

ANT-36000 HTTP API reference guide

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This document describes configuration parameters of Antrica video servers, IP cameras &/or decoder of the ANT-35000, ANT-36000 series. These parameters are used to control system operations, and they can be read or write in more than one method from client application.

For further help and advice please contact Antrica on:
Email: support@antrica.com
Phone: +44 1628 626098 ext 3

Document info

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Detailed Index

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1. Overview

This document describes configuration parameters of Antrica video servers, IP cameras &/or decoder of the ANT-35000, ANT-36000 series. These parameters are used to control system operations, and they can be read or write in more than one method 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

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		
	SYS_OPENSSSLVERSION		Read-only
	SYS_LOGEXCLUDEITEM		
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_MDSSENSITIVITY	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_INFODISPOSITION	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_DUALINTERVAL	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_DMDDEMISTMODE	0x0248	
VID_USETRIPLE1	0x0249	
VID_TRIPLEALGORITHM1	0x024A	
VID_TRIPLEPREFERENCE1	0x024B	
VID_TRIPLERESOLUTION1	0x024C	
VID_TRIPLEFRAMERATE1	0x024D	

	VID_TRIPLEQUALITY1	0x024E	
	VID_TRIPLEBANDWIDTH1	0x024F	
	VID_TRIPLEINTERVAL1	0x0250	
	VID_TRIPLESCEENABLE1	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_TRIPLEINTERVAL2	0x025E	
	VID_TRIPLESCEENABLE2	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_CAPTRIPLEFRAMERATEMAX1	0x0268	Read-only
	VID_CAPTRIPLEFRAMERATEMIN1	0x0269	Read-only
	VID_CAPTRIPLERESOLUTION2	0x026A	Read-only
	VID_CAPTRIPLEBANDWIDTHMAX2	0x026B	Read-only
	VID_CAPTRIPLEBANDWIDTHMIN2	0x026C	Read-only
	VID_CAPTRIPLEFRAMERATEMAX2	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

network	AUD_CURDECBITRATE	0x030C	Read-only
	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_KEEPAIVETIME	0x0410	Not used
	NET_KEEPAIVEINTERVAL	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_DYDNSID	0x041A	
	NET_DYDNSPASSWD	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_SSSPORT	0x0439	
	NET_SSUSER	0x043A	
	NET_SSPASS	0x043B	
	NET_REMOTEPORT	0x043C	

	NET_USER_TSPAUTH	0x043D	
	NET_REMOTE_TYPE	0x0445	
	NET_USE_HTTP_API_AUTH	0x0447	
	NET_UPNP_ENABLE	0x0453	
	NET_ZEROCONF_ENABLE	0x0454	
	NET_WSDISCOVERY_ENABLE	0x0458	
	NET_HTTPSPORT	0x0459	
	NET_IPV6_LINK_LOCAL_ADDRESS	0x045A	
	NET_TTL	0x045C	
	NET_RTP_SESSION_VIDEO	0x045E	
	NET_QOS_ENABLE		
	NET_DSCP		
	NET_SSLENABLE		
	NET_SSLCRYPTO		
	NET_SSLUSER		
	NET_SSLPASS		
	NET_SSLADDRESS		
	NET_SSLPORT		
serial	SER_PROTOCOL_1	0x0501	
	SER_BITRATE_1	0x0502	
	SER_DATA_BIT_1	0x0503	
	SER_PARITY_1	0x0504	
	SER_STOPBIT_1	0x0505	
	SER_PROTOCOL_2	0x0506	
	SER_BITRATE_2	0x0507	
	SER_DATA_BIT_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_DATA_BIT_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_DATA_BIT_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_BEEP_DURATION	0x060A	
	EVT_RELAY_DURATION_1	0x060B	
	EVT_RELAY_DURATION_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_RELAY_DURATION_3	0x0614	Not used
	EVT_RELAY_DURATION_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
EVT_USERDEFINEDEVENT1		
EVT_USERDEFINEDEVENT2		
EVT_USERDEFINEDEVENTTYPE1		
EVT_USERDEFINEDEVENTTYPE2		
EVT_PRESETUSERDEFINEDEVENT1		
EVT_PRESETUSERDEFINEDEVENT2		
EVT_OSDUSERDEFINEDEVENT1		
EVT_OSDUSERDEFINEDEVENT2		
EVT_HTTPUSERDEFINEDEVENT1		
EVT_HTTPUSERDEFINEDEVENT2		

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_DISKAVALIABLE	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		
	PTZ_AUTOCALIBRATION		
	PTZ_AUTOCALIBRATIONTIME		
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		Multi-config
	CAM_SONY_Gamma256stepsMinus		
	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_MinimumShutterMode		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		Multi-config
CAM_HITACHI_Pedestal1		
CAM_HITACHI_Pedestal2		
CAM_HITACHI_Pedestal3		
CAM_HITACHI_Pedestal4		
CAM_HITACHI_ColorLevel0		Multi-config
CAM_HITACHI_ColorLevel1		
CAM_HITACHI_ColorLevel2		
CAM_HITACHI_ColorLevel3		
CAM_HITACHI_ColorLevel4		
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_AEControllIrisoffset		Multi-config
CAM_HITACHI_BlacklevelControlAGC0		Multi-config
CAM_HITACHI_BlacklevelControlAGC1		
CAM_HITACHI_YgammaAGC0		Multi-config
CAM_HITACHI_YgammaAGC1		

CAM_HITACHI_YgammaAGC2		
CAM_HITACHI_YgammaAGC3		
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		Multi-config
CAM_NEXT_WB_BGain		Multi-config
CAM_NEXT_DN_Mode		Multi-config
CAM_NEXT_DN_Delay		Multi-config
CAM_NEXT_AGC_DN		Multi-config
CAM_NEXT_AGC_ND		Multi-config
CAM_NEXT_CDS_DN		Multi-config

CAM_NEXT_CDS_ND		
CAM_NEXT_2DNR_Mode		Multi-config
CAM_NEXT_3DNR_Mode		
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		Multi-config
CAM_NEXT_GainR		
CAM_NEXT_GainYE		
CAM_NEXT_GainG		
CAM_NEXT_GainCY		
CAM_NEXT_GainB		
CAM_NEXT_GainY		
CAM_NEXT_GainY		
CAM_SONYIS_Lens_Mode		Multi-config
CAM_SONYIS_DC_Lens_Mode		Multi-config
CAM_SONYIS_OpenVoltage		Multi-config
CAM_SONYIS_CloseVoltage		
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		Multi-config
CAM_SONYIS_AWB_BOOffset		
CAM_SONYIS_ColorTemperature		Multi-config
CAM_SONYIS_DN_Mode		Multi-config
CAM_SONYIS_DN_AGC_DN		Multi-config
CAM_SONYIS_DN_AGC_ND		
CAM_SONYIS_DN_CDS_DN		Multi-config
CAM_SONYIS_DN_CDS_ND		
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		Multi-config
CAM_SONYIS_CrGain		
CAM_PS_DN_Mode		Multi-config
CAM_PS_DN_Adjust_DN		Multi-config
CAM_PS_DN_Adjust_ND		
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		Multi-config
CAM_PS_WB_BLUE		
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		Multi-config
CAM_PS_GAIN_BW_Max		
CAM_PS_GAIN_Auto_Max		
CAM_PS_GAIN_Color		Multi-config
CAM_PS_GAIN_BW		
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		Multi-config
CAM_PS_ApertureHDirect		
CAM_PS_HighlightCompensation		Multi-config
CAM_PS_FocusArea		Multi-config
CAM_PS_ATWRed		Multi-config
CAM_PS_ATWBlue		
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_HORIZONTAL		Multi-config
CAM_AMBA_FLIP_VERTICAL		
CAM_AMBA_AWB_MODE		Multi-config
CAM_AMBA_AWB_RGAIN		Multi-config
CAM_AMBA_AWB_GGAIN		
CAM_AMBA_AWB_BGAIN		
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		Multi-config
CAM_AMBA_TDN_NIGHT_TH		
CAM_AMBA_DSS_VALUE_NIGHT		Multi-config
CAM_AMBA_DSS_MODE		Multi-config
CAM_AMBA_AE_TARGET		Multi-config
CAM_AMBA_CDS_DAY_TH		Multi-config
CAM_AMBA_CDS_NIGHT_TH		
CAM_AMBA_CURRENT_Y		Read Only
CAM_AMBA_BRIGHTNESS		Multi-config
CAM_AMBA_CONTRAST		
CAM_AMBA_SATURATION		
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_AWB_RGAIN		Multi-config
CAM_HI_AWB_GGAIN		Multi-config
CAM_HI_AWB_BGAIN		Multi-config
CAM_HI_TDN_FILTER		Multi-config
CAM_HI_DSS_VALUE_DAY		Multi-config
CAM_HI_DSS_VALUE_NIGHT		
CAM_HI_AE_MAX		Multi-config
CAM_HI_AE_MIN		Multi-config
CAM_HI_AGC_LIMIT		Multi-config
CAM_HI_FOCUS_LIMIT		Multi-config
CAM_HI_DZOOM_MODE		Multi-config
CAM_HI_DIS_MODE		Multi-config
CAM_MASKPOS0X		
CAM_MASKPOS1X		
CAM_MASKPOS2X		
CAM_MASKPOS3X		

	CAM_MASKPOS0Y CAM_MASKPOS1Y CAM_MASKPOS2Y CAM_MASKPOS3Y		
	CAM_MASKPOS0W CAM_MASKPOS1W CAM_MASKPOS2W CAM_MASKPOS3W		
	CAM_MASKPOS0H CAM_MASKPOS1H CAM_MASKPOS2H CAM_MASKPOS3H		
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_EVENTHTTTPENABLE0		
ETC_EVENTHTTTPENABLE1		
ETC_EVENTHTTTPENABLE2		
ETC_EVENTHTTTPENABLE3		
ETC_EVENTHTTTPSTRING0		
ETC_EVENTHTTTPSTRING1		
ETC_EVENTHTTTPSTRING2		
ETC_EVENTHTTTPSTRING3		
ETC_AUTOPARKINGSCHESUN		
ETC_AUTOPARKINGSCHEMON		
ETC_AUTOPARKINGSCHETUE		
ETC_AUTOPARKINGSCHEWED		
ETC_AUTOPARKINGSCHETHU		
ETC_AUTOPARKINGSCHEFRI		
ETC_AUTOPARKINGSCHESAT		
ETC_MOTIONSCHEUN		
ETC_MOTIONSCHEMON		
ETC_MOTIONSCHEUE		
ETC_MOTIONSCHEWEB		
ETC_MOTIONSCHEHU		
ETC_MOTIONSCHEFRI		
ETC_MOTIONSCHEAT		
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_SWUCESS00 ~ ETC_SWUCESS99		
ETC_SWSSIP00 ~		
ETC_SWSSIP99		
ETC_SWSSPORT00 ~ ETC_SWSSPORT99		
ETC_SWUSER00 ~ ETC_SWUSER99		

ETC_SWPASS00 ~ ETC_SWPASS99		
ETC_SWRESOL00 ~ ETC_SWRESOL99		
ETC_PVOSD1LEFT~ ETC_PVOSD4LEFT		
ETC_PVOSD1RIGHT~ ETC_PVOSD4RIGHT		
ETC_PVOSD1INENABLE~ ETC_PVOSD4INENABLE		
ETC_PVOSD1INSTRING~ ETC_PVOSD4INSTRING		
ETC_PVOSD1INX~ ETC_PVOSD4INX		
ETC_PVOSD1INY~ ETC_PVOSD4INX		
ETC_PVOSD1INFONTSIZE~ ETC_PVOSD4INFONTSIZE		
ETC_PVOSD1OUTENABLE~ ETC_PVOSD4OUTENABLE		
ETC_PVOSD1OUTSTRING~ ETC_PVOSD4OUTSTRING		
ETC_PVOSD1OUTX~ ETC_PVOSD4OUTX		
ETC_PVOSD1OUTY~ ETC_PVOSD4OUTY		
ETC_PVOSD1OUTFONTSIZE~ ETC_PVOSD4OUTFONTSIZE		
ETC_PVOSD1OUTCOLOR~ ETC_PVOSD4OUTCOLOR		
ETC_IPV6ADDRESS		
ETC_IPV6SUBNETPREFIXLENGTH		
ETC_IPV6DEFAULTGATEWAY		
ETC_WiperMode		
ETC_WiperOperationDay		
ETC_WiperOperationTime0 ETC_WiperOperationTime1 ETC_WiperOperationTime2 ETC_WiperOperationTime3		
ETC_WiperStartHour0 ETC_WiperStartHour1 ETC_WiperStartHour2 ETC_WiperStartHour3		
ETC_WiperStartMin0 ETC_WiperStartMin1 ETC_WiperStartMin2 ETC_WiperStartMin3		
ETC_SRTMODE0 ETC_SRTMODE1 ETC_SRTMODE2 ETC_SRTMODE3		
ETC_SRTADDRESS0 ETC_SRTADDRESS1 ETC_SRTADDRESS2 ETC_SRTADDRESS3		
ETC_SRTPORT0 ETC_SRTPORT1 ETC_SRTPORT2 ETC_SRTPORT3		
ETC_SRTSECURE0 ETC_SRTSECURE1 ETC_SRTSECURE2 ETC_SRTSECURE3		
ETC_SRTPASSPHRASE0		

