEDELAY_3

Set Video Output buffering time.

Type unsigned char

Values

0 ~ 20

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

When value is 5, buffering time is 500ms. (value * 100ms)

Side Effect

VOUT_AUDIOSYNC_0
VOUT_AUDIOSYNC_1
VOUT_AUDIOSYNC_2
VOUT_AUDIOSYNC_3

Set Audio Output sync.

Type char

Values

-20 ~ 20

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

When value is -10, audio sync is -500ms. (value * 50ms)

Side Effect

VOUT_CROPENABLE_0
VOUT_CROPENABLE_1
VOUT_CROPENABLE_2
VOUT_CROPENABLE_3

Set Video Output Mode

Type unsigned char

Values

0	*stretch*
1	*crop*
2	*black fill*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

VOUT_DISPLAY_HDMI

Set HDMI output Display Mode

Type unsigned char

Values

0	*channel 1 only*
1	*channel 2 only*
2	*channel 3 only*
3	*channel 4 only*
4	*Rotation*
5	*Quad*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

VOUT_ROT_DELAY_HDMI

Set channel rotation time. (HDMI output)

Type unsigned char

Values

5, 10, 15, 20, 30, 60 sec

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

VOUT_DISPLAY_SDI

Set SDI Output Display Mode

Type unsigned char

Values

0	*channel 1 only*
1	*channel 2 only*
2	*channel 3 only*
3	*channel 4 only*
4	*Rotation*
5	*Quad*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

VOUT_ROT_DELAY_SDI

Set channel rotation time. (SDI output)

Type unsigned char

Values

5, 10, 15, 20, 30, 60 sec

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

VOUT_DISPLAY_CVVS

Set Composite(CVBS) Output Display Mode

Type unsigned char

Values

0	*channel 1 only*
1	*channel 2 only*
2	*channel 3 only*

3 *channel 4 only*

4 *Rotation*

5 *Quad*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

VOUT_ROT_DELAY_CVVS

Set channel rotation time. (Composite(CVBS) output)

Type unsigned char

Values

5, 10, 15, 20, 30, 60 sec

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

2.16 Remote Address parameters

RMT_REMOTETYPE_0

RMT_REMOTETYPE_1

RMT_REMOTETYPE_2

RMT_REMOTETYPE_3

Set Remote Type.

Type unsigned char

Values

0 *Normal*

1 *RTSP*

2 *RTP*

3 *MPEG-TS*

4 *Onvif*

5 *RTMP*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_PROTOCOL_0
RMT_PROTOCOL_1
RMT_PROTOCOL_2
RMT_PROTOCOL_3

Set Media protocol

Type unsigned char

Values

0	*TCP*
1	*UDP*
2	*Multicast*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_DOMAINNAME_0
RMT_DOMAINNAME_1
RMT_DOMAINNAME_2
RMT_DOMAINNAME_3

Set IP address or URL of IP camera or Encoder to be connected.

Type 128 bytes array

Values

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

In case of RTSP URL, URL without RTSP protocol prefix is also allowed.

rtsp://192.168.10.100/video1

192.168.10.100/video1

rtsp://192.168.10.100:8554/video1

192.168.10.100:8554/video1

Side Effect

RMT_REMOTEPORT_0
RMT_REMOTEPORT_1
RMT_REMOTEPORT_2
RMT_REMOTEPORT_3

Port to be used.

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

When the URL configured in NET_DOMAINNAME(or RMT_DOMAINNAME_X) contains a port number, this port setting is ignored.

Side Effect

RMT_REMOTECHANNEL_0
RMT_REMOTECHANNEL_1
RMT_REMOTECHANNEL_2
RMT_REMOTECHANNEL_3

Channel number of remote system to connect (when remote system has multiple channels. Normal

Type unsigned char

Values

0	*Channel#1*
1	*Channel#2*
2	*Channel#3*
3	*Channel#4*
4	*Channel#1Secondary#1*
5	*Channel#1Secondary#2*
6	*Channel#1Secondary#3*
7	*Channel#2Secondary#1*
8	*Channel#2Secondary#2*
9	*Channel#2Secondary#3*
10	*Channel#3Secondary#1*
11	*Channel#3Secondary#2*
12	*Channel#3Secondary#3*
13	*Channel#4Secondary#1*
14	*Channel#4Secondary#2*
15	*Channel#4Secondary#3*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_USESS_0
RMT_USESS_1
RMT_USESS_2
RMT_USESS_3

Connect to remote system via streaming server.

