HD/4K Integrated Camera Interface Specifications

Compatible model Table
Mar. 1, 2025

Panasonic Entertainment & Communication Co. Ltd.

Camera command

Camera co			Data Contents	I																	
ITEM	Command Control / Response /	Data	Control and	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
	Confirmation		Response to contol	UETOUA	UB3U/ UB1U	UE100	30	UEZU/ NEZU	URTOU	UETOO	UE4	UE130/ RE143	TK140	UDSUU	UE/OSETTES	nE/oseries	ne/oseries	ПЕТЗО	ПЕТИ	HEOU	пери
enu Up enu Down enu Right enu Left	CUP:[Data] CDW:[Data]	<u> </u>	Up Down		 	0															
enu Right	CRT: [Data]	1	Right			Ö															
enu Left	CRT:[Data] CLT:[Data] DCB:[Data]	<u>1</u>	Left Camera			0															
olor Bar	QBR	1	Color Bar	ľ									ľ					O			
	OBR:[Data]	0	0.00/		<u> </u>													0	0		
1-1 D C-+	DCS:[Data]	1	0. 0% 7. 5%															O	O		
Color Bar Setup	OCS:[Data]																				
		1h	1step	supports only	0	supports only	0	supports only	0	0	0	0	0	0	0						
Menu Down	DDW:[Data]	Ah	10step	supports only 1h(1step)		1h(1step)		1h(1step)													
		1	Enter				0							0				\cap	0		0
Menu Enter	DIT:[data]	ı	Litter															O			
	-																				
Menu Left	DLT:[Data]	1h Ah	1step 10step	supports only 1h(1step)	0	supports only 1h(1step)	0	supports only 1h(1step)				0	0								
morra Eore	DET · [Ducu]	741		тт (тосор)		тт (тосор)	тт (тосор)	тт (то сор)	тт (тосор)	тт (тосор)	тт (тосор)	тт (то сор)		тт (то сор)							
Manua () I	DDC - [D - ± -]	1	Cancel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Menu Cancel	DPG:[Data]																				
		1h	1step	supports only	0	supports only	supports only 1h(1step)	supports only	0	supports only 1h(1step)				0	0		 				
Menu Right	DRT:[Data]	Ah	10step	1h(1step)		1h(1step)	1h(1step)	1h(1step)	supports only 1h(1step)	1h(1step)	1h(1step)	1h(1step)		1h(1step)							
		1h	1step	supports only	0	supports only	0	supports only	0	0	0	0	0	0	0						
lenu Up	DUP:[Data]	Ah	10step	1h (1step)		1h(1step)	1h(1step)	1h(1step)	1h (1step)	1h (1step)	1h(1step)	1h(1step)		1h (1step)		1	-		-		
	DUS:[Data]	n	Off	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Menu On/Off	QUS	1	0n	Ĭ	Ĭ	Ĭ			Ĭ	Ĭ	Ĭ		Ĭ			ľ		•		Ĭ	
	OUS:[Data]		Move to far	 	10	<u> </u>		<u> </u>	 	<u> </u>	 		<u> </u>			10					
Focus (Far) Focus (Near)	HFN_		Move to near		lŏ									ŏ	ŏ	ŏ	0			ŏ	ŏ
ocus (Stop)	HFS		Stop focus		0									0	0	0	0			0	0
Tocus (Stop) Zoom (Tele) Zoom (Stop) Zoom (Wide)	⊓∠ I HZS		Move to tele Stop zoom	 	10						 			0	0	0	0			0	0
Zoom (Wide)	HZW		Move to wide		Ŏ									ŏ	ŏ	ŏ	ŏ			ŏ	ŏ
l	LFP:[Data]	555h _	Near		0																
Control	[vata]	- FFFh	- Far	<u> </u>				<u> </u>				<u> </u>			<u> </u>						
		0	Slow		0									0	0	0	0			0	0
Focus Speed	LFS:[Data]	9	- Fast																		
Zoom Position		555h _	Wide -		0																
Control	LZP:[Data]	FFFh	Tele																		
		0	Claw	ļ		<u> </u>															
7 0 1	1.70. FD 1. 3	- -	Slow -		0										0					0	
Zoom Speed	LZS:[Data]	9	Fast																		
	OAF:[Data]	0	Manua l		<u> </u>							0			0			<u> </u>	0		0
Focus Mode	QAF	1	Auto	O		0				0								0)	O	
ABC/ABB SET	OAS		ABC/ABB Start	0		0	0		0	0		0	0	0	0	0	0	0	0		
White Balance Mode	OAW: [Data]	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*	*	*	*	*
Focus Adjust With	QAV OA7:[Data]	0	Off	0		0	0	0	0	0		0	0		0	0	0	0	0	0	0
PTZ	QAZ	1	0n	<u> </u>												ļ	0				
		00h _	-150 -										supports only OA(-100)					supports only OA(-100)	0		
B Pedestal	OBD:[Data]	1Eh	0										-					-			
D redestal	QBD	-	-										32 (+100)					32 (+100)			
		3Ch	+150																		
		000h	-150										0		0	0	0	0	0	0	0
		– 096h																			
		_	_																		
		12Ch	+150																		
	OBI:[Data]		<u>UE70series, HE75series, HE70serie</u>																		
3 Gain	QBI		<u>s, HE60, HE50</u>																		
		000h _	-30 -																		
		096h	0																		
		_ 12Ch	- 30																		
		12011	JU	<u> </u>											<u> </u>						
		00h	-30										0		0	0	0	0	0	0	0
		– 1Eh	0																		
		-	-																		
	OBG:[Data]	3Ch	+30																		
3 Gain	QGB		HR140, HE130, HE120																		
	OGB:[Data]	00h _	-150 -																		
		_ 1Eh	0																		
		-	-																		
		3Ch	150																		
		000h	-150	supports only					supports only	supports only		supports only	supports only					supports only -100∼+100	0		
D. DJ.	OBP:[Data]	– 096h	- 0	-100 ~ +100					-100 ~ +100	-100 ~ +100		-100 ~ +100	-100 ~ +100					−100 ~ +100			
3 Pedestal	QBP	_	-																		
		12Ch	+150																		
		00h	-3					supports only			supports only				supports only	supports only	supports only		supports only	supports only	supports only
		_ 03h	_ 					03h (0)			03h (0) -				00h (-3)	00h (-3) -	00h (-3) -		00h (-3) -	00h (-3) -	00h (-3) -
	OCG: [Data]	-	-					0Dh (10)			0Dh (10)				06h (3)	06h (3)	06h (3)		06h (3)	06h (3)	06h (3)
hroma Loval	QCG	06h	+3																		
Chroma Level	_	_	_	1	1																
Chroma Level		0Dh	10			1					-										
Chroma Level		0Dh	10																		
onrolla Level	ODE:[Data]	0Dh 0 1	10 Off On	0						<u> </u>		On mean x1.4	0	0	0	0	0	0			

ITEM	Command Control / Response /	Data	Data Contents Control and	UE1EOA	UDEO /UD10	UF1CO	UE80/UE50/UE40/UE	UE00/UE00	LID100	UE100	UEA	UE150 /UE145	LID140	Upago	IIEZO :	ucae ·	IIEZO :	UF100	UE100	UECO	UEFO
	Confirmation	0	Response to contol Off Low	UE150A	UB50/UB10	UE160	30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
		2	High																		
		0 1	<u>UE150A,</u> <u>UE160, UE100, UE150, HE145, HR140,</u> <u>UB300, HE130</u>																		
Detail	ODT:[Data] QDT	2	Off On																		
		0 1	0n <u>UE20/HW20/UE4</u>																		
		2 3	0 1																		
		0	3 Normal	0		0	0		0	0		0	supports only	supports only					supports only		
Error Information	QER	1 2	Fan Error Other Error										0(Normal) 1(Fan Error)	0(Normal) 1(Fan Error)					0(Normal) 1(Fan Error)		
Error Información	OER: [Data]																				
Flip Status	QFS OFS:[Data]	0	Normal Flip	0		0			0	0		0	0					0	0		
		0h 1h	1/4 ND	supports only Oh: Clear(Through)		supports only Oh:	UE80 supports only		0h:	supports only Oh:		supports only Oh:	supports only Oh: Clear	supports only Oh: Clear 1h: 1/4 ND	supports only Oh: Clear 1h: 1/4 ND	supports only Oh: Clear 1h: 1/4 ND		supports only Oh: Clear	supports only Oh: Clear		
ND Filter	OFT: [Data]	2ri 3h 4h	1/64 ND 1/8 ND	1h: 1/4 ND 2h: 1/16 ND		Clear (Through) 1h: 1/4 ND 2h: 1/16 ND	Oh: Clear(Through) 1h: 1/4 ND		1h: 1/4 ND 2h: 1/16 ND	Clear(Through) 1h: 1/4 ND 2h: 1/16 ND		Clear(Through) 1h: 1/4 ND 2h: 1/16 ND	4h: 1/8 ND	2h: 1/16 ND	2h: 1/16 ND	2h: 1/16 ND 3h: 1/64 ND		3h: 1/64 ND 4h: 1/8 ND	1h: 1/4 ND 2h: 1/16 ND 3h: 1/64 ND		
	ur i	5h 8h Eb	1/2 ND Auto ND NG	3h: 1/64 ND		3h: 1/64 ND	2h: 1/16 ND 3h: 1/64 ND 8h: Auto ND		3h: 1/64 ND 8h: Auto ND	3h: 1/64 ND		3h: 1/64 ND			8h: Auto ND	8h: Auto ND					
	 	01h	Low											0							
Gain Select	OGS:[Data]	04h 08h 06h	Mid High S. Gain1																		
	QGS	0Ch 0Eh	S. Gain2 S. Gain3																		
		02h -	-	supports only 05(-3dB)-		supports only 02(-6dB)-	supports only 08 (0dB) -32 (42dB),	supports only 08 (0dB) -32 (42dB),	supports only 08 (0dB) -32 (42dB),	supports only 08(0dB)-32(42dB),	08 (0dB) -32 (42dB)	supports only 05(-3dB)-	supports only 08 (0dB) -32 (42dB),		08h:0dB-38h:48dB	supports only 08h:0dB-38h:48dB	08h:0dB-38h:48dB	supports only 08(OdB)-2C(36dB),	supports only 08 (0dB) -1A (18dB),	supports only 08 (OdB) -1A (18dB)	supports only , 08 (0dB) -1A (18dB),
	OGU:[Data]	08h - 11h	0dB _ 9dB	32 (42dB) , 80 (AGC On)		14 (12dB), 80 (AGC On)	80 (AGC 0n)	80 (AGC On)	80 (AGC On)	80 (AGC On)		32 (42dB), 80 (AGC On)	80 (AGC 0n)			80h:AGC On Use only 3dB	80h:AGC On Use only 3dB	80 (AGC On)	80 (AGC On)	80 (AGC On)	80 (AGC On)
Gain	QGU	_ 1 A h	_ _ 18dB												step.	step.	step.				
		– 38h 80h	- 48dB AGC On																		
Horizontal Phase	OHP:[Data] QHP	000h _ 3FFh	-206 - +49	0			O (UE80)		0	0		0	0		0	0		0	0	0	0
Model Number	QID OID:[Data]		Returns model No. by ASCII	0	0	0	(UE50, UE40, UE30) O	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0Eh (=14) - 1Ch (=28)	F1. 4 - F2. 8	0	0	0	0	0	0	0		0		0							
		- 38h (=56)	F5. 6																		
		A0h (=160)	- F16 -																		
		FFh	Close																		
Request Iris F No.	QIF OIF:[Data]	<u>UB50, UB10</u> 08h (=8) -	<u>UB50, UB10</u> F0. 8 –																		
	on · [baca]	0Eh (=14) - 1Ch (=28)	F1. 4 - F2. 8																		
		- 38h (=56)	F5. 6																		
		A0h (=160)	- F16																		
		FFh	Close																		
		0	Off O	0		0	supports only		0	0		0	0		0	0	0	0			
		и <u>HR140</u>	HR140 Off				0(0ff), 1(0IS (STABLE)), 2(0IS (PAN/TILT))														
		0 1 2	Off OIS Dynamic I.S. System				(UE80) O (UE50, UE40, UE30)														
		<u>UE100</u>	UE100 Off				(0000, 0040, 0000)														
		0 1 2	015 Hybrid (STABLE)																		
OIS	OIS:[Data] QIS	3	Hybrid (PAN/TILT)																		
		<u>UE160, UE80</u> 0 1	<u>UE160, UE80, UR100</u> Off OIS (STABLE)																		
		2 3	OIS (PAN/TILT) HYBRID (STABLE) HYBRID (PAN/TILT)																		
		<u>UE150A</u>	UE150A Off																		
		0 1 2	Off OIS (STABLE) OIS (PAN/TILT)																		
		001h	See right										(59Hz)		(59. 94Hz) 001h (59. 94Hz)	(59. 94Hz) 001h (59. 94Hz)	(59. 94Hz) 001h (59. 94Hz)	(59Hz)	(59Hz) 001h (60. 17Hz)	(59Hz)	(N Model)
		- 0FFh											001h (60. 15Hz) - 0FFh (642. 21Hz)		-	001h (59. 94Hz) - 0FFh (660. 09Hz)	-	001h (60. 15Hz) - 0FFh (642. 21Hz)	001h (60. 17Hz) - 0FFh (646. 21Hz)	001h (60. 17Hz) - 0FFh (644. 25Hz)	001h (60. 17Hz) - 0FFh (644. 25Hz)
Synchro Scan	OMS:[Data] QMS												(50Hz)		(50Hz	(50Hz	(50Hz	(50Hz)	(50Hz)	(50Hz)	(E, MC Model)
													001h (50. 15Hz) - 0FFh (535. 71Hz)		001h (50. 00Hz) - 0FFh (570. 12Hz)	001h (50. 00Hz) - 0FFh (570. 12Hz)	001h (50. 00Hz) - 0FFh (570. 12Hz)	001h (50. 15Hz) - 0FFh (535. 71Hz)	001h (50. 19Hz) - 0FFh (537. 13Hz)	001h (50. 16Hz) - 0FFh (542. 42Hz)	001h (50. 16Hz) - 0FFh (542. 42Hz)
Start/Stop REC	ORC:[Data]	0	Stop		0																
		1 00h -	Start -150 -										supports only OA(-100)					supports only OA(-100)	0		
R Pedestal	ORD:[Data] QRD	1Eh - 20h	0 -										32 (+100)					32 (+100)			
		3Ch	+150														1				

ITEM	Command Control / Response /	Data	Data Contents Control and	HE4E04	UDEO /UDIO	HE400	UE80/UE50/UE40/UE	HEAD (HEAD	HB400	HE400		HE4E0 WE475	1104.40	LIDOGG	11570	UE3E .	LIEZO :	UE100	UE100	UEGG	UEEA
	Confirmation	0x0000	Response to contol Ready/Stopped	UE150A	UB50/UB10 O(query only)	UE160	30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
REC Status	QRE QRE:[Data]	0x0001 0x8001 0x8002 0x8003 0x8004 0x8005	Recording/Started Media not inserted Write Protect Media full Video recording not allowed																		
	1	00h -	Other recording not allowed -30										0		0	0	0	0	0	0 0)
		1Eh - 3Ch	0 - +30																	1	
R Gain	ORG: [Data] QGR		HR140, HE130, HE120																	1	
	OGR:[Data]	00h - 1Eh	-150 - 0																	1	
		- 3Ch	- 150																	1	
	+ +	000h _	-150 -	 		 			 			 	0	 	0	0	0	0	0	0 (D
		096h -	0																	1	
	ORI:[Data]	12Ch	+150 <u>UE70series, HE75series, HE70serie</u>																	1	
R Gain	ORI:[Data] QRI	000h	<u>s, HE60, HE50</u> -30	-																1	
		– 096h –	0																	1	
		12Ch	30																		
	ORP:[Data]	000h - 006h	-150 - 0	supports only -100∼+100					supports only -100∼+100	supports only -100~+100		supports only -100∼+100	supports only -100∼+100					supports only -100∼+100	0	-	
R Pedestal	QRP	096h - 12Ch	0 - +150																	1	
Iris Mode	ORS:[Data] QRS	0	Manual Auto	0	0	0	0	0	0	0	supports only 1 (Auto)	0	0	0	0	0	0	0	0	0 (<u>)</u>
Iris Control	ORV: [Data]	000h	Close -	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	()
	OSA:OO:[Data]	3FFh 0	Open Table A			0								0							
Linear Table	OSA:00:[Data] QSA:00	1 50h	Table B -48	supports only		0			supports only	supports only		supports only		0							
Master Black Gamm	0SA:07:[Data]	_ 80h	_ 0	78h (-8) -					78h (-8) -	78h (-8) - 88h (+8)		78h (-8) -								1	
	WOA · U /	B0h	+48	88h (+8)					88h (+8)			88h (+8)									
		6Ch - 71h	-20 -			0								0						-	
R Black Gamma	OSA:08:[Data] QSA:08	71h - 80h	-15 - 0																	1	
N DIACK GAIIIIIA	QSA:08	e 8Fh	- +15																		
		94h	+20																		
	T	6Ch - 71h	-20 - - -15			0								0						-	
B Black Gamma	OSA:09:[Data] QSA:09	71n - 80h	- 0																		
BINING VORIG	QSA:09	- 8Fh -	- +15 -																		
		94h	+20																		
Gamma SW	OSA:OA:[Data] QSA:OA	0	Off On			Ō								0						1	
Black Gamma SW	OSA:OB:[Data]	0	Off On			0				 		 		0					 		
DRS SW	QSA:OB OSA:OD:[Data] QSA:OD	0	Off On			0						 		0					 		
		1 00h	0	0								0		0							
Level (@FILM MENU FILM REC)	& OSA:OF:[Data] QSA:OF	1Eh	30																		
Dynamic Loyal		υ 1 2	200% 300% 400%											supperts only 0(200%) -						[-	
(@FILM MENU & FIL	OSA:10:[Data] QSA:10	- 3 4	400% 500% 600%											3 (500%)							
		n				0															
Flare SW	OSA:11:[Data] QSA:11	υ 1	Off On																_		
		22h - 80h	70.00% - 93.50%	support only 22h(70.00%) - B6h(107.00%) (1step=0.5%)	support only 4Ah (80.00%) - B6h (107.00%)	support only 4Ah (80.00%) - C2h (110.00%)			support only 22h(70.00%) - B6h(107.00%) (1step=0.5%)	support only 22h(70.00%) - B6h(107.00%) (1step=0.5%)		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%)			
Master Knee Point	t OSA:20:[Data] QSA:20	80h - B6h	93. 50% - 107. 00%	(107.00%) (1step=0.5%)	טטוו (107. 00%)	υ Σ ΙΙ (Ι Ι U . 00%)			(1step=0.5%)	(1step=0.5%)		(107. 00%) (1step=0. 5%)	(1step=0.5%)	 				0011(107.00%) (1step=0.5%)			
/@ΛΙΩΕΩ WEND)	43A - 2U	- G2h	110.00% (1step=0.25%)																		
	 	62h	(1step=0.25%) 30%	0								0		support only							
Master Knee Point	t 1004-01-50 + 3	_ 80h	- 60%											support only 62 (30%) -						1	
Master Knee Point (@FILM MENU & VID REC)	DEO QSA:21.[Data]	– 9Eh –	90%											9E (90%)							
	1	AFh	107%																		
	004-00-50 - 3	1Ch - 80h	-25. 00% - 0. 00%																		-
R Knee Point	OSA:22:[Data] QSA:22	– E4h	- +25.00% (1step=0.25%)																		
			(1step=0.25%)																		

The color The	ITEM	Command Control / Response /	Data	Data Contents	1]	HERO /HERO /HEAO /HE														
Second S	411111			Response to contol	UE150A	UB50/UB10	UE160	30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Column C		OSA:23:[Data]	_ 80h	_																		
Company Comp	B Knee Point	QSA:23		+25. 00%																		
Second S				0	support only	support only	0			support only	support only		support only	support only	0	<u> </u>			support only			
Company Comp	Master Knee Slope	OSA:24: [Data]	63h	99	00h(0) - 63h(99)	00h (0) - 63h (99)				00h(0) - 63h(99)	00h (0) - 63h (99)		00h (0) - 63h (99)	00h(0) - 63h(99)					00h (0) - 63h (99)			
Part	(@VIDEO MENO)	QSA · 24		199																		
Company Comp			-	_	0								7Ch (150%) -		0							
Color	Master Knee Slope (@FILM MENU & VIDE	0 OSA:25:[Data] QSA:25	_	_									83h (500%)									
State Stat	KEO)		1168	(1step=50%)																		
Property			-	-99 -			0								0							
March Marc	R Knee Slope (@VIDEO MENU)	OSA:26: [Data] QSA:26	_	0 - +99																		
Second S							0								0							
Second S	B Knee Slope	OSA:27:[Data]	_	_ 0																		
## 15	(@VIDEO MENU)	QSA:27		+99																		
Marie Mari															0							
Marie Mari	Auto Knee Point	OSA:28:[Data]	80h -	_																		
Marie Mari	(@VIDEO MENO)	QON - 20	B6h	107.00% (1step=0.25%)																		
March Marc	Auto Knee Level	OSA:29:[Data]	_	-											0							
The control of the	(@VIDEO MENU)	QSA:29	85h																			
State Stat			-	_	0		0	0		0	0		0	0					0			
The column The	White Clip Level	OSA:2A:[Data]																				
Part	milita orip Edvor	QSA:2A	_	_																		
Park 1			6Dh		supports only	supports only	supports only	supports only		supports only	supports only		supports only	supports only	supports only							
## 15 Supplies Fig. 1		054 - 20 - [Da+a]	1 2	Manua I	0 (Off) 1 (Manual)	1 (Manual)	1 (Manual)	2 (Auto)		0 (0ff) 1 (Manual)	1 (Manual)		1 (Manual)	1 (Manual)	1 (Manual)							
No. 1	Knee Mode	QSA:2D	3 4	Mid	2 (Auto)	2 (Auto)	2 (Auto)	4 (Mid)		2 (Auto)	2 (Auto)		2 (Auto)	2 (Auto)	2 (Auto)							
Fig.		0SA:2F:[Data]	0		0		0	O (ITIgII)		0	0		0	0					0			
No. 10 10 10 10 10 10 10 10	White Clip	QSA: 2E	1 61h		0	0	0	0		0	0		0	0	0	supports only	supports only	supports only	0		supports only	
State Stat			80h	- 0												81h(1)-91h(17) for Detail Level	81h(1)-91h(17) for Detail Level	81h(1)-91h(17) for Detail Level			81h(1)-91h(17) for Total Dtail	
Nation for all 100 to 1				+31												(L)	(L)	(L)			Level (L)	
### Refer (Page) Page Page			61h	0																		
Fig.	Master Detail	OSA:30:[Data] QSA:30	80h																			
Fig. 5 6 6 6 6 6 6 6 6 6																						
				-5 0850, 0810																		
			-	0 -																		
Potest Level Level Potest Level Lev			OAH	5		 									0	 						
Detail fain (-) Detail fai	H Detail Level	OSA:31:[Data] QSA:31	_	63																		
Start Star		057 - 38 - LDa+a1	_	-31 -	0		0			0	0		0		0							
Otal Galacy Otal Ota	Detail Gain(+)	QSA:38	-	0 - +31																		
Skin Tone Detail C6A-18 Detail Detail Detail C6A-18 Detail		+ +		101	0		0			0	0		0		0	<u> </u>						
Detail Source OSA:38: Data	Detail Gain(-)	OSA:39:[Data] QSA:39	_	0 -																		
Skin Tone Detail OSA-46: [Data] OSA-			9Fh	1											0							
Skin Tone Detail OSA-46: [Data] OSA-		054 · 2P · [Do+o]	1 2	(G+B)/2 (2G+B+R)/4																		
Skin Get	Detail Source	QSA:3B	3 4	(3G+R) /4 R																		
Skin Get	Chim Town Day 11	OSA:40:[Data]	0	Off	0	0	0	0		0	0		0		0	<u> </u>						
Skin Tone Detail I Center (HD)			1 0	0n 0ff											0	<u> </u>						
Skin Tone Detail OSA: 45: [Data]	Skin Get	USA:41 [DATA] QSA:41	2	Un Get																		
Skin Tone Detail OSA: 46: [Data]	Skin Tone Detail I Center(HD)	OSA:45:[Data] QSA:45	_	0 - 255			0								0							
Skin Tone Detail OSA:47:[Data]	Skin Tone Detail I Width(HD)	OSA:46:[Data] QSA:46	_	0 - 255			0								0							
Q Width (HD) QSA: 47 FFh 255	Skin Tone Detail	OSA: 47: [Data] OSA: 47	-	0 - 255			0			-					0							

	Command		Data Contents																		
ITEM	Control / Response / Confirmation	Data	Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Skin Tone Zebra	OSA:49:[Data] OSA:49	0	Off On			0								0							
	Q0A - 40	7 A h	-6dB											0							
		– 7Ch	_ 0dB																		
		_	_																		
Low Gain	OSA:50:[Data] QSA:50	80h -	12dB -																		
		86h	30dB																		
		- 88h	36dB																		
		7Ah _	-6dB -											0							
		7Ch	0dB																		
u : 1 0 :	OSA:51:[Data]	– 80h	12dB																		
Mid Gain	QSA:51	_ 86h	30dB																		
		-	_																		
		88h	36dB																		
		7 A h _	-6dB											0							
		7Ch	0dB																		
	OSA:52:[Data]	– 80h	- 12dB																		
High Gain	QSA:52	-	_																		
		86h -	30dB -																		
		88h	36dB																		
Super Gain Memory	OSA:60:[Data]	0 1	S. Gain1 S. Gain2											0							
Select	QSA:60	2	S. Gain3																		
		00h 06h	Off +6dB	supports only 00h(Off)-		supports only 00h(0ff)-	support only 00h(Off)-	support only 00h(Off)-	support only 00h(Off)-	support only 00h(Off)-		supports only 00h(Off)-	supports only 00h(Off)-	supports only 00h(Off)-	supports only 00h(Off)-	supports only 00h(Off)-	supports only 00h(Off)-	supports only 00h(Off)-	supports only 00h(Off)-	supports only 00h(Off)-	supports only 00h(Off)-
		0Ch	+12dB	18h (+24dB)		18h (+24dB)	18h (+24dB),	18h (+24dB),	18h (+24dB) .	18h (+24dB),		18h (+24dB)	18h (+24dB)	18h (+24dB)	18h (+24dB),	18h (+24dB),	18h (+24dB),	18h (+24dB)	18h (+24dB)	12h (+18dB),	12h (+18dB),
Frame Mix	OSA:65:[Data]	12h 18h	+18dB +24dB				80h (Auto)	80h (Auto)	80h (Auto)	80h (Auto)					80h (Auto)	80h (Auto)	80h (Auto)			80h (Auto)	80h (Auto)
	QSA:65	1Eh	+30dB																		
		80h	Auto																		
		58h	0. 15	supports only 67h(0.30)-		0	supports only		supports only	supports only		supports only	supports only 67h(0.30)-					supports only			
Master Gamma	OSA:6A:[Data] QSA:6A	– 80h	0. 55	67h (0. 30) – 94h (0. 75)			67h (0. 30) – 94h (0. 75)		supports only 67h(0.30)- 94h(0.75)	67h (0. 30) – 94h (0. 75)		supports only 67h(0.30)- 94h(0.75)	67h (0. 30) – 94h (0. 75)					67h (0. 30) – 94h (0. 75)			
master damma	QSA:6A	_	_																		
		94h	0.75																		
Linear Matrix	OSA:84:[Data]	0 1	Off On			supports only 0(Off), 1(On)								O							
LIIIGAI WALIIX	QSA:84	2	0n			, , , , , , , , , , , , ,															
Color Correction	WON - OO	0 1	Off On			0								0							
Format	OSA:87:[Data] QSA:87	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	₩ ∪ / 1 · U <i>I</i>							1													