	ETC_S RTPASSPHRASE1 ETC_S RTPASSPHRASE2 ETC_S RTPASSPHRASE3		
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 Intrusion enable		IVS License
	VA Intrusion object size		IVS License
	VA Intrusion 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_CVBS		Quad-view
	VOUT_ROT_CVBS		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 RMT_REMOTECHANNEL_1 RMT_REMOTECHANNEL_2 RMT_REMOTECHANNEL_3		Quad-view
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 ANT-3400, 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. System Configuration

2.1. **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

2.2. **SYS_STANDARD**

Video standard

Type unsigned char

Values

0	PAL
1	NTSC

Comment

Side Effect

System reboot

2.3. **SYS_SYSTEMID**

System ID

Type 16bytes array

Values

Null terminated String, Max 15 characters

Comment

Side Effect

2.4. **SYS_VERSION**

Firmware version

Type 16bytes array

Values

Null terminated String, max 15 characters

Comment

Read-only

Side Effect

2.5. **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

2.6. **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

2.7. **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

2.8. **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

2.9. **SYS_TIMEZONE**

Time zone.

Type unsigned char

Values *see Time Zone definition in Appendix A*

Comment

Side Effect
Time change

2.10. **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

2.11. **SYS_NTPENABLE**

Use of NTP server

Type unsigned char

Values
0 Disable
1 Enable

Comment

Side Effect
Time change if needed.

2.12. **SYS_NTPDOMAIN**

NTP server address

Type 64bytes array

Values *Null terminated String, Max 63 characters*

Comment

Side Effect
Time change if needed.

2.13. **SYS_LOGINSKIPENABLE**

Set if 'Skip Login' is to be enabled

Type unsigned char

Values
0 Disable
1 Enable

Comment

Side Effect

2.14. **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	

2.15. **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	<i>Italian</i>
12	<i>Polish</i>
13	<i>French</i>
14	<i>Czech</i>
15	<i>traditional Chinese</i>
16	<i>Turkish</i>
17	<i>Dutch</i>

Comment
Side Effect

2.16. **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

2.17. **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

2.18. **SYS_MODELNAME**

Model name

Type 16bytes array

Values *Null terminated String, max 15 characters*

Comment
Read-only

Side Effect

2.19. **SYS_BOARDID**

Board ID

Type unsigned char

Values

Comment
Read-only

Side Effect

2.20. **SYS_NUMOFVIDEO**

Number of video channels.

Type unsigned char

Values

Comment
Read-only

Side Effect

2.21. **SYS_NUMOFAUDIO**

Number of audio channels.

Type unsigned char

Values

Comment
Read-only

Side Effect

2.22. **SYS_NUMOFSENSOR**

Number of sensor input.

Type unsigned char

Values

Comment
Read-only

Side Effect

2.23. **SYS_NUMOFALARM**

Number of alarm output.

Type unsigned char

Values

Comment
Read-only

Side Effect

2.24. **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	

2.25. **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

2.26. **SYS_INTRA_Q**

Set Min QP of I frame.

Type unsigned char

Values

10 ~ 35

Small value: larger I frame

Comment

2.27. **SYS_OPENSLLVERSION**

OpenSSL version.

Type 32bytes array

Values

Null terminated String, max 32 characters

Comment

Read-only

2.28. **SYS_LOGEXCLUDEITEM**

Set exclude log item.

Type unsigned short

Values

0

Include Everything

1

Exclude User Log

2

Exclude Backup Log

4

Exclude Account Log

8

Exclude Environment Log

16

Exclude System Log

32

Exclude ETC Log

64

Exclude PTZ Log

128

Exclude Connection Log

Multiple actions can be specified using bitwise OR-ing.

Comment

Default: 0

3. Video Configuration

3.1. **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

3.2. **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

3.3. **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

3.4. 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

3.5. VID_BANDWIDTH

Video encoding bandwidth

Type unsigned short

Values

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

0 ~2000 Duplex mode (ANT-3300 only)

Comment

Valid only when SYS_MODE is Encoder Duplex.

Valid only when VID_PREFERENCE is set to Bitrate.

Side Effect

3.6. 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

3.7. VID MDTHRESHOLD

Motion detection sensitivity

Type	unsigned char
------	---------------

Values

$0 \sim 10$ The smaller, the more sensitive

Comment

Valid only when SYS_MODE is Encoder or Duplex.

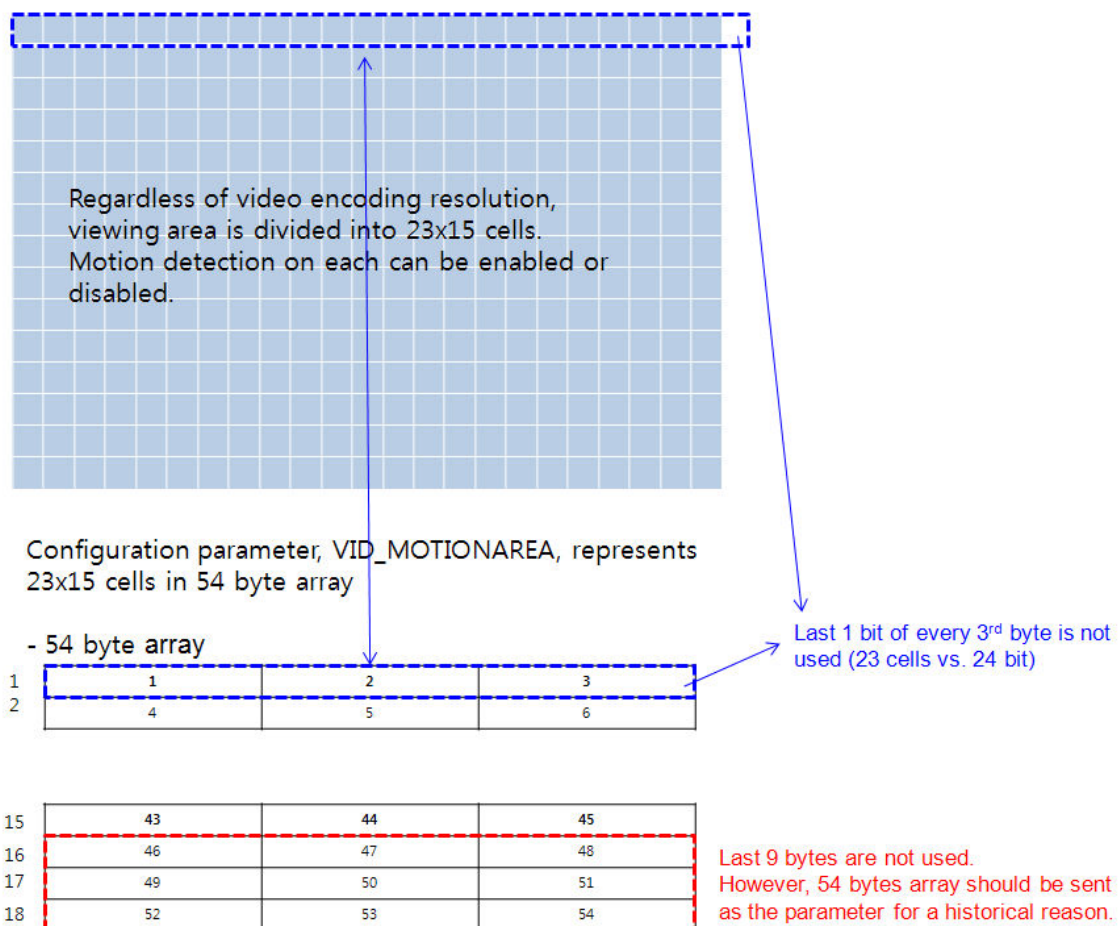
Side Effect

3.8. VID MOTIONAREA

Motion detection area

Type	Array of 54 unsigned char
-------------	---------------------------

Values



Comment

Valid only when SYS MODE is Encoder or Duplex.

Side Effect

3.9. VID MOTIONREGION

Motion detection area

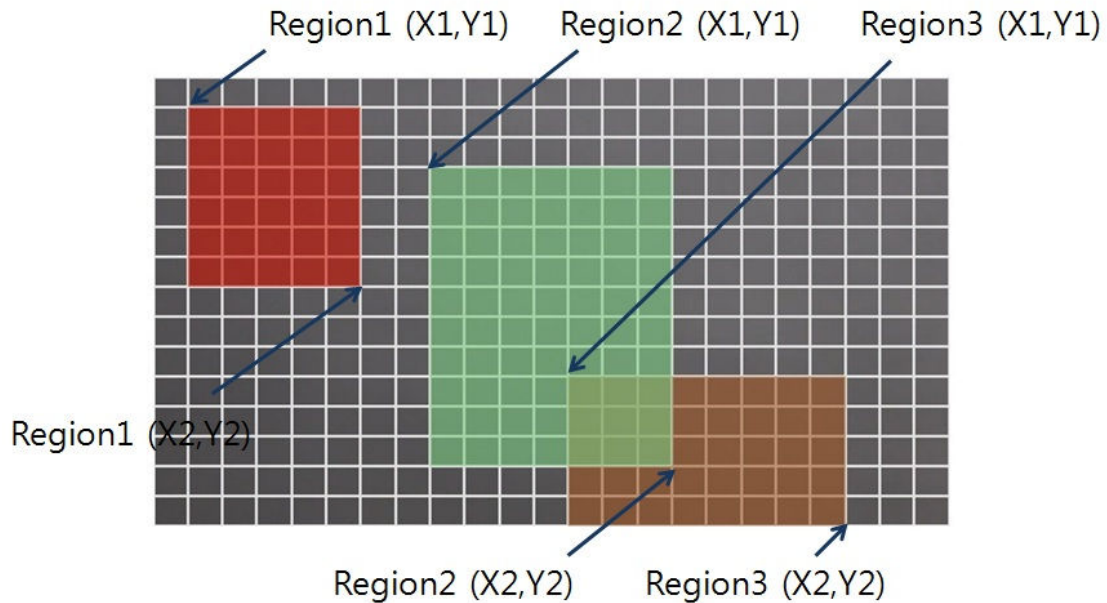
Type Array of 32 unsigned char
Values

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

3.10. **VID BRIGHTNESS**

3.11. **VID CONTRAST**

3.12. **VID HUE**

3.13. **VID SATURATION**

Video input color property

Type unsigned char

Values

0 ~ 100

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

3.14. **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

3.15. **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

3.16. **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

3.17. **VID_MOTIONENABLE**

Enable or disable motion detection

Type unsigned char

Values

0	Disable
1	Enable

Comment

Side Effect

3.18. **VID_INFODISPID**

Display system ID in OSD of web viewer

Type unsigned char

Values

0	Disable
1	Enable

Comment

Side Effect

3.19. **VID_INFODISPTIME**

Display current time in OSD of web viewer

Type unsigned char

Values

0	Disable
1	Enable

Comment

Side Effect

3.20. **VID_INFODISPPOSITION**

Position of web viewer OSD

Type unsigned char

Values

0	Bottom
1	Top
Comment	
Side Effect	

3.21. **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

3.22. **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

3.23. **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

3.24. **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

3.25. **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

3.26. **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

3.27. **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

3.28. **VID_DUALINTERVAL**

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

3.29. **VID_USETRIPLE1**

3.30. **VID_USETRIPLE2**

Use triple and quaduple encoding

Type unsigned char

Values

0 off

1 on

Comment

Valid only when SYS_MODE is Encoder or Duplex.

