HD/4Kインテグレーテッドカメラ
インターフェース仕様書

AW-UE4

2020/3/31

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1.はじめに

本書は、AW-UE4を操作する際の外部インターフェース仕様書です。
本書は外部インターフェースの概要、各コマンドの説明から構成しています。

2.概要

本書の概要は以下となります。

①外部インターフェース概要

パン、チルトやホワイトバランス調整等の制御を行うことができます。
また、ゲイン等のカメラ情報を問合せにより取得できます。
カメラとは、TCPの上位プロトコルであるHTTPで各種機能を操作します。
詳細は、3～4章を参照してください。

②カメラ情報の更新通知

別の端末で変更したゲイン等の値が、自端末に通知されてカメラ情報を取得することができます。
１台のカメラを複数の端末で制御しているときに有用で、更新通知を受信できるように設定しておくと、
他の端末で変更された情報を取得することができます。
詳細は、5章を参照してください。

③カメラ情報一括取得

カメラ情報を一括で取得することができます。1つずつカメラ情報を問い合わせる必要がないため、
起動時など一度にカメラ情報が必要な場合に有用です。
詳細は、6章を参照してください。

④エラー返信

上記①のコマンドによりエラーが発生した場合やAWBの結果がエラーであった場合に、ER1～ER3のエラーを返信します。
詳細は、7章を参照してください。

⑤メニュー一覧とコマンド対応表

UE4のメニュー一覧と各メニュー項目に関連するコマンドをまとめた表です
詳細は、8章を参照してください。

⑥制御・問合せコマンド

UE4で採用されているコマンドの仕様を記載しています。
詳細は、9章を参照してください。

3.コマンドタイプ

外部インターフェースコマンドには、回転台コマンドとカメラコマンドという2種類のフォーマットのコマンドが存在します。

3-1.回転台コマンド

Pan/Tiltなどの主に回転台部を制御するインターフェースです。
#(0x23)で始まります。
例）Pan停止コマンド

#	P	5	0
0x23	0x50	0x35	0x30

9章：コマンド仕様一覧の制御/要求コマンドで"#"で始まっているコマンドが回転台コマンドです

3-2.カメラコマンド

カメラのレンズ制御や映像調整などに関するインターフェースです。
カメラコマンドの場合は[Data]の前に":"が必要です。
例）Auto Focus設定

O	A	F	:	1
0x4F	0x41	0x46	0x3A	0x31

4.通信方式

回転台コマンドの場合

▼送信フォーマット

http://**[IP Address]**/cgi-bin/aw_ptz?cmd=**[コマンド]**&res=**[Type]**

※IP Address・・・接続先カメラのIPアドレス

※**コマンド・・・・・** 9章：コマンド仕様一覧の表の「コマンド」欄の内容

※Type・・・・・・・・「1」固定

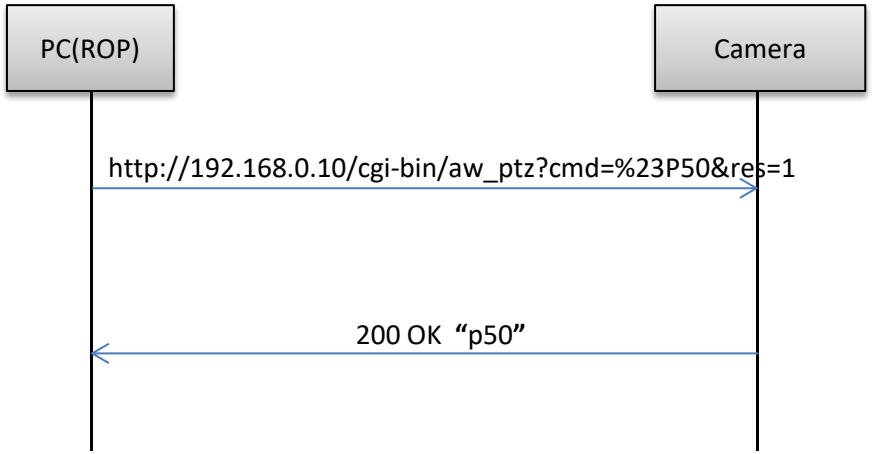
▼受信フォーマット

200 OK “**コマンド**”

※コマンド・・・各コマンドの応答値。
HTTPメッセージボディに設定されます。

送信したコマンドに対するエラーの通信シーケンスは
7章：エラー通信を参照してください

▼IP通信シーケンス



※使用するブラウザやミドルウェアによっては、「#」はASCII変換で「%23」と変換しなければならない場合があります。

カメラコマンドの場合

▼送信フォーマット

http://**[IP Address]**/cgi-bin/aw_cam?cmd=**[コマンド]**&res=**[Type]**

※IP Address・・・接続先カメラのIPアドレス

※**コマンド・・・・・** 9章：コマンド仕様一覧の表の「コマンド」欄の内容

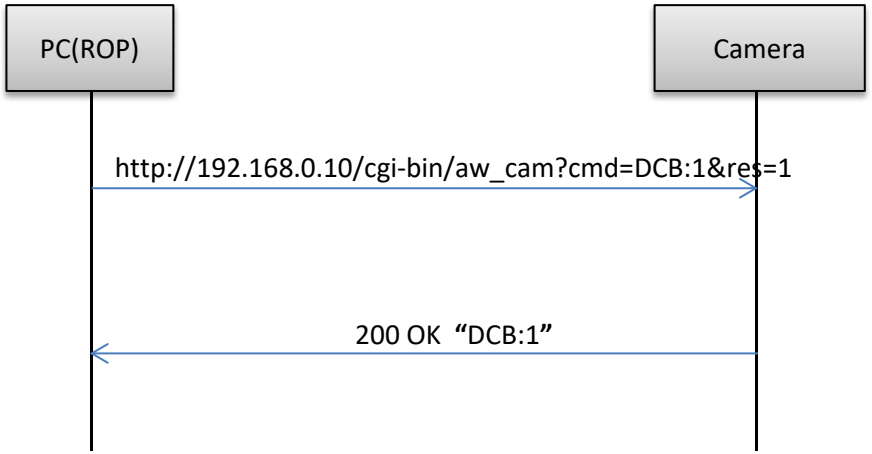
※Type・・・・・・・・「1」固定

▼受信フォーマット

200 OK “**コマンド**”

※コマンド・・・各コマンドの応答値。
HTTPメッセージボディに設定されます。

送信したコマンドに対するエラーの通信シーケンスは
7章：エラー通信を参照してください



【制限事項】

1. HTTPのコネクションでKeep-Aliveを設定することができません。
   1コマンドの送信または受信単位で接続と切断を行います。

2. 他設定などの条件によっては、効果が反映されない設定（※排他制御条件は8章：メニュー・コマンド対応表を参照してください）があります。

3. 設定を変更するコマンドは、変更が必要なタイミングで送信してください（定期的に送信しないでください）。

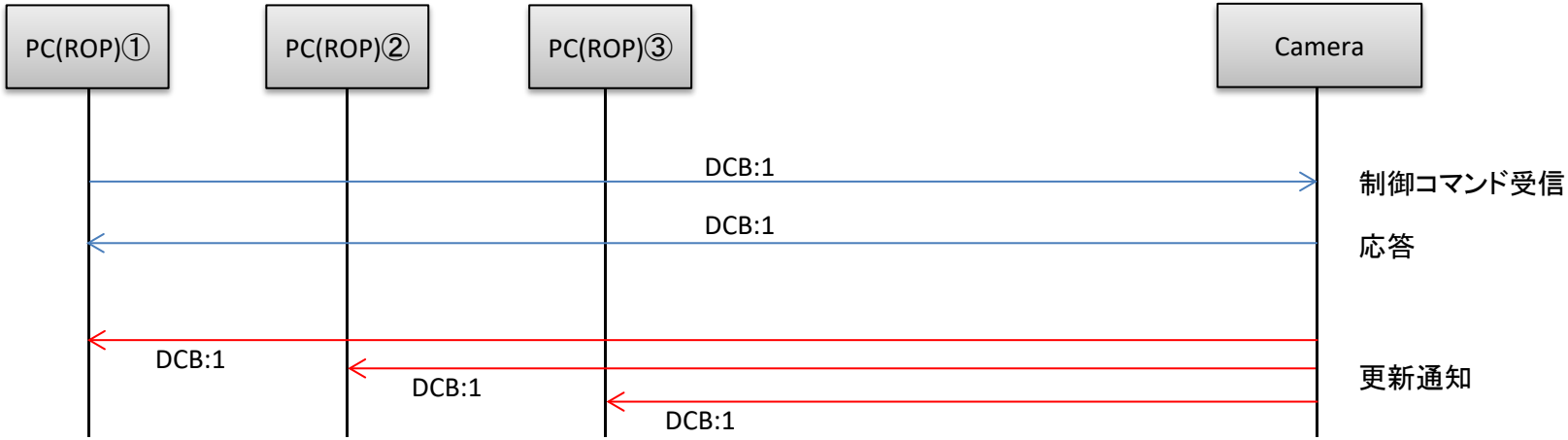
5.更新通知

前章までで述べた外部インターフェースコマンドの制御・応答の仕様では
A) ある端末によってカメラ設定が変更されても、他の端末は、カメラへ問合せコマンドを送信しない限り、その設定変更を知ることができない
B) プリセット再生・AWB/ABB実行など、処理時間がかかる制御コマンドの場合、その処理が完了するまで応答を待たなければならない
という制約があります。

そこで、カメラから端末へ、自発的に情報を送信することにより、
A) ある端末によってカメラ設定が変更されると、他の端末にも即座にその設定変更を通知する
B) 処理時間がかかる制御コマンドは、コマンドを受け付けた時点でHTTP応答を返し、処理が完了した時点で、処理結果を別途通知する
ことができます。
これを、カメラ情報の更新通知機能といいます。
以降、この機能を「更新通知」と呼びます。

5-1.更新通知のシーケンス

カメラの設定や状態が変更になると更新通知を送信します。



※更新通知が出ないコマンドもあります。
9章：コマンド仕様一覧を参照してください

5-2.更新通知のデータフォーマット

更新通知は、TCPプロコトル通信により、更新通知開始コマンドで指定した端末側TCPポート番号へ通知されます。
受信したデータの内訳は以下です。

【受信データ】

Reserve （22Byte）	**サイズ （2Byte）**	Reserve （4Byte）	**更新通知情報 （可変長：最大504Byte）**	Reserve （24Byte）

受信データフォーマットの「更新通知情報」に更新された情報が設定されています。
また、カメラから受信するデータは可変長です。
更新通知情報のサイズは、「サイズ」エリアの設定値から8Byteを引いた値が「更新通知情報」のサイズになります。
・「更新通知情報」のデータ長　＝　「サイズ」　－　8Byte

【更新通知情報フォーマット】
[CR][LF][各コマンドの応答コマンド形式][CR][LF]
※ [CR]：0x0d、[LF]：0x0aです。

例1）Power： On
[CR][LF]p1[CR][LF]

例2）カラーバー： On
[CR][LF]DCB:1[CR][LF]

5-3.更新通知の受信開始/終了の手続き

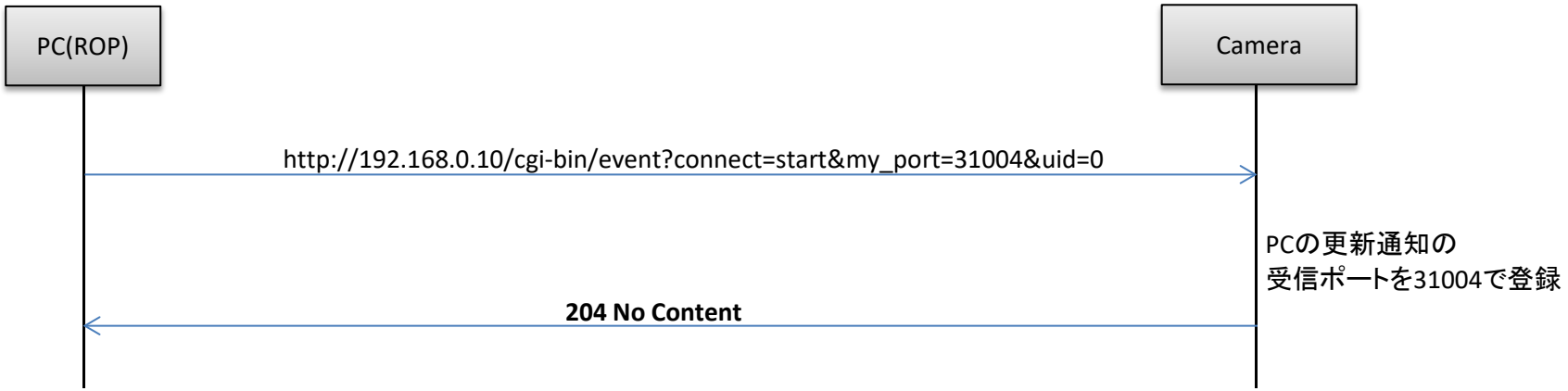
IPで更新通知を受ける際は事前に更新通知受信開始処理を行う必要があります。
その際、更新通知を受信する(送信してもらう)ための端末側TCPポート番号を指定します。

① 更新通知受信開始手順

例)カメラのIPアドレスが「192.168.0.10」で、受信を開始したい場合
http://192.168.0.10/cgi-bin/event?connect=start&my_port=31004&uid=0
※ my_port … 端末側TCPポート番号(任意の空ポート)

【更新通知受信開始シーケンス】

更新通知を受信したい端末から、更新通知受信開始コマンドを送信します。
コマンドを受信したカメラからは、「204 No Content」が返信されます。

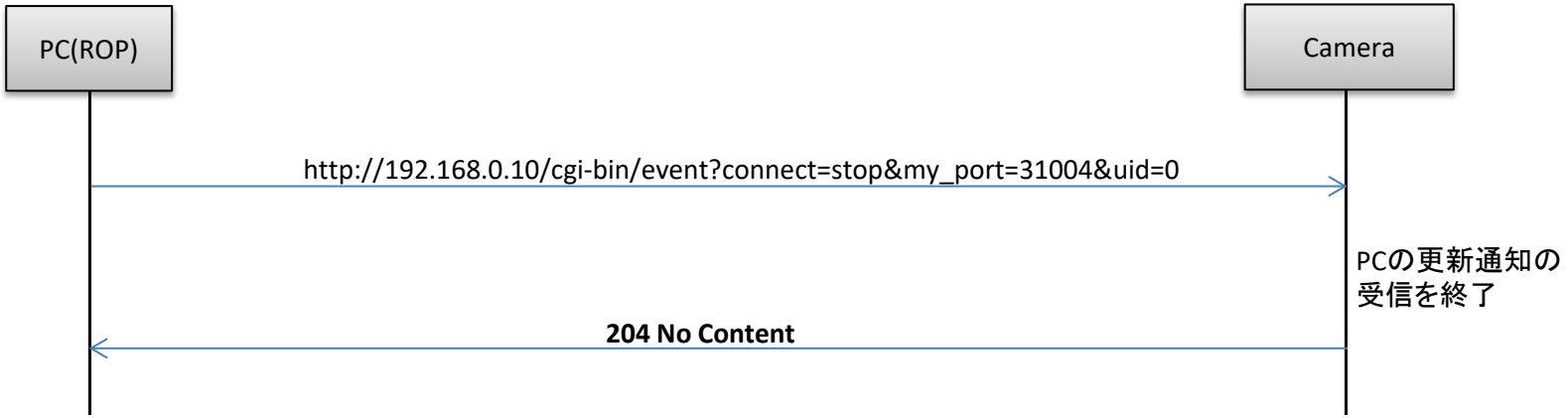


【注意】
LANケーブル抜けなどによる通信が切断された場合は、更新通知受信開始手順を行ってください。

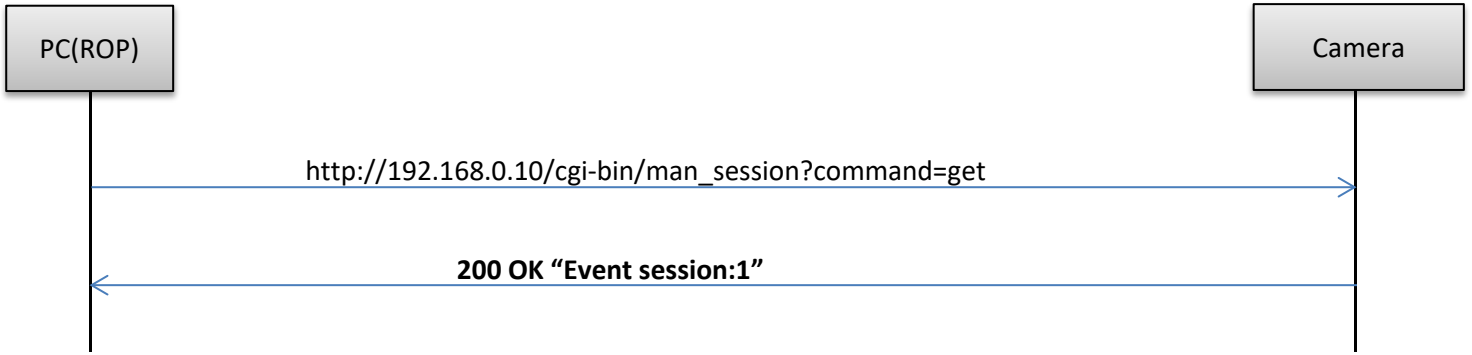
② 更新通知受信終了手順

クライアントのアプリケーションを終了する場合は、更新通知受信終了手順を必ず行ってください。
例) カメラのIPアドレスが「192.168.0.10」で、受信を終了したい場合
http://192.168.0.10/cgi-bin/event?connect=stop&my_port=31004&uid=0
※ my_port … 端末側TCPポート番号

【更新通知受信終了シーケンス】
　更新通知を受信している端末から、更新通知受信終了コマンドを送信します。
　コマンドを受信したカメラからは、「204 No Content」が返信されます。



③　更新通知登録台数
カメラと接続されている外部機器（RPリモコン他）の台数を下記コマンドで問い合わせることができます。
接続数は更新通知の受信開始手続きで増加し、受信終了手続きまたは送信相手と通信ができない時に減少します。
例）カメラのIPアドレスが「192.168.0.10」で、登録台数を問合せる場合
http://192.168.0.10/cgi-bin/man_session?command=get



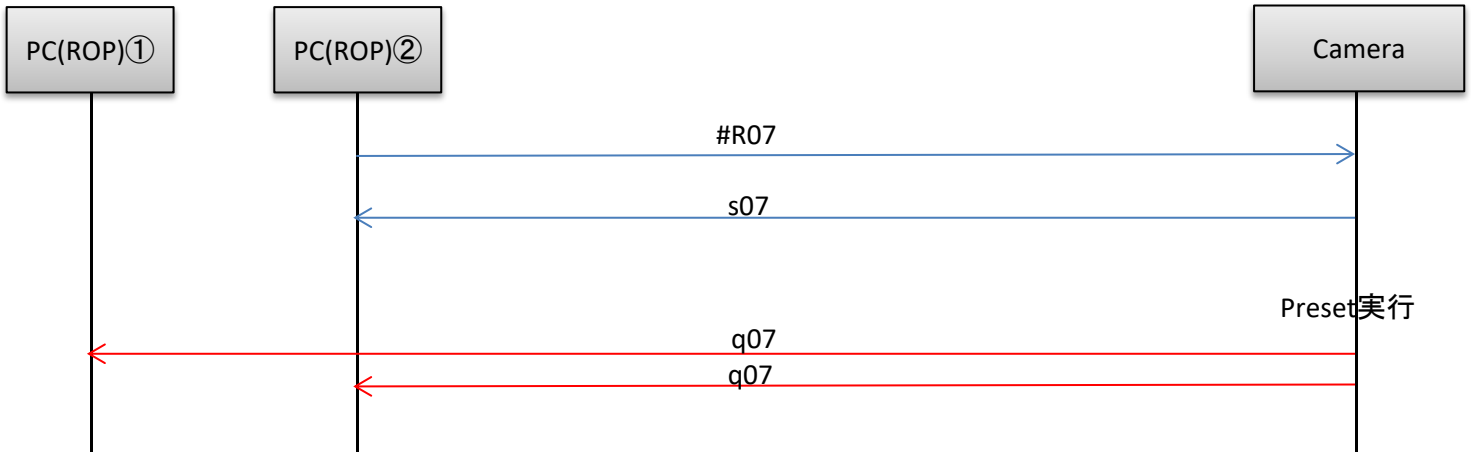
6.特殊シーケンス

6-1.Preset再生

カメラでのプリセット再生が完了すると、プリセット再生完了通知を更新通知として送信します。

通知コマンド	詳細
q[Data]	再生されたPreset番号-1

【プリセット再生のシーケンス】
プリセット番号08を再生するシーケンスです。
プリセット再生コマンドを受け付けた時点で、「s07」が応答として返信され、その後再生が完了した時点で、別途「q07」が更新通知として通知されます。



