PROTOCOL of CONVERTIBLE CAMERA and PAN/TILT SYSTEM Ver3.05(Apr. 27 2020)

AW-E300A/AW-E600/AW-E800/AW-E800A/AW-E350 AW-E650/AW-E655/AW-E750/AW-E860/AW-HE100 AK-HC1500/AK-HC1800/AW-HE870 AW-PH100/AW-PH300A/AW-PH500/AW-PH600/AW-PH350 AW-PH400(with AW-RP400/IF400)/AW-PH360/AW-PH650/AW-PH405 AW-HE130/AW-HE60/AW-HE120/AW-HE50 AW-HE40/AW-HE65/AW-HE70/AW-UE70AW-HE42/AW-HE68/AW-HE75 AK-UB300/AW-HR140/AW-UE150/UE155/UN145

Specifications are subject to change without notice.

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Camera Control Protocol

This is a program to control Panasonic Convertible Camera system from PC by serial communication.

Method	Half Duplex
Commnunication Speed	9600bps
Data bit	8bit
Stop bit	1bit
Prity	None
Flow contorol	None

(Electrical Specification)

Compatible with RS422 2line system(TXD/send, RXD/Recieve)

(Process)

- (1) PC ── Command ─→ CAMERA
- (2) CAMERA ACK(H'06) → PC
- (3) CAMERA Processes "Command"
- (4) CAMERA Command' \rightarrow PC

Normally it is processed as mentioned above,but in case of error,it ends by replying error code(*1) in (4). Command and Command' are not always the same. Camera does not accept a command unless command process finishes and returns the return code

(*1)Error code

Item	Error code	Contents
Unsupported	[STX]ER1:***[ETX]	The Command is not supported by CAMERA.
System busy	[STX]ER2:***[ETX]	CAMERA can not process the command for running the other processing.
Out of range	[STX]ER3:***[ETX]	Data is out of range.

*** : Command name (maximum 3 letters.)

<Basic pattern of Command>

Header is [STX] (H'02) and Delimiter for [ETX] (H'03), and Command of ASCII and / or Data can be inserted in between. Division of Command and Data is ": (H'3A)".

There are 2 kinds of Commands , one is for letters and the other for numbers. In total , there are 37 kinds of ASCII code code 0(H'30) to 9(H'39), A(H'41) to Z(H'5A), /(H'2F). For Command of (1) to (6) and (10) PC -> Camera(To), Camera -> PC(From) are the same in both ways, but for (7),(8) and (11) it is different between (To) and (From).

(1)Pattern 1 (For the Camera Operation) There is no Data , only Command.

[STX]	0	?	S	[ETX]
H'02	H'4F	H'**	H'53	H'03

(2)Pattern 2 (Camera mode setting)

In order of Command, ":", Data. Data length id different by each Command and maximum 3 letters.



Caution : Data length is fixed for each Command and not able to decrease.

(3)Pattern 3 (Selection of Scene) In order of Command, ":", Data. Data length=1 Byte
[STX] X S F : ? [ETX]
H'02 H'58 H'53 H'46 H'3A H'** H'03
(4)Pattern 4 (Monitoring) In order of Command, ":", Data. Data length=1 Byte

[STX] D ? ? : ? [ETX] H'02 H'44 H'** H'** H'3A H'** H'03 (5)Pattern 5 (Other Menus) In order of Command, ":", Number Command(2 Bytes), ":", Data, Data length=2 Bytes, [STX] 0 S D • ? ? • ? ? [ETX] H'02 H'4F H'53 H'44 H'3A H'** H'** H'3A H'** H'** H'03 In this pattern, numbers at rear part of command (6th and 7th letters) are the command and Data follows by 2bytes (9th and 10th letters) (6)Pattern 6 (Questions to Camera) There is only Command, not Data ? [STX] Q ? [ETX] H'02 H'51 H'** H'** H'03 This Command requires the programmed number of the Camera and Camera returns adding Data. Data is 2 Bytes but there are same exceptions. It is specified as $Q(H'51) \rightarrow O(H'4F)$. (7)Pattern 7 (Questions to Camera 2) In order of Command, ":", number of Command. No Data. Command from Camera is with Data. [STX] Q S D ? ? [ETX] . H'02 H'51 H'53 H'44 H'3A H'** H'** H'03 This Command also requires the programmed number of the Camera and the Command is converted into numbers. It can be programmed only by Camera User Mode and is Data length, which Camera returns is 2 Bytes. (There are same exceptions.) It is $Q(H'51) \rightarrow O(H'4F)$ same as (7). When Camera receives unprocessable number Command, it returns as Data = number Command. a) PC -> CAMERA [STX] Q S D : 1 4 [ETX] H'02 H'51 H'53 H'3A H'31 H'34 H'03 H'44 b) CAMERA -> PC [STX] S 4 [ETX] 0 D 1 4 1 H'4F H'53 H'44 H'3A H'31 H'34 H'3A H'31 H'34 H'03 H'02 (8)Pattern 8 (Related to Contact Closer P/T) There is only Command, not Data [STX] ? [ETX] н ? H'02 H'** H'03 H'48 H'** Command for Lens I/F Card (AW-PB308) and control of lens for AW-E655. Camera repeats the same Command.

		I	I			Nota Contanta												n	arko								
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol	E300/A	E600	E800 E80	DOA E350	E650	E655	E750 E8	860 HE	E100 HC1500	HC180	0 HE8	870 HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE /HE58/HE35/HE38/H 8/HN40/HN65/HN70	18 13 UE70/UN70/UE65/UE6	3 HE75/HE42/HE68	UB300	HR140	UE150/UE155/U
MODEL NUMBER	_		QID	OID:[Data]	00 01 02 03	AW-E300 AW-E300P AW-E300E AW-E600 AW-E600P AW-E600E AW-E800 AW-E800P AW-E800P AW-E800E Returns model No. by ASCII Ex. OID:AW E800P	to Ver.187 - from Ver.188	to fr Ve	o Ver.055 rom Ver.00 er.056	01				 V1. 00	DL01 Ver.1.00 -00-0.00	Ver. 1.00 -00-0.00) V1. 00L	L01 V1.00	 V3. 00	 V1. 00	 V1. 00	 V1. 00	 V1. 00	V1. 00	 V7. 00	 V1. 00	 V1. 00
SOFTWARE VERSION	-		QSV	OSV:[Data]		Software Version	Ver.001							V1. 00	DL01 Ver.1.00 -00-0.00	Ver. 1.00 -00-0.00) V1.00L	L01 V1.00	V3. 00	V1.00	V1. 00	V1. 00	V1. 00	V1. 00		V1.00	V1. 00
AWC/AWB SET	OWS	OWS ER3:OWS ER2:OWS				AWC/AWB Start Response AWC/AWC OK Command AWC/AWB NG returns whe AWC/AWB NG (busy) AWC/AWB fir	Ver.001 sh							V1. 00	DL01 Ver.1.00 -00-0.00	Ver. 1. 00 -00-0. 00) V1.00L	L01 V1.00	V3. 00	V1.00	V1. 00	V1.00	V1. 00	V1. 00	V7. 00	V1.00	V1.00
ABC/ABB SET	OAS	OAS ER3:OAS ER2:OAS				ABC/ABB Start Response ABC/ABB OK Command ABC/ABB NG ABC/ABB NG(busy) ABC/ABB fir	Ver.001 sh							V1.00	DL01 Ver.1.00 -00-0.00	Ver.1.00 -00-0.00) V1.00L)	L01		V1. 00	V1. 00	V1.00	V1. 00	V1. 00	V7. 00	V1. 00	V1. 00
AWC MODE	OAW:	Data]	QAW	OAW:[Data]	0 1 2 3 4 5 6 7 8 9	ATWATWBe careful because DatAWC Abecause DatAWC BAWC Aof control questionATWAWC BquestionPRESET 3200KPRESET 3200Kis differerPRESET 5600KPRESET 5600KPRESET 5600KPRESET 4500KPRESET 4500KPRESET 4500KPRESET 6000KPRESET 6000KPRESET 2800KVARVARVAR	Ver.001 ind							V1.00	DL01		V1. 00L	LO1 V1.00 supports only ATW,AWC A,AWC B	V3.00 supports only ATW,AWC A,AWC B	V1.00 supports only ATW AWC A AWC B PRESET 3200K PRESET 5600K	V1.00 supports only ATW AWC A AWC B PRESET 3200K PRESET 5600K VAR	V1.00 supports only ATW AWC A AWC B PRESET 3200K PRESET 5600K VAR	V1.00 supports only ATW AWC A AWC B PRESET 3200K PRESET 5600K VAR	V1.00 supports only ATW AWC A AWC B PRESET 3200K PRESET 5600K VAR		V1.00 supports only ATW AWC A AWC B PRESET 3200K PRESET 5600K VAR	V1.00 supports only ATW AWC A AWC B PRESET 3200K PRESET 5600K VAR
DETAIL	ODT :	Data]	QDT	ODT:[Data]	0 1 2 0 1 2	OFF LOW HIGH <u>HC1500, HC1800, HE130, UB300, HR140, UE150</u> OFF ON ON	Ver.001							V1. 00	DL01 Ver. 1. 00 -00-0. 00	Ver. 1. 00 -00-0. 00) V1.00L	L01 V1.00	V3. 00	V1.00	V1. 00	V1.00	V1.00	V1. 00	V7. 00	V1. 00	V1. 00
HD DETAIL	OHD :	[Data]	QHD	OHD:[Data]	0 1 2	<u>AW-HE870</u> OFF LOW HIGH											V1.00L Only L mode	LO1 User									
GAIN UP	OGU:	Data]	QGU	OGU: [Data]	00h 01h 08h - 11h - 1Ah - 26h 27h 28h 80h 08h - 11h - 1Ah - 38h 80h 02h - 1Ah 80h 08 - 14 15 16 17 18 19 1A 80	AGC Low AGC High OdB - 9dB - 18dB - 30dB N/Eye Low N/Eye Low N/Eye High AGC 0N <u>AW-HE130, HE40, HE70, HR140, UE150</u> OdB - 9dB - 9dB - 9dB - 9dB - 18dB AGC 0N <u>AW-HE370</u> -6dB - 18dB AGC 0N <u>AW-HE100</u> OdB - 12dB ER3 ER3 ER3 ER3 ER3 ER3 ER3 BdB AGC 0N	above 18dB, from Ver.188	above 18dB, from Ver.188	above Ver. 18dB, from Ver.056	001 Ver.001 AGC Low AGC High if use A command	-> Max Gain=1 h -> Max Gain=1 AGC ON, Max Ga (OSD:69).	18dB =30dB ain of AGC is s	set up by the AG	C MAX	DL01		V1. 00L	L01 V1.00 supports only 08(0dB)-1A(18dB), 80(AGC ON)	V3.00 supports only 08(0dB)-1A(18dB 80(AGC ON)	V1.00 supports only 08(0dB)-1A(18dB) 80(AGC ON)	V1.00 supports only 08(0dB)-2C(36dB), 80(AGC ON)	V1.00 supports only 08h:0dB-38h:48dB 80h:AGC ON Use only 3dB Step.	V1.00 supports only 08h:0dB-38h:48dB 80h:AGC ON Use only 3dB Step.	V1.00 supports only O8h:OdB-38h:48dB 80h:AGC ON Use only 3dB Step.		V1.00 supports only 08(0dB)-32(42dB), 80(AGC ON)	V1.00 supports only 08(0dB)-32(42c 80(AGC ON)
SHUTTER	OSH:	Data]	QSH	OSH: [Data]	0h 1h 2h 3h 4h 5h 6h 7h 8h 9h Ah Bh Ch Dh Eh Fh Fh	OFF 1/50 1/100 (NSTC) , 1/120 (PAL) 1/120 (NTSC) , 1/100 (PAL) 1/250 1/500 1/1000 1/2000 1/4000 1/10000 Synchro-Scan ELC (AUTO ND) 1/24 1/25 1/30	Ver. 001							V1. 00	DL01		V1. 00L	L01 V1.00 supports only 0(OFF), 3(1/100 NTSC) (1/120 PAL), 5(1/250) - B(Synchro-Scan)	V3.00 supports only 0(OFF), 3(1/100 NTSC) (1/120 PAL), 5(1/250) - B(Synchro-Scan)	V1.00 supports only 0(OFF), 3(1/100 NTSC) (1/120 PAL), 5(1/250) - C(ELC)	V1.00 (59.94p/59.94i) 0(0FF) 3(1/100) 4(1/120) 5(1/250) - C(ELC) (29.97p) 0(0FF) 2(1/60) 4(1/120) 5(1/250) - C(ELC) F(1/30) (23.98p) 0(0FF) 2(1/60) 4(1/120) 5(1/250) - D(1/24) (50p/50i) 0(0FF) 2(1/60) 3(1/120) 5(1/250) - C(ELC) (25p) 0(0FF) 2(1/60) 3(1/120) 5(1/250) - C(ELC) (25p) 0(0FF) 2(1/60) 3(1/120) 5(1/250) - C(ELC) (25p) 0(0FF) 2(1/60) 3(1/120) 5(1/250) -	V1.00 supports only 0(OFF), 3(1/100 NTSC) (1/120 PAL), 5(1/250) - B(Synchro-Scan)	V1.00 supports only 0(OFF), 3(1/100 NTSC) (1/120 PAL), 5(1/250) - B(Synchro-Scan)	V1.00 supports only 0(OFF), 3(1/100 NTSC) (1/120 PAL), 5(1/250) - B(Synchro-Scan)		V1.00 (59.94p/59.94i) 0(0FF) 3(1/100) 4(1/120) 5(1/250) - C(ELC) (29.97p) 0(0FF) 2(1/60) 4(1/120) 5(1/250) - C(ELC) F(1/30) (23.98p) 0(0FF) 2(1/60) 4(1/120) 5(1/250) - D(1/24) (50p/50i) 0(0FF) 2(1/60) 3(1/120) 5(1/250) - C(ELC) (25p) 0(0FF) 2(1/60) 3(1/120) 5(1/250) - C(ELC) (25p) 0(0FF) 2(1/60) 3(1/120) 5(1/250) - C(ELC) (25p) 0(0FF) 2(1/60) 3(1/120) 5(1/250) - C(ELC) E(1/25)	