Side Effect

3.31. **VID_TRIPLEALGORITHM1**

3.32. **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

3.33. **VID_TRIPLEPREFERENCE1**

3.34. **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

3.35. **VID_TRIPLERESOLUTION1**

3.36. **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

3.37. **VID_TRIPLEFRAMERATE1**

3.38. **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

3.39. **VID_TRIPLEQUALITY1**

3.40. **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

3.41. **VID_TRIPLEBANDWIDTH1**

3.42. **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

3.43. **VID_TRIPLEIINTERVAL1**

3.44. **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

3.45. **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

3.46. **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

3.47. **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

3.48. **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

3.49. **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

3.50. **VID_CURENCBITRATE**

3.51. **VID_CURDECBITRATE**

3.52. **VID_DUALCURENCBITRATE**

3.53. **VID_DUALCURDECBITRATE**

3.54. **VID_TRIPLECURENCBITRATE1**

3.55. **VID_TRIPLECURDECBITRATE1**

3.56. **VID_TRIPLECURENCBITRATE2**

3.57. **VID_TRIPLECURDECBITRATE2**

Read current encode/decode bitrate

Type unsigned long

Values

0 ~ kbps

Comment

Read only

Side Effect

3.58. **VID_CURENCFPS**

3.59. **VID_CURDECFPS**

3.60. **VID_DUALCURENCFPS**

3.61. **VID_DUALCURDECFPS**

3.62. **VID_TRIPLECURENCFPS1**

3.63. **VID_TRIPLECURDECFPS1**

3.64. **VID_TRIPLECURENCFPS2**

3.65. **VID_TRIPLECURDECFPS2**

Read current encode/decode frame rate

Type unsigned long

Values

0 ~ frames

Comment

Read only

Side Effect

3.66. **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

3.67. **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

3.68. **VID_TRIPLESACLEENABLE1**

3.69. **VID_TRIPLESACLEENABLE2**

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

ANT-35000.

Side Effect

3.70. VID_CAPRESOLUTION

3.71. VID_CAPDUALRESOLUTION

3.72. VID_CAPTRIPLERESOLUTION1

3.73. 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

3.74. **VID_CAPBANDWIDTHMAX**

3.75. **VID_CAPBANDWIDTHMIN**

3.76. **VID_CAPDUALBANDWIDTHMAX**

3.77. **VID_CAPDUALBANDWIDTHMIN**

3.78. **VID_CAPTRIPLEBANDWIDTHMAX1**

3.79. **VID_CAPTRIPLEBANDWIDTHMIN1**

3.80. **VID_CAPTRIPLEBANDWIDTHMAX2**

3.81. **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

3.82. **VID_CAPFRAMERATEMAX**

3.83. **VID_CAPFRAMERATEMIN**

3.84. **VID_CAPDUALFRAMERATEMAX**

3.85. **VID_CAPDUALFRAMERATEMIN**

3.86. **VID_CAPTRIPLEFRAMERATEMAX1**

3.87. **VID_CAPTRIPLEFRAMERATEMIN1**

3.88. **VID_CAPTRIPLEFRAMERATEMAX2**

3.89. **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

3.90. **VID_INPUTCOLORFORMAT**

Select input color format of HDMI input

Type unsigned char

Values

0 RGB
1 YPbPr

Comment

ANT-33000 series only.

Side Effect
3.91. VID_INPUTDEINTERLACE

Enable input deinterlace if interlaced video

Type unsigned char

Values

0	off
1	on

Comment
Side Effect
3.92. VID_H.264PROFILE
3.93. VID_DUALH.264PROFILE
3.94. VID_TRIPLEH.264PROFILE1
3.95. 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
3.96. VID_MDDISABLEONPTZ

Disable motion detection when PTZ.

Type unsigned char

Values

0	off
1	on (disable)

Comment
Side Effect
3.97. VID_DUALROIDISABLE
3.98. VID_TRIPLEROIDISABLE1
3.99. VID_TRIPLEROIDISABLE2

Disable ROI.

Type unsigned char

Values

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

Comment
Side Effect

3.100. **VID_ROIPos1X**

3.101. **VID_ROIPos1Y**

3.102. **VID_ROIPos1W**

3.103. **VID_ROIPos1H**

3.104. **VID_ROIPos2X**

3.105. **VID_ROIPos2Y**

3.106. **VID_ROIPos2W**

3.107. **VID_ROIPos2H**

3.108. **VID_ROIPos3X**

3.109. **VID_ROIPos3Y**

3.110. **VID_ROIPos3W**

3.111. **VID_ROIPos3H**

Set ROI X, Y, WIDTH, HEIGHT.

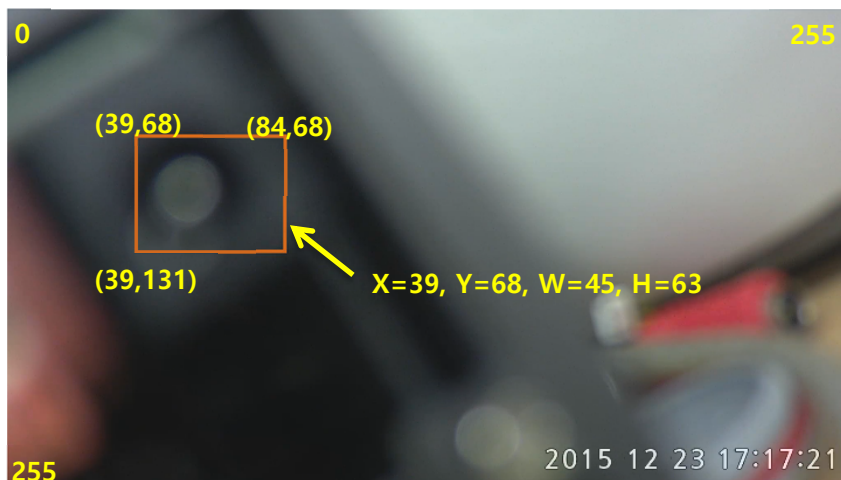
Type unsigned char

Values

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

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

Comment



Side Effect

3.112. **VID_CROPENABLE**

Enable Crop.

Type unsigned char

Values

0 Stretch

1 Crop

Comment

Applied Model

ANT-45000(Decoder Mode), ANT-36000

Side Effect

4. Audio Configuration

4.1. 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

4.2. AUD ALGORITHM

Audio encoding/decoding algorithm

Type unsigned char

Values

0	G.711 mu-law
1	AAC

Comment

Side Effect

All Link disconnect

4.3. 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

4.4. AUD GAIN

Audio input gain

Type unsigned char

Values

0~31

Comment

Side Effect

4.5. AUD RECVPORT

Audio receive port for general purpose

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

4.6. **AUD_CURENCBITRATE**

4.7. **AUD_CURDECBITRATE**

Read current encode/decode bitrate

Type unsigned long

Values

0 ~ kbps

Comment

Read only

Side Effect

5. **Network Configuration**

5.1. **NET_LOCALIPMODE**

Local IP mode

Type unsigned char

Values

0 fixed IP

1 DHCP

Comment

Side Effect

System reboot

5.2. **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

5.3. **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

5.4. **NET_LOCALIP**

5.5. **NET_LOCALGATEWAY**

5.6. **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

5.7. **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

5.8. **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

5.9. **NET_DNSIP**

5.10. **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

5.11. **NET DDNSREGISTER**

DDNS server to use

Type unsigned char

Values

0	Off
1	TrueDNS
2	Dyn-DNS

Comment
Side Effect

5.12. **NET BASEPORT**

Base port

Type unsigned short

Values

1 ~ 65535 Port number

Comment
Side Effect

System reboot

5.13. **NET HTTPPORT**

HTTP port

Type unsigned short

Values

1 ~ 65535 Port number

Comment
Side Effect

5.14. **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

5.15. **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

5.16. **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

5.17. **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

5.18. **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

5.19. **NET_DYDNSID**

DynDNS ID

Type 16bytes array

Values

Null terminated String, Max 15 characters

Comment

Valid when NET_DDNSREGISTER is Dyn-DNS.

Side Effect

5.20. **NET_DYDNSPASSWD**

DynDNS Password

Type 16bytes array

Values

Null terminated String, Max 15 characters

Comment

Valid when NET_DDNSREGISTER is Dyn-DNS..

Side Effect

5.21. **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

5.22. **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

5.23. **NET_RTSPPORT**

RTSP port

Type unsigned short

Values

1 ~ 65535	Port number
-----------	-------------

Comment
Side Effect

5.24. **NET_USERTPSESSION**

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

Type unsigned char

Values

0	Off
1	On

Comment
Side Effect

5.25. **NET RTPSESSIONPORT**

RTP Session port

Type unsigned short

Values

1 ~ 65535	Port number
-----------	-------------

Comment
Side Effect

5.26. **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

5.27. **NET RTPSESSIONFILE**

SDP file name

Type 32bytes array

Values *Null terminated String, Max 31 characters*
Comment
Side Effect

5.28. **NET RTPSESSIONIP**

RTP Session IP

Type unsigned long

Values *IP address* Big-endian

Comment
Side Effect

5.29. **NET SNMPTRAPIP**

Destination IP address for SNMP trap

Type unsigned long

Values *IP address* Big-endian

Comment
Side Effect

5.30. **NET SNMPTRAPPORT**

Destination Port number for SNMP trap

Type unsigned short

Values *1 ~ 65535* Port number

Comment
Side Effect

5.31. **NET SNMPPORT**

Listen Port number for SNMP agent

Type unsigned short

Values *1 ~ 65535* Port number

Comment
Side Effect

5.32. **NET USESS**

Connect to remote system via streaming server

Type unsigned char

Values

0	Off
1	On

Comment
Side Effect

5.33. **NET SSIP**

IP address of the streaming server

Type unsigned long
Values
IP address Big-endian
Comment
Side Effect

5.34. **NET_SSSPORT**

Connection Port number of the streaming server
Type unsigned short
Values
1 ~ 65535 Port number
Comment
Side Effect

5.35. **NET_SSUSER**

User name to connect to the streaming server
Type 16bytes array
Values
Null terminated String, Max 15 characters
Comment
Side Effect

5.36. **NET_SSPASS**

Password to connect to the streaming server
Type 16bytes array
Values
Null terminated String, Max 15 characters
Comment
Side Effect

5.37. **NET_REMOTEPORT**

Base port of the remote system to connect
Type unsigned short
Values
1 ~ 65535 Port number
Comment
Side Effect

5.38. **NET_USERTSPAUTH**

Enable authentication on RTSP connection
Type unsigned char
Values

0	Off
1	On

Comment
Side Effect

5.39. **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

5.40. **NET_USEHTTPAPIAUTH**

Enable authentication on HTTPAPI connection

Type unsigned char

Values

0	Off
1	On

Comment
Side Effect

5.41. **NET_UPNPENABLE**

Enable responding UPNP based discovery

Type unsigned char

Values

0	Off
1	On

Comment
Side Effect

5.42. **NET_ZEROCONFENABLE**

Enable responding zeroconf based discovery

Type unsigned char

Values

0	Off
1	On

Comment
Side Effect

5.43. **NET_WSDISCOVERYENABLE**

Enable responding WS Discovery based discovery

Type unsigned char

Values

0	Off
1	On

Comment
Side Effect

5.44. **NET_HTTPSPORT**

HTTPS port

Type unsigned short

Values

1 ~ 65535 Port number

Comment
Side Effect

5.45. **NET_IPV6LINKLOCALADDRESS**

IPv6 link local address

Type 64bytes array

Values *Null terminated String, Max 63 characters*

Comment

Read only

Side Effect

5.46. **NET_TTL**

TTL for the IP

Type unsigned char

Values 0 ~ 255

Comment

Side Effect

5.47. **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

5.48. **NET_QOSENABLE**

Enable QOS.

Type unsigned char

Values

0	Off
1	On

Comment

Side Effect

5.49. **NET_DSCP**

Set DSCP for QOS.