Type unsigned char

Values

0	*Off*
1	*On*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_SSIP_0
RMT_SSIP_1
RMT_SSIP_2
RMT_SSIP_3

IP address of the streaming server.

Type unsigned long

Values

IP address	*Big-endian*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_SSPORT_0
RMT_SSPORT_1
RMT_SSPORT_2
RMT_SSPORT_3

Connection Port number of the streaming server.

Type unsigned short

Values

1 ~ 65535	*Port number*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_SSUSER_0
RMT_SSUSER_1
RMT_SSUSER_2
RMT_SSUSER_3

User name to connect to the streaming server

Type 16bytes array

Values

Null terminated String, Max 15 characters.

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_SSPASS_0
RMT_SSPASS_1
RMT_SSPASS_2
RMT_SSPASS_3

Password to connect to the streaming server.

Type 16bytes array

Values

Null terminated String, Max 15 characters.

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_RTPRECVRES_0
RMT_RTPRECVRES_1
RMT_RTPRECVRES_2
RMT_RTPRECVRES_3

Set RTP stream resolution.

Type unsigned char

Values

0	*720x480*
1	*720x240*

2	*352x480*
3	*352x240*
4	*720x576*
5	*720x288*
6	*352x576*
7	*352x288*
8	*640x480*
9	*800x600*
10	*1024x768*
11	*1280x960*
12	*1280x1024*
13	*1440x900*
14	*1600x1050*
15	*1680x1050*
16	*1280x720*
17	*1920x1080*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_ONVIF_PROF_CURR_0
RMT_ONVIF_PROF_CURR_1
RMT_ONVIF_PROF_CURR_2
RMT_ONVIF_PROF_CURR_3

Set Onvif Profile..

Type unsigned char

Values

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_SWDISABLE_0
RMT_SWDISABLE_1
RMT_SWDISABLE_2
RMT_SWDISABLE_3

Connection is overlapped for seamless switching when remote address is changed.

Type unsigned char

Values

0	*Overlapped connection enabled*
1	*Overlapped connection disabled*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_WEBDISPLAY

Set Remote number for web live.

Type unsigned char

Values

0	*Remote#1*
1	*Remote#2*
2	*Remote#3*
3	*Remote#4*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

RMT_RECORDING

Set Remote number for recording.

Type unsigned char

Values

0	*Remote#1*
1	*Remote#2*
2	*Remote#3*
3	*Remote#4*

Comment

Valid when SYS_MODE is Decoder and the decoders supporting quad-view.

Side Effect

Appendix A. Definition of Time Zones

SYS_TIMEZONE configuration in server use the index to the list of time zones defined as below. The index begins with 0.

(GMT-12:00) International Date Line West
(GMT-11:00) Midway islands, Samoa
(GMT-10:00) Hawaii, Honolulu
(GMT-09:00) Alaska
(GMT-08:00) Pacific Time(US & Canada)
(GMT-08:00) Tijuana, Baja California
(GMT-07:00) Mountain Time (US & Canada)
(GMT-07:00) Arizona
(GMT-07:00) Chihuahua, La Paz, Mazatlan
(GMT-06:00) Guadalajara, Mexico City, Monterrey
(GMT-06:00) Saskatchewan
(GMT-06:00) Central Time(US & Canada)
(GMT-06:00) Central America
(GMT-05:00) Eastern Time (US & Canada)
(GMT-05:00) Bogota, Lima, Quito, Rio Branco
(GMT-05:00) Indiana (East)
(GMT-04:00) Atlantic Time (Canada)
(GMT-04:00) Manaus
(GMT-04:00) Santiago
(GMT-04:00) Caracas, La Paz
(GMT-03:30) Newfoundland
(GMT-03:00) Greenland
(GMT-03:00) Montevideo
(GMT-03:00) Buenos Aires, Georgetown
(GMT-03:00) Brasilia
(GMT-02:00) Mid-Atlantic
(GMT-01:00) Cape Verde Is
(GMT-01:00) Azores
(GMT) Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London
(GMT) Casablanca, Monrovia, Reykjavik
(GMT+01:00) Belgrade, Bratislave, Budapest, Ljubljana, Prague
(GMT+01:00) Brussels, Copenhagen, Madrid, Paris
(GMT+01:00) Sarajevo, Skopje, Warsaw, Zaqred
(GMT+01:00) West Central Africa
(GMT+01:00) Amsterdam, Berlin, Bern, Rome, Stockholm, Vienna
(GMT+02:00) Minsk
(GMT+02:00) Beirut
(GMT+02:00) Windhoek
(GMT+02:00) Athens, Bucharest, Istanbul
(GMT+02:00) Amman
(GMT+02:00) Jerusalem
(GMT+02:00) Cairo
(GMT+02:00) Harare, Pretoria
(GMT+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius
(GMT+03:00) Nairobi
(GMT+03:00) Moscow, St.Petersburg, Volgograd
(GMT+03:00) Baghdad