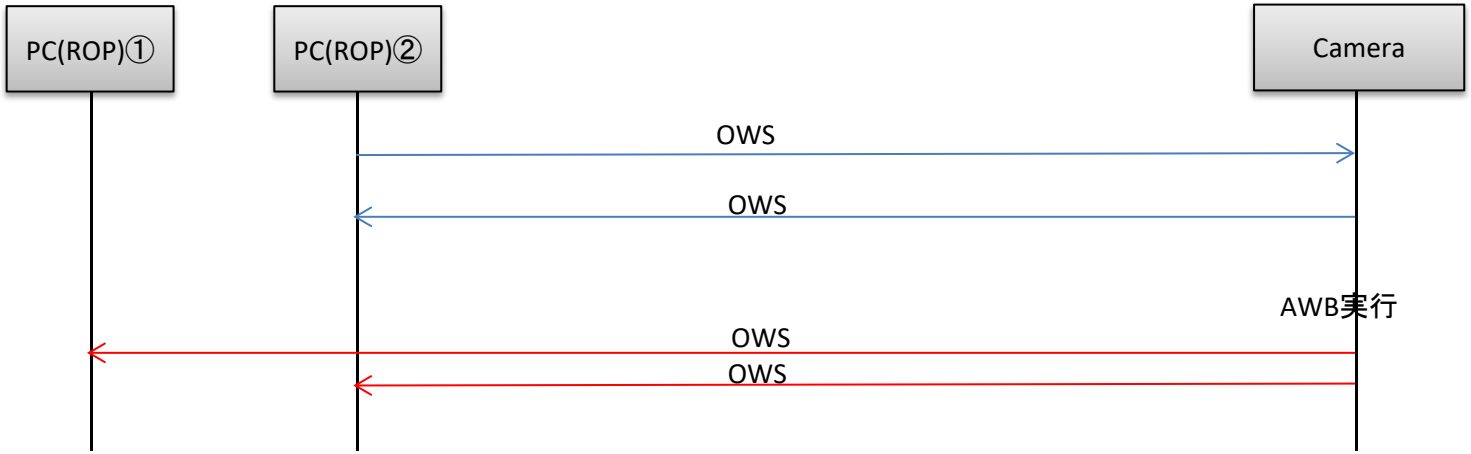
6-2.AWB/ABB実行

カメラでのAWB/ABBが完了すると、実行結果を更新通知として送信します。

通知コマンド	詳細
OWS	AWB成功
OAS	ABB成功

【AWB/ABB実行時のシーケンス】

AWB/ABB実行コマンドを受け付けた時点で応答を返信し、その後実行が完了した時点で、別途OWS/OASが更新通知として通知されます。



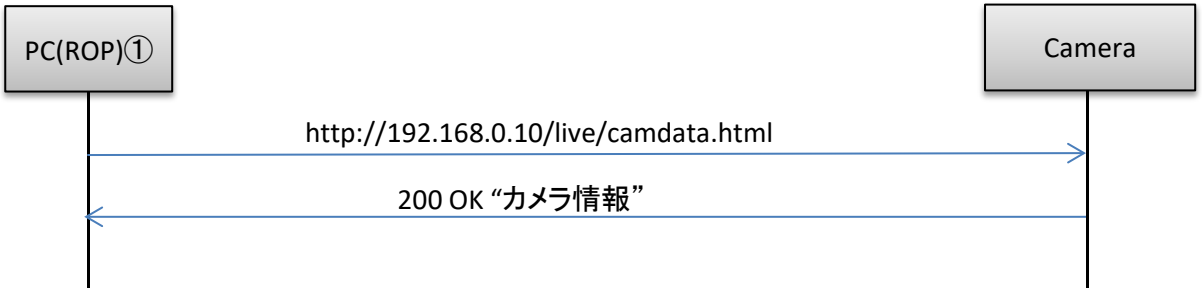
6-3.カメラ情報一括取得

IPからカメラ情報を一括で取得することができます。

【コマンドフォーマット】
[送信]
http://[IP Address]/live/camdata.html

[受信]
200 OK “カメラ情報”
　カメラ情報に含まれる情報については9章:コマンド仕様一覧を参照してください

【シーケンス】



7.エラー返信

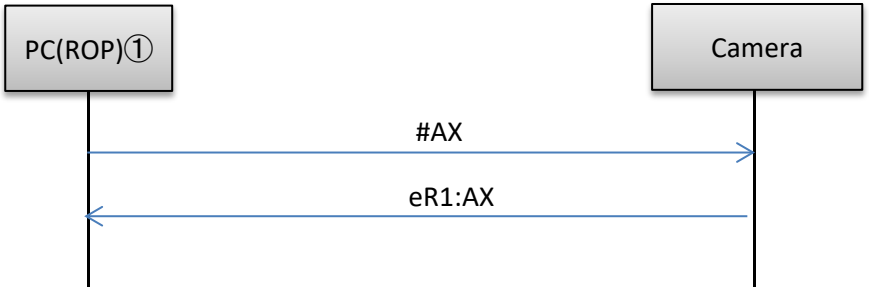
カメラで制御／問合せコマンドに対するエラーは、以下のER1、ER2、ER3の3種類のエラーがあります。

回転台コマンドの場合

▼ER1（未サポートコマンド）

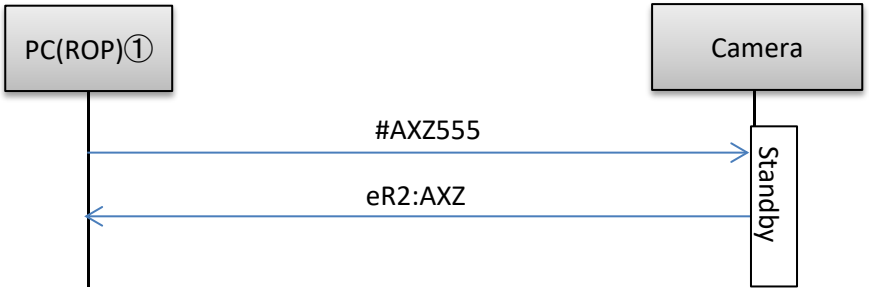
カメラで未サポートのコマンドを受信した場合ER1で応答します。

例：存在しないコマンドAXを実行した際のシーケンス



▼ER2（Busy状態）

Standby中など、カメラがBusy状態にある場合ER2で応答します

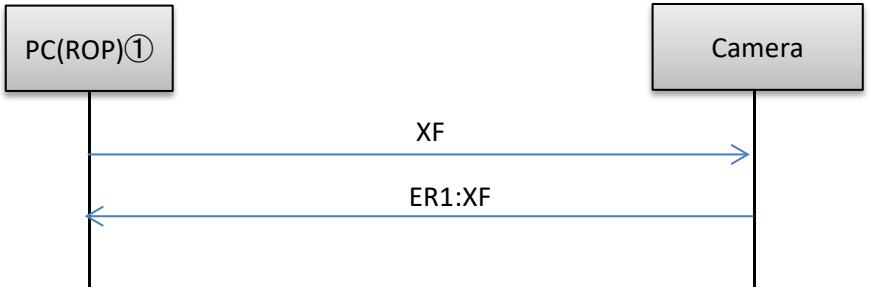


カメラコマンドの場合

▼ER1（未サポートコマンド）

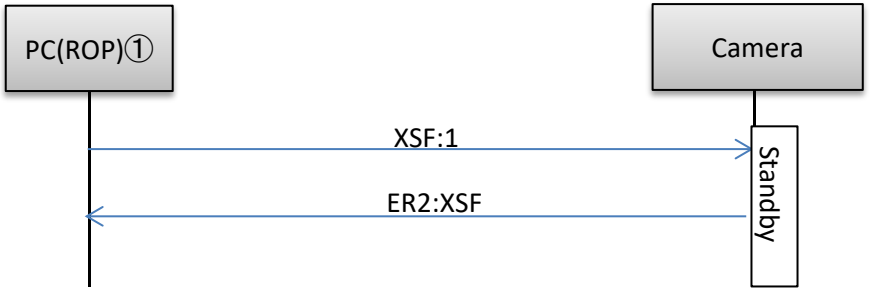
カメラで未サポートのコマンドを受信した場合ER1で応答します。

例：存在しないコマンドXFを実行した際のシーケンス

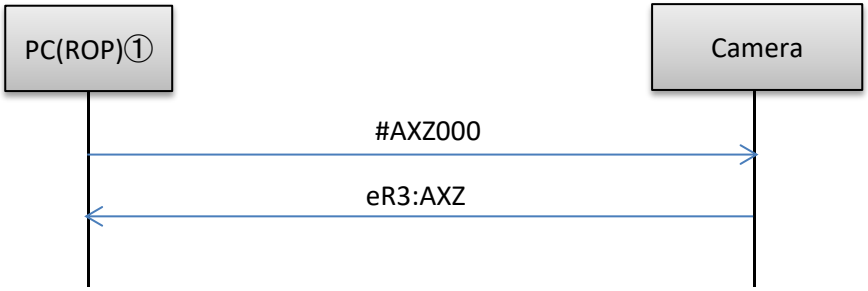


▼ER2（Busy状態）

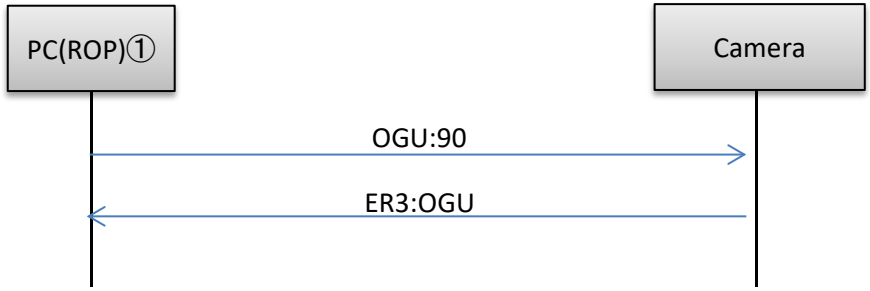
Standby中など、カメラがBusy状態にある場合ER2で応答します



▼ER3（パラメータエラー）
コマンドのData値が範囲外だった場合はER3で応答します
例：「#AXZ」コマンドのData値を範囲外の「000」で実行



▼ER3（パラメータエラー）
コマンドのData値が範囲外だった場合はER3で応答します
例：「OGU（ゲイン設定）」コマンドのData値を範囲外の「90」で実行



8. メニュー・コマンド対応表

メニュー	コマンド	備考
Camera		
Scene	XSF	
Brightness		
Picture Level	OSD:48	Sceneが"Full Auto""Shutter Priority"の時のみ設定可能
AGC MaxGain	OSD:69	Sceneが"Full Auto""Shutter Priority"の時のみ設定可能
Slow Shutter	OSJ:80	Sceneが"Full Auto"の時のみ設定可能
Shutter Speed	OSJ:03 OSJ:04 OSJ:05 OSJ:06	Sceneが"Shutter Priority""Manual"の時のみ設定可能
Gain	OGU	Sceneが"Shutter Priority""Manual"の時のみ設定可能
Picture		
Chroma Level	OCG	
White Balance Mode	OAW OWS OAS	
Detail	ODT	
Contrast	OSD:50	
DRS	OSE:33	
Back Light COMP.	OSE:73	Sceneが"Full Auto""Shutter Priority"の時のみ設定可能
DNR	OSD:3A	
LDC	OSJ:84	
System		
Priority Mode	-	対応するAWコマンドなし。CGIコマンドにて設定可能
Frequency	OSE:77	
Format	OSA:87	
Install Position	#INS	
Mirror	OSJ:81	
Digital Zoom	OSE:70	
Tally	#TAE #DA #TAA	
Wireless ID	#RID #WLC	
OSD off with Tally	OSE:75	
ColorBar	DCB	
Mic	OSA:DO	
Maintenance		
Langage	OSJ:82	
FW Version	QSV	

メニューに紐づかないコマンド		
MENU制御		
MENU(MENU ON/OFF)	DUS	
MENU SW(MENU Cancel)	DPG	
ITEM SW(ENTER Botton)	DIT	
YES SW(UP Botton)	DUP	
NO SW(Down Botton)	DDW	
RIGHT SW(Right Botton)	DRT	
LEFT SW(Left Botton)	DLT	
Pan/Tilt		
Pan/Tilt Absolute Position Control	#APC	
PAN SPEED	#P	
TILT SPEED	#T	
Pan Tilt Speed Control	#PTS	
Lens		
Zoom Position Control	#Z	
Zoom Speed	#AXZ	
Focus Position Control	#AXF	
IRIS AUTO/MANUAL	ORS	
Iris Control	#AXI	
Lens Position Information Control	#LPC	
Preset		
Recall Preset Memory	#R	
Save Preset Memory	#M	
Delete Preset Memory	#C	
Preset Max Number Confirmation	#PE	
Request Latest Recall Preset No.	#S	
Preset completion notification	q	
Others		
MODEL NUMBER	QID	
PowerON, Standby	#O	

9.コマンド仕様一覧

Scene

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
Scene	制御	XSF:[Data]	0 1 2 3	- Full Auto Shutter Priority Manual	cam ※1	※2	OSF:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=XSF:1&res=1
	応答	XSF:[Data]						
	要求	QSF	0 1 2 3	Full Auto Shutter Priority Manual -				
	応答	OSF:[Data]						

※1　コマンドタイプはptz：回転台コマンド、camカメラコマンドを表します
※2　Scene切り替え時にはSceneに属する各コマンドの更新通知が送信されます
　　Sceneに属するコマンドは下記です

項目	コマンド	備考
SCENE FILE	XSF:[Data]	
IRIS AUTO/MANUAL	ORS:[Data]	AUTO固定
PICTURE LEVEL	OSD:48:[Data]	Scene選択が、MANUAL選択時は、初期値送信
AGC Max Gain	OSD:69:[Data]	Scene選択が、MANUAL選択時は、初期値送信
Shutter Mode	OSJ:03:[Data]	Scene選択が、FullAUTO選択時は、OSJ:03:0、 Scene選択が、FullAUTO以外選択時は、OSJ:03:1を返却
Slow Shutter	OSJ:80:[Data]	Scene選択が、MANUAL選択時は、初期値送信
Step VAL	OSJ:06:[Data]	Scene選択が、Shutter Priority選択時、MANUAL選択時は、初期値送信
Gain	OGU:[Data]	Scene選択が、Full Autoの時は、初期値送信
Chroma Level	OCG:[Data]	
White Balance Mode	OAW:[Data]	制御コマンドの返信パラメータで送信
Detail	ODT:[Data]	
Contrast	OSD:50:[Data]	
DRS	OSE:33:[Data]	
Back Light COMP.	OSE:73:[Data]	Scene選択が、MANUAL選択時は、初期値送信
DNR	OSD:3A:[Data]	
LDC	OSJ:84:[Data]	

Brightness

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
Picture Level	制御	OSD:48:[Data]	2Eh ~ 32h ~ 36h	-4 ~ 0 ~ 4	cam	OSD:48:[Data]	OSD:48:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:48:32&res=1
	応答	OSD:48:[Data]						
	要求	QSD:48						
	応答	OSD:48:[Data]						
AGC Max Gain	制御	OSD:69:[Data]	04 05 06 07	24dB 30dB 36dB 42dB	cam	OSD:69:[Data]	OSD:69:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:69:04&res=1
	応答	OSD:69:[Data]						
	要求	QSD:69						
	応答	OSD:69:[Data]						
Slow Shutter	制御	OSJ:80:[Data]	0 1	Off On	cam	OSJ:80:[Data]	OSJ:80:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:80:1&res=1 ■Onの時 [50Hz] 1/1, 1/2, 1/5, 1/10, 1/20, 1/25, 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [59.94Hz/60Hz] 1/1, 1/2, 1/5, 1/10, 1/20, 1/30, 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 ■Offの時 [50Hz] 1/50, 1/100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000 [59.94Hz/60Hz] 1/60, 1/120, 1/240, 1/480, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000
	応答	OSJ:80:[Data]						
	要求	QSJ:80						
	応答	OSJ:80:[Data]						

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
Shutter Mode	制御	OSJ:03:[Data]	0h 1h	Off Step	cam	OSJ:03:[Data]	OSJ:03:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:03:1&res=1 ▼SCENE FULL AUTOの場合 Off固定　※OFF以外は、ER3返却 ▼SCENE　FULL　AUTO以外の場合 Step固定　※STEP以外は、ER3返却
	応答	OSJ:03:[Data]						
	要求	QSJ:03						
	応答	OSJ:03:[Data]						
Step INC	制御	OSJ:04:[Data]	01h － 64h	1 － 100	cam	－	－	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:04:01&res=1 選択可能なShutter Stepのうち[Data]段階だけ増加させる OSJ:06の更新通知が送信される
	応答	OSJ:04:[Data]						
	要求	－						
	応答	－						
Step DEC	制御	OSJ:05:[Data]	01h － 64h	1 － 100	cam	－	－	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:05:01&res=1 選択可能なShutter Stepのうち[Data]段階だけ減少させる OSJ:06の更新通知が送信される
	応答	OSJ:05:[Data]						
	要求	－						
	応答	－						
Step VAL	制御	OSJ:06:[Data]	0001h － 3E80h	1/1 － 1/16000	cam	OSJ:06:[Data]	OSJ:06:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:06:003C&res=1 有効なシャッタースピード以外は、ER3で応答。 ▼共通 0001h 1/1 0002h 1/2 0005h 1/5 000Ah 1/10 0014h 1/20 03E8h 1/1000 07D0h 1/2000 0FA0h 1/4000 1F40h 1/8000 3E80h 1/16000 ▼50Hの時のみ有効 0019h 1/25 0032h 1/50 0064h 1/100 00FAh 1/250 01F4h 1/500 ▼59.94/60Hzのみ有効 001Eh 1/30 003Ch 1/60 0078h 1/120 00F0h 1/240 01E0h 1/480
	応答	OSJ:06:[Data]						
	要求	QSJ:06						
	応答	OSJ:06:[Data]						
Gain	制御	OGU:[Data]	08h － 11h － 1Ah － 32h	0dB － 9dB － 18dB － 42dB	cam	OGU:[Data]	OGU:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OGU:08&res=1 3dB単位で設定可能。設定可能なパラメータ以外はER3応答する。
	応答	OGU:[Data]						
	要求	QGU						
	応答	OGU:[Data]						

Picture

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
Chroma Level	制御	OCG:[Data]	03h 04h 05h 06h 07h 08h 09h 0Ah 0Bh 0Ch 0Dh	0 1 2 3 4 5 6 7 8 9 10	cam	OCG:[Data]	OCG:Ox[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OCG:08&res=1
	応答	OCG:[Data]						
	要求	QCG						
	応答	OCG:[Data]						
White Balance Mode	制御	OAW:[Data]	0 1 2 3 4 5	ATW AWC A AWC B --- PRESET 3200K PRESET 5600K	cam	OAW:[Data]	OAW:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OAW:1&res=1 ATWの可変範囲は2800k～6500K
	応答	OAW:[Data]						
	要求	QAW	0 1 2 3 4 5	ATW --- AWC A AWC B PRESET 3200K PRESET 5600K				
	応答	OAW:[Data]						
AWB	制御	OWS	-	-	cam	OWS ER3:OWS	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=OWS&res=1 AWB実行時のシーケンスは[]参照
	応答	OWS						
	要求	-						
	応答	-						
ABB	制御	OAS	-	-	cam	ER3:OAS	-	UE4ではABBが実行できないため全てエラー応答となる
	応答	OAS						
	要求	-						
	応答	-						
Detail	制御	ODT:[Data]	0 1 2 3	0 1 2 3	cam	ODT:[Data]	ODT:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=ODT:1&res=1
	応答	ODT:[Data]						
	要求	QDT						
	応答	ODT:[Data]						
Contrast	制御	OSD:50:[Data]	0 1 2 3 4	0 1 2 3 4	cam	OSD:50:[Data]	OSD:50:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:50:1&res=1
	応答	OSD:50:[Data]						
	要求	QSD:50						
	応答	OSD:50:[Data]						
DRS	制御	OSE:33:[Data]	0 1	Off On	cam	OSE:33:[Data]	OSE:33:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:33:1&res=1
	応答	OSE:33:[Data]						
	要求	QSE:33						
	応答	OSE:33:[Data]						
Back Light COMP.	制御	OSE:73:[Data]	0 1	Off On	cam	OSE:73:[Data]	OSE:73:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:73:1&res=1
	応答	OSE:73:[Data]						
	要求	QSE:73						
	応答	OSE:73:[Data]						
DNR	制御	OSD:3A:[Data]	00 01 02	Off Low High	cam	OSD:3A:[Data]	OSD:3A:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSD:3A:01&res=1
	応答	OSD:3A:[Data]						
	要求	QSD:3A						
	応答	OSD:3A:[Data]						
LDC	制御	OSJ:84:[Data]	0 1	Off On	cam	OSJ:84:[Data]	OSJ:84:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:84:1&res=1
	応答	OSJ:84:[Data]						
	要求	QSJ:84						
	応答	OSJ:84:[Data]						

System

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
Frequency	制御	OSE:77:[Data]	0 1 4	59.94Hz 50Hz 60Hz	cam	OSE:77:[Data]	OSE:77:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:77:1&res=1 実行後に再起動がかかる
	応答	OSE:77:[Data]						
	要求	QSE:77						
	応答	OSE:77:[Data]						
Format	制御	OSA:87:[Data]	0h 1h 2h 10h 11h 14h 15h 17h 18h 20h 24h 25h	720/60p 720/59.94p 720/50p 1080/59.94p 1080/50p 1080/29.97p 1080/25p 2160/29.97p 2160/25p 1080/60p 2160/30p 1080/30p	cam	OSA:87:[Data]	OSA:87:0x[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:87:1&res=1 [50Hz] 2160/25p, 1080/50p, 1080/25p, 720/50p, [59.94Hz] 2160/29.97p, 1080/59.94p, 1080/29.97p, 720/59.94p, [60Hz] 2160/30p, 1080/60p, 1080/30p, 720/60p, ※Priority Modeが4Kの場合、FormatはFrequencyに応じて 2160/25p, 2160/29.97p, 2160/30pとなる。
	応答	OSA:87:[Data]						
	要求	QSA:87						
	応答	OSA:87:[Data]						
Install Positon	制御	#INS[Data]	0 1	Desktop Hanging	ptz	iNS[Data]	iNS[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23INS1&res=1
	応答	#INS[Data]						
	要求	#INS						
	応答	iNS[Data]						
Mirror	制御	OSJ:81:[Data]	0 1	OFF ON	cam	OSJ:81:[Data]	OSJ:81:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:81:1&res=1
	応答	OSJ:81:[Data]						
	要求	QSJ:81						
	応答	OSJ:81:[Data]						
Digital Zoom	制御	OSE:70:[Data]	0 1	OFF ON	cam	OSE:70:[Data]	OSE:70:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:70:1&res=1 Offの時 ：D-Zoomをx2まで動作させる（iA.Zoomとして動作させる） Onの時 ：D-Zoomをx4まで動作させる
	応答	OSE:70:[Data]						
	要求	QSE:70						
	応答	OSE:70:[Data]						