Type unsigned char

Values 0 ~ 63

Comment

Side Effect

5.50. **NET_SSLENABLE**

Enable SSL.

Type unsigned char

Values

0	Off
---	-----

1 On
Comment
Side Effect

5.51. **NET SSLCRYPTO**

Enable SSL Crypto.
Type unsigned char
Values
0 Off
1 On
Comment
Side Effect

5.52. **NET SSLUSER**

Set SSL User ID.
Type 16bytes array
Values
Null terminated String, Max 15 characters
Comment
Side Effect

5.53. **NET SSLPASS**

Set SSL Password.
Type 16bytes array
Values
Null terminated String, Max 15 characters
Comment
Side Effect

5.54. **NET SSLAddress**

Set SSL Address.
Type 32bytes array
Values
Null terminated String, Max 31 characters
Comment
Side Effect

5.55. **NET SSLPort**

Set SSL Port.
Type unsigned short
Values
1 ~ 65535 Port number
Comment
Side Effect

5.56. **NET IPFILTERMODE**

Set IP Filter Mode.
Type unsigned char
Values
0 Allow all
1 Deny all

Comment

Allow or Deny all connections except addresses in the list

Side Effect

5.57. **NET IPFILTERIPUSE00 ~ IPFILTERIPUSE19**

Enable each address list

Type unsigned char

Values

0	Off
1	On

Comment

Side Effect

5.58. **NET IPFILTERIPBEGIN00 ~ IPFILTERIPBEGIN19**

First IP Address of each list.

Type unsigned int

Values

<i>IP address</i>	Big-endian
-------------------	------------

Comment

Side Effect

5.59. **NET IPFILTERIPEND00 ~ IPFILTERIPEND19**

Last IP Address of each list.

Type unsigned int

Values

<i>IP address</i>	Big-endian
-------------------	------------

Comment

Side Effect

6. Serial Configuration

6.1. **SER PROTOCOL 1**

6.2. **SER PROTOCOL 2**

6.3. **SER PROTOCOL 3**

6.4. **SER PROTOCOL 4**

Set type of serial port

Type unsigned char

Values

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

Comment

ANT-3300	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

6.5. **SER_BITRATE 1**

6.6. **SER_BITRATE 2**

6.7. **SER_BITRATE 3**

6.8. **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

6.9. **SER_DATABIT 1**

6.10. **SER_DATABIT 2**

6.11. **SER_DATABIT 3**

6.12. **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

6.13. **SER_PARITY 1**

6.14. **SER_PARITY 2**

6.15. **SER_PARITY 3**

6.16. **SER_PARITY 4**

Set parity of serial port

Type unsigned char

Values

0	None
---	------

1	Even
2	Odd

Comment
Side Effect

6.17. **SER_STOPBIT_1**

6.18. **SER_STOPBIT_2**

6.19. **SER_STOPBIT_3**

6.20. **SER_STOPBIT_4**

Set stop bit of serial port

Type unsigned char

Values

0 1 bit

1 2 bit

Comment
Side Effect

6.21. **SER_SENSORTYPE_1**

6.22. **SER_SENSORTYPE_2**

6.23. **SER_SENSORTYPE_3**

6.24. **SER_SENSORTYPE_4**

Set contact type of sensor device

Type unsigned char

Values

0 Off

1 Normal-Open

2 Normal-Close

Comment

ANT-3300 : SER_SENSORTYPE_1 and SER_SENSORTYPE_2 are valid,

TCAM series : only SER_SENSORTYPE_1 is valid

Side Effect

6.25. **SER_PTZTYPE**

PTZ type

Type unsigned char

Values

0 None

1 Sungjin

2 Fine

3 *Pelco-D*

4 *Pelco-P*

5 *Scandomell*

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

6.26. **SER_PTZID**

PTZ ID

Type unsigned char

Values

0~255

Comment
Side Effect

6.27. **SER_PTZPORT**

Serial port to use for PTZ control

Type unsigned char

Values

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

Comment

ANT-3300 only

Side Effect

6.28. **SER_SEN1SCHESUN** ~ **SER_SEN1SCHESAT**

6.29. **SER_SEN2SCHESUN** ~ **SER_SEN2SCHESAT**

6.30. **SER_SEN3SCHESUN** ~ **SER_SEN3SCHESAT**

6.31. **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

ANT-3300 : 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

6.32. 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

6.33. SER_POSSESSIONTIME

Set serial port possession time of each client.

Type unsigned char

Values

0 Off

1~10 Seconds

Comment

Side Effect

7. Event Configuration

7.1. EVT_LOCALSENSOR_1

7.2. EVT_LOCALSENSOR_2

7.3. EVT_LOCALSENSOR_3

7.4. 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

7.5. EVT_REMOTESENSOR 1

7.6. EVT_REMOTESENSOR 2

7.7. EVT_REMOTESENSOR 3

7.8. 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

7.9. EVT_LOCALLOSS

7.10. 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

7.11. EVT_LOCALMOTION

7.12. 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

7.13. 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

7.14. EVT_LOCALAUDIODETECTION

7.15. 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

7.16. **EVT_LINECROSSING**

7.17. **EVT_INTRUSION**

7.18. **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

7.19. **EVT_BEEPDURATION**

7.20. **EVT_RELAYDURATION_1**

7.21. **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

7.22. **EVT_PRETIME**

7.23. **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

7.24. **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

7.25. **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

7.26. **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

7.27. **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

7.28. **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

7.29. **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

7.30. **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

7.31. **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

7.32. **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

7.33. **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

7.34. **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

7.35. **EVT_PRESETLOCALSENSOR_1**

7.36. **EVT_PRESETLOCALSENSOR_2**

7.37. **EVT_PRESETLOCALSENSOR_3**

7.38. **EVT_PRESETLOCALSENSOR_4**

Set preset position on local sensor trigger

Type unsigned short

Values

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

Comment

ANT-3300 : EVT_PRESETLOCALSENSOR_1 and
EVT_PRESETLOCALSENSOR_2 are valid
TCAM series : EVT_PRESETLOCALSENSOR_1 is valid

Side Effect

7.39. **EVT_PRESETREMOTESENSOR_1**

7.40. **EVT_PRESETREMOTESENSOR_2**

7.41. **EVT_PRESETREMOTESENSOR_3**

7.42. **EVT_PRESETREMOTESENSOR_4**

Set preset position on remote sensor trigger

Type unsigned short

Values

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

Comment

ANT-3300 : EVT_PRESETREMOTESENSOR_1 and
EVT_PRESETREMOTESENSOR_2 are valid
TCAM series : EVT_PRESETREMOTESENSOR_1 is valid

Side Effect

7.43. **EVT_PRESETLOCALLOSS**

7.44. **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

7.45. **EVT_PRESETLOCALMOTION**

7.46. **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

7.47. **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

7.48. **EVT_PRESETLOCALAUDIODETECTION**

7.49. **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

7.50. **EVT_PRESETLINECROSSING**

7.51. **EVT_PRESETINTRUSION**

7.52. **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

7.53. **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

7.54. **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

7.55. **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

7.56. **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

7.57. **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

7.58. **EVT_OSDLOCALSENSOR_1**

7.59. **EVT_OSDLOCALSENSOR_2**

7.60. **EVT_OSDLOCALSENSOR_3**

7.61. **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

ANT-3300 : EVT_PRESETLOCALSENSOR_1 and
EVT_PRESETLOCALSENSOR_2 are valid
TCAM series : EVT_PRESETLOCALSENSOR_1 is valid

Side Effect

7.62. **EVT OSDREMOTESENSOR 1**

7.63. **EVT OSDREMOTESENSOR 2**

7.64. **EVT OSDREMOTESENSOR 3**

7.65. **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

ANT-3300 : EVT_PRESETREMOTESENSOR_1 and
EVT_PRESETREMOTESENSOR_2 are valid
TCAM series : EVT_PRESETREMOTESENSOR_1 is valid

Side Effect

7.66. **EVT OSDLOCALLOSS**

7.67. **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

7.68. **EVT OSDLOCALMOTION**

7.69. **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

7.70. **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

7.71. **EVT OSDLOCALAUDIODETECTION**

7.72. **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

7.73. **EVT OSDLINECROSSING**

7.74. **EVT OSDINTRUSION**

7.75. **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

7.76. EVT_HTTPLOCALSENSOR_1

7.77. EVT_HTTPLOCALSENSOR_2

7.78. EVT_HTTPLOCALSENSOR_3

7.79. 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

ANT-3300 : EVT_PRESETLOCALSENSOR_1 and
EVT_PRESETLOCALSENSOR_2 are valid
TCAM series : EVT_PRESETLOCALSENSOR_1 is valid

Side Effect

7.80. EVT_HTTPREMOTESENSOR_1

7.81. EVT_HTTPREMOTESENSOR_2

7.82. EVT_HTTPREMOTESENSOR_3

7.83. 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

ANT-3300 : EVT_PRESETREMOTESENSOR_1 and
EVT_PRESETREMOTESENSOR_2 are valid
TCAM series : EVT_PRESETREMOTESENSOR_1 is valid

Side Effect

7.84. EVT_HTTPLOCALLOSS

7.85. 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

7.86. **EVT_HTTPLOCALMOTION**

7.87. **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

7.88. **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

7.89. **EVT_HTTPLOCALAUDIODETECTION**

7.90. **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

7.91. **EVT_HTTPLINECROSSING**

7.92. **EVT_HTTPINTRUSION**

7.93. **EVT_HTTPPTAMPERING**

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	

7.94. **EVT_USERDEFINEDEVENT1**

7.95. **EVT_USERDEFINEDEVENT2**

Choose user defined event.

Type	unsigned short
Values	
0	None
1	Beep
2	Alarm1
4	Alarm2
8	Email
16	FTP
32	Preset
64	Google Drive
128	OSD
256	HTTP
512	Alarm3
1024	Alarm4

Multiple actions can be specified using bitwise OR-ing.

Comment
Default: 0

7.96. **EVT_USERDEFINEDEVENTTYPE1**

7.97. **EVT_USERDEFINEDEVENTTYPE2**

Choose user defined event type.

Type	unsigned char
Values	
0	None
1	Day to Night
2	Night to Day
3	Time Changed

Comment
Default: 0

7.98. **EVT_PRESETUSERDEFINEDEVENT1**

7.99. **EVT_PRESETUSERDEFINEDEVENT2**

If you have select preset(user defined event), set preset number or pattern number or swing number or group number.

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

But swings and patterns are PTZ camera only.

Comment

Default: 0

7.100. **EVT OSDUSERDEFINEDEVENT1**

7.101. **EVT OSDUSERDEFINEDEVENT2**

Select OSD.

Type unsigned char

Values

0	Off
1	Event OSD1
2	Event OSD2
3	Event OSD3
4	Event OSD4

Comment

Default: 0

7.102. **EVT HTTPUSERDEFINEDEVENT1**

7.103. **EVT HTTPUSERDEFINEDEVENT2**

Select HTTP action.

Type unsigned char

Values

0	Off
1	Http Action1
2	Http Action2
3	Http Action3
4	Http Action4

Comment

Default: 0

8. Display Configuration

8.1. **DIS LOCALSENSOR**

8.2. **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

8.3. **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

8.4. **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

8.5. **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

8.6. **DIS LEDVIEW**

Usage of Data LED

Type unsigned char

Values

0	Video
1	Audio
2	Serial

Comment

ANT-3300 only

Side Effect

9. **User Configuration**

User configuration is supported only in HTTP API.

9.1. **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

9.2. 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

9.3. USR_MODPASS

Modify Password of the user

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:1234:4321

9.4. 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

9.5. 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	<i>user</i>
	3	<i>guest</i>

Comment
Read-only

Side Effect

String for HTTP API
Read : USR_LIST=admin:0:testuser:1:guest:3

9.6. **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

10. Record Configuration

10.1. **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.