					T	Data Contents										Remarks								
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol	mation	E300/A E6	600 E800 E800A	E350 E650	E655 E750	0 E860 HE100	HC1500	HC1800	HE870 HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE4 /HE58/HE35/HE38/HN	8 3 UE70/UN70/UE65/UE6	3 HE75/HE42/HE68	UB300	HR140	UE150/UE155/
					001h 	<u>N. Model (59Hz)</u> 60. 34Hz - 15. 75kHz <u>E. MC. Model (50Hz)</u> 50. 24Hz - 15. 63kHz <u>AK-HC1500/HC1800 (60Hz)</u> 60. 32Hz/60. 32Hz		Ver.001				V1.00L0 Only Uso mode	Ver.1.00 r -00-0.00	Ver. 1.00 -00-0.00	V1. 00L01 (N Model) (N Model) 001h (61. 19 Hz) - 109h (1466 Hz) (E, MC Model) 00FFh (644. 25Hz) - (E, MC Model) 001h (50. 16Hz) - (FFh (542. 42Hz) 00FFh (542. 42Hz) 001h (50. 99	V3. 00 (59Hz) 001h (60. 17Hz) – 0FFh (644. 25Hz) (50Hz) 001h (50. 16Hz) – 0FFh (542. 42Hz)	V1. 00 (59Hz) 001h (60. 17Hz) - 0FFh (646. 21Hz) (50Hz) 001h (50. 19Hz) - 0FFh (537. 13Hz)	V1. 00 (59Hz) 001h (60. 15Hz) – 0FFh (642. 21Hz) (50Hz) 001h (50. 15Hz) – 0FFh (535. 71Hz)	8/HN40/HN65/HN70 V1. 00 (59. 94Hz) 001h (59. 94Hz) - 0FFh (660. 09Hz) (50Hz 001h (50. 00Hz) - 0FFh (570. 12Hz)	V1. 00 (59. 94Hz) 001h (59. 94Hz) - 0FFh (660. 09Hz) (50Hz 001h (50. 00Hz) - 0FFh (570. 12Hz)	V1. 00 (59. 94Hz) 001h (59. 94Hz) - 0FFh (660. 09Hz) (50Hz 001h (50. 00Hz) - 0FFh (570. 12Hz)		V1. 00 (59Hz) 001h (60. 15Hz) – 0FFh (642. 21Hz) (50Hz) 001h (50. 15Hz) – 0FFh (535. 71Hz)	
SYNCHRO SCAN	OMS	[Data]	QMS	OMS:[Data]	8DFh 721h 8DFh 721h 8DFh 001h 1ABh 001h 1C2h	150. OHz/149. 2Hz <u>AK-HC1500/HC1800 (50Hz)</u> 50. 27Hz/50. 27Hz 125. OHz/124. 3Hz <u>AK-HC1500. HC1800 (FILM MENU)</u> 358. 1deg 144. 0deg <u>HE-100N</u> 60Hz 248. 8Hz <u>HE-100E. MC</u> 50. OHz 250. OHz									Hz) - 10Dh (1478 Hz)									
FIELD/FRAME					0	Field Frame1	Only User Mode	Ver.001																
V. RESOLUTION	OFR	[Data]	QFF	OFF:[Data]	2 0 1 2 0 1	Frame2 Normal Normal (Fine) Fine FIne Manual Auto	Only Halogen,Fluore scent,Outdoor mode	Ver.001				V1. 00L0	Ver. 1.00	Ver. 1.00	V1. 00L01 V1. 00	 V3. 00	 V1. 00	 V1. 00	V1. 00	 V1. 00	V1.00	 V7. 00	 	V1. 00
IRIS AUTO/MANUAL	ORS	[Data]	QRS	ORS:[Data]																				
MANUAL IRIS VOLUME	ORV	[Data]	QRV	ORV:[Data]	000h _ 3FFh	close _ open		Ver.001				V1.00L0	Ver.1.00 -00-0.00	Ver.1.00 -00-0.00	V1.00L01 V1.00	V3. 00	V1.00	V1.00	V1.00	V1. 00	V1.00	V7. 00	V1.00	V1.00
PICTURE LEVEL A. IRIS LEVEL IRIS DEESET	OSD : 4	8:[Data]	QSD : 48	OSD:48:[Data]	00h - 31h 32h 33h - 64h 00h - 64h	-50 - -1 0 +1 - +50 <u>AK-HC1500, HC1800, UB300</u> 0 - 100		from Ver.188	from Ver.001 Ver.056			V1. 00L0	Ver.1.00 -00-0.00	Ver.1.00 -00-0.00	V1.00L01 V1.00 Data/10	V3.00 Data/10	V1.00 Data/5	V1. 00	V1.00 Data/5	V1.00 Data/5	V1.00 Data/5	V7. 00	V1.00	V1. 00
					00-2Eh - 31h 32h 33h - 36-64h - 00h - 31h 32h 33h - 33h -	<u>AW-HE100</u> -4 - -1 0 +1 - +4 P50 - P1 0 A1 -		from Ver.188	from Ver.001 Ver.056				Ver. 1.00 -00-0.00	Ver. 1. 00 -00-0. 00	V1. 00L01									
A. IRIS PEAK/AVG	OPV	[Data]	QPA	OPA:[Data]	64h 00h - 64h 0 1	A50 <u>AK-HC1500. HC1800</u> 0 - 100 ALL Center Lar Out		Ver.001							V1. 00L01									
A. IRIS AREA	ORA	[Data]	QAR	OAR:[Data]	5 6 7	Bottom Cut R/L Cut		V 001																
NEGA/POSI R PEDESTAL	ONP	[Data] [Data]	QNP QRD	ONP:[Data] ORD:[Data]	0 1 00h - 1Eh - 3Ch	-30 -0 		Ver. 001	Ve Da	er.001 ata x 5			Ver. 1. 00- 00-0. 00 Data x 3	 Ver.1.00- 00-0.00 Data x 3	 V1.00L01 Data x 5		 V1.00 Data*5	 V1.00 Data*5 supports only OA(-100) - 32(+100)					V1.00 Data*5 supports only OA(-100) - 32(+100)	
B PEDESTAL	OBD	[Data]	QBD	OBD:[Data]	00h - 1Eh - 3Ch	-30 - 0 - +30		Ver.001	Ve Da	er.001 ata x 5			Ver.1.00- 00-0.00 Data x 3	Ver.1.00- 00-0.00 Data x 3	V1.00L01 Data x 5		V1.00 Data*5	V1.00 Data*5 supports only OA(-100) - 32(+100)					V1.00 Data*5 supports only OA(-100) - 32(+100)	
R GAIN	ORG	[Data]	QGR	OGR:[Data]	00h - 1Eh - 3Ch	-30 - 0 - +30		Ver.001	Ve Da	er.001 ata x 5		V1. 00L0	Ver.1.00- 00-0.00 Data x 3	Ver.1.00- 00-0.00 Data x 3	V1.00L01 V2.00 Data x 5	V3.00	V1.00 Data*5	V1.00 Data*5	V1. 00	V1.00	V1.00		V1.00 Data*5	
B GAIN	OBG	[Data]	QGB	OGB:[Data]	00h - 1Eh - 3Ch	-30 - 0 - +30		Ver.001	Ve Da	er.001 ata x 5		V1. 00L0	Ver.1.00- 00-0.00 Data x 3	Ver.1.00- 00-0.00 Data x 3	V1.00L01 V 2.00 Data x 5	V3. 00	V1.00 Data*5	V1.00 Data*5	V1. 00	V1.00	V1.00		V1.00 Data*5	
T PEDESTAL	OTD	[Data]	QTD	OTD:[Data]	00h - 1Eh - 3Ch	-30 - 0 - +30		Ver.001	Ve Da	er.001 ata x 5		V1. 00L0	Ver.1.00- 00-0.00 Data x 6	Ver.1.00- 00-0.00 Data x 6	V1.00L01 V1.00 Data x 5 Data/3	V3.00 Data/3	V1.00 Data*5	V1.00 Data*5	V1.00 Data/3	V1.00 Data/3	V1.00 Data/3		V1.00 Data*5	
H PHASE	OHP	[Data]	QHP	OHP:[Data]	000h _ 3FFh	-206 - +49		Ver.001	1			V1. 00L0			V1. 00L01 V1. 00	V3. 00	V1.00	V1. 00		V1. 00	V1.00		V1. 00	V1.00
SC COARSE	OSC	[Data]	QSC	OSC:[Data]	0 1 2 3 4 <u>AW-HE870</u> 5 6 7 8	2 (90deg) 3 (180deg) 1 (0deg) 4 (270deg) 2 (90deg) 1 (0deg) 3 (180deg) 4 (270deg) 4 (270deg) 4 (270deg) 4 (270deg) 4 (270deg) 4 (270deg) 4 (270deg) 45deg (HE870) 45deg 135deg (HE870) 135deg 225deg (HE870) 225deg 315deg (HE870) 315deg	Be careful because Data of control and question is different.	Ver.001				V1.00LO support only Control Command			V1. 00L01 V1. 00	V3.00								

ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Dat Control and Response to contol	a Contents Response to Confirmat	ion	E300/A E60	0 E800	E800A E350	E650	E655 E	750 E860	HE100	HC1500	HC1800	HE870	Re HE50	HE60	HE120	HE130	HE40/HE65/HE70/ /HE58/HE35/HE38 8/HN40/HN65/H	HE48 /HN3 I70	3 HE75/HE42/HE68	UB300	HR140	UE150/UE155/
SC FINE	OSN: [1	Data]	QSN	OSN:[Data]	000h 001h 002h - 200h - 3FFh <u>AW-HE870</u> 000h - 007h 008h - 200h - 3FBh 3FCh	<u>AW-</u> ł	-511 -511 -511 -511 - 0 - +511 <u>E100/HE870</u> -127 -127 -126 - - +126 +127 -	(AW-HE870) One value of "Data Contents" is added by four "Data" counts.	Ver.001						V1. 00L01			V1.00L01	V1. 00	V3. 00								
CHROMA LEVEL	OCG : [1	Data]	QCG	OCG:[Data]	00 - 03 - 06		-3 - 0 - +3		Ver.001						V1. 00L01			V1. 00L01	V1. 00	V3.00	V1. 00		V1. 00	V1. 00	V1.00			
SCENE FILE	XSF : [1	Data]	QSF	OSF:[Data]	0 1 2 3 4 5 6 7 0 1 2 3 4 0 1 2 3 4 5 6 7 8 9	Halogen Fluorescent Outdoor User <u>HC1500. HC1800</u> PRESET USER1 USER2 CURRENT <u>AK-UB300</u> - CURRENT SCENE1 SCENE2 SCENE3 SCENE4 SCENE5 SCENE5 SCENE6 SCENE7 SCENE8	Halogen Fluorescent Outdoor User Halogen Fluorescent Outdoor User <u>HC1500, HC1800</u> PRESET USER1 USER2 CURRENT SCENE1 SCENE2 SCENE3 SCENE4 SCENE5 SCENE6 SCENE7 SCENE8 -	Be careful because Data of control and question is different.	Ver.001						V1. 00L01	Ver.1.00 -00-0.00	Ver.1.00 -00-0.00	V1. 00L01	V1.00 supports only Halogen=MANUAL1, Fluorescent=MANUAL2 Outdoor=MANUAL3, User=FULLAUTO,	V3.00 supports only Halogen=MANUAL1, Fluorescent=MANUAL2, Outdoor=MANUAL3, User=FULLAUT0,	V1.00 supports only Halogen=Scene1, Fluorescent=Scene2 Outdoor=Scene3, User=Scene4,	V1.00 supports only Halogen=Scene1, Fluorescent=Scene3, User=Scene4,	V1.00 supports only Halogen=MANUAL1 e2, Fluorescent=MAN , Outdoor=MANUAL3 User=FULLAUTO,	V1.00 supports only Halogen=MANUAL1, Fluorescent=MANUAL , Outdoor=MANUAL3, User=FULLAUTO,	V1.00 supports only Halogen=MANUAL1, 2 Fluorescent=MANUAL , Outdoor=MANUAL3, User=FULLAUT0,	2	V1.00 supports only Halogen=Scene1, Fluorescent=Scene3, User=Scene4,	V1.00 supports only Halogen=Scene1 2, Fluorescent=Sc Outdoor=Scene3 User=Scene4,
GAMMA	0SD : 00 :	:[Data]	QSD:00	OSD:00:[Data]	00h - 0Ah - 14h		0. 35 _ 0. 45 _ 0. 55		Ver.001 Only User mode									V1.00L01 Only User mode										
KNEE POINT	0SD:08:	:[Data]	QSD:08	OSD:08[Data]	FFh 00h – 0Ah 0Bh	 Dynamic 88% - 98%	Dynamic 88% - 98% 	Be careful because Data of control and question is different.	from Ver.188 Only User mode d	from Ver Ver.056 Onl Only User mode	.001 y User mode							V1.00L01 Only User mode										
WHITE CLIP	OSD:09:	:[Data]	QSD:09	OSD:09:[Data]	00h _ 0Fh		95% - 110%		from Ver.188 Only User mode	from Ver Ver.056 Onl Only User mode	.001 y User mode							V1.00L01 Only User mode										
H.DTL LEVEL H	OSD:0A:	:[Data]	QSD:0A	OSD:OA:[Data]	01h _ 3Fh		1 - 63		from Ver.188 Only User mode	from Ver Ver.056 Onl Only User mode	.001 y User mode							V1.00L01 Only User mode			V1.00 Support Only 02(0)-3F(63)							
HD H.DTL LEVEL H	0SD : 0B :	:[Data]	QSD:0B	OSD:OB:[Data]	01h 		1 - 63 1			from Ver								V1.00L01 Only User mode V1.00L01			 V1. 00							
V DTL LEVEL H	OSD : OE :	:[Data]	QSD:0E	OSD:OE:[Data]	1Fh01h01h01		31		Only User mode	Ver.056 Onl Only User mode	y User mode							Only User mode V1 00101			Support Only 02(0)-1F(32)							
HD V DTL LEVEL H	OSD:OF:	:[Data]	QSD:OF	OSD:OF:[Data]	1Fh 00h				from Ver.188	from Ver	. 001							Only User mode V1.00L01			V1.00							
H. DTL LEVEL L	OSD:12:	:[Data]	QSD:12	OSD:12:[Data]	3Eh		- 62 0			Only User mode	y user mode							V1.00L01			01 (0) -3E (62)							
HD H. DTL LEVEL L	OSD:13: OSD:16:	:[Data] :[Data]	QSD:13 QSD:16	OSD:13:[Data] OSD:16:[Data]	3Eh 00h - 1Eh 00h - 07h - 0Eh		62 0 - 30 <u>W-HE100</u> -7 - 0 - +7		from Ver.188 Only User mode	from Ver Ver.056 Onl Only User mode	.001 y User mode				V1.00L01			mode V1.00L01 Only User mode			V1.00 Support Only 01(0)-1E(30)							
HD V DTL LEVEL L	OSD:17:	:[Data]	QSD:17	OSD:17:[Data]	00h - 1Eh		0 - 30											V1.00L01 Only User mode										
DETAIL BAND	OSD : 1E :	:[Data]	QSD:1E	OSD:1E[Data]	01 _ 05		01 - 05		from Ver.188 Only User mode	from Ver Ver.056 Onl Only User	r.001 y User mode							V1.00L01 Only User mode			V1.00							
HD DETAIL BAND	OSD:1F:	:[Data]	QSD:1F	OSD:1F[Data]	01 - 05 00h - 3Ch	<u>AK-HC</u>	01 - 05 0 - 60 1500. HC1800		from Ver.188 Only User mode	from Ver Ver.056 Onl Only User mode	.001 y User mode				V1.00L01 Only User mode			V1.00L01 Only User mode V1.00L01 Only User mode			 V1.00 Support Only 00(0)-07(7)	V1. 00				 V7. 00	 V1. 00	
NOISE SUPPRESS /CRISP	OSD:22:	:[Data]	QSD : 22	OSD:22:[Data]	00h - 1Fh <u>AK-UB300</u> 00h - 3Fh		0 - 31 <u>IK-UB300</u> 0 - 63																					
HD NOISE SUPPRESS /CRISP	0SD : 23 :	[Data]	QSD:23	OSD:23:[Data]	00h _ 0Ah		<u>W-HE870</u> 0 - 10											V1.00L01 Only User mode										