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
TALLY Enable	制御	#TAE[Data]	0 1	Disable Enable	ptz	tAE[Data]	tAE[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23TAE1&res=1
	応答	tAE[Data]						
	要求	#TAE						
	応答	tAE[Data]						
Tally Control	制御	#DA[Data]	0 1	OFF ON	ptz	dA[Data]	dA[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23DA1&res=1
	応答	dA[Data]						
	要求	#DA						
	応答	dA[Data]						
Tally Information	制御	-	[Data1] 0 1 [Data2] 0 [Data3] 0 1 [Data4] 0 [Data5] 0 [Data6] 0 [Data7] 0 [Data8] 0 [Data9] 0	[Data1] Tally LED Off Tally LED On [Data2] Reserved [Data3] Command(#DA)　Off Command(#DA)　On [Data4] Reserved [Data5] Reserved [Data6] Reserved [Data7] Reserved [Data8] Reserved [Data9] Reserved	ptz	tAA[Data1][Data2][Data3][Data4][Data5][Data6][Data7][Data8][Data9]	tAA[Data1][Data2][Data3][Data4][Data5][Data6][Data7][Data8][Data9]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23TAA&res=1 #DA,#TAEに変更があった際に、#TAAにも変化があれば更新通知が送信される
	応答	-						
	要求	#TAA						
	応答	tAA[Data1][Data2][Data3][Data4][Data5][Data6][Data7][Data8][Data9]						
Wireless ID	制御	#RID[Data]	0 1 2 3	01 02 03 04	ptz	rID[Data]	rID[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23RID1&res=1
	応答	rID[Data]						
	要求	#RID						
	応答	rID[Data]						
Wireless Control	制御	#WLC[Data1]	0 1	Disable Enable	ptz	wLC[Data1]	wLC[Data1]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23WLC1&res=1
	応答	wLC[Data1]						
	要求	#WLC						
	応答	wLC[Data1]						
OSD Off With TALLY	制御	OSE:75:[Data]	0 1	OFF ON	cam	OSE:75:[Data]	OSE:75:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSE:75:1&res=1
	応答	OSE:75:[Data]						
	要求	QSE:75						
	応答	OSE:75:[Data]						
COLORBAR/CAMERA	制御	DCB:[Data]	0 1	Camera Color Bar	cam	DCB:[Data]	OBR:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=DCB:1&res=1
	応答	DCB:[Data]						
	要求	QBR						
	応答	OBR:[Data]						
Mic	制御	OSA:DO:[Data]	0 1	OFF ON	cam	OSA:DO:[Data]	OSA:DO:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSA:DO:1&res=1
	応答	OSA:DO:[Data]						
	要求	QSA:DO						
	応答	OSA:DO:[Data]						

Maintenance

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
Langage	制御	OSJ:82:[Data]	0 1 2	English Japanease Chinese	cam	OSJ:82:[Data]	OSJ:82:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=OSJ:82:1&res=1
	応答	OSJ:82:[Data]						
	要求	QSJ:82						
	応答	OSJ:82:[Data]						
SOFTWARE VERSION	制御	-	-	VXX.XX ※例　V00.06	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=QSV&res=1
	応答							
	要求	QSV						
	応答	OSV:[Data1]						

OSD

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
MENU	制御	DUS:[Data]	0 1	OFF ON	cam	-	OUS:[Data]	http://192.168.0.10/cgi-bin/aw_cam?cmd=DUS:1&res=1
	応答	DUS:[Data]						
	要求	QUS						
	応答	OUS:[Data]						
MENU SW	制御	DPG:[Data]	1 （なし）	Cancel Cancel	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DPG&res=1
	応答	DPG:[Data]						
	要求	-						
	応答	-						
ITEM SW	制御	DIT:[Data]	1 （なし）	Enter Enter	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DIT&res=1
	応答	DIT:[Data]						
	要求	-						
	応答	-						
YES SW	制御	DUP:[Data]	1 （なし）	UP UP	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DUP&res=1
	応答	DUP:[Data]						
	要求	-						
	応答	-						
NO SW	制御	DDW:[Data]	1 （なし）	DOWN DOWN	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DDW&res=1
	応答	DDW:[Data]						
	要求	-						
	応答	-						
RIGHT SW	制御	DRT:[Data]	1 （なし）	RIGHT RIGHT	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DRT&res=1
	応答	DRT:[Data]						
	要求	-						
	応答	-						
LEFT SW	制御	DLT:[Data]	1 （なし）	LEFT LEFT	cam	-	-	http://192.168.0.10/cgi-bin/aw_cam?cmd=DLT&res=1
	応答	DLT:[Data]						
	要求	-						
	応答	-						

Pan/Tilt

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
Pan/Tilt Absolute Position Control	制御	#APC[Data1][Data2]	[Data1] 8000h [Data2] 8000h	[Data1] Pan Position Center [Data2] Tilt Position Center	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23APC80008000&res=1 ZoomがWide端へ移動する
	応答	aPC[Data1][Data2]						
	要求	-						
	応答	-						
Pan Speed Control	制御	#P[Data]	01-07 18-33 34-49 50 51-66 67-82 83-99	Left Max. Speed Left Mid. Speed Left Min. Speed Pan Stop Right Min. Speed Right Mid. Speed Right Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23P70&res=1
	応答	pS[Data]						
	要求	-						
	応答	-						
Tilt Speed Control	制御	#T[Data]	01-07 18-33 34-49 50 51-66 67-82 83-99	Down Max. Speed Down Mid. Speed Down Min. Speed Tilt Stop UP Min. Speed UP Mid. Speed UP Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23T70&res=1
	応答	tS[Data]						
	要求	-						
	応答	-						
Pan Tilt Speed Control	制御	#PTS[Data1][Data2]	[Data1] 01-07 18-33 34-49 50 51-66 67-82 83-99 [Data2] 01-07 18-33 34-49 50 51-66 67-82 83-99	[Data1] Left Max. Speed Left Mid. Speed Left Min. Speed Pan Stop Right Min. Speed Right Mid. Speed Right Max. Speed [Data2] Down Max. Speed Down Mid. Speed Down Min. Speed Tilt Stop UP Min. Speed UP Mid. Speed UP Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PTS7070&res=1
	応答	pTS[Data1][Data2]						
	要求	-						
	応答	-						

Lens

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
Zoom Position Control	制御	#AXZ[Data]	555h	Wide	ptz	-	axz555	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXZ555&res=1 ZoomがWide端へ移動する
	応答	axz[Data]						
	要求	#AXZ						
	応答	axz[Data]						
Zoom Speed Control	制御	#Z[Data]	01-25 26-49 50 51-74 75-99	Wide Max. Speed Wide Min. Speed Zoom Stop Tele Min. Speed Tele Max. Speed	ptz	-	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23Z70&res=1
	応答	zS[Data]						
	要求	-						
	応答	-						
Focus Position Control	制御	#AXF[Data]	555h	FIX	ptz	-	axf555	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXF555&res=1 制御には正常応答するが、実動作は変わらない。 問い合わせには固定値で応答する
	応答	axf[Data]						
	要求	#AXF						
	応答	axf[Data]						
IRIS AUTO/MANUAL	制御	ORS:[Data]	1	Auto	cam	-	ORS:1	http://192.168.0.10/cgi-bin/aw_cam?cmd=ORS:1&res=1 固定値で応答する
	応答	ORS:[Data]						
	要求	QRS						
	応答	ORS:[Data]						
Iris Control	制御	#AXI[Data]	555h	FIX	ptz	-	axi555	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23AXI555&res=1 制御には正常応答するが、実動作は変わらない。 問い合わせには固定値で応答する
	応答	axi[Data]						
	要求	#AXI						
	応答	axi[Data]						
Lens Position Information Control	制御	#LPC[Data]	0 1	Off On	ptz	IPC[Data]	-	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23LPC1&res=1
	応答	IPC[Data]						
	要求	#LPC						
	応答	IPC[Data]						

Preset

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
Save Preset Memory	制御	#M[Data]	00 – 99	Preset001 – Preset100	ptz	–	–	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23M00&res=1
	応答	s[Data]						
	要求	–						
	応答	–						
Recall Preset Memory	制御	#R[Data]	00 – 99	Preset001 – Preset100	ptz	–	–	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23R00&res=1
	応答	s[Data]						
	要求	–						
	応答	–						
Preset completion notification	制御	–	00 – 99	Preset001 – Preset100	ptz	q[Data]	–	
	応答	q[Data]						
	要求	–						
	応答	–						
Delete Preset Memory	制御	#C[Data]	00 – 99	Preset001 – Preset100	ptz	–	–	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23C00&res=1
	応答	s[Data]						
	要求	–						
	応答	–						
Request Latest Recall Preset No.	制御	–	00 – 99	Preset001 – Preset100	ptz	s[Data]	s[Data]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23S&res=1
	応答	–						
	要求	#S						
	応答	s[Data]						
Preset Entry Confirmation	制御	–	[Data1] 00h – 02h	[Data1] multiple (each 40 Presert No)	ptz	pE[Data1][Data2]	pE00[Data2] pE01[Data2] pE02[Data2]	http://192.168.0.10/cgi-bin/aw_ptz?cmd=%23PE00&res=1
	応答	–	[Data2] 0000000000h – FFFFFFFFFFh (bit0) 0 1 (bit1) 0 1 – (39bit) 0 1	[Data2] PRESET No.(Data1*40 + 1) No Entry Entry PRESET No.(Data1*40 + 2) No Entry Entry – PRESET No.(Data1*40 + 40) No Entry Entry				
	要求	#PE[Data1]						
	応答	pE[Data1][Data2]						

Preset再生時のシーケンスは6章:特殊シーケンスを参照してください

Others

コマンド名	種別	コマンド	Data値	設定値	コマンドタイプ	更新通知	camdata.html	使用例・備考
MODEL NUMBER	制御	-		AW-UE4	cam	-	OID:AW-UE4	http://192.168.0.10/cgi-bin/aw_cam?cmd=QID&res=1
	応答	-						
	要求	QID						
	応答	OID:[Data]						
PowerON, Standby	制御	#O[Data]						http://192.168.0.10/cgi-bin/aw_ptz?cmd=%2300&res=1
	応答	p[Data]	0 1	Standby PowerOn	ptz	p[Data]	p[Data]	
	要求	#O						
	応答	p[Data]						

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
MODEL NUMBER	QID OID:[Data]		Returns model No. by ASCII	○	○	○	○	○	○	○	○	○	○	○
SOFTWARE VERSION	QSV OSV:[Data]		Software Version	○	○	○	---	○	○	○	○	○	○	○
AWC/AWB SET	OWS	---	AWC/AWB Start	○	○	○	○	○	○	○	○	○	○	○
ABC/ABB SET	OAS	---	ABC/ABB Start	○	○	○	○	○	○	○	○	○	---	---
AWC MODE	OAW:[Data] QAW	※	※	※	※	※	---	※	※	※	※	※	※	※
DETAIL	ODT:[Data] QDT	0 1 2 0 1 2 0 1 2 3	OFF LOW HIGH <u>HE130, UB300, HR140, UE150</u> OFF ON ON <u>UE4</u> 0 1 2 3	○	○	○	○	○	○	○	○	○	○	○
GAIN UP	OGU:[Data] QGU	08h - 11h - 1Ah - 38h 80h	0dB - 9dB - 18dB - 48dB AGC ON	supports only 08(0dB)-32(42dB)	supports only 08(0dB)-32(42dB), 80(AGC ON)	supports only 08(0dB)-32(42dB), 80(AGC ON)	---	supports only 08h:0dB-38h:48dB 80h:AGC ON Use only 3dB Step.	supports only 08h:0dB-38h:48dB 80h:AGC ON Use only 3dB Step.	supports only 08h:0dB-38h:48dB 80h:AGC ON Use only 3dB Step.	supports only 08(0dB)-2C(36dB), 80(AGC ON)	supports only 08(0dB)-1A(18dB), 80(AGC ON)	supports only 08(0dB)-1A(18dB), 80(AGC ON)	supports only 08(0dB)-1A(18dB), 80(AGC ON)
SHUTTER	OSH:[Data] QSH	0h 1h 2h 3h 4h 5h 6h 7h 8h 9h Ah Bh Ch Dh Eh Fh	OFF 1/50 1/60 1/100(NSTC)、1/120(PAL) 1/120 (NTSC) 、1/100 (PAL) 1/250 1/500 1/1000 1/2000 1/4000 1/10000 Synchro-Scan ELC(AUTO ND) 1/24 1/25 1/30	---	---	※	---	※	※	※	※	※	※	※
SYNCHRO SCAN	OMS:[Data] QMS	001h - 0FFh	See right	---	---	(59Hz) 001h(60.15Hz) - 0FFh(642.21Hz) (50Hz) 001h(50.15Hz) - 0FFh(535.71Hz)	---	(59.94Hz) 001h(59.94Hz) - 0FFh(660.09Hz) (50Hz 001h(50.00Hz) - 0FFh(570.12Hz)	(59.94Hz) 001h(59.94Hz) - 0FFh(660.09Hz) (50Hz 001h(50.00Hz) - 0FFh(570.12Hz)	(59.94Hz) 001h(59.94Hz) - 0FFh(660.09Hz) (50Hz 001h(50.00Hz) - 0FFh(570.12Hz)	(59Hz) 001h(60.15Hz) - 0FFh(642.21Hz) (50Hz) 001h(50.15Hz) - 0FFh(535.71Hz)	(59Hz) 001h(60.17Hz) - 0FFh(646.21Hz) (50Hz) 001h(50.19Hz) - 0FFh(537.13Hz)	(59Hz) 001h(60.17Hz) - 0FFh(644.25Hz) (50Hz) 001h(50.16Hz) - 0FFh(542.42Hz)	(N Model) 001h(60.17Hz) - 0FFh(644.25Hz) (E,MC Model) 001h(50.16Hz) - 0FFh(542.42Hz)
IRIS AUTO/MANUAL	ORS:[Data] QRS	0 1	Manual Auto	supports only 1(Auto)	○	○	○	○	○	○	○	○	○	○
MANUAL IRIS VOLUME	ORV:[Data] QRV	000h - 3FFh	close - open	---	○	○	○	○	○	○	○	○	○	○

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
PICTURE LEVEL A.IRIS LEVEL IRIS OFFSET	OSD:48:[Data] QSD:48	00h – 32h – 64h 00h – 32h – 64h 00h – 32h – 64h 00h – 64h	UE150,HR140,HE130,UE4 -50 – 0 – +50 UE70series,HE75series,HE70series,HE120 -10 – 0 – 10 HE60,HE50 -5 – 0 – 5 UB300 0 – 100	supports only 2Eh(-4) – 36h(4)	○	○	○	○	○	○	○	○	○	○
R PEDESTAL	ORD:[Data] QRD	00h – 1Eh – 3Ch	-150 – 0 – +150	---	---	supports only 0A(-100) – 32(+100)	---	---	---	---	supports only 0A(-100) – 32(+100)	○	---	---
B PEDESTAL	OBD:[Data] QBD	00h – 1Eh – 3Ch	-150 – 0 – +150	---	---	supports only 0A(-100) – 32(+100)	---	---	---	---	supports only 0A(-100) – 32(+100)	○	---	---
R GAIN	ORG:[Data] QGR OGR:[Data]	00h – 1Eh – 3Ch 00h – 1Eh – 3Ch	-30 – 0 – +30 HR140,HE130,HE120 -150 – 0 – 150	---	---	○	---	○	○	○	○	○	○	○
B GAIN	OBG:[Data] QGB OGB:[Data]	00h – 1Eh – 3Ch 00h – 1Eh – 3Ch	-30 – 0 – +30 HR140,HE130,HE120 -150 – 0 – 150	---	---	○	---	○	○	○	○	○	○	○
T PEDESTAL	OTD:[Data] QTD	00h – 1Eh – 3Ch 00h – 1Eh – 3Ch	-10 – 0 – +10 HR140,HE130,HE120 -150 – 0 – 150	---	---	○	---	○	○	○	○	○	○	○

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
H PHASE	OHP:[Data] QHP	000h – 3FFh	-206 – +49	---	○	○	---	○	○	---	○	○	○	○
SC COARSE	OSC:[Data] QSC	※	※	---	---	---	---	---	---	---	---	---	※	※
SC FINE	OSN:[Data] QSN	000h 001h 002h – 200h – 3FFh	-511 -511 -511 – 0 – +511	---	---	---	---	---	---	---	---	---	○	○
CHROMA LEVEL	OCG:[Data] QCG	00h – 03h – 06h – 0Dh	-3 – 0 – +3 – 10	supports only 03h(0) – 0Dh(10)	---	---	---	○	○	○	---	○	○	○
SCENE FILE	XSF:[Data] QSF OSF:[Data]	※	※	※	※	※	※	※	※	※	※	※	※	※
H.DTL LEVEL H	OSD:0A:[Data] QSD:0A	02h – 3Fh	2 – 63	---	---	---	---	---	---	---	---	○	---	---
V DTL LEVEL H	OSD:0E:[Data] QSD:0E	02h – 1Fh	2 – 31	---	---	---	---	---	---	---	---	○	---	---
H.DTL LEVEL L	OSD:12:[Data] QSD:12	01h – 3Eh	1 – 62	---	---	---	---	---	---	---	---	○	---	---
V DTL LEVEL L	OSD:16:[Data] QSD:16	01h – 1Eh	1 – 30	---	---	---	---	---	---	---	---	○	---	---
DETAIL BAND	OSD:1E:[Data] QSD:1E	01 – 05	01 – 05	---	---	---	---	---	---	---	---	○	---	---
NOISE SUPPRESS /CRISP	OSD:22:[Data] QSD:22	00h – 3Fh	0 – 63	---	---	Support Only 00(0)-3C(60)	○	---	---	---	Support Only 00(0)-3C(60)	Support Only 00(0)-07(7)	---	---
LEVEL DEPENDENT	OSD:26:[Data] QSD:26	00h – 0Fh	00 – 15	---	---	---	○	---	---	---	---	---	---	---
MATRIX(R-G)	OSD:2F:[Data] QSD:2F	00h – 1Fh – 3Eh	-31 – 0 – +31	---	---	---	---	---	---	---	---	○	---	---
MATRIX(R-B)	OSD:30:[Data] QSD:30	00h – 1Fh – 3Eh	-31 – 0 – +31	---	---	---	---	---	---	---	---	○	---	---
MATRIX(G-R)	OSD:31:[Data] QSD:31	00h – 1Fh – 3Eh	-31 – 0 – +31	---	---	---	---	---	---	---	---	○	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
MATRIX(G-B)	OSD:32:[Data] QSD:32	00h - 1Fh - 3Eh	-31 - 0 - +31	---	---	---	---	---	---	---	---	○	---	---
MATRIX(B-R)	OSD:33:[Data] QSD:33	00h - 1Fh - 3Eh	-31 - 0 - +31	---	---	---	---	---	---	---	---	○	---	---
MATRIX(B-G)	OSD:34:[Data] QSD:34	00h - 1Fh - 3Eh	-31 - 0 - +31	---	---	---	---	---	---	---	---	○	---	---
FLARE R	OSD:35:[Data] QSD:35	9C ～ FF 00 01 ～ 64	-100 ～ -1 0 +1 ～ +100	---	---	---	○	---	---	---	---	---	---	---
FLARE G	OSD:36:[Data] QSD:36	9C ～ FF 00 01 ～ 64	-100 ～ -1 0 +1 ～ +100	---	---	---	○	---	---	---	---	---	---	---
FLARE B	OSD:37:[Data] QSD:37	9C ～ FF 00 01 ～ 64	-100 ～ -1 0 +1 ～ +100	---	---	---	○	---	---	---	---	---	---	---
FLARE SW	QSA:11:[Data] QSA:11	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
CLEAN DNR	OSD:3A:[Data] QSD:3A	00 01 02 <u>AK-UB300</u> 00 01 02	OFF LOW HIGH <u>AK-UB300</u> OFF ON ON	○	○	○	○	○	○	○	○	○	○	○
FLESH NOISE SUPPRESS	OSD:4B:[Data] QSD:4B	00 01 02	OFF LOW HIGH		---	---	---	---	---	---	---	○	---	---
IRIS FOLLOW	QSD:4F OSD:4F:[Data]	00h - FFh	Close - Open	---	○	○	---	○	○	○	○	○	○	○
CONTRAST(GAMMA)	OSD:50:[Data] QSD:50	00 01 02 0 - 4	LOW MID HIGH <u>UE4</u> 0 - 4	○	---	---	---	○	○	○	---	○	○	○
OUTPUT SELECT	OSD:65:[Data] QSD:65	00 01 02	RGB YPbPr Y/C	---	---	---	---	---	---	---	---	Y/C is Valid	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
AGC MAX	OSD:69:[Data] QSD:69	01 02 03 04 05 06 07 08	6dB 12dB 18dB 24dB 30dB 36dB 42dB 48dB	supports only 04(24dB) – 07(42dB)	supports only 01(6dB) – 03(18dB)	supports only 01(6dB) – 03(18dB)	---	supports only 01(6dB) – 08(48dB)	supports only 01(6dB) – 08(48dB)	supports only 01(6dB) – 08(48dB)	supports only 01(6dB) – 03(18dB)	supports only 01(6dB) – 03(18dB)	supports only 01(6dB) – 03(18dB)	supports only 01(6dB) – 03(18dB)
COLOR BAR/CAMERA	DCB:[Data] QBR OBR:[Data]	0 1	Camera Color Bar	○	○	○	○	○	○	○	○	○	○	○
MENU	DUS:[Data] QUS OUS:[Data]	0 1	OFF ON	○	○	○	○	○	○	○	○	○	○	○
BAR SETUP	DCS:[Data] QCS OCS:[Data]	0 1	0.0% 7.5%	---	---	---	---	---	---	---	○	○	---	---
MENU SW	DPG:[Data]	1	Cancel	○	○	○	○	○	○	○	○	○	○	○
ITEM SW	DIT:[data]	1	Enter	○	○	○	○	○	○	○	○	○	○	○
YES SW	DUP:[Data]	1h Ah	1Step 10Step	supports only 1h(1Step)	supports only 1h(1Step)	○	supports only 1h(1Step)	○	○	○	○	○	○	○
NO SW	DDW:[Data]	1h Ah	1Step 10Step	supports only 1h(1Step)	supports only 1h(1Step)	○	supports only 1h(1Step)	○	○	○	○	○	○	○
ZOOM(TELE)	HZT	---	move to tele	---	---	---	○	○	○	○	---	---	○	○
ZOOM(WIDE)	HZW	---	move to wide	---	---	---	○	○	○	○	---	---	○	○
ZOOM(STOP)	HZS	---	stop zoom	---	---	---	○	○	○	○	---	---	○	○
ZOOM SPEED	LZS:[Data]	0 – 9	Slow – Fast	---	---	---	○	○	○	○	---	---	○	○
FOCUS(FAR)	HFF	---	move to far	---	---	---	○	○	○	○	---	---	○	○
FOCUS(NEAR)	HFN	---	move to near	---	---	---	○	○	○	○	---	---	○	○
FOCUS(STOP)	HFS	---	stop focus	---	---	---	○	○	○	○	---	---	○	○
FOCUS SPEED	LFS:[Data]	0 – 9	Slow – Fast	---	---	---	○	○	○	○	---	---	○	○
COLOR MATRIX R GAIN /COLOR CORRECTION R SATURATION	OSD:86:[Data] QSD:86	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 01h(-127) – FEh(+126)	supports only 61h(-31) – 9Fh(+31)	supports only 61h(-31) – 9Fh(+31)	supports only 61h(-31) – 9Fh(+31)	supports only 41h(-63) – BFh(+63)	○	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
COLOR MATRIX R PHASE /COLOR CORRECTION R PHASE	OSD:87:[Data] QSD:87	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX R_YI GAIN /COLOR CORRECTION R_YI SATURATION	OSD:88:[Data] QSD:88	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 01h(-127) - FEh(+126)	---	---	---	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX R_YI PHASE /COLOR CORRECTION R_YI PHASE	OSD:89:[Data] QSD:89	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	---	---	---	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX YI GAIN /COLOR CORRECTION YI SATURATION	OSD:8A:[Data] QSD:8A	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 01h(-127) - FEh(+126)	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX YI PHASE /COLOR CORRECTION YI PHASE	OSD:8B:[Data] QSD:8B	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX YI_G GAIN /COLOR CORRECTION YI_G SATURATION	OSD:8C:[Data] QSD:8C	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 01h(-127) - FEh(+126)	---	---	---	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX YI_G PHASE /COLOR CORRECTION YI_G PHASE	OSD:8D:[Data] QSD:8D	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	---	---	---	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX G GAIN /COLOR CORRECTION G SATURATION	OSD:8E:[Data] QSD:8E	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 01h(-127) - FEh(+126)	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX G PHASE /COLOR CORRECTION G PHASE	OSD:8F:[Data] QSD:8F	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX G_Cy GAIN /COLOR CORRECTION G_Cy SATURATION	OSD:90:[Data] QSD:90	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 01h(-127) - FEh(+126)	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX G_Cy PHASE /COLOR CORRECTION G_Cy PHASE	OSD:91:[Data] QSD:91	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX Cy GAIN /COLOR CORRECTION Cy SATURATION	OSD:92:[Data] QSD:92	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 01h(-127) - FEh(+126)	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	supports only 41h(-63) - BFh(+63)	○	---	---
COLOR MATRIX Cy PHASE /COLOR CORRECTION Cy PHASE	OSD:93:[Data] QSD:93	01h - 80h - FFh	-127 - 0 - +127	---	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	supports only 41h(-63) - BFh(+63)	○	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
COLOR MATRIX Cy_B GAIN /COLOR CORRECTION Cy_G SATURATION	OSD:94:[Data] QSD:94	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 01h(-127) – FEh(+126)	---	---	---	supports only 41h(-63) – BFh(+63)	○	---	---
COLOR MATRIX Cy_B PHASE /COLOR CORRECTION Cy_B PHASE	OSD:95:[Data] QSD:95	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	○	---	---	---	supports only 41h(-63) – BFh(+63)	○	---	---
COLOR MATRIX B GAIN /COLOR CORRECTION B SATURATION	OSD:96:[Data] QSD:96	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 01h(-127) – FEh(+126)	supports only 61h(-31) – 9Fh(+31)	supports only 61h(-31) – 9Fh(+31)	supports only 61h(-31) – 9Fh(+31)	supports only 41h(-63) – BFh(+63)	○	---	---
COLOR MATRIX B PHASE /COLOR CORRECTION B PHASE	OSD:97:[Data] QSD97	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	○	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	○	---	---
COLOR MATRIX B_Mg GAIN /COLOR CORRECTION B_Mg SATURATION	OSD:80:[Data] QSD:80	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 01h(-127) – FEh(+126)	---	---	---	supports only 41h(-63) – BFh(+63)	○	---	---
COLOR MATRIX B_Mg PHASE /COLOR CORRECTION B_Mg PHASE	OSD:81:[Data] QSD:81	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	○	---	---	---	supports only 41h(-63) – BFh(+63)	○	---	---
COLOR MATRIX Mg GAIN /COLOR CORRECTION Mg SATURATION	OSD:82:[Data] QSD:82	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 01h(-127) – FEh(+126)	supports only 61h(-31) – 9Fh(+31)	supports only 61h(-31) – 9Fh(+31)	supports only 61h(-31) – 9Fh(+31)	supports only 41h(-63) – BFh(+63)	○	---	---
COLOR MATRIX Mg PHASE /COLOR CORRECTION Mg PHASE	OSD:83:[Data] QSD:83	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	○	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	○	---	---
COLOR MATRIX Mg_R GAIN /COLOR CORRECTION Mg_R SATURATION	OSD:84:[Data] QSD:84	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 01h(-127) – FEh(+126)	supports only 61h(-31) – 9Fh(+31)	supports only 61h(-31) – 9Fh(+31)	supports only 61h(-31) – 9Fh(+31)	supports only 41h(-63) – BFh(+63)	○	---	---
COLOR MATRIX Mg_R PHASE /COLOR CORRECTION Mg_R PHASE	OSD:85:[Data] QSD:85	01h – 80h – FFh	-127 – 0 – +127	---	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	○	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	supports only 41h(-63) – BFh(+63)	○	---	---
T PEDESTAL	OTP:[Data] QTP	000h – 096h – 12Ch 000h – 096h – 12Ch	-150 – 0 – +150 UE70series,HE75series,HE70series,HE60,HE50 -10 – 0 – 10	---	---	○	---	○	○	○	○	○	○	○