10.2. **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

10.3. **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

10.4. **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

10.5. **REC OVERWRITE**

Enable or disable overwrite
Type unsigned char
Values
0 Disable
1 Enable
Comment Valid only when SYS_MODE is Encoder.
Side Effect

10.6. **REC EVTTYPE1**

10.7. **REC EVTTYPE2**

10.8. **REC EVTTYPE3**

10.9. **REC EVTTYPE4**

Make event type for setting schedule table
Type unsigned char
Values
1 (0x01) Sensor 1
2 (0x02) Sensor 2 (ANT-3300 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

10.10. REC PRETIME

10.11. 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

10.12. 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

10.13. 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

10.14. 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

10.15. **REC_DISKINFO**

Read DiskInfo

Type
Values
Comment

-1 : Error

Side Effect
String for HTTP API

Read : REC_DISKINFO=0

10.16. **REC_MANUALREC**

Set Manual record

Type unsigned char

Values

0	Off
1	On

Comment
Side Effect

10.17. **REC_MAXFILELENGTH**

Set Record File Max Length(Time)

Type unsigned char

Values

Dependent on REC_RECORDFILEFORMAT(0 or 2)

	<u>0 (AVI)</u>	<u>2 (MP4)</u>
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

10.18. **REC_BACKUPTOFTP**

Enable record Backup to FTP

Type unsigned char

Values

0	Off
1	On

Comment
Side Effect

10.19. **REC_ERASEAFTERBACKUP**

Enable erase after ftp backup

Type unsigned char
Values
0 Off
1 On
Comment
Side Effect

10.20. **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

10.21. **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

10.22. **REC_RECORDFILEFORMAT**

Select Record File Format

Type unsigned char

Values

0 AVI
2 MP4

Comment

Side Effect

11. PTZ Configuration

11.1. **PTZ_AUTOPARKINGTIME**

Set auto parking time of speed dome camera.

Type unsigned short

Values

0 off
1 ~ 3600 Seconds

Comment

Applied Model

Side Effect

11.2. **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

11.3. **PTZ_AUTOPARKINGACTION1**

11.4. **PTZ_AUTOPARKINGACTION2**

11.5. **PTZ_AUTOPARKINGACTION3**

11.6. **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

11.7. **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

11.8. **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

11.9. **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

11.10. **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

11.11. **PTZ_GroupxxWITHTRACKING**

Enable Simultaneous Action With Motion Tracking in Group.

Type unsigned char

Values

0

Off

1

On

Comment
Applied Model
Side Effect

11.12. **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

11.13. **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

11.14. **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

11.15. **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

11.16. **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

11.17. **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

11.18. **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

11.19. **PTZ_ExtPTZAddr**

Set PTZ Camera IP Address

Type 32bytes array

Values
IP address Big-endian

Comment

Applied Model

Side Effect

11.20. **PTZ_ExtPTZHttpPort**

Set PTZ Camera http port

Type unsigned short

Values
1 ~ 65535 Port number

Comment

Applied Model

Side Effect

11.21. **PTZ_ExtPTZBasePort**

Set PTZ Camera base port

Type unsigned short

Values
1 ~ 65535 Port number

Comment

Applied Model

Side Effect

11.22. **PTZ_ExtPTZUse**

Use PTZ Linkage

Type unsigned char

Values
0 Off
1 On

Comment

Applied Model

Side Effect

11.23. **PTZ_ExtPTZCentering**

Set centering

Type unsigned char

Values
0 Off
1 On

Comment

Applied Model

Side Effect

11.24. **PTZ_ExtPTZDragandZoom**

Set Drag and Zoom

Type unsigned char
Values
0 Off
1 On
Comment
Applied Model
Side Effect

11.25. **PTZ_ExtPTZAutoMode**

Set Auto Mode
Type unsigned char
Values
0 Off
1 Motion based
2 IVS based
Comment
Applied Model
Side Effect

11.26. **PTZ_ExtPTZZoomEffective**

Set Zoom enable at auto
Type unsigned char
Values
0 Off
1 On
Comment
Applied Model
Side Effect

11.27. **PTZ_ExtPTZPauseDuration**

Set Pause Duration at Auto
Type unsigned char
Values
0 ~ 255 sec
Comment
Applied Model
Side Effect

11.28. **PTZ_AUTO CALIBRATION**

Set auto calibration.
Type unsigned char
Values
0 Off
1 On
Comment
Default: 0

11.29. **PTZ_AUTO CALIBRATION TIME**

Set auto calibration time.
Type unsigned char
Values
0~23 hour
Comment

Default: 0

12. Camera Configuration

12.1. 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

12.2. CAM SONY RGain

12.3. 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

12.4. 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

12.5. 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

12.6. **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

12.7. **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

12.8. **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

12.9. **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

12.10. 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

12.11. 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

12.12. CAM SONY WDR

WDR of Sony Zoom Module applied camera

Type unsigned char

Values

0 Group1* Off Group2*

1 VE On On

Comment

4 Config Set are supported

Group1 : EV7310 or EV7517 or EV7317

Group2 : etc.

Applied Model

Side Effect

12.13. 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

12.14. **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

12.15. **CAM SONY Iris**

Iris of Sony Zoom Module applied camera

Type unsigned char

Values

	<i>Group1*</i>	<i>Group2*</i>
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

12.16. **CAM SONY Shutter**

Shutter of Sony Zoom Module applied camera

Type unsigned char

Values

	<i>Group1*</i>	<i>Group2*</i>
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

12.17. 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

12.18. **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

12.19. **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

12.20. **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

12.21. **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

12.22. **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

12.23. **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

12.24. **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

12.25. **CAM SONY Gamma256stepsPlus**

12.26. **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

12.27. **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

12.28. **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

12.29. **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

12.30. **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
12.31. CAM SONY HighSensitivity

High Sensitivity 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
12.32. 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
12.33. 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

12.34. **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

12.35. **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

12.36. **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

12.37. **CAM SONY ExposureCompensationLevel**

Exposure Compensation Level of Sony Zoom Module applied camera

Type unsigned char

Values

0 ~ 255

Comment

Applied Model

Side Effect

12.38. **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

12.39. **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

12.40. **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

12.41. **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

12.42. **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

12.43. **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

12.44. **CAM SONY FocusOffset**

Focus Offset of Sony Zoom Module applied camera

Type unsigned char

Values
0 ~ 255

Comment
Applied Model
Side Effect

12.45. **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

12.46. 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

12.47. CAM HITACHI RGain

12.48. 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

12.49. 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

12.50. 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
12.51. 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
12.52. 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
12.53. 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
12.54. 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

12.55. **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

12.56. **CAM HITACHI Exposure**

Exposure of Hitachi Zoom Module applied camera

Type unsigned char

Values

	<i>Group 1*</i>	<i>Group 2*</i>
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

12.57. **CAM HITACHI Shutter**

Shutter speed of Hitachi Zoom Module applied camera

Type unsigned char

Values

	<i>Group 1*</i>	<i>Group 2*</i>	<i>Group 3*</i>
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
12.58. 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
12.59. CAM HITACHI AFTType

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
12.60. 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

12.61. 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

12.62. 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

12.63. 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

12.64. 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

12.65. **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

12.66. **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

12.67. **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

12.68. **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

12.69. **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

12.70. **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

12.71. **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

12.72. **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

12.73. **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

12.74. **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

12.75. 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

12.76. 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

12.77. 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

12.78. 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

12.79. 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

12.80. **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

12.81. **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

12.82. **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

12.83. **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

12.84. **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

12.85. **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

12.86. **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

12.87. **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

12.88. **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

12.89. **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
12.90. 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
12.91. 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
12.92. 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
12.93. 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
12.94. 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

12.95. **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

12.96. **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

12.97. **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

12.98. **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

12.99. **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

12.100. **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

12.101. **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

12.102. **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

12.103. **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

12.104. **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

12.105. **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

12.106. **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

12.107. **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

12.108. **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

12.109. **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

12.110. **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

12.111. **CAM P10 WBMODE**

White Balance Mode of Techwin Zoom Module applied camera

Type unsigned char
Values

	<i>Group 1*</i>	<i>Group 2*</i>	<i>Group 3*</i>
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

12.112. 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

12.113. CAM P10 BLC

BLC Mode of Techwin Zoom Module applied camera

Type unsigned char

Values

	<i>Group 1*</i>	<i>Group 2*</i>
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

12.114. 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

12.115. 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

12.116. CAM P10 BLL

BLC Mode of Techwin Zoom Module applied camera

Type unsigned char

Values

		<i>Group 1*</i>	<i>Group 2*</i>
0		<i>Low</i>	<i>Low</i>
1		<i>High</i>	<i>Middle</i>
2		-	<i>High</i>
Comment			
4 Config Set are supported			
Group 1 : SCM3XXX			
Group 2 : etc			
Applied Model			
Side Effect			

12.117. **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

12.118. **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

12.119. **CAM P10 WB RED**

12.120. **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

12.121. **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
12.122. 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
12.123. 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

12.124. **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	<u>1/25(1/30)</u>
12	x4	x4	<u>1/50(1/60)</u>
13	x2	x2	1/100
14	<u>1/25(1/30)</u>	<u>1/50(1/60)</u>	1/150
15	1/50	<u>1/100(1/120)</u>	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

12.125. **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

12.126. **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

12.127. **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

12.128. **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

12.129. **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

12.130. **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

12.131. **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

12.132. **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

12.133. **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

12.134. **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

12.135. **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

12.136. **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

12.137. **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

12.138. **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

12.139. **CAM P10 MAXZOOMSPEED**

Max Zoom Speed of Speed Dome Camera

Type unsigned char

Values

0 ~ 7 step 1 ~ 8

Comment

Applied Model

Side Effect

12.140. **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

12.141. **CAM P10 MAXPOSITIONMOVESPEED**

Set Max Position Move Speed.

Type unsigned char

Values

1 ~ 255

Comment
Applied Model
PTZ Model Only
Side Effect

12.142. **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

12.143. **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

12.144. **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

12.145. **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

12.146. **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

12.147. **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

12.148. **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

12.149. **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

12.150. 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

12.151. 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

12.152. 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

12.153. 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

12.154. **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

12.155. **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

12.156. **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

12.157. **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

12.158. **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

12.159. **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

12.160. **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

12.161. **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

12.162. **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
12.163. 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
12.164. 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
12.165. 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
12.166. 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

12.167. **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

12.168. **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

12.169. **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

12.170. **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

12.171. **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

12.172. 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

12.173. 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

12.174. 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

12.175. **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

12.176. **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

12.177. **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

12.178. **CAM WONWOO Fik**

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

12.179. **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

12.180. **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

12.181. **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

12.182. **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

12.183. **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

12.184. **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

12.185. **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

12.186. **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

12.187. **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
12.188. 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
12.189. 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
12.190. 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
12.191. 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

12.192. **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

12.193. **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

12.194. **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

12.195. **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

12.196. **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

12.197. **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

12.198. **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

12.199. **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

12.200. **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

12.201. **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

12.202. **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

12.203. **CAM NEXT Shutter**

Set Shutter.

Type unsigned char

Values

	Dependent on “BackLight Mode”	
	WDR	Else(Off, BLC, HSBLCL)
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

12.204. 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

12.205. 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

12.206. 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

12.207. CAM NEXT Brightness

Set Brightness.

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

12.208. 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

12.209. 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

12.210. **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

12.211. **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

12.212. **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

12.213. **CAM NEXT BLC Gain**

Set BLC Gain.

Type unsigned char

Values

0	Low
1	Middle
2	High

Comment

4 Config Set are supported

Applied Model

Eagle ISP

Side Effect

12.214. **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

12.215. **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

12.216. **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

12.217. **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

12.218. CAM NEXT WB RGain

12.219. 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

12.220. 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

12.221. 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

12.222. CAM NEXT AGC DN

12.223. 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

12.224. CAM NEXT CDS DN

12.225. 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

12.226. CAM NEXT 2DNR Mode

12.227. 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

12.228. 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

12.229. 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

12.230. 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

12.231. 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

12.232. 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

12.233. 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

12.234. 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

12.235. **CAM NEXT Sharpness**

Set Sharpness.
Type unsigned char
Values
0 ~ 15
Comment
4 Config Set are supported
Applied Model
Eagle ISP
Side Effect

12.236. **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

12.237. **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

12.238. **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

12.239. **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

12.240. **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

12.241. **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

12.242. **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

12.243. **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

12.244. **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

12.245. **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

12.246. **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

12.247. **CAM NEXT GainMG**

12.248. **CAM NEXT GainR**

12.249. **CAM NEXT GainYE**

12.250. **CAM NEXT GainG**

12.251. **CAM NEXT GainCY**

12.252. **CAM NEXT GainB**

12.253. **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

12.254. **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

12.255. **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

12.256. **CAM SONYIS OpenVoltage**

12.257. **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

12.258. **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

12.259. **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

12.260. **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

12.261. 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

12.262. 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

12.263. 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

12.264. CAM SONYIS WDR

Set WRD.