(GMT+03:00) Kuwait, Riyadh
(GMT+03:00) Tbilisi
(GMT+03:30) Tehran
(GMT+04:00) Baku
(GMT+04:00) Abu Dhabi, Muscat
(GMT+04:00) Yerevan
(GMT+04:30) Kabul
(GMT+05:00) Ekaterinburg
(GMT+05:00) Islamabad, Karachi, Tashkent
(GMT+05:30) Sri Jayawardenepura
(GMT+05:30) Chennai, Kolkata, Mumbai, New Delhi
(GMT+05:45) Kathmandu
(GMT+06:00) Astana, Dhaka
(GMT+06:00) Almaty, Novosibirsk
(GMT+06:30) Yangon (Rangoon)
(GMT+07:00) Bangkok, Hanoi, Jakarta
(GMT+07:00) Krasnoyarsk
(GMT+08:00) Beijing, Chongqing, Hong kong, Urumqi
(GMT+08:00) Irkutsk, Ulaan Bataar
(GMT+08:00) Kuala Lumpur, Singapore
(GMT+08:00) Taipei
(GMT+08:00) Perth
(GMT+09:00) Seoul
(GMT+09:00) Yakutsk
(GMT+09:00) Osaka, Sapporo, Tokyo
(GMT+09:30) Darwin
(GMT+09:30) Adelaide
(GMT+10:00) Guam, Port Moresby
(GMT+10:00) Brisbane
(GMT+10:00) Vladivostok
(GMT+10:00) Canberra, Melbourne, Sydney
(GMT+10:00) Hobart
(GMT+11:00) Magadan, Solomon Is., New Caledonia
(GMT+12:00) Auckland, Wellington
(GMT+12:00) Fiji, Kamchatka, Marshall Is.
(GMT+13:00) Nuku'alofa

API Commands for Video Decoders (Remote Decode Address Settings)

HTTP

ANT-36000 Decoder

2017 March

Contact: support@antrica.com
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1. Overview

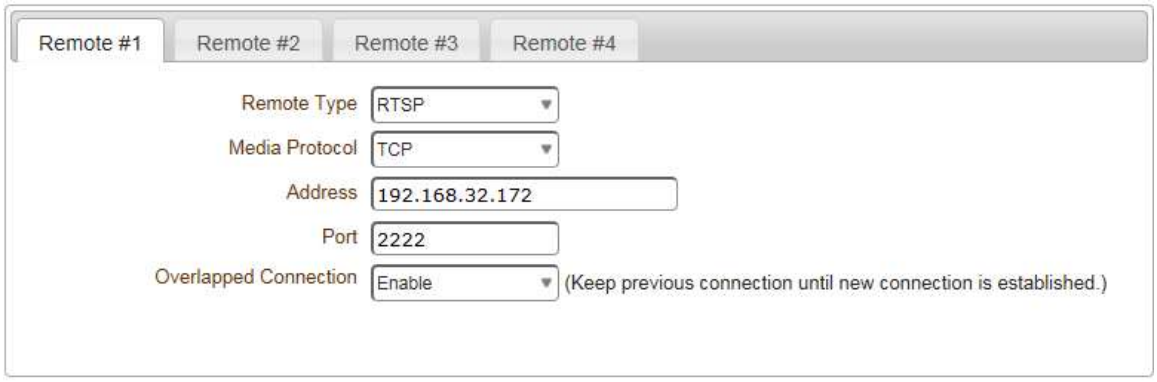
This document describes how to configure Decoder's remote address which corresponds to the address of IP camera or Encoder using HTTP API. Configuring remote address is necessary when Decoder is switched to IP camera or Encoder dynamically.
For basic usage of HTTP API, please refer to another document - ' HTTP API.doc".