ITEM	Command Control / Response /	Data	Data Contents				THESO /HEED /HEAD /HE														
	Confirmation OSA:88:[Data]	0	Control and Response to contol Off	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
OSD Status	QSA:88	1 61h	0n -31												supports only	supports only	supports only			supports only	
Total Dtail Level High	OSA:B1:[Data] QSA:B1	– 80h –	0 -	i											82h(2)-92h(18) for Detail Level(H)	82h(2)-92h(18) for Detail	82h(2)-92h(18) for Detail Level(H)	1		82h(2)-92h(18) for Total Detail Level (H)	
		9Fh	+31																		
Audio	OSA:DO:[Data] QSA:DO	1	Off On Mic High	Supports only		<u> </u>	Supports only	Supports only	Supports only	Supports only	 	Supports only	 	 				0			
Audi- 7 · T	OSA:D1:[Data]	1 2	Mic Middle Mic Low	supports only 0(Mic) 3(Line)			0 (Mic) 3 (Line)	0 (Mic) 3 (Line)	0 (Mic) 3 (Line)	0 (Mic) 3 (Line)		0 (Mic) 3 (Line)						, ,			
Audio Input Type	QSA:D1	3 4 5	Line High Line Middle Line Low	i														1			
Audio Plugin Power		0	Off On	0	 	 	0	0	 	0	 	0	 	 	0	0	0	0	 		
	USA:D2 OSA:D3:[Data] QSA:D3	0 1	Low Mid	0		0	0	 		0		0		 	 	 		0			
, 2. (8/16/1600	USA:D3	2 [Data1]	High [Data1]	1		0	 	 					0	 							
		0 1 [Data2]	CH1/CH3 CH2/CH4 [Data2]	i														1			
		0 1	+4dB 0dB -20dB	i														1			
Audio Line Input	OSA:D4:[Data1]:[Data 2] QSA:D4:[Data1]	<u>UE160</u> [Data1]	-2008 <u>UE160</u> [Data1]	i														1			
	aso[paca1]	0 1	Input1 Input2	i														1			
		[Data2] 0 1	[Data2] +4dB 0dB															l			
		[Data1] 0 1	[Data1] CH1 CH2	[Data1] supports only		[Data1] supports only 0(CH1)	[Data1] supports only O(CH1)	[Data1] supports only	[Data1] supports only	[Data1] supports only		supports only	[Data1] supports 0(CH1)-3(CH4) [Data2]	Ī							
	OSA:D5:[Data1]:[Data	2 3	CH2 CH3 CH4	supports only O(CH1) [Data2] supports only		1 (CH2) [Data2]	1 (CH2) [Data2]	O(CH1) [Data2] supports only	0 (CH1) 1 (CH2) [Data2]	O(CH1) [Data2] supports only		supports only	supports only					1			
Audio Volume Level	0SA:D5:[Data1].[Data 2] QSA:D5:[Data1]	[Data2] 58h -	[Data2] -40dB -	5Ch (-36dB) - 8C (12dB)		supports 58h(-40dB) -	supports only 5Ch(-36dB) -	5Ch (-36dB) - 8C (12dB)	supports only 62h(-30dB)	5Ch (-36dB) -		5Ch (-36dB) -	58h (-40dB) - 8C (12dB)					1			
		80h - 04b	0dB -	(step:3dB)		94 (20dB) (step:1dB)	8C(12dB) (step:3dB)	(step:3dB)	94(20dB) (step:1dB)	8C(12dB) (step:3dB)		8C(12dB) (step:3dB)	(step:1dB)					ı			
	06V-D6-1D0+-1	94h 0 1	20dB FS-12dB FS-18dR			0	 	 	<u></u>	<u></u>		<u> </u>	0	<u> </u>							<u></u>
Audio Head Room	USA:D6:[Data] QSA:D6	1 2 0	FS-18dB FS-20dB										0					 			
Audio Line CH Select	OSA:D7:[Data] QSA:D7	1 2 3	CH1/CH2 CH3/CH4 None															1			
SC Coarse	OSC:[Data] QSC	*	*																	*	*
H Detail Level H	OSD:OA:[Data] QSD:OA	02h - 3Fh	2 - 63																O		
V Detail Level H	OSD:OE:[Data] QSD:OE	02h -	2 -	 				 											0		
	+	1Fh 01h	31	<u></u>												 			0		
H Detail Level L	OSD:12:[Data] QSD:12	– 3Eh	62																		
V Detail Level L	OSD:16:[Data] QSD:16	01h - 1Eh	30			_															
Detail Band	OSD:1E:[Data] QSD:1E	01 - 05	01 - 05																		
Noise Suppress /Crisp	OSD:22:[Data] QSD:22	00h - 3Fh	0 - 63			0							support only 00(0)-3C(60)	0				support only 00(0)-3C(60)	support only 00 (0) -07 (7)		
Level Dependent	OSD:26:[Data] QSD:26	00h - 0Fh	00 - 15			0								O							
Motor: /D C	000-05-50 + 3	00h - 15b	-31 - 0	1		0													0		
Matrix(R-G) /Matrix(R-G)_N	บอม: ZF: [Data] QSD: 2F	1Fh - 3Eh	0 - +31															1.			
	+	00h -	-31 -	 	 	0				 	 	 				 			0		
Matrix(R-B) /Matrix(R-B)_N	OSD:30:[Data] QSD:30	- 1Fh -	0 -	i														1			
	+	3Eh 00h	+31	<u> </u>	<u> </u>	0			<u> </u>		 	 	<u> </u>	<u> </u>	 	 			0	<u> </u> .	
Matrix(G-R) /Matrix(G-R)_N	OSD:31:[Data] QSD:31	– 1Fh –	_ 0 _	· ·														1			
,/ (M II/ _IV		3Eh	+31																		
Matrix(G-B) /Matrix(G-B)_N	OSD:32:[Data]	00h - 1Fh	-31 - 0																		
/Matrix(G-B)_N	QSD:32	3Eh	+31															1.			
Matric (D. D)	000.33.10=+-3	00h - 1Fb	-31 - 0			0		 	 		<u></u>				-	<u></u>			0		
Matrix(B-R) /Matrix(B-R)_N	oop.33.[µata] QSD:33	1Fh _ 3Eh	0 - +31	· i														1.			

	Command		Data Contents				I														
ITEM	Control / Response / Confirmation	Data 00h	Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Matrix(B-G) /Matrix(B-G)_N	OSD:34:[Data]	- 1Fh	-31 - 0																		
/Matrix(B-G)_N	QSD:34	– 3Eh	- +31																		
		90 ~	−100 ~											0							
Flare R	OSD:35:[Data] QSD:35	FF 00 01	-1 0 +1																		
		~ 64	+100																		
		9C ~	−100 ~										<u> </u>	0		<u> </u>					<u> </u>
Flare G	OSD:36:[Data] QSD:36	FF 00	-1 0																		
	QSD:36	01 ~ 64	+1 ~ +100																		
		90	-100	<u></u>							<u> </u>			0					<u> </u>		
	OSD:37:[Data]	~ FF 00	~ -1 0																		
Flare B	QSD:37	01 ~	+1 ~																		
		00	+100 Off	0	 	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		01 02	Low High																		
DNR	OSD:3A:[Data] QSD:3A	<u>UE160, AK-UB300</u> 00	<u>UE160, UB300</u> Off																		
		01 02	On On																		
			UE150A, UE160, UE100, UE20, HE20, UE 4.	0	supports only 2Fh(-3)	0	0	supports only 2Eh(-4)	0	0	supports only 2Eh(-4)	0	0	0	0	0	0	0	0	0	0
		00h -	<u>UE150, HE145, HR140, HE130</u> –50		- 35h (3)			- 36h (4)			- 36h (4)										
		32h - 64h	_ 0 _																		
			+50																		
		00h _	<u>UE70series, HE75series,</u> <u>HE70series, HE120</u> -10																		
Picture Level /A.Iris Level /Iris Offset	OSD:48:[Data] QSD:48	32h -	0																		
/Iris Offset	QSD: 48	64h	10																		
		00h -	<u>HE60, HE50</u> –5																		
		32h - 64h	_ 0 _																		
			5																		
		00h - 64h	<u>UB300</u> 0 -																		
		00	100 0ff																0		
Flesh Noise Suppress	OSD:4B:[Data] QSD:4B	01 02	Low High																		
Iris Follow	QSD:4F OSD:4F:[Data]	00h	Close	0		0	0	0	0	0	 -	0	0		0	0	0	0	0	0	0
	OSD:4F:[Data]	FFh 00	Open Low					0			10				0		0			0	0
		01 02	Mid High																		
Contrast (Gamma)	OSD:50:[Data] QSD:50	0	<u>UE20/HE20/UE4</u> 0																		
		4	4																		
Output Select	OSD:65:[Data]	00 01	RGB YPbPr																Y/C is Valid		
	QSD:65	02 01	Y/C	supports only		supports only	supports only	supports only	supports only	supports only	supports only	supports only	supports only		supports only	supports only	supports only	supports only	supports only	supports only	supports only
		02 03 04	18dB	01 (6dB) - 03 (18dB)		01 (6dB) - 02 (12dB)	01 (6dB) - 06 (36dB)	04 (24dB) - 07 (42dB)	01 (6dB) - 06 (36dB)	01 (6dB) - 03 (18dB)	04 (24dB) - 07 (42dB)	01 (6dB) - 03 (18dB)	01 (6dB) - 03 (18dB)		01 (6dB) - 08 (48dB)	01 (6dB) - 08 (48dB)	01 (6dB) - 08 (48dB)	01 (6dB) - 03 (18dB)	01 (6dB) - 03 (18dB)	01 (6dB) - 03 (18dB)	01 (6dB) - 03 (18dB)
AGC Max Gain	OSD:69:[Data] QSD:69	05 06	30dB 36dB 42dB	00 (1042)		02 (1245)	00 (0002)	(1245)	00 (0002)	66 (1642)	(12ub)	(Toub)	CC (10dE)		co (Todb)	00 (1002)	(1842)	(1645)	os (roas)	(16ub)	00 (1002)
		07 08	42dB 48dB																		
		01h	-127 -	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	supports only 01h(-127)				supports only 41h(-63)	0		
Color Correction B_Mg Saturation	QSD:80:[Data]	80h – FFh	0 - +127	– BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)				BFh (+63)			
		01h	-127	supports only	supports only	supports only	supports only		supports only	supports only		supports only	supports only	0				supports only	0		
Color Correction B_Mg Phase	OSD:81:[Data] QSD:81	- 80h -	0 –	41h (-63) - BFh (+63)	49h (-55) - B7h (+55)	01h (-127) - FEh (+126)	41h (-63) - BFh (+63)		41h (-63) - BFh (+63)	41h (-63) - BFh (+63)		41h (-63) - BFh (+63)	41h (-63) - BFh (+63)					41h (-63) - BFh (+63)			
_ 5		FFh	+127																		
Color Correction	OSD:82:[Data]	01h - 80h	-127 - 0	supports only 41h(-63) -	supports only 49h(-55) -	supports only 01h(-127) -	supports only 41h(-63)		supports only 41h(-63) -	supports only 41h(-63) -		supports only 41h(-63) -	supports only 41h(-63)	supports only 01h(-127) -	supports only 61h(-31) -	supports only 61h(-31) -	supports only 61h(-31) -	supports only 41h(-63) -			
Mg Saturation	OSD:82:[Data] QSD:82	- FFh	+127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)	9Fh (+31)	9Fh (+31)	9Fh (+31)	BFh (+63)			
	+	01h -	-127 -	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	0	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	0		
Color Correction Mg Phase	OSD:83:[Data] QSD:83	80h -	0 -	_	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	BFh (+63)	BFh (+63)			
		FFh	+127																		

ITEM	Command Control / Response /	Data	Data Contents			1			1		1	1									
I I EIWI	Confirmation		Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Calar Carreation	OSD:84:[Data]	01h _ 20h	-127 -	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	Supports only 01h(-127)	supports only 61h(-31)	supports only 61h(-31)	supports only 61h(-31)	supports only 41h(-63)	O		
Color Correction Mg_R Saturation	QSD:84 [Data]	80h - FFh	- +127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)	9Fh (+31)	9Fh (+31)	9Fh (+31)	BFh (+63)			
		01h	-127	supports only	supports only	supports only	supports only -		supports only	supports only		supports only	supports only	0	supports only	supports only	supports only	supports only	0		
Color Correction		– 80h	- 0	41h (-63) -	49h (-55) -	01h (-127) -	41h (-63) -		41h (-63) -	41h (-63) -		41h (-63) -	41h (-63) -		41h (-63) -	41h (-63) -	41h (-63) -	41h (-63) -			
Mg_R Phase	QSD:85	– FFh	+127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	BFh (+63)	BFh (+63)			
		01h	-127 -	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only -		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	supports only 01h(-127)	supports only 61h(-31)	supports only 61h(-31)	supports only 61h(-31)	supports only 41h(-63)	0		
Color Correction R Saturation	OSD:86:[Data] QSD:86	80h -	0 -	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)	-	9Fh (+31)	9Fh (+31)	BFh (+63)			
		FFh	+127																		
0-1 0	000.07.50-4-1	01h _ 20b	-127 -	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	0	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	0		
Color Correction R Phase	OSD:87: [Data] QSD:87	80h - FFh	0 - +127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	BFh (+63)	BFh (+63)			
		01h	-127	supports only	supports only	supports only	supports only -		supports only	supports only		supports only	supports only	supports only				supports only	0		
Color Correction		– 80h	_ 0	41h (-63) -	49h (-55) -	01h (-127) -	41h (-63) -		41h (-63) -	41h (-63) -		41h (-63) -	41h (-63)	01h (-127)				41h (-63) -			
R_YI Saturation	QSD:88	– FFh	+127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)				BFh (+63)			
		01h _	-127	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only -41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	0				supports only 41h(-63)	0		
Color Correction R YI Phase	OSD:89:[Data] QSD:89	80h _	0	BFh (+63)	4911 (=55) - B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)					BFh (+63)			
1		FFh	+127		37.11 (337		J (33)		J (00)	J \ 33,		3(33)	J (33,					J (55)			
		01h -	-127 -	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	supports only 01h(-127)	supports only 61h(-31)	supports only 61h(-31)	supports only 61h(-31)	supports only 41h(-63)	0		
Color Correction Yl Saturation	OSD:8A:[Data] QSD:8A	80h - FFh	0 - +127	- BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)	9Fh (+31)	9Fh (+31)	9Fh (+31)	BFh (+63)			
		01h	-127	supports only	supports only	supports only	supports only -		supports only	supports only		supports only	supports only	0	supports only	supports only	supports only	supports only	0		
Color Correction	OSD:8B:[Data]	- 80h	- 0		49h (-55) -	01h (-127) -	41h (-63) -		41h (-63)	41h (-63) -		41h (-63)	41h (-63)		41h (-63) -	41h (-63) -	41h (-63)	41h (-63) -			
YI Phase	QSD:8B	– FFh	- +127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	BFh (+63)	BFh (+63)			
		01h	-127	supports only	supports only	supports only	supports only -		supports only	supports only		supports only	supports only	supports only				supports only 41h(-63)	0		
Color Correction YI_G Saturation	OSD:8C:[Data]	_ 80h _	0	_	49h (-55) - B7h (+55)	01h (-127) - FEh (+126)	41h (-63) - BFh (+63)		41h (-63) - BFh (+63)	41h (-63) - BFh (+63)		41h (-63) - BFh (+63)	41h (-63) - BFh (+63)	01h (-127) - FEh (+126)				HTN (-63) - BFh (+63)			
TT_u Gaturation	QOD . 00	FFh	+127	DI 11 (1 00)	B/II(100)	11 (1120)	DI II (100)		DI II (100)	Di II (100)		Di II (100)	DI II (100)	1 (11 (120)				DITI(100)			
		01h -	-127 -	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	0				supports only 41h(-63)	0		
Color Correction YI_G Phase	OSD:8D:[Data] QSD:8D	80h - -	0 -	- BFh (+63)	- B7h (+55)	- FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		– BFh (+63)	- BFh (+63)					- BFh (+63)			
		FFh 01h	+127 -127	supports only	supports only	supports only	supports only -		supports only	supports only	 	supports only	supports only	supports only	supports only	supports only	supports only	supports only			
Color Correction	OSD:8E:[Data]	_ 80h	- 0		49h (-55)	01h (-127)	41h (-63)		41h (-63)	41h (-63)		41h (-63)	41h (-63)	01h (-127)	61h (-31)	61h (-31)	61h (-31)	41h (-63)			
G Saturation	QSD:8E	– FFh	- +127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)	9Fh (+31)	9Fh (+31)	9Fh (+31)	BFh (+63)			
		01h	-127	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only -		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	0	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	0		
Color Correction G Phase	OSD:8F:[Data] QSD:8F	80h _	0	BFh (+63)	_	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)		-	BFh (+63)	BFh (+63)	- BFh (+63)			
		FFh	+127	J (33)	2(03/		J (33)		2	J (33,		2(33)	J (33,			J	J (35,	J (55)			
	000 00 50 1 7	01h -	-127 -		supports only 49h(-55)	supports only 01h(-127)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	supports only 01h(-127)	supports only 61h(-31)	supports only 61h(-31)	supports only 61h(-31)	supports only 41h(-63)	0		
Color Correction G_Cy Saturation		80h - FFh	0 - +127	- BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)	9Fh (+31)	9Fh (+31)	9Fh (+31)	BFh (+63)			
		01h	-127	supports only	supports only	supports only	supports only -		supports only	supports only		supports only	supports only	0	supports only	supports only	supports only	supports only	0		
Color Correction	OSD:91:[Data]	– 80h	- 0	_	49h (-55) -	01h (-127) -	41h (-63) -		41h (-63) -	41h (-63) -		41h (-63) -	41h (-63) -		41h (-63) -	41h (-63) -	41h (-63) -	41h (-63) -			
G_Cy Phase	QSD:91	– FFh	+127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	BFh (+63)	BFh (+63)			
		01h _	-127 -	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only -		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	supports only 01h(-127)	supports only 61h(-31)	supports only 61h(-31)	supports only 61h(-31)	supports only 41h(-63)	0		
Color Correction Cy Saturation	OSD:92:[Data] QSD:92	80h -	0 -	- BFh (+63)	- B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)	_	9Fh (+31)	9Fh (+31)	BFh (+63)			
		FFh	+127																		
Color Correction	OSD:93:[Data]	01h - 80h	-127 - 0	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	O	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	O		
Color Correction Cy Phase	QSD:93:[Data]	80n - FFh	0 - +127	- BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	BFh (+63)	BFh (+63)			
		01h	-127	supports only	supports only	supports only	supports only -		supports only	supports only		supports only	supports only	supports only				supports only	0		
Color Correction		_ 80h	0	41h (-63) -	49h (-55) -	01h (-127) -	41h (-63) -		41h (-63) -	41h (-63) -		41h (-63) -	41h (-63) -	01h (-127)				41h (-63) -			
Cy_B Saturation	QSD:94	– FFh	+127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)				BFh (+63)			
	 	01h -	-127 -	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127)	supports only -41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	0			 	supports only 41h(-63)	0		
Color Correction Cy_B Phase	OSD:95:[Data] QSD:95	80h	0 -	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)					BFh (+63)			
		FFh	+127	auman I	lauma and	laura est	lauma suri						laure !	August 1	aum and de	aures 1					
Color Correction	OSD:96:[Data]	01h - 80h	-127 - 0	supports only 41h(-63)	supports only 49h(-55)	supports only 01h(-127) -	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)		supports only 41h(-63)	supports only 41h(-63)	supports only 01h(-127) -	supports only 61h(-31)	supports only 61h(-31)	supports only 61h(-31)	supports only 41h(-63)			
B Saturation	QSD:96	80n - FFh	- +127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	FEh (+126)	9Fh (+31)	9Fh (+31)	9Fh (+31)	BFh (+63)			
	+	01h	-127	supports only	supports only	supports only	supports only -		supports only	supports only		supports only	supports only	0	supports only	supports only	supports only	supports only	0		
Color Correction		– 80h	0	41h (-63) -	49h (-55) -	01h (-127) -	41h (-63) -		41h (-63) -	41h (-63) -		41h (-63) -	41h (-63) -		41h (-63) -	41h (-63) -	41h (-63) -	41h (-63) -			
B Phase	QSD:97	– FFh	- +127	BFh (+63)	B7h (+55)	FEh (+126)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)	BFh (+63)	BFh (+63)			
				<u> </u>	<u> </u>	<u> </u>								ļ	<u> </u>						

Column C	ITCH	Command	Det-	Data Contents	<u> </u>	<u> </u>	T	HEOCAUSES ASSESSED		1	ı				I	T	T		ı		
Part	ITEM	Control / Response / Confirmation	Data Data1		UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE60 suports only -	HE50
## Company of Company				Browser/Video																Output O(Browser/Video),	
August A		0\$D:08:[Da+a1]:[Da+a	<u>Data2</u> 0																	1 (SDI/HDMI, Component)	
Company Comp	laracter wix	2]	1 2																	Character Mix Select 2(Off By Browser)	
Company Comp																				is Valid When Output is	
Part																				1(SDI/HDMI, Compon	
Company Comp		000 04 50 1 3	-	-63 -	0	supports only 49h(-55)		0		0) <u> </u>		0	0) -	 	
Part	olor Correction (g_R_R Saturation (OSD:9A:[Data] QSD:9A	_	0 -		-															
Part			41h		0	supports only		0		0 ()		0	0				(0 -	 -	
Column C	olor Correction (g R R Phase	OSD:9B:[Data] QSD:9B	80h	0		-															
Part																					
State Stat	olor Correction (OSD:9C:[Data]	_	-63 - 0	O	49h (-55)		0				-	O	0		61h (-31)	61h (-31)	61h (-31)]	 	
March Marc	_R_YI Saturation (QSD:9C	_	+63		B7h (+55)										9Fh (+31)	9Fh (+31)	9Fh (+31)			
Part				-63 -	0	supports only 49h(-55)		0		0)		0	0		0	0	0	O -	 	
Part	olor Correction (_R_YI Phase (OSD:9D:[Data] QSD:9D	_	0 -		-															
Control Cont			41h		0	supports only		0		0 0)		0	0		supports only	supports only	supports only	o -	 	
Mart	olor Correction _YI_YI Saturation (OSD:9E:[Data] QSD:9E		0 -		I-										I -	I-	1-			
Control Cont				+63				0		0				0						 	
The late	olor Correction (OSD:9F:[Data]	_	_ 0		 -															
## 1	_YI_YI Phase (QSD : 9F		+63		B7h (+55)															
Company Comp		OSD:A1:[Data]	_	-7 - 0	0			0		0)		0	0					0 -	 	
Mate	Detail Level	QSD: A1	_	- 7																	
Marting Registration			79h -	-7 -	0					0)		0	0) -	 	
Property	etail Band Detail Frequency (OSD:A2:[Data] QSD:A2	_	0 -																	
## 15 40 50 50 50 50 50 50 5	lesh Tone Moise		80h	0	0	0		0		0 0)		0	0				())	 	
## 15 40 50 50 50 50 50 50 5	uppress Skin Detail Effect	OSD:A3:[Data] QSD:A3		31																	
Second S			41h -	-63 -	0	0		0		0	- -		0	0) -	 	
Matrix (2-4) 98.45 (Data)	atrix(R-G)	USD:A4:[Data] QSD:A4	_	0 -																	
Matrix (# 10 10 10 10 11 11 11 11 11 11 11 11 11				-63	0	0		0		0 0)		0	0				(O -	 	
Matrix (# 10 10 10 10 11 11 11 11 11 11 11 11 11	atrix(R-B)	OSD:A5:[Data] QSD:A5	80h -	0 -																	
Matrix (30-10) Matr				63				0						0						 	
Series S	atrix(G-R)	OSD:A6:[Data]	_	_ _ 0																	
Natrix (G E) Natr	(QSD: A6		63																	
Natrix (8-8) O		000: A7: [Data]	-	-63 -	0	0		0		0			0	0				() -	 	
Matrix (B-40 1887-148 1841 18	atrix(G-B)	QSD:A7	_	0 - 63																	
Metrix (B-R)			41h		0	0		0		0 ()	_	0	0				(0 -	 	
Matrix (B-6)	atrix (B-R)	OSD:A8:[Data] QSD:A8	80h -	0 -																	
Matrix (B-G)				63 -63	0	0		0		0 0)		0	0))	 	
BFh 63	atrix(B-G)	OSD: A9: [Data]	– 80h	0																	
Color Correction OSD: AA: [Data] Sob: AA = Data of Color Correction OSD: AA = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB: [Data] Sob: AB = Data of Color Correction OSD: AB = Data of		GOD : WA	BFh	63																	
9Fh +31	olor Correction (OSD:AA:[Data]	_	-31 - 0												0	0	0	-	 	
Color Correction Cy_Cy_B Phase OSD: AB: [Data] 80h 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	y_Cy_B Saturation (QSD: AA	_	- +31																	
BFh +63										-						0	0	0 -	-	 	
	olor Correction (y_Cy_B Phase (USD:AB: [Data] QSD:AB	_	0 -																	
			61h	+63 -31			 		 	-						0	0	0 -	-	 -	
Color Correction OSD: AC: [Data] 80h 0 Cy_B_B Saturation QSD: AC	olor Correction (y_B_B Saturation (OSD:AC:[Data] QSD:AC	80h	0 -																	
9Fh +31			9Fh																	 	
Color Correction OSD: AD: [Data] 80h 0	olor Correction (OSD:AD:[Data]	_	-03 - 0						-						ľ					
Cy_B_B Phase QSD: AD	y_B_B Phase (QSD: AD	_	+63																	