Type unsigned char

Values

0	Off
1	On

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

12.265. 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

12.266. 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

12.267. CAM SONYIS AWB ROffset

12.268. 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

12.269. CAM SONYIS ColorTemperature

Set Color temperature.

Type unsigned char

Values

0 ~ 63

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

12.270. 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

12.271. CAM SONYIS DN AGC DN

12.272. 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

12.273. CAM SONYIS DN CDS DN

12.274. 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

12.275. 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

12.276. **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

12.277. **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

12.278. **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

12.279. **CAM SONYIS Sharpness**

Set Sharpness.

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

12.280. **CAM SONYIS CbGain**

12.281. **CAM SONYIS CrGain**

Set Cb/Cr Gain.

Type unsigned char

Values

0 ~ 255

Comment

4 Config Set are supported

Applied Model

IMX103

Side Effect

12.282. **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

12.283. **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

12.284. **CAM PS DN Adjust DN**

12.285. **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

12.286. **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

12.287. **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

12.288. **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

12.289. **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

12.290. **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

12.291. 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

12.292. 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

12.293. 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

12.294. 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

12.295. **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

12.296. **CAM PS WB RED**

12.297. **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

12.298. **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

12.299. **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

12.300. **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
12.301. 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
12.302. CAM PS GAIN Color Max
12.303. CAM PS GAIN BW Max
12.304. 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

12.305. **CAM PS GAIN Color**

12.306. **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

12.307. **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

12.308. **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

12.309. **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

12.310. **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

12.311. **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

12.312. **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

12.313. **CAM PS ApertureVDirect**

12.314. **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

12.315. **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

12.316. **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

12.317. **CAM PS ATWRed**

12.318. **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

12.319. **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

12.320. **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

12.321. **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

12.322. **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

12.323. **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

12.324. CAM AMBA FLIP HORIZON

12.325. 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

12.326. 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

12.327. CAM AMBA AWB RGAIN

12.328. CAM AMBA AWB GGAIN

12.329. 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

12.330. 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

12.331. 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

12.332. 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

12.333. 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

12.334. 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

12.335. CAM AMBA TDN DAY TH

12.336. 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

12.337. 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

12.338. **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

12.339. **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

12.340. **CAM AMBA CDS DAY TH**

12.341. **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

12.342. **CAM AMBA CURRENT Y**

Get current Y value.

Type unsigned char

Values

Comment

Read only

Applied Model

AMBA ISP.

Side Effect

12.343. **CAM AMBA BRIGHTNESS**

12.344. **CAM AMBA CONTRAST**

12.345. **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

12.346. **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

12.347. **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

12.348. **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

12.349. **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

12.350. **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

12.351. **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=0011222222333333330000

12.352. **CAM NTSC PAL**

Set Input Frequency

Type unsigned int

Values

0	60Hz(NTSC)
1	50Hz(Pal)

Comment
Side Effect

12.353. **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

12.354. **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

12.355. **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

12.356. **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

12.357. **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

12.358. **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

12.359. **CAM_DISPLAYZOOMMAG**

Display Zoom Magnification

Type unsigned char

Values

0	Off
1	On

Comment

Applied Model

PTZ Model only

Side Effect

12.360. **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

12.361. **CAM_SET_NEARLED**

12.362. **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

12.363. **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

12.364. **CAM EXTPTZDISABLE**

Prevent Auto PTZ.

Type unsigned char

Values

0	Off(Allow)
1	On(Prevent)

Comment

Applied Model

PTZ Model only

Side Effect

12.365. **CAM CODEC SATURATION**

Set Saturation

Type unsigned char

Values

1 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

12.366. **CAM CODEC CONTRAST**

Set Contrast

Type unsigned char

Values

1 ~ 255

Comment

4 Config Set are supported

Applied Model

Side Effect

12.367. CAM CODEC BRIGHTNESS

Set Brightness

Type unsigned char

Values
1 ~ 255

Comment
4 Config Set are supported

Applied Model
Side Effect

12.368. CAM CODEC NF MODE

Set Noise Filter Mode

Type unsigned char

Values

0	Off
1	Normal 2D or On
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

TCB-123xA was support only 0(off),1(On)

Side Effect

12.369. CAM CODEC NFPARAM1

Set "Normal 2D/3D" Strength.

Type unsigned char

Values
0 ~ 200

Comment
4 Config Set are supported

Applied Model
Side Effect

12.370. CAM CODEC NFPARAM2

Set "Strong/Blend" Strength.

Type unsigned char

Values
0 ~ 30 or 0 ~ 100

Comment
4 Config Set are supported

Applied Model

TCB-123xA was support 0~100

Side Effect

12.371. CAM CODEC NFPARAM3

Set Adaptive Mode.

Type unsigned char

Values

0 Off
1 On

Comment

4 Config Set are supported

Applied Model
Side Effect

12.372. **CAM CODEC NFPARAM4**

Set Adaptive Strong Strength.

Type unsigned char

Values

0 ~ 2

Comment

4 Config Set are supported

Applied Model
Side Effect

12.373. **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

12.374. **CAM CODEC EDGEPARAM1**

Set Edge Enhancement Sensitivity.

Type unsigned char

Values

0 ~ 7

Comment

4 Config Set are supported

Applied Model
Side Effect

12.375. **CAM CODEC EDGEPARAM2**

Set Edge Enhancement Strength.

Type unsigned char

Values

0 ~ 31

Comment

4 Config Set are supported

Applied Model
Side Effect

12.376. **CAM CODEC EDGEPARAM4**

Set Edge Strength.

Type unsigned char

Values

0 ~ 100

Comment

4 Config Set are supported

Applied Model : **TCB-123xA**

Side Effect

12.377. **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

12.378. **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

12.379. **CAM HI TDN MODE**

Set Day&Night Mode.

Type unsigned char

Values

	<i>Group1*</i>	<i>Group2*</i>
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

12.380. **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

12.381. 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

12.382. 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

12.383. 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

12.384. CAM HI IRIS VALUE

Set IRIS active time.

Type unsigned char

Values

1	1
2	2
4	4
8	8
16	16
32	32
At TCB-123XA	
0	F 1.6
60	F 2.0

86	<i>F 2.4</i>
105	<i>F 2.8</i>
121	<i>F 3.4</i>
136	<i>F 4.0</i>
149	<i>F 4.8</i>
161	<i>F 5.6</i>
172	<i>F 6.8</i>
182	<i>F 8.0</i>
250	<i>Close</i>

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

12.385. **CAM HI DSS MODE NIGHT**

Set slow shutter mode.

Type unsigned char

Values

0	<i>Auto</i>
1	<i>On</i>
2	<i>Off</i>

Comment

Default: 1
4 Config Set are supported

Applied Model
Side Effect

12.386. **CAM HI AE MODE**

Set Auto Exposure mode.

Type unsigned char

Values

0	<i>Off</i>
1	<i>BLC</i>
2	<i>WDR</i>

Comment

Default: 0
4 Config Set are supported

Applied Model
Side Effect

12.387. **CAM HI AE AGC LIMIT**

Set exposure Target

Type unsigned char

Values

1 ~ 100

Comment

Default: 35
4 Config Set are supported

Applied Model
Side Effect

12.388. CAM HI AE TARGET

Set exposure Speed

Type unsigned char

Values

1 ~ 10

Comment

Default: 1

4 Config Set are supported

Applied Model

Side Effect

12.389. 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

12.390. CAM HI CDS DAY TH

Set CDS Night -> Day Threshold.

Type unsigned char

Values

3 ~ 30 or 0~255

Comment

Default: 11

4 Config Set are supported

Applied Model

TCB-123xA was support 0~255

Side Effect

12.391. CAM HI CDS NIGHT TH

Set CDS Day -> Night Threshold.

Type unsigned char

Values

3 ~ 30 or 0~255

Comment

Default: 5

4 Config Set are supported

Applied Model

TCB-123xA was support 0~255

Side Effect

12.392. 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
12.393. 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

12.394. CAM HI AWB MODE

Set Auto White Balance mode.

Type

unsigned char

Values

0 Normal or Auto Tracing White

1 Manual

10 Underwater

At TCV-123xA

2 Auto White

Comment

Default: 0

4 Config Set are supported

12.395. CAM HI AWB RGAIN

Set Manual Red Gain For WB

Type

unsigned char

Values

0~255

Comment

Default: 16

4 Config Set are supported

Applied Model
Side Effect
12.396. CAM HI AWB GGAIN

Set Manual Green Gain For WB

Type

unsigned char

Values

0~255

Comment

Default: 16

4 Config Set are supported

Applied Model
Side Effect

12.397. CAM HI AWB BGAIN

Set Manual Blue Gain For WB

Type unsigned char

Values
0~255

Comment

Default: 16

4 Config Set are supported

Applied Model

Side Effect

12.398. 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

12.399. CAM HI DSS VALUE DAY

12.400. 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

12.401. CAM HI AE MAX

Set sensor's analog gain.

Type unsigned char

Values
1 ~ 30

Comment

Default: 30

4 Config Set are supported

12.402. 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

12.403. **CAM HI FOCUS LIMIT**

Set Focus Limit
Type unsigned char
Values

1	10cm
10	1m
30	3m
50	5m
70	7m
100	10m

Comment Default: 1(10cm)
 4 Config Set are supported
Applied Model
 TCB-123X was supported
Side Effect

12.404. **CAM HI DZOOM MODE**

Set Digital Zoom mode
Type unsigned char
Values

0	Off
1	On

Comment Default: 0
 4 Config Set are supported
Applied Model
 TCB-123X was supported
Side Effect

12.405. **CAM HI DIS MODE**

Set image Stabilizer mode
Type unsigned char
Values

0	Off
1	On

Comment Default: 0
 4 Config Set are supported
Applied Model
 TCB-123X was supported
Side Effect

12.406. **CAM MASKPOS0X ~ CAM MASKPOS3X**

12.407. **CAM MASKPOS0Y ~ CAM MASKPOS3Y**

12.408. **CAM MASKPOS0W ~ CAM MASKPOS3W**

12.409. **CAM MASKPOS0H ~ CAM MASKPOS3H**

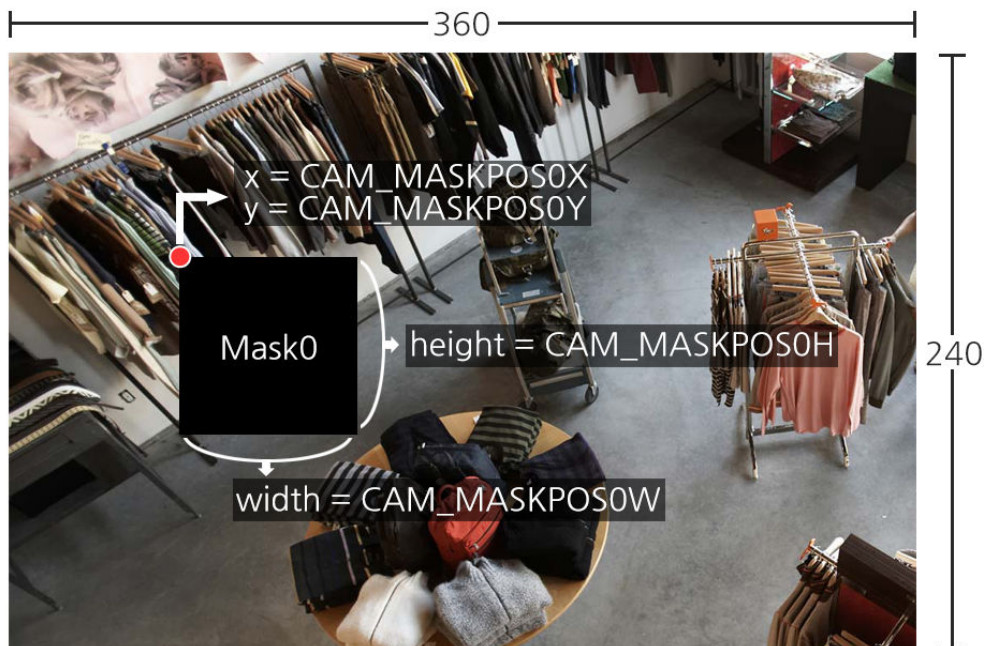
Privacy Mask position (x, y, whdth, height)

Type unsigned short

Values

0 ~360 (CAM_MASKPOSnX, CAM_MASKPOSnW)

0 ~240 (CAM_MASKPOSnY, CAM_MASKPOSnH)



Comment

Applied Model

Supported models only.