/UN145 ene2,

												D I								
ITEM	Control Command Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol	E300/A E600	E800 E800A E350 E650	E655 E750 E860 HE100	HC1500	HC1800	0 HE870 HE50	HE60	HE120	HE130	HE40/HE65/HE70 /HE58/HE35/HE3	/HE48 8/HN3 UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/U
				00h _	00%	from Ver.188 Only User mode	from Ver.001 Ver.056 Only User mode				V1.00L01 Only User				8/HN40/HN65/H	HN70		V7. 00		
				19h AK-HC1500, HC1800	25% AK-HC1500, HC1800	,	Only User mode				mode									
				00h 0Fh	0% _ 15%															
LEVEL DEPENDENT	OSD:26:[Data]	QSD : 26	OSD:26:[Data]	<u>AK-HC3800</u> 00	<u>AK-HC3800</u> 0%															
				- 1E	30%															
				<u>AK-UB300</u> 00h -	<u>AK-UB300</u> 00 -															
				0Fh	15															
HD LEVEL DEPENDENT	OSD:27:[Data]	QSD:27	OSD:27:[Data]	00h	<u>AW-HE870</u> 00% 						Only User mode									
				00h	00	from Ver.188	from Ver.001				V1.00L01									
CHROMA DETAIL	OSD:2A:[Data]	QSD:2A	OSD:2A:[Data]	_ 0Fh	- 15	Only User mode	Ver.056 Only User mode Only User mode				Only User mode									
HD CHROMA DETAIL	OSD:2B:[Data]	QSD:2B	OSD:2B:[Data]	00h 	00						V1.00L01 Only User									
				00	0						V1. 00L01									
HD DARK DETAIL	OSD:2D:[Data]	0SD : 2D	OSD:2D:[Data]	05 05	5						mode									
				00 - 07	0 - 7															
	00D · 2E · [De+e]	000-05	000-05-[0-+-]	00	0 	from Ver.188 Only User mode	from Ver.001 Ver.056 Only User mode				V1.00L01 Only User									
		QOD - ZL	03D.2L.[Data]	05 00h	-31	from Ver.188	Only User mode from Ver.001		Ver.1.00	Ver. 1.00	mode) V1.00L01		V1.00							
MATRIX(R-G)	OSD:2F:[Data]	QSD:2F	OSD:2F:[Data]	- 1Fh -	- 0 -	Only User mode	Ver.056 Only User mode Only User mode		-00-0. 00	-00-0. 00) Only User mode									
				3Eh	+31	S 100			V 1.00											
MATRIX(R-B)	OSD:30:[Data]	QSD : 30	OSD:30:[Data]	00n – 1Fh	-31 - 0	Only User mode	Ver.056 Only User mode Only User		-00-0.00	-00-0.00) Only User mode		V1.00							
				- 3Eh 00h	+31	from Ver 188	from Ver 001		Ver 1 00	Ver 1 00) V1 001 01		V1 00							
MATRIX(G-R)	OSD:31:[Data]	QSD:31	OSD:31:[Data]	- 1Fh -	- 0 -	Only User mode	Ver.056 Only User mode Only User mode		-00-0.00	-00-0.00	o Only User mode									
				3Eh	+31	from Vor 199	from Vor 001		Vor. 1. 00	Vor 1.00) V1 001 01		V1 00							
MATRIX(G-B)	OSD:32:[Data]	QSD:32	OSD:32:[Data]	- 1Fh	- 0 -	Only User mode	Ver.056 Only User mode Only User mode		-00-0.00	-00-0.00) Only User mode		1.00							
				3Eh 00h	+31	from Ver.188	from Ver.001		Ver.1.00	Ver. 1.00) V1.00L01		V1.00							
MATRIX(B-R)	OSD:33:[Data]	QSD : 33	OSD:33:[Data]	- 1Fh -	- 0 -	Only User mode	Ver.056 Only User mode Only User mode		-00-0. 00	-00-0. 00) Only User mode									
				3Eh 00h	+31 -31	from Ver.188	from Ver.001		Ver.1.00	Ver. 1.00) V1.00L01		V1.00							
MATRIX(B-G)	OSD:34:[Data]	QSD:34	OSD:34:[Data]	- 1Fh -	- 0 -	Only User mode	Ver.056 Only User mode Only User mode		-00-0. 00	-00-0. 00) Only User mode									
				3Eh 00h	+31	from Ver.188	from Ver.001 Ver.056 Only User mode		Ver.1.00	Ver. 1.00) V1.00L01							V7. 30		
				64h AK-HC3500	100 AK-HC3500 AK-UB300	only oser mode	Only User mode		00 0.00		mode									
FLARE R	OSD:35:[Data]	QSD : 35	OSD:35:[Data]	90 ~ FF	-100 ~ -1															
				00 01 ~	0 +1 ~															
		_		64 00h	+100	from Ver.188	from Ver.001		Ver.1.00	Ver. 1.00) V1.00L01							V7. 30		
				- 64h	100	Only User mode	Ver.056 Only User mode Only User mode		-00-0. 00	-00-0. 00) Only User mode									
FLARE G	OSD:36:[Data]	QSD : 36	OSD:36:[Data]	<u>АК-НС3500</u> 9С ~	<u>AK-HU3500. AK-UB300</u> -100 ~															
				00 01	-1 0 +1															
		_		64 00b	+100	from Ver 188	from Ver 001		Ver 1 00	Ver 1 00) V1 001 01							V7 30		
				- 64h	100	Only User mode	Ver.056 Only User mode Only User mode		-00-0.00	-00-0.00	o Only User mode									
FLARE B	OSD:37:[Data]	QSD : 37	OSD:37:[Data]	<u>AK−HC3500</u> 9C ~	<u>AK-HC3500. AK-UB300</u> -100 ~															
				FF 00 01	-1 0 +1															
				~ 64	+100															
FLARE SW	OSA:11:[Data]	QSA:11	OSA:11:[Data]	0 1	OFF ON				Ver.1.00 -00-0.00	Ver. 1.00 -00-0.00)							V7. 30		
				00 01 02	UFF LOW HIGH	from Ver.188 Only User mode	from Ver.001 Ver.056 Only User mode Only User	V001			V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V7.00	V1.00	V1.00
CLEAN DNR	OSD:3A:[Data]	QSD : 3A	OSD:3A:[Data]	<u>AK-UB300</u> 00	AK-UB300 OFF		mode													
				02							V1 001 01									
HD CLEAN DNR	OSD:3B:[Data]	QSD:3B	OSD:3B:[Data]	01 02	LOW HIGH						Only User mode									
2D LPF	OSD:3F:[Data]	QSD:3F	OSD:3F:[Data]	00 01 02	OFF LOW HIGH	from Ver.188 Only User mode	from Ver.001 Ver.056 Only User mode Only User	V001			V1.00L01									
				00	OFF	from Ver. 188	mode from Ver.001										 			
CORNER DETAIL	OSD:43:[Data]	QSD : 43	OSD:43:[Data]	01	UN	UNIY User mode	Ver.uso Uniy User mode Only User mode													
				00 01 02	OFF LOW HIGH	from Ver.188 Only User mode	from Ver.001 Ver.056 Only User mode Only User		Ver. 1. 00 -00-0. 00	Ver.1.00 -00-0.00)									
PRECISION DETAIL /SLIM DETAIL	OSD:44:[Data]	QSD:44	OSD:44:[Data]	00	<u>AK-HC1500. HC1800</u> 0FF		mode													
				01 02	ON ON															

					-																			
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Data Contents Control and Response to contol	ion	E300/A E600	E800 E80	DA E350 E650 E655	5 E750 E860	HE100 H	C1500	HC1800	HE870 HE50	Remarks HE60	HE120	HE130	HE40/HE65/HE70/HE4 /HE58/HE35/HE38/HN 8/HN40/HN65/HN70	8 3 UE70/UN70/UE65/UE63	B HE75/HE42/HE68	UB300	HR140	UE150/UE155/I
HD PRECISION DETAIL /HD SLIM DETAIL	OSD:45:	[Data]	QSD : 45	OSD:45:[Data]	00 01 02	AW-HE870 OFF LOW HIGH								V 0 m	1.00L01 nly User ode									
BLACK STRETCH	OSD:46:	[Data]	QSD:46	OSD:46:[Data]	00 01	OFF ON		from Ver.188 Only User mode	from Ver.00 Ver.056 Only U Only User mode	1 ser mode				V 0 m	1.00L01 nly User ode									
HIGH LIGHT CHROMA	OSD : 49 :	[Data]	OSD : 49	OSD:49:[Data]	00 01 02	OFF LOW HIGH		from Ver.188 Only User mode	from Ver.00 Ver.056 Only U Only User mode mode	1 ser														
FLESH NOISE SUPPRESS					00 01 02	OFF LOW HIGH			from Ver.00 Ver.056 Only U Only User mode mode	1 ser	Ver.001			V 0 m	1.00L01 nly User ode		V1.00							
FLESH DETAIL FLESH DTL LEVEL	OSD:4B:	[Data]	QSD:4B	OSD:4B:[Data]	00 01 02	LOW MID HIGH		from Ver.188 Only User mode		Ver.001														
HD FLESH NOISE SUPPRESS	OSD : 4C :	[Data]	QSD:4C	OSD:4C:[Data]	00 01 02	OFF LOW HIGH								V 0 m	1.00L01 nly User ode									
IRIS FOLLOW			QSD:4F	OSD:4F:[Data]	00h _ FFh	Close - Open	This Command can't be used through AW- RP400.	from Ver.188	from Ver.00 Ver.056	1		V1.00L01 Ver -00-	.1.00 Ve -0.00 -0	er.1.00 V 00-0.00	1. 00L01 V1. 00	V3. 00	V1.00	V1. 00	V1.00	V1. 00	V1.00		V1.00	V1.00
CONTRAST (GAMMA)	OSD:50:	[Data]	QSD:50	OSD:50:[Data]	00 01 02	LOW MID HIGH		from Ver.188 Only Halogen,Fluorescent, tdoor mode	from Ver.00 Ver.056 Only H Du Only Halogen,Fl uorescent, Outdoor mode	1 alogen,Fluorescent,Outdoor mode		V1.00L01 Only User mode		V 0 H u 0 m	1.00L01 V1.00 nly alogen,Fl orescent, utdoor ode	V3. 00	V1.00		V1. 00	V1. 00	V1.00			
FLESH TONE	OSD:52:	[Data]	QSD:52	OSD:52:[Data]	00 - 03 - 06	-3 - 0 - +3		from Ver.188 Only Halogen,Fluorescent, tdoor mode	from Ver.00 Ver.056 Only H Du Only Halogen,Fl uorescent, Outdoor mode	1 alogen,Fluorescent,Outdoor mode				V 0 H 0 m	1.00L01 nly alogen,Fl orescent, utdoor ode									
DETAIL SELECT	OSD:54:	[Data]	QSD:54	OSD:54:[Data]	00 01	Normal Super DTL OFF		from Ver.188 Only Halogen,Fluorescent, tdoor mode	from Ver.00 Ver.056 Only H Du Only Halogen,Fl uorescent, Outdoor mode from Ver.00	1 alogen,Fluorescent,Outdoor mode 1				V O H U O m	1.00L01 nly alogen,Fl orescent, utdoor ode 1.00L01									
NOISE SUPPRESS	OSD:55:	[Data]	QSD:55	OSD:55:[Data]	01 02 00	LOW HIGH OFF		Only Halogen,Fluorescent, tdoor mode	Ver.056 Only H Ou Only Halogen,Fl uorescent, Outdoor mode from Ver.00	alogen,Fluorescent,Outdoor mode				0 H 0 m	nly alogen,Fl orescent, utdoor ode 									
FLESH NOSE SUPPRESS	OSD:56:	[Data]	QSD:56	OSD:56:[Data]	01 02 00	LOW HIGH LOW		from Ver.188	Ver.056 Only Only Haloge Halogen,Fl uoresc uorescent, Outdoo Outdoor mode mode	n,Fl ent, r	OSD : 4B													
DTL FLESH SUPPRESS					01 02 00		with studio	Unly Halogen, Fluorescent, tdoor mode	Du from Ver.00	1														
ZEBRA INDICATER ZEBRA1 LEVEL	OSD:60: OSD:61:	[Data] [Data]	QSD:60 QSD:61	OSD:60:[Data] OSD:61:[Data]	01 00h -	ON 70% -	card with studio card	from Ver.188	Ver.056 from Ver.00 Ver.056	1														
ZEBRA2 LEVEL	OSD:62:	[Data]	QSD:62	OSD:62:[Data]	27h 01h - 28h	109% 71% _ 110%	with studio card	from Ver.188	from Ver.056															
SAFETY ZONE	OSD:63:	[Data]	QSD:63	OSD:63:[Data]	01 02 03 04 05 06	1 2 3 4 5 0FF	with studio card	from Ver.188	from Ver.00 Ver.056	1														
EVF OUTPUT	OSD : 64 :	[Data]	QSD:64	OSD:64:[Data]	00 01 00 01	Y VBS RGB YPbPr	with studio card Y/C is Valid With	from Ver.188 from Ver.188 with component Card	from Ver.00 Ver.056 from Ver.00 Ver.056 with	1 1 Ver.001		V1.00L01 supports		V	 1. 00L01		 V1.00 Y/C is Valid							
OUTPUT SELECT	OSD : 65 :	[Data]	QSD:65	OSD:65:[Data]	02	Y/C	SD(4801/5761) ormat	from Vor 199	component Card Card	1 Vor 001	I	only 01 (Y/Pb/Pr), 02 (Y/C)												
CHARGE TIME	OSD:68:	[Data]	QSD : 68	OSD:68:[Data]	00 01 02 03 04 05 06 07 08 00 01 02 03 04 05 06	2s 1s 1/2s 1/4s 1/4s 1/4s 1/15s 1/30s 0FF AUT0 PAL 2s 1s 1/2s 1/2s 1/3s 1/6s 1/12s 1/12s			Ver. 056															
					07 08 00 01 02 03 01	(OFF) 6dB 12dB 18dB		with High Sensitivit from Ver.188	/ Card from Ver.00 Ver.056	1 Ver.001		V1.00L01 supports only 01(6dB)		V s 0 0	1.00L01 V1.00 upports supports only nly 01(6dB) 1(6dB) -	V3.00 supports only 01(6dB) -	V1.00 supports only 01(6dB) -	V1.00 supports only 01(6dB) -	V1.00 supports only 01(6dB) -	V1.00 supports only 01(6dB) -	V1.00 supports only 01(6dB) -		V1.00 supports only 01(6dB) -	V1.00 supports only 01(6dB) -
AGC MAX	OSD : 69 :	[Data]	QSD:69	OSD:69:[Data]	04 05 06 07 07 00 01 02 03 04 05 06 07 08	24dB 30dB 33dB (HBK50), N/Eye (E300/A) N/Eye L (E600, E750, E655, E860) N/Eye H (E600, E750, E655, E860) <u>AW-HE40/HE65/HE70</u> (0FF) 6dB 12dB 18dB 24dB 30dB 36dB 42dB 49dP						– 03 (18dB)		- 0	3 (18dB)	U3 (18dB)	U3 (18dB)	U3 (18dB)	U8 (48dB)	U8 (48dB)	U8 (48dB)		U3 (18dB)	U3 (18dB)
ASPECT RATIO	OSD:70:	[Data]	QSD:70	OSD:70:[Data]	00 01 00 00	400B 16:9 4:3 0FF		with High Sensitivit	/ Card from Ver.00 Ver.056 from	1 Ver.001	Ver.001	V1. 00L01		V	1. 00L01 					 				
FAN	OSD:71:	[Data]	QSD : 71	OSD:71:[Data]	01 02 00 01 02	ON AUTO (E750, E655, E860, HE100) <u>AK-HC1500, HC1800</u> OFF AUTO ON			Ver.056															

ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Da Control and Response to contol	ata Contents Response to Confirmation		E300/A	E600
ATW SPEED	0SD : 72	2:[Data]	QSD : 72	OSD:72:[Data]	00 01 02 03 04		Slow2 Slow1 Middle Fast1 Fast2			
COLOR BAR/CAMERA	DCB :	[Data]	QBR	OBR:[Data]	0 1 2 3	C	Camera Color Bar Test lose(Camera)		supports o	nly O(Cam
MENU	DUS :	[Data]	QUS	OUS:[Data]	0 1 2	0	OFF ON N ByBrowser		Ver.001	
BAR SETUP	DCS:	[Data]	QCS	OCS:[Data]	0		0.0% 7.5%			
MENU SW	DPG:	[Data]		I	1		7.0/0	"DPG" is equal to "DPG:1".	Ver.001	
ITEM SW	DIT:	[data]			1			"DIT" is equal to "DIT:1".	Ver.001	
					1h Ab		1Step	"DUP" is equal	Ver.001 su	pports on
YES SW	DUP :	[Data]			An		10step		Ver. 001	
NO SW	DDW :	[Data]			Ah		10Step	to "DDW:1".	ver. oor su	pports on
PAN (LEFT)	ŀ	IPL				m	ove to left		from Ver.1	77
						mo	ove to right		with Lens from Ver.1	I/F Card 77
PAN (RIGHT)	ŀ	IPR								
							aton non		with Lens	I/F Card
PAN (STOP)	ŀ	I PS					stop pan		Trom ver.1	11
									with Lens	I/F Card
TILT (UP)	ŀ	ITU					move to up		from Ver.1	77
						m	ove to down		with Lens from Ver.1	I/F Card 77
TILT(DOWN)	ŀ	ITD							with Long	I/E Cord
TILT (STOP)		ITS					stop tilit		from Ver.1	77
									with Lens	I/F Card
ZOOM(TELE)	ŀ	IZT				m	nove to tele		from Ver.1 with Lens	77 I/F Card
						m	ove to wide		from Ver.1	77
ZOOM (WIDE)	.	1ZW								
									with Lens	I/F Card
							stop zoom		from Ver.1	77
ZOOM(STOP)	ŀ	IZS							with Lens	I/F Card
					0	Slow	I			
ZOOM SPEED	LZS:	[Data]			9	- Fast				
						ſ	nove to far		from Ver.1	77
FOCUS (FAR)	ŀ	IFF							with Lens	I/F Card
						m	ove to near		from Ver.1	77
FOCUS (NEAR)	ŀ	IFN								
									WITH Lens	I/F Gard
							stop focus		from Ver.1	77
FOCUS (STOP)	ŀ	IFS							with Lens	I/F Card
					0	Slow				
FOCUS SPEED	LFS:	[Data]			9	- Fast				
SAVE LENS PSITION to PRESET	LPS:	[Data]			01 02 03 04 05	Save to Preset1 Save to Preset2 Save to Preset3 Save to Preset4 Save to Preset5				
					00 01	Recall Current Recall Preset1				
Recall LENS PRESET	LPM:	[Data]			02 03 04 05	Recall Preset2 Recall Preset3 Recall Preset4 Recall Preset5				
COLOR MATRIX R GAIN					01h - 20h		-127 -			
/COLOR CORRECTION R SATURATION	0SD:86	6∶[Data]	QSD:86	OSD:86:[Data]	- FFh		+127			
COLOR MATRIX					01h 		-127			
R PHASE /COLOR CORRECTION R PHASE	OSD:87	7:[Data]	QSD:87	OSD:87:[Data]	80h - FFh		u - +127			