ITEM	Command	No+o	Data Contents				HEOD /HEED /HEAD /HE		1			1						I			<u> </u>
11EM	Control / Response / Confirmation	Data 00h	Control and Response to contol Off	UE150A supports only	UB50/UB10	UE160 supports only	UE80/UE50/UE40/UE 30 supports only	UE20/HE20	UR100 supports only	UE100 supports only	UE4	UE150/HE145	HR140 supports only	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
		1Ch -	-100% -	00 (0ff), 1D (-99%) -		00 (0ff), 1C (-100%) -	00 (0ff), 1D (-99%) -		00 (0ff), 1D (-99%) -	00 (0ff), 1D (-99%) -		00 (0ff), 1D (-99%) -	00 (0ff), 1D (-99%) -					00 (0ff), 1D (-99%) -			
		80h -	0 -	E3 (99%)		A8 (40%)	E3 (99%)		E3 (99%)	E3 (99%)		E3 (99%)	A8 (40%)					A8 (40%)			
		A8h _ 	40% 99%																		
Chroma Level	OSD:B0:[Data] QSD:B0	E3h <u>AK-UB300</u>																			
		00h 1Dh	<u>UB300</u> -100% -99%																		
		- 80h -	0																		
		_ A 8h	40%																		
Color Temperature	OSD:B1:[Data] QSD:B1	*	*										*		*	*	*	*			
Night Mode Select	OSD:B2:[Data] QSD:B2	0 1	Manua I Auto												0	O	O				
		0 1	Disable Enable	[Zoom Mode] -Opt Zoom OSE:70:0		[Zoom Mode] -Opt Zoom OSE:70:0	[Zoom Mode] -Opt Zoom OSE:70:0	[Zoom Mode] -Opt Zoom OSE:70:0	[Zoom Mode] -Opt Zoom OSE:70:0	[Zoom Mode] -Opt Zoom OSE:70:0		[Zoom Mode] -Opt Zoom OSE:70:0			O	O	O				
	05D-83-[Da+a]			OSD:B3:0 -i Zoom		0SD:B3:0 -i Zoom	OSD:B3:0 -i Zoom	OSD:B3:0 -i Zoom	OSD:B3:0 -i Zoom	OSD:B3:0 -i Zoom		OSD:B3:0 -i Zoom									
i. Zoom	OSD:B3:[Data] QSD:B3			0SE:70:0 0SD:B3:1		0SE:70:0 0SD:B3:1	0SE:70:0 0SD:B3:1	0SE:70:0 0SD:B3:1	0SE:70:0 0SD:B3:1	0SE:70:0 0SD:B3:1		0SE:70:0 0SD:B3:1									
				-D Zoom OSE:70:1 OSD:B3:0		-D Zoom OSE:70:1 OSD:B3:0	-D Zoom OSE:70:1 OSD:B3:0	-D Zoom OSE:70:1 OSD:B3:0	-D Zoom OSE:70:1 OSD:B3:0	-D Zoom OSE:70:1 OSD:B3:0		-D Zoom OSE:70:1 OSD:B3:0									
	+ +	0	Off								 				supports only	supports only	supports only				
HDR	OSD:B4:[Data] QSD:B4	1 2 3	Low Mid High												0 (Off), 1 (Low), 3 (High)	U(Utt), 1(Low), 3(H igh)	0 (0ff), 1 (Low), 3 (High)				
	0SD:R7:[Data]	0	Low Mid												0	0	0				
Night-Day Level	QSD:B7	2	Mid High																		
Digital Extended	UCD BO · [Da+a]	0 1	x1. 4 x2. 0												0	0					
Digital Extender Magnification	OSD:B8:[Data] QSD:B8	2 3 4	x4. 0 x6. 0 x8. 0																		
	+	0h	720/60p												[59. 94Hz]	[59. 94Hz]					
		1h 2h 3h	720/59. 94p 720/50p 1080/60i												supports only 1h(720/59.94p) 4h(1080/59.94i)	supports only 1h(720/59.94p) 4h(1080/59.94i)					
		4h 5h	1080/59. 94 i 1080/50 i												7h (1080/29. 97psF) 10h (1080/59. 94p)	7h (1080/29. 97psF) 10h (1080/59. 94p)					
		6h 7h	1080/30psF 1080/29.97psF												14h (1080/29. 97p)	14h (1080/29. 97p)					
		8h 9h Ah	1080/25psF 1080/24psF 1080/23.98psF												[50Hz] supports only 2h(720/50p)	[50Hz] supports only 2h(720/50p)					
Format_SDI	OSD:B9:[Data] QSD:B9	Bh Ch	480/59. 94 i 480/29. 97psF												5h (1080/50i) 8h (1080/25psF)	5h (1080/50i) 8h (1080/25psF)					
		Dh Eh	576/50i 576/25psF												11h (1080/50p) 15h (1080/25p)	11h (1080/50p) 15h (1080/25p)					
		10h 11h 12h	1080/59, 94p 1080/50p																		
		12h 13h 14h	480/59. 94p 576/50p 1080/29. 97p																		
		15h 16h	1080/25p 1080/23, 98p																		
	+	0	TYPE2:FULL	supports only		0	supports only		supports only	supports only		supports only			supports only	supports only	V1. 21+AW-SFU01				
Color Bar Type	OSD:BA:[Data] QSD:BA	1 2 3	TYPE1:SMPTE TYPE3:ARIB (MULTI) TYPE4: ARIB (UHD MULTI)	O(Type2(Full BAR/EBU)),1(Type1 (SMPTE))			0(Type2(Full BAR/EBU)),1(Type1 (SMPTE))		O(Type2(Full BAR/EBU)), 1(Type (SMPTE))	0 (Type2 (Full BAR/EBU)), 1 (Type1 (SMPTE))		0 (Type2 (Full BAR/EBU)), 1 (Type1 (SMPTE))			O(Type2(Full BAR/EBU)),1(Type1 (SMPTE))	0 (Type2 (Full BAR/EBU)), 1 (Type1 (SMPTE))	supports only 0(Type2(Full BAR/EBU)),1(Type1				
	300.0/1	4	TYPE5 : ARIB (BT. 2020)	(Oill IL/)			(OMITE//		Omi IL//	Voiii 1L//		(Jilli IL/)			(Onli IL/)	(Onli IL/)	(SMPTE))				
ALC	OSD:BB:[Data] QSD:BB	0 1	Off On												0	0	V1. 21+AW-SFU01				
Equalize	OSD:BC:[Data]	0	Off Low Cut												0	0	V1. 21+AW-SFU01				
	QSD:BC	0	Voice Off			0									0	0	V1. 21+AW-SFU01				
Color Bar Title	QSD:BE	1	0n [59. 94Hz] [50Hz]	supports only		supports only	0		0	supports only		supports only			0						
		0 1	0ff 0ff 1/60 1/50	2 (1/100), 3 (1/120),		2 (1/100), 3 (1/120),				2 (1/100), 3 (1/120), 4 (1/250)		2 (1/100), 3 (1/120), 4 (1/250)									
		2 3	1/100 1/100 1/120 1/125	4 (1/250)		4 (1/250)				4 (1/250)		4 (1/250)									
Auto Shutter Limit	OSD:BF:[Data]	4																			
naco onuccor Ellill	QSD:BF	2 3	<u>UE160, UE80, UE50, UE40, UR100, UE100, UE150</u> 1/100																		
		4 5	1/120 1/250 1/500 1/1000																		
		5 7	1/500 1/1000 1/2000																		
	000.00.55	61h -	-31 -												0	0	0				
Color Correction B_B_Mg Saturation	USD:CO:[Data] QSD:CO	80h - 05h	0 -																		
	-	9Fh 41h	+31 -63												0	0	0				
Color Correction B_B_Mg Phase	OSD:C1:[Data] QSD:C1	- 80h -	0																		
ט_ט_ווק ווומסט	355.51	BFh	+63																		
Color Correction	OSD:C2:[Data]	61h - 80h	-31 - 0												O	O	O				
Color Correction B_Mg_Mg Saturation	QSD:C2	80n - 9Fh	+31																		
		41h	-63 -												0	0	0				
Color Correction B_Mg_Mg Phase	OSD:C3:[Data] QSD:C3	- 80h -	0 -																		
		BFh	+63																		

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Color Correction YI_YI_G Saturation	OSD:C4:[Data] QSD:C4	61h 80h 9Fh	-31 - 0 - +31												0	0	0				
Color Correction YI_YI_G Phase	OSD:C5:[Data] QSD:C5	41h - 80h - BFh	-63 - 0 - +63												0	0	0				
Color Correction YI_G_G Saturation	OSD:C6:[Data] QSD:C6	61h - 80h - 9Fh	-31 - 0 - +31												0	0	0				
Color Correction YI_G_G Phase	OSD:C7:[Data] QSD:C7	41h - 80h - BFh	-63 - 0 - +63												0	0	0				
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(0ff), 1(Low), 3(High)				
D/C Mode (D/C Board)	OSE:20:[Data] QSE:20	0 1 2 3	Side Cut Squeeze Letter Box Link															0	0	0	0
Matrix Type /Preset Matrix	OSE:31:[Data] QSE:31	0 1 2 3 4 <u>UE160</u> 0 1 2 3	Normal EBU Matrix NTSC Matrix User Professional <u>UE160</u> Normal Cinema1 Cinema2 User	supports only O(Normal) 1(EBU Matrix) 2(NTSC Matrix) 3(User)			supports only O(Normal) 3(User) 4(Professional)		supports only O(Normal) 3(User) 4(Professional)	supports only 0(Normal) 1(EBU Matrix) 2(NTSC Matrix) 3(User)		supports only 0(Normal) 1(EBU Matrix) 2(NTSC Matrix) 3(User)	supports only O(Normal) 1(EBU Matrix) 2(NTSC Matrix) 3(User)		supports only O(Normal) 1(EBU Matrix) 2(NTSC Matrix) 3(User)	supports only 0(Normal) 1(EBU Matrix) 2(NTSC Matrix) 3(User)	supports only O(Normal) 1(EBU Matrix) 2(NTSC Matrix) 3(User)	supports only O(Normal) 1(EBU Matrix) 2(NTSC Matrix) 3(User)	supports only O(Normal) 1(EBU Matrix) 2(NTSC Matrix) 3(User)	supports only 0(Normal) 1(EBU Matrix) 2(NTSC Matrix) 3(User)	suports only 0(Normal) 1(EBU Matrix) 2(NTSC Matrix)
Soft Skin	OSE:32:[Data] QSE:32	4 0 1 2 3	HD Off Low Mid High												supports only 0(Off),1(Low),3(High)	supports only 0 (0ff), 1 (Low), 3 (ligh)	supports only 0 (Off),1(Low),3(ligh)	Н		supports only 0 (Off), 1 (Low), 3 (igh)	supports only 0 (Off), 1 (Low), 3 (High)
DRS	OSE:33:[Data] QSE:33	0 1 2 3	Off Low Mid High UE20/HE20/UE4 Off On	0			0	0	0	0	0	0	0		supports only 0(Off),1(Low),3(High)	supports only 0 (Off), 1 (Low), 3 (igh)	supports only 0 (Off),1(Low),3(ligh)	Н	0	supports only 0(Off),1(Low),3(igh)	supports only 0 (Off), 1 (Low), 3 (H igh)
HDMI Video Sampling	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 2 (YPbPr (422)) 4 (YPbPr (420))	UE80 supports only 2 (YPbPr (422)) 4 (YPbPr (420)) UE50, UE40, UE30			supports only 2 (YPbPr (422)) 4 (YPbPr (420))		UE150 supports only 2 (YPbPr (422)) 4 (YPbPr (420)) HE145 supports							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 0 1	Push Auto Disable Enable	O [Zoom Mode] -Opt Zoom OSE:70:0 OSD:B3:0	0	O [Zoom Mode] -Opt Zoom OSE:70:0 OSD:B3:0	don't support	O [Zoom Mode] -Opt Zoom OSE:70:0 OSD:B3:0	O [Zoom Mode] -Opt Zoom OSE:70:0 OSD:B3:0	O [Zoom Mode] -Opt Zoom OSE:70:0 OSD:B3:0	 O	only O [Zoom Mode] -Opt Zoom OSE:70:0 OSD:B3:0	0		0	0	0	0	0	0	0
Digital Zoom	OSE:70:[Data] QSE:70			-i Zoom		-i Zoom	-i Zoom	-i Zoom 0SE:70:0 0SD:B3:1 -D Zoom 0SE:70:1 0SD:B3:0	-i Zoom	-i Zoom 0SE:70:0 0SD:B3:1 -D Zoom 0SE:70:1 0SD:B3:0		-i Zoom 0SE:70:0 0SD:B3:1 -D Zoom 0SE:70:1 0SD:B3:0									
Preset Scope	OSE:71:[Data] QSE:71	0 1 2 0 1 2	Mode A Mode B Mode C Off Normal Cinema	Supports only 0 (HD) 2 (FILMLIKE1)		0	0	O 	0	Supports only 0 (HD) 2 (FILMLIKE1)		0	Supports only 0 (HD) 2 (FILMLIKE1)		0	0	0	supports only O(HD) 1(SD) 2(FILMLIKE1)	0	0	0
Gamma Mode	OSE:72:[Data] QSE:72	0 1 2 3 4 5 6 7	UE150A, UE100, UE150, HE145, HR140, HE130 HD SD FILMLIKE1 FILMLIKE2 FILMLIKE3 FILM REC VIDEO REC HLG	3 (FILMLIKE2) 4 (FILMLIKE3) 5 (FILM REC) 6 (VIDEO REC)						3 (FILMLIKE2) 4 (FILMLIKE3)			3 (FILMLIKE2) 4 (FILMLIKE3)					3 (FILMLIKEI) 4 (FILMLIKE3)			
Back Light Compensation	OSE:73:[Data] QSE:73	0	HLG Off On				0	0			0				0	0	0			0	0
Auto F.Mix Max Gair		00 01 02 03	(0ff) 6dB 12dB 18dB				0	0	0	0					0	0	0			0	0
OSD Off With Tally	OSE:75: [Data] QSE:75	0 1 0100	0ff 0n *1.00	O supports only		supports only	O supports only	O supports only	Supports only	Supports only	0	O supports only	O supports only		O supports only	O supports only	O supports only	O supports only	O supports only	O supports only	O supports only
Digital Zoom Magnification	OSE:76:[Data] QSE:76	9999	*99. 99	0100 (x1. 00) - 1000 (x10. 00)		0100 (x1. 00) - 1000 (x10. 00)	0100 (x1. 00) -	0100 (x1. 00) - 0400 (x4. 00)	0100 (x1. 00) - 1000 (x10. 00)	0100 (x1. 00) - 1000 (x10. 00)		0100 (x1. 00) - 1000 (x10. 00)	0100 (x1. 00) - 1000 (x10. 00)		0100 (x1. 00) - 1200 (x12. 00)	0100 (*1. 00) - 1200 (*12. 00)	0100 (x1. 00) - 1600 (x16. 00)	0100 (x1. 00) - 1000 (x10. 00)	0100 (x1. 00) - 1000 (x10. 00)	0100 (x1. 00) - 1000 (x10. 00)	0100 (x1. 00) - 1000 (x10. 00)
Frequency	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),	supports only 0 (59. 94Hz), 1 (50. 00Hz), 2 (24. 98Hz)	0	supports only 0(59.94Hz), 1(50.00Hz),	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), 2 (24. 98Hz), 3 (23. 98Hz)	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)
Max 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) 03(x3) 04(x4)	supports only 02 (x2) - 10 (x10)	supports only 02(x2) - 10(x10)		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)		

ITEM	Command Control / Response /	Data	Data Contents Control and				UE80/UE50/UE40/UE														
A 1 L III	Confirmation	00h	Response to contol OSD Mix Off	UE150A supports only	UB50/UB10	UE160 UE160 supports	30 UE80 supports	UE20/HE20	UR100 supports only	UE100 supports only	UE4	UE150/HE145 UE150 supports	HR140 supports only	UB300 supports only	UE70series	HE75series	HE70series	HE130 supports only	HE120 supports only	HE60	HE50
		01h 02h	SDI On HDMI On	00(OSD Mix Off) 01(3G SDI 1 On)		only 00(OSD Mix Off)	only 00(OSD Mix Off)		00(OSD Mix Off) 01(3G SDI On)	00(0SD Mix Off) 01(3G SDI On)		only 00(OSD Mix Off)	00(OSD Mix Off) 01(SDI On)	00(OSD Mix Off) 01(SDI On)				00 (OSD Mix Off) 01 (SDI On)	00(0SD Mix Off) 01(SDI On)		1
		04h 08h	Analog On Video On	02 (HDMI On) 10 (IP/NDI HX On)		01 (SDI On) 02 (HDMI On)	01 (3G SDI On) 02 (HDMI On)		10 (NDI HX On) 20 (12G SDI On)	02 (HDMI On) 10 (NDI HX On)		01 (SDI On) 02 (HDMI On)	10 (IP 0n)	10 (IP 0n)				02 (HDMI On) 08 (Video On)	02 (HDMI On) 04 (Analog On)		1
		10h 20h 40h	IP/NDI HX On 12G SDI 1/12G SDI/Optical On 12G SDI 2/MONI/3G SDI/PM On	20 (12G SDI/OPTICAL On) 40 (3G SDI 1 On)		10 (IP/NDI HX On) 20 (12G SDI On) 40 (3G SDI/PM On)	10 (NDI HX On) 80 (NDI On)		80 (NDI On)	20 (12G SDI On) 80 (NDI On)		10 (IP On) 20 (12G SDI/OPTICAL On)						10 (IP 0n)	08 (Video On)		1
OSD Mix	OSE:7B:[Data] QSE:7B	80h	NDI On *bit0:SDI, bit1:HDMI,	80 (NDI On) On)		40 (30 301/1 # 011)	UE50 supports					40 (MONI On)									1
/Char	USE : /B		bit2:Analog, bit3:Video, bit4: IP, bit5:12G SDI/Optical, bit6:				00(OSD Mix Off) 01(3G SDI On)					HE145 supports only									1
			MONI, bit7:NDI				02 (HDMI On) 10 (NDI HX On)					00 (OSD Mix Off) 01 (SDI On) 02 (HDMI On)									1
							UE40, UE30 supports only					10 (IP On)									1
							00 (OSD Mix Off) 02 (HDMI On)														<u> </u>
Preset Digital Extender Enable	OSE:7C:[Data] QSE:7C	0 1	Off On	0		0	0		0	0		0	0					0			
Preset Zoom Mode	OSE:7D:[Data] QSE:7D	0 1 00h	MODE A MODE B	O 	 	O 01h(1) - 08h(8)	0		O 	O		O 	0	[In case HD	 					-	
Darla Furancia	OSG:30:[Data]	- 04h	- 4			0111(1) 0011(0)								format] 00h(0) - 1Fh(31)							1
Peak Frequency	QSG:30	- 1Fh	- 31											[In case 4K format]							1
	OSG:32:[Data]	00h	00											00h (0) - 04h (4) O							
V Detail Level	QSG:32	- 3Fh	63																		<u> </u>
	096 · 25 · [Do+o]	00h - 04h	0 -											[In case HD format] OOh(0) - 1Fh(31)							
V Detail Frequency	QSG:35	0411 - 1Fh	- 31											[In case 4K format]							1
		418h	-1000	support only	support only		support only	support only	support only	support only		support only		00h (0) - 04h (4)							<u> </u>
R Gain	OSG:39:[Data] QSG:39	– 800h	0	support only 738h(-200) -	support only 738h(-200)		_	support only 7E2h(-30)	support only 738h (-200)	support only 738h(-200)		738h (-200) -									
	QSG : 39	EE8h	1000	8C8h (200)	8C8h (200)		8C8h (200)	81Eh (30)	8C8h (200)	8C8h (200)		8C8h (200)									1
	000.04.50c±-1	418h	-1000 -	support only 738h(-200)	support only 738h(-200)		support only 738h(-200)	support only 7E2h(-30)	support only 738h(-200)	support only 738h(-200)		support only 738h(-200)		0					 		
B Gain	OSG:3A:[Data] QSG:3A	800h - BE8h	0 _ 1000	– 8C8h (200)	- 8C8h (200)		- 8C8h (200)	- 81Eh (30)	- 8C8h (200)	- 8C8h (200)		- 8C8h (200)									1
Level Dependent SW	OSG:3E:[Data]	0	0ff			0			<u> </u>					0							
		1 00h	0n 0	supports only		0			supports only	supports only 00h(0) - 05h(5)		supports only		0	<u> </u>						
Knee Aperture Leve	QSG:3F	_ 27h	39	00h (0) - 05h (5)					00h(0) - 05h(5)	00h (0) - 05h (5)		00h (0) - 05h (5)									
Detail +Clip	OSG:40:[Data] QSG:40	00h - 25i	0 -			0								0							
	OSG:41:[Data]	3Fh 00h	0	 	<u> </u>	0								0	<u> </u>						
Detail -Clip	QSG:41	- 3Fh	- 63																		
Memory Select	OSG:42:[Data] QSG:42	0 1	A B											0							
	404 · 42	000h	0	 										0							<u> </u>
H Position	OSG:44:[Data] QSG:44	_ 190h	- 100.00% (0.25% step)																		1
		000h	(U. 25% Step)											0							
V Position	OSG:45:[Data]	_ 190h	100.00%																		1
	QSG:45		(0.25% step)																		<u> </u>
		0	A B											0							
Zebra Effect Memor	OSG:47:[Data] y OSG:47	2 3 4	C A+B A+C																		1
		5 6	B+C A+B+C																		1
		0	A			0								0							
Skin Tone Effect	OSG:48:[Data]	2 3	В С А +В																		1
Memory	QSG:48	4 5	A+C B+C																		1
		6	A+B+C																		
Skin Tone Crisp	OSG:49:[Data]	41h - 80h	-63 - 0																	- 	
okili tolle ol tap	QSG:49	_ BFh	+63																		1
	000 11	1Dh -	-99 -											0			 				
Master Pedestal	OSG:4A:[Data] QSG:4A	80h 	0 -																		1
		E3h 4E0h	99 -800		support only	0								0							
R Pedestal	OSG:4C:[Data] QSG:4C	_ 800h	_ 0		support only 738h(-200)																1
	GOU · TO	- B20h	800		8C8h (200)																
	OSG:4D:[Data]	4E0h _ 800b	-800 - 0	 	support only 738h(-200)	O														 	
G Pedestal	QSG:4D:[Data]	800h - B20h	- 800		8C8h (200)																
		4E0h	-800		support only	0								0							<u></u>
B Pedestal	OSG:4E:[Data] QSG:4E	_ 800h			738h (-200) -																1
	₩OU · HL	– B20h	800		8C8h (200)																
Skin Tone Q Phase	OSG:4F:[Data] QSG:4F	000h - 167b	0			0								0							
	0SG:59:[Data]	167h 0	359 Off			0	<u> </u>							0							
Shutter SW	QSG:59	1	0n																		

	Command		Data Contents																		
ITEM	Control / Response / Confirmation	Data	Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
		0 1	Shutter Sync		0	0				-	_			0						-	_
Shutter Mode	OSG:5A:[Data] QSG:5A	<u>UB50, UB10</u> 0	UB50, UB10 STEP																		
	OSG:5D:[Data]	<u> </u>	SYNCHRO **											.w.							
Shutter Speed	QSG:5D	0	HD											0							
	OSG:86:[Data]	1 2	FILMLIKE1 FILMLIKE2																		
Gamma Mode	OSG:86:[Data] QSG:86	3 4 5	FILMLIKE2 FILMLIKE3 FILM REC VIDEO REC																		
	OSG:93:[Data]	0	Off			0					_			0			-				
Chroma Level SW	QSG:93	1 1Ch	0n -100								_			0			-	-			
Master Flare	OSG:96:[Data] QSG:96	– 80h	0																		
	Q5G:96	– E4h	100																		
Auto Knee Response	OSG:97:[Data]	1 -	1 -	0		0			0 0		-	0		0							_
		0	8 Off								_			0							
Matrix	OSG:AO:[Data] QSG:AO	1	0n								_			0							
Color Correct Tab	le QSG:A4	0 1 00h	B -31								_			0							
Matrix (R_G) M	OSG:A5:N:[Data] OSG:A5:[N P]:[Data]	- 1Fh	- 0											-							
	QSG:A5:N	_ 3Eh	+31																		
	056 · 45 · D · [Do+o]	00h -	-31 -								-			0							_
Matrix (R-G)_P	OSG:A5:P:[Data] OSG:A5:[N P]:[Data] QSG:A5:P	1Fh - -	0 -																		
		3Eh 00h	+31								_			0				-		_	
Matrix (R-R) N	OSG:A6:N:[Data] OSG:A6:[N P]:[Data]	_ 1Fh	0																		
	QSG:A6:N	– 3Eh	+31																		
	OSG: A6:P:[Data]	00h -	-31 -								_			0							_
Matrix (R-B)_P	OSG:A6:P:[Data] OSG:A6:[N P]:[Data] QSG:A6:P	1Fh -	0 -																		
		3Eh 00h	+31							-	-			0							
Matrix (G-R)_N	OSG:A7:N:[Data] OSG:A7:[N P]:[Data]	– 1Fh	0																		
	QSG: A7: N	- 3Eh	+31											_							
	0SG:A7:P:[Data]	00h - 1Fh	-31 - 0								-			0				-			_
Matrix (G-R)_P	OSG:A7:P:[Data] OSG:A7:[N P]:[Data] QSG:A7:P		+31																		
	000.40.40.50.4.3	00h _	-31 -							-	_			0			-	-		-	_
Matrix (G-B)_N	OSG:A8:N:[Data] OSG:A8:[N P]:[Data] QSG:A8:N	1Fh -	0 -																		
	god : Ao : N	3Eh 00h	+31											0							
Motrix (C. P.) D	OSG:A8:P:[Data] OSG:A8:[N P]:[Data]	- 1Fh	_ _ 0											O							
Matrix (u-b)_P	QSG:A8:P	_ 3Eh	+31																		
	<u> </u>	00h _	-31 -							-	-			0			-				_
Matrix (B-R)_N	OSG:A9:N:[Data] OSG:A9:[N P]:[Data] QSG:A9:N	1Fh -	0 -																		
	GOG - A9 - IN	3Eh	+31																		
Maturity (D. D.) D	OSG:A9:P:[Data]	00h - 1Fh	-31 - 0							-	_			O				-		-	_
Matrix (B-R)_P	OSG:A9:P:[Data] OSG:A9:[N P]:[Data] QSG:A9:P		+31																		
	OSG:AA:N:[Data]	00h -	-31 -								-			0						-	
Matrix (B-G)_N	OSG:AA:N:[Data] OSG:AA:[N P]:[Data] QSG:AA:N	1Fh -	0 -																		
		3Eh 00h	+31								_			0			-	-		-	
Matrix (B-G)_P	OSG:AA:P:[Data] OSG:AA:[N P]:[Data] QSG:AA:P	_ 1Fh																			
		_ 3Eh	+31																		
Skin Area SW	OSG:B0:[Data] QSG:B0	0 1	Off On							-				0							
Skin Area Table	OSG:B1:[Data] QSG:B1	0	A B											0						-	
	OSG:B2:[Data]	01h - -	-127 -											0							
Skin Area Hue	QSG:B2	80h - FFh	0 - +127																		
	+	01h	-127							- -	_			0			-	-		-	
Skin Area Tone	OSG:B3:[Data] QSG:B3	- 80h -	0 -																		
		FEh	+126			0				_				0						_	
DNR Level	OSG:B5:[Data] QSG:B5	і — 5	- 5								_			J				-			_
Haze Reduction	OSG:B6: [Data] QSG:B6	0 1	Off On							- -	_		0	0			-	-		_	
Haze Reduction	OSG:B7:[Data] QSG:B7	1 -	1 -							- -	_		0	0			-	-		- -	
Level	QSG:B7	3	3																		