Side Effect

13. ETC parameters

13.1. **ETC USEROSDENABLE1**

13.2. **ETC USEROSDENABLE2**

13.3. **ETC USEROSDENABLE3**

13.4. **ETC USEROSDENABLE4**

Enable or disable user OSD

Type	unsigned char
Values	
0	Disable
1	Enable
Comment	
Side Effect	

13.5. **ETC_USEROSDSTRING1**

13.6. **ETC_USEROSDSTRING2**

13.7. **ETC_USEROSDSTRING3**

13.8. **ETC_USEROSDSTRING4**

User OSD string.

Type 64bytes array

Values *Null terminated String, Max 20 characters including Korean.*

Comment

Side Effect

13.9. **ETC_USEROSDX1**

13.10. **ETC_USEROSDX2**

13.11. **ETC_USEROSDX3**

13.12. **ETC_USEROSDX4**

13.13. **ETC_USEROSDY1**

13.14. **ETC_USEROSDY2**

13.15. **ETC_USEROSDY3**

13.16. **ETC_USEROSDY4**

X-coordinate/Y-coordinate of user OSD

Type unsigned short

Values 0 ~ 1000 coordinate

Comment

Side Effect

13.17. **ETC_USEROSDFONTSIZE1**

13.18. **ETC_USEROSDFONTSIZE2**

13.19. **ETC_USEROSDFONTSIZE3**

13.20. **ETC_USEROSDFONTSIZE4**

Font size of user OSD

Type unsigned char

Values

12 ~ 48

font size

Comment
Side Effect

13.21. **ETC_USEROSDCOLOR1**

13.22. **ETC_USEROSDCOLOR2**

13.23. **ETC_USEROSDCOLOR3**

13.24. **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

13.25. **ETC_EVENTOSDDISPLAYNAME0**

13.26. **ETC_EVENTOSDDISPLAYNAME1**

13.27. **ETC_EVENTOSDDISPLAYNAME2**

13.28. **ETC_EVENTOSDDISPLAYNAME3**

Enable to display event name.

Type unsigned char

Values

0	Disable
1	Enable

Comment
Side Effect

13.29. **ETC_EVENTOSDSTRING0**

13.30. **ETC_EVENTOSDSTRING1**

13.31. **ETC_EVENTOSDSTRING2**

13.32. **ETC_EVENTOSDSTRING3**

Set Event OSD string.

Type 64bytes array

Values

Null terminated String, Max 20 characters including Korean.

Comment
Side Effect

13.33. **ETC_EVENTOSDX0**

13.34. **ETC_EVENTOSDX1**

13.35. **ETC_EVENTOSDX2**

13.36. **ETC_EVENTOSDX3**

13.37. **ETC_EVENTOSDY0**

13.38. **ETC_EVENTOSDY1**

13.39. **ETC_EVENTOSDY2**

13.40. **ETC_EVENTOSDY3**

X-coordinate/Y-coordinate of user OSD.

Type unsigned short

Values

0 ~ 1000 coordinate

Comment

Side Effect

13.41. **ETC_EVENTOSDFONTSIZE0**

13.42. **ETC_EVENTOSDFONTSIZE1**

13.43. **ETC_EVENTOSDFONTSIZE2**

13.44. **ETC_EVENTOSDFONTSIZE3**

Font Size of Event OSD.

Type unsigned char

Values

12 ~ 48 font size

Comment

Side Effect

13.45. **ETC_EVENTOSDCOLOR0**

13.46. **ETC_EVENTOSDCOLOR1**

13.47. **ETC_EVENTOSDCOLOR2**

13.48. **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

13.49. **ETC_EVENTOSDEFFECT0**

13.50. **ETC_EVENTOSDEFFECT1**

13.51. **ETC_EVENTOSDEFFECT2**

13.52. **ETC_EVENTOSDEFFECT3**

Effect of Event OSD

Type unsigned char
Values

0	No Effect
1	Slow Blink
2	Fast Blink

Comment
Side Effect

13.53. **ETC_EVENTHTTPENABLE0**

13.54. **ETC_EVENTHTTPENABLE1**

13.55. **ETC_EVENTHTTPENABLE2**

13.56. **ETC_EVENTHTTPENABLE3**

Enable HTTP Action

Type unsigned char
Values

0	Off
1	On

Comment
Side Effect

13.57. **ETC_EVENTHTTPSTRING0**

13.58. **ETC_EVENTHTTPSTRING1**

13.59. **ETC_EVENTHTTPSTRING2**

13.60. **ETC_EVENTHTTPSTRING3**

Set HTTP Action string

Type 256bytes array
Values

Null terminated String, Max 255 characters

Comment
Side Effect

13.61. **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

13.62. **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

13.63. **ETC AutoPursuit Sensitivity**

Set AutoPursuit Sensitivity.

Type unsigned char

Values

0	High
1	Middle
2	Low

Comment

Side Effect

13.64. **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

13.65. **ETC AutoPursuit Zoom**

Enable Zoom Effective Mode.

Type unsigned char

Values

0	Off
1	On

Comment
Side Effect

13.66. **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

13.67. **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

13.68. **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

13.69. **ETC AutoPursuit Display**

Display Tacking Box

Type unsigned char

Values

0 Off

1 On

Comment
Side Effect

13.70. **ETC AutoPursuit Enable**

Enable Auto Tracking

Type unsigned char

Values

0 Off

1 On

Comment
Side Effect

13.71. **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

13.72. **ETC MPEGTS DestinationIP Ch0**

13.73. **ETC MPEGTS DestinationIP Ch1**

13.74. **ETC MPEGTS DestinationIP Ch2**

13.75. **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

13.76. ETC_MPEGTS_DestinationPORT_Ch0

13.77. ETC_MPEGTS_DestinationPORT_Ch1

13.78. ETC_MPEGTS_DestinationPORT_Ch2

13.79. ETC_MPEGTS_DestinationPORT_Ch3

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

Type unsigned short

Values

1 ~ 65535 Port number

Comment

Side Effect

13.80. ETC_MPEGTS_ENABLE_Ch0

13.81. ETC_MPEGTS_ENABLE_Ch1

13.82. ETC_MPEGTS_ENABLE_Ch2

13.83. ETC_MPEGTS_ENABLE_Ch3

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

Type unsigned char

Values

0 Disable
1 Enable

Comment

Side Effect

13.84. 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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.85. 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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.86. **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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.87. **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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.88. **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

ANT-45000(Decoder Mode), ANT-36000

13.89. 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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.90. 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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.91. 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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.92. 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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.93. **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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.94. **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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.95. **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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.96. **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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.97. **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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.98. **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

ANT-45000(Decoder Mode), ANT-36000

Side Effect

13.99. **ETC_PVOSD1LEFT~ETC_PVOSD4LEFT**

Direction OSD Range : Left boundary

Type signed integer

Values

0 ~ 36000 Left boundary

Comment

Right boundary must be larger than Left boundary

Side Effect

13.100. **ETC PVOSD1RIGHT~ETC PVOSD4RIGHT**

Direction OSD Range : Right boundary

Type signed integer

Values

0 ~ 36000 Right boundary

Comment

Right boundary must be larger than Left boundary

Side Effect

13.101. **ETC PVOSD1INENABLE~ETC PVOSD4INENABLE**

Enable or disable Direction OSD (inside of the boundary)

Type signed integer

Values

0 Disable

1 Enable

Comment

Side Effect

13.102. **ETC PVOSD1INSTRING~ETC PVOSD4INSTRING**

Direction OSD String (inside of the boundary)

Type 64bytes array

Values

Null terminated String, Max 20 characters including Korean.

Comment

Side Effect

13.103. **ETC PVOSD1INX~ETC PVOSD4INX**

13.104. **ETC PVOSD1INY~ETC PVOSD4INY**

X-coordinate/Y-coordinate of Direction OSD (inside of the boundary)

Type signed integer

Values

0 ~ 1000 coordinate

Comment

Side Effect

13.105. **ETC PVOSD1INFONTSIZE~ETC PVOSD4INFONTSIZE**

Font size of Direction OSD (inside of the boundary)

Type signed integer

Values

12 ~ 48 font size

Comment

Side Effect

13.106. **ETC PVOSD1INCOLOR~ETC PVOSD4INCOLOR**

Color of Direction OSD (inside of the boundary)

Type signed integer

Values

0 White

1 Gray1

2 Gray2

3 Gray3

4	Black
5	Red
6	Green
7	Blue
8	Yellow
9	Orange

Comment
Side Effect

13.107. **ETC PVOSD1OUTENABLE~ETC PVOSD4OUTENABLE**

Enable or disable Direction OSD (outside of the boundary)

Type signed integer

Values

0	Disable
1	Enable

Comment
Side Effect

13.108. **ETC PVOSD1OUTSTRING~ETC PVOSD4OUTSTRING**

Direction OSD String (outside of the boundary)

Type 64bytes array

Values

Null terminated String, Max 20 characters including Korean.

Comment
Side Effect

13.109. **ETC PVOSD1OUTX~ETC PVOSD4OUTX**

13.110. **ETC PVOSD1OUTY~ETC PVOSD4OUTY**

X-coordinate/Y-coordinate of Direction OSD (outside of the boundary)

Type signed integer

Values

0 ~ 1000 coordinate

Comment
Side Effect

13.111. **ETC PVOSD1OUTFONTSIZE~ETC PVOSD4OUTFONTSIZE**

Font size of Direction OSD (outside of the boundary)

Type signed integer

Values

12 ~ 48 font size

Comment
Side Effect

13.112. **ETC PVOSD1OUTCOLOR~ETC PVOSD4OUTCOLOR**

Color of Direction OSD (outside of the boundary)

Type signed integer

Values

0	White
1	Gray1
2	Gray2
3	Gray3
4	Black

5	Red
6	Green
7	Blue
8	Yellow
9	Orange

Comment
Side Effect

13.113. **ETC_IPV6ADDRESS**

IPv6 Address

Type 64bytes array

Values *Null terminated String, Max 63 characters*

Comment
Side Effect

13.114. **ETC_IPV6SUBNETPREFIXLENGTH**

IPv6 subnet prefix length

Type signed integer

Values *0 ~ 128*

Comment
Side Effect

13.115. **ETC_IPV6DEFAULTGATEWAY**

IPv6 default gateway address

Type 64bytes array

Values *Null terminated String, Max 63 characters*

Comment
Side Effect

13.116. **ETC_WiperMode**

Set wiper mode.

Type unsigned char

Values

0	continuous
1	reservation operation
2	manual

Comment
Default: 2

13.117. **ETC_WiperOperationDay**

Set wiper operation day.

Type unsigned char

Values

1	Sunday
2	Monday
4	Tuesday
8	Wednesday
16	Thursday
32	Friday
64	Saturday
127	Everyday

Multiple actions can be specified using bitwise OR-ing.

Comment

Default: 0

13.118. **ETC WiperOperationTime0**

13.119. **ETC WiperOperationTime1**

13.120. **ETC WiperOperationTime2**

13.121. **ETC WiperOperationTime3**

Set wiper operation time.

Type unsigned short

Values

0	Not used
10	10 seconds
30	30 seconds
60	1 minute
180	3 minutes
300	5 minutes
600	10 minutes
1200	20 minutes
1800	30 minutes

Comment

Default: 60

13.122. **ETC WiperStartHour0**

13.123. **ETC WiperStartHour1**

13.124. **ETC WiperStartHour2**

13.125. **ETC WiperStartHour3**

Set wiper start time(hour).