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
R GAIN	ORI:[Data] QRI	000h – 096h – 12Ch UE70series,HE75series,HE70series,HE60,HE50 000h – 096h – 12Ch	-150 – 0 – +150 -30 – 0 – 30	---	---	○	---	○	○	○	○	○	○	○
B GAIN	OBI:[Data] QBI	000h – 096h – 12Ch UE70series,HE75series,HE70series,HE60,HE50 000h – 096h – 12Ch	-150 – 0 – +150 -30 – 0 – 30	---	---	○	---	○	○	○	○	○	○	○
R PEDESTAL	ORP:[Data] QRP	000h – 096h – 12Ch	-150 – 0 – +150	---	supports only -100～+100	supports only -100～+100	---	---	---	---	supports only -100～+100	○	---	---
B PEDESTAL	OBP:[Data] QBP	000h – 096h – 12Ch	-150 – 0 – +150	---	supports only -100～+100	supports only -100～+100	---	---	---	---	supports only -100～+100	○	---	---
AUTO FOCUS	OAF:[Data] QAF	0 1	Manual FOCUS AUTO FOCUS	---	○	○	---	○	○	○	○	○	○	○
DIGITAL EXTENDER	ODE:[Data] QDE	0 1	OFF ON	---	On mean x1.4	○	○	○	○	○	○	---	---	---
FILTER	OFT:[Data] QFT	0 1 2 3 4 8	Clear 1/4 ND 1/16 ND 1/64 ND 1/8 ND Auto ND	---	supports only 0h: Clear(Through) 1h: 1/4 ND 2h: 1/16 ND 3h: 1/64 ND	supports only 0h: Clear 3h: 1/64 ND 4h: 1/8 ND	supports only 0h: Clear 1h: 1/4 ND 2h: 1/16 ND 3h: 1/64 ND	supports only 0h: Clear 1h: 1/4 ND 2h: 1/16 ND 3h: 1/64 ND 8h: Auto ND	supports only 0h: Clear 1h: 1/4 ND 2h: 1/16 ND 3h: 1/64 ND 8h: Auto ND	--	supports only 0h: Clear 3h: 1/64 ND 4h: 1/8 ND	supports only 0h: Clear 1h: 1/4 ND 2h: 1/16 ND 3h: 1/64 ND	---	---
RED TALLY	TLR:[Data] QLR OLR:[Data]	0 1	OFF ON	---	○	---	○	---	---	---	---	---	---	---
GREEN TALLY	TLG:[Data] QLG OLG:[Data]	0 1	OFF ON	---	○	---	○	---	---	---	---	---	---	---
M BLACK GAMMA	OSA:07:[Data] QSA:07	50h – 80h – B0h	-48 – 0 – +48	---	supports only 78h(-8) – 88h(+8)	---	○	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
R BLACK GAMMA	OSA:08:[Data] QSA:08	6Ch - 71h - 80h - 8Fh - 94h	-20 - -15 - 0 - +15 - +20	---	---	---	○	---	---	---	---	---	---	---
B BLACK GAMMA	OSA:09:[Data] QSA:09	6Ch - 71h - 80h - 8Fh - 94h	-20 - -15 - 0 - +15 - +20	---	---	---	○	---	---	---	---	---	---	---
GAMMA SW	OSA:0A:[Data] QSA:0A	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
BLACK GAMMA SW	OSA:0B:[Data] QSA:0B	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
DRS SW	OSA:0D:[Data] QSA:0D	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
BLACK STRETCH LEVEL(@FILM MENU & FILM REC)	OSA:0F:[Data] QSA:0F	00h - 1Eh	0 - 30	---	○	---	○	---	---	---	---	---	---	---
DYNAMIC LEVEL (@FILM MENU & FILM REC)	OSA:10:[Data] QSA:10	0 1 2 3 4	200% 300% 400% 500% 600%	---	○	---	supperts only 0(200%) - 3(500%)	---	---	---	---	---	---	---
M KNEE POINT (@VIDEO MENU)	OSA:20:[Data] QSA:20	22h - 80h - B6h - C2h	70.00% - 93.50% - 107.00% - 110.00% (1step=0.25%)	---	support only 22h(70.00%) - B6h(107.00%) (1step=0.5%)	support only 22h(70.00%) - B6h(107.00%) (1step=0.5%)	support only 4Ah(80.00%) - C2h(110.00%)	---	---	---	support only 22h(70.00%) - B6h(107.00%) (1step=0.5%)	---	---	---
M KNEE POINT (@FILM MENU & VIDEO REC)	OSA:21:[Data] QSA:21	62h - 80h - 9Eh - AFh	30% - 60% - 90% - 107%	---	○	---	support only 62(30%) - 9E(90%)	---	---	---	---	---	---	---
R KNEE POINT	OSA:22:[Data] QSA:22	1Ch - 80h - E4h	-25.00% - 0.00% - +25.00% (1step=0.25%)	---	---	---	○	---	---	---	---	---	---	---
B KNEE POINT	OSA:23:[Data] QSA:23	1Ch - 80h - E4h	-25.00% - 0.00% - +25.00% (1step=0.25%)	---	---	---	○	---	---	---	---	---	---	---
M KNEE SLOPE (@VIDEO MENU)	OSA:24:[Data] QSA:24	00h - 63h - C7h	0 - 99 - 199	---	support only 00h(0) - 63h(99)	support only 00h(0) - 63h(99)	○	---	---	---	support only 00h(0) - 63h(99)	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
M KNEE SLOPE (@FILM MENU & VIDEO REC)	OSA:25:[Data] QSA:25	7Ch - 80h - 85h	150% - 350% - 600% (1step=50%)	---	supports only 7Ch(150%) - 83h(500%)	---	○	---	---	---	---	---	---	---
R KNEE SLOPE (@VIDEO MENU)	OSA:26:[Data] QSA:26	1Dh - 80h - E3h	-99 - 0 - +99	---	---	---	○	---	---	---	---	---	---	---
B KNEE SLOPE (@VIDEO MENU)	OSA:27:[Data] QSA:27	1Dh - 80h - E3h	-99 - 0 - +99	---	---	---	○	---	---	---	---	---	---	---
A.KNEE POINT (@VIDEO MENU)	OSA:28:[Data] QSA:28	4Ah - 80h - B6h	80.00% - 93.50% - 107.00% (1step=0.25%)	---	---	---	○	---	---	---	---	---	---	---
A.KNEE LEVEL (@VIDEO MENU)	OSA:29:[Data] QSA:29	7Ch - 85h	100% - 109% (1step=1%)	---	---	---	○	---	---	---	---	---	---	---
M WHITE CLIP LEVEL	OSA:2A:[Data] QSA:2A	00h - 13h	90% - 109%	---	○	○	---	---	---	---	○	---	---	---
KNEE SW	OSA:2D:[Data] QSA:2D	0 1 2	OFF MANUAL AUTO	---	○	○	○	---	---	---	○	---	---	---
WHITE CLIP	OSA:2E:[Data] QSA:2E	0 1	OFF ON	---	○	○	---	---	---	---	○	---	---	---
TOTAL DTL LEVEL	OSA:30:[Data] QSA:30	61h - 80h - 9Fh 61h - 80h - 9Fh	-31 - 0 - +31 <u>AW-HE130,AW-HR140</u> 0 - +31 - +62	---	○	○	○	supports only 81h(1)-91h(17) for TOTAL DTL LEVEL (LOW)	supports only 81h(1)-91h(17) for TOTAL DTL LEVEL (LOW)	supports only 81h(1)-91h(17) for TOTAL DTL LEVEL (LOW)	○	---	supports only 81h(1)-91h(17) for TOTAL DTL LEVEL (LOW)	---
H DTL LEVEL	OSA:31:[Data] QSA:31	00h - 3Fh	0 - 63	---	---	---	○	---	---	---	---	---	---	---
DETAIL(+)	OSA:38:[Data] QSA:38	61h - 80h - 9Fh	-31 - 0 - +31	---	○	---	○	---	---	---	---	---	---	---
DETAIL(-)	OSA:39:[Data] QSA:39	61h - 80h - 9Fh	-31 - 0 - +31	---	○	---	○	---	---	---	---	---	---	---
DETAIL SOURCE	OSA:3B:[Data] QSA:3B	0 1 2 3 4 5	(G+R)/2 (G+B)/2 (2G+B+R)/4 (3G+R)/4 R G	---	---	---	○	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
SKIN TONE DETAIL (HD)	OSA:40:[Data] QSA:40	0 1	OFF ON	---	○	---	○	---	---	---	---	---	---	---
SKIN GET	OSA:41:[Data] QSA:41	0 1 2	OFF ON GET	---	---	---	○	---	---	---	---	---	---	---
SKIN TONE DTL I CENTER (HD)	OSA:45:[Data] QSA:45	00h - FFh	0 - 255	---	---	---	○	---	---	---	---	---	---	---
SKIN TONE DTL I WIDTH (HD)	OSA:46:[Data] QSA:46	00h - FFh	0 - 255	---	---	---	○	---	---	---	---	---	---	---
SKIN TONE DTL Q WIDTH (HD)	OSA:47:[Data] QSA:47	00h - FFh	0 - 255	---	---	---	○	---	---	---	---	---	---	---
SKIN TONE ZEBRA	OSA:49:[Data] QSA:49	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
LOW GAIN	OSA:50:[Data] QSA:50	7Ah - 7Ch - 80h - 86h - 88h	-6dB - 0dB - 12dB - 30dB - 36dB	---	---	---	○	---	---	---	---	---	---	---
MID GAIN	OSA:51:[Data] QSA:51	7Ah - 7Ch - 80h - 86h - 88h	-6dB - 0dB - 12dB - 30dB - 36dB	---	---	---	○	---	---	---	---	---	---	---
HIGH GAIN	OSA:52:[Data] QSA:52	7Ah - 7Ch - 80h - 86h - 88h	-6dB - 0dB - 12dB - 30dB - 36dB	---	---	---	○	---	---	---	---	---	---	---
MODE @S.GAIN	OSA:60:[Data] QSA:60	0 1 2	S.GAIN1 S.GAIN2 S.GAIN3	---	---	---	○	---	---	---	---	---	---	---
FRAME MIX@S.GAIN	OSA:65:[Data] QSA:65	00h 06h 0Ch 12h 18h 1Eh 80h	OFF +6dB +12dB +18dB +24dB +30dB AUTO	---	Support Only 00h(OFF)- 18h(+24dB)	Support Only 00h(OFF)- 18h(+24dB)	Support Only 00h(OFF)- 18h(+24dB)	Support Only 00h(OFF)- 18h(+24dB), 80h(AUTO)	Support Only 00h(OFF)- 18h(+24dB), 80h(AUTO)	Support Only 00h(OFF)- 18h(+24dB), 80h(AUTO)	Support Only 00h(OFF)- 18h(+24dB)	Support Only 00h(OFF)- 18h(+24dB)	Support Only 00h(OFF)- 12h(+18dB), 80h(AUTO)	Support Only 00h(OFF)- 12h(+18dB), 80h(AUTO)
M GAMMA @S.GAIN & DRS OFF	OSA:6A:[Data] QSA:6A	67h - 80h - 94h	0.30 - 0.55 - 0.75	---	○	○	---	---	---	---	○	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
MATRIX TABLE	OSA:00:[Data] QSA:00	0 1	TABLE A TABLE B	---	---	---	○	---	---	---	---	---	---	---
GAIN SELECT	OGS:[Data] QGS	01h 04h 08h 06h 0Ch 0Eh	LOW MID HIGH S.GAIN1 S.GAIN2 S.GAIN3	---	---	---	○	---	---	---	---	---	---	---
MATRIX TABLE	OSA:84:[Data] QSA:84	0 1 2	OFF ON ON	---	---	---	○	---	---	---	---	---	---	---
COLOR CORRECTION	OSA:85:[Data] QSA:85	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
FORMAT	OSA:87:[Data] QSA:87	※	※	※	※	※	※	※	※	※	※	※	※	※

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
STATUS	OSA:88:[Data] QSA:88	0 1	OFF ON	---	○	○	○	○	○	○	○	○	○	○
TOTAL DTL LEVEL HIGH	OSA:B1:[Data] QSA:B1	61h - 80h - 9Fh	-31 - 0 - +31	---	---	---	---	supports only 82h(2)-92h(18) for TOTAL DTL LEVEL (HIGH)	supports only 82h(2)-92h(18) for TOTAL DTL LEVEL (HIGH)	supports only 82h(2)-92h(18) for TOTAL DTL LEVEL (HIGH)	---	---	supports only 82h(2)-92h(18) for TOTAL DTL LEVEL (HIGH)	---
D/C MODE (D/C BOARD)	OSE:20:[Data] QSE:20	0 1 2 3	SIDE CUT SQUEEZE LetterBOX Link	---	---	---	---	---	---	---	○	○	○	○
CHARACTER MIX SELECT	OSD:98:[Data1]:[Data2] QSD:98:[Data1]	Data1 0 1 Data2 0 1 2	Output Browser/Video SDI/HDMI,Component Character Mix Select Off On Off By Browser	---	---	---	---	---	---	---	---	---	suports only Output 0(Browser/Video), 1(SDI/HDMI,Component) Character Mix Select 2(Off By Browser) is Valid When Output is 1(SDI/HDMI,Component)	---
ERROR NOTICE	QER OER:[Data]	0 1 2	Normal Fan Error Other Error	---	○	supports only 0(Normal) 1(Fan Error)	supports only 0(Normal) 1(Fan Error)	---	---	---	---	supports only 0(Normal) 1(Fan Error)	---	---
PRESET MATRIX SELECT	OSE:31:[Data] QSE:31	0 1 2 3	NORMAL EBU MATRIX NTSC MATRIX USER	---	○	○	---	○	○	○	○	○	○	suports only 0(NORMAL), 1(EBU MATRIX), 2(NTSC MATRIX)
SOFT SKIN	OSE:32:[Data] QSE:32	0 1 2 3	OFF LOW MID HIGH	---	---	---	---	supports only 0(OFF),1(LOW),3(HIGH)	supports only 0(OFF),1(LOW),3(HIGH)	supports only 0(OFF),1(LOW),3(HIGH)	---	---	supports only 0(OFF),1(LOW),3(HIGH)	supports only 0(OFF),1(LOW),3(HIGH)
DRS SELECT	OSE:33:[Data] QSE:33	0 1 2 3	OFF LOW(ON) MID HIGH	supports only 0(OFF) 1(ON)	○	○	---	supports only 0(OFF),1(LOW),3(HIGH)	supports only 0(OFF),1(LOW),3(HIGH)	supports only 0(OFF),1(LOW),3(HIGH)	○	○	supports only 0(OFF),1(LOW),3(HIGH)	supports only 0(OFF),1(LOW),3(HIGH)
HDMI COLOR VideoSampling	OSE:68:[Data] QSE:68	0 1 2 3 4	RGB(NOR) RGB(ENH) YPbPr(422) YPbPr(444) YPbPr(420)	---	supports only 2(YPbPr(422)) 4(YPbPr(420))	---	---	---	---	---	---	supports only 0(RGB(NOR)) 1(RGB(ENH)) 2(YPbPr(422)) 3(YPbPr(444))	supports only 0(RGB(NOR)) 1(RGB(ENH)) 2(YPbPr(422)) 3(YPbPr(444))	supports only 0(RGB(NOR)) 1(RGB(ENH)) 2(YPbPr(422)) 3(YPbPr(444))
PUSH AUTO FOCUS	OSE:69:[Data]	1	PUSH AUTO	---	○	○	---	○	○	○	○	○	○	○
DIGITAL ZOOM ENABLE	OSE:70:[Data] QSE:70	0 1	DISABLE ENABLE	○	[Zoom Mode] -Opt Zoom OSE:70:0 OSD:B3:0 -i Zoom OSE:70:0 OSD:B3:1 -D Zoom OSE:70:1 OSD:B3:0	○	---	○	○	○	○	○	○	○
PRESET SCOPE	OSE:71:[Data] QSE:71	0 1 2	MODE A MODE B MODE C	---	○	○	---	○	○	○	○	○	○	○