2. Configuration parameters for remote address

Decoder

Parameters	Description
NET_REMOTETYPE RMT_REMOTETYPE_0 RMT_REMOTETYPE_1 RMT_REMOTETYPE_2 RMT_REMOTETYPE_3	Remote(protocol) type 0: Normal 1: RTSP 2: RTP 3: MPEG-TS 4: Onvif 5: RTMP
NET_PROTOCOL RMT_PROTOCOL_0 RMT_PROTOCOL_1 RMT_PROTOCOL_2 RMT_PROTOCOL_3	Media protocol: 0: TCP 1: UDP 2: Multicast
NET_DOMAINNAME RMT_DOMAINNAME_0 RMT_DOMAINNAME_1 RMT_DOMAINNAME_2 RMT_DOMAINNAME_3	IP address or URL of IP camera or Encoder to be connected. In case of RTSP URL, URL without RTSP protocol prefix is also allowed. rtsp://192.168.10.100/video1 192.168.10.100/video1 rtsp:://192.168.10.100:8554.video1 192.168.10.100:8554.video1
NET_REMOTEPORT RMT_REMOTEPORT_0 RMT_REMOTEPORT_1 RMT_REMOTEPORT_2 RMT_REMOTEPORT_3	Port to be used. When the URL configured in NET_DOMAINNAME(or RMT_DOMAINNAME_X) contains a port number, this port setting is ignored.
RMT_SWDISABLE_0 RMT_SWDISABLE_1 RMT_SWDISABLE_2 RMT_SWDISABLE_3	Connection is overlapped for seamless switching when remote address is changed: 0: Overlapped connection enabled 1: Overlapped connection disabled

*NET_REMOTETYPE is for single channel decoder (TCS-300, TCS-2000 and old F/W of TCS-1500/TCS-3500 which doesn't support quad-viewing), while RMT_REMOTETYPE_0, RMT_REMOTETYPE_1, RMT_REMOTETYPE_2. RMT_REMOTETYPE_3 are for the decoders supporting quad-view (Recent F/W of TCS-1500/TCS-3500). This relationship is common for other parameters: NET_PROTOCOL, NET_DOMAINNAME etc.