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Genlock Input	OSG:CA:[Data] QSG:CA	0 1	Response to contol BNC DSUB											0			 				
	OSG:CB:[Data]	3h -	-5 -											0							
H Phase-Goarse	QSG:CB	ori – Dh	- +5																		
		1Ch -	-100 -											0							
H Phase-Fine	OSG:CC:[Data] QSG:CC	80h -	0 -																		
		E4h Oh	+100 0ff							-			*		*	*	* *	*	*	*	*
		in 2h 3h	1/50 1/60 1/100 (NSTC) 、1/120 (PAL)																		
		4h 5h	1/120 (NTSC) 、1/100 (PAL) 1/250																		
Shutter	OSH:[Data] OSH	7h 8h	1/500 1/1000 1/2000																		
	Ч оп	9h Ah Bh	1/4000 1/10000 Synchro-Scan																		
		Ch Dh	ELC(Auto ND) 1/24																		
		Eh Fh	1/25 1/30																		
		[Data1] 01	[Data1] Left Max. Speed	0		0			0	0 -		O (UE150) (HE145)		0							
		- 50 -	Stop																		
Crop H/V Position	OSI:15:[Data1]:[Data 2]	99	Right Max. Speed																		
Speed Control	2]	[Data2] 01 -	[Data2] Down Max. Speed -																		
		50	Stop																		
		99	UP Max. Speed	0		0				0 -		(UE150)		0							
Crop Out	OSI:16:[Data] QSI:16	2 3	G Mg									O (UE150) (HE145)									
Crop Adjust	OSI:17:[Data]	1 2	YI G	0		0			0	0 -		O (UE150) (HE145)		0						-	
	QSI:17	3 [Data1]	Mg [Data1]Zoom Position		0	 				-				0					-	-	
		555h _ FFFh	Wide - Tele																		
Request Zoom/Focus/Iris	QSI:18	[Data2] 555h	[Data2]Focus Position Near																		
Zoom/Focus/Iris Position	QSI:18 OSI:18:[Data1]:[Data 2]:[Data3]	– FFFh [Data3] 555h	- Far [Data3]Iris Position																		
		_	Close -																		
		FFFh [Data1]	Open [Data1]		 					-				0		 	-	-	-	-	
		0 1	System Version Cam Main Network																		
Software Version	QSI:19:[Data1] OSI:19:[Data1]:[Data	3 4	ROM Table Cam FPGA AVIO FPGA Option FPGA																		
	[2]	5 6 [Data2]	AVIO FPGA Option FPGA [Data2]																		
		(Ver. String)	(ex) 01.00-000-00.00																		
		0 1 2	Off YI G	0		0			0	0 -		O (UE150) (HE145)		supports only 1(YI) 2(G)				-		-	- -
Crop Marker	OSI:1A:[Data] QSI:1A	3 4	Mg YI+G											2 (G) 3 (Mg) 4 (YI+G) 5 (YI+Mg) 6 (G+Mg) 7 (YI+G+Mg)							
		5 6 7	YI+Mg G+Mg YI+G+Mg											6 (G+Mg) 7 (YI+G+Mg)							
	+ +	738h -	-50% -											0							
Crop H Position	OSI:1B:[Data] QSI:1B	800h -	0% -																		
		8C8h	+50% (0.25% step)																		
		738h - 800h	-50% - 0%											0							
Crop V Position	OSI:1C:[Data] QSI:1C	800h - 8C8h	0% - +50%																		
		00h	(0.25% step)											0							
Auto Iris Level	OSI:1D:[Data] QSI:1D	- 64h	100																		
Color Temperature Inc	OSI:1E:[Data]	1h - Ah	Inc 1 - Inc 10	0	0	0	0		0	0 -		0		supports only 1h(Inc 1)							
Color Temperature	OSI:1F:[Data]	1h -	Dec 1	0	0	0	0		0	0 -		0		supports only 1h(Dec 1)					-		
Dec	SST: II · [paca]	Ah [Data1]	Dec 10 [Data1]	[Data1] supports	[Data1] supports	[Data1] supports	[Data1] supports		[Data1] supports	[Data1] supports -		[Data1] supports					-		-	-	
	OSI:20:[Data1]:[Data	00000h - FFFFFh	0K -	only	lonly	only	on l y 007D0h (2000K)		only	only 007D0h(2000K)		only 007D0h (2000K)		supports only Confirmation Command							
Color Temperature	0S1.20.[Data1].[Data 2] QSI:20	[Data2] Oh	1048575K [Data2] Valid	[Data2] supports	02710h(10000K) [Data2] supports	03A98h(15000K) [Data2] supports	- 03A98h(15000K) [Data2] supports		[Data2] supports			03A98h(15000K) [Data2] supports									
		1h 2h	Valid Under Over	only	only 0(valid)	only 0 (valid)	only 0(valid)		only	only O(valid)		only 0 (valid)									
Intelligent	OSI:21:[Data] QSI:21	0	Off On										0				-				
Intelligent Mode	OSI:22:[Data] QSI:22	2 0 1	Lock AE AE+ATW							-			0				-			-	
J 340	W51 - ZZ	I	I AE+AIW	<u> </u>	l							L				L					

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Intelligent ND Filter	OSI:23:[Data] QSI:23	0 1 2	Through 1/8 1/64 Auto										0								
Intelligent	OSI:24:[Data]	0 1	Normal Sports										0								
AGC Mode	QSI:24	<u>2</u> 0	SN Norma I	0		0	0		0 0) -		0	0						-		
ATW Speed	OSI:25:[Data] QSI:25	1 2 1	Slow Fast 1										0						-		
ATW Width	OSI:26:[Data] QSI:26	2 3 4 5	2 3 4 5																		
Super Gain	OSI:28:[Data] QSI:28	0 1	Off On	0			0		0 0	-		0	0								
3G SDI 3G SDI Out	QSI:28 QSI:29:[Data] QSI:29	0 1 [AK-UB300]	Level A Level B [AK-UB300]	0		O	O (UE80, UE50) (UE40, UE30)		0 0			0	0								
Option Device Typ	e QSI:2A OSI:2A:[Data]	0 1 2 3	no option 4K default 12G option TICO option																		
DC Out	OSI:2B:[Data] QSI:2B OSI:2C:[Data]	0	Off On	 									0					-	-		
HDR SW (MAIN)	00.1.00	0	0ff 0p	0		0				-				0					-		
Colormetry	0SI:2D:[Data] QSI:2D	00h 01h	no effect BT. 709											0					-		
HDR SW (SDI1)	OSI:2E:[Data]	0	0ff 0n							-				0					-		
HDR SW (LAN)	OSI:2F:[Data] QSI:2F	0	Off On							-				0							
		0	Normal High Sens.	0		0				-		0		0							
Shooting Mode	OSI:30:[Data] QSI:30	<u>UE160</u> 0 1	<u>UE160</u> Normal Low Light																		
HDR SW (SDI2)	OSI:31:[Data] QSI:31	0 1	Off On							- -				0				-	-		
Crop SDI2/3G SDI Out	QSI:31 OSI:32:[Data] QSI:32 OSI:33:[Data]	0 1	Full Crop Full	O		0			0) -		○ (UE150) (HE145) ○ (UE150) (HE145)		0				-			
Crop IP Out	OSI:33:[Data] QSI:33	0	Full Crop 0. 1500			0			0) -		O (UE150) (HE145)		0				-		-	
		05DCh	_						-	-				O				-	-		
Master Gamma	QSI:34 QSI:34:[Data]	1194h - 1D4Ch	0. 4500 - 0. 7500																		
		35h _	-75			0				-			 	0					-		
R Gamma	OSI:35:[Data] QSI:35	_ 80h	0																		
	401.00	CBh	+75																		
		35h -	-75 -			0				-				0							
B Gamma	OSI:36:[Data] QSI:36	80h - -	0 -																		
Master Gamma Inc	OSI:37:[Data]	CBh	+75											0					-		
Master Gamma Dec HLG Mode (HDR Paint)	OSI:38: [Data] OSI:39: [Data]	1 0	Dec Fix			 C								0							
(HDR Paint) SDR Convert Mode	QSI:39 OSI:3A:[Data]	1 0	Var Fix			0						 		0							
(HDR Paint) HLG Type Select (HDR Paint)	QSI:3A OSI:3B:[Data]	1 0	Var Normal											0							
(HDR Paint) Black Gamma SW	QSI:3B OSI:3C:[Data] QSI:3C	1 0	Stretch Off			\cap								0							
(HDR Paint)	QSI:3C	1 60h	0n -32			0								0							
Master Black Gamm	a [051:30:[Data]	- 80h	- 0			O															
Master Black Gamm (HDR Paint)	QSI:3D	– A0h	- +32																		
		60h	-32			0								0							
R Black Gamma	OSI:3E:[Data]	- 80h	- 0			-															
(HDR Paint)	OSI:3E:[Data] QSI:3E	– A0h	+32																		
	+ +	60h	-32			0				-				0			-	-	-		
B Black Gamma	OSI:3F:[Data] QSI:3F	– 80h	0																		
(HDR Paint)	QSI:3F	_ A 0h	+32																		
Knee SW	OSI:40:[Data]	0	Off	0		0			-	-		0		0					-		
(HDR Paint)	QSI:40	1 1Ch	0n 55.00%	suppurt only		suppurt only			-			suppurt only 1Ch(55%) -		suppurt only					-		
		_ 30h	60.00%	1Ch (55%) - D0 (100%)		30h (60%) - D0 (100%)						D0 (100%)		suppurt only 30h(60%) - D0(100%)							
Knee Point	OSI:41:[Data] QSI:41	- 80h -	80. 00%	(1step=1%)								(1step=1%)									
Knee Point (HDR Paint)	QSI:41	_ D0h _	100. 00%																		
		F4h	109.00% (1step=0.25%)																		
Knoo Slana	001 · 42 · [Da+a]	00h	0	supports only		0				-		supports only		0					-		
Knee Slope (HDR Paint)	OSI:42:[Data] QSI:42	_ C7h	- 199	00h - 64h								00h - 64h									
		74h -	-12 -			supports only 74h(-12)-7Bh(-5),				-				supports only 74h(-12), 77h(-							
SDR Convert Gain (HDR Paint)	OSI:43:[Data] QSI:43	80h	0			80h (0)								9), 7Ah (-6), 7Dh (-3), 80h (0)							
SDR Convert Clip (HDR Paint)	OSI:44:[Data] QSI:44	0 1 2	Low Mid High							-				0					-		
/		۷	IIIgII									<u> </u>	<u> </u>		<u> </u>	<u> </u>					

	Command		Data Contents	<u> </u>																	
ITEM	Control / Response / Confirmation	Data	Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Error Information	QSI:46	00000000h 00000001h 00000002h 00000004h 00000008h 00000010h	No Error Fan Error High Temperature Lens Error Pan/Tilt Error Sensor Error		supports only Oh(No Error) 1h(Fan Error) 2h(High Temperature)	0	0		0	0		0									
	US1:46:[Data]	200001011	‰bit0:Fan Error, bit1:High Temperature, bit2:Lens Error, bit3:Pan∕Tilt Error, bit4:Sensor Error																		
		0 1 2	Slow Normal Fast							U							-				_
Auto Iris Speed	0SJ:01:[Data] QSJ:01	<u>UE160</u> 0 1 2	<u>UE160</u> 1 2 3																		
		0 1 2	Normal1 Normal2 Center	0		0	0		0	0		0									-
		<u>UE150A,UE150</u> 0 1 2 3	<u>UE150A,UE150</u> Normal1 Normal2 Center User																		
Auto Iris Window	OSJ:02:[Data] QSJ:02	<u>UE160</u> 1 2 3 4 5	<u>UE160</u> 1 2 3 4 5																		
		<u>UE80,UE50,UE40</u> 0 1 2 4	<u>UE80,UE50,UE40</u> Normal1 Normal2 Center Full																		
Shutter Mode	OSJ:03:[Data] QSJ:03	0h 1h 2h 3h	Off Step Synchro ELC	О		O	0	supports only 0(Off) 1(Step) 2(Synchro)	0	0	supports only 0(Off) 1(Step)	0									_
Shutter Step Inc	0SJ:04:[Data]	01h - 64h	1 - 100	0	0	0	0	0	0	0	0	0									-
Shutter Step Dec	0SJ:05:[Data]	01h - 64h	1 — 100	0	0	0	0	0	0	0	0	0									_
		0001h -	1/1 -	supports only 0018h(1/24)	supports only 0002h(1/2)	supports only 0030h(1/48)	supports only 0018h(1/24)	0	supports only 0018h(1/24)	supports only 0018h(1/24)	0	supports only 0018h(1/24)						-			_
Shutter Step Value	OSJ:06:[Data] QSJ:06	2710 h - 3E80h	1/10000 - 1/16000	2710h (1/10000)	3E80h (1/16000)	07D0h (1/2000)	2710h (1/10000)		2710h (1/10000)	2710h (1/10000)		2710h (1/10000)									
Shutter Synchro Inc	0SJ:07:[Data]	01h - 64h	100		0			0		0		0									
Shutter Synchro Dec		01h - 64h 00000h	1 — 100 0.0 [Hz]	supports only 000F0h(24.0Hz)	supports only 000F0h(24.0Hz)	supports only 000F0h (24. 0Hz)	supports only 000F0h (24. 0Hz)	supports only 001F4h(50.0Hz)	supports only 000F0h(24.0Hz)	supports only 000F0h(24.0Hz)		supports only 000F0h(24.0Hz)									_
Shutter Synchro Val	ue OSJ:09:[Data] QSJ:09	_ 186A0h	10000.0[Hz]	119940 (7200. OHz)	l-	119940 (7200. OHz)	-	019C8h (660. OHz)	-	119940 (7200. OHz)		119940 (7200. 0Hz)									
Chroma Phase	OSJ:OB:[Data] QSJ:OB	61h - 80h - 9Fh	-31 - 0 - +31	0			0		0	0		0									-
AWB Gain Offset	OSJ:OC:[Data] QSJ:OC	0	Off On	0		0	0		0	0		0									_
ATW Target R	OSJ:OD:[Data] QSJ:OD	76h - 80h - 8Ah	-10 - 0 - +10	0		0	0		0	0		0									_
ATW Target B	OSJ:0E:[Data] QSJ:0E	76h - 80h - 8Ah	-10 - 0 - +10	0		0	0		0	0		0							-		-
Master Pedestal	OSJ:OF:[Data] QSJ:OF	738h - 800h - 8C8h	-200 - 0 - +200		supports only 7F1h(-15) - 80Fh(15)	0		supports only 7F6h(-10) - 80Ah(10)	0	0		0							-		-
G Pedestal	OSJ:10:[Data] QSJ:10	032h - 096h - 0FAh	-100 - 0 - +100	Ο					0	0		0									-
Pedestal Offset	OSJ:11:[Data] QSJ:11	0	Off On	0		0			0	0		0						-			
Detail Coring	OSJ:12:[Data] QSJ:12	00h - 3Ch	0 - 60	0			0		0	0		0									-
Level Depend.	OSJ:13:[Data] QSJ:13	79h - 80h - 87h	-7 - 0 - 7	O					O	U		O						- -			_
Down Convert Detail	OSJ:14:[Data] QSJ:14	0 1	Off On	0		0						O (UE150) (HE145)									-

ITEM	Command Control / Response /	Data	Data Contents Control and				UE80/UE50/UE40/UE					1									
	Confirmation	61h	Response to contol	UE150A supports only	UB50/UB10	UE160	30	UE20/HE20	UR100	UE100	UE4	UE150/HE145 O (UE150)	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Down Convert Master	OSJ:15:[Data]	- 80h	0	81h(1) - 83h(3)								O (UE150) (HE145)									
Detail	QSJ:15	– 9Fh	+31																		
Down Convert Detail	OSJ:16:[Data]	00h	0	supports only 00h(0) - 07h(7)								O (UE150) (HE145)									
Coring	QSJ:16	- 3Ch	60	00n(0) - 07n(7)																	
Down Convert V Deta	SILOS I:17: [Da+a]	79h -	-7 -			supports only 00h(00) - BFh(+63)						supports only 79h(-7) - 87h(+7) (UE150) (HE145)									
Level	QSJ:17	80h - BFh	0 - +63			(UE160)						(UE150) (HE145)									
		7Eh	-2	supports only								O (UE150)									
Down Convert Detail Frequency	OSJ:18:[Data]	– 80h	0	81h(1) - 83h(3)								(HE145)									
rrequency	450.10	- 82h	+2																		
		79h -	-7 -									○ (UE150) (HE145)									
Down Convert Level Depend.	OSJ:19:[Data] QSJ:19	80h -	0 -																		
		87h 00h	+7									O (UE150)									
Down Convert Knee	00 1:1A:[Data]	01h 02h	1 2									O (UE150) (HE145)									
Ape Level	QSJ:1A	03h 04h	3 4																		
		05h	5																		
Black Gamma Range	OSJ:1B:[Data] QSJ:1B	1 2 3	2 2																		
	1001.0	41h	-63	0	supports only		0		0	0		0				 					
Color Correction	OSJ:1C:[Data] QSJ:1C	– 80h	0		49h (-55) -																
YI_YI_G Saturation	QSJ.10	– BFh	63		B7h (+55)																
		41h -	-63 -	0	supports only 49h(-55)		0		0	0		0									
Color Correction YI_YI_G Phase	OSJ:1D:[Data] QSJ:1D	80h -	0 -		– B7h (+55)																
		BFh 01h	63 720/59.94p	UE150A doesn't		UE160 doesn't			UE100 doesn't	UE100 doesn't		UE150 doesn't									
		02h 04h	720/50p 1080/59.94i	support 07h 1080/29.97PsF		support 07h 1080/29.97PsF			supports 1Fh 2160/60p	supports 1Fh 2160/60p		supports 1Fh 2160/60p									
		05h 07h	1080/50i 1080/29.97PsF	08h 1080/25PsF 0Ah 1080/23.98PsF		08h 1080/25PsF 0Ah 1080/23.98PsF			20h 1080/60p	20h 1080/60p		20h 1080/60p									
		08h 0Ah	1080/25PsF 1080/23.98PsF	16h 1080/23.98p (over 59.94i/p)		16h 1080/23.98p (over 59.94i/p)						(HE145)									
		10h 11h	1080/59.94p 1080/50p																		
12G SDI/Optical Out	OSJ:1E:[Data]	14h 15h 16h	1080/29.97p 1080/25p 1080/23.98p (over 59.94i/p)																		
Output Format	QSJ:1E	17h 18h	2160/29.97p 2160/25p																		
		19h 1Ah	2160/59.94p 2160/50p																		
		1Bh 1Fh	2160/23.98p 2160/60p																		
		20h 21h	1080/60p 2160/24p																		
		22h 23h	1080/24p 1080/23.98p																		
12G SDI/Optical Out	08 1:1E:[Da+a]	0h	SDR HDR (2020)	0		0						O (UE150) (HE145)									
HDR Output Select	QSJ:1F	2h	HDR (709)																		
12G SDI/Optical	OSJ:20:[Data]	0h 1h	Level A Level B	0		0			0	0		O (UE150) (HE145)									
3G SDI Out	QSJ:20	01h	720/59.94p	UE150A doesn't		UE160 doesn't	UE80 and UE50		UE100 doesn't	UE100 doesn't		UE150 and HE145	 	<u> </u>		 					
		02h 04h	720/50p 1080/59.94i	support 07h 1080/29.97PsF		support 07h	don't support 20h 1080/60p		support 20h 1080/60p	support 20h 1080/60p		don't support 20h 1080/60p									
		05h 07h	1080/50i 1080/29.97PsF	08h 1080/25PsF 0Ah 1080/23.98PsF		1080/29.97PsF08h 1080/25PsF 0Ah 1080/23.98PsF	(UE40, UE30)														
3G SDI Out	NS.1:21:[Nata]	08h 0Ah 10h	1080/25PsF 1080/23.98PsF 1080/59.94p	16h 1080/23.98p (over 59.94i/p)		16h 1080/23.98p (over 59.94i/p)															
Output Format	OSJ:21:[Data] QSJ:21	11h 14h	1080/50p 1080/29.97p			(over 39.94i/ p)															
		15h 16h	1080/25p 1080/23.98p (over 59.94i/p)																		
		20h 22h	1080/60p 1080/24p																		
		23h	1080/23.98p																		
3G SDI Out HDR Output Select	0SJ:22:[Data]	0 1 2	SDR HDR(2020) HDR(709)	U								O									
nivi varhar 96160[400 - 22	2 01h	720/59.94p	UE150A doesn't		UE160 doesn't						UE150 doesn't									
		02h 04h	720/50p 1080/59.94i	support 07h 1080/29.97PsF		support 07h 1080/29.97PsF						supports 20h 1080/60p									
		05h 07h	1080/50i 1080/29.97PsF	08h 1080/25PsF 0Ah 1080/23.98PsF		08h 1080/25PsF 0Ah 1080/23.98PsF						(HE145)									
MONI Out Output Format	OSJ:23:[Data] QSJ:23	08h 0Ah	1080/25PsF 1080/23.98PsF	16h 1080/23.98p (over 59.94i/p)		16h 1080/23.98p (over 59.94i/p)															
υστραί Γυζιίαϊ	40U · Z0	14h 15h	1080/29.97p 1080/25p																		
		16h 20h 22h	1080/23.98p (over 59.94i/p) 1080/60p																		
		22h 23h	1080/24p 1080/23.98p									0 (115150)									
MONI Out HDR Output Select	OSJ:24:[Data] QSJ:24	0 1 2	SDR HDR(2020) HDR(709)									O (UE150) (HE145)									
545945 001601	L1	۷	HPK(109)]						

	OI / PAGE COC.	Do+o	Data Contents	+			HEOD /HEED /HEAD /HE														
GOT	ol / Response / Confirmation	Data 01h	Control and Response to contol 720/59.94p	UE150A UE150A doesn't	UB50/UB10	UETOU	UE80/UE50/UE40/UE 30 UE80 doesn't -	UE20/HE20	UR100	UE100 UE100 doesn't	UE4	UE150/HE145 UE150 doesn't	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
		02h 04h	720/50p 1080/59.94i	support 16h 1080/23.98p		support 16h 1080/23.98p	supports 1Fh 2160/60p			supports 1Fh 2160/60p		supports 1Fh 2160/60p									
		05h 10h	1080/50i 1080/59.94p	(over 59.94i/p) 1Fh 2160/60p		(over 59.94i/p)	20h 1080/60p 26h 1080/119.88p			20h 1080/60p 26h 1080/119.88p		20h 1080/60p 26h 1080/119.88p		ļ i			1				
		11h 14h 15h	1080/29.97p	20h 1080/60p 26h 1080/119.88p 27h 1080/100p			27h 1080/100p UE50 does't support		1	27h 1080/100p		27h 1080/100p HE145 doesn't		ļ			1				
		16h 17h	1080/23.98p(over 59.94i/p) 2160/29.97p	2/11 1000/100β			19h 2160/59.94p 1Ah 2160/50p		1			support 17h 2160/29.97p									
HDMI Out OSJ:25:	5:[Data]	18h 19h	2160/25p 2160/59.94p				1Fh 2160/60p 20h 1080/60p		1			18h 2160/25p 19h 2160/59.94p									
Output Format QSJ:25	5:[Data] 5	1Ah 1Bh 1Fh	2160/50p 2160/23.98p 2160/60p				26h 1080/119.88p 27h 1080/100p		1			1Ah 2160/50p 1Bh 2160/23.98p 1Fh 2160/60p		Į i			1				
		20h 21h	1080/60p 1080/24p				UE40,UE30 does't support					20h 1080/60p 21h 2160/24p					1				
		22h 23h	1080/24p 1080/23.98p				16h 1080/23.98p(over 59.94i/p)		1			26h 1080/119.88p 27h 1080/100p		ļ i			1				
		26h 27h	1080/119.88p 1080/100p				19h 2160/59.94p 1Ah 2160/50p 1Fh 2160/60p		1					ļ i			1				
		İ					20h 1080/60p 26h 1080/119.88p		1					ļ i			!				
HDMI Out OSJ:26:	6:[Data]	0 1	SDR HDR(2020)	0		0	27h 1080/100p					0							-		
HDR Output Select QSJ:26	6	0	HDR(709)		0	0			0	0											
		1 2	Low Normal		-	- 			ļ ⁻					ļ i							
001.07	7:[Data]	<u>UE160</u> 0	<u>UE160</u> Off On			ļ			1												
Color Bar Tone USJ:27	7. [vata] 7	UB50, UB10	<u>UB50. UB10</u>											ļ i							
		0 1 2	Off Low Normal						1												
		3 [Data1]	High [Data1]H Position			0			0	0											
		00h -	0% _						1					ļ i							
Toutch AF 0SJ:28:	8:[Data1]:[Data	64h [Data2] 00h	100% [Data2]V Position 0%						1												
		00n - 64h	0% - 100%						1					ļ i			1				
Preset Speed Unit 0SJ:29: QSJ:29	9:[Data] o	0 1	Speed Table Time	0		0	-		0	0		0									
0SJ:2A:	A:[Data]	0 1	Off On	0		0			0	0		O (UE150) (HE145)							-	-	
Preset Thumbnail 0SJ:2B:	B:[Data]	0	Off On	0		0	-	_	0	0		0		<u></u>			<u></u>				
Update Q\$J:2B Preset Name 0\$J:20: Q\$J:20:	C:[Data]	0	Reset Hold	0		0	-		0	0		0							-		
usu . 20	v	0	UE150A,UE160, UE100 Normal	0		0	0 (2	0	0		0	 						-	-	
		1 2	Fast1 Fast2						1												
		<u></u>	<u>UE150</u> Normal						1					ļ i			1				
P/T Speed Mode 0SJ: 2D: QSJ: 2D	D:[Data] D	1 2	Normal Fast Quick						1												
		<u>UE20. HE20</u>	<u>UE20,HE20</u>						1					ļ i			!				
		0 1	Slow Fast						1					ļ i			!				
UG 1-3E-	F:[Nata]	0	Off Crop(1080)	0		0			0	0		O (UE150) (HE145)	 	<u></u>			<u></u>			-	
UHD Crop USJ: 2E	E:[Data] E	2	Grop(720)																		
		000h - 700h	0 -	supports only 000h(0)		O (1step=2pix)			0	0		UE150 supports only					!				
0SJ:2F:	F:[Data]	780h - A00h	1920 - 2560	- AB6h (2742) (1step=2pix)					1			000h (0) - A00h (2560)									
Crop H Position (YI) 0SJ:2F: QSJ:2F	F	C00	3072						1			A00h(2560) (1step=2pix)		ļ i			1				
		Í							1			HE145 doesn't support		ļ i			!				
		000h -	0 -	supports only 000h(0)		0			0	0		UE150 supports only 000h(0)	 						-	-	
Crop V Position (YI) 0SJ:30: QSJ:30	0:[Data]	438h - 540b	1080	- 607h (1543)					1			I- I		ļ			1				
Grop v Position (YI) QSJ:30	0	5A0h - 6C0	1440 - 1728			ļ i			1			5A0h (1440) HE145 doesn't		ļ i			1				
												HE145 doesn't support									
		000h - 780h	0 - 1920	supports only 000h(0)	 	O (1step=2pix)	-		10	0		UE150 supports only 000h(0)		<u> </u>			1		<u>-</u>	[-	
0SJ:31:	1:[Data]	/80h _ A00h	1920 - 2560	- AB6h (2742) (1step=2pix)		ļ i			1			I- I		ļ i			1				
Crop H Position (G) 0SJ:31: QSJ:31	1	C00	3072						1			A00h(2560) (1step=2pix)		ļ i			1				
						ļ i			1			HE145 doesn't support		ļ i			!				
		000h -	_	supports only 000h(0)		0			0	0		UE150 supports only 000h(0)	1						-		
Crop V Position (G) 0SJ:32:	2:[Data]	438h - 5A0h	1080	- 607h (1543)					1			000h (0) - 5A0h (1440)									
QSJ:32	2	5A0h - 6C0	1440 - 1728			<u> </u>			1			HE145 doesn't		ļ i			1				
		İ					[1			support	1	1	1	1	1				