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
GAMMA TYPE	OSE:72:[Data] QSE:72	0 1 2 0 1 2 3 4 5 6 7	OFF NORMAL CINEMA AW-HE130,AW-HR140, AW-UE150 HD SD FILMLIKE1 FILMLIKE2 FILMLIKE3 FILM REC VIDEO REC HLG	---	○	supports only 0(HD) 2(FILMLIKE1) 3(FILMLIKE2) 4(FILMLIKE3)	---	○	○	○	supports only 0(HD) 1(SD) 2(FILMLIKE1) 3(FILMLIKE2) 4(FILMLIKE3)	○	○	○
BACK LIGHT COMPENSATION	OSE:73:[Data] QSE:73	0 1	OFF ON	○	---	---	---	○	○	○	---	---	○	○
AUTO F.MIX MAX GAIN	OSE:74:[Data] QSE:74	00 01 02 03	(OFF) 6dB 12dB 18dB	---	---	---	---	○	○	○	---	---	○	○
OSD Off With TALLY	OSE:75:[Data] QSE:75	0 1	OFF ON	○	○	○	---	○	○	○	○	○	○	○
DIGITAL ZOOM MAGNIFICATION	OSE:76:[Data] QSE:76	0100 - 9999	*1.00 - *99.99	---	supports only 0100(*1.00) - 1000(*10.00)	supports only 0100(*1.00) - 1000(*10.00)	---	supports only 0100(*1.00) - 1200(*12.00)	supports only 0100(*1.00) - 1200(*12.00)	supports only 0100(*1.00) - 1600(*16.00)	supports only 0100(*1.00) - 1000(*10.00)	supports only 0100(*1.00) - 1000(*10.00)	supports only 0100(*1.00) - 1000(*10.00)	supports only 0100(*1.00) - 1000(*10.00)
BASE FREQUENCY SELECT	OSE:77:[Data] QSE:77	0 1 2 3 4	59.94Hz 50.00Hz 24.00Hz 23.98Hz 60.00Hz	supports only 0(59.94Hz), 1(50.00Hz), 4(60.00Hz)	supports only 0(59.94Hz), 1(50.00Hz), 2(24.98Hz), 3(23.98Hz)	supports only 0(59.94Hz), 1(50.00Hz)	---	supports only 0(59.94Hz), 1(50.00Hz)	supports only 0(59.94Hz), 1(50.00Hz)	supports only 0(59.94Hz), 1(50.00Hz)	supports only 0(59.94Hz), 1(50.00Hz)	supports only 0(59.94Hz), 1(50.00Hz)	supports only 0(59.94Hz), 1(50.00Hz)	supports only 0(59.94Hz), 1(50.00Hz)
MAXIMUM DIGITAL ZOOM	OSE:7A:[Data] QSE:7A	02 - 18	x2 - x18	---	supports only 02(x2) - 10(x10)	supports only 02(x2) - 10(x10)	---	supports only 02:(x2) - 12(x12)	supports only 02:(x2) - 12(x12)	supports only 02(x2) - 16(x16)	supports only 02(x2) - 10(x10)	supports only 02(x2) - 10(x10)	---	---
RIGHT SW	DRT:[Data]	1h Ah	1Step 10Step	supports only 1h(1Step)	○	○	supports only 1h(1Step)	---	---	---	○	○	---	---
LEFT SW	DLT:[Data]	1h Ah	1Step 10Step	supports only 1h(1Step)	○	○	supports only 1h(1Step)	---	---	---	○	○	---	---
OIS(Optical Image Stabilizer)	OIS:[Data] QIS	0 1 [AW-HR140] 0 1 2	Off On [AW-HR140] Off OIS Dynamic I.S. System	---	○	○	---	○	○	○	○	---	---	---
OSD Mix	OSE:7B:[Data] QSE:7B	00h 01h 02h 04h 08h 10h 20h 40h	OSD Mix Off SDI On HDMI On Analog On Video On IP On 12G SDI/OPTICAL On MONI On ※bit0:SDI, bit1:HDMI, bit2:Analog, bit3:Video, bit4:IP, bit5:12G SDI/OPTICAL, bit6: MONI	---	supports only 00(OSD Mix Off) 01(SDI On) 02(HDMI On) 10(IP On) 20(12G SDI/OPTICAL ON) 40(MONI On)	supports only 00(OSD Mix Off) 01(SDI On) 10(IP On)	supports only 00(OSD Mix Off) 01(SDI On) 10(IP On)	---	---	---	supports only 00(OSD Mix Off) 01(SDI On) 02(HDMI On) 08(Video On) 10(IP On)	supports only 00(OSD Mix Off) 01(SDI On) 02(HDMI On) 04(Analog On) 08(Video On)	---	---
Flip Status	QFS OFS:[Data]	0 1	Normal Flip	---	○	○	---	---	---	---	○	○	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Focus ADJ With Zoom Mode	OAZ:[Data] QAZ	0 1	OFF ON	---	○	○	---	○	○	○	○	○	○	○
CHROMA LEVEL	OSD:B0:[Data] QSD:B0	00h 1Dh - 80h - A8h - E3h AK-UB300 00h 1Dh - 80h - A8h	OFF -99% - 0 - 40% - 99% AK-UB300 -100% -99% - 0 - 40%	---	○	supports only 00(Off), 1D(-99%) - A8(40%)	○	---	---	---	supports only 00(Off), 1D(-99%) - A8(40%)	---	---	---
COLOR TEMPERATURE	OSD:B1:[Data] QSD:B1	※	※	---	---	※	---	※	※	※	※	---	---	---
V DTL LEVEL	OSD:A1:[Data] QSD:A1	79h - 80h - 87h	-7 - 0 - 7	---	○	○	---	---	---	---	○	---	---	---
DETAIL BAND DETAIL FREQUENCY	OSD:A2:[Data] QSD:A2	79h - 80h - 87h	-7 - 0 - 7	---	○	○	---	---	---	---	○	---	---	---
FLESH NOISE SUPPRESS	OSD:A3:[Data] QSD:A3	80h - 9Fh	0 - 31	---	○	○	---	---	---	---	○	---	---	---
MATRIX(R-G)	OSD:A4:[Data] QSD:A4	41h - 80h - BFh	-63 - 0 - 63	---	○	○	---	---	---	---	○	---	---	---
MATRIX(R-B)	OSD:A5:[Data] QSD:A5	41h - 80h - BFh	-63 - 0 - 63	---	○	○	---	---	---	---	○	---	---	---
MATRIX(G-R)	OSD:A6:[Data] QSD:A6	41h - 80h - BFh	-63 - 0 - 63	---	○	○	---	---	---	---	○	---	---	---
MATRIX(G-B)	OSD:A7:[Data] QSD:A7	41h - 80h - BFh	-63 - 0 - 63	---	○	○	---	---	---	---	○	---	---	---
MATRIX(B-R)	OSD:A8:[Data] QSD:A8	41h - 80h - BFh	-63 - 0 - 63	---	○	○	---	---	---	---	○	---	---	---
MATRIX(B-G)	OSD:A9:[Data] QSD:A9	41h - 80h - BFh	-63 - 0 - 63	---	○	○	---	---	---	---	○	---	---	---
COLOR MATRIX Mg_R_R GAIN /COLOR CORRECTION Mg_R_R SATURATION	OSD:9A:[Data] QSD:9A	41h - 80h - BFh	-63 - 0 - +63	---	○	○	---	---	---	---	○	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
COLOR MATRIX Mg_R_R PHASE /COLOR CORRECTION Mg_R_R PHASE	OSD:9B:[Data] QSD:9B	41h - 80h - BFh	-63 - 0 - +63	---	○	○	---	---	---	---	○	---	---	---
COLOR MATRIX R_R_YI GAIN /COLOR CORRECTION R_R_YI SATURATION	OSD:9C:[Data] QSD:9C	41h - 80h - BFh	-63 - 0 - +63	---	○	○	---	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	○	---	---	---
COLOR MATRIX R_R_YI PHASE /COLOR CORRECTION R_R_YI PHASE	OSD:9D:[Data] QSD:9D	41h - 80h - BFh	-63 - 0 - +63	---	○	○	---	○	○	○	○	---	---	---
COLOR MATRIX R_YI_YI GAIN /COLOR CORRECTION R_YI_YI SATURATION	OSD:9E:[Data] QSD:9E	41h - 80h - BFh	-63 - 0 - +63	---	○	○	---	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	supports only 61h(-31) - 9Fh(+31)	○	---	---	---
COLOR MATRIX R_YI_YI PHASE /COLOR CORRECTION R_YI_YI PHASE	OSD:9F:[Data] QSD:9F	41h - 80h - BFh	-63 - 0 - +63	---	○	○	---	○	○	○	○	---	---	---
AUDIO	OSA:D0:[Data] QSA:D0	0 1	OFF ON	○	○	○	---	○	○	○	○	---	---	---
AUDIO INPUT VOLUME	OSA:D1:[Data] QSA:D1	0 1 2 3 4 5	Mic High Mic Middle Mic Low Line High Line Middle Line Low	---	supports only 0(Mic) 3(Line)	---	---	○	○	○	○	---	---	---
AUDIO PLUGIN POWER	OSA:D2:[Data] QSA:D2	0 1	OFF ON	---	○	---	---	○	○	○	○	---	---	---
TALLY BRIGHTNESS	OSA:D3:[Data] QSA:D3	0 1 2	LOW MID HIGH	---	○	---	---	---	---	---	○	---	---	---
NIGHT MODE SEL	OSD:B2:[Data] QSD:B2	0 1	Manual Auto	---	---	---	---	○	○	○	---	---	---	---
i. ZOOM	OSD:B3:[Data] QSD:B3	0 1	DISABLE ENABLE	---	[Zoom Mode] -Opt Zoom OSE:70:0 OSD:B3:0 -i Zoom OSE:70:0 OSD:B3:1 -D Zoom OSE:70:1 OSD:B3:0	---	---	○	○	○	---	---	---	---
HDR	OSD:B4:[Data] QSD:B4	0 1 2 3	Off Low Mid High	---	---	---	---	supports only 0(OFF),1(LOW),3(HIGH)	supports only 0(OFF),1(LOW),3(HIGH)	supports only 0(OFF),1(LOW),3(HIGH)	---	---	---	---
COLOR MATRIX Cy_Cy_B GAIN /COLOR CORRECTION Cy_Cy_B SATURATION	OSD:AA:[Data] QSD:AA	61h - 80h - 9Fh	-31 - 0 - +31	---	---	---	---	○	○	○	---	---	---	---
COLOR MATRIX Cy_Cy_B PHASE /COLOR CORRECTION Cy_Cy_B PHASE	OSD:AB:[Data] QSD:AB	41h - 80h - BFh	-63 - 0 - +63	---	---	---	---	○	○	○	---	---	---	---
COLOR MATRIX Cy_B_B GAIN /COLOR CORRECTION Cy_B_B SATURATION	OSD:AC:[Data] QSD:AC	61h - 80h - 9Fh	-31 - 0 - +31	---	---	---	---	○	○	○	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
COLOR MATRIX Cy_B_B PHASE /COLOR CORRECTION Cy_B_B PHASE	OSD:AD:[Data] QSD:AD	41h - 80h - BFh	-63 - 0 - +63	---	---	---	---	○	○	○	---	---	---	---
COLOR MATRIX B_B_Mg GAIN /COLOR CORRECTION B_B_Mg SATURATION	OSD:C0:[Data] QSD:C0	61h - 80h - 9Fh	-31 - 0 - +31	---	---	---	---	○	○	○	---	---	---	---
COLOR MATRIX B_B_Mg PHASE /COLOR CORRECTION B_B_Mg PHASE	OSD:C1:[Data] QSD:C1	41h - 80h - BFh	-63 - 0 - +63	---	---	---	---	○	○	○	---	---	---	---
COLOR MATRIX B_Mg_Mg GAIN /COLOR CORRECTION B_Mg_Mg SATURATION	OSD:C2:[Data] QSD:C2	61h - 80h - 9Fh	-31 - 0 - +31	---	---	---	---	○	○	○	---	---	---	---
COLOR MATRIX B_Mg_Mg PHASE /COLOR CORRECTION B_Mg_Mg PHASE	OSD:C3:[Data] QSD:C3	41h - 80h - BFh	-63 - 0 - +63	---	---	---	---	○	○	○	---	---	---	---
COLOR MATRIX Yl_Yl_G GAIN /COLOR CORRECTION Yl_Yl_G SATURATION	OSD:C4:[Data] QSD:C4	61h - 80h - 9Fh	-31 - 0 - +31	---	---	---	---	○	○	○	---	---	---	---
COLOR MATRIX Yl_Yl_G PHASE /COLOR CORRECTION Yl_Yl_G PHASE	OSD:C5:[Data] QSD:C5	41h - 80h - BFh	-63 - 0 - +63	---	---	---	---	○	○	○	---	---	---	---
COLOR MATRIX Yl_G_G GAIN /COLOR CORRECTION Yl_G_G SATURATION	OSD:C6:[Data] QSD:C6	61h - 80h - 9Fh	-31 - 0 - +31	---	---	---	---	○	○	○	---	---	---	---
COLOR MATRIX Yl_G_G PHASE /COLOR CORRECTION Yl_G_G PHASE	OSD:C7:[Data] QSD:C7	41h - 80h - BFh	-63 - 0 - +63	---	---	---	---	○	○	○	---	---	---	---
NIGHT-DAY LEVEL	OSD:B7:[Data] QSD:B7	0 1 2	Low Mid High	---	---	---	---	○	○	○	---	---	---	---
Digital Extender Magnification	OSD:B8:[Data] QSD:B8	0 1 2 3 4	x1.4 x2.0 x4.0 x6.0 x8.0	---	---	---	---	○	○	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Format_SDI	OSD:B9:[Data] QSD:B9	0h 1h 2h 3h 4h 5h 6h 7h 8h 9h Ah Bh Ch Dh Eh 10h 11h 12h 13h 14h 15h 16h	720/60p 720/59.94p 720/50p 1080/60i 1080/59.94i 1080/50i 1080/30psF 1080/29.97psF 1080/25psF 1080/24psF 1080/23.98psF 480/59.94i 480/29.97psF 576/50i 576/25psF 1080/59.94p 1080/50p 480/59.94p 576/50p 1080/29.97p 1080/25p 1080/23.98p	---	---	---	---	[59.94Hz] supports only 1h(720/59.94p) 4h(1080/59.94i) 7h(1080/29.97psF) 10h(1080/59.94p) 14h(1080/29.97p) [50Hz] supports only 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 11h(1080/50p) 15h(1080/25p)	[59.94Hz] supports only 1h(720/59.94p) 4h(1080/59.94i) 7h(1080/29.97psF) 10h(1080/59.94p) 14h(1080/29.97p) [50Hz] supports only 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 11h(1080/50p) 15h(1080/25p)	---	---	---	---	---
Color Bars Type	OSD:BA:[Data] QSD:BA	0 1	TYPE2(Full BAR/EBU) TYPE1(SMPTE)	---	○	---	---	○	○	V1.21+AW-SFU01	---	---	---	---
ALC	OSD:BB:[Data] QSD:BB	0 1	OFF ON	---	---	---	---	○	○	V1.21+AW-SFU01	---	---	---	---
Equalize	OSD:BC:[Data] QSD:BC	0 1 2	OFF LowCUT VOICE	---	---	---	---	○	○	V1.21+AW-SFU01	---	---	---	---
Bars Title	OSD:BE:[Data] QSD:BE	0 1	OFF ON	---	---	---	---	○	○	V1.21+AW-SFU01	---	---	---	---
AutoShutterLimit	OSD:BF:[Data] QSD:BF	0 1 2 3 4 2 3 4	[59.94Hz] [50Hz] Off Off 1/60 1/50 1/100 1/100 1/120 1/125 1/250 1/250 <u>AW-UE150</u> 1/100 1/120 1/250	---	○	---	---	○	○	---	---	---	---	---
E.DRS SELECT	OSD:C8:[Data] QSD:C8	0 1 2 3	OFF LOW MID HIGH	---	---	---	---	supports only 0(OFF), 1(LOW), 3(HIGH)	supports only 0(OFF), 1(LOW), 3(HIGH)	supports only 0(OFF), 1(LOW), 3(HIGH)	---	---	---	---
SOFTWARE VERSION	QSI:19:[Data1] OSI:19:[Data1]:[Data2]	[Data1] 0 1 2 3 4 5 6 [Data2] (Ver.String)	[Data1] SYSTEM VERSION CAM MAIN NETWORK ROM TABLE CAM FPGA AVIO FPGA OPTION FPGA [Data2] (ex) 01.00-000-00.00	---	---	---	○	---	---	---	---	---	---	---
Request Zoom/Focus/Iris Position (Output D/A Data)	QSI:18 OSI:18:[Data1]:[Data2]:[Data3]	[Data1] 555h – FFFh [Data2] 555h – FFFh [Data3] 555h – FFFh	[Data1]Zoom Position Wide – Tele [Data2]Focus Position Near – Far [Data3]Iris Position Close – Open	---	---	---	○	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
A.IRIS LEVEL	OSI:1D:[Data] QSI:1D	00h – 64h	0 – 100	---	---	---	○	---	---	---	---	---	---	---
Request IRIS F No.	QIF OIF:[Data]	0Eh(=14) – 1Ch(=28) – 38h(=56) – A0h(=160) – FFh	F1.4 – F2.8 – F5.6 – F16 – CLOSE	---	○	---	○	---	---	---	---	---	---	---
SHUTTER SW	OSG:59:[Data] QSG:59	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
SHUTTER MODE	OSG:5A:[Data] QSG:5A	0 1	SHUTTER SYNC	---	---	---	○	---	---	---	---	---	---	---
SHUTTER SPEED	OSG:5D:[Data] QSG:5D	※	※	---	---	---	※	---	---	---	---	---	---	---
R GAIN	OSG:39:[Data] QSG:39	418h – 800h – BE8h	-1000 – 0 – 1000	---	V1.00 support only 738h(-200) – 8C8h(200)	---	○	---	---	---	---	---	---	---
B GAIN	OSG:3A:[Data] QSG:3A	418h – 800h – BE8h	-1000 – 0 – 1000	---	V1.00 support only 738h(-200) – 8C8h(200)	---	○	---	---	---	---	---	---	---
M-PED	OSG:4A:[Data] QSG:4A	1Dh – 80h – E3h	-99 – 0 – 99	---	---	---	○	---	---	---	---	---	---	---
R PEDESTAL	OSG:4C:[Data] QSG:4C	4E0h – 800h – B20h	-800 – 0 – 800	---	---	---	○	---	---	---	---	---	---	---
B PEDESTAL	OSG:4E:[Data] QSG:4E	4E0h – 800h – B20h	-800 – 0 – 800	---	---	---	○	---	---	---	---	---	---	---
MATRIX	OSG:A0:[Data] QSG:A0	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
MATRIX (R-G)_N	OSG:A5:N:[Data] OSG:A5:[N|P]:[Data] QSG:A5:N	00h – 1Fh – 3Eh	-31 – 0 – +31	---	---	---	○	---	---	---	---	---	---	---
MATRIX (R-G)_P	OSG:A5:P:[Data] OSG:A5:[N|P]:[Data] QSG:A5:P	00h – 1Fh – 3Eh	-31 – 0 – +31	---	---	---	○	---	---	---	---	---	---	---
MATRIX (R-B)_N	OSG:A6:N:[Data] OSG:A6:[N|P]:[Data] QSG:A6:N	00h – 1Fh – 3Eh	-31 – 0 – +31	---	---	---	○	---	---	---	---	---	---	---
MATRIX (R-B)_P	OSG:A6:P:[Data] OSG:A6:[N|P]:[Data] QSG:A6:P	00h – 1Fh – 3Eh	-31 – 0 – +31	---	---	---	○	---	---	---	---	---	---	---
MATRIX (G-R)_N	OSG:A7:N:[Data] OSG:A7:[N|P]:[Data] QSG:A7:N	00h – 1Fh – 3Eh	-31 – 0 – +31	---	---	---	○	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
MATRIX (G-R)_P	OSG:A7:P:[Data] OSG:A7:[N|P]:[Data] QSG:A7:P	00h - 1Fh - 3Eh	-31 - 0 - +31	---	---	---	○	---	---	---	---	---	---	---
MATRIX (G-B)_N	OSG:A8:N:[Data] OSG:A8:[N|P]:[Data] QSG:A8:N	00h - 1Fh - 3Eh	-31 - 0 - +31	---	---	---	○	---	---	---	---	---	---	---
MATRIX (G-B)_P	OSG:A8:P:[Data] OSG:A8:[N|P]:[Data] QSG:A8:P	00h - 1Fh - 3Eh	-31 - 0 - +31	---	---	---	○	---	---	---	---	---	---	---
MATRIX (B-R)_N	OSG:A9:N:[Data] OSG:A9:[N|P]:[Data] QSG:A9:N	00h - 1Fh - 3Eh	-31 - 0 - +31	---	---	---	○	---	---	---	---	---	---	---
MATRIX (B-R)_P	OSG:A9:P:[Data] OSG:A9:[N|P]:[Data] QSG:A9:P	00h - 1Fh - 3Eh	-31 - 0 - +31	---	---	---	○	---	---	---	---	---	---	---
MATRIX (B-G)_N	OSG:AA:N:[Data] OSG:AA:[N|P]:[Data] QSG:AA:N	00h - 1Fh - 3Eh	-31 - 0 - +31	---	---	---	○	---	---	---	---	---	---	---
MATRIX (B-G)_P	OSG:AA:P:[Data] OSG:AA:[N|P]:[Data] QSG:AA:P	00h - 1Fh - 3Eh	-31 - 0 - +31	---	---	---	○	---	---	---	---	---	---	---
COLOR CORRECT TABLE	OSG:A4:[Data] QSG:A4	0 1	A B	---	---	---	○	---	---	---	---	---	---	---
SKIN AREA SW	OSG:B0:[Data] QSG:B0	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
SKIN AREA TABLE	OSG:B1:[Data] QSG:B1	0 1	A B	---	---	---	○	---	---	---	---	---	---	---
SKIN AREA HUE	OSG:B2:[Data] QSG:B2	01h - 80h - FFh	-127 - 0 - +127	---	---	---	○	---	---	---	---	---	---	---
SKIN AREA TONE	OSG:B3:[Data] QSG:B3	01h - 80h - FEh	-127 - 0 - +126	---	---	---	○	---	---	---	---	---	---	---
CHROMA LEVEL SWITCH	OSG:93:[Data] QSG:93	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
COLOR TEMPERATURE INC	OSI:1E:[Data]	1h - Ah	INC 1 - INC 10	---	○	---	supports only 1h(INC 1)	---	---	---	---	---	---	---
COLOR TEMPERATURE DEC	OSI:1F:[Data]	1h - Ah	DEC 1 - DEC 10	---	○	---	supports only 1h(DEC 1)	---	---	---	---	---	---	---
COLOR TEMPERATURE	OSI:20:[Data1]:[Data2] QSI:20	[Data1] 00000h - FFFFFh [Data2] 0h 1h 2h	[Data1] OK - 1048575K [Data2] Valid Under Over	---	[Data1] supports only 007D0h(2000K) - 03A98h(15000K) [Data2] supports only 0(valid)	---	supports only Confirmation Command	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
V DETAIL LEVEL	OSG:32:[Data] QSG:32	00h – 3Fh	00 – 63	---	---	---	○	---	---	---	---	---	---	---
PEAK FREQUENCY	OSG:30:[Data] QSG:30	00h – 04h – 1Fh	0 – 4 – 31	---	---	---	[In case HD format] 00h(0) - 1Fh(31) [In case 4K format] 00h(0) - 04h(4)	---	---	---	---	---	---	---
V DETAIL FREQUENCY	OSG:35:[Data] QSG:35	00h – 04h – 1Fh	0 – 4 – 31	---	---	---	[In case HD format] 00h(0) - 1Fh(31) [In case 4K format] 00h(0) - 04h(4)	---	---	---	---	---	---	---
DETAIL +CLIP	OSG:40:[Data] QSG:40	00h – 3Fh	0 – 63	---	---	---	○	---	---	---	---	---	---	---
DETAIL -CLIP	OSG:41:[Data] QSG:41	00h – 3Fh	0 – 63	---	---	---	○	---	---	---	---	---	---	---
KNEE APERTURE LEVEL	OSG:3F:[Data] QSG:3F	00h – 27h	0 – 39	---	supports only 00h(0) - 05h(5)	---	○	---	---	---	---	---	---	---
LEVEL DEPENDENT SWITCH	OSG:3E:[Data] QSG:3E	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
MEMORY SELECT	OSG:42:[Data] QSG:42	0 1 2	A B C	---	---	---	○	---	---	---	---	---	---	---
H POSITION	OSG:44:[Data] QSG:44	000h – 190h	0 – 100.00% (0.25% Step)	---	---	---	○	---	---	---	---	---	---	---
V POSITION	OSG:45:[Data] QSG:45	000h – 190h	0 – 100.00% (0.25% Step)	---	---	---	○	---	---	---	---	---	---	---
ZEBRA EFFECT MEMORY	OSG:47:[Data] QSG:47	0 1 2 3 4 5 6	A B C A+B A+C B+C A+B+C	---	---	---	○	---	---	---	---	---	---	---
SKIN TONE EFFECT MEMORY	OSG:48:[Data] QSG:48	0 1 2 3 4 5 6	A B C A+B A+C B+C A+B+C	---	---	---	○	---	---	---	---	---	---	---
SKIN TONE CRISP	OSG:49:[Data] QSG:49	41h – 80h – BFh	-63 – 0 – +63	---	---	---	○	---	---	---	---	---	---	---
SKIN TONE Q PHASE	OSG:4F:[Data] QSG:4F	000h – 167h	0 – 359	---	---	---	○	---	---	---	---	---	---	---
DNR LEVEL	OSG:B5:[Data] QSG:B5	1 – 5	1 – 5	---	---	---	○	---	---	---	---	---	---	---
HAZE REDUCTION	OSG:B6:[Data] QSG:B6	0 1	OFF ON	---	---	○	○	---	---	---	---	---	---	---
HAZE REDUCTION LEVEL	OSG:B7:[Data] QSG:B7	1 – 3	1 – 3	---	---	○	○	---	---	---	---	---	---	---
GEN-LOCK INPUT	OSG:CA:[Data] QSG:CA	0 1	BNC DSUB	---	---	---	○	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
H PHASE-COARSE	OSG:CB:[Data] QSG:CB	3h - 8h - Dh	-5 - 0 - +5	---	---	---	○	---	---	---	---	---	---	---
H PHASE-FINE	OSG:CC:[Data] QSG:CC	1Ch - 80h - E4h	-100 - 0 - +100	---	---	---	○	---	---	---	---	---	---	---
CROP OUT SEL	OSI:16:[Data] QSI:16	1 2 3	YL G MG	---	○	---	○	---	---	---	---	---	---	---
CROP ADJ SEL	OSI:17:[Data] QSI:17	1 2 3	YL G MG	---	○	---	○	---	---	---	---	---	---	---
CROP H/V POSITION Speed Control	OSI:15:[Data1]:[Data2]	[Data1] 01 - 50 - 99 [Data2] 01 - 50 - 99	[Data1] Left Max. Speed - Stop - Right Max. Speed [Data2] Down Max. Speed - Stop - UP Max. Speed	---	○	---	○	---	---	---	---	---	---	---
CROP MARKER SEL	OSI:1A:[Data] QSI:1A	0 1 2 3 4 5 6 7	OFF YL G MG YL+G YL+MG G+MG YL+G+MG	---	○	---	supports only 1(YL) 2(G) 3(MG) 4(YL+G) 5(YL+MG) 6(G+MG) 7(YL+G+MG)	---	---	---	---	---	---	---
CROP H POSITION	OSI:1B:[Data] QSI:1B	738h - 800h - 8C8h	-50% - 0% - +50% (0.25% Step)	---	---	---	○	---	---	---	---	---	---	---
CROP V POSITION	OSI:1C:[Data] QSI:1C	738h - 800h - 8C8h	-50% - 0% - +50% (0.25% Step)	---	---	---	○	---	---	---	---	---	---	---
Preset Digital Extender Enable	OSE:7C:[Data] QSE:7C	0 1	OFF ON	---	○	○	---	---	---	---	○	---	---	---
Preset Zoom Mode	OSE:7D:[Data] QSE:7D	0 1	Mode A Mode B	---	○	○	---	---	---	---	---	---	---	---
Super Gain	OSI:28:[Data] QSI:28	0 1	OFF ON	---	○	○	---	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
ATW Speed	OSI:25:[Data] QSI:25	0 1 2	Normal Slow Fast	---	○	○	---	---	---	---	---	---	---	---
ATW Width	OSI:26:[Data] QSI:26	1 2 3 4 5	1 2 3 4 5	---	---	○	---	---	---	---	---	---	---	---
Intelligent	OSI:21:[Data] QSI:21	0 1 2	Off On Lock	---	---	○	---	---	---	---	---	---	---	---
Intelligent Mode	OSI:22:[Data] QSI:22	0 1	AE AE+ATW	---	---	○	---	---	---	---	---	---	---	---
Intelligent ND Filter	OSI:23:[Data] QSI:23	0 1 2 3	Through 1/8 1/64 Auto	---	---	○	---	---	---	---	---	---	---	---
Intelligent AGC Mode	OSI:24:[Data] QSI:24	0 1 2	Normal Sports SN	---	---	○	---	---	---	---	---	---	---	---
3G SDI Out	OSI:29:[Data] QSI:29	0 1	Level A Level B	---	○	○	---	---	---	---	---	---	---	---
Option Device Type	QSI:2A OSI:2A:[Data]	[AK-UB300] 0 1 2 3	[AK-UB300] no option 4K default 12G option TICO option	---	---	---	○	---	---	---	---	---	---	---
Audio Line Input Level	OSA:D4:[Data1]:[Data2] QSA:D4:[Data1]	[Data1] 0 1 [Data2] 0 1 2	[Data1] CH1/CH3 CH2/CH4 [Data2] +4dB 0dB -20dB	---	---	○	---	---	---	---	---	---	---	---
Audio Output Volume	OSA:D5:[Data1]:[Data2] QSA:D5:[Data1]	[Data1] 0 1 2 3 [Data2] 58h - 80h - 8Ch	[Data1] CH1 CH2 CH3 CH4 [Data2] -40dB - 0dB - 12dB	---	[Data1] supports only 0(CH1) [Data2] supports only 5Ch(-36dB) - 8C(12dB)	○	---	---	---	---	---	---	---	---
Audio Head Room	OSA:D6:[Data] QSA:D6	0 1 2	FS-12dB FS-18dB FS-20dB	---	---	○	---	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Audio Line CH Select	OSA:D7:[Data] QSA:D7	0 1 2 3	All CH1/CH2 CH3/CH4 None	---	---	○	---	---	---	---	---	---	---	---
DC Out	OSI:2B:[Data] QSI:2B	0 1	OFF ON	---	---	○	---	---	---	---	---	---	---	---
HDR SW (MAIN)	OSI:2C:[Data] QSI:2C	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
COLORIMETRY	OSI:2D:[Data] QSI:2D	00h 01h	no effect BT.709	---	---	---	○	---	---	---	---	---	---	---
HDR SW (SDI1)	OSI:2E:[Data] QSI:2E	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
HDR SW (LAN)	OSI:2F:[Data] QSI:2F	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
SHOOTING MODE	OSI:30:[Data] QSI:30	0 1	NORMAL HIGH SENS.	---	○	---	○	---	---	---	---	---	---	---
HDR SW (SDI2)	OSI:31:[Data] QSI:31	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
HD-SDI2 OUT SEL	OSI:32:[Data] QSI:32	0 1	FULL CROP	---	○	---	○	---	---	---	---	---	---	---
LAN OUT SEL	OSI:33:[Data] QSI:33	0 1	FULL CROP	---	○	---	○	---	---	---	---	---	---	---
MASTER FLARE	OSG:96:[Data] QSG:96	1Ch - 80h - E4h	-100 - 0 - 100	---	---	---	○	---	---	---	---	---	---	---
GAMMA MODE SELECT	OSG:86:[Data] QSG:86	0 1 2 3 4 5	HD FILMLIKE1 FILMLIKE2 FILMLIKE3 FILM REC VIDEO REC	---	---	---	○	---	---	---	---	---	---	---
MASTER GAMMA INC	OSI:37:[Data]	1	INC	---	---	---	○	---	---	---	---	---	---	---
MASTER GAMMA DEC	OSI:38:[Data]	1	DEC	---	---	---	○	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
MASTER GAMMA	QSI:34 OSI:34:[Data]	05DCh – 1194h – 1D4Ch	0.1500 – 0.4500 – 0.7500	---	---	---	○	---	---	---	---	---	---	---
R GAMMA	OSI:35:[Data] QSI:35	35h – 80h – CBh	-75 – 0 – +75	---	---	---	○	---	---	---	---	---	---	---
B GAMMA	OSI:36:[Data] QSI:36	35h – 80h – CBh	-75 – 0 – +75	---	---	---	○	---	---	---	---	---	---	---
A.KNEE RESPONSE	OSG:97:[Data] QSG:97	1 – 8	1 – 8	---	○	---	○	---	---	---	---	---	---	---
HLG MODE (HDR PAINT)	OSI:39:[Data] QSI:39	0 1	FIX VAR	---	---	---	○	---	---	---	---	---	---	---
SDR CONVERT MODE (HDR PAINT)	OSI:3A:[Data] QSI:3A	0 1	FIX VAR	---	---	---	○	---	---	---	---	---	---	---
HLG TYPE SELECT (HDR PAINT)	OSI:3B:[Data] QSI:3B	0 1	NORMAL STRETCH	---	---	---	○	---	---	---	---	---	---	---
BLACK GAMMA SW (HDR PAINT)	OSI:3C:[Data] QSI:3C	0 1	OFF ON	---	---	---	○	---	---	---	---	---	---	---
MASTER BLACK GAMMA (HDR PAINT)	OSI:3D:[Data] QSI:3D	60h – 80h – A0h	-32 – 0 – +32	---	---	---	○	---	---	---	---	---	---	---
R BLACK GAMMA (HDR PAINT)	OSI:3E:[Data] QSI:3E	60h – 80h – A0h	-32 – 0 – +32	---	---	---	○	---	---	---	---	---	---	---
B BLACK GAMMA (HDR PAINT)	OSI:3F:[Data] QSI:3F	60h – 80h – A0h	-32 – 0 – +32	---	---	---	○	---	---	---	---	---	---	---
KNEE SW (HDR PAINT)	OSI:40:[Data] QSI:40	0 1	OFF ON	---	○	---	○	---	---	---	---	---	---	---
KNEE POINT (HDR PAINT)	OSI:41:[Data] QSI:41	1Ch – 30h – 80h – D0h – F4h	55.00% – 60.00% – 80.00% – 100.00% – 109.00% (1step=0.25%)	---	suppurt only 1Ch(55%) – D0(100%) (1step=1%)	---	suppurt only 30h(60%) – D0(100%)	---	---	---	---	---	---	---
KNEE SLOPE (HDR PAINT)	OSI:42:[Data] QSI:42	00h – C7h	0 – 199	---	supports only 00h – 64h	---	○	---	---	---	---	---	---	---
SDR CONVERT GAIN (HDR PAINT)	OSI:43:[Data] QSI:43	74h 77h 7Ah 7Dh 80h	-12 -9 -6 -3 0	---	---	---	○	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
SDR CONVERT CLIP (HDR PAINT)	OSI:44:[Data] QSI:44	0 1 2	LOW MID HIGH	---	---	---	○	---	---	---	---	---	---	---
ERROR INFORMATION	QSI:46 OSI:46:[Data]	00000000h 00000001h 00000002h 00000004h 00000008h 00000010h	No Error Fan Error High Temperature Lens Error Pan/Tilt Error Sensor Error ※bit0:Fan Error, bit1:High Temperature, bit2:Lens Error, bit3:Pan/Tilt Error, bit4:Sensor Error	---	○	---	---	---	---	---	---	---	---	---
Auto Iris Speed	OSJ:01:[Data] QSJ:01	0h 1h 2h	Slow Normal Fast	---	○	---	---	---	---	---	---	---	---	---
Auto Iris Window	OSJ:02:[Data] QSJ:02	0h 1h 2h	Normal1 Normal2 Center	---	○	---	---	---	---	---	---	---	---	---
Shutter Mode	OSJ:03:[Data] QSJ:03	0h 1h 2h 3h	Off Step Synchro ELC	supports only 0(Off) 1(Step)	○	---	---	---	---	---	---	---	---	---
Step INC	OSJ:04:[Data]	01h - 64h	1 - 100	○	○	---	---	---	---	---	---	---	---	---
Step DEC	OSJ:05:[Data]	01h - 64h	1 - 100	○	○	---	---	---	---	---	---	---	---	---
Step VAL	OSJ:06:[Data] QSJ:06	0001h - 2710 h - 3E80h	1/1 - 1/10000 - 1/16000	○	supports only 0001h(1/1) - 2710h(1/10000)	---	---	---	---	---	---	---	---	---
Synchro INC	OSJ:07:[Data]	01h - 64h	1 - 100	---	○	---	---	---	---	---	---	---	---	---
Synchro DEC	OSJ:08:[Data]	01h - 64h	1 - 100	---	○	---	---	---	---	---	---	---	---	---
Synchro VAL	OSJ:09:[Data] QSJ:09	00000h - 186A0h	0.0 [Hz] - 10000.0[Hz]	---	supports only [59.94p/59.94i] 60.0Hz - 7200.0Hz [29.97p] 30.0Hz - 7200.0Hz [23.98p/24p] 24.0Hz - 7200.0Hz [50p/50i] 50.0Hz～7200.0Hz [25p] 25.0Hz～7200.0Hz	---	---	---	---	---	---	---	---	---
Chroma Phase	OSJ:0B:[Data] QSJ:0B	61h - 80h - 9Fh	-31 - 0 - +31	---	○	---	---	---	---	---	---	---	---	---
AWB Gain Offset	OSJ:0C:[Data] QSJ:0C	0h 1h	Off On	---	○	---	---	---	---	---	---	---	---	---
ATW Target R	OSJ:0D:[Data] QSJ:0D	76h - 80h - 8Ah	-10 - 0 - +10	---	○	---	---	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
ATW Target B	OSJ:0E:[Data] QSJ:0E	76h – 80h – 8Ah	-10 – 0 – +10	---	○	---	---	---	---	---	---	---	---	---
Master Pedestal	OSJ:0F:[Data] QSJ:0F	738h – 800h – 8C8h	-200 – 0 – +200	---	○	---	---	---	---	---	---	---	---	---
G Pedestal	OSJ:10:[Data] QSJ:10	032h – 096h – 0FAh	-100 – 0 – +100	---	○	---	---	---	---	---	---	---	---	---
Pedestal Offset	OSJ:11:[Data] QSJ:11	0 1	Off On	---	○	---	---	---	---	---	---	---	---	---
Detail Coring	OSJ:12:[Data] QSJ:12	00h – 3Ch	0 – 60	---	○	---	---	---	---	---	---	---	---	---
Level Depend.	OSJ:13:[Data] QSJ:13	79h – 80h – 87h	-7 – 0 – 7	---	○	---	---	---	---	---	---	---	---	---
DownCon Detail	OSJ:14:[Data] QSJ:14	0h 1h	OFF ON	---	○	---	---	---	---	---	---	---	---	---
DC. Master Detail	OSJ:15:[Data] QSJ:15	61h – 80h – 9Fh	-31 – 0 – +31	---	○	---	---	---	---	---	---	---	---	---
DC. Detail Coring	OSJ:16:[Data] QSJ:16	00h – 3Ch	0 – 60	---	○	---	---	---	---	---	---	---	---	---
DC. V Detail Level	OSJ:17:[Data] QSJ:17	79h – 80h – 87h	-7 – 0 – +7	---	○	---	---	---	---	---	---	---	---	---
DC. Detail Frequency	OSJ:18:[Data] QSJ:18	7Eh – 80h – 82h	-2 – 0 – +2	---	○	---	---	---	---	---	---	---	---	---
DC. Level Depend.	OSJ:19:[Data] QSJ:19	79h – 80h – 87h	-7 – 0 – +7	---	○	---	---	---	---	---	---	---	---	---
DC. Knee Ape Level	OSJ:1A:[Data] QSJ:1A	00h 01h 02h 03h 04h 05h	0 1 2 3 4 5	---	○	---	---	---	---	---	---	---	---	---
B.Gamma Range	OSJ:1B:[Data] QSJ:1B	1h 2h 3h	1 2 3	---	○	---	---	---	---	---	---	---	---	---
YI_YI_G Saturation	OSJ:1C:[Data] QSJ:1C	41h – 80h – BFh	-63 – 0 – 63	---	○	---	---	---	---	---	---	---	---	---
YI_YI_G Phase	OSJ:1D:[Data] QSJ:1D	41h – 80h – BFh	-63 – 0 – 63	---	○	---	---	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
12G SDI/OPTICAL OUT Format	OSJ:1E:[Data] QSJ:1E	01h 02h 04h 05h 07h 08h 0Ah 10h 11h 14h 15h 16h 17h 18h 19h 1Ah 1Bh 21h 22h 23h	720/59.94p 720/50p 1080/59.94i 1080/50i 1080/29.97PsF 1080/25PsF 1080/23.98PsF 1080/59.94p 1080/50p 1080/29.97p 1080/25p 1080/23.98p (over 59.94i/p) 2160/29.97p 2160/25p 2160/59.94p 2160/50p 2160/23.98p 2160/24p 1080/24p 1080/23.98p	---	○	---	---	---	---	---	---	---	---	---
12G SDI/OPTICAL OUT 3G SDI Out	OSJ:20:[Data] QSJ:20	0h 1h	Level A Level B	---	○	---	---	---	---	---	---	---	---	---
3G SDI Out Format	OSJ:21:[Data] QSJ:21	01h 02h 04h 05h 07h 08h 0Ah 10h 11h 14h 15h 16h 22h 23h	720/59.94p 720/50p 1080/59.94i 1080/50i 1080/29.97PsF 1080/25PsF 1080/23.98PsF 1080/59.94p 1080/50p 1080/29.97p 1080/25p 1080/23.98p (over 59.94i/p) 1080/24p 1080/23.98p	---	○	---	---	---	---	---	---	---	---	---
3G SDI Out HDR Output Select	OSJ:22:[Data] QSJ:22	0h 1h 2h	SDR HDR(2020) HDR(709)	---	○	---	---	---	---	---	---	---	---	---
MONI Out Format	OSJ:23:[Data] QSJ:23	01h 02h 04h 05h 07h 08h 0Ah 14h 15h 16h 22h 23h	720/59.94p 720/50p 1080/59.94i 1080/50i 1080/29.97PsF 1080/25PsF 1080/23.98PsF 1080/29.97p 1080/25p 1080/23.98p (over 59.94i/p) 1080/24p 1080/23.98p	---	○	---	---	---	---	---	---	---	---	---
MONI Out HDR Output Select	OSJ:24:[Data] QSJ:24	0h 1h 2h	SDR HDR(2020) HDR(709)	---	○	---	---	---	---	---	---	---	---	---
HDMI Out Format	OSJ:25:[Data] QSJ:25	01h 02h 04h 05h 10h 11h 14h 15h 16h 17h 18h 19h 1Ah 1Bh 21h 22h 23h	720/59.94p 720/50p 1080/59.94i 1080/50i 1080/59.94p 1080/50p 1080/29.97p 1080/25p 1080/23.98p(over 59.94i/p) 2160/29.97p 2160/25p 2160/59.94p 2160/50p 2160/23.98p 2160/24p 1080/24p 1080/23.98p	---	○	---	---	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
HDMI Out HDR Output Select	OSJ:26:[Data] QSJ:26	0h 1h 2h	SDR HDR(2020) HDR(709)	---	○	---	---	---	---	---	---	---	---	---
Color Bar Tone	OSJ:27:[Data] QSJ:27	0h 1h 2h	Off Low Normal	---	○	---	---	---	---	---	---	---	---	---
TOUTCH AF	OSJ:28:[Data1]:[Data2]	[Data1] 00h - 64h [Data2] 00h - 64h	[Data1]H Pos. 0% - 100% [Data2]V Pos. 0% - 100%	---	○	---	---	---	---	---	---	---	---	---
Preset Speed Unit	OSJ:29:[Data] QSJ:29	0h 1h	Speed Table Time	---	○	---	---	---	---	---	---	---	---	---
Preset Crop	OSJ:2A:[Data] QSJ:2A	0h 1h	Off On	---	○	---	---	---	---	---	---	---	---	---
Preset Thumbnail Update	OSJ:2B:[Data] QSJ:2B	0h 1h	Off On	---	○	---	---	---	---	---	---	---	---	---
Preset Name	OSJ:2C:[Data] QSJ:2C	0h 1h	Reset Hold	---	○	---	---	---	---	---	---	---	---	---
PT. Speed Mode	OSJ:2D:[Data] QSJ:2D	0h 1h	Normal Fast	---	○	---	---	---	---	---	---	---	---	---
UHD Crop	OSJ:2E:[Data] QSJ:2E	0h 1h 2h	Off Crop(1080) Crop(720)	---	○	---	---	---	---	---	---	---	---	---
Crop H POS. (YL)	OSJ:2F:[Data] QSJ:2F	000h - 780h - A00h	0 - 1920 - 2560	---	(1step=2pix)	---	---	---	---	---	---	---	---	---
Crop V POS. (YL)	OSJ:30:[Data] QSJ:30	000h - 438h - 5A0h	0 - 1080 - 1440	---	○	---	---	---	---	---	---	---	---	---
Crop H POS. (G)	OSJ:31:[Data] QSJ:31	000h - 780h - A00h	0 - 1920 - 2560	---	(1step=2pix)	---	---	---	---	---	---	---	---	---
Crop V POS. (G)	OSJ:32:[Data] QSJ:32	000h - 438h - 5A0h	0 - 1080 - 1440	---	○	---	---	---	---	---	---	---	---	---
Crop H POS. (MG)	OSJ:33:[Data] QSJ:33	000h - 780h - A00h	0 - 1920 - 2560	---	(1step=2pix)	---	---	---	---	---	---	---	---	---
Crop V POS. (MG)	OSJ:34:[Data] QSJ:34	000h - 438h - 5A0h	0 - 1080 - 1440	---	○	---	---	---	---	---	---	---	---	---
Save Preset Name (Single)	OSJ:35:[Data1]:[Data2] QSJ:35:[Data1]	[Data1] 00 - 99 [Data2] xxxxxxxxxxxxxx	[Data1] Preset001 - Preset100 [Data2] Preset Name (Fixed 15 Charactors)	---	[Data2] use only follow charactors A - Z (Alphabet) 1 - 9 (Decimal Number)	---	---	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Delete Preset Name (Single)	OSJ:36:[Data]	[Data] 00 – 99	[Data] Preset001 – Preset100	---	○	---	---	---	---	---	---	---	---	---
Delete Preset Name (All)	OSJ:37	–	---	---	○	---	---	---	---	---	---	---	---	---
Update Preset Thumbnail	OSJ:39:[Data]	[Data] 00 – 99	[Data] Preset001 – Preset100	---	○	---	---	---	---	---	---	---	---	---
Delete Preset Thumbnail (Single)	OSJ:3A:[Data]	[Data] 00 – 99	[Data] Preset001 – Preset100	---	○	---	---	---	---	---	---	---	---	---
Delete Preset Thumbnail (All)	OSJ:3B	–	---	---	○	---	---	---	---	---	---	---	---	---
Preset Name / Preset Thumbnail Counter	QSJ:3C:[Data1] OSJ:3C:[Data1]:[Data2]	[Data1] 00h 01h 02h 03h 04h 05h 06h 07h 08h 09h 0Ah 0Bh [Data2] 000000000h – FFFFFFFFFh	[Data1] Preset 001-009 Preset 010-018 Preset 019-027 Preset 028-036 Preset 037-045 Preset 046-054 Preset 055-063 Preset 064-072 Preset 073-081 Preset 082-090 Preset 091-099 Preset 100 [Data2] 000000000h – FFFFFFFFFh	---	○	---	---	---	---	---	---	---	---	---
Zoom Scale	QSJ:3D OSJ:3D:[Data]	000h – 3E7h	0 – 999	---	○	---	---	---	---	---	---	---	---	---
Operation Lock	OSJ:3E:[Data]	xxxxxxxx	Any Information (40 Charactors)	---	○	---	---	---	---	---	---	---	---	---
Release Operation Lock	OSJ:3F	–	---	---	○	---	---	---	---	---	---	---	---	---
Operation Lock Status	QSJ:40 OSJ:40:[Data1]:[Data2]	[Data1] 0 1 [Data2] xxxxxxxx	[Data1] Unlock Lock [Data2] Any Information (40 Charactors)	---	○	---	---	---	---	---	---	---	---	---
External Output Menu Setting 1	OSJ:41:[Data] QSJ:41	0 1 2	Off R-Tally G-Tally	---	○	---	---	---	---	---	---	---	---	---
External Output Menu Setting 2	OSJ:42:[Data] QSJ:42	0 1 2	Off R-Tally G-Tally	---	○	---	---	---	---	---	---	---	---	---
Power On Position	OSJ:45:[Data] QSJ:45	0 1 2 3	None Standby Home Preset	---	○	---	---	---	---	---	---	---	---	---
Power On Preset Number	OSJ:46:[Data] QSJ:46	00 – 99	Preset001 – Preset100	---	○	---	---	---	---	---	---	---	---	---
12G SDI/Fiber Out HDR Output Select	OSJ:1F:[Data] QSJ:1F	0h 1h 2h	SDR HDR(2020) HDR(709)	---	○	---	---	---	---	---	---	---	---	---
AWB COLOR TEMPERATURE INC	OSJ:48:[Data]	1h – Ah	1 – 10	---	○	---	---	---	---	---	---	---	---	---
AWB COLOR TEMPERATURE DEC	OSJ:49:[Data]	1h – Ah	1 – 10	---	○	---	---	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
AWB COLOR TEMPERATURE	OSJ:4A:[Data1]:[Data2] QSJ:4A	[Data1] 007D0h – 03A98h [Data2] 0h 1h 2h	[Data1] 2000K – 15000K [Data2] Valid Under Over	---	○	---	---	---	---	---	---	---	---	---
AWB R Gain	OSJ:4B:[Data] QSJ:4B	670h – 800h – 990h	-400 – 0 – 400	---	○	---	---	---	---	---	---	---	---	---
AWB B Gain	OSJ:4C:[Data] QSJ:4C	670h – 800h – 990h	-400 – 0 – 400	---	○	---	---	---	---	---	---	---	---	---
AWB G Axis	OSJ:4D:[Data] QSJ:4D	670h – 800h – 990h	-400 – 0 – 400	---	○	---	---	---	---	---	---	---	---	---
Digital Extender	OSJ:4E:[Data] QSJ:4E	0 1 2	OFF x1.4 x2.0	---	○	---	---	---	---	---	---	---	---	---
Adaptive Matrix	OSJ:4F:[Data] QSJ:4F	0 1	OFF ON	---	○	---	---	---	---	---	---	---	---	---
Tracking Data Output Serial Out	OSJ:54 QSJ:54	0 1	OFF ON	---	○	---	---	---	---	---	---	---	---	---
Tracking Data Output IP Out	OSJ:55 QSJ:55	0 1	OFF ON	---	○	---	---	---	---	---	---	---	---	---
Color Setting	OSJ:56 QSJ:56	0 1	Normal V-Log	---	○	---	---	---	---	---	---	---	---	---
12G SDI/Fiber Out V-Log Output Select	OSJ:57 QSJ:57	0 1	V-Log V-709	---	○	---	---	---	---	---	---	---	---	---
3G SDI Out V-Log Output Select	OSJ:58 QSJ:58	0 1	V-Log V-709	---	○	---	---	---	---	---	---	---	---	---
MONI Out V-Log Output Select	OSJ:59 QSJ:59	0 1	V-Log V-709	---	○	---	---	---	---	---	---	---	---	---
HDMI Out V-Log Output Select	OSJ:5A QSJ:5A	0 1	V-Log V-709	---	○	---	---	---	---	---	---	---	---	---
Preset Iris	OSJ:5B QSJ:5B	0 1	OFF ON	---	○	---	---	---	---	---	---	---	---	---
Camera Title	OSJ:5C QSJ:5C	xxxxxxxx	Camera Title (Fixed 40 Charactors : ASCII CODE)	---	○	---	---	---	---	---	---	---	---	---
CROP H/V POSITION Speed Control (YL)	OSJ:5D	[Data1] 01 – 50 – 99 [Data2] 01 – 50 – 99	[Data1] Left Max. Speed – Stop – Right Max. Speed [Data2] Down Max. Speed – Stop – UP Max. Speed	---	○	---	---	---	---	---	---	---	---	---