		Dat	ta Contents								•	•				1	Remarks	1	-	1		-	
Reply for Confirmation Command	Data	Control and	Response to Confirmation	E300/A	E600	E800	E800A	E350 E	E650 E65	5 E750	E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE /HE58/HE35/HE38/H	48 N3 UE70/UN70/UE65/UE63	3 HE75/HE42/HE68	UB300
	00		Slow2			Ve	er.001								V1.00L01					8/HN40/HN65/HN7	0		
OSD:72:[Data]	01 02		Slow1 Middle																				
	03 04		Fast1 Fast2																				
	0		Camera Color Bar	supports onl	ly O(Camera)	,1(Color Bar))					V1.00L01	Ver.1.00	Ver.1.00	V1.00L01	V1.00 supports only	V3.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V7.00 supports only
OBR:[Data]	2		Test									only O(Camera),	,		only O(Camera),	O(Camera), 1(Color Bar)	O(Camera), 1(Color Bar)	O(Camera), 1(Color Bar)	O(Camera), 1(Color Bar)	O(Camera), 1(Color Bar)	O(Camera), 1(Color Bar)	O(Camera), 1(Color Bar)	O(Camera), 1(Color Bar)
	3	Clo	ose(Camera)									1(Color Bar)			1(Color Bar)								
	0 1	01	OFF ON	Ver.001								V1.00L01	Ver.1.00 -00-0.00	Ver.1.00 -00-0.00	V1.00L01	V1.00 supports only	V3.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V7.00 supports only
OUS:[Data]	2	UN	bybrowser													1 (ON)	1 (ON)	1 (ON)	1 (ON)	0 (OFF), 1 (ON)	1 (ON)	1 (ON)	1 (ON)
OCS:[Data]	0		0.0%				Ve	Ver.001							V1.00L01			V1.00	V1.00				
	1		7.5%	l Ver.001								V1.00L01			V1.00L01	V1.00	V3. 00	V1.00	V1.00	V1.00	V1.00	V1.00	V7. 00
			to "DPG:1".																				
	1		"DIT" is equal to "DIT:1".	l Ver.001								V1.00L01	Ver.1.00 -00-0.00	Ver.1.00 -00-0.00	V1.00L01	V1.00	V3. 00	V1.00	V1. 00	V1.00	V1.00	V1.00	V7. 00
	1h		1Step "DUP" is equal	l Ver.001 supp	ports only D	UP, DUP: 1						V1.00L01	Ver. 1.00	Ver. 1.00	V1.00L01	V1.00	V3. 00	V1.00	V1.00	V1.00	V1.00	V1.00	V7.00
	An		to DUP-1.									only	-00-0.00 supports	supports									1h(1Step)
													DUP, DUP:1	DUP, DUP: 1									
	1h Ah		1Step "DDW" is equal 10Step to "DDW:1".	l Ver.001 supp	ports only D	DW, DDW: 1						V1.00L01 supports	Ver.1.00 -00-0.00	Ver.1.00 -00-0.00	V1.00L01	V1.00	V3. 00	V1.00	V1.00	V1.00	V1.00	V1.00	V7.00 supports only
												only DDW,DDW∶1	supports only	supports only									1h(1Step)
			we to left	from Vor 177	7	from	or 001						DDW, DDW: 1	DDW, DDW: 1									
		IIIO			,	Ver. 046	er. 001																
					(5.0.1																		
		mov	ve to right	from Ver 177	/F Card	from Ve	er 001																
					,	Ver. 046																	
				with Long I/	/ F _0 and							_											
			stop pan	from Ver. 177	7 Gard	from Ve	er.001																
					N N	Ver.046																	
				with Long I/	/E Card							_											
		m	nove to up	from Ver. 177	7	from Ve	er.001																
					N N	Ver.046																	
				with lens I/	/F Card							_											
		mo	ove to down	from Ver. 177	7	from Ve	er.001																
) 	Ver.046																	
				with Lens I/	/F Card							_											
		s	stop tilit	from Ver.177	7	from Ve	er.001																
					ľ	Ver.046																	
				with Lens I/	/F Card							_											
		mo	ove to tele	from Ver.177	7	from Ve	er.001					V1.00L01	Ver.1.10-	Ver. 1.00-	V1.00L01	V1.00	V3. 00			V1.00	V1.00	V1.00	V7. 00
						ver. 040							00-0.00	00-0.00									
				with Lens I/	/F Card					with Lens	I/F Card	_			with Lens	-							
					-	c hu	001								I/F Card								N7 60
		mo	ove to wide	trom Ver.1//	/	trom Ve Ver.046	er.001					V1.00L01	Ver.1.10- 00-0.00	Ver. 1.00- 00-0.00	V1.00L01	V1.00	V3.00			V1.00	V1.00	V1.00	V7.00
				with Lens I/	/F Card					with Lens	I/F Card	V1.00L01			with Lens I/F Card								
		s	stop zoom	from Ver.177	7	from Ve	er.001					V1.00L01	Ver.1.10-	Ver. 1.00-	V1.00L01	V1.00	V3. 00			V1.00	V1.00	V1.00	V7. 00
					ľ	ver.046							00-0.00	00-0.00									
				with Lens I/	/F Card					with Lens	I/F Card	V1.00L01	-		with Lens	-							
	Ω	Slow									from	V1 001 01	Ver 1 10-	Ver 1 00-	1/F Card	V1.00	V3 00			V1.00	V1.00	V1.00	V7. 00
	- 9	- Fast									Ver.077		00-0.00	00-0.00									
		mc	ove to far	from Ver.177	7	from Ve	er.001				1	V1.00L01	Ver. 1. 10-	Ver.1.00-	V1.00L01	V1.00	V3.00			V1.00	V1.00	V1.00	V7. 00
					Y	ver.046							00-0.00	00-0.00									
				with Lens I/	/F Card					with Lens	I/F Card	V1.00L01	-		with Lens	-							
		mo	ve to near	from Ver 177	7 I +	from IV-	er. 001					V1_00L01	Ver 1 10-	Ver 1 00-	I/F Card	V1.00	V3.00			V1.00	V1.00	V1.00	V7. 00
						Ver. 046							00-0.00	00-0.00			10.00			11.00			17.00
				with Law 1'	/F Cord							V1 00101	_		wi+6 I -	4							
				with Lens I/	r Gard					with Lens	I/F Card	VI. 00L01			I/F Card								
		S	top focus	from Ver.177	7	from Ve	er.001		<u> </u>	I		V1.00L01	Ver.1.10-	Ver.1.00-	V1.00L01	V1. 00	V3. 00			V1. 00	V1.00	V1. 00	V7. 00
													00 0.00	00 0.00									
				with Lens I/	/F Card					with Lens	I/F Card	V1.00L01	-		with Lens	-							
	Ω	Slow									from	V1 001 01	Ver 1 10-	Ver 1 00-	1/F Gard	V1 00	V3 00			V1 00	V1 00	V1 00	V7_00
	- 9	- Fast									Ver. 077		00-0.00	00-0.00									
	01	Save to Preset1											Ver.1.10-	Ver.1.00-									
	02 03	Save to Preset2 Save to Preset3											00-0. 00	00-0.00									
	04 05	Save to Preset4 Save to Preset5																					
	00	Recall Current											Ver.1.10-	Ver.1.00-									
	02 03	Recall Preset2 Recall Preset3											00 0.00	00 0.00									
	04 05	Recall Preset4 Recall Preset5																					
	01h		-127				Ve	Ver001					Ver1.10-	Ver1.00-	V1.00L01			V1.00	V1.00	V1.00	V1.00	V1.00	V7.00
OSD:86:[Data]	_ 80h		0				01	uniy User mode					00-0.00	UU-U. 00	uniy User mode				supports only 41h(-63) -	supports only 61h(-31) -	supports only 61h(-31) -	supports only 61h(-31) -	supports only 01h(-127) -
	_ FFh		+127										-03 <-> +63	-03 <-> +63					BFh (+63)	9Fh (+31)	9Fh (+31)	9Fh(+31)	FEh (+126)
	01h _		-127				Ve	Ver001 Only User mode					Ver1.10- 00-0.00	Ver1.00- 00-0.00	V1.00L01 Only User			V1.00	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V7. 00
OSD:87:[Data]	80h _		0 -										-63 <->	-63 <->	mode				41h (-63) -	41h (-63) -	41h (-63) -	41h (-63) -	
	FFh		+127										+63	+63					BFh (+63)	BFh (+63)	BFh (+63)	BFh (+63)	

						Re	marks								
E750	E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/I
					V1.00L01										
		V1.00L01 supports	Ver.1.00 -00-0.00	Ver.1.00 -00-0.00	V1.00L01 supports	V1.00 supports only	V3.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V7.00 supports only	V1.00 supports only	V1.00 supports only
		0(Camera), 1(Color Bar)	Ver 1 00	Ver 1 00	0(Camera), 1(Color Bar)	1 (Color Bar)	1 (Color Bar)	1 (Color Bar)	1 (Color Bar)	1 (Color Bar)	1 (Color Bar)				
			-00-0.00	-00-0.00		supports only 0(OFF), 1(ON)	supports only O(OFF), 1(ON)	supports only O(OFF), 1(ON)	supports only O(OFF), 1(ON)	supports only O(OFF), 1(ON)	supports only O(OFF), 1(ON)	supports only 0(OFF), 1(ON)	supports only O(OFF), 1(ON)	supports only O(OFF), 1(ON)	supports only O(OFF), 1(ON)
		 V1. 00L01			V1.00L01 V1.00L01	 V1. 00	 V3. 00	V1.00 V1.00	V1. 00 V1. 00	 V1. 00	 V1. 00	 V1. 00	 V7. 00	 V1.00	 V1. 00
		V1.00L01	Ver.1.00	Ver.1.00	V1.00L01	V1. 00	V3. 00	V1.00	V1.00	V1. 00	V1.00	V1.00	V7. 00	V1.00	V1. 00
		V1 00L01	-00-0.00	-00-0.00	V1 00L01	V1 00	V3 00	V1 00	V1 00	V1 00	V1_00	V1_00	V7 00	V1 00	V1 00
		supports only DUP,DUP:1	-00-0.00 supports only DUP,DUP:1	-00-0.00 supports only DUP,DUP:1									supports only 1h(1Step)		supports only 1h(1Step)
		V1.00L01 supports only	Ver.1.00 -00-0.00 supports	Ver.1.00 -00-0.00 supports	V1.00L01	V1. 00	V3. 00	V1.00	V1. 00	V1. 00	V1.00	V1. 00	V7.00 supports only 1h(1Step)	V1. 00	V1.00 supports only 1h(1Step)
		DDW, DDW: 1	only DDW,DDW:1	only DDW,DDW:1											
		-													
		-													
		_													
		-													
		V1.00L01	Ver.1.10- 00-0.00	Ver.1.00- 00-0.00	V1.00L01	V1. 00	V3. 00			V1. 00	V1.00	V1.00	V7. 00		
n Lens	I/F Card	-			with Lens I/E Card	-									
		V1.00L01	Ver.1.10-	Ver.1.00-	V1. 00L01	V1. 00	V3. 00			V1. 00	V1.00	V1.00	V7. 00		
n Lens	I/F Card	V1.00L01			with Lens I/F Card										
		V1.00L01	Ver.1.10- 00-0.00	Ver.1.00- 00-0.00	V1.00L01	V1. 00	V3. 00			V1. 00	V1.00	V1.00	V7. 00		
n Lens	I/F Card	V1.00L01	-		with Lens I/E Card										
	from Ver.077	V1.00L01	Ver.1.10- 00-0.00	Ver.1.00- 00-0.00	V1. 00L01	V1.00	V3. 00			V1. 00	V1.00	V1.00	V7. 00		
		V1.00L01	Ver.1.10-	Ver.1.00-	V1. 00L01	V1.00	V3. 00			V1.00	V1.00	V1.00	V7. 00		
			00-0.00	00-0.00											
n Lens	I/F Card	V1.00L01			with Lens I/F Card										
		V1.00L01	Ver.1.10- 00-0.00	Ver.1.00- 00-0.00	V1.00L01	V1. 00	V3. 00			V1. 00	V1.00	V1. 00	V7. 00		
n Lens	I/F Card	V1.00L01	-		with Lens	-									
		V1.00L01	Ver.1.10-	Ver.1.00-	V1. 00L01	V1.00	V3. 00			V1.00	V1.00	V1.00	V7. 00		
			00 0.00	00 0.00											
n Lens	I/F Card	V1.00L01			with Lens I/F Card										
	from Ver.077	V1.00L01	Ver.1.10- 00-0.00	Ver.1.00- 00-0.00	V1.00L01	V1. 00	V3. 00			V1. 00	V1. 00	V1. 00	V7. 00		
			Ver.1.10- 00-0.00	Ver.1.00- 00-0.00											
			Ver.1.10- 00-0.00	Ver.1.00- 00-0.00											
			Ver1.10- 00-0.00	Ver1.00- 00-0 00	V1.00L01 Only User			V1.00	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V7.00 supports only	V1.00 supports only	V1.00 supports only
			-63 <-> +63	-63 <-> +63	mode				41h (-63) - BFh (+63)	61h (-31) - 9Fh (+31)	61h (-31) - 9Fh (+31)	61h (-31) - 9Fh (+31)	01h (-127) - FEh (+126)	41h (-63) - BFh (+63)	41h (-63) - BFh (+63)
			Ver1.10- 00-0 00	Ver1.00- 00-0 00	V1.00L01 Only liser			V1.00	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V7. 00	V1.00 supports only	V1.00 supports only
			-63 <->	-63 <->	mode				41h (-63)	41h (-63)	41h (-63) -	41h (-63) -		41h (-63)	41h (-63)
			+03	+63	1				RFU (+03)	RFU (+03)	RFU (+03)	RFU (+03)		BFN(+63)	RFU(+63)