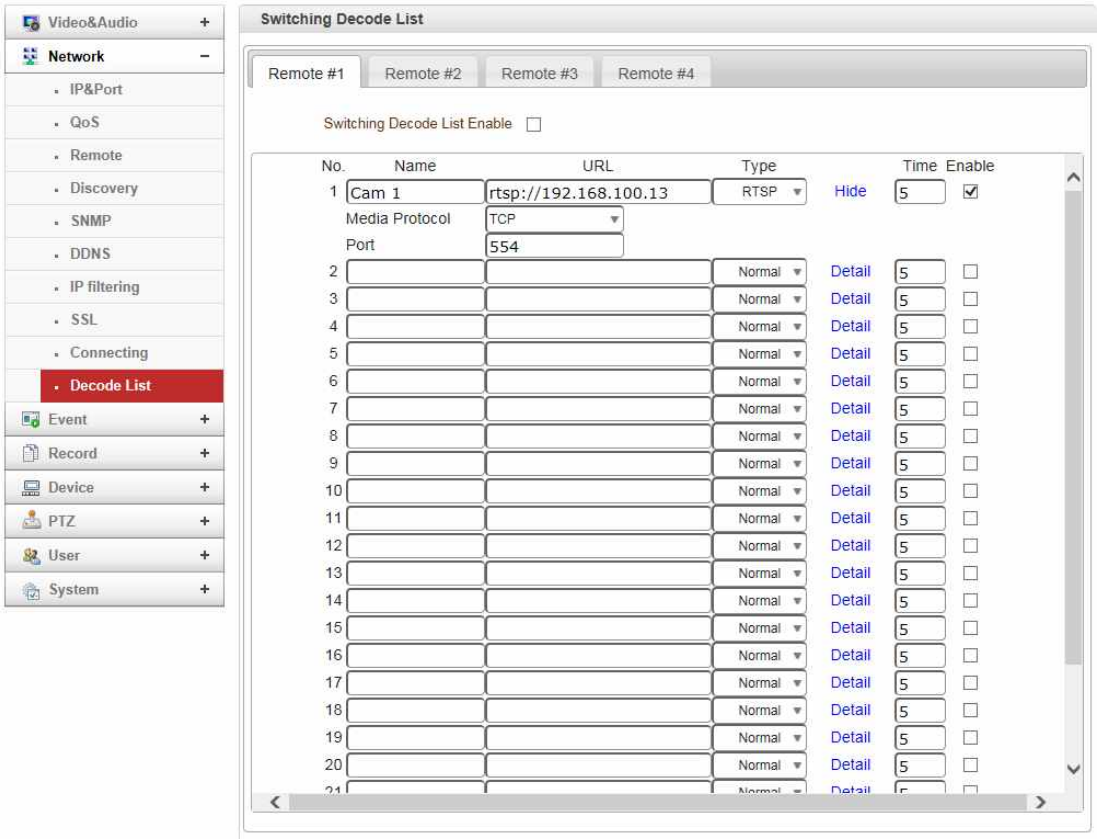


3. Configuration parameters for vide output port

Please refer to 2.15 VideoOutput parameters section of Configuration Parameters document for usage of various parameters regarding video output control.

4. Use of switching list

It is possible to configure a list of remote peer (IP camera or video server) and make the decoder switch to each peer sequentially with specified interval. Decoder's web viewer has the following configuration page for this feature.



The items in this page can be configured with the following configuration parameters which are described in 2.13 ETC parameters section of Configuration Parameters document.

ETC_SWLISTENABLE0 ~ ETC_SWLISTENABLE3
ETC_SWLIST00 ~ ETC_SWLIST99
ETC_SWNAME00 ~ ETC_SWNAME99
ETC_SWREMOTETYPE00 ~ ETC_ SWREMOTETYPE99
ETC_SWTIMER00 ~ ETC_SWTIMER99
ETC_SWENABLE00 ~ ETC_SWENABLE99
ETC_SWPROTOCOL00 ~ ETC_SWPROTOCOL99
ETC_SWPORT00 ~ ETC_SWPORT99
ETC_SWCHAN00 ~ ETC_SWCHAN99
ETC_SWUSESS00 ~ ETC_SWUSESS99
ETC_SWSSIP00 ~ ETC_SWSSIP99
ETC_SWSSPORT00 ~ ETC_SWSSPORT99
ETC_SWUSER00 ~ ETC_SWUSER99
ETC_SWPASS00 ~ ETC_SWPASS99
ETC_SWRESOL

5. HTTP API Examples

Examples are shown for RTSP protocols. Similar scheme can be applied for other protocols.

Setting only Address when default RTSP port is used
http://192.168.10.100/httpapi/WriteParam?action=writeparam&RMT_DOMAINNAME_0=rtsp://192.168.10.200/video1

Setting only Address when a different RTSP port is used
http://192.168.10.100/httpapi/WriteParam?action=writeparam&RMT_DOMAINNAME_0=rtsp://192.168.10.200:8554/video1

Setting multiple parameters in a command
http://192.168.10.100/httpapi/WriteParam?action=writeparam&RMT_REMOTETYPE_0=1&RMT_PROTOCOL_0=1&RMT_DOMAINNAME=rtsp://192.168.10.200/video1

Reading the address of remote peer
http://192.168.32.212/httpapi/ReadParam?action=readparam&RMT_DOMAINNAME_0=0