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE4	UE150	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
CROP H/V POSITION Speed Control (G)	OSJ:5E	[Data1] 01 - 50 - 99 [Data2] 01 - 50 - 99	[Data1] Left Max. Speed - Stop - Right Max. Speed [Data2] Down Max. Speed - Stop - UP Max. Speed	---	○	---	---	---	---	---	---	---	---	---
CROP H/V POSITION Speed Control (MG)	OSJ:5F	[Data1] 01 - 50 - 99 [Data2] 01 - 50 - 99	[Data1] Left Max. Speed - Stop - Right Max. Speed [Data2] Down Max. Speed - Stop - UP Max. Speed	---	○	---	---	---	---	---	---	---	---	---
Get CROP H/V POSITION (YL, G, MG)	QSJ:60 OSJ:60	[Data1] 000h - 780h - A00h [Data2] 000h - 438h - 5A0h [Data3] 000h - 780h - A00h [Data4] 000h - 438h - 5A0h [Data5] 000h - 780h - A00h [Data6] 000h - 438h - 5A0h	[Data1] H POS (YL) 0 - 1920 - 2560 [Data2] V POS (YL) 0 - 1080 - 1440 [Data3] H POS (G) 0 - 1920 - 2560 [Data4] V POS (G) 0 - 1080 - 1440 [Data5] H POS (MG) 0 - 1920 - 2560 [Data6] V POS (MG) 0 - 1080 - 1440	---	○	---	---	---	---	---	---	---	---	---
Slow Shutter	OSJ:80 QSJ:80	0 1	Off On	○	---	---	---	---	---	---	---	---	---	---
Mirror	OSJ:81 QSJ:81	0 1	Off On	○	---	---	---	---	---	---	---	---	---	---
Language	OSJ:82 QSJ:82	0 1 2	English Japanese Chinese	○	---	---	---	---	---	---	---	---	---	---
LDC	OSJ:84 QSJ:84	0 1	Off On	○	---	---	---	---	---	---	---	---	---	---