					Data Contents				Remarks								
ITEM	Control Reply for Command Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol	E300/A E600 E800 E800A	E350 E650 E655 E750 E860	HE100 HC1500 HC1800 HE870	HE50 HE60	HE120	HE130	HE40/HE65/HE70/ /HE58/HE35/HE38 8/HN40/HN65/H	IE48 /HN3 UE70/UN70/UE65/UI 70	E63 HE75/HE42/HE68	UB300	HR140	UE150/UE155/I
COLOR MATRIX				01h	-127		Ver001	Ver1.10- Ver1.00- V1.00L01		V1.00	V1.00				V7.00	V1.00	V1.00
R_YI GAIN /COLOR CORRECTION	OSD:88:[Data]	QSD:88	OSD:88:[Data]	80h -	0			-63 <-> -63 <->			41h (-63)				01h (-127) -	41h (-63)	41h (-63)
R_YI SATURATION				FFh 01b	+127		Ver001	+63 +63		V1 00	BFh (+63)				FEh (+126)	BFh (+63)	BFh (+63)
COLOR MATRIX R_YI PHASE /COLOR	0SD:89:[Data]	050.89	0SD·89·[Data]	- 80h	- 0		Only User mode	00-0.00 00-0.00 0nly User mode			supports only 41h(-63)				17.00	supports only 41h(-63)	supports only 41h(-63)
CORRECTION R_YI PHASE		400.00		– FFh	- +127			$\begin{array}{ccc} -63 & <-> & -63 & <-> \\ +63 & +63 & \end{array}$			– BFh (+63)					– BFh (+63)	– BFh (+63)
COLOR MATRIX				01h _	-127 -		Ver001 Only User mode	Ver1.10- Ver1.00- V1.00L01 00-0.00 00-0.00 0nly User		V1.00	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V7.00 supports only	V1.00 supports only	V1.00 supports only
/COLOR CORRECTION	OSD:8A:[Data]	QSD:8A	OSD:8A:[Data]	80h _ EEb	0 - +127			-63 <-> -63 <-> mode			41h (-63) - BEb (+63)	61h (-31) - 9Eb (+31)	61h (-31) - 0Eb (+31)	61h (-31) - 0Eh (+31)	01h (-127) - EEb (+126)	41h (-63) - BEb (+63)	41h (-63) - BEb (+63)
YI SATURATION				01h	-127		Ver001	Ver1.10- Ver1.00- V1.00L01		V1.00	V1.00	V1. 00	V1.00	V1.00	V7. 00	V1. 00	V1.00
YI PHASE /COLOR	OSD:8B:[Data]	QSD:8B	OSD:8B:[Data]	_ 80h _	0		Only User mode	00-0.00 00-0.00 0nly User mode			supports only 41h(-63) -	supports only 41h(-63) -	supports only 41h(-63) -	supports only 41h(-63) -		supports only 41h(-63) -	supports only 41h(-63) -
CORRECTION YI PHASE				FFh	+127			+63 +63			BFh (+63)	BFh (+63)	BFh (+63)	BFh (+63)		BFh (+63)	BFh (+63)
COLOR MATRIX YI_G GAIN				01h 	-127 - 0		Ver001 Only User mode	Ver1.10- Ver1.00- V1.00L01 00-0.00 00-0.00 0nly User		V1.00	V1.00 supports only 41h(-63)				V7.00 supports only 01h(-127)	V1.00 supports only 41h(-63)	V1.00 supports only 41h(-63)
/COLOR CORRECTION YL G SATURATION	OSD:8C:[Data]	QSD:8C	OSD:8C:[Data]	– FFh	- +127			$\begin{array}{c c} -63 < - \rangle & -63 < - \rangle \\ +63 & +63 \end{array}$			– BFh (+63)				– FEh (+126)	– BFh (+63)	– BFh (+63)
COLOR MATRIX				01h _	-127		Ver001 Only User mode	Ver1.10- Ver1.00- V1.00L01 00-0.00 00-0.00 001v User		V1.00	V1.00 supports only				V7. 00	V1.00 supports only	V1.00 supports only
YI_G PHASE /COLOR CORRECTION	OSD:8D:[Data]	QSD:8D	OSD:8D:[Data]	80h	0			-63 <-> -63 <->			41h (-63)					41h (-63)	41h (-63)
YI_G PHASE				01h	+127		Ver001	+63 +63		V1.00	BFh (+63) V1. 00	V1. 00	V1.00	V1.00	V7.00	BFh (+63) V1, 00	BFh (+63)
G GAIN /COLOR	OSD:8E:[Data]	QSD : 8E	OSD:8E:[Data]	_ 80h	0		Only User mode	00-0.00 00-0.00 Only User mode			supports only 41h(-63)	supports only 61h(-31)	supports only 61h(-31)	supports only 61h(-31)	supports only 01h(-127)	supports only 41h(-63)	supports only 41h(-63)
CORRECTION G SATURATION				_ FFh	+127			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			– BFh (+63)	– 9Fh (+31)	– 9Fh (+31)	– 9Fh(+31)	– FEh (+126)	– BFh (+63)	– BFh (+63)
COLOR MATRIX G PHASE				01h _	-127		Ver001 Only User mode	Ver1.10- Ver1.00- V1.00L01 00-0.00 00-0.00 0nly User		V1.00	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V7. 00	V1.00 supports only	V1.00 supports only
/COLOR CORRECTION	OSD:8F:[Data]	QSD:8F	OSD:8F:[Data]	- FFh	- +127			-63 <-> -63 <-> +63			411 (-63) - BFh (+63)	410 (-03) - BFh (+63)	411 (-63) - BFh (+63)	4111 (-63) - BFh (+63)		411 (-63) - BFh (+63)	411 (-63) - BFh (+63)
COLOR MATRIX				01h	-127		Ver001 Only loor mode	Ver1.10- Ver1.00- V1.00L01		V1.00	V1.00	V1.00	V1.00	V1.00	V7.00	V1.00	V1.00
G_Cy GAIN /COLOR CORRECTION	OSD:90:[Data]	QSD : 90	OSD:90:[Data]	80h _	0		onry user mode	-63 <-> -63 <->			41h (-63)	61h (-31)	61h (-31) -	61h (-31)	01h (-127)	41h (-63)	41h (-63) -
G_Cy SATURATION				FFh 01h	+127		Ver001	+63 +63		V1 00	BFh (+63)	9Fh (+31)	9Fh (+31)	9Fh (+31)	FEh (+126)	BFh (+63)	BFh (+63)
COLOR MATRIX G_Cy PHASE /COLOR	0SD:91:[Data]	0SD:91	OSD:91:[Data]	- 80h	- 0		Only User mode	00-0.00 00-0.00 0nly User mode		11.00	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	17.00	supports only 41h(-63)	supports only 41h(-63)
CORRECTION G_Cy PHASE		402.01		_ FFh	+127			$\begin{array}{ccc} -63 & \langle -\rangle & -63 & \langle -\rangle \\ +63 & +63 \end{array}$			– BFh (+63)	– BFh (+63)	– BFh (+63)	– BFh (+63)		– BFh (+63)	– BFh (+63)
COLOR MATRIX Cy GAIN				01h 	-127		Ver001 Only User mode	Ver1.10- Ver1.00- V1.00L01 00-0.00 00-0.00 0nly User		V1.00	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V7.00 supports only	V1.00 supports only	V1.00 supports only
/COLOR CORRECTION	OSD:92:[Data]	QSD:92	OSD:92:[Data]	80h _ FFh	0 - +127			-63 <-> -63 <-> +63			41h (-63) - BFh (+63)	61h (-31) - 9Fh (+31)	61h (-31) - 9Fh (+31)	61h (-31) - 9Fh (+31)	01h (-127) - FEh (+126)	41h (-63) - BFh (+63)	41h (-63) - BFh (+63)
COLOR MATRIX				01h	-127		Ver001	Ver1.10- Ver1.00- V1.00L01		V1.00	V1.00	V1. 00	V1.00	V1.00	V7. 00	V1.00	V1.00
Cy PHASE /COLOR	OSD:93:[Data]	QSD : 93	OSD:93:[Data]	_ 80h _	0		Unity User mode	-63 <-> -63 <->			41h (-63)	41h (-63) -	41h (-63)	41h (-63)		41h (-63) -	41h (-63)
Cy PHASE				FFh	+127		Vor001	+63 +63		V1 00	BFh (+63)	BFh (+63)	BFh (+63)	BFh (+63)	V7 00	BFh (+63)	BFh (+63)
COLOR MATRIX Cy_B GAIN /COLOR	0SD:94:[Data]	050.04	[c+c].40.020	80h	- 0		Only User mode	00-0.00 00-0.00 0nly User mode		11.00	supports only 41h(-63)				supports only 01h(-127)	supports only 41h(-63)	supports only 41h(-63)
CORRECTION Cy_G SATURATION		400.04	000.04.[Dutu]	– FFh	- +127			$\begin{array}{ccc} -63 & <-> & -63 & <-> \\ +63 & +63 & \end{array}$			– BFh (+63)				– FEh (+126)	– BFh (+63)	– BFh (+63)
COLOR MATRIX Cv B PHASE				01h 	-127		Ver001 Only User mode	Ver1.10- Ver1.00- V1.00L01 00-0.00 00-0.00 00ly User		V1.00	V1.00 supports only				V7. 00	V1.00 supports only	V1.00 supports only
/COLOR CORRECTION	OSD:95:[Data]	QSD:95	OSD:95:[Data]	80h _ FFh	0 - +127			$-63 \langle -\rangle$ $-63 \langle -\rangle$ $+63$			41h (-63) - BFh (+63)					41h (-63) - BFh (+63)	41h (-63) - BFh (+63)
COLOR MATRIX				01h	-127		Ver001	Ver1.10- Ver1.00- V1.00L01		V1.00	V1. 00	V1.00	V1.00	V1.00	V7.00	V1.00	V1.00
B GAIN /COLOR	OSD:96:[Data]	QSD : 96	OSD:96:[Data]	_ 80h _	0		Uniy User mode	-63 <-> -63 <->			41h(-63) -	61h(-31) -	61h(-31) -	61h(-31) 61h(-31)	supports only 01h(-127) -	supports only 41h(-63) -	41h(-63) -
B SATURATION				FFh	+127		Vor001	+63 +63		V1 00	BFh (+63)	9Fh (+31)	9Fh (+31)	9Fh (+31)	FEh (+126)	BFh (+63)	BFh (+63)
COLOR MATRIX B PHASE	05D.07.[Data]	05007	050.02.[02+2]	- 80h	0		Only User mode	00-0.00 00-0.00 00ly User		¥1.00	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	V7.00	supports only 41h(-63)	supports only 41h(-63)
CORRECTION B PHASE	000.01.[bata]	63037	000.97.[Data]	– FFh	- +127			$\begin{array}{ccc} -63 & <-> & -63 & <-> \\ +63 & +63 & \end{array}$			– BFh (+63)	– BFh (+63)	– BFh (+63)	– BFh (+63)		– BFh (+63)	– BFh (+63)
COLOR MATRIX B Mg GAIN				01h 	-127		Ver001 Only User mode	Ver1.10- Ver1.00- V1.00L01 00-0.00 00-0.00 0nly User		V1.00	V1.00 supports only				V7.00 supports only	V1.00 supports only	V1.00 supports only
/COLOR CORRECTION	OSD:80:[Data]	QSD : 80	OSD:80:[Data]	80h _ FFh	0 - +127			$-63 \langle -\rangle$ $-63 \langle -\rangle$ $+63$			41h (-63) - BFh (+63)				01h (-127) - FEh (+126)	41h (-63) - BFh (+63)	41h (-63) - BFh (+63)
COLOR MATRIX				01h	-127		Ver001	Ver1.10- Ver1.00- V1.00L01		V1.00	V1.00				V7. 00	V1.00	V1.00
B_Mg PHASE /COLOR	OSD:81:[Data]	QSD:81	OSD:81:[Data]	_ 80h _	0		Uniy User mode	-63 <-> -63 <->			41h(-63) -					41h(-63) -	41h(-63) -
B_Mg PHASE				FFh 01b	+127		Ver001	+63 +63		V1 00	BFh (+63)	V1 00	V1 00	V1 00	V7 00	BFh (+63)	BFh (+63)
COLOR MATRIX Mg GAIN /COLOR	0SD:82:[Data]	QSD : 82	0SD:82:[Data]		- 0		Only User mode	00-0.00 00-0.00 00 User mode			supports only 41h(-63)	supports only 61h(-31)	supports only 61h(-31)	supports only 61h(-31)	supports only 01h(-127)	supports only 41h(-63)	supports only 41h(-63)
CORRECTION Mg SATURATION			[Pata]	FFh	+127			$\begin{vmatrix} -63 & <-> \\ +63 & +63 \end{vmatrix} + \begin{vmatrix} -63 & <-> \\ +63 & \end{vmatrix}$			– BFh (+63)	– 9Fh (+31)	– 9Fh (+31)	– 9Fh (+31)	– FEh (+126)	– BFh (+63)	– BFh (+63)
COLOR MATRIX Mg PHASE				01h	-127		Ver001 Only User mode	Ver1.10- Ver1.00- V1.00L01 00-0.00 00-0.00 00ly User		V1.00	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V7. 00	V1.00 supports only	V1.00 supports only
/COLOR CORRECTION	OSD:83:[Data]	QSD:83	OSD:83:[Data]	80n - FFh	0 - +127			$ \begin{vmatrix} -63 & <-> \\ +63 & +63 \end{vmatrix} $			4 i n (-63) - BFh (+63)	41n (-63) - BFh (+63)	41n (-63) - BFh (+63)	4 i n (-63) - BFh (+63)		4 in (-63) - BFh (+63)	410 (-63) - BFh (+63)
COLOR MATRIX				01h	-127		Ver001	Ver1.10- Ver1.00- V1.00L01		V1.00	V1.00	V1.00	V1.00	V1.00	V7.00	V1.00	V1.00
Mg_R GAIN /COLOR CORRECTION	OSD:84:[Data]	QSD:84	OSD:84:[Data]	- 80h -	0		Unity User mode	-63 <-> -63 <->			41h (-63)	61h (-31) -	61h (-31)	61h (-31)	01h (-127)	41h (-63)	41h (-63)
Mg_R SATURATION				FFh 01b	+127		Ver001	+63 +63		V1 00	BFh (+63)	9Fh (+31)	9Fh (+31)	9Fh (+31)	FEh (+126)	BFh (+63)	BFh (+63)
COLOR MATRIX Mg_R PHASE /COLOR	0SD:85:[Data]	050 . 82	0SD:85:[Data]	- 80h	- 0		Only User mode	00-0.00 00-0.00 0nly User mode		V1.00	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	V7.00	supports only 41h(-63)	supports only 41h(-63)
CORRECTION Mg_R PHASE	555.00.[bata]	900.00	000.00.[bata]	_ FFh	+127			$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			– BFh (+63)	– BFh (+63)	– BFh (+63)	– BFh (+63)		– BFh (+63)	– BFh (+63)
				000h	-150 -		Ver001	Ver1.00- Ver1.00- V1.00L01 00-0.00 00-0.00	V1.00 V3.00 Data/15 Data/15	V1.00	V1. 00	V1.00 Data/15	V1.00 Data/15	V1.00 Data/15		V1.00	
T PEDESTAL	OTP:[Data]	QTP	OTP:[Data]	096h - 12Ch	0 - +150												
				000h	-150		Ver001	V1.00L01 Ver1.00- Ver1.00- V1.00L01	V2. 00 Note (F	V1.00	V1. 00	V1.00	V1.00	V1.00		V1.00	
R GAIN	ORI:[Data]	QRI	ORI:[Data]	096h 	- 0 -			Dala / 5 00-0.00 00-0.00	Data/5			vata/5	υατα/5	vata/5			
				12Ch	+150		Ver001		V2 00	V1 00	W1 00	V1 00	V1 00	V1 00		V1 00	
R GAIN				- 096h	-150 - 0		1461.001	$\begin{bmatrix} ver 1. 00-0 \\ 00-0. 00 \end{bmatrix} = \begin{bmatrix} ver 1. 00-0 \\ 00-0. 00 \end{bmatrix} = \begin{bmatrix} ver 1. 00-0 \\ 00-0. 00 \end{bmatrix} = \begin{bmatrix} ver 1. 00-0 \\ 00-0. 00 \end{bmatrix}$	Data/5 V3.00 Data/5	¥1. UU		Data/5	Data/5	Data/5		¥1. UU	
	συι. [νατα]	וסש	יסטו י [המרק]	12Ch	+150												
				000h _	-150 -		Ver001	Ver1.00- Ver1.00- V1.00L01 00-0.00 00-0.00 00-0.00 00-0.00		V1.00	V1.00 supports only					V1.00 supports only	V1.00 supports only
R PEDESTAL	ORP:[Data]	QRP	ORP:[Data]	096h - 120b	0 - +150			-100 to -100 to +100			-100~+100					-100~+100	-100~+100
				12011	100											1	