Type unsigned char

Values

0~23	hour
------	------

Comment

Default: 0

13.126. **ETC WiperStartMin0**

13.127. **ETC WiperStartMin1**

13.128. **ETC WiperStartMin2**

13.129. **ETC WiperStartMin3**

Set wiper start time(minute).

Type unsigned char

Values

0~59	minutes
------	---------

Comment

Default: 0

13.130. **ETC_SRTMODE0**

13.131. **ETC_SRTMODE1**

13.132. **ETC_SRTMODE2**

13.133. **ETC_SRTMODE3**

Set SRT mode.

Type unsigned char

Values

0	Off
1	Listener
2	Caller

Comment

Valid only when SYS_MODE is Encoder.

Default: 0

ETC_SRTMODE0	Primary
ETC_SRTMODE1	Secondary#1
ETC_SRTMODE2	Secondary#2
ETC_SRTMODE3	Secondary#3

13.134. **ETC_SRTADDRESS0**

13.135. **ETC_SRTADDRESS1**

13.136. **ETC_SRTADDRESS2**

13.137. **ETC_SRTADDRESS3**

SRT address.

Type 128bytes array

Values
Null terminated String, Max 128 characters
Comment

Valid only when ETC_SRTMODE is Caller.

13.138. **ETC_SRTPORT0**

13.139. **ETC_SRTPORT1**

13.140. **ETC_SRTPORT2**

13.141. **ETC_SRTPORT3**

SRT port.

Type unsigned short

Values

1~65535	Port number
---------	-------------

Comment

If ETC_SRTMODE is Listener, port means Listen Port.

If ETC_SRTMODE is Caller, port means Destination Port.

13.142. **ETC_SRTSECURE0**

13.143. **ETC_SRTSECURE1**

13.144. **ETC_SRTSECURE2**

13.145. **ETC_SRTSECURE3**

SRT secure.

Type unsigned char

Values

0	Off
1	AES-128
2	AES-256

Comment

Default: 0

13.146. **ETC_S RTPASSPHRASE0**

13.147. **ETC_S RTPASSPHRASE1**

13.148. **ETC_S RTPASSPHRASE2**

13.149. **ETC_S RTPASSPHRASE3**

SRT pass phrase.

Type 32bytes array

Values

Null terminated String, Max 32 characters

Comment

14. **VA parameters**

14.1. **VA_General_sensitive**

Video Analysis Sensitivity

Type unsigned int

Values

0 ~ 100

Comment

Side Effect

14.2. **VA_General_indoor**

Video Analysis Indoor Mode

Type unsigned int

Values

0	Indoor
1	Outdoor

Comment

Side Effect

14.3. **VA_General_color_check_enable**

Video Analysis color check enable

Type unsigned int

Values

0	Off
1	On

Comment
Side Effect

14.4. **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

14.5. **VA General object enable**

Enable object detection.

Type unsigned int

Values

0	Off
1	On

Comment
Side Effect

14.6. **VA General min object width**

14.7. **VA General min object height**

14.8. **VA General max object width**

14.9. **VA General max object height**

Set min/max object width/height.

Type unsigned int

Values

0 ~ 100

Comment
Side Effect

14.10. **VA General people enable**

Enable people detection.

Type unsigned int

Values

0	Off
1	On

Comment
Side Effect

14.11. **VA General min people width**

14.12. **VA General min people height**

14.13. **VA General max people width**

14.14. **VA General max people height**

Set min/max people width/height.

Type unsigned int

Values

0 ~ 100

Comment

Side Effect

14.15. **VA General vehicle enable**

Enable vehicle detection.

Type unsigned int

Values

0 Off

1 On

Comment

Side Effect

14.16. **VA General min vehicle width**

14.17. **VA General min vehicle height**

14.18. **VA General max vehicle width**

14.19. **VA General max vehicle height**

Set min/max vehicle width/height.

Type unsigned int

Values

0 ~ 100

Comment

Side Effect

14.20. **VA General other enable**

Enable other object detection.

Type unsigned int

Values

0 Off

1 On

Comment

Side Effect

14.21. **VA LineCounting enable**

Enable LineCrossing.

Type unsigned int

Values

0 Off

1 On

Comment

Side Effect

14.22. **VA LineCounting start x**

14.23. **VA LineCounting start y**

14.24. **VA LineCounting end x**

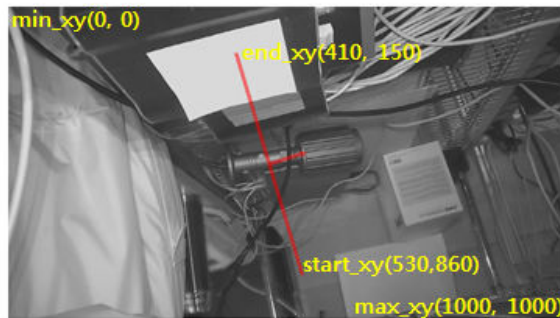
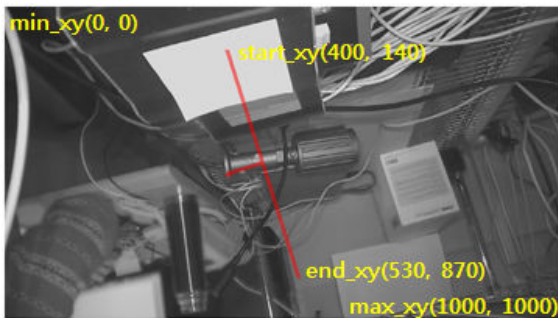
14.25. **VA LineCounting end y**

Set Line.

Type unsigned int

Values

0 ~ 1000



Comment
Side Effect

14.26. **VA LineCounting camera height**

Set camera height for area-based counting in meters.

Type unsigned int

Values

1 ~ 10 meters

Comment
Side Effect

14.27. **VA Tampering enable**

Enable Tampering

Type unsigned int

Values

0 Off

1 On

Comment
Side Effect

14.28. **VA Intrusion enable**

Enable Intrusion

Type unsigned int

Values

0 Off

1 On

Comment
Side Effect

Set Intrusion object size

Type	unsigned int
------	--------------

Values

1 ~ 100

percentage (Min object and intrusion area overlap)

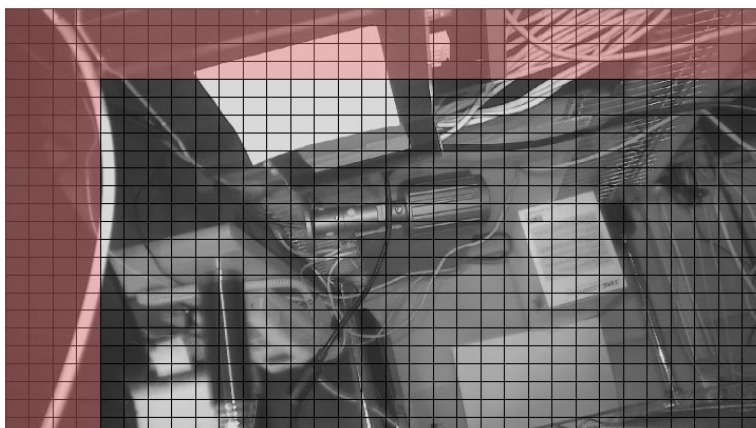
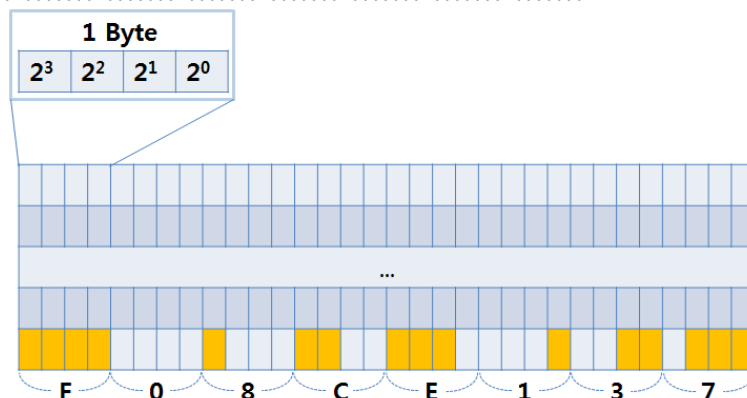
Comment

Side Effect

Set Intrusion area

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

Values

[illegible]

Comment

192Bytes (8Bytes * 24Bytes)

Side Effect

15. VideoOutput parameters

15.1. VOUT DECODEDELAY 0

15.2. VOUT DECODEDELAY 1

15.3.VOUT DECODEDELAY 2

15.4. 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

15.5. VOUT_AUDIOSYNC_0

15.6. VOUT_AUDIOSYNC_1

15.7. VOUT_AUDIOSYNC_2

15.8. 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

15.9. VOUT_CROPENABLE_0

15.10. VOUT_CROPENABLE_1

15.11. VOUT_CROPENABLE_2

15.12. VOUT_CROPENABLE_3

Set Video Output Mode

Type unsigned char

Values

0	<i>stretch</i>
1	<i>crop</i>
2	<i>black fill</i>

Comment

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

Side Effect

15.13. VOUT_DISPLAY_HDMI

Set HDMI output Display Mode

Type unsigned char

Values

0	<i>channel 1 only</i>
1	<i>channel 2 only</i>
2	<i>channel 3 only</i>
3	<i>channel 4 only</i>
4	<i>Rotation</i>
5	<i>Quad</i>

Comment

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

Side Effect

15.14. **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

15.15. **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

15.16. **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

15.17. **VOUT_DISPLAY_CVBS**

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

15.18. **VOUT_ROT_DELAY_CVBS**

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

16. Remote Address parameters

16.1. RMT REMOTETYPE 0

16.2. RMT REMOTETYPE 1

16.3. RMT REMOTETYPE 2

16.4. RMT REMOTETYPE 3

Set Remote Type.

Type unsigned char

Values

0	Normal(Antrica proprietary)
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

16.5. RMT PROTOCOL 0

16.6. RMT PROTOCOL 1

16.7. RMT PROTOCOL 2

16.8. 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

16.9. RMT DOMAINNAME 0

16.10. RMT DOMAINNAME 1

16.11. RMT DOMAINNAME 2

16.12. 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

16.13. **RMT_REMOTEPORT 0**

16.14. **RMT_REMOTEPORT 1**

16.15. **RMT_REMOTEPORT 2**

16.16. **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

16.17. **RMT_REMOTECHANNEL 0**

16.18. **RMT_REMOTECHANNEL 1**

16.19. **RMT_REMOTECHANNEL 2**

16.20. **RMT_REMOTECHANNEL 3**

Channel number of remote system to connect (when remote system has multiple channels. Normal (Antrica proprietary only)).

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

16.21. **RMT USESS 0**

16.22. **RMT USESS 1**

16.23. **RMT USESS 2**

16.24. **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

16.25. **RMT SSIP 0**

16.26. **RMT SSIP 1**

16.27. **RMT SSIP 2**

16.28. **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

16.29. **RMT SSPORT 0**

16.30. **RMT SSPORT 1**

16.31. **RMT SSPORT 2**

16.32. **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

16.33. **RMT_SSUSER 0**

16.34. **RMT_SSUSER 1**

16.35. **RMT_SSUSER 2**

16.36. **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

16.37. **RMT_SSPASS 0**

16.38. **RMT_SSPASS 1**

16.39. **RMT_SSPASS 2**

16.40. **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

16.41. **RMT RTPRECVRES 0**

16.42. **RMT RTPRECVRES 1**

16.43. **RMT RTPRECVRES 2**

16.44. **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

16.45. RMT ONVIF PROF CURR 0

16.46. RMT ONVIF PROF CURR 1

16.47. RMT ONVIF PROF CURR 2

16.48. 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

16.49. RMT SWDISABLE 0

16.50. RMT SWDISABLE 1

16.51. RMT SWDISABLE 2

16.52. 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

16.53. 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

16.54. RMT RECORDING

Set Remote number for recording.

Type unsigned char

Values

0 Remote#1

1	<i>Remote#2</i>
2	<i>Remote#3</i>
3	<i>Remote#4</i>

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, Bratislava, Budapest, Ljubljana, Prague
 (GMT+01:00) Brussels, Copenhagen, Madrid, Paris
 (GMT+01:00) Sarajevo, Skopje, Warsaw, Zagreb
 (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