ITEM	Command Control Confirmation Response	Data	Data Contents	UE4	UE150	HR140	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Power	#O[Data] p[Data] (Control command)	0 1	Power OFF Power ON	○	○	○	○	○	○	○	○	○	○
	#O p[Data] (Confirmation command)	0 1 3	Power OFF Power ON Starting	○	○	○	○	○	○	○	○	○	○
Pan Speed Control	#P[Data] pS[Data]	01 – 50 – 99	Left Max. Speed – Stop – Right Max. Speed	○	○	○	○	○	○	○	○	○	○
Tilt Speed Control	#T[Data] tS[Data]	01 – 50 – 99	Down Max. Speed – Stop – UP Max. Speed	○	○	○	○	○	○	○	○	○	○
Zoom Speed Control	#Z[Data] zS[Data]	01 – 49 50 51 – 99	Wide Max. Speed – Wide Min. Speed Stop Tele Min. Speed – Tele Max. Speed	○	○	○	○	○	○	○	○	○	○
Zoom Position Control	#AXZ[Data] #AXZ axz[Data]	555h – FFFh	Wide – Tele	supports only 555	○	○	○	○	○	○	○	○	○
Focus Speed Control	#F[Data] fS[Data]	01 – 49 50 51 – 99	Near Max. Speed – Near Min. Speed Stop Far Min. Speed – Far Max. Speed	---	○	○	○	○	○	○	○	○	○
Focus Position Control	#AXF[Data] #AXF axf[Data]	555h – FFFh	Near – Far	supports only 555	○	○	○	○	○	○	○	○	○
Iris Control	#I[Data] #I iC[Data]	01 – 99	Iris Close – Iris Open	---	○	○	○	○	○	○	○	○	○
Iris Control	#AXI[Data] axi[Data]	555h – FFFh	Iris Close – Iris Open	supports only 555	○	○	○	○	○	○	○	○	○
Extender/AF Control	#D1[Data] #D1 d1[Data]	0 1	OFF ON	---	○	○	○	○	○	○	○	○	○
Iris Auto/Manual	#D3[Data] #D3 d3[Data]	0 1	Manual Iris Auto Iris	---	○	○	○	○	○	○	○	○	○
OPTION SW Control	#D6[Data] #D6 d6[Data]	0 1	Day Night	---	○	○	○	○	○	○	---	○	○
Defroster Control	#D7[Data] d7[Data]	0 1	OFF ON	---	---	0 : Auto 1 : On	---	---	---	---	---	---	---
Wiper Control	#D8[Data] d8[Data]	0 1	OFF ON	---	---	0 : Off 1 : Fast	---	---	---	---	---	---	---
Heater/Fan Control	#D9[Data] d9[Data]	0 1	OFF ON	---	---	(Heater) 0 : Auto 1 : On	---	---	---	---	---	---	---
Tally Control	#DA[Data] #DA dA[Data]	0 1	OFF ON	○	○	○	○	○	○	○	○	○	○

ITEM	Command Control Confirmation Response	Data	Data Contents	UE4	UE150	HR140	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Request Latest Recall Preset No.	#S s[Data]	00 – 99	Preset 1 – Preset 100	○	○	○	○	○	○	○	○	○	○
Save Preset Memory	#M[Data] s[Data]	00 – 99	Preset001 – Preset100	○	○	○	○	○	○	○	○	○	○
Recall Preset Memory	#R[Data] s[Data]	00 – 99	Preset001 – Preset100	○	○	○	○	○	○	○	○	○	○
Preset completion notification	q[Data]	00 – 99	Preset001 – Preset100	○	○	○	○	○	○	○	○	○	○
Limitation Setting	#L[Data] l[Data]	Controller –> P/T 1 2 3 4 P/T –> Controller 0	 Tilt Up Tilt Down Pan Left Pan Right Release Set	---	○	○	○	○	○	○	○	○	○
Request Zoom Position (Output D/A Data)	#GZ gz[Data]	555h – FFFh "---"	Wide – Tele @Power OFF	---	○	○	○	○	○	○	○	○	○
Request Focus Position (Output D/A Data)	#GF gf[Data]	555h – FFFh "---"	Near – Far @Power OFF	---	○	○	○	○	○	○	○	○	○
Request Iris Position (Output D/A Data)	#GI gi[Data1][Data2]	[Data1] 555h – FFFh "---" [Data2] 0 1	[Data1] Close – Open @Power OFF [Data2] Manual Iris Auto Iris	---	○	○	○	○	○	○	○	○	○
TALLY Enable	#TAE[Data] #TAE tAE[Data]	0 1	Disable Enable	○	○	---	○	○	○	○	○	○	○
Install Positon	#INS[Data] #INS iNS[Data]	0 1	Desktop Hanging	○	○	○	○	○	○	○	○	○	○
Speed With Zoom POS	#SWZ[Data] #SWZ sWZ[Data]	0 1	OFF ON	---	○	○	○	○	○	○	○	○	○
Pan/Tilt Absolute Position Control	#APC[Data1][Data2] #APC aPC[Data1][Data2]	[Data1] 0000h – 8000h – FFFFh [Data2] 0000h – 8000h – FFFFh	[Data1]Pan Position CCW Limit – Center – CW Limit [Data2]Tilt Position UP Limit – Center – DOWN Limit	supports only Pan 8000(Center) Tilt 8000(Center)	supports only Pan 2D09(CCW Limit) –D2F5(CW Limit) Tilt 1C71(UP Limit) –8E38(DOWN Limit)	supports only Pan 2D09(CCW Limit) –D2F5(CW Limit) Tilt 1C71(UP Limit) –8E38(DOWN Limit)	supports only Pan 2D09(CCW Limit) –D2F5(CW Limit) Tilt 5555(UP Limit) –8E38(DOWN Limit)	supports only Pan 2D09(CCW Limit) –D2F5(CW Limit) Tilt 5555(UP Limit) –8E38(DOWN Limit)	supports only Pan 2D09(CCW Limit) –D2F5(CW Limit) Tilt 5555(UP Limit) –8E38(DOWN Limit)	supports only Pan 2D09(CCW Limit) –D2F5(CW Limit) Tilt 1C71(UP Limit) –8E38(DOWN Limit)	supports only Pan 2D09(CCW Limit) –D2F5(CW Limit) Tilt 5555(UP Limit) –8E38(DOWN Limit)	supports only Pan 2D09(CCW Limit) –D2F5(CW Limit) Tilt 5555(UP Limit) –8E38(DOWN Limit)

ITEM	Command Control Confirmation Response	Data	Data Contents	UE4	UE150	HR140	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Limitation Control	#LC[Data1][Data2] #LC[Data1] lC[Data1][Data2]	[Data1] 1 2 3 4 [Data2] 0 1	[Data1] Tilt Up Tilt Down Pan Left Pan Right [Data2] Release Set	---	○	○	○	○	○	○	○	○	○
Pan Tilt Speed Control	#PTS[Data1][Data2] pTS[Data1][Data2]	[Data1] 01 – 50 – 99 [Data2] 01 – 50 – 99	[Data1] Left Max. Speed – Stop – Right Max. Speed [Data2] Down Max. Speed – Stop – UP Max. Speed	○	○	○	○	○	○	○	○	○	○
Wireless Control	#WLC[Data1] #WLC wLC[Data1]	0 1	Disable Enable	○	○	---	○	○	○	○	○	○	○
SOFTWARE VERSION	#QSV[Data1] qSV[Data1]V[Data2].[Data3] [Data4][Data5][data6]	※	※	---	※	※	※	※	※	※	※	※	※
Error Status Info.	#RER rER[Data]	※	※	---	※	※	※	※	※	※	※	※	※
Lens Position Information	#LPI lPI[Data1][Data2][Data3]	[Data1] 555h – FFFh [Data2] 555h – FFFh [Data3] 555h – FFFh	[Data1]Zoom Position Wide – Tele [Data2]Focus Position Near – Far [Data3]Iris Position Close – Open	---	○	○	○	○	○	○	○	○	○
Lens Position Information Control	#LPC[Data] #LPC lPC[Data]	0 1	Off On	○	○	○	○	○	○	○	○	○	○
Smart Picture Flip	#SPF[Data] #SPF sPF[Data]	0 1	Off Auto	---	○	○	---	---	---	○	○	---	---
Flip Detect Angle	#FDA[Data] #FDA fDA[Data]	3Ch – 78h	60deg – 120deg	---	○	○	---	---	---	○	○	---	---
IR Remote Controller ID	#RID[Data] #RID rID[Data]	0 1 2 3	01 02 03 04	○	---	---	○	○	○	---	---	---	---
Resolution Control	#RZL[Data] #RZL rZL[Data]	0 1 2 3	640x360 320x180 1280x720 1920x1080	---	○	---	supports only 0(640x360) 1(320x180)	supports only 0(640x360) 1(320x180)	supports only 0(640x360) 1(320x180)	---	---	---	---
P/T Relative Position Control	#RPC[Data1][Data2] rPC[Data1][Data2]	[Data1] 0000h – 8000h – FFFFh	[Data1]Pan Position CCW Limit – Center – CW Limit	---	○	○	○	○	○	○	---	---	---
Image Freeze During Preset	#PRF[Data] #PRF pRF[Data]	0 1	OFF ON	---	○	○	○	○	○	○	---	---	---

ITEM	Command Control Confirmation Response	Data	Data Contents	UE4	UE150	HR140	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Preset Speed Table	#PST[Data] #PST pST[Data]	0 1 2	SLOW MID FAST	---	supports only 0(SLOW) 2(FAST)	supports only 0(SLOW) 2(FAST)	○	○	○	supports only 0(SLOW) 2(FAST)	---	---	---
P/T Absolute Position Control w/Speed	#APS[Data1][Data2][Data3][Data4] aPS[Data1][Data2][Data3][Data4]	[Data1] 0000h – 8000h – FFFFh [Data2] 0000h – 8000h – FFFFh [Data3] 00h – 1Dh [Data4] 0 1 2	[Data1]Pan Position CCW Limit – Center – CW Limit [Data2]Tilt Position UP Limit – Center – DOWN Limit [Data3]Preset Speed 1 – 30 [Data4]Preset Speed Table SLOW MID FAST	---	○	○	○	○	○	○	---	---	---
P/T Relative Position Control w/Speed	#RPS[Data1][Data2][Data3][Data4] rPS[Data1][Data2][Data3][Data4]	[Data1] 0000h – 8000h – FFFFh [Data2] 0000h – 8000h – FFFFh [Data3] 00h – 1Dh [Data4] 0 1 2	[Data1]Pan Position CCW Limit – Center – CW Limit [Data2]Tilt Position UP Limit – Center – DOWN Limit [Data3]Preset Speed 1 – 30 [Data4]Preset Speed Table SLOW MID FAST	---	○	○	○	○	○	○	---	---	---
Status Display Lamp	#LMP[Data] #LMP lMP[Data]	0 1	Disable Enable	---	○	---	---	---	---	○	---	---	---
FAN	#FAN[Data] #FAN fAN[Data]	0 1 2 3	Auto High Mid Low	---	○	Supports only 0(Auto) 1(On)	---	---	---	---	---	---	---
FAN2	#FA2[Data] #FA2 fA2[Data]	0 1 2 3	Auto High Mid Low	---	○	---	---	---	---	---	---	---	---
Wiper	#WIP[Data] #WIP wIP[Data]	0 1 2	Off Fast Slow	---	---	○	---	---	---	---	---	---	---
Washer	#WAS[Data] #WAS wAS[Data]	0 1	Off On	---	---	○	---	---	---	---	---	---	---

ITEM	Command Control Confirmation Response	Data	Data Contents	UE4	UE150	HR140	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Fan Status1	#FS1 fS1[Data]	0 1 2	Off On Error	---	○	Supports only 0(Off), 1(On)	---	---	---	---	---	---	---
Fan Status2	#FS2 fS2[Data]	0 1 2	Off On Error	---	○	Supports only 0(Off), 1(On)	---	---	---	---	---	---	---
Heater Status	#HS hS[Data]	0 1	Off On	---	---	○	---	---	---	---	---	---	---
Defroster Status	#DS dS[Data]	0 1	Off On	---	---	○	---	---	---	---	---	---	---
Washer PT Position	#WPT wPT	---	---	---	---	○	---	---	---	---	---	---	---
Washer PT Position Reset	#WPR wPR	---	---	---	---	○	---	---	---	---	---	---	---
Get Gain/ColorTemp/ Shutter/ND	#PTG pTG[Data1][Data2][Data3][Data4][Data5][Data6]	[Data1] 08h – 11h – 1Ah – 32h 80h [Data2] 00000h – 3A98h [Data3] 0h 1h 2h 3h [Data4] 0001h – 2710 h [Data5] 00000h – 186A0h [Data6] 0 1 2 3	[Data1] (Gain) 0dB – 9dB – 18dB – 42dB AGC ON [Data2] 0K – 15000K [Data3] (Shutter Mode) Off Step Syncro ELC [Data4] (Shutter Step) 1/1 – 1/10000 [Data5] (Shutter Synchro) 0.0 [Hz] – 10000.0[Hz] [Data6] (ND) Throgh 1/4 ND 1/16 ND 1/64 ND	---	○	---	---	---	---	---	---	---	---
Get Pan/Tilt/Zoom/Focus/Iris	#PTV pTV[Data1][Data2][Data3][Data4][Data5]	[Data1] 0000h – 8000h – FFFFh [Data2] 0000h – 8000h – FFFFh [Data3] 555h – FFFh [Data4] 555h – FFFh [Data5] 555h – FFFh	[Data1] (Pan) ccwLimit – Center – cwLimit [Data2] (Tilt) UpLimit – Center – DownLimit [Data3] (Zoom) Wide – Tele [Data4] (Focus) Near – Far [Data5] (Iris) Close – Open	---	○	---	---	---	---	---	---	---	---