UN145

				1	Data Cantanta								Demonto								
ITEM	Control Reply for Command Command	Confirmation Command	Reply for Confirmation Command	Data 000h	Control and Response to contol -150	E300/A E600	E800 E800A	E350 E650 E655	E750 E860 HE100	HC1500 Ver1.00-	HC1800 Ver1.00-	HE870 HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE /HE58/HE35/HE38/H 8/HN40/HN65/HN70	48 N3 UE70/UN70/UE65/UE6 D	3 HE75/HE42/HE68	UB300	HR140	UE150/UE155/
B PEDESTAL	OBP:[Data]	QBP	OBP:[Data]	096h 12Ch	0 - +150					00-0.00 -100 to +100	00-0.00 -100 to +100				supports only -100~+100					supports only -100~+100	supports only -100~+100
3D-DNR	ODD:[Data]	QDD	ODD:[Data]	00 01 02	OFF LOW HIGH			Ver001													
AUTO FOCUS	OAF:[Data]	QAF	OAF:[Data]	0 1	Manual FOCUS AUTO FOCUS			Ver.001 with AF LENS	V1. 00L01			V1.00	V3. 00	V1.00	V1. 00	V1. 00	V1.00	V1.00		V1. 00	V1. 00
DIGITAL GAIN UP	ODG:[Data]	QDG	ODG:[Data]	0 1 2 3 4 5	0dB 6dB 12dB 18dB 24dB 30dB			Ver001													
DIGITAL EXTENDER	ODE:[Data]	QDE	ODE:[Data]	0 1	OFF ON			Ver001		Ver1.10- 00-0.00	Ver1.00- 00-0.00				V1. 00	V1.00	V1.00	V1.00	V7. 40	V1.00	V1.00 On mean x1.4
				0 1 2	IR Through Normal 1/16 ND			Ver.001	I	Ver1.00- 00-0.00	Ver1.00- 00-0.00			V1.00 supports only Clear	V1.00 supports only Clear		V1.00 Oh: Clear 1h: 1/4 ND	V1.00 Oh: Clear 1h: 1/4 ND	V7.00 supports only Clear	V1.00 supports only Clear	V1.00 supports only Clear(Through
FILTER	OFT:[Data]	QFT	0FT:[Data]	3	1/64 ND <u>AW-HE130, HE40, HE70, HR140, UE150</u> AW, HE120, AK, HC1500, HC1800, UB200									1/4 ND 1/16 ND 1/64 ND	1/64 ND 1/8 ND		2h: 1/16 ND 3h: 1/64 ND 8h: Auto ND	2h: 1/16 ND 3h: 1/64 ND 8h: Auto ND	1/4 ND 1/16 ND 1/64 ND	1/64 ND 1/8 ND	1/4 ND 1/16 ND 1/64 ND
				0 1 2 3 4	Clear 1/4 ND 1/16 ND 1/64 ND 1/8 ND																
RED TALLY	TLR:[Data]	QLR	OLR:[Data]	0 1	OFF ON					Ver1.00- 00-0.00 supports	Ver1.00- 00-0.00 supports								V7. 00		V1. 00
				0	OFF					Control Command	Control Command								V7 00		V1 00
GREEN TALLY	TLG:[Data]	QLG	OLG:[Data]	1	ON					00-0.00 supports only Control	00-0.00 supports only Control										
BLACK SHADING	OSA:CO:[Data]	QSA: CO	OSA:CO:[Data]	0	OFF ON					Command Ver1.10-	Command Ver1.00- 00-0.00										
				6Ah 	0.30					Ver1.10- 00-0.00	Ver1.00- 00-0.00										
M GAMMA@DRS OFF	OSA:01:[Data]	QSA:01	OSA:01:[Data]	97h	0.75					Vor1 10	Vor1 00									_	
M GAMMA@DRS ON	OSA:02:[Data]	QSA:02	OSA:02:[Data]	- 80h - 8Ah						00-0. 00	00-0.00										
R GAMMA@DRS OFF	OSA:03:[Data]	QSA:03	OSA:03:[Data]	71h 	-15 - 0 - +15					Ver1.10- 00-0.00	Ver1.00- 00-0.00										
R GAMMA@DRS ON	OSA:04:[Data]	QSA:04	OSA:04:[Data]	76h - 80h - 8Ah	-10 - 0 +10					Ver1.10- 00-0.00	Ver1.00- 00-0.00										
B GAMMA@DRS OFF	OSA:05:[Data]	QSA:05	OSA:05:[Data]	71h - 80h - 8Fh	-15 - 0 - +15					Ver1.10- 00-0.00	Ver1.00- 00-0.00										
B GAMMA@DRS ON	OSA:06:[Data]	QSA:06	OSA:06:[Data]	76h - 80h - 8Ah	-10 - 0 +10					Ver1.10- 00-0.00	Ver1.00- 00-0.00										
M BLACK GAMMA	OSA:07:[Data]	QSA:07	OSA:07:[Data]	50h - 80h - B0h	-48 - 0 - +48					Ver1.10- 00-0.00	Ver1.00- 00-0.00								V7. 30		V1.00 supports only 78h(-8) - 88h(+8)
				6Ch - 71h	-20 - -15					Ver1.10- 00-0.00 support	Ver1.00- 00-0.00 support								V7. 30		
R BLACK GAMMA	OSA:08:[Data]	QSA:08	OSA:08:[Data]	_ 80h _ 8Fh	- 0 - +15					on ry 71h (-15) - 8Fh (+15)	- 71h (-15) 8Fh (+15)	-									
				94h6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6Ch6						Ver1.10-	Ver1.00-								V7. 30		
B BLACK GAMMA	OSA:09:[Data]	QSA:09	0SA:09:[Data]	71h _ 80h	-15 - 0					support only 71h(-15)	support only - 71h(-15)	_									
				- 8Fh - 94h	+15 - +20					0FII(+13)	0FII(+13)										
GAMMA SW	OSA:OA:[Data]	QSA:OA	OSA:OA:[Data]	0 1	OFF ON					Ver1.10- 00-0.00	Ver1.00- 00-0.00								V7. 30		
BLACK GAMMA SW	OSA:OB:[Data]	QSA:0B	OSA:OB:[Data]	0 1 1	0FF 0N				 V2_011_01	Ver1.10- 00-0.00 Ver1.10-	Ver1.00- 00-0.00								V7. 30		
EFFECT DEPTH	OSA:OC:[Data]	QSA:OC	OSA:OC:[Data]	5	5				1<->3	00-0.00	00-0.00								W7 20		
DRS SW	OSA:OD:[Data]	QSA: OD	OSA:OD:[Data]	0 1 0	OFF ON FILM REC				V2. 01L01	Ver1.10- 00-0.00 Ver1.10-	Ver1.00- 00-0.00 Ver1.00-	 							V7. 30		
CINE GAMMA SELECT	OSA:OE:[Data]	QSA:0E	OSA:OE:[Data]	1	VIDEO REC					00-0.00	00-0.00								V7 20		
BLACK STRETCH LEVEL(@FILM MENU & FILM REC)	OSA:OF:[Data]	QSA:OF	OSA:OF:[Data]	- 1Eh	- 30					00-0.00	00-0.00								W7 20		V1.00
DYNAMIC LEVEL (@FILM MENU & FILM REC)	OSA:10:[Data]	QSA:10	OSA:10:[Data]	1 2 3 4	300% 400% 500% 600%					00-0.00 suppert only 0(200%) - 3(500%)	00-0.00 suppert only 0(200%) - 3(500%)								supperts only 0(200%) - 3(500%)		
				22h _ 80h	70. 00% _ 93. 50%					Ver1.10- 00-0.00 support	Ver1.00- 00-0.00 support				V1.00 support only 22h(70.00%) -				V7.30 support only 4Ah(80.00%) -	V1.00 support only 22h(70.00%) -	V1.00 support only 22h(70.00%) -
M KNEE POINT (@VIDEO MENU)	OSA:20:[Data]	QSA:20	OSA:20:[Data]	_ B6h _ C2h	- 107.00% - 110.00% (1step=0.25%)					on I y 22h (70.00%) - B6h (107.00%)	on l y 22h (70. 00) – 0 B6h (107. 0 %)	D%			B6h(107.00%) (1step=0.5%)				IC2h (110. 00%)	B6h(107.00%) (1step=0.5%)	B6h(107.00%) (1step=0.5%)

					Data Contents								Pomarka								
ITEM	Control Reply for Command Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol Response to Confirmation	E300/A E600	E800 E800A E350 E650	E655 E750 E860	HE100 HC150	500 HC18	800 H	E870 HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE4 /HE58/HE35/HE38/HN 8/HN40/HN65/HN70	8 3 UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/U
				62h - 80h	30% _ 60%				Ver1.10 00-0.00 support	0- Ver1.0 0 00-0.0 t suppor	00 00 rt								V7.30 support only 62(30%)		V1.00
M KNEE POINT (@FILM MENU & VIDEO REC)	OSA:21:[Data]	QSA:21	OSA:21:[Data]	_ 9Eh _	90% 				only 62 (30%) -	only) 62(30% -	%)								– 9E (90%)		
				AFh 1Ch	107%				9E (90%)) 9E(90%	%)								V7_30		
	004-22-[Data]	064 - 00	004-00-[Data]	- 80h	0.00%				00-0.00	0 00-0.0	00								1.00		
K KNEE POINT	USA+22+[Data]	WSA - 22	USA.22.[Data]	E4h	+25.00% (1step=0.25%)																
				1Ch _	-25.00%				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00 00								V7. 30		
B KNEE POINT	OSA:23:[Data]	QSA:23	OSA:23:[Data]	80h - E4h	0.00% - +25.00%																
				00h	(1step=0.25%)				Ver1 10	0- Ver1 0	00				V1 00				V7_30	V1 00	V1 00
M KNEE SLOPE	OSA:24:[Data]	QSA:24	OSA:24:[Data]	- 63h	99				00-0.00 support	0 00-0.0 t suppor	00 rt				support only 00h(0) - 63h(99)					support only 00h(0) - 63h(99)	support only 00h(0) - 63h(9
(@VIDEO MENU)				C7h	199				00h (0) 63h (99)	- 00h (0)) 63h (99) – 9)										
				7Ch - 80b	150%				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00 00								V7. 30		V1.00 supports only 7Ch(150%) -
M KNEE SLOPE (@FILM MENU & VIDEO REC)	OSA:25:[Data]	QSA:25	OSA:25:[Data]	- 85h																	83h (500%)
				1Dh	-99				Ver1.10	0- Ver1.0	00								V7. 30		
R KNEE SLOPE (@VIDEO MENU)	OSA:26:[Data]	QSA:26	OSA:26:[Data]	- 80h -	0 				00-0. 00	0 00-0.0	00										
				E3h	+99				V. 1.10	0									1/7.00		
B KNEE SLOPE	054.27.[Data]	054 - 27	054.27.[Data]	1Dh - 80h	 0				Ver1.10 00-0.00	0	00								V7.30		
(@VIDEO MENU)	USA 27 · [Data]	W3A-27	USA 27 - [Data]	– E3h	- +99																
				4Ah 	80.00%				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00								V7. 30		
A.KNEE POINT (@VIDEO MENU)	OSA:28:[Data]	QSA:28	OSA:28:[Data]	80n - B6h	93. 50% 107. 00%																
				7Ch	(1step=0.25%) 100%				Ver1.10	0- Ver1.0	00								V7. 30		
A.KNEE LEVEL (@VIDEO MENU)	OSA:29:[Data]	QSA:29	OSA:29:[Data]	_ 85h	- 109% (1step=1%)				00–0. 00	0 00-0.0	00										
M WHITE CLIP LEVEL	OSA:2A:[Data]	QSA:2A	OSA:2A:{Data]	00h -	90%				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00				V1.00					V1.00	V1.00
		dontizh		13h 71h	-15%				Ver1.10	0- Ver1.0	00										
R WHITE CLIP LEVEL	OSA:2B:[Data]	QSA:2B	OSA:2B:{Data]	_ 80h _					00-0.00	0 00-0.0	00										
				8Fh	+15%				Ver1 10	0- Ver1 0	00										
B WHITE CLIP LEVEL	OSA:2C:[Data]	QSA:2C	OSA:2C:{Data]	- 80h					00-0.00	0 00-0.0	00										
				8Fh	+15%				V. 1.10	0					W1 00				N/7.00		141 00
KNEE SW	OSA:2D:[Data]	QSA:2D	OSA:2D:[Data]	0 1 2	MANUAL AUTO				Ver1.10 00-0.00	0	00				V1.00				V7.30	V1.00	VI. 00
WHITE CLIP	OSA:2E:[Data]	QSA:2E	OSA:2E:[Data]	0	OFF ON				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00				V1.00					V1.00	V1.00
HIGH COLOR	OSA:2F:[Data]	QSA:2F	OSA:2F:[Data]	0 1	OFF ON				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00 00										
				61h - 80h	-31 - 0				V1.00L01 Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00 00		Camera Main V3.05 supports only 81h(1)-91h(17)		V1.00	V1.00 supports only 81h(1)-91h(17)	V1.00 supports only 81h(1)-91h(17)	V1.00 supports only 81h(1)-91h(17)	V7.00	V1.00	V1.00
				9Fh	+31								for TOTAL DTL LEVEL (LOW)			for TOTAL DTL LEVE (LOW)	for TOTAL DTL LEVEL	for TOTAL DTL LEVEL (LOW)	-		
				61h	<u>AW-HE130. AW-HR140</u> 0																
TOTAL DTL LEVEL	OSA:30:[Data]	QSA:30	OSA:30:[Data]	80h -	+31																
				9Fh	+62 <u>AW-HE100</u>																
				80h - 8Eh	0 - 14																
				00h	0				Ver1.10	0- Ver1.0	00								V7. 00		
H DTL LEVEL	OSA:31:[Data]	QSA:31	OSA:31:[Data]	- 3Fh	63				00-0.00	0 00-0.0	00										
PEAK FREQUENCY	OSA:34:[Data]	QSA:34	0SA:34:[Data]	00h - 155	0				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00										
	557.54. [butu]	407.04		0	055				Vorl 10	0- Vor1 0	00										
KNEE APERTURE	OSA:35:[Data]	QSA:35	OSA:35:[Data]	0	0N 0				Ver1. 10 00-0. 00 Ver1. 10	0 00-0.0 0 Ver1.0	00 00 00										
KNEE APE LEVEL	OSA:36:[Data]	QSA:36	OSA:36:[Data]	- 5	5				00-0.00	0 00-0.0	00										
DFTAIL (+)	OSA:38:[Data]	QSA:38	OSA:38:[Data]	61h - 80h	-31 - 0				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00								V7. 00		V1.00
				_ 9Fh	+31																
DETAIL (-)	OSA:39:[Data]	054:39	[ata].02.420	61h - 80h	-31 - 0				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00								V7.00		V1.00
		407.00	557.55 [Data]	– 9Fh	+31																
DETAIL CLIP	OSA:3A:[Data]	QSA:3A	OSA:3A:[Data]	00h - 3Fh	0 - 63				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00 00										
				0	(G+R)/2 (G+B)/2 (00.0.0) (4				Ver1.10 00-0.00	0- Ver1.0 0 00-0.0	00								V7. 00		
				2 3 4	(2u+D+R)/4 (3G+B)/4 R																
	NSA · 3R · [Na+a]	054 · 3B	USV . 38 . [Data]	5 <u>AK-UB300</u>	G <u>AK-UB300</u>																
	USAN USA [Data]	GOV - OD	σοπτου τρατα]	0 1 2	(G+R) /2 (G+B) /2 (2G+B+R) /4																
				3 4 5	(3G+R) /4 R G																
SKIN TONE DETAIL				n	0FF				Vor1 10	0- Ver1 0	00								V7 00		V1 00
(HD)	OSA:40:[Data]	QSA:40	OSA:40:[Data]	1	ON				00-0.00	0 00-0.0	00										

/UN145 _____

					Det	Contonto											ם	amarika								
ITEM	Control Reply for Command Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol	Response to Confir	rmation	E300/A E600	E800 E8	300A E350	E650 E655	E750 E80	60 HE100	HC1500	HC18	00 HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/H /HE58/HE35/HE38/ 8/HN40/HN65/HN	E48 HN3 UE70/UN70/UE65/UE6 70	63 HE75/HE42/HE68	UB300	HR140	UE150/UE155/U
				0 1 2		OFF ON GET	OFF:Wipe out the rectangle ON:Display th	e						Ver1.10- 00-0.00 supports	Ver1.00 00-0.00 support	0- V1.00L01 0 ts								V7. 00		
SKIN GET	OSA:41:[Data]	QSA:41	OSA:41:[Data]				rectangle. GET:Get Flesh Noise Supproce (SKIN	\ \						only 0(0FF),1(0 N)	only 0 (0FF), N)	, 1 (0										
							Color standard.)																		
				0		0								Ver1.10-	Ver1.00	0										
SKIN DIL GORING (HD) SKIN TONE DTI	OSA:42:[Data]	QSA:42	OSA:42:[Data]	_ 7 00h		- 7 0								00-0.00 Ver1.10-	00-0.00 Ver1.00	0 0										
Y MAX (HD)	OSA:43:[Data]	QSA:43	OSA:43:[Data]	– FFh		255								00-0.00	00-0.00	0										
SKIN TONE DTL Y MIN (HD)	OSA:44:[Data]	QSA:44	OSA:44:[Data]	- FFh		 255								00-0.00	00-0.00	0										
SKIN TONE DTL I CENTER	OSA:45:[Data]	QSA:45	OSA:45:[Data]	00h _ FFh		0 _ 255								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0								V7. 00		
SKIN TONE DTL I WIDTH	OSA:46:[Data]	QSA:46	OSA:46:[Data]	00h 		0								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0								V7. 00		
(HD) SKIN TONE DTL	004 · 47 · [Data]	004 - 47	004 : 47 : [0-+-]	00h _		0								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0								V7. 00		
(HD)		QSA · 47	USA:4/.[Data]	FFh 00h		255 -127								Ver1.10-	Ver1.00	0										
SKIN TONE DTL Q PHASE (HD)	OSA:48:[Data]	QSA:48	OSA:48:[Data]	_ 80h _ FEb		- 0 - 128								00-0.00	00-0.00	U										
				0		OFF ON								Ver1.40- 00-0.00	Ver1.00	0 0								V7. 00		
SKIN TONE ZEBRA	OSA:49:[Data]	QSA:49	OSA:49:[Data]	746										with HD SDI BOARD	Vor1 00	0								W7 00		
				- 7Ch -		_ OdB _								00-0.00 support	00-0.00 support	0 t								V7.00		
LOW GAIN	OSA:50:[Data]	QSA:50	OSA:50:[Data]	80h _ 86h		12dB 30dB								7Ah (-6dB) - 86h (30dB)	7Ah (-6c - 86h (30c	dB) dB)										
				_ 88h		_ 36dB																				
				7Ah _ 7Ch		-6dB _ 0dB								Ver1.10- 00-0.00 support	Ver1.00 00-0.00 support	0- 0 t								V7. 00		
MID GAIN	OSA:51:[Data]	QSA:51	OSA:51:[Data]	- 80h -		- 12dB -								on I y 7Ah (-6dB) -	only 7Ah (-60 -	dB)										
				- 88h		36dB								8011(300B)	0011(300											
				7Ah _ 7Ch		-6dB - OdB								Ver1.10- 00-0.00 support	Ver1.00 00-0.00 support	0 0 t								V7. 00		
HIGH GAIN	OSA:52:[Data]	QSA:52	OSA:52:[Data]	_ 80h _		_ 12dB _								on I y 7Ah (-6dB) -	only 7Ah (-60 -	dB)										
				86h 88h		30dB _ 36dB								86h (30dB)	86h (30c	dB)										
A.IRIIS WINDOW	OSA:53:[Data]	QSA:53	OSA:53:[Data]	0 1 2		NORM1 NORM2 CENTER								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0										
IRIS MODE	OSA:54:[Data]	QSA:54	OSA:54:[Data]	0		LENS								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0										
IRIS GAIN @IRIS MODE = CAM	OSA:55:[Data]	QSA:55	OSA:55:[Data]	01h _ 0Ah	1 (A. 10 (A.	IRIS SLOW) _ IRIS FAST)								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0										
MODE @S.GAIN	OSA:60:[Data]	QSA:60	OSA:60:[Data]	0 1 2		S. GAIN1 S. GAIN2 S. GAIN3								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0								V7. 00		
TOTAL GAIN@S.GAIN		QSA:61	OSA:61:[Data]	00h - 48b		0dB - 72dB								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0										
				00h 03h		OdB 3dB								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0										
GAIN@S. GAIN	OSA:62:[Data]	0SA:62	OSA:62:[Data]	06n - 1Eh 21b		6dB _ 30dB 33dB																				
	[24-52-[Data]	054.62	054 · 62 · [Data]	24h 0		36dB 0FF								Ver1.10-	Ver1.00	0										
V MIX@S. GAIN	OSA:64:[Data]	QSA:63	OSA:63:[Data]	1 0 1		+6dB 0FF +6dB								00-0.00 Ver1.10- 00-0.00	00-0.00 Ver1.00 00-0.00	0 0 0										
				00h 06h 0Ch		0FF +6dB +12dB	if use AUTO ,Max Gain of AUTO is set u							Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0	V1.00 Support Only 00h(0FF)-12h(+18dB	V3.00 Support Only), 00h(0FF)-12h(+18dB)	V1.00 Support Only 00h(0FF)-18h(+24dB)	V1.00 Support Only 00h(0FF)-18h(+24d	V1.00 Support Only B) 00h(0FF)-	V1.00 Support Only 00h(OFF)-	V1.00 Support Only OOh(OFF)-	V7.00 Support Only 00h(OFF)-18h(+24dE	V1.00 Support Only 3) 00h(0FF)-18h(+24c	V1.00 Support Only B) 00h(0FF)-18h(+
FRAME MIX@S.GAIN	OSA:65:[Data]	QSA:65	OSA:65:[Data]	12h 18h 1Eh		+18dB +24dB +30dB	by the FRAME MIX MAX command										80h (AUTO)	80h (AUTO)			18h (+24dB) , 80h (AUTO)	18h (+24dB) , 80h (AUTO)	18h (+24dB) , 80h (AUTO)			
				80h		AUTO	(OSE:74:[Data])							Ver1 10-	Ver1 00	0										
H DETAIL LEVEL @S.GAIN	OSA:66:[Data]	QSA:66	OSA:66:[Data]	- 3Fh		- 63								00-0.00	00-0.00	0										
CRISP @S.GAIN	OSA:67:[Data]	QSA:67	OSA:67:[Data]	00h _ 1Fh		0 - 31								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0										
LEVEL DEPENDENT @S.GAIN	OSA:68:[Data]	QSA:68	OSA:68:[Data]	00h _ 0Fh		0 - 15								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0										
PEAK FREQUENCY @S.GAIN	OSA:69:[Data]	QSA:69	OSA:69:[Data]	00h _ 1Fh		0 - 31								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0										
M GAMMA @S.GAIN	OSA:6A:[Data]	QSA:6A	OSA:6A:[Data]	67h _ 80h		0. 30 _ 0. 55								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0				V1.00					V1.00	V1.00
& DRS OFF		┨───┤		94h 76h		0. 75 -10								Ver1.10-	Ver1.00	0										
M GAMMA @S.GAIN & DRS ON	OSA:6B:[Data]	QSA:6B	OSA:6B:[Data]	_ 80h _		0								00-0. 00	00-0.00	D										
		+		8Ah 738h -		+10 -200 -								Ver1.10- 00-0.00	Ver1.00 00-0.00	0 0										
M PED OFFSET @S.GAIN	OSA:6C:[Data]	QSA:6C	OSA:6C:[Data]	800h _ 8C8h		0 _ +200																				
R PED OFFSET	004-60-50 + 3	004+00		738h _ 800b		-200 - 0								Ver1.10- 00-0.00	Ver1.00 00-0.00	0										
@S. GAIN	USA.OD.[Data]	¥2∀∶¢Ŋ	USA.OD.[Data]			+200										_										
B PED OFFSET @S. GAIN	OSA:6E:[Data]	QSA:6E	OSA:6E:[Data]	738h 		-200 - 0 -								ver1.10- 00-0.00	Ver1.00 00-0.00	0										
				- 8C8h		+200																				



						Data	a Contents													Rema	rks	
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol	Response to Confirmation	E300/A	E600	E800 E80	A00	E350 E6	650 E655	E750	E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120
SCAN REVERSE	0SA : 70	D:[Data]	QSA:70	OSA:70:[Data]	0 1 2 3	REVERSE1 REVERSE2 REVERSE3 (L/	OFF E1 (L/R REVERSE) E2 (U/D REVERSE) /R & U/D REVERSE)			· · ·	·	·	·	·		_	Ver1.10- 00-0.00	Ver1.00- 00-0.00				
FRAME RATE RANGE @VARIABLE FRAME	0SA:7	l:[Data]	QSA:71	OSA:71:[Data]	0		60-4 60-6										Ver1.10- 00-0.00					
FRAME RATE @VARIABLE FRAME	0SA:72	2:[Data]	QSA:72	OSA:72:[Data]	04h - 2Ch		4fps -										Ver1.10- 00-0.00					
MATRIX TABLE	0SA:00):[Data]	QSA:00	OSA:00:[Data]	0	T T	TABLE A TABLE B										Ver1.10- 00-0.00	Ver1.00- 00-0.00				
D5600 @VIDEO MENU	0SA:80):[Data]	QSA:80	OSA:80:[Data]	0 1		OFF ON										Ver1.10- 00-0.00	Ver1.00- 00-0.00				
LIGHTING @FILM MENU	0SA:8	l:[Data]	QSA:81	OSA:81:[Data]	0 1	D. Ti	DAYLIGHT TUNGSTEN										Ver1.10- 00-0.00	Ver1.00- 00-0.00				
GAIN SELECT	OGS:	[Data]	QGS	OGS:[Data]	01h 04h 08h 06h 0Ch 0Eh	S S S	LOW MID HIGH S. GAIN1 S. GAIN2 S. GAIN3										Ver1.10- 00-0.00	Ver1.00- 00-0.00				
CAM ID	0SA:82	2:[Data]	QSA:82	OSA:82:[Data]	0 1 2		OFF BAR										Ver1.10- 00-0.00	Ver1.00- 00-0.00				
CAM ID POSI	0SA : 83	3:[Data]	QSA:83	OSA:83:[Data]	0 1 2 3	0 (Up 1 (Up 2 (Lo 3 (Lo	Jpper left) pper right) .ower left) ower right)										Ver1.10- 00-0.00	Ver1.00- 00-0.00				
					0		OFF A										Ver1.10- 00-0.00	Ver1.00- 00-0.00				
MATRIX TABLE	0SA : 84	4:[Data]	QSA:84	OSA:84:[Data]	2 <u>AK-UB300</u> 0 1 2	A	B <u>AK-UB300</u> OFF ON ON															
COLOR CORRECTION	0SA:8	5:[Data]	QSA:85	OSA:85:[Data]	0		OFF ON										Ver1.10-	Ver1.00-				
BAR SELECT	0SA : 86	6∶[Data]	QSA:86	OSA:86:[Data]	0 1 2 3 4 5 6	FUI FU SMP SM	ULL (16:9) ULL (4:3) IPTE (16:9) MPTE (4:3) ARIB EIAJ SPRIT										Ver1.10- 00-0.00	Ver1.00- 00-0.00				
FORMAT	OSA : 8	7:[Data]	QSA:87	OSA:87:[Data]	0h 1h 2h 3h 4h 5h 6h 7h 8h 9h Ah Bh Ch Dh Eh 10h 11h 12h 13h 14h 15h 16h 17h 18h 19h 1Ah 15h 16h 17h 18h 19h 1Ah 18h 19h 1Ah 18h 19h 1Ah 18h 19h 1Ah 18h 19h 1Ah 18h 19h 1Ah 18h 19h 1Ah 18h 19h 1Ah 18h 19h 1Ah 18h 19h 1Ah 18h 19h 1Ah 18h 19h 10h 11h 19h 11h 19h 11h 19h 11h 19h 11h 19h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 10h 11h 19h 10h 11h 19h 10h 10h 11h 19h 10h 11h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 11h 19h 10h 10h 11h 19h 10h 11h 10h 11h 19h 10h 10h 11h 19h 10h 10h 10h 10h 10h 10h 10h 10h 10h 10	7 72/ 7 11 108 108 11 108 108 108 108 480 480 480 480 5 5 57 108 11 1080/23.98p 216 2 216 2 216 2 216 2 216 2 216 2 11 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 211 2160 2160	720/60p 20/59.94p 720/50p 1080/60i 1080/59.94i 1080/50i 080/30psF 10/29.97psF 080/25psF 080/24psF 10/23.98psF 80/59.94i 0/29.97psF 576/50i 176/25psF 180/59.94p 576/50p 1080/25p 1080/25p 1080/25p 1080/25p 1080/25p 60/23.98p 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25psF 160/25p								V1 (M sL or 1 4 (4 (4 i) 9. (E Mc sL or 2 ; 5 i) 0 i 25	.00L01 Model) upports (720/59.9),4(1080 (720/59.94 ,6(480/2 97psF). E,MC odel) upports (720/50p) (1080/50 ,D(576/5),E(576/ uppsF).	<pre>Ver1.10- 00-0.00 supports only 0 (720/60p) 0 (720/60p) 0 (720/59. 8 94p),2(720 4 /50p),3(10 2 80/60i),4(1080/59.94 i),5(1080/ 50i),6(108 0/30p),7(1 080/29.97p),8(1080/2 5p),9(1080 0 /24p),A(10 80/23.98p) /</pre>	Ver1.00- 00-0.00 supports only 4(1080/59. 94i),5(108 0/50i).	V1.00L01 (N Model) supports only 1(720/59.9 4p),4(1080 /59.94i),E (480/59.94 i). (E,MC Model) supports only 2(720/50p) ,5(1080/50 i),D(576/5 0i).	<pre>V1. 00L01 [N Model] supports only 1h(720/59.94p),4h(10 80/59.94i),Bh(480/59 .94i) [E, MC Model] supports only 2h(720/50p),5h(1080/ 50i),Dh(576/50i) V2. 00 [H Model/59.94Hz] supports only 1h(720/59.94p),4h(10 80/59.94i),Bh(480/59 .94i),10h(1080/59.94 p),7h(1080/29.97psF) [H Model/50Hz] supports only 2h(720/50p),5h(1080/ 50i),Dh(576/50i),11h (1808/50p),8h(1080/2 5psf) [S Model/59.94Hz] supports only 1h(720/59.94p),4h(10 80/59.94i),Bh(480/59 .94i),7h(1080/29.97p sF) [S Model/50Hz] supports only 2h(720/50p),5h(1080/ 50i),Dh(576/50i),8h(1080/25psf)</pre>	V3.00 [H Model/59.94Hz] supports only 1h(720/59.94p),4h(10 80/59.94i),Bh(480/59.94p) [H Model/50Hz] supports only 2h(720/50p),5h(1080, 50i),Dh(576/50i),111 (1808/50p),8h(1080/5 5psf),13h(576/50p) [S Model/59.94Hz] supports only 1h(720/59.94p),4h(10 80/59.94i),Bh(480/59. 94i) [S Model/50Hz] supports only 2h(720/50p),5h(1080, 50i),Dh(576/50i)	V1.00L01 [59.94Hz] [59. supports only [59. supports only [59.94], 4h (1 9 080/59.94], 1Bh (480/ 4 59.94], 10h (1080/59 7h (.94p), 12h (480/59.94 Ah (p) [50Hz] 12h (480/59.94 Ah (p) [50Hz] 12h (1080 16h 2 /50i), Dh (576/50i), 1 [50H 16h (1808/50p), 13h (57 6/50i), 1 16h (1808/50p), 13h (57 6/50i), 1 16h (1808/50p), 13h (57 6/50i), 1 15h (1808/50p), 1 15h (180

					Rema	arks								
0	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/L
		Ver1.10- 00-0.00	Ver1.00- 00-0.00											
		Ver1.10- 00-0.00												
		Ver1.10- 00-0.00												
		Ver1.10- 00-0.00	Ver1.00- 00-0.00									V7. 00		
		Ver1.10- 00-0.00	Ver1.00- 00-0.00											
		Ver1.10- 00-0.00	Ver1.00- 00-0.00											
		Ver1.10- 00-0.00	Ver1.00- 00-0.00									V7. 00		
		Ver1.10- 00-0.00	Ver1.00- 00-0.00											
		Ver1.10- 00-0.00	Ver1.00- 00-0.00											
		Ver1.10- 00-0.00	Ver1.00- 00-0.00									V7. 00		
		Vor1 10-	Vorl 00-									V7_00		
		00-0.00	00-0.00											
		00-0.00	00-0.00											
	V1.00L01 (N Model) supports only 1(720/59.9 4p),4(1080 /59.94i),B (480/59.94 i),C(480/2 9.97psF). (E,MC Model) supports only 2(720/50p) ,5(1080/50 i),D(576/5 0i),E(576/ 25psF).	Ver1. 10- 00-0. 00 supports only 0(720/60p) , 1(720/59. 94p), 2(720 /50p), 3(10 80/60i), 4(1080/59. 94 i), 5(1080/ 50i), 6(108 0/30p), 7(1 080/29. 97p), 8(1080/2 5p), 9(1080 /24p), A(10 80/23. 98p)	Ver1.00- 00-0.00 supports only 4(1080/59. 94i),5(108 0/50i).	V1.00L01 (N Model) supports only 1(720/59.9 4p),4(1080 /59.94i),B (480/59.94 i). (E,MC Model) supports only 2(720/50p) ,5(1080/50 i),D(576/5 0i).	V1. 00L01 [N Model] supports only 1h(720/59.94p),4h(10 80/59.94i),Bh(480/59 .94i) [E, MC Model] supports only 2h(720/50p),5h(1080/ 50i),Dh(576/50i) V2.00 [H Model/59.94Hz] supports only 1h(720/59.94p),4h(10 80/59.94i),Bh(480/59 .94i),10h(1080/59.94 p),7h(1080/29.97psF) [H Model/50Hz] supports only 2h(720/50p),5h(1080/ 50i),Dh(576/50i),11h (1808/50p),8h(1080/2 5psf) [S Model/59.94p],4h(10 80/59.94i),Bh(480/59 .94i),7h(1080/29.97p sF) [S Model/50Hz] supports only 2h(720/50p),5h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),8h(1080/ 50i),Dh(576/50i),	V3.00 [H Model/59.94Hz] supports only 1h(720/59.94p),4h(10 80/59.94i),Bh(480/59. 94i),10h(1080/59.94 p),12h(480/59.94p) [H Model/50Hz] supports only 2h(720/50p),5h(1080/ 50i),Dh(576/50i),11h (1808/50p),8h(1080/2 5psf),13h(576/50p) [S Model/59.94Hz] supports only 1h(720/59.94p),4h(10 80/59.94i),Bh(480/59. 94i) [S Model/50Hz] supports only 2h(720/50p),5h(1080/ 50i),Dh(576/50i)	V1.00L01 [59.94Hz] supports only 1h(720/59.94p),4h(1 080/59.94i),10h(1080/59 .94p),12h(480/59.94 p) [50Hz] supports only 2h(720/50p),5h(1080 /50i),Dh(576/50i),1 1h(1808/50p),13h(57 6/50p)	V1.00 [59.94Hz] supports only 1h (720/59.94p) 4h (1080/59.94i) 7h (1080/29.97psF) Ah (1080/23.98psF) 10h (1080/23.98p) 12h (480/59.94p) 14h (1080/23.98p) [50Hz] supports only 2h (720/50p) 5h (1080/50i) 8h (1080/25psF) 11h (1080/25p) 15h (1080/25p)	V1.00 === HDMI Model === [59.94Hz] supports only 1h(720/59.94p) 4h(1080/59.94i) 7h(1080/29.97psF) 10h(1080/29.97p) 80h(Auto) [50Hz] supports only 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 11h(1080/25p) 80h(Auto) === SDI Model === [59.94Hz] supports only 1h(720/59.94p) 4h(1080/29.97psF) 14h(1080/29.97psF) 14h(1080/29.97p) [50Hz] supports only 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 15h(1080/25p)	v1.00 [59.94Hz] supports only 1h(720/59.94p) 4h(1080/59.94p) 7h(1080/29.97psF) 10h(1080/29.97p) 17h(2160/29.97p) 80h(Auto) [50Hz] supports only 2h(720/50p) 5h(1080/25psF) 11h(1080/25p) 18h(2160/25p) 80h(Auto)	v1.00 [59.94Hz] supports only 1h(720/59.94p) 4h(1080/59.94p) 7h(1080/29.97psF) 10h(1080/29.97p) 80h(Auto) [50Hz] supports only 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 11h(1080/25p) 80h(Auto)	V7. 30 [59. 94Hz] supports only 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 (2160/29. 97p) 19h (2160/29. 97psF) 1Eh (2160/23. 98psF) 1Fh (2160/60p) 20h (1080/60p) 44h (1080/59. 94i CROP) 50h (1080/59. 94j CROP) [50Hz] supports only 02h (720/50p) 05h (1080/50i) 08h (1080/25psF) 11h (1080/50p) 18h (2160/25p) 1Ah (2160/25psF) 45h (1080/50p CROP) 51h (1080/50p CROP)	V1.00 [59.94Hz] supports only 1h(720/59.94p) 4h(1080/59.94i) 7h(1080/29.97psF) Ah(1080/23.98psF) 10h(1080/23.98p) [50Hz] supports only 2h(720/50p) 5h(1080/50i) 8h(1080/25psF) 11h(1080/50p) 15h(1080/25p)	V1.00 [59.94Hz] supports only 01h (720/59.94p 04h (1080/59.94 07h (1080/29.97 10h (1080/29.97 10h (1080/29.97 16h (1080/23.98 (over 59.94i/ 17h (2160/59.94 [50Hz] supports only 02h (720/50p) 05h (1080/50i) 08h (1080/25psF 11h (1080/25p) 18h (2160/25p) 18h (2160/25p) 18h (2160/24p) 22h (1080/24p) [23.98Hz] supports only 0Ah (1080/23.98 1Bh (2160/23.98 23h (1080/23.98



ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol
STATUS	0SA:88	:[Data]	QSA:88	OSA:88:[Data]	0 1	OFF ON
MENU ON BAR	0SA:89	:[Data]	QSA:89	OSA:89:[Data]	0 1	OFF ON
MENU SEL	-		QSA:8A	OSA:8A:[Data]	0 1	
SHUTTER MODE	0SA:90	:[Data]	QSA:90	OSA:90:[Data]	1 2 3	OFF ON SYNCHRO
					0	<u>VIDEO N</u> 1/100
					1 2 3	1/120 1/250
					3 4 5	1/300 1/100 1/200
SHUTTER SPEED	OSA:91	:[Data]	QSA:91	OSA:91:[Data]	0	<u>FILM M</u> 180.00
					1 2 2	172. 8d 144. 0d
					3 4 5	90. 0d 45. 0d
	06:420		054:40	004-40-[Data]	0	OFF
	054.40		QSA · AU		1 58h	0N -40
H PHASE-COARSE @HD SYNC & 720	0SA:A1	:[Data]	QSA:A1	OSA:A1:[Data]	80h -	0
					A8h 44h	+40
H PHASE-COARSE @HD SYNC & 1080	0SA:A2	:[Data]	QSA:A2	OSA:A2:[Data]	_ 80h _	0
					BCh 08h	+60
H PHASE-COARSE @SD SYNC	0SA : A3	:[Data]	QSA:A3	OSA:A3:[Data]	- 80h	- 0
					F8h	+120
H PHASE-FINE	0SA:A4	:[Data]	QSA:A4	OSA:A4:[Data]	- 80h	- 0
UPD STNC & 720					_ ADh	+45
H PHASE-FINE	0SA : A5	:[Data]	054 . 45	0\$4·45·[Data]	53h 80h	-45 - 0
@HD SYNC & 1080	00/1/10		407.10	UNA NO LUALAJ	_ ADh	_ +45
H PHASE-FINE	054 : 460		054:46		53h - 80h	-45 - 0
@SD SYNC	034.40		QSA - AO	USA.AO.[Data]	ADh	- +45
HD-SD PHASE CRS					79h	-7 -0
@HD_SYNC	0SA:A7	:[Data]	QSA:A7	OSA:A7:[Data]	- 88h	- +7
					1Dh -	-99 -
@HD_SUNC	0SA : A8	:[Data]	QSA:A8	OSA:A8:[Data]	80h - F3h	0 -+99
					7Ch _	-4
SD-HD PHASE CRS @SD SYNC	0SA : A9	:[Data]	QSA:A9	OSA:A9:[Data]	80h	0 -
					1Dh	-99
@SD_HD_PHASE_FINE @SD_SYNC (D/C_BOARD)	OSA : AA	:[Data]	QSA:AA	OSA:AA:[Data]	80h	0
HD/SD V PHASE					0	+33 HD
@SD SYNC (D/C BOARD)	OSA : AB	:[Data]	QSA : AB	OSA:AB:[Data]		
SC COARSE @SD SYNC (D (C ROADD)	OSA : AC	:[Data]	QSA : AC	OSA:AC:[Data]	1 - 8	- 8
					19Ch	-100
@SD_SYNC (D/C_BOARD)	OSA : AD	:[Data]	QSA : AD	OSA:AD:[Data]	200h	0
SC-H COARSE					264n 1	+100
@HD SYNC or NO SYNC (D/C BOARD)	OSA : AE	:[Data]	QSA:AE	OSA:AE:[Data]	8	8
SC-H FINE	054 - 45	· [Data]	054 - 45		19Ch 200h	-100 - 0
@HD SYNC or NO SYNC	004.41	·[Data]	QOA · AF	USA · AF · [Data]	_ 264h	_ +100
					61h - 80b	-31
HIGH	OSA:B1	:[Data]	QSA:B1	OSA:B1:[Data]	9Fh	+31
TOTAL DTL LEVEL	0SE : 00	· [Data]	055.00	005-00-[Data]	00h -	0 _
(D/C BOARD)	002.00		432.00		3Fh 00h	63
H DTL LEVEL (D/C BOARD)	0SE:01	:[Data]	QSE:01	OSE:01:[Data]	3Fh	- 63
CRISP	0SE · 02	·[Data]	0SE · 02	092 · 102 · [Data]	00h -	0 _
(D/C BOARD)					3Fh 1	63 1.89M
PEAK FREQUENCY					2 3	2. 18M 2. 56M
(D/C BOARD)	0SE:03	:[Data]	QSE:03	OSE:03:[Data]	5 6	4. 00Mi 5. 28Mi
	_				7 00h	6. 75M
LEVEL DEPENDENT (D/C BOARD)	0SE:04	:[Data]	QSE:04	OSE:04:[Data]	_ 1Eh	30%
DARK DETAIL	0SE:05	:[Data]	QSE:05	OSE:05:[Data]	0 - 7	0 (0FF
(υ/ υ DUAKU)					/ 00h	0
KNEE APERTURE (D/C BOARD)	0SE:06	:[Data]	QSE:06	OSE:06:[Data]	3Fh	63
+CLIP	00E · 07	:[Data]	0SE · 07	<u>NSE · N7 · [Na+a]</u>	00h -	0 -
(D/C BOARD)		[40L·07	552.07.[Data]	3Fh 00h	63 0
-CLIP (D/C BOARD)	0SE:08	:[Data]	QSE:08	OSE:08:[Data]	_ 3Fh	63
CORNER DETAIL	0SF : 09	:[Data]	QSE:09	OSE:09:[Data]	00h	0 -
(n/g rnakn)		-		L	1Fh	31

ol Ind	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Data Contents Control and Response to contol Response to Confirmation	E	300/A E600	E800 E8	800A E350	E650 E	E655 E750	E860 HE1	00 HC150	0 HC180	00 HE870	HE5	Remarks 50 HE60	HE120	HE13	HE40/HE65/HE70/H 30 /HE58/HE35/HE38/ 8/HN40/HN65/HN	E48 HN3 UE70/UN70/UE65/UE6 70	63 HE75/HE42/HE68	UB300	
OSA:88:	[Data]	QSA:88	OSA:88:[Data]	0 1 0	OFF ON OFF							V1.00L	01 Ver1.10- 00-0.00	- Ver1.00 00-0.00)- V1.00L01)	V1. 00	V3. 00	V1.00	V1.00	V1. 00	V1.00	V1.00	V7. 20	V1.00
OSA:89:	[Data]	QSA:89	OSA:89:[Data]	0	ON ON VIDEO MENU								00-0.00 Ver1.10-	- Ver1.00 - Ver1.00)									
	_	QSA:8A	OSA:8A:[Data]	1	FILM MENU OFF								00-0.00 Ver1.10-	00-0.00 - Ver1.00))									
OSA:90:	[Data]	QSA:90	OSA:90:[Data]	23	ON SYNCHRO SCAN								00-0.00	00-0.00)									L
OSA:91:	[Data]	QSA:91	OSA:91:[Data]	0 1 2 3 4 5 5 0 1 2 3 4 5	VIDEO MENU 1/100s 1/120s 1/250s 1/500s 1/1000s 1/2000s FILM MENU 180. Odeg 172. 8deg 144. Odeg 120. Odeg 90. Odeg 90. Odeg								Ver1.10- 00-0.00	- Ver1.00 00-0.00)									
OSA:AO:	[Data]	QSA : AO	OSA:AO:[Data]	0 1	0FF 0N								Ver1.10- 00-0.00	- Ver1.00 00-0.00)									
				58h	-40								Ver1.10- 00-0.00	- Ver1.00 00-0.00)									
0SA:A1:	[Data]	QSA:A1	OSA:A1:[Data]	80h - A8h	0 - +40 -60								Ver1 10-	- Verl 00)									
0SA : A2 :	[Data]	QSA:A2	OSA:A2:[Data]	- 80h	0								00-0.00	00-0.00)									1
				BCh	+60								Vor1 10	Vor1 00	<u></u>									I
0SA:A3:	[Data]	QSA: A3	NSA:A3:[Data]	08n _ 80h	-120 - 0								00-0.00	- Ver1.00 00-0.00)									
				– F8h	+120																			
0SA:A4:	[Data]	QSA:A4	OSA:A4:[Data]	53h - 80h	-45 - 0								Ver1.10- 00-0.00	- Ver1.00 00-0.00)									
				ADh	+45																			L
0SA:A5:	[Data]	QSA: A5	OSA:A5:[Data]	53h 80h	-45 - 0								Ver1.10- 00-0.00	- Ver1.00 00-0.00)-									
				– ADh	+45																			L
0SA:A6:	[Data]	QSA:A6	OSA:A6:[Data]	53h - 80h	-45 - 0								Ver1.10- 00-0.00	- Ver1.00 00-0.00)									
				– ADh	+45																			L
054 · 47 ·	[Data]	74-420	0\$4:47:[Data]	79h 80h	7 - 0								Ver1.10- 00-0.00	- Ver1.00 00-0.00)									
054.47.	[Data]	QSA . A7	USA.A7.[Data]	_ 88h	+7																			1
	5D]			1Dh -	-99								Ver1.10- 00-0.00	- Ver1.00 00-0.00)									
0SA : A8 :	[Data]	QSA:A8	OSA:A8:[Data]	– E3h	- +99																			1
				7Ch	-4								Ver1.10- 00-0.00	- Ver1.00 00-0.00)									
OSA : A9 :	[Data]	QSA:A9	OSA:A9:[Data]	80h - 84h	0 - +4																			1
				1Dh -	-99 -								Ver1.30- 00-0.00	- Ver1.00 00-0.00)									
OSA:AA:	[Data]	QSA:AA	OSA:AA:[Data]	80h - E3h	0 - +99								with D/O BOARD	C with D/ BOARD	′C									1
054 · 48 ·	[Data]	84 · 420	0\$4.4R.[Data]	0 1	HD SD								Ver1.30- 00-0.00	- Ver1.00 00-0.00)									
007.70.		454.40		1	1								with D/C BOARD Ver1.30-	C with D/ BOARD - Ver1.00	/C)									
OSA : AC :	[Data]	QSA:AC	OSA:AC:[Data]	- 8	- 8								00-0.00 with D/0	00-0.00 C with D/) /C									1
				19Ch -	-100								Ver1.30- 00-0.00	- Ver1.00 00-0.00)									
OSA : AD :	[Data]	QSA:AD	OSA:AD:[Data]	200h 	0 - +100								with D/C BOARD	C with D/ BOARD	′C									1
067 - 76 -		054-45	054 · 45 · [Do+o]	1	1								Ver1.30- 00-0.00	- Ver1.00 00-0.00)									
USA · AL ·		Q3A · AL	USA: AL: [Data]	8 19Ch	-100								with D/C BOARD Ver1 10-	C with D/ BOARD	/C									l
OSA:AF:	[Data]	QSA:AF	OSA:AF:[Data]	200h	- 0								00-0.00	00-0.00)									1
					+100												Comoro Main V	05		V1.00	V1 00	V1 00		
0SA:B1:	[Data]	QSA:B1	OSA:B1:[Data]	- 80h	- 0												supports only 82h(2)-92h(18)			supports only 82h(2)-92h(18)	supports only 82h(2)-92h(18)	supports only 82h(2)-92h(18)		1
				9Fh	+31												(HIGH)			(HIGH)	(HIGH)	(HIGH)		L
0SE : 00 :	[Data]	QSE:00	OSE:00:[Data]	00