ITEM	Command Control / Response / Confirmation	Data	Data Contents Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
	oom mation	000h _	0 -	supports only 000h(0)		O (1step=2pix)	3U		0	0		UE150 supports									
	001-22-50-4-3	780h -	1920 -	- AB6h(2742) (1step=2pix)								000h (0) -									
Crop H Position (Mg)	QSJ:33:[Data]	A00h - C00	2560 - 3072	(ISTep=2pIX)								A00h(2560) (1step=2pix)									
		000	3072									HE145 doesn't support									
		000h	0	supports only		0			0	0		UE150 supports									
		- 438h -	1080	000h (0) - 607h (1543)								on l y 000h (0)									
Crop V Position (Mg)	OSJ:34:[Data] QSJ:34	5A0h -	1440	00711(1543)								6C0h (1728)									
		6C0	1728									HE145 doesn't support									
		[Data1]	[Data1]	[Data2]		[Data2]	[Data2]		[Data2]	[Data2] use only follow		[Data2]									
	OSJ:35:[Data1]:[Data	00 - 99	-	use only follow charactors A-Z, a-z, 1-9,		use only follow charactors A-Z, a-z, 1-9,	use only follow charactors A-Z, a-z, 1-9,		use only follow charactors A-Z, a-z, 1-9,	charactors A-Z, a-z, 1-9,		use only follow charactors A-Z, a-z, 1-9, _, Half-Width									
Save Preset Name	2] QSJ:35:[Data1]	[Data2] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	[Data2] Preset Name (Fixed 15 Charactors)	_, Half-Width		_, Half-Width	_, Half-Width		_, Half-Width Space	_, Half-Width		_, Half-Width Space									
		[Data] 00	[Data] Preset001	0		0	0		0	0		0									
Delete Preset Name (Single)	OSJ:36:[Data]	- 99	- Preset100																		
Delete Preset Name	0SJ:37	_		0	 	0	0		0	0		0			 	 					
(All)	000.07	[Data]	[Data] Preset001	0		0	0		0	0		0									
Update Preset Thumbnail	OSJ:39:[Data]	00 - 99	Presetuui – Preset100																		
	+	[Data]	[Data]	0		0	0		0	0		0			 	 					
Delete Preset Thumbnail (Single)	OSJ:3A:[Data]	00 -	Preset001 -																		
Delete Preset		99	Preset100	0			0		0	0		0									
Thumbnail (All)	OSJ:3B	[Data1]	[Data1]	0		0	0		0	0		0									
		00h 01h	Preset 001-009 Preset 010-018																		
		02h 03h	Preset 019-027 Preset 028-036																		
		04h 05h 06h	Preset 037-045 Preset 046-054 Preset 055-063																		
Preset Name / Prese Thumbnail	t QSJ:3C:[Data1] OSJ:3C:[Data1]:[Data	07h 08h	Preset 064-072																		
Counter	[2]	09h 0 A h	Preset 073-081 Preset 082-090 Preset 091-099																		
		0Bh [Data2]	Preset 100 [Data2]																		
		00000000h - FFFFFFFFh	00000000h FFFFFFFFh																		
		000h	0	0	 		0		0			0									
Zoom Scale	QSJ:3D OSJ:3D:[Data]	- 3E7h	999																		
Operation Lock	OSJ:3E:[Data]	xxxxxxx	Any Information (40 Charactors)	0		0	0		0	0		0									
Release Operation Lock	OSJ:3F	-		0		0	0		0	0		0									
	00 1.40	[Data1] 0	[Data1] Unlock	0		0	0		0	0		0									
Operation Lock Statu	QSJ:40 s OSJ:40:[Data1]:[Data	1 [Data2]	Lock [Data2] Any Information (40 Charactors)																		
	21	xxxxxxx	Any Information (40 Gharactors)																		
		0 1	Off R-Tally	0		0	supports only 0(0ff),1(R-			supports only 0(0ff),1(R-		supports only 0(0ff),1(R-									
External Output 1	OSJ:41:[Data] QSJ:41	3	G−Tally Y−Tally				Tally), 2 (G-Tally) (UE80, UE50)			Tally), 2 (G-Tally)		Tally), 2 (G-Tally)									
							(UE40, UE30)														
		0	Off R-Tally	0		0	supports only 0(Off),1(R- Tally),2(G-Tally)			supports only 0(Off),1(R- Tally),2(G-Tally)		supports only 0(Off),1(R- Tally),2(G-Tally)									
External Output 2	OSJ:42:[Data] QSJ:42	2 3	G-Tally Y-Tally				Tally), 2 (G-Tally) (UE80, UE50)			iaily), 2 (G-lally)		iaiiy), 2 (ti−lally)									
				<u> </u>			(UE40, UE30)														
Devis 0 D '''	0SJ:45:[Data]	0	None Standby	0		0	supports only 1 (Standby) 2 (Home)		0	supports only 1 (Standby) 2 (Home) 3 (Preset)		0									
Power On Position	OSJ:45:[Data] QSJ:45	2 3	Home Preset				2 (Home) 3 (Preset)			2 (Home) 3 (Preset)											
Power On Preset	OSJ:46:[Data] QSJ:46	00	Preset001	0		0	0		0	0		0]]		<u> </u>		
Number	₩ SJ∶46	99 1h	Preset100	0		0			0	0		0									
AWB Color Temperature Inc	OSJ:48:[Data]	- Ah	10	Ī																	
	+ +	1h	1	0		0			0	0		0									
AWB Color Temperature Dec	OSJ:49:[Data]	– Ah	10																		
	 	[Data1] 007D0h	[Data1] 2000K	0		supports only O Valid	O(Query Only)		0	0		0									
AWB Color	OSJ:4A:[Data1]:[Data	– 03A98h	_ 15000K																		
Temperature / Color Temp ACH	2] QSJ:4A	[Data2] 0	[Data2] Valid																		
		1 2	Under Over																		
	 	670h -	-400 -	0		0			0	0		0									
AWB R Gain	OSJ:4B:[Data] QSJ:4B	800h -	0 -																		
		990h	400																		

	Command		Data Contents	1																	
ITEM	Control / Response / Confirmation	Data	Control and	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
	CONTINUALION	670h	Response to contol -400	0	 	0	30	, 	0 () 		0				 				-	_
	OSJ:4C:[Data]	- 800h	-																		
AWB B Gain	QSJ:4C	_	-																		
		990h	400																		
		670h	-400	0		0			0 ()		0									_
AWB G Axis	OSJ:4D:[Data]	- 800h	0																		
AWD G AXIS	QSJ:4D	– 990h	400																		
		00011																			
		0 1	0ff x1. 4		0	0	0	0]		0								-	_
		2	x2. 0																		
Digital Extender	OSJ:4E:[Data] QSJ:4E	<u>UB50,UB10</u>	<u>UB50, UB10</u> Off																		
		2	x2. 0																		
		3	x4. 0																		
Adaptive Matrix	OSJ:4F:[Data]	0	Off	0			0		0 0)		0							-		_
Tracking Data Output	QSJ:4F t OSJ:54:[Data]	0	On Off	0		0	O (UE80)		0 0)	_	0									_
Serial Out Tracking Data Output	QSJ:54	1	On Off				O (UE80)		0												
IP Out	QSJ:55	1	0n	0		0	——		0			0									
Color Setting	QSJ:55 OSJ:56:[Data] QSJ:56	0 1	Normal V-Log	0		0			-			O (UE150) (HE145)								-	_
12G SDI/Ontical Out	· IOS.1:57: Data	0	V-Log V-709	0		0						(UF150)								-	_
V-Log Output Select	0SJ:58:[Data]	0	V-Log	0		0						(HE145) O (UE150) (HE145)									_
V-Log Output Select MONI Out	0SJ:59:[Data]	0	V-709 V-Log	0		0						O (UE150) (HE145)									_
MONI Out V-Log Output Select HDMI Out V-Log Output Select	: QSJ:59 OSJ:5A:[Data]	1 n	V-709 V-Log	0		0	 					(HE145)			 					_	
V-Log Output Select	QSJ:5A	1	V-709									O (UE150) (HE145)			1						
Preset Iris	USJ:5B QSJ:5B	υ 1	Off On	0		0			<u> </u>	·		0									-
Camera Title	OSJ:5B:[Data] QSJ:5B OSJ:5C:[Data] QSJ:5C	xxxxxxx	Camera Title (Fixed 40 Charactors : ASCII CODE)	0		0	0		0) <u> </u>		0						 	-		-
		[Data1] 01	Camera Title (Fixed 40 Charactors : ASCII CODE) [Data1] Left Max. Speed	0		0			0	- -		O (UE150) (HE145)								-	-
		UI -	-									(HE143)									
		50 -	Stop -																		
Crop H/V Position	OSJ:5D:[Data1]:[Data	99	Right Max. Speed																		
Crop H/V Position Speed Control (YI)	2]	[Data2]	[Data2]																		
		01 -	Down Max. Speed -																		
		50 -	Stop -																		
		99	UP Max. Speed																		
		[Data1]	[Data1]	0		0			0 0)	_	O (UE150) (HE145)									_
		01 -	Left Max. Speed -									(HE145)									
		50 -	Stop -																		
Crop H/V Position		99	Right Max. Speed																		
Crop H/V Position Speed Control (G)	OSJ:5E:[Data1]:[Data 2]	[Data2]	[Data2]																		
(G)		01	Down Max. Speed																		
		50	Stop -																		
		99	UP Max. Speed																		
		[Data1]	[Data1]	0		0			0 0)		O (UE150)									_
		01	Left Max. Speed									O (UE150) (HE145)									
		50	Stop																		
0 110/10 :::		99	- Right Max. Speed																		
Crop H/V Position Speed Control (Mg)	0SJ:5F:[Data1]:[Data 2]	[Data2]	[Data2]																		
(Mg)		01	Down Max. Speed																		
		- 50	Stop																		
		– 99	UP Max. Speed																		
		[Data1]		[Data1, 3, 5]								UE150									_
		000h - C00h	0 - 3072	Н						-		[Data1, 3, 5]									
		[Data2] 000h - 6C0h	0 - 1728	Position(YI,G,Mg) supports only								H Position(YI,G,Mg)									
		[Data3] 000h - C00h	[Data3] H Position (G) 0 - 3072	000h (0) -								supports only 000h(0)									
		[Data4] 000h - 6C0h	[Data4] V Position (G) 0 - 1728	AB6h (2742)								A00 (2560)									
	QSJ:60:[Data1]:[Data	[Data5]	[Data5] H Position (Mg)	[Data2, 4, 6]																	
Get Crop H/V Position (YI, G, Mg)	on 2]:[Data3]:[Data4]:[Data5]:[Data6]	000h – C00h [Data6]	0 - 3072 [Data6] V Position (Mg)	V Position(YI,G,Mg)								[Data2, 4, 6] V									
	0SJ:60	000h - 6C0h	0 - 1728	supports only 000h(0)								Position(YI, G, Mg)									
				-								supports only 000h(0)									
				607h (1543)								5A0 (1440)									
												HE145 doesn't									
												support									
Slow Shutter	0SJ:80:[Data]	0	0ff	 				0		<u> </u> c)				 					_	-
Mirror	QSJ:80 OSJ:81:[Data]	0	On Off							lc)									_	_
m () i Ul	QSJ:81	<u>1</u>	On English		 			0)	 			 	 				_	_
Language	OSJ:82:[Data] QSJ:82	1	Japanese					 			-										
I DC	OSJ:84:[Data]	0	Chinese Off							C)										_
Manual Iris Close	QSJ:84	<u> </u>	On Off				0		0 0	 											
Limit	QSJ:90 OSJ:91:[Data]	1	On Off																	_	
Crop AF	QSJ:91	1	0n											_	_						
Crop Zoom	OSJ:92:[Data] QSJ:92 OSJ:93:[Data]	U 1	Off On	0		<u> </u>			U) 											
Crop NDI Out	OSJ:93:[Data] QSJ:93	0	Full Crop			0			0)											-
Crop	0SJ:94:[Data]	0	Full			0	 		0 0	- -					 					-	-
IP Out2	QSJ:94	1	Crop	1	L	<u> </u>	ļ	<u> </u>	ļ.			ļ	<u> </u>	1	1	<u> </u>	<u> </u>				

ITEM	Command Control / Response /	Data	Data Contents Control and	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Crop Zoom Ratio	Confirmation OSJ:98:[Data]	02EE0h -	Response to contol	supports only 02EE0h(120.00)		0	30		0) -											
(YI)	QSJ:98	0C350h	500. 00%	- 088B8h (350. 00)																	
Crop Zoom Ratio (G)	OSJ:99:[Data] QSJ:99	02EE0h - 0C350h	120. 00% - 500. 00%	supports only 02EE0h(120.00) -		0			0	-									-	-	
Crop Zoom Ratio	OSJ:9A:[Data]	02EE0h	120.00%	088B8h (350.00) supports only 02EE0h (120.00)		0			0 () -			 								
(Mg)	QSJ:9A	0C350h	500.00%	- 088B8h (350. 00)																	
		[Data1] 02EEOh -	[Data1] Zoom Ratio (YI) 120.00% —	[Data1, 2, 3] supports only 02EEOh(120.00)		0			0	-								-	-	-	
	 OSJ:9B:[Data1]:[Data	0C350h [Data2] 02EE0h	500.00% [Data2] Zoom Ratio (G) 120.00%	088B8h (350. 00)																	
Crop Zoom Ratio (YI/G/Mg)	2]:[Data3] QSJ:9B	– 0C350h	- 500. 00%																		
		[Data3] 02EEOh -	[Data3] Zoom Ratio (Mg) 120.00% —																		
	1	0C350h 01	500.00% Wide Max. Speed	0		0			0												
0 7 0 1	00 1:00: [D 1]	_ 49	- Wide Min. Speed																		
Crop Zoom Ratio Speed Control	QSJ:9C:[Data]	50 51 -	Stop Tele Min. Speed -																		
		99	Tele Max. Speed Wide Max. Speed	0		0			0 () -								-			
Crop Zoom Ratio	08 1:00: [Da+a]	- 49 50	Wide Min. Speed Stop																		
Crop Zoom Ratio Speed Control (YI)	OSJ:9D:[Data] QSJ:9D	51 -	Tele Min. Speed -																		
	1	99 01	Tele Max. Speed Wide Max. Speed	0		0			0 () -								-	-		
Crop Zoom Ratio Speed Control	05.1:0F:[Da+a]	- 49 50	- Wide Min. Speed Stop																		
(G)	OSJ:9E:[Data] QSJ:9E	51 -	Tele Min. Speed - Tele Max. Speed																		
	1	99	Wide Max. Speed	0		0			0 () -								-	-		
Crop Zoom Ratio Speed Control (Mg)	OSJ:9F:[Data] QSJ:9F	- 49 50	Wide Min. Speed Stop																		
(Mg)	QSJ:9F	51 - 99	Tele Min. Speed - Tele Max. Speed																		
	+	[Data1]	[Data1] (YI)	0		0			0 () -		O (UE150) (HE145)									
		01 - 50 - 99 [Data2]	Left Max. Speed - Stop - Right Max. Speed [Data2] (YI)									(HE145)									
		01 - 50 - 99 [Data3]	Down Max. Speed - Stop - UP Max. Speed [Data3] (G)																		
Crop H/V Position	OSJ:AO:[Data1]:[Data 2]:[Data3]:[Data4]:[01 - 50 - 99 [Data4]	Left Max. Speed - Stop - Right Max. Speed [Data4] (G)																		
(YI/G/Mg)	2]	01 - 50 - 99	Down Max. Speed - Stop - UP Max. Speed																		
		[Data5] 01 - 50 - 99	[Data5] (Mg) Left Max. Speed - Stop - Right Max. Speed																		
		[Data6] 01 - 50 - 99	[Data6] (Mg) Down Max. Speed - Stop - UP Max. Speed																		
	+	[Data1]	[Data1] (YI)	0		0			0 () -		 									
		01 - 49	Wide Max. Speed - Wide Min. Speed																		
		50 51 -	Stop Tele Min. Speed -																		
		99 [Data2] 01	Tele Max. Speed [Data2] (G) Wide Max. Speed																		
Crop Zoom Ratio	OSJ:A1:[Data1]:[Data	- 49	- Wide Min. Speed																		
Crop Zoom Ratio Speed Control (YI/G/Mg)	OSJ:A1:[Data1]:[Data 2]:[Data3]	50 51 -	Stop Tele Min. Speed -																		
		99 [Data3] 01	Tele Max. Speed [Data3] (Mg) Wide Max. Speed																		
		- 49 50	- Wide Min. Speed Stop																		
		51 -	Tele Min. Speed -																		
P/T Acceleration	OSJ:A2:[Data]	0	Tele Max. Speed Manual	0		0	O (UE80)		0 () -		 					-	-	-		
P/T Rise S-Curve	00 I. A0 : FD . I. 7	1 00h -	Auto 0 -	0		0	O (UE80)		0 () -									-	-	
P/T Fall S-Curve	OSJ:A4: [Data]	1Eh 00h -	30 0 -	0		0	(UE50, UE40, UE30) O (UE80)		0) -										-	
P/T Rise	QSJ:A4 OSJ:A5:[Data]	1Eh 01h	30	0		0	(UE50, UE40, UE30) O (UE80)		0 () -							-		-	-	
Acceleration P/T Fall	QSJ:A5	- FFh 01h	255 1	0		0	(UE50, UE40, UE30) O (UE80)		0 () -							-		-	-	
Acceleratoin	OSJ:A6:[Data] QSJ:A6 OSJ:A7:[Data]	– FFh 0		0		0	(UE50, UE40, UE30)		0 0) -							-	-	-	-	
Privacy Mode Preset Acceleration	QSJ:A7	1 0 1	On Manua I Auto	0		0	O (UE80)		0 () -		0					-		-	-	
Preset Rise S-Curve	OSJ:A9:[Data] QSJ:A9	00h -	0 -	0		0	O (UE80)		0	-		 					-	-	-	- -	
Preset Fall S-Curve	OSJ:AA:[Data]	1Eh 00h -	0 -	0		0	(UE50, UE40, UE30) O (UE80) 		0) -											
raii S-Curve	QSJ:AA	1Eh	30				(UE50, UE40, UE30)					L]	1		L					

	Command		Data Contents																		
ITEM	Control / Response / Confirmation	Data	Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Preset Rise Acceleration (OSJ:AB:[Data] QSJ:AB	01h - FFh	1 - 255	0		0	O (UE80) (UE50, UE40, UE30)		0	0 -		supports only 01h(1)-06h(6)						-		-	
Preset (OSJ:AC:[Data]	01h -	1 -	0		0	O (UE80)		0	0 -										_	
Fall Acceleration (Preset (JSJ:AC DSJ:AD:[Data]	FFh 01h	255 0.1s	0		0	(UE50, UE40, UE30) O (UE80)		0	0 -		<u> </u>								-	
Rise Ramp Time (QSJ:AD	- 64h 01h	10. 0s 0. 1s				(UE50, UE40, UE30) (UE80)					<u> </u>								_	
Preset Fall Ramp Time	OSJ:AE:[Data] QSJ:AE	- 64h	0. 1s - 10. 0s				(UE50, UE40, UE30)														
	OSJ:AF:[Data]	000h -	_	supports only 000h(0)		O (1step=2pix)			0	0 -											
Crop H Position	QSJ: AF	C00h	3072	- AB6h(2742) (1step=2pix)																	
Crop V Position	OSJ:B0:[Data]	000h -	_	supports only 000h(0)		0			0	0 -											
Grop V Position	QSJ:B0	6C0h	1728	- 607h (1543)																	
	OSJ:B1:[Data] QSJ:B1	02EE0h - 0C350h	120. 00% - 500. 00%	supports only 02EE0h(120.00)		0			0	0 -								-		-	
		0	0ff	088B8h (350. 00)		0				-		0								-	
Auto Iris Close Limit	OSJ:CO:[Data] QSJ:CO	1 2	F8 F7																		
Tracking Data Output (OSJ:C1:[Data]	0 1	F5. 6 Off On	0		0	O (UE80)		0	0 -		0								-	
Invert Pan/Tilt Axis	QSJ:C1		<u></u>				(UE50, UE40, UE30)														
		[Data1] 01 - 50 - 99	[Data1]YL H Crop Position Left Max. speed - Stop	0		0			0	0 -								-	-	-	
		[Data2] 01 - 50 - 99	- Right Max. speed [Data2]YL V Crop Position Down Max. speed - Stop																		
		[Data3] 01 - 50 - 99	- UP Max. speed [Data3]G H Crop Position																		
			Left Max. speed - Stop - Right Max. speed																		
		[Data4] 01 - 50 - 99	[Data4]G V Crop Position Down Max. speed - Stop - UP Max. speed																		
Crop Position/Crop (OSJ:C2:[Data1]:[Data 21:[Data3]:[Data4]:[[Data5] 01 - 50 - 99	[Data5]MG H Crop Position Left Max. speed - Stop																		
Crop Position/Crop C Zoom Position Speed 2 Control (YL/G/MG)	Data5]:[Data6]:[Data 7]:[Data8]:[Data9]	[Data6] 01 - 50 - 99	- Right Max. speed [Data6]MG V Crop Position Down Max. speed - Stop																		
		[Data7]	- UP Max. speed [Data7] YL Crop Zoom Position																		
		01 - 50 - 99	Wide Max. speed - Stop - Tele Max. speed																		
		[Data8] 01 - 50 - 99	[Data8] G Crop Zoom Position Wide Max. speed - Stop - Tele Max. speed																		
		[Data9] 01 - 50 - 99	[Data9] MG Crop Zoom Position Wide Max. speed - Stop																		
			- Tele Max. speed																		
		[Data1] 000h - C00h	[Data1] H Position (YL) 0 - 3072	[Data1, 3, 5] supports only		0			0	0 -											
		[Data2] 000h - 6C0h	[Data2] V Position (YL) 0 - 1728	000h (0) -																	
		[Data3] 000h - C00h	[Data3] H Position (G) 0 - 3072	AB6h(2742) (1step=2pix)																	
Request		[Data4] 000h - 6C0h [Data5]	[Data4] V Position (G) 0 - 1728 [Data5] H Position (MG)	[Data2, 4, 6] supports only																	
Request Crop Position/ Crop Zoom Position	OSJ:C3:[Data] QSJ:C3	000h - C00h [Data6]	0 - 3072 [Data6] V Position (MG)	000h (0) -																	
		000h - 6C0h [Data7] 02EE0h - 0C350h	0 - 1728 [Data7] Zoom Ratio (YL) 120.00% - 500.00%	607h (1543) [Data7, 8, 9]																	
		[Data8] 02EE0h - 0C350h	[Data8] Zoom Ratio (G) 120.00% - 500.00%	supports only 02EE0h(120.00)																	
		[Data9] 02EE0h - 0C350h	[Data9] Zoom Ratio (MG) 120.00% - 500.00%	088B8h (350. 00)																	
Spotlight COMP.	DSJ:D0:[Data]	0	Off On				0											-		-	
Spotlight COMP.	OSJ:D1:[Data] QSJ:D1	0	Off On				0														
ND Filter Status	OSJ:D2:[Data] QSJ:D2	0	Through 1/4 ND 1/16 ND				O (UE80)		0											_	
		2 3 0	1/16 ND 1/64 ND Off				(UE50, UE40, UE30) (UE80)													_	
IICP Auto Activo	OSJ:D3:[Data] QSJ:D3 OSJ:D4:[Data]	0	0n 0ff				O (UE80)			-								-		-	
	QSJ:D4 OSJ:D5:[Data] QSJ:D5	0	0n 0ff 0n	0		0	0		0											-	
	רח י חסוג	I [Data1] 1	Un [Data1]Scene(From) Scene1				0			e:31 -								-		_	
		2 3	Scene1 Scene2 Scene3 Full Auto																		
Scene Copy	OSJ:D6:[Data1][Data2	4 [Data2]	Full Auto [Data2]Scene (To)																		
		1 2	Scene 1 Scene 2 Scene 3																		
		3 4	Scene3 Full Auto																		
		00 01	HD Normal			supports only 00 (HD), 01 (Nomal), 02 (Cinemal), 03 (Ci	0		0									-			
Gamma Mode	OSJ:D7:[Data] QSJ:D7	02 03	Cinema1 Cinema2			02 (Cinema1), 03 (Cinema2)															
		04	Still Like																		
AF Sensitivity	OSJ:D8:[Data] QSJ:D8	0 1 2	Normal Stable Stable2			supports only 0:Normal 1:Stable	supports only 0:Normal 1:Stable		supports only 0:Normal 1:Stable	U -								-		-	
		0	Unlimited	0		O	O			0 -		0			 			-		-	
Tally LED Limit G	วรป:DA:[Data] วรป:DA	0 1	Limited Unlimited Limited	0		0	0			0 -		0						-		-	
Tally LED Limit B	OSJ:DB:[Data]	0	Unlimited Limited				(UE80) O														
USB Auto Standby (OSJ:DC:[Data] QSJ:DC	0	Off On				(UE80) O														-

LTEM	Command	Data	Data Contents		T	T	UE00 (UE50 (UE 40 (UE						I								
	Control / Response / Confirmation OSJ:F3:[Data]	Data O	Control and Response to contol Off	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30 (UE80)	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Mode Tracking Data	QSJ:F3 OSJ:F4:[Data]	1 00h	0n 0x00	0		0	O (UE80)		0	0		0									
Camera ID	QSJ:F4	- FFh	OxFF 12G OUTPUT				O (UE50, UE40, UE30)														
SFP+ Mode	OSL:00:[Data] QSL:00	1 2	ST2110/NW IF ST2110 JPEG XS																		
V-LOG PAIRL SW	OSL:01:[Data] QSL:01	0 1	Off On			0															
damut	OSL:02:[Data] QSL:02 OSL:03:[Data]	0 1	Normal Wide_G2 Off	0		0															
Level dauge	QSL:03:[Data] QSL:03 QSL:04:[Data]	1 0	On Off			0															
Tally lad limit V	QSL:04 OSL:05:[Data]	0	On Unlimited	0		0															
	QSL:05 OSL:08:[Data] QSL:08	0 1	Limited BBS/TRI-LEVEL SYNC PTP			0															
	402.00	7Bh -	-5 -			0															
		80h - 85h	0 - 5																		
Sync Gen-Lock H Phase-Coarse	OSL:09:[Data]	0011	J																		
Priase-Goar se	QSL . 09																				
		1Ch	-100			0	 														
Sync Gen-Lock H Phase-Fine	OSL:OA:[Data] QSL:OA	_ 80h _	0																		
r nase=r ifie	પ્લ⊙L · UA	_ E4h	100																		
Bar ID Brightness	OSL:OB:[Data] QSL:OB	00h	0% _ 100%			0															
Bar ID ID1 Position V		64h 0 -	100% 0 -			0		<u></u>													
		5 0h	5 0h			0															
Bar ID ID1 Position H Bar ID ID1	QSL:0D QSL:0D:[Data]	- Fh xxxxxxxx	- Fh BAR ID																		
Bar ID ID2 Position	QSL:OE	(32 DATA in ASCII CODE)	BAR ID (FIXED 16 CHARACTORS) 0			0															
Bar ID ID2 Position V		- 5	- 5																		
Bar ID ID2 Position H		- Fh	on - Fh																		
	OSL:11:[Data] QSL:11	(32 DATA in ASCII CODE)	BAR ID (FIXED 16 CHARACTORS)			0															
Bar ID Offset V	OSL:12:[Data] QSL:12	00h - 59h	0 - 89			0															
Bar Id Offset H	OSL:13:[Data] OSL:13	00h -	0 -			0															
12G SDI Out/SFP+	OSL:14: [Data]	4Fh 0	79 Menu Only Status			0															
3G SDI Out1 Output Item	OSL:15:[Data] QSL:15	0	Menu Only Status Cam			0															
12G SDI Out/SFP+ Output Item 3G SDI Out1 Output Item 3G SDI Out2/PM Output Select 3G SDI Out2/PM Output Item 3G SDI Out2/PM Output Item 3G SDI Out2/PM 3G	OSL:17: [Data] QSL:17	0 1	Return			0															
Output Item 3G SDI Out2/PM 3G	QSL:18 QSL:1A:[Data]	1 0	Menu Only Status Level-A	0		0															
SDI Return ID	QSL:1A QSL:1A QSL:1B:[Data] QSL:1B	1 XXXXXXXXX	<u>Level-B</u> RETURN ID			0															
	Ø2F:1R	(10 DATA in ASCII CODE) [Data1] 0	(FIXED 5 CHARACTORS) [Data1] Input1			0			0												
Audio Input Setting	g OSL:1C:[Data]	1 [Data2]	[Data1] Input1 Input2 [Data2] Line Mic																		
Input Select	QSL:1C	0 1 2	Line Mic Mic+48V (Mic+Power)																		
		Z [Data1]	[Data1]			0															
Audio Input Setting Mic Gain	g OSL:1D:[Data] QSL:1D	0 1 [Data2]	Input1 Input2 [Data2]																		
mic valii	GOL·ID	0 1	60dB 40dB																		
Audio Output Setting Ch Select	OSL:1E:[Data] QSL:1E	0 1	Input1/Input2 Input1			0															
		2 01h 02h	Input2 720/59. 94p 720/50p			0															
		10h 11h	1080/59. 94p 1080/50p																		
		14h 15h 17h	1080/29.97p 1080/25p 2160/29.97p																		
NDI Format Select	OSL:21:[Data]	18h 19h	2160/25p 2160/59. 94p																		
	GOL · 2 I	1Ah 1Bh 1Fh	2160/50p 2160/23.98p																		
		20h 21h	2160/60p 1080/60p 2160/24p 1080/24p																		
		22h 23h	1080/24p 1080/23. 98p																		
IP(H. 264/H. 265) Output Item	OSL:23: [Data] QSL:23	0	Menu Only Status			0															
Sucput Itom		02h -	−6dB −		0	0															
		08h _ 14h	0dB - 12dB																		
Gain	OSL:25:[Data] QSL:25	14n <u>UB50, UB10</u>	12dB UB50, UB10																		
	49	02h -	−6dB −																		
		08h - 46h	0dB - 62dB																		
		TOII	VEMD	<u> </u>]														

; TC44	Command	D :	Data Contents				Lugae (versione)	т		,											
	Control / Response / Confirmation	Data	Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
	OSL:26:[Data] QSL:26 OSL:27:[Data]	0 1	0ff 0n 0ff		U	0		 	-	-	- 	-									
Frame Mix SW	QSL:27	0 1 06h	0n			0			-	-	-										
Frame Mix	OSL:28:[Data] QSL:28	0Ch 12h 18h	+6dB +12dB +18dB +24dB																		
Iris Peak Ratio	OSL:29:[Data] QSL:29	00h - 64h	0 - 100			O				_	- -	-									
ATW	OSL:2A:[Data] QSL:2A	0 1	0ff 0n			0															
White Balance Mode		0 1 2 3	AWB A AWB B PRESET 3200K PRESET 5600K VAR			0				_											
OHOOK1633 IID SII	OSL:2C:[Data] QSL:2C	0	Off On			0															
Shockless WB Speed	OSL:2D:[Data] QSL:2D	1 - -	1 -			O				_	-	-									
	OSL:2E:[Data] QSL:2E	0 1 [Data1] 007D0h	0ff 0n [Data1] 2000K		0	0															
Color Temp Bch	OSL:2F:[Data1]:[Data 2] QSL:2F	0075611 - 03A98h [Data2] 0	15000K 15000K [Data2] Valid																		
Color Temp Bch Inc	OSL:30:[Data]	1h - Ah	1 - 10			0															
Color Temp Bch Dec	OSL:31:[Data]	1h - Ah 670h	1 - 10 -400			0				-	-										
Color Temp R Gain Bch	OSL:32:[Data] QSL:32	- 800h - 990h	- 0 - 400																		
Color Temp B Gain Bch	OSL:33:[Data] QSL:33	670h 800h 990h	-400 - 0 - 400			0															
Color Temp G Axis Bch	OSL:34:[Data] QSL:34	670h - 800h - 990h	-400 - 0 - 400			0															
G Gain Rel Control Switch	OSL:35:[Data]	0	0ff			0	-		-		-										
Switch	QSL∶35	1 418h	0n -1000			0	-		-	-	-										
RGB Gain Preset R Gain	OSL:36:[Data] QSL:36	- 800h - BE8h	1000																		
RGB Gain Preset G Gain	OSL:37:[Data] QSL:37	418h 800h BE8h	-1000 - 0 - 1000			0															
RGB Gain Preset B Gain	OSL:38:[Data] QSL:38	418h 800h BE8h	-1000 - 0 - 1000			0															
RGB Gain R Gain Ach	OSL:39:[Data] QSL:39	418h - 800h - BE8h	-1000 - 0 - 1000			0															
RGB Gain G Gain Ach	OSL:3A:[Data] QSL:3A	418h - 800h - BE8h	-1000 - 0 - 1000			0															
RGB Gain B Gain Ach	OSL:3B:[Data] QSL:3B	418h - 800h - BE8h	-1000 - 0 - 1000			0			-		-										
RGB Gain R Gain Bch	OSL:3C:[Data] QSL:3C	418h - 800h - BE8h	-1000 - 0 - 1000			0															
RGB Gain G Gain Bch	OSL:3D:[Data] QSL:3D	418h - 800h - BE8h	-1000 - 0 - 1000			0															
RGB Gain B Gain Bch	OSL:3E:[Data] QSL:3E	418h 800h BE8h	-1000 - 0 - 1000			0															
RGB Gain Gain Offset Bch	OSL:3F:[Data] QSL:3F	0	Off			0	-		-		-										
Maatau Flava	OSL:40:[Data]	1 738h – 800h	0n -200 - 0			0				- -	-										
master Flare	QSL:40	8C8h	200																		

ITEM	Control / Response /	Data	· · · · · · · · · · · · · · · · · · ·				UE00 /UEE0 /UE40 /UE					1				1	1				
	Confirmation	738h	Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
R Flare	OSL:41:[Data]	- 800h	- 0																		
(Itale	QSL:41	- 8C8h	200																		
	201 - 40 - FD - 1 - 3	738h -	-200 -			0															
G Flare	OSL:42:[Data] QSL:42	800h - 8C8h	200																		
		738h	-200	 		0											-				
B Flare	OSL:43:[Data] QSL:43	800h	0 -																		
		8C8h	200																		
Initial Gamma	OSL:44:[Data] QSL:44	8h 9h A h	4. 0 4. 5 5. 0			О				-									-		
Kilee	OSL:45:[Data] QSL:45	0	Off On			0															
Knee Mode (OSL:46: [Data] QSL:46	0 1 71h	Manual Auto -15%			0											-	-			
R White Clip Level	OSL:47:[Data]	- 80h	- 0%																		
K WITTER OTTO LEVEL	QSL:47	_ 8Fh	_ 15%																		
		71h -	-15% -			0															
B White Clip Level (JSL:48:[Data] QSL:48	80h 8Fh	0% _ 15%																		
HI-Color (OSL:49:[Data] QSL:49	0	Off			0											-	-			
	QSL:49 OSL:4A:[Data] QSL:4A	1 01h -	0n 1 -			0												-			
			32 1			0											-	-			
	OSL:4B:[Data] QSL:4B	– 5 00h	5 00			0															
	OSL:4C:[Data] QSL:4C	06H - 0Fh	_ _ 15			O															
	OSL:4D:[Data] QSL:4D	0 1	0ff 0n			0															
	OSL:4E:[Data] QSL:4E	- 7	- 7																		
Down Convert Chroma (Level SW	OSL:4F:[Data] QSL:4F	0 1	0ff 0n			0															
Down Convert Chroma (Level	OSL:50:[Data]	1Ch - 80h	-100% - 0%																		
		_ 	40%																		
Down Convert H Detail Level	OSL:51:[Data] QSL:51	80h _ BFh	- 63																		
Down Convert Detail (Peak Frequency	OSL:52:[Data] QSL:52	07Ch - 173h	12. 4MHz - 37. 1MHz			0															
Down Convert V Detail Frequency		00h -	00 -			0															
Down Convert Detail (Crisp		1Fh 80h -	31 00			0															
		BFh 80h	63 00	 		0											-				
Down Convert Detail (Clip(+)		– BFh 80h	63																		
Down Convert Detail (Clip(-)	OSL:58:[Data] QSL:58	– BFh	- 63			O															
Down Convert Detail (Knee Aperture Level (OSL:5A:[Data] QSL:5A	00h - 27h	0 -			0				-								-			
Down Convert Detail (OSL:5B:[Data]	00h -	00 -			0											-	-			
Knee (Down Convert Detail (Level Dependent SW (QSL:5B OSL:5C:[Data] OSL:5C	0Fh 0 1	15 Off On			0												-			
Down Convert Detail (Level Dependent (OSL:5D:[Data] OSL:5D	00h -	00			0															
Down Convert Dark Detail SW	OSL:5E:[Data] OSI:5F	0Fh 0 1	15 Off On			0												-			
Down Convert Dark (OSL:5F:[Data] OSI:5F	0 -	0 -			0												-			
Down Convert Dark (Detail (Down Convert Skin (Tone Detail (Down Convert Skin (Tone Detail Zebra (OSL:60:[Data] QSL:60	7 0 1	7 Off On			0															
Down Convert Skin (Tone Detail Zebra (OSL:61:[Data] QSL:61	0	Off On			0															
		0 1 2	A B c			0											-	-			
Down Convert Skin Tone Detail Zebra Effect Memory	OSL:62:[Data] QSL:62	3 4	A+B A+C																		
2ssc monory		5 6	A+C B+C A+B+C																		
		0	A B			0											-	-			
Down Convert Skin (Tone Effect Memory (OSL:63:[Data] OSL:63	2 3 4	C A+B A+C																		
Tono Erroce monory		5 6	A+C B+C A+B+C																		
Down Convert Skin (Tone Crisp (DSL:64:[Data]	80h _	0			0											-				
Tone Crisp (Down Convert Skin ,	USL:64	88h 00h	8 0			0											-	-			
Down Convert Skin Tone Detail I Center	QSL:65	– FFh 00h	255 0			0															
Down Convert Skin (Tone Detail I Width(JSL:66:[Data] JSL:66	- FFh																			

ITEM	Command Control / Response /	Data	Data Contents				UE80/UE50/UE40/UE														
1 I LIW	Confirmation	00h	Control and Response to contol 0	UE150A	UB50/UB10	UE160	30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series -	HE70series	HE130	HE120	HE60	HE50
	001 : 07 : [0]	_ 7Fh	- 127																		ı
Down Convert Skin Tone Detail Q Width	QSL:67:[Data] QSL:67																				ı
		000h	0																		
Down Convert Skin Tone Detail Q Phase	OSL:68:[Data] QSL:68	- 167h	0 - 359			0				_						-					
Skin Tone Detail Memory Select	OSL:69:[Data] QSL:69	0 1 2	A B C			0				_						- -					
		0 1 2	A B			0				_						-					
Zebra Effect Memory	OSL:6A:[Data] QSL:6A	3 4	A+B A+C																		ı
		5 6	B+C A+B+C																		ı
Linear Matrix	OSL:6C:[Data] QSL:6C OSL:6E:[Data]	0 1	Off On A			0				_											
Color Correct Table	QSL:6E	1 00h	B -31			0				_											
Matrix(R-G)_P	OSL:6F:[Data] QSL:6F	_ 1Fh _	0																		· · · · · · · · · · · · · · · · · · ·
		3Eh 00h	+31 -31		 	0							 			-					
Matrix(R-B)_P	OSL:70:[Data] QSL:70	– 1Fh	0																		ļ
	∀ 0L · /U	- 3Eh	+31																		
Matriv(C.D) D	OSL:71:[Data]	00h - 1Fh	-31 - 0			O	-			_						- -					- !
Matrix(G-R)_P	QSL:71	3Eh	- +31																		
	001 : 70 : [0 - + -]	00h - 15h	-31 -			0				_						- -					<u></u> !
Matrix(G-B)_P	OSL:72:[Data] QSL:72	1Fh - 3Eh	0 - +31																		
		00h -	-31 -			0				_			 								
Matrix(B-R)_P	OSL:73:[Data] QSL:73	1Fh - 3Eh	0 - +31																		
		00h	-31	<u> </u>		0				_						-					
Matrix(B-G)_P	OSL:74:[Data] QSL:74	_ 1Fh _	0 -																		ļ
		3Eh 00h	+31			0				_			 								
	OSL:88:[Data] QSL:88	- 64h	100																		
HDR Paint SDR Convert Slope	OSL:89:[Data] QSL:89	00h - 7Fh	0 - 127			O				_											
HDR Paint SDR	OSL:8A:[Data]	1Ch - 80h	-100 - 0			0				_						- -					
HDR Paint SDR Convert Black Offset	QSL:8A	_ E4h	- +100																		
0. I. S.	OSL:8B:[Data] QSL:8B	0	Off On			0				-											
O.I.S. Mode	OSL:8C:[Data] QSL:8C	1 2 3	O.I.S (STABLE) O.I.S (PAN/TILT) HYBRID (STABLE)			O				_						-					!
		4	HYBRID (PAN/TILT) OFF			0				_											
WFM Mode	OSL:8D:[Data] QSL:8D	1 2	ON (Y) ON (Y/Pb/Pr)																		<u> </u>
WFM Position	OSL:8E:[Data] QSL:8E	1 2	BR BL							_						-					
	402.02	0	UL 0FF			0				_						-					
Scene File Load	OSL:8F:[Data] QSL:8F	1 - 8	Scene1 - Scene8																		
Sagna Fila Stara	091 : 00 : [Da+a]	1	Scene1		0	0				_						-					
Scene File Store	OSL.90. [Data]	- 8 [Data1]	Scene8 [Data1] Scene1			0	-			_											
Scene File File	OSL:91:[Data1]:[Data	1 - 8	_																		
Nama	2] QSL:91:[Data1]	[Data2] xxxxxxxx (30 DATA in ASCII CODE)	Scene8 [Data2] SCENE FILE NAME (FIXED 15 CHARACTORS)																		
Hoor File !	001 .00 . [D - 1]	1	User1	<u> </u>		0				_		<u> </u>	<u> </u>			-					
	OSL:92:[Data]	3 1	User3 User1			0	-			_						-					
User File Store	OSL:93:[Data]	- 3 [Data1]	_ <u>User3</u> [Data1] User1			0				_											
	OSL:94:[Data1]:[Data	1	_																		
User File File Name	2] QSL:94:[Data1]	[Data2] xxxxxxxx	User3 [Data2] SCENE FILE NAME (FIXED 15 CHARACTORS)																		
0 1 "	QSL:99	(30 DATA in ASCII CODE) VXX. XX-XXX-XXX. XX		<u></u>	 	0							<u></u>			-					
System Version White Shading	QSL:99 QSL:99:[Data] QSL:9B:[Data]	0	VXX. XX-XXX-XX. XX Ex) V01. 00-000-00. 00 Off	<u> </u>	 	0	-			_	 	 	 			-			 		
Correct	QSL:9B	1 1	<u>On</u>		<u> </u>	<u> </u>					I	I	I		ı l				I		

	Command		Data Contents																		
ITEM	Control / Response / Confirmation	Data	Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
White Shading W H	OSL:9C:[Data]	1Ch - 80h	-100 - 0			0													-		
Saw R	QSL:9C	– E4h	+100																		
		1Ch -	-100 -			0				-							-		-		
White Shading W H Saw G	OSL:9D:[Data] QSL:9D	80h -	0 -																		
		E4h 1Ch	+100 -100			0	 										-		-		
White Shading W H	OSL:9E:[Data]	– 80h	0																		
Saw B	QSL:9E	– E4h	+100																		
		1Ch _	-100 -			0															
White Shading W H Para R	OSL:9F:[Data] QSL:9F	80h – E4h	0 - +100																		
		1Ch	-100			0													-		
White Shading W H Para G	OSL:AO:[Data] QSL:AO	- 80h -	0																		
rara a	doE-710	E4h	+100																		
White Shading W H		1Ch - 80h	-100 - 0			0													<u></u>	-	
Para B	QSL:A1	– E4h	+100																		
		1Ch -	-100 -			0											-				
White Shading W V Saw R	OSL:A2:[Data] QSL:A2	80h -	0 -																		
		E4h 1Ch	+100 -100			0	 							 			-		-		
White Shading W V Saw G	OSL:A3:[Data]	– 80h	0																		
Saw G	USL: A3	– E4h	+100																		
W O W V	7	1Ch -	-100 -			0															
White Shading W V Saw B	QSL:A4:[Data]	80h <i>–</i> E4h	- +100																		
	+	1Ch	-100			0		 									 -				
White Shading W V Para R	OSL:A5:[Data] QSL:A5	- 80h -	0 -																		
		E4h	+100																		
White Shading W V	OSL:A6:[Data]	1Ch - 80h	-100 - 0			0				-									-		
Para G	QSL:A6	_ E4h	+100																		
		1Ch _	-100 -			0															
White Shading W V Para B	OSL:A7:[Data] QSL:A7	80h -	0 -																		
		E4h 01h	+100 720/59. 94p			0													-		
		02h 04h 05h	720/50p 1080/59. 94i																		
CT0110 Main Video	001 - AA - [Da+a]	10h 11h	720/59. 94p 720/50p 1080/59. 94i 1080/50i 1080/59. 94p 1080/50p 1080/29. 97p																		
ST2110 Main Video Tx Format	QSL:AA	14h 15h	1080/29. 97p 1080/25p																		
		20h 22h 23h	1080/25p 1080/25p 1080/60p 1080/24p 1080/23.98p DISABLE(query only)																		
	1	23h FFh 01h												 							
		02h 04h 05h	720/59. 94p 720/50p 1080/59. 94i 1080/50i 1080/59. 94p 1080/50p 1080/29. 97p 1080/25p																		
		05h 10h 11h	1080/50 i 1080/59. 94p 1080/50p																		
ST2110 Crop Video Tx Format	QSL:AC OSL:AC:[Data]	14h 15h	1080/29.97p 1080/25p																		
		20h 22h	1080/60p 1080/24p 1080/23.98p DISABLE(query only)																		
		23h FFh																			
		01h 02h 04h	720/59. 94p 720/50p 1080/59. 94i 1080/50i 1080/59. 94p 1080/50p 1080/50p 1080/29. 97p 1080/25p 1080/60p 1080/24p 1080/23. 98p DISABLE (query only)			0														- -	
		04h 05h 10h	1080/50 i 1080/59. 94p																		
ST2110 Monitor Video Tx Format	QSL:AD OSL:AD:[Data]	11h 14h	1080/50p 1080/29. 97p																		
		15h 20h 22h	1080/23p 1080/60p 1080/24p																		
		23h FFh	1080/23.98p DISABLE(query only)																		
Camera Number	OSL:AE:[Data] QSL:AE	01	1 -			0													-		
	GOT · VIT	99	99			I		l	ı İ	1						l	ı İ				

ITEM	Command Control / Response /	Data	Data Contents Control and	IIE1E0A	UDEO /UD10	UE1CO	UE80/UE50/UE40/UE	UEOO /UEOO	UR100	UF100	UEA	UE150/UE145	LID1 40	UP200	UF70:	UE7F	UF70	UF120	UE100	ПСО	HELO
	Confirmation	[Data1]	Response to contol [Data1]	UE150A	UB50/UB10	UE160	30	UE20/HE20	O (UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
		1Dh - 80h	-9.9° (Left Down) - 0.0°																		
		_ E3h	9.9° (Left Up)																		
		[Data2] 1Dh -	[Data2] -9.9° (Right Down)																		
		80h -	0. 0° -																		
Level Gauge Reques	st OSL:AF OSL:AF:[Data1]:[Data 2]:[Data3]:[Data4]	E3h [Data3]	9.9° (Right Up) [Data3]																		
	2]:[Data3]:[Data4]	1Dh - 80h	-9.9° (Front Down) - 0.0°																		
		_ E3h	9.9° (Front Up)																		
		[Data4] 1Dh -	[Data4] -9.9° (Back Down)																		
		80h -	0. 0° -																		
		E3h	9.9° (Back Up)																		
Chroma Level	OSL:B0:[Data]	1Ch - 80h	-100% - 0			O															
	QSL:B0	– A8h	- 40																		
Down Convert Skin Tone Detail Memory Select	OSL:B1:[Data] QSL:B1	0	A B			0															
Select		2 [Data1]R-X 701h-8FFh	[Data1]R-X -255~255			0															
		[Data2]R-Y 701h-8FFh	[Data2]R-Y -255∼255																		
		[Data3]G-X 701h-8FFh [Data4]G-Y	[Data3]G-X -255~255 [Data4]G-Y																		
		701h–8FFh [Data5]B–X 701h–8FFh	-255~255 [Data5]B-X																		
	QSL:B2 OSL:B2:[Data1]:[Data	[Data6]B-Y	[Data4]G-Y -255~255 [Data5]B-X -255~255 [Data6]B-Y -255~255 [Data7]CY-X																		
Request Matrix (R/G/B/CY/MG/YL)	2] [Data3] : [Data4] : [D ata5] : [Data6] : [Data7] : [Data8] : [Data9] : [D	701h-8FFh [Data7]CY-X 701h-8FFh	-255~255 [Data7]CY-X -255~255																		
	ata10]:[Data11]:[Dat a12]	[Data8]CY-Y 701h-8FFh	-255~255 [Data8] CY-Y -255~255 [Data9] MG-X -255~255																		
		[Data9]MG-X 701h-8FFh [Data10]MG-Y	[Data9]MG-X -255~255 [Data10]MG-Y																		
		701h-8FFh [Data11]YL-X	[Data10]MG-Y -255~255 [Data11]YL-X																		
		701h-8FFh [Data12]YL-Y	-255~255 [Data12]YL-Y -255~255																		
Status Indicator	OSL:B3:[Data]	701h–8FFh 0	-255~255 Off			0															
Return Select	OSL:B3:[Data] QSL:B3	1 04h	0n 1080/59. 94i			0										 					
		05h 10h 11h	1080/50 i 1080/59. 94p 1080/50p																		
ST2110 Ret Video Format	Rx QSL:B4 OSL:B4:[Data]	14h 15h	1080/29.97p 1080/25p																		
	[552 57 [55454]	20h 22h 23h	1080/60p 1080/24p 1080/23.98p																		
		FFh	DISABLE(query only)																		
D. I. S. S Mode	QSL:B5 OSL:B5:[Data]	0 1 0	0ff 0n 0ff	 0		O (query only)			O :												
Auto Tracking Mod		1 0	On Off	0			0														
Angle	QSL:B7 OSL:B7:[Data]	1 2	Full Body Upper Body																		
Target Marker	QSL:B8 QSL:B8:[Data]	1 0	Off On Not Tracking	0		0	0					 									
Tracking Status	QSL:BB OSL:BB:[Data]	1	Tracking Lost																		
Tracking Start/St	op OSL:BC:[Data]	1 0	Stop Start Disable	0			0														
Tracking Auto Sta		1 000h	Disable Enable 0 (Maskなし)	0			0														
Mask Top	QSL:BE OSL:BE:[Data]	– 438h 000h	- 1080 0 (Maskなし)	0			0														
Mask Bottom	QSL:BF OSL:BF:[Data]	- 438h 000h	1080				-														
Mask Left	QSL:CO OSL:CO:[Data]	000h - 780h	0 (Maskなし) - 1920	0			0														
Mask Right	QSL:C1 QSL:C1:[Data]	000h -	0 (Maskなし) -	0			0														
		780h 000h	1920 Preset1	0		 	0								 						
Home Position	QSL:C2 OSL:C2:[Data]	- 780h	Preset2 Preset3 None																		
Focus Guide	QSL:C3 QSL:C3:[Data]	0	Wide Off			0						 	 								
	USL:C3:[Data]	1 [Data1] 00h	On [Data1] H POS. 0%			0															
Focus Guide	QSL:C4 OSL:C4:[Data1][Data2	– 64h	100%																		
Focus Guide Position	USL.U4.[Data1][Data2 	[Data2] 00h	[Data2] V POS. 0%																		
	1	- 64h	100%																		
		7Bh - 80h	-5 (NEAR) - 0 (IN FOCUS)																	_ _	
Focus Guide Statu (Web UI)	s QSL:C5 OSL:C5:[Data]	– 85h	5 (FAR)																		
		FEh FFh	FOCUS GUIDE OFF NOT MEASURABLE																		

Command		Data Contents																		
ITEM Control / Response / Confirmation	Data 62h	Control and Response to contol -30 (NEAR)	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
Focus Guide Status QSL:C6	_ 80h	O(IN FOCUS)																		
Focus Guide Status QSL:C6 (Detail) QSL:C6:[Data]	– 9Eh FEh	30 (FAR) FOCUS GUIDE OFF																		
SYNC STATUS (GEN- QSL:C7 LOCK / PTP)	FFh 0 1	NOT MEASURABLE NO SYNC SYNC	0		0		<u> </u> 						<u> </u>		<u></u>					
ST2110 JPEG XS TX VIDEO SELECT GSL:C8 OSL:C8:[Data]	0	MAIN CROP			0															
SELECT	10h 11h	1080/59. 94p 1080/50p			0															
	14h 15h 17h	1080/29. 97p 1080/25p 2160/29. 97p																		
ST2110	18h 19h 1 A h	2160/25p 2160/59. 94p 2160/50p																		
MAIN VIDEO JPEG XS QSL:C9 TX OSL:C9:[Data] FORMAT	1Bh 1Fh	2160/23.98p 2160/60p																		
	20h 21h 22h	1080/60p 2160/24p 1080/24p																		
	23h FFh	1080/23.98p DISABLE(query only)																		
CT0110	10h 11h 14h	1080/59. 94p 1080/50p 1080/29. 97p			0															
ST2110 CROP VIDEO JPEG XS QSL:CA TX OSL:CA:[Data]	15h 20h	1080/25p 1080/60p																		
FORMAT	22h 23h FFh	1080/24p 1080/23.98p DISABLE (query only)																		
	04h 05h	1080/59. 94i 1080/50i 1080/50. 04-			0															
ST2110 RET VIDEO JPEG XS QSL:CB	10h 11h 14h 15h	1080/59, 94p 1080/50p 1080/29, 97p																		
ST2110 RET VIDEO JPEG XS QSL:CB RX OSL:CB:[Data] FORMAT	15h 20h 22h	1080/25p 1080/60p 1080/24p																		
	23h FFh	1080/301 1080/59. 94p 1080/50p 1080/29. 97p 1080/25p 1080/60p 1080/24p 1080/23. 98p DISABLE (query only)																		
AUTO IRIS WINDOW QSL:CC OSL:CC:[Data]	0	Off On			0						O (UE150) (HE145)									
	[Data1] 00h -	[Data1]UPPER LEFT(H) 0 -	0		0						○ (UE150) (HE145)									
	08h [Data2] 00h	8 [Data2]UPPER LEFT(V) 0																		
AUTO IRIS WINDOW POSITION QSL:CD OSL:CD:[Data1]:[Data 2]:[Data3]:[Data4]	- 04h [Data3] 00h -	- 4 [Data3]BOTTOM RIGHT(H) 0																		
	08h [Data4] 00h	8 [Data4]BOTTOM RIGHT(V) O																		
	- 04h	4																		
PRESET PTZ SYNC QSL:CE MODE QSL:CE:[Data]	0 1 0	Off On Off	0		0			0	:											
Timecode Overwrap QSL:CF OSL:CF:[Data]	1 2 3 4	UR BR BL UL																		
Camera Title QSL:D0	0 1 2	Off UR BR						0												
Camera Title QSL:D0 Overwrap OSL:D0:[Data]	3 4	BL UL																		
FPS SW QSL:DC OSL:DC:[Data]	0 1	0FF 0N 24			O supports only															
FPS QSL:DD OSL:DD:[Data]	1 2 3	30 60 25			supports only 3:25 4:50															
TRACKING AUTO FOCUS QSL:E6 OSL:E6:[Data]	4 0 1	50 0FF 0N			0															
222 70: [2440]	[Data1] 00h	[Data1]AF POSI. H			0															
	- 64h [Data2]	100% [Data2]AF POSI. V																		
TRACKING FOCUS OSL:E7:[Data1]:[Data POSITION 2]:[Data3]:[Data4]	00h - 64h	0% _ 100%																		
	[Data3] 00h 01h	[Data3]AF AREA SIZE O(SMALL) 1(BIG)																		
	[Data4] 0	[Data4]位置AFの一時停止 AF																		
TRACKING FOCUS POSITION OSL:E9:[Data] RESET	1	STOP RESET			0															
HDMI QSL:EA Output Source OSL:EA:[Data]	0 1 2	12G SDI/Opt 3G SDI1 3G SDI2	0																	
	76h - 80h	-5 -		0																
DNR LEVEL QSL:EB OSL:EB:[Data]	80n - 8Ah	5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7																		
		(1step=0.5刻み)	<u> </u>	1	<u> </u>	1	<u> </u>				1	<u> </u>	<u> </u>	<u> </u>	<u> </u>		ļ			

	Command		Data Contents																		
ITEM	Control / Response / Confirmation	Data	Control and Response to contol	UE150A	UB50/UB10	UE160	UE80/UE50/UE40/UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UB300	UE70series	HE75series	HE70series	HE130	HE120	HE60	HE50
		00h 06h 0Ch	Auto 6dB 12dB		0																
		12h 18h	18dB 24dB																		
AGC Max Gain(dB)	QSL:EF OSL:EF:[Data]	1Eh 24h	18dB 24dB 30dB 36dB 42dB																		
		2 A h 2Ch	44db																		
		30h 32h 36h	48dB 50dB(UB10 only)																		
		36h	54dB (UB50 only) Disable					 													
AUTO TRACKING TALLY ENABLE	QSM:3D OSM:3D:[Data]	1	Enable OFF				0														
AUTO TRACKING TALI LED	OSM:3E:[Data]	1	ON																		
SCENE UPDATE	QSM:3F OSM:3F:[Data]	0 1	OFF ON			0															
Backlight COMP.Level	QSM:40 OSM:40:[Data]	0 1 2	LOW MID High				0														
AUTO TRACKING TALLY COLOR	QSM:41 OSM:41:[Data]	0	HIGH AMBER RED GREEN				0														
		000h 001h	-511 -511																	0	0
SC Fine	OSN: [Data]	002h -	-511 -																		
00 1 1110	QSN	200h _ 3FFh	0 - +511																		
Software Version	QSV	SEFII	Software Version	0		0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
(System Version)	OSV: [Data]	00h	-10		<u> </u>						 		0		0	0	0	0	0	0	0
		_ 1Eh	_ 0																		
		_ 3Ch	- +10																		
T Pedestal	OTD:[Data] QTD		HR140, HE130, HE120																		
	Q1D	00h -	-150 -																		
		1Eh -	0 -																		
		3Ch	150																		
		000h -	-150 -										0		0	0	0	0	0	0	0
		096h -	U -																		
	OTD: [D]	12Ch	+150																		
T Pedestal	OTP:[Data] QTP	0001	<u>UE70series, HE75series, HE70serie</u> <u>s, HE60, HE50</u> -10																		
		000h -	-10 -																		
		096h - 12Ch	- 10																		
Serial Com.	OVP:02:[Data]	0	Panasania				<u> </u>														
Protocol Serial Connector	QVP:02 QVP:03:[Data]	1 0	Panasonic Standard																		
Select	QVP:03	1 0	RS232C 9600hns				<u> </u>	supports only													
Serial Baud Rate	OVP:04:[Data] QVP:04	1 2	RS422 RS232C 9600bps 38400bps 115200bps					supports only 0 (9600bps), 1 (3840 0bps)													
		0 1	Auto 1					0													
Serial Camera	OVP:05:[Data] QVP:05	2 3	2 3																		
Address	QVP:05	4 5	4 5																		
		6 7	6 7																		
AWC/AWB SET	OWS		AWC/AWB Start	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R-Tally Control	TLR:[Data] QLR OLR:[Data]	1	Off On																		
G-Tally Control	TLG:[Data] QLG OLG:[Data]	0 1	Off On	Ó	Ī	O	0		0	0		0		0	<u> </u>					Ī	
Y-Tally Control	TLY: [Data]	0 1	Off On	0	O(query only)	0															
I-TALLY CONTROL	OLY: [Data]	· ·		 *		 w	 	 *		 *	 w	lw.	 		.w.		 w	*	<u>*</u>		<u></u>
Scene File	TLY: [Data] QLY OLY: [Data] XSF: [Data] QSF OSF: [Data]	*	*	X	**	X	**	X	**	**	X	**	**	,x	**	**	**	78.	.x.	**	*
	[5464]				•	1	•	•						1	•						

PT command

Provide Control Provide Co	PT comma	<u>nd</u>																		
The column Column						_	_	Г			_	_	1		_		1	1	_	1
Part	ITEM	Confirmation	Data	Data Contents	UE150A	UE160		UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UE70series	HE42series	HE40series	HE130	HE120	HE60	HE50
Part Part		Response			supports only	supports only	supports only	supports only	supports only	supports only	supports only	supports only	supports only	supports only	supports only	supports only	supports only	supports only	supports only	supports only
Part Part					Pan 2D09(CCW Limit)	Pan 2D09(CCW Limit)	Pan 2D09(CCW Limit)	Pan	Pan	Pan	Pan	Pan	Pan	Pan 2D09(CCW Limit)	Pan	Pan 2D09(CCW Limit)	Pan	Pan	Pan	Pan
Company Comp						-D2F5(CW Limit)			-D2F5(CW Limit)	-D2F5(CW Limit)	Tilt			-D2F5(CW Limit)		-D2F5(CW Limit)	-D2F5(CW Limit)	-D2F5(CW Limit)	-D2F5(CW Limit)	-D2F5(CW Limit)
Market Ma	D/T AL LL D W	#APC[Data1][Data2]								1C71(UP Limit)										
Control Cont			[Data2]	[Data2]Tilt Position	-8E38(DOWN Limit)	-8E38(DOWN Limit	-8E38(DOWN Limit)	-8E38(DOWN Limit)	-8E38(DOWN Limit)	-8E38(DOWN Limit)		-8E38(DOWN Limit)	-8E38(DOWN Limit)	-8E38(DOWN Limit)	-8E38(DOWN Limit)	-8E38(DOWN Limit)	-8E38(DOWN Limit)	-8E38(DOWN Limit)	-8E38(DOWN Limit)	-8E38(DOWN Limit)
Part		aPG[Data1][Data2]	0000h	UP Limit																
March Marc				Center																
Column C																				
Part					0	0	0		0	0		0	0	0	0	0	0			
Marchester Mar			0000h	CCW Limit		Ŭ	ľ					ľ	Ĭ	Ĭ			ľ			
THE PROPERTY OF THE PROPERTY O																				
Table of the control																				
## PATE OF THE PAT																				
Marchane Marchane																				
Company Comp		#APS[Data1][Data2][Data3][
Part Part	P/T Absolute Position	Data4]	-	-																
Part	Control with Speed																			
Second 1968				[Data3]Preset Speed 1																
Second S			-																	
STATE OF THE PROPERTY OF THE P																				
The color			[Data4] 0																	
Marie Mari			1	Fast																
Marie Mari			2	Fast																
March Marc	Focus Position	#AXF[Data]			0	0	0	0	0	0	supports only	0	0	0	0	0	0	0	0	0
Second S	Control	axf[Data]	FFFh	Far																
Marie Mari	Iris Control	#AXI[Data]			0	0	0	0	0	0	supports only 555	0	0	0	0	0	0	0	0	0
Series Se				Iris Open Wide	0	0	0	0	0	0	supports only	0	0	0	0	0		0	0	0
Marke Mark			-	-	Ŭ	Ŭ	ľ				555		Ĭ	Ŭ			ľ	Ŭ		
Series of the control		axz[Data]	FFFh	Tele																
March Marc		#C[Data]			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marie Mari	Delete Preset Memory	s[Data]																		
Marie Mari		#D1[Data]	0	Manual	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Address Andress Focus Mode	#D1	1	Auto																	
State Stat		#D3[Data]	0		0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Part Part	Iris Mode	#D3 d3[Data]	1	Auto																
March Marc	Day/Night	#D6[Data] #D6	0		0	0	O (UE80)		0	0		0	0	0	0	0	0		0	0
## A Company of Compan		d6[Data]					(UE50, UE40, UE30)													
90 Colors Color Co	Defroster Control	d7[Data]	0 1						0				1 : On							
## MDDR B	Wiper Control	#D8[Data] d8[Data]	0 1						0											
Final Fina	Ht/F 0t		0	Off(Auto)					0				(Heater)							
Table Tabl			l	On									1 : On							
A	R-Tally Control	#DA	0 1	Off On	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Signate Cortion Signate Co		dA[Data] #nc	0				<u> </u>										<u> </u>			
Designed Carbon Signed For Min. Speed efroster Status	dS[Data]	1	0n																	
Seas Speed Cartrol (S)Mail 50 For Max. Speed 50 50 For Max. Speed 50 50 50 50 50 50 50 5					O	0	O	0	0	0		O	O	O	0	0	O	O	0	O
Far Min. Speed Signate		#F[Data]																		
##WIDERS 99 Far Max. Speed	Focus Speed Control	fS[Data]		Far Min. Speed																
### #### #############################			99																	
## AL[URIA] 1 High			0		0	0	(JIF80)		Supports only	0			Supports only				 			
FAX[Data]	Fan		1	High	ľ	Ĭ			0(Auto)	Ĭ		Ĭ	0(Auto)							
#FAZ[Data]	[fAN[Data]	3	Mid Low			(UE5U, UE4U, UE30)		I(On)				I(On)							
#F2		#FA2[Data]	0		0	0			Supports only			0								
FAL(Data) 3 Low	Fan2	#FA2	2	Mid					1(On)											
Detect Angle #FDA ToAl (Data) ToAl (fA2[Data]	3	Low																
#FS1	Elip Data at Assal	#FDA[Data]			0	0			0	0		0	0				0	0		
#Status1 #FS1	riip Detect Angle	#FDA fDA[Data]	78h																	
FS Use	_		0		0	0	O (UE80)		0	0	 	0	Supports only				 			
#F32	Fan Status1	fS1[Data]	2				(UE50, UE40, UE30)						U(Off), I(On)							
Total Tota		#F\$2	0	0ff	0	0			0			0	Supports only							
Total Tota	Fan Status2	fS2[Data]	1 2	On Error									0(Off), 1(On)							
equest Focus #GF FFFh Far osition gf[Data]				Near	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
osition gf[Data]	Request Focus	#GF																		
©I OWEI OII	Position	gf[Data]																		
	L	1	<u> </u>	erower Uπ	1	L	1	l	l	L			1	<u> </u>		L	1	!	L	l

	Command		Ī																
ITEM	Control Confirmation	Data	Data Contents	UE150A	UE160	UE80/UE50/UE40,UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UE70series	HE42series	HE40series	HE130	HE120	HE60	HE50
	Response	[Data1] 555h	[Data1] Close	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
		FFFh	- Open																
Request Iris Position	#GI gi[Data1][Data2]	" "	@Power Off																
		[Data2] 0	[Data2] Manual Iris																
		1	Auto Iris																
Request Zoom	#G7	555h - 	Wide	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Position	#GZ gz[Data]	FFFh ""	Tele @Power Off																
		[Data1] 0000h	[Data1] Pan Position CCW Limit	0	0	0		0					 						
		- FFFF	- CW Limit																
		[Data2] 0000h	[Data2] Tilt Position UP Limit																
		FFFFh	DOWN Limit																
		[Data3] 00h 01h	[Data3] Pan Speed 0(stop) 1(minimum speed)																
		– FFh	- 255(max speed)																
	#I I A O [D - + - 1] [D - + - 2] [D - + - 2] [[Data4] 00h	[Data4] Tilt Speed 0(stop)																
Control with Speed	#HAC[Data1][Data2][Data3][Data4][Data5][Data6][Data7] [Data8]	01h - FFh	1(minimum speed) - 255(max speed)																
and acceleration (PT Independent Control)	hAC[Data1][Data2][Data3][D ata4][Data5][Data6][Data7][[Data5] 01h	[Data5]Pan Rise Acceleration 1(minimum acceleration)																
Control)	Data8]	- FFh	- 255(max acceleration)																
		[Data6] 01h -	[Data6]Tilt Rise Acceleration 1(minimum acceleration)																
		FFh [Data7]	255(max acceleration) [Data7]Pan Fall Acceleration																
		01h -	1(minimum acceleration) -																
		FFh [Data8]	255(max acceleration) [Data8]Tilt Fall Acceleration																
		01h - FFh	1(minimum acceleration) - 255(max acceleration)																
		[Data1] 0000h		[Data6] 0(query)	[Data6] Invalid	[Data6] 0(query)		[Data6] 0(query)	[Data6] 0(query)		[Data6] Invalid								
		8000h –	CENTER																
		FFFFh [Data2]	CW LIMIT [Data2]TILT POSITION																
		0000h -	UP LIMIT -																
		8000h - FFFFh	CENTER - DOWN LIMIT																
		[Data3] 00h	[Data3]PRESET SPEED																
	#HA1[Data1][Data2][Data3][_	30																
	#HA1[Data1][Data2][Data3][Data4][Data5][Data6][Data7] #HA1	Ŭ	[Data4]PRESET SPEED TABLE SLOW FAST																
CONTROL	hA1[Data1][Data2][Data3][Da ta4][Data5][Data6][Data7]	2 [Data5] 555h	[Data5]ZOOM POSITION WIDE																
		– FFFh	- TELE																
		[Data6] 01h	[Data6]ZOOM SPEED 1																
		– 64h [Data7]	100 [Data7]FOCUS POSITION																
		555h -	NEAR -																
		FFFh	FAR																
		7F00h	−256 : Left Max. Speed	0	0	0		0	0		0								
Pan Speed Control (High precision)	#HP[Data] hP[Data]	– 8000h	- 0 : Stop																
д р. 35/6/01/у		8100h	+256 : Right Max. Speed																
		[Data1] 7F00h -	[Data1] -256 : Left Max. Speed -		0			ľ	0										
		8000h -	0 : Stop -																
P/T Speed Control (High precision)	#HPT[Data1][Data2] hPT[Data1][Data2]	8100h	+256 : Right Max. Speed																
(High precision)	InP [Data1][Data2]	[Data2] 7F00h -	[Data2] −256 : Down Max. Speed –																
		8000h -	0 : Stop																
	4110	8100h	+256 : Up Max. Speed																
Heater Status	#HS hS[Data]	0 1	Off On					O				0							

	Command																		
ITEM	Control Confirmation	Data	Data Contents	UE150A	UE160	UE80/UE50/UE40,UE	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UE70series	HE42series	HE40series	HE130	HE120	HE60	HE50
	Response	7F00h -	−256 : Down Max. Speed	0	0	0		0	0		0								
Tilt Speed Control (High precision)	#HT[Data] hT[Data]	8000h -	0 : Stop -																
		8100h [Data1]	+256 : Up Max. Speed [Data1]	0	0	0		0	0	<u> </u>	0		<u> </u>			<u> </u>			
		00 01 -	NO CHANGE LEFT MAX. SPEED																
		50 -	STOP -																
		99 [Data2]	RIGHT MAX. SPEED [Data2]																
		00 01 -	NO CHANGE DOWN MAX. SPEED -																
		50 -	STOP -																
PTZF SPEED	#HV1[Data1][Data2][Data3][Data4]	99 [Data3] 00	UP MAX. SPEED [Data3] NO CHANGE																
CONTROL 1	hV1[Data1][Data2][Data3][Da ta4]	01 -	WIDE MAX. SPEED -																
		50 - 99	STOP - TELE MAX. SPEED																
		[Data4] 00	[Data4] NO CHANGE																
		01 -	NEAR MAX. SPEED																
		50 - 99	STOP - FAR MAX. SPEED																
		[Data1] 0000h	[Data1] NO CHANGE	0	0	0		0	0		0								
		7F00h - 8000h	LEFT MAX. SPEED																
		8000h - 8100h	STOP - RIGHT MAX. SPEED																
		[Data2] 0000h	[Data2] NO CHANGE																
		7F00h - 8000h	DOWN MAX. SPEED - STOP																
	#HV2[Data1][Data2][Data3][– 8100h	UP MAX. SPEED																
PTZF SPEED CONTROL 2	Data4] hV2[Data1][Data2][Data3][Da	[Data3] 0000h 7F00h	[Data3] NO CHANGE WIDE MAX. SPEED																
	ta+]	– 8000h	- STOP																
		– 8100h [Data4]	- TELE MAX. SPEED [Data4]																
		00 01	NO CHANGE NEAR MAX. SPEED																
		50 -	STOP																
		99	FAR MAX. SPEED																
	#I[Data]	01	Iris Close	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Iris Control	#I iC[Data]	99	- Iris Open																
Install Positon	#INS[Data] #INS iNS[Data]	0 1	Desktop Hanging	O	0	O	O	O	O	0	0	0	O	O	0	O	O	O	O
		<u>Controller −></u> <u>P/T</u>	Tilt Up	0	0	0		0	0		0	0	0	0	0	0	0	0	0
Limitation Control	#L[Data]	1 2 3	Tilt Down Pan Left Pan Right																
(toggle)	I[Data]	4																	
		<u>P/T −></u> <u>Controller</u> 0	Release Set																
		[<u>Data1]</u> 1	[Data1] Tilt Up	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	#LC[Data1][Data2]	2 3 4	Tilt Down Pan Left Pan Right																
Limitation Control	#LC[Data1][Data2] #LC[Data1] IC[Data1][Data2]	[<u>Data2]</u>																	
		0 1	[<u>Data2]</u> Release Set																
Status Lamp	#LMP[Data] #LMP	0 1	Disable Enable	0	0	0	0		0		0					0			
Lens Position Information Control	#LMP IMP[Data] #LPC[Data] #LPC IPC[Data]	0 1	Off On	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Information Control	IPC[Data]	[Data1]	[Data1]Zoom Position	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
		555h - FFFh	Wide - Tele																
Lens Position	#LPI	[Data2] 555h	[Data2]Focus Position Near																
Information	#LPI PI[Data1][Data2][Data3]	– FFFh [Data3]	– Far [Data3]Iris Position																
		555h -	Close -																
		FFFh	Open																

	Command																		
ITEM	Control Confirmation Response	Data	Data Contents	UE150A	UE160	UE80/UE50/UE40,UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UE70series	HE42series	HE40series	HE130	HE120	HE60	HE50
Save Preset Memory	#M[Data] s[Data]	00 - 99	Preset001 - Preset100	0	0	0	Ö	0	O	O	0	Ó	0	Ō	0	0	Ō	Ó	Ō
Power On / Standby	#O p[Data]	0 1	Power Off Power On	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		01 -	Starting(※) Left Max. Speed -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pan Speed Control	#P[Data] pS[Data]	50 - 99	Stop - Right Max. Speed																
		[Data1] 00h	[Data1] Preset 001~040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		01h 02h	Preset 041~080 Preset 081~100																
		[Data2] 0000000000h -	[Data2]																
Preset Entry	#PE[Data1]	FFFFFFFFFh (bit0)	Preset No.(Data1*40 + 1)																
Confirmation	pE[Data1]	0 1 (bit1)	No Entry Entry Preset No.(Data1*40 + 2)																
		0 1 -	No Entry Entry –																
		(39bit) 0 1	Preset No.(Data1*40 + 40) No Entry Entry																
	#PRF[Data]	0	Off	0	0	0		0	0		0	0	0	0	0	0			
Freeze During Preset	#PRF pRF[Data] #PST[Data]	1 0	On Slow	supports only	supports only	supports only	supports only	supports only	supports only		Ŭ	supports only							
Preset Speed Table	#PST[Data] #PST pST[Data]	1 2 [Data1]	Mid Fast [Data1] (Pan)	0(Slow) 2(Fast)	0(Slow) 2(Fast)	0(Slow) 2(Fast)	0(Slow) 2(Fast)	0(Slow) 2(Fast)	0(Slow) 2(Fast)		0(Slow) 2(Fast)	0(Slow) 2(Fast)	0(Slow) 2(Fast)	0(Slow) 2(Fast)	0(Slow) 2(Fast)	0(Slow) 2(Fast)			
		0000h - FFFFh	0000h -																
		[Data2] 0000h	FFFFh [Data2] (Tilt) 0000h																
		FFFFh [Data3]	– FFFFh [Data3] (Zoom)																
Get Pan/Tilt/Zoom/F	#PTD pTD[Data1][Data2][Data3][D ata4][Data5]	000h - 3E7h	0 - 999 [Data4] (Focus)																
ocus/Iris		[Data4] 00h -	[Data4] (Focus) 0 –																
		63h [Data5] 00h	99 [Data5] (Iris) F0.0																
		– FEh FFh	– F25.4 CLOSE																
		[Data1] 02h	[Data1] (Gain) -6dB	[Data1]Gain support	ss [Data1]Gain support	s O		0	0		0								
		11h	9dB -	08h(0dB) - 32h(42dB)	02h(-6dB) - 14h(12dB)														
		1Ah - 32h	18dB _ 42dB	80h(AGC ON)	1411(1205)														
		80h [Data2]	AGC On [Data2]																
		00000h - 3A98h	0K - 15000K																
Get	#PTG pTG[Data1][Data2][Data3][D	[Data3] 0h 1h	[Data3] (Shutter Mode) Off Step																
Shutter/ND	pTG[Data1][Data2][Data3][D ata4][Data5][Data6]	[Data4]	Syncro ELC [Data4] (Shutter Step)																
		0001h - 2710 h	1/1 - 1/10000																
		[Data5] 00000h -	[Data5] (Shutter Synchro) 0.0 [Hz] -																
		186A0h [Data6] 0	10000.0[Hz] [Data6] (ND) Throgh																
		1 2 3	1/4 ND 1/16 ND 1/64 ND																
-		[Data1] 01	[Data1] Left Max. Speed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		- 50 -	Stop																
P/T Speed Control	#PTS[Data1][Data2] pTS[Data1][Data2]	99 [Data2]	Right Max. Speed [Data2]																
	pı S[Data1][Data2]	01 -	Down Max. Speed -																
		50 - 99	Stop - UP Max. Speed																
L	<u> </u>			1				L	<u> </u>	1	L	<u> </u>			<u> </u>			<u> </u>	

	Command				<u> </u>						T	Γ		1	•	T		<u> </u>	
ITEM	Control Confirmation Response	Data	Data Contents	UE150A	UE160	UE80/UE50/UE40,UE 30	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UE70series	HE42series	HE40series	HE130	HE120	HE60	HE50
		[Data1] 0000h	[Data1] (Pan) ccwLimit	0	0	0		0	0		0		Ī						
		- 8000h	– Center																
		– FFFFh [Data2] 0000h	- cwLimit [Data2] (Tilt) UpLimit																
		- 8000h	- Center																
Get	#PTV	FFFFh	DownLimit																
/Iris	pTV[Data1][Data2][Data3][D ata4][Data5]	[Data3] 555h –	[Data3] (Zoom) Wide –																
		FFFh [Data4]	Tele [Data4] (Focus)																
		555h -	Near _ _																
		FFFh [Data5] 555h	Far [Data5] (Iris) Close																
		- FFFh	– Open																
Preset completion	[n .]	00	<u>Preset001</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
notification	q[Data] #QSV[Data1]	99	Preset100	×		×		×	×		w	l.×	 *	W	×	 	×-	W	<u> </u>
Software Version	qSV[Data1] qSV[Data1]V[Data2].[Data3][Data4][Data5][data6]		*	^		^		^			~	^	^		^	^	^	^	
Recall Preset Memory	#P[Data]	00 - 99	Preset001 - Preset100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latest Error	#RER	99 ※	*	*	*	*		*	*		*	*	*	*	*	*	*	*	*
Information IR ID / Wireless ID	rER[Data] #RID[Data] #RID rID[Data]	0 1	CAM1 CAM2	0	0	(UE80) O (UE50, UE40, UE30)	0			0			0	0	0				
IR ID / Wireless ID	rID[Data]	2 3	CAM3 CAM4								0	0							<u> </u>
		[Data1] 0000h -	[Data1]Pan Position CCW Limit –	O	0				0		0	O	O	0	0				
		8000h -	Center –																
P/T Relative Position	#RPC[Data1][Data2] rPC[Data1][Data2]	FFFFh [Data2]	CW Limit [Data2]Tilt Position																
Control	ir O[Data1][Data2]	0000h -	UP Limit																
		8000h -	Center –																
		FFFFh [Data1]	DOWN Limit [Data1]Pan Position	0	0	0		0	0		0	0	0	0	0	0			
		0000h -	CCW Limit -																
		8000h -	Center -																
		FFFFh [Data2]	CW Limit [Data2]Tilt Position																
		0000h -	UP Limit -																
P/T Relative Position	#RPS[Data1][Data2][Data3][8000h - FFFFh	Center - DOWN Limit																
Control with Speed	Data4] rPS[Data1][Data2][Data3][Da ta4]	[Data3]	[Data3]Preset Speed																
		00h -	1 -																
		1Dh [Data4]	30 [Data4]Preset Speed Table																
		0 1	Slow Mid																
		2	Fast																
		0	640×360	0	0	0		0	0		0		supports only	supports only	supports only				
		1 2 3	320×180 1280×720 1920×1080										0(640x360) 1(320x180)	0(640x360) 1(320x180)	supports only 0(640x360) 1(320x180)				
Resolution Control	#RZL[Data] #RZL rZL[Data]	<u>UE160</u>	<u>UE160</u>																
	rZL[Data]	0 1 2	640X360 320X180 1280X720																
		3 4	1920X720 1920X1080 3840X2160																
Request Latest Recal Preset No.	#S s[Data]	00 -	Preset 1 -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	#SPF[Data]	99 0	Preset 100 Off	0	0			0	0		0	0			 	0	0		
Smart Picture Flip	#SPF sPF[Data] #SWZ[Data]	0	Auto Off	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Speed With Zoom Position	#SWZ sWZ[Data]	1	On																
TIL O	#T[Data]	01 - 50	Down Max. Speed - Stop		O		U				O	O							
Tilt Speed Control	#T[Data] tS[Data]	99	UP Max. Speed																
	COLDAIAJ																		

	Command			T															
ITEM	Control Confirmation	Data	Data Contents	UE150A	UE160	UE80/UE50/UE40,UE	UE20/HE20	UR100	UE100	UE4	UE150/HE145	HR140	UE70series	HE42series	HE40series	HE130	HE120	HE60	HE50
Tally Infomation	#TAA tAA[Data1][Data2][Data3][Da ta4][Data5][Data6][Data7][D ata8][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 [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 Green Tally On [Data5] Wired Green Tally In Off Wired Green Tally In On [Data6] Command Green Tally In Off Command Green Tally In Off Command Green Tally In Off Command Green Tally In On [Data7] Yellow Tally Off Yellow Tally On [Data8] Wired Yellow Tally In Off Wired Yellow Tally In On [Data9] Command Yellow Tally In Off Command Yellow Tally In Off	[Data5],[Data8]:unuse d	[Data5],[Data8]:unuse	30 E [Data5],[Data7],[Data 8],[Data9]:unused	[Data2],[Data4],[Data 5],[Data6],[Data7],[Da ta8],[Data9]:unused	[Data5],[Data7],[Data 8],[Data9]:unused	[Data5],[Data7],[Data 8],[Data9]:unused		[Data5],[Data7],[Data 8],[Data9]:unused								
Tally Enable	#TAE[Data] #TAE tAE[Data]	0	Disable Enable	0	0	0	0	supports only 1(Enable)	0	0	0		0	0	0	0	0	0	0
Preset Speed	#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		O	O	O Preset Speed Unit is fixed to 0(Speed Table)	O	0		0	O	O	0	O	O	0	O	0
Washer	#WAS[Data] #WAS wAS[Data]	0	Off On					0				0							
Wiper	#WIP[Data] #WIP wIP[Data]	0 1 2	Off Fast Slow					0				0							
Wireless Control	#WLC[Data1] #WLC wLC[Data1]	0	Disable Enable	0	0	0	0		0	0	0		0	0	0	0	0	0	0
Washer P/T Positio	wLC[Data1] n #WPR wPR							0				0							
Reset Washer P/T Positio	WIIV							0				0							
Zoom Speed Control	W710]	01 - 49 50 51 - 99	Wide Max. Speed Wide Min. Speed Stop Tele Min. Speed Tele Max. Speed	0	Ο	O	Ο	0	0	0	Ο	O	0	0	Ο	Ο	0	Ο	0

★Details

▼OSH

Parameters vary depending on model and System Format

١			LIETO : LIETO : LIETO LIETO	115100
	HR140,		UE70series, HE42series, HE40series, HE60, HE50	HE120
	(59.94p/59.94i)	F(1/30)	0(OFF),	0(OFF),
	0(OFF)	(23.98p)	3(1/100 NTSC)	3(1/100 NTSC)
	3(1/100)	0(OFF)	(1/120 PAL),	(1/120 PAL),
	4(1/120)	2(1/60)	5(1/250)	5(1/250)
	5(1/250)	4(1/120)	-	_
	_	5(1/250)	B(Synchro-Scan)	C(ELC)
	C(ELC)	-		
		D(1/24)		
	(29.97p)	(50p/50i)		
	0(OFF)	0(OFF)		
	2(1/60)	2(1/60)		
	4(1/120)	3(1/120)		
	5(1/250)	5(1/250)		
	_	_		
	C(ELC)	C(ELC)		
		(25p)		
		0(OFF)		
		2(1/60)		
		3(1/120)		
		5(1/250)		
		C(ELC)		
		E(1/25)		
		, , ==,		

▼OSA:87

Parameters vary depending on model						
ı	JB50	UB10				
[59. 94Hz]	[24Hz]	[59. 94Hz]				
04h (1080/59. 94i)	B6h (1080/48p)	10h (1080/59. 94p)				
10h (1080/59. 94p)	B7h (1080/47, 95p)	14h (1080/29. 97p)				
14h (1080/29. 97p)	B8h (3840x2160/48p)	17h (3840x2160/29. 97p)				
17h (3840x2160/29. 97p)	B9h (3840x2160/47. 95p)	19h (3840x2160/59. 94p)				
19h (3840x2160/59. 94p)	1Bh (3840x2160/23, 98p)	90h (3328x2496/59. 94p)				
26h (1080/119. 88p)	21h (3840x2160/24p)	94h (3328x2496/29. 97p)				
90h (3328x2496/59. 94p)	22h (1080/24p)	98h (4096x2160/59. 94p)				
94h (3328x2496/29. 97p)	23h (1080/23. 98p)	9Ch (4096x2160/29. 97p)				
98h (4096x2160/59. 94p)	92h (3328x2496/48p)	A0h (3680x2760/59. 94p)				
9Ch (4096x2160/29. 97p)	93h (3328x2496/47. 95p)	A2h (3680x2760/29.97p))				
A5h (4128x2176/59. 94p)	96h (3328x2496/24p)					
A7h (4128x2176/29. 97p)	97h (3328x2496/23. 98p)	[50Hz]				
ABh (3536x2656/29. 97p)	9Ah (4096x2160/48p)	11h (1080/50p)				
AEh (5888x3312/29. 97p)	9Bh (4096x2160/47. 95p)	15h (1080/25p)				
B2h (5376x3584/29. 97p)	9Eh (4096x2160/24p)	18h (3840x2160/25p)				
	9Fh (4096x2160/23. 98p)	1Ah (3840x2160/50p)				
[50Hz]	A9h (4128x2176/23. 98p)	91h (3328x2496/50p)				
05h (1080/50i)	ADh (3536x2656/23. 98p)	95h (3328x2496/25p)				
11h (1080/50p)	B0h (5888x3312/24p)	99h (4096x2160/50p)				
15h (1080/25p)	B1h (5888x3312/23. 98p)	9Dh (4096x2160/25p)				
18h (3840x2160/25p)	B4h (5952x3968/24p)	A1h (3680x2760/50p)				
1Ah (3840x2160/50p)	B5h (5952x3968/23, 98p)	A3h (3680x2760/25p)				
27h (1080/100p)						
91h (3328x2496/50p)		[24Hz]				
95h (3328x2496/25p)		1Bh (3840x2160/23, 98p)				
99h (4096x2160/50p)		21h (3840x2160/24p)				
9Dh (4096x2160/25p)		22h (1080/24p)				
A6h (4128x2176/50p)		23h (1080/23, 98p)				
A8h (4128x2176/25p)		96h (3328x2496/24p)				
AAh (3536x2656/50p)		97h (3328x2496/23. 98p)				
ACh (3536x2656/25p)		9Eh (4096x2160/24p)				
AFh (5888x3312/25p)		9Fh (4096x2160/23. 98p)				
B3h (5376x3584/25p)		A4h (3680x2760/23. 98p)				

▼OSA:87

arameters vary depending o	n model				
UE150A	UE160	JE80, UR100, UE100, UE150	UE50	UE40, UE30	HE145
[59. 94Hz]	[59.94Hz]	[59.94Hz]	[59. 94Hz]	[59. 94Hz]	[59. 94Hz]
01h (720/59. 94p)	01h(720/59.94p)	01h (720/59. 94p)	01h (720/59. 94p)	01h (720/59. 94p)	01h (720/59. 94p)
04h (1080/59. 94i)	10h(1080/59.94p)	04h (1080/59. 94 i)	04h (1080/59. 94 i)	04h (1080/59. 94 i)	04h (1080/59. 94i)
10h (1080/59. 94p)	14h(1080/29.97p)	07h (1080/29. 97psF)	07h (1080/29. 97psF)	10h (1080/59. 94p)	07h (1080/29. 97psF)
14h (1080/29. 97p)	17h(2160/29.97p)	10h (1080/59. 94p)	10h (1080/59. 94p)	14h (1080/29. 97p)	10h (1080/59, 94p)
17h (2160/29. 97p)	19h(2160/59.94p)	14h (1080/29. 97p)	14h (1080/29. 97p)	17h (2160/29. 97p)	14h (1080/29. 97p)
19h (2160/59, 94p)	26h(1080/119.88p)	16h (1080/23. 98p	16h (1080/23. 98p		16h (1080/23. 98p
		(over 59.94i/p))	(over 59.94i/p))	[50Hz]	(over 59.94i/p))
[50Hz]	[50Hz]	17h (2160/29. 97p)	17h (2160/29. 97p)	02h (720/50p)	
02h (720/50p)	02h(720/50p)	19h (2160/59. 94p)		05h (1080/50i)	[50Hz]
05h (1080/50i)	11h(1080/50p)		[50Hz]	11h (1080/50p)	02h (720/50p)
11h (1080/50p)	15h(1080/25p)	[50Hz]	02h (720/50p)	15h (1080/25p)	05h (1080/50i)
15h (1080/25p)	18h(2160/25p)	02h (720/50p)	05h(1080/50i)	18h (2160/25p)	08h (1080/25psF)
18h (2160/25p)	1Ah(2160/50p)	05h(1080/50i)	08h (1080/25psF)		11h (1080/50p)
1Ah (2160/50p)	27h(1080/100p)	08h (1080/25psF)	11h (1080/50p)	[24Hz]	15h (1080/25p)
		11h (1080/50p)	15h (1080/25p)	21h (2160/24p)	
[24Hz]	[24Hz]	15h (1080/25p)	18h (2160/25p)	22h (1080/24p)	[24Hz]
	21h(2160/24p)	18h (2160/25p)			22h (1080/24p)
21h (2160/24p)	22h(1080/24p)	1Ah (2160/50p)	[24Hz]	[23. 98Hz]	
22h (1080/24p)				1Bh (2160/23, 98p)	[23. 98Hz]
500 000 7	[23.98Hz]	[24Hz]	21h (2160/24p)	23h (1080/23. 98p)	0Ah (1080/23, 98psF)
[23. 98Hz]	1Bh(2160/23.98p)		22h (1080/24p)		23h (1080/23. 98p)
1Bh (2160/23. 98p)	23h(1080/23.98p)	21h (2160/24p)			
23h (1080/23. 98p)	F	22h (1080/24p)	[23. 98Hz]		
	[60.00Hz]	500 0011 7	0Ah (1080/23, 98psF)		
	1Fh(2160/60p)	[23. 98Hz]	1Bh (2160/23, 98p)		
	20h(1080/60p)	0Ah (1080/23, 98psF)	23h (1080/23. 98p)		
		1Bh (2160/23, 98p)			
		23h (1080/23. 98p)			

▼OSA:87 (Continued)

arameters vary depending on	model					
UE20	HE20	UE4	HR140	UB300	UE70series	HE40Series
		UE4 [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)	HR140 [59. 94Hz] 1h (720/59. 94p) 4h (1080/59. 94i) 7h (1080/29. 97psF) Ah (1080/29. 97ps) 10h (1080/29. 97p) 14h (1080/23. 98p) [50Hz] 2h (720/50p) 5h (1080/50i) 8h (1080/25psF) 11h (1080/25p) 15h (1080/25p)	UB300 [59. 94Hz] 00h (720/60p) 01h (720/59. 94p) 04h (1080/59. 94i) 07h (1080/29. 97psF) 0Ah (1080/23. 98psF) 10h (1080/23. 98p) 17h (2160/29. 97p) 19h (2160/59. 94p) 18h (2160/23. 98p) 1Ch (2160/29. 97psF) 1Eh (2160/23. 98psF) 1Fh (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 (2160/25psF) 45h (1080/50i CROP) 51h (1080/50p CROP)	UE70series [59. 94Hz] 1h (720/59. 94p) 4h (1080/59. 94i) 7h (1080/29. 97psF) 10h (1080/29. 97p) 14h (1080/29. 97p) 17h (2160/29. 97p) 80h (Auto) [50Hz] 2h (720/50p) 5h (1080/50i) 8h (1080/25psF) 11h (1080/25p) 18h (2160/25p) 80h (Auto) HE42series [59. 94Hz] 1h (720/59. 94p) 4h (1080/29. 97psF) 10h (1080/29. 97psF) 10h (1080/29. 97psF) 10h (1080/29. 97p) 80h (Auto) [50Hz] 2h (720/50p) 5h (1080/50i) 8h (1080/25psF) 11h (1080/25psF) 11h (1080/25psF) 11h (1080/25psF) 11h (1080/25p) 80h (Auto)	HE40Series === 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 (1080/25p) 80h (Auto) === SDI Model === [59. 94Hz] 1h (720/59. 94p) 4h (1080/29. 97psF) 14h (1080/29. 97psF) 14h (1080/29. 97p) [50Hz] 2h (720/50p) 5h (1080/50i) 8h (1080/25psF) 15h (1080/25p)

▼OSA:87(Continued)

Para

arameters vary depending on model						
HE120	HE60	HE50				
HE120 [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) HE130 [59. 94Hz] 1h (720/59. 94p) 4h (1080/59. 94i) 7h (1080/29. 97psF)		[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)				
[59. 94Hz] 1h (720/59. 94p) 4h (1080/59. 94i)	4h (1080/59.94i) Bh (480/59.94i) [S Model/50Hz] 2h (720/50p) 5h (1080/50i)	2h (720/50p) 5h (1080/50i) Dh (576/50i) 11h (1808/50p)				

▼OSD:B1

Parameters vary depending on model

	HR140, HE130	UE70series, HE42series, HE40series		
[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,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,4660K,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

Parameters vary depending on System Frequency

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

▼OAW

Parameter meaning var between control command and response for confirmation command

	Control	Confirmation		
	ATW	0	ATW	
	AWC A	1		
2	AWC B	2	AWC A	
	3 ATW	3	AWC B	
4	Preset 3200K	4	Preset 3200K	
į	Preset 5600K	5	Preset 5600K	
(Preset 4500K	6	Preset 4500K	
	Preset 6000K	7	Preset 6000K	
8	Preset 2800K	8	Preset 2800K	
) Var	9	Var	

a <u>rameters vary dep</u>				
	UE150A, UE160, UE80, UE50, UE40, UE30, UR100, UE100, UE150, HE145, HR140, UE70series, HE42series, HE40series, HE130, HE120	UE20/HE20/UE4	HE60/HE50	UB50,UB10
Control	ATW AWC A AWC B ATW ATW ATW AFREST 3200K Preset 5600K ATW ATW ATW ATW ATW ATW ATW ATW ATW ATW	ATW AWC A AWC B ATW Preset 3200K Preset 5600K	ATW AWC A AWC B ATW	0 ATW 1 AWC A 2 AWC B 3 4 Preset 3200K 5 Preset 5600K 6 7 8 9 Var F Oter
Confirmation	ATW 1 2 AWC A 3 AWC B 4 Preset 3200K 5 Preset 5600K 6 7 8 9 Var	ATW AWC A AWC B Preset 3200K Preset 5600K	ATW AWC A AWC B	F Oter 0 ATW 1 2 AWB A 3 AWB B 4 Preset 3200K 5 Preset 5600K 6 7 8 9 Var F Other

▼osc

Parameter meaning var between control command and response for confirmation command

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

▼#QSV

UE150A	UE80	UE50	UE40,UE30	UR100	UE100	UE150, HE145	HR140
F= .7	7	F= .7	F= .7	F- 17	7	7	F= .7
[Data1]	[Data1]	[Data1]	[Data1]	[Data1]	[Data1]	[Data1]	[Data1]
Servo CPU	Servo CPU	Servo CPU	Servo CPU	Servo CPU	Servo CPU	Servo CPU	Servo CPU
Camera CPU	Camera CPU	Camera CPU	Camera CPU	Camera CPU	Camera CPU	Camera CPU	CameraMain CPU
ZYNQ Network	ZYNQ Network	reserve	reserve	ZYNQ Network	ZYNQ Network	COM FPGA	COM FPGA
Main/Network CPU	Main/Network CPU	Main/Network CPU	Main/Network CPU	Main/Network CPU	Main/Network CPU	Main/Network CPU	Network CPU
ZYNQ Logic	ZYNQ Logic	AVIO FPGA	reserve	ZYNQ Logic	ZYNQ Logic	AVIO FPGA	AVIO FPGA
ZYNQ R5T	reserve	reserve	reserve	reserve	ZYNQ R5T	Interface CPU	Interface CPU
Lens CPU	Lens CPU	Lens CPU	Lens CPU	Lens CPU	Lens CPU	Lens CPU	Lens FPGA
ZYNQ R5R	reserve	reserve	reserve	ZYNQ R5R	ZYNQ R5R	Interface EEPROM	Interface EEPROM
ZYNQ Enc	ZYNQ Enc	reserve	reserve	ZYNQ Enc	ZYNQ Enc	reserved	reserve
BE EEPROM	BE EEPROM	BE EEPROM	BE EEPROM	BE EEPROM	BE EEPROM	BE EEPROM	reserve
[Data2]	[Data2]	[Data2]	[Data2]	[Data2]	[Data2]	[Data2]	[Data2]
MAJOR VERSION	MAJOR VERSION	MAJOR VERSION	MAJOR VERSION	Major Version	Major Version	Major Version	Major Version
[Data3]	[Data3]	[Data3]	[Data3]	[Data3]	[Data3]	[Data3]	[Data3]
MINOR VERSION	MINOR VERSION	MINOR VERSION	MINOR VERSION	Minor Version	Minor Version	Minor Version	Minor Version
[Data4]	[Data4]	[Data4]	[Data4]	[Data4]	[Data4]	[Data4]	[Data4]
(Debug Build)	(Debug Build)	(Debug Build)	(Debug Build)	(Debug Build)	(Debug Build)	(Debug Build)	(Debug Build)
(Release Build)	(Release Build)	(Release Build)	(Release Build)	(Release Build)	(Release Build)	(Release Build)	(Release Build)
[Data5]	[Data5]	[Data5]	[Data5]	[Data5]	[Data5]	[Data5]	[Data5]
(REVISION)	(REVISION)	(REVISION)	(REVISION)	(REVISION)	(REVISION)	(REVISION)	(REVISION)
[data6]	[data6]	[data6]	[data6]	[data6]	[data6]	[data6]	[data6]
NTSC	NTSC	NTSC	NTSC	NTSC	NTSC	NTSC	NTSC
PAL	PAL	PAL	PAL	PAL	PAL	PAL	PAL
		_					· / · · <u>-</u>

▼#QSV(Continued)

UE70, HE75, HE70series	HE130	HE120	HE60	HE50
[Data1] Servo CPU Cam CPU FPGA BE CPU reserve Interface CPU reserve Interface EEPROM 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 [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) (Release Build) (Revision) [data6] NTSC PAL Other	[Data1] Pan Tilt CPU Camera CPU Camera FPGA Network CPU Out FPGA reserve reserve reserve reserve [Data2] Major Version [Data3] Minor Version [Data4] (Debug Build) (Release Build) [Data5] (Revision) [data6] NTSC PAL Other

▼#RER

The content of the error varies depending on the model

UE150A	UE160	UE80, UE50, E40,UE30	UE100	UE150, HE145
03h Motor Driver Error	00h No Error	00h No Error	03h Motor Driver Error	00h Normal
21h System Error	03h Motor Driver Error	03h Motor Driver Error	21h System Error	03h Motor Driver Error
22h Spec Limit Over	21h System Error	21h System Error	22h Spec Limit Over	04h Pan Sensor Error
24h NET Life-monitoring Error	22h Spec Limit Over	22h Spec Limit Over	24h NET Life-monitoring Error	05h Tilt Sensor Error
29h CAM Life-monitoring Error	25h BE Life-monitoring Error	24h NET Life-monitoring Error	29h CAM Life-monitoring Error	06h Controller RX Over run Error
31h Fan1 error	30h NET Life-monitoring Error	25h BE Life-monitoring Error	31h Fan1 error	07h Controller RX Framing Error
33h High Temp	31h Fan1 error	29h CAM Life-monitoring Error	33h High Temp	08h Network RX Over run Error
36h Low Temp	32h Fan2 error	31h Fan1 error(UE80)	36h Low Temp	09h Network RX Framing Error
40h Temp Sensor Error	33h High Temp	33h High Temp	40h Temp Sensor Error	17h Controller RX Command Buffer
41h Lens Initialize Error	36h Low Temp	36h Low Temp	41h Lens Initialize Error	Overflow
42h PT. Initialize Error	40h Temp Sensor Error	40h Temp Sensor Error	42h PT. Initialize Error	19h Network RX Command Buffer Overflow
43h PoE++ Software auth. Timeout	41h Lens Initialize Error	41h Lens Initialize Error	43h PoE++ Software auth. Timeout	21h System Error
50h MR Level Error	42h PT. Initialize Error	42h PT. Initialize Error	50h MR Level Error	22h Spec Limit Over
52h MR Offset Error	43h PoE++ Software auth. Timeout	43h PoE++ Software auth. Timeout (UE80)	52h MR Offset Error	23h FPGA Config Error
55h:PT. Gear Error	50h MR Level Error	45h PoE+ Software auth. Timeout	57h Gyro Error	24h NET Life-monitoring Error
57h Gyro Error	52h MR Offset Error	(UE50/UE40/UE30)	58h PT. Initialize Error	25h BE Life-monitoring Error
58h PT. Initialize Error	55h PT. Gear Error	47h USB Streaming Error	LIDAGO	26h IF/BE UART Buffer Overflow
	57h Gyro Error	(UE50/UE40/UE30)	UR100	27h IF/BE UART Framing Error
	58h PT. Initialize Error	50h MR Level Error	03h Motor Driver Error	28h IF/BE UART Buffer Overflow
	60h Update Firmware Error	52h MR Offset Error	21h System Error	29h CAM Life-monitoring Error
	61h Update Hardware Error	57h Gyro Error	22h Spec Limit Over	31h Fan1 error
	62h Update Error	58h PT. Initialize Error	24h NET Life-monitoring Error	32h Fan2 error
	63h Update Fan Error		25h BE Life-monitoring Error	33h High Temp
			29h CAM Life-monitoring Error	36h Low Temp
			31h Fan1 error	40h Temp Sensor Error
			32h Fan2 error	41h Lens Initialize Error
			33h High Temp	42h PT. Initialize Error
			36h Low Temp	50h:MR Level Error
			39h Wiper Error	52h:MR Offset Error
			40h Temp Sensor Error	53h: Origin Offset Error
			41h Lens Initialize Error	54h:Angle MR Sensor Error
			42h PT. Initialize Error	55h:PT. Gear Error
			43h PoE++ Software auth. Timeout	56h:Motor Disconnect Error
			50h MR Level Error	
			52h MR Offset Error	
			57h Gyro Error	
			58h PT. Initialize Error	

▼#RER(Continued)

The content of the error varies depending on the model

he content of the error varies depending on the			
HR140	UE70series, HE42 Series, HE40 Series	HE120	HE50
00h : Normal	00h Normal(No Error)	00h: Normal	00h : Normal
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 IF/FPGA UART Over run Error	06h:Controller RX Over run Error	06h:Controller RX Over run Error
07h:Controller RX Framing Error	07h IF/FPGA UART Framing Error	07h:Controller RX Framing Error	07h:Controller RX Framing Error
08h: Network RX Over run Error	08h IF/NET UART Over run Error	08h:Network RX Over run Error	08h:Network RX Over run Error
09h: Network RX Framing Error	09h IF/NET UART Framing Error	09h:Network RX Framing Error	09h:Network RX Framing Error
17h:Controller RX Command Buffer	17h IF/FPGA UART Buffer Overflow	17h:Controller RX Command Buffer	17h:Controller RX Command Buffer
Overflow	19h IF/NET UART Buffer Overflow	Overflow	Overflow
19h: Network RX Command Buffer Overflow	21h System Error(IF/SERVO Error)	19h:Network RX Command Buffer Overflow	19h:Network RX Command Buffer
21h:System Error	22h PT Limit Over	21h:System Error	Overflow
22h:Spec Limit Over	24h NET Life-monitoring Error	22h:Spec Limit Over	21h:System Error
23h: FPGA Config Error	25h BE Life-monitoring Error	23h: FPGA Config Error	22h:Spec Limit Over
25h: CAMERA communication Error	26h IF/BE UART Buffer Overflow	24h:Network communication Error	23h:FPGA Config Error
26h: CAMERA RX Over run Error	27h IF/BE UART Framing Error	25h:Lens Initialize Error	24h: Network communication Error
27h: CAMERA RX Framing Error	28h IF/BE UART Buffer Overflow		30h:Lvds_Adjustmet_NG
28h: CAMERA RX Command Buffer Overflow	29h CAM Life-monitoring Error		31h:Bar Signal Check NG
31h:Fan1 Error		HE130	HE60
32h:Fan2 Error		00h : Normal	00h : Normal
33h:High Temp		03h:Motor Driver Error	03h:Motor Driver Error
33h:High Temp 36h:Low Temp		03h:Motor Driver Error 04h:Pan Sensor Error	03h:Motor Driver Error 04h:Pan Sensor Error
33h: High Temp 36h: Low Temp 39h: Wiper Error		03h: Motor Driver Error 04h: Pan Sensor Error 05h: Tilt Sensor Error	03h∶Motor Driver Error 04h∶Pan Sensor Error 05h∶Tilt Sensor Error
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error		03h: Motor Driver Error 04h: Pan Sensor Error 05h: Tilt Sensor Error 06h: Controller RX Over run Error	03h∶Motor Driver Error 04h∶Pan Sensor Error 05h∶Tilt Sensor Error 06h∶Controller RX Over run Error
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error		03h: Motor Driver Error 04h: Pan Sensor Error 05h: Tilt Sensor Error 06h: Controller RX Over run Error 07h: Controller RX Framing Error	03h: Motor Driver Error 04h: Pan Sensor Error 05h: Tilt Sensor Error 06h: Controller RX Over run Error 07h: Controller RX Framing Error
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error 52h: MR Offset Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error 52h: MR Offset Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error 52h: MR Offset Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error 52h: MR Offset Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error 52h: MR Offset Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error 52h: MR Offset Error		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	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 17h: Controller RX Command Buffer Overflow 19h: Network RX Command Buffer Overflow 21h: System Error 22h: Spec Limit Over 23h: FPGA Config Error
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error 52h: MR Offset Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error 52h: MR Offset Error		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 RX Over run Error 27h: CAMERA RX Framing Error 28h: CAMERA RX Command Buffer	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error 52h: MR Offset Error		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	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
33h: High Temp 36h: Low Temp 39h: Wiper Error 40h: Temp Sensor Error 41h Lens Initialize Error 42h PT. Initialize Error 50h: MR Level Error 51h: GYRO Initial Error 52h: MR Offset Error		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 RX Over run Error 27h: CAMERA RX Framing Error 28h: CAMERA RX Command Buffer	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

Parameter meaning var between control command and response for confirmation command

UE160

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

UE150A, UE80, UE50, UE40, UE30, UR100, UE100, UE150, HE145, HR140, UE70series, HE42series, HE40series, HE130, HE120, HE60, HE50

	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	

UE4

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

UE20/HE20

▼#0

	Control		Confirmation
		0	Scene1
	Scene1	1	Scene2
	Scene2	2	Full Auto
Γ	Full Auto	3	

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	
		_	

Parameter meaning var between control command and response for confirmation command

I		Control		Confirmation
	0	Power Off	0	Power Off
	1	Power On	1	Power On
ı	3		3	Starting

UB50,UB10

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