ITEM	Command Control Confirmation Response	Data	Data Contents	UE4	UE150	HR140	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Get Pan/Tilt/Zoom/Focus/Iris	#PTD pTD[Data1][Data2][Data3][Data4][Data5]	[Data1] 0000h – FFFFh [Data2] 0000h – FFFFh [Data3] 000h – 3E7h [Data4] 00h – 63h [Data5] 00h – FEh FFh	[Data1] (Pan) 0000h – FFFFh [Data2] (Tilt) 0000h – FFFFh [Data3] (Zoom) 0 – 999 [Data4] (Focus) 0 – 99 [Data5] (Iris) F0.0 – F25.4 CLOSE	---	○	---	---	---	---	---	---	---	---
Tally Infomation	#TAA tAA[Data1][Data2][Data3][Data4][Data5][Data6][Data7][Data8][Data9]	[Data1] 0 1 [Data2] 0 1 [Data3] 0 1 [Data4] 0 1 [Data5] 0 1 [Data6] 0 1 [Data7] 0 1 [Data8] 0 1 [Data9] 0 1	[Data1] Red Tally Off Red Tally On [Data2] Wired Red Tally In Off Wired Red Tally In On [Data3] Command Red Tally In Off Command Red Tally In On [Data4] Green Tally Off Tally Green On [Data5] Wired Green Tally In Off Wired Green Tally In On [Data6] Command Green Tally In Off Command Green Tally In On [Data7] (Reserved) Tally Off (Reserved) Tally On [Data8] Wired (Reserved) Tally In Off Wired (Reserved) Tally In On [Data9] Command (Reserved) Tally In Off Command (Reserved) Tally In On	---	[Data4],[Data5],[Data6],[Data8]:unused	---	---	---	---	---	---	---	---

ITEM	Command Control Confirmation Response	Data	Data Contents	UE4	UE150	HR140	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Preset Speed Control	#UPVS[Data] #UPVS uPVS[Data]	[Preset Speed Unit : 0 (SpeedTable)] 275h 300h 325h 350h 375h 400h 425h 450h 475h 500h 525h 550h 575h 600h 625h 650h 675h 700h 725h 750h 775h 800h 825h 850h 875h 900h 925h 950h 975h 999h [Preset Speed Unit : 1 (Time)] 001h – 063h	[Preset Speed Unit : 0 (SpeedTable)] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 [Preset Speed Unit : 1 (Time)] 01 – 99	---	○	○	○	○	○	○	○	○	○
Delete Preset Memory	#C[Data] s[Data]	00 – 99	Preset001 – Preset100	○	○	○	○	○	○	○	○	○	○

ITEM	Command Control Confirmation Response	Data	Data Contents	UE4	UE150	HR140	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Preset Entry Confirmation	#PE[Data1] pE[Data1]	[Data1] 00h 01h 02h [Data2] 0000000000h – FFFFFFFFFFh (bit0) 0 1 (bit1) 0 1 – (39bit) 0 1	[Data1] Preset 001～040 Preset 041～080 Preset 081～100 [Data2] PRESET No.(Data1*40 + 1) No Entry Entry PRESET No.(Data1*40 + 2) No Entry Entry – PRESET No.(Data1*40 + 40) No Entry Entry	○	○	○	○	○	○	○	○	○	○

※詳細

▼OSH

機種とSystem Formatによってパラメータが異なる場合があります

HR140, HE130		UE70series, HE75series, HE70series, HE60, HE50	HE120	UE150, UB300
(59.94p/59.94i) 0(OFF) 3(1/100) 4(1/120) 5(1/250) – C(ELC) (29.97p) 0(OFF) 2(1/60) 4(1/120) 5(1/250) – C(ELC)	F(1/30) (23.98p) 0(OFF) 2(1/60) 4(1/120) 5(1/250) – D(1/24) (50p/50i) 0(OFF) 2(1/60) 3(1/120) 5(1/250) – C(ELC) (25p) 0(OFF) 2(1/60) 3(1/120) 5(1/250) – C(ELC) E(1/25)	0(OFF), 3(1/100 NTSC) (1/120 PAL), 5(1/250) – B(Synchro-Scan)	0(OFF), 3(1/100 NTSC) (1/120 PAL), 5(1/250) – C(ELC)	---

▼OSA:87

機種ごとに異なる

UE4	UE150	HR140	UB300	UE70series	HE75series
[59.94Hz] 1h(720/59.94p) 10h(1080/59.94p) 14h(1080/29.97p) 17h(2160/29.97p) [50Hz] 2h(720/50p) 11h(1808/50p) 15h(1080/25p) 18h(2160/25p) [60Hz] 0h(720/60p) 20h(1080/60p) 24h(2160/30p) 25h(1080/30p)	[59.94Hz] 01h(720/59.94p) 04h(1080/59.94i) 07h(1080/29.97psF) 10h(1080/59.94p) 14h(1080/29.97p) 16h(1080/23.98p (over 59.94i/p)) 17h(2160/29.97p) 19h(2160/59.94p) [50Hz] 02h(720/50p) 05h(1080/50i) 08h(1080/25psF) 11h(1080/50p) 15h(1080/25p) 18h(2160/25p) 1Ah(2160/50p) [24Hz] 21h(2160/24p) 22h(1080/24p) [23.98Hz] 0Ah(1080/23.98psF) 1Bh(2160/23.98p) 23h(1080/23.98p)	[59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) 7h(1080/29.97psF) Ah(1080/23.98psF) 10h(1080/59.95p) 14h(1080/29.97p) 16h(1080/23.98p) [50Hz] 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 11h(1080/50p) 15h(1080/25p)	[59.94Hz] 00h(720/60p) 01h(720/59.94p) 04h(1080/59.94i) 07h(1080/29.97psF) 0Ah(1080/23.98psF) 10h(1080/59.94p) 16h(1080/23.98p) 17h(2160/29.97p) 19h(2160/59.94p) 1Bh(2160/23.98p) 1Ch(2160/29.97psF) 1Eh(2160/23.98psF) 1Fh(2160/60p) 20h(1080/60p) 44h(1080/59.94i CROP) 50h(1080/59.94p CROP) [50Hz] 02h(720/50p) 05h(1080/50i) 08h(1080/25psF) 11h(1080/50p) 18h(2160/25p) 1Ah(2160/50p) 1Dh(2160/25psF) 45h(1080/50i CROP) 51h(1080/50p CROP)	[59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) 7h(1080/29.97psF) 10h(1080/59.94p) 14h(1080/29.97p) 17h(2160/29.97p) 80h(Auto) [50Hz] 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 11h(1080/50p) 15h(1080/25p) 18h(2160/25p) 80h(Auto)	[59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) 7h(1080/29.97psF) 10h(1080/59.94p) 14h(1080/29.97p) 80h(Auto) [50Hz] 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 11h(1080/50p) 15h(1080/25p) 80h(Auto)

▼OSA:87(続き)

機種ごとに異なる

HE70Series	HE130	HE120	HE60	HE50
=== HDMI Model === [59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) 7h(1080/29.97psF) 10h(1080/59.95p) 14h(1080/29.97p) 80h(Auto) [50Hz] 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 11h(1080/50p) 15h(1080/25p) 80h(Auto) === SDI Model === [59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) 7h(1080/29.97psF) 14h(1080/29.97p) [50Hz] 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 15h(1080/25p)	[59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) 7h(1080/29.97psF) Ah(1080/23.98psF) 10h(1080/59.95p) 12h(480/59.94p) 14h(1080/29.97p) 16h(1080/23.98p) [50Hz] 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 11h(1080/50p) 13h(576/50p) 15h(1080/25p)	[59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) Bh(480/59.94i) 10h(1080/59.94p) 12h(480/59.94p) [50Hz] 2h(720/50p) 5h(1080/50i) Dh(576/50i) 11h(1808/50p) 13h(576/50p)	[H Model/59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) Bh(480/59.94i) 10h(1080/59.94p) 12h(480/59.94p) [H Model/50Hz] 2h(720/50p) 5h(1080/50i) Dh(576/50i) 11h(1808/50p) 8h(1080/25psf) 13h(576/50p) [S Model/59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) Bh(480/59.94i) [S Model/50Hz] 2h(720/50p) 5h(1080/50i) Dh(576/50i)	[N Model] 1h(720/59.94p) 4h(1080/59.94i) Bh(480/59.94i) [E,MC Model] 2h(720/50p) 5h(1080/50i) Dh(576/50i) [H Model/59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) Bh(480/59.94i) 10h(1080/59.94p) 7h(1080/29.97psF) [H Model/50Hz] 2h(720/50p) 5h(1080/50i) Dh(576/50i) 11h(1808/50p) 8h(1080/25psf) [S Model/59.94Hz] 1h(720/59.94p) 4h(1080/59.94i) Bh(480/59.94i) 7h(1080/29.97psF) [S Model/50Hz] 2h(720/50p) 5h(1080/50i) Dh(576/50i) 8h(1080/25psf)

▼OSD:B1

機種によってパラメータが異なる場合があります

HR140, HE130		UE70series, HE75series, HE70series	
[Data]	Data Contents	[Data]	Data Contents
000h – 078h	2000K,2010K,2020K,2040K,2050K,2070K,2080K,2090K,2110K,2120K,2140K,2150K,2170K, 2180K,2200K,2210K,2230K,2240K,2260K,2280K,2300K,2310K,2330K,2340K,2360K,2380K, 2400K,2420K,2440K,2460K,2480K,2500K,2520K,2540K,2560K,2600K,2620K,2640K,2680K, 2700K,2720K,2740K,2780K,2800K,2820K,2850K,2870K,2920K,2950K,2970K,3000K,3020K, 3070K,3100K,3120K,3150K,3200K,3250K,3270K,3330K,3360K,3420K,3450K,3510K,3570K, 3600K,3660K,3720K,3780K,3840K,3870K,3930K,3990K,4050K,4110K,4170K,4240K,4320K, 4360K,4440K,4520K,4600K,4680K,4760K,4840K,4920K,5000K,5100K,5200K,5300K,5400K, 5500K,5600K,5750K,5850K,6000K,6150K,6300K,6450K,6650K,6800K,7000K,7150K,7400K, 7600K,7800K,8100K,8300K,8600K,8900K,9200K,9600K,10000K,10500K,11000K,11500K, 12000K,12500K,13000K,14000K,15000K	000h 001h – 04A 04B	2400K 2500K – 9800K 9900K (100K step)

▼OSG:5D

System Frequencyによってパラメータが異なります

UB300			
59.94p/59.94i	50p/50i	29.97p/23.98p	25p
04h(1/100) 05h(1/120) 06h(1/125) 07h(1/250) 08h(1/500) 09h(1/1000) 0Ah(1/1500) 0Bh(1/2000) 0Ch(1/180.0deg) 0Dh(1/172.8deg) 0Eh(1/144.0deg) 0Fh(1/120.0deg) 10h(1/90.0deg) 11h(1/45.0deg)	02h(1/60) 04h(1/100) 06h(1/125) 07h(1/250) 08h(1/500) 09h(1/1000) 0Ah(1/1500) 0Bh(1/2000) 0Ch(1/180.0deg) 0Dh(1/172.8deg) 0Eh(1/144.0deg) 0Fh(1/120.0deg) 10h(1/90.0deg) 11h(1/45.0deg)	00h(1/48) 01h(1/50) 02h(1/60) 03h(1/96) 04h(1/100) 05h(1/120) 06h(1/125) 07h(1/250) 08h(1/500) 09h(1/1000) 0Ah(1/1500) 0Bh(1/2000) 0Ch(1/180.0deg) 0Dh(1/172.8deg) 0Eh(1/144.0deg) 0Fh(1/120.0deg) 10h(1/90.0deg) 11h(1/45.0deg)	00h(1/48) 01h(1/50) 02h(1/60) 03h(1/96) 04h(1/100) 06h(1/125) 07h(1/250) 08h(1/500) 09h(1/1000) 0Ah(1/1500) 0Bh(1/2000) 0Ch(1/180.0deg) 0Dh(1/172.8deg) 0Eh(1/144.0deg) 0Fh(1/120.0deg) 10h(1/90.0deg) 11h(1/45.0deg)

▼OAW

制御コマンドと問合せ応答でパラメータの意味が異なります

Control		Confirmation	
0	ATW	0	ATW
1	AWC A	1	---
2	AWC B	2	AWC A
3	ATW	3	AWC B
4	PRESET 3200K	4	PRESET 3200K
5	PRESET 5600K	5	PRESET 5600K
6	PRESET 4500K	6	PRESET 4500K
7	PRESET 6000K	7	PRESET 6000K
8	PRESET 2800K	8	PRESET 2800K
9	VAR	9	VAR

機種によってパラメータが異なる場合があります

		UE150/HR140/UE70series/HE75series/HE70series/HE130/HE120	HE60/HE50	UE4
Control	0	ATW	ATW	ATW
	1	AWC A	AWC A	AWC A
	2	AWC B	AWC B	AWC B
	3	ATW	ATW	ATW
	4	PRESET 3200K	---	PRESET 3200K
	5	PRESET 5600K	---	PRESET 5600K
	6	---	---	---
	7	---	---	---
	8	---	---	---
	9	VAR	---	---
Confirmation	0	ATW	ATW	ATW
	1	---	---	---
	2	AWC A	AWC A	AWC A
	3	AWC B	AWC B	AWC B
	4	PRESET 3200K	---	PRESET 3200K
	5	PRESET 5600K	---	PRESET 5600K
	6	---	---	---
	7	---	---	---
	8	---	---	---
	9	VAR	---	---

▼OSC

制御コマンドと問合せ応答でパラメータの意味が異なります

	Control		Confirmation
1	2(90deg)	1	---
2	3(180deg)	2	1(0deg)
3	4(270deg)	3	2(90deg)
4	1(0deg)	4	3(180deg)
5	---	5	4(270deg)

▼#QSV

機種によってパラメータが異なる場合があります

UE150	HR140	UE70series	HE70series	HE130	HE120	HE60	HE50
[Data1] Servo CPU Camera CPU COM FPGA Main/Network CPU AVIO FPGA Interface CPU Lens CPU Interface EEPROM reserved BE EEPROM [Data2] MAJOR VERSION [Data3] MINOR VERSION [Data4] (Debug Build) (Release Build) [Data5] (REVISION) [data6] NTSC PAL	[Data1] Servo CPU CameraMain CPU COM FPGA Network CPU AVIO FPGA Interface CPU Lens FPGA Interface EEPROM reserve reserve [Data2] MAJOR VERSION [Data3] MINOR VERSION [Data4] (Debug Build) (Release Build) [Data5] (REVISION) [data6] NTSC PAL	[Data1] Servo CPU Cam CPU FPGA BE CPU reserve Interface CPU reserve Interface EEPROM reserve reserve [Data2] 00 [Data3] VERSION [Data4] L [Data5] 00 [data6] NTSC PAL	[Data1] Servo CPU Cam CPU FPGA BE CPU reserve Interface CPU reserve Interface EEPROM reserve reserve [Data2] 00 [Data3] VERSION [Data4] L [Data5] 00 [data6] NTSC PAL	[Data1] Servo CPU CameraMain CPU COM FPGA Network CPU AVIO FPGA Interface CPU Lens FPGA Interface EEPROM reserve reserve [Data2] MAJOR VERSION [Data3] MINOR VERSION [Data4] (Debug Build) (Release Build) [Data5] (REVISION) [data6] NTSC PAL	[Data1] Servo CPU CameraMain CPU Frontend FPGA Network CPU Backend FPGA Interface CPU Lens FPGA Interface EEPROM Camera EEPROM Lens EEPROM [Data2] MAJOR VERSION [Data3] MINOR VERSION [Data4] (Debug Build) (Release Build) [Data5] (REVISION) [data6] NTSC PAL	[Data1] Pan Tilt CPU Camera CPU Camera FPGA Network CPU OUT FPGA reserve reserve reserve Camera EEPROM reserve [Data2] MAJOR VERSION [Data3] MINOR VERSION [Data4] (Debug Build) (Release Build) [Data5] (REVISION) [data6] NTSC PAL Other	[Data1] Pan Tilt CPU Camera CPU Camera FPGA Network CPU OUT FPGA reserve reserve reserve reserve reserve [Data2] MAJOR VERSION [Data3] MINOR VERSION [Data4] (Debug Build) (Release Build) [Data5] (REVISION) [data6] NTSC PAL Other

▼#RER

機種によってエラーの内容が異なります

UE150	HR140	UE70series, HE75 Series	HE70 Series
00h Normal	00h：Normal	00h Normal(No Error)	00h Normal(No Error)
03h Motor Driver Error	03h：Motor Driver Error	03h Motor Driver Error	03h Motor Driver Error
04h Pan Sensor Error	04h：Pan Sensor Error	04h Pan Sensor Error	04h Pan Sensor Error
05h Tilt Sensor Error	05h：Tilt Sensor Error	05h Tilt Sensor Error	05h Tilt Sensor Error
06h Controller RX Over run Error	06h：Controller RX Over run Error	06h IF/FPGA UART Over run Error	06h IF/FPGA UART Over run Error
07h Controller RX Framing Error	07h：Controller RX Framing Error	07h IF/FPGA UART Framing Error	07h IF/FPGA UART Framing Error
08h Network RX Over run Error	08h：Network RX Over run Error	08h IF/NET UART Over run Error	08h IF/NET UART Over run Error
09h Network RX Framing Error	09h：Network RX Framing Error	09h IF/NET UART Framing Error	09h IF/NET UART Framing Error
17h Controller RX Command Buffer Overflow	17h：Controller RX Command Buffer	17h IF/FPGA UART Buffer Overflow	17h IF/FPGA UART Buffer Overflow
19h Network RX Command Buffer Overflow	Overflow	19h IF/NET UART Buffer Overflow	19h IF/NET UART Buffer Overflow
21h System Error	19h：Network RX Command Buffer Overflow	21h System Error(IF/SERVO Error)	21h System Error(IF/SERVO Error)
22h Spec Limit Over	21h：System Error	22h PT Limit Over	22h PT Limit Over
23h FPGA Config Error	22h：Spec Limit Over	24h NET Life-monitoring Error	24h NET Life-monitoring Error
24h NET Life-monitoring Error	23h：FPGA Config Error	25h BE Life-monitoring Error	25h BE Life-monitoring Error
25h BE Life-monitoring Error	25h：CAMERA communication Error	26h IF/BE UART Buffer Overflow	26h IF/BE UART Buffer Overflow
26h IF/BE UART Buffer Overflow	26h：CAMERA RX Over run Error	27h IF/BE UART Framing Error	27h IF/BE UART Framing Error
27h IF/BE UART Framing Error	27h：CAMERA RX Framing Error	28h IF/BE UART Buffer Overflow	28h IF/BE UART Buffer Overflow
28h IF/BE UART Buffer Overflow	28h：CAMERA RX Command Buffer Overflow	29h CAM Life-monitoring Error	29h CAM Life-monitoring Error
29h CAM Life-monitoring Error	31h：Fan1 Error		
31h Fan1 error	32h：Fan2 Error		
32h Fan2 error	33h：High Temp		
33h High Temp	36h：Low Temp		
36h Low Temp	39h：Wiper Error		
40h Temp Sensor Error	40h：Temp Sensor Error		
41h Lens Initialize Error	41h Lens Initialize Error		
42h PT. Initialize Error	42h PT. Initialize Error		
50h：MR Level Error	50h：MR Level Error		
52h：MR Offset Error	51h：GYRO Initial Error		
53h：Origin Offset Error	52h：MR Offset Error		
54h:Angle MR Sensor Error	53h：Origin Offset Error		
55h:PT. Gear Error			
56h:Motor Disconnect Error			

▼#RER（続き）

機種によってエラーの内容が異なります

HE130	HE120	HE60	HE50
V1.00 00h：Normal 03h：Motor Driver Error 04h：Pan Sensor Error 05h：Tilt Sensor Error 06h：Controller RX Over run Error 07h：Controller RX Framing Error 08h：Network RX Over run Error 09h：Network RX Framing Error 17h：Controller RX Command Buffer Overflow 19h：Network RX Command Buffer Overflow 21h：System Error 22h：Spec Limit Over 23h：FPGA Config Error 25h：CAMERA　communication Error 26h：CAMERA RX Over run Error 27h：CAMERA RX Framing Error 28h：CAMERA RX Command Buffer Overflow	V1.00 00h：Normal 03h：Motor Driver Error 04h：Pan Sensor Error 05h：Tilt Sensor Error 06h：Controller RX Over run Error 07h：Controller RX Framing Error 08h：Network RX Over run Error 09h：Network RX Framing Error 17h：Controller RX Command Buffer Overflow 19h：Network RX Command Buffer Overflow 21h：System Error 22h：Spec Limit Over 23h：FPGA Config Error 24h：Network communication Error 25h：Lens Initialize Error	00h：Normal 03h：Motor Driver Error 04h：Pan Sensor Error 05h：Tilt Sensor Error 06h：Controller RX Over run Error 07h：Controller RX Framing Error 08h：Network RX Over run Error 09h：Network RX Framing Error 17h：Controller RX Command Buffer Overflow 19h：Network RX Command Buffer Overflow 21h：System Error 22h：Spec Limit Over 23h：FPGA Config Error 24h：Network communication Error 30h：Lvds_Adjustmet_NG 31h：Bar_Signal_Check_NG 32h：H_Sync_Check_NG 33h：HDMI_Check_NG	V1.00 00h：Normal 03h：Motor Driver Error 04h：Pan Sensor Error 05h：Tilt Sensor Error 06h：Controller RX Over run Error 07h：Controller RX Framing Error 08h：Network RX Over run Error 09h：Network RX Framing Error 17h：Controller RX Command Buffer Overflow 19h：Network RX Command Buffer Overflow 21h：System Error 22h：Spec Limit Over 23h：FPGA Config Error 24h：Network communication Error 30h：Lvds_Adjustmet_NG 31h：Bar_Signal_Check_NG

▼XSF

制御コマンドと問合せ応答でパラメータの意味が異なります

UB300

Control		Confirmation	
0	----	0	current
1	current	1	Scene1
2	Scene1	2	Scene2
3	Scene2	3	Scene3
4	Scene3	4	Scene4
5	Scene4	5	Scene5
6	Scene5	6	Scene6
7	Scene6	7	Scene7
8	Scene7	8	Scene8
9	Scene8	9	----

UE4

Control		Confirmation	
0	----	0	Full Auto
1	Full Auto	1	Shutter Priority
2	Shutter Priority	2	Manual
3	Manual	3	----

Others

Control		Confirmation	
0	----	0	Scene1(Manual1)
1	Scene1(Manual1)	1	Scene2(Manual2)
2	Scene2(Manual2)	2	Scene3(Manual3)
3	Scene3(Manual3)	3	Scene4(FullAuto)
4	Scene4(FullAuto)	4	Scene1(Manual1)

▼#O

制御と問い合わせでパラメータが異なります

Control		Confirmation	
0	Power OFF	0	Power OFF
1	Power ON	1	Power ON
3	---	3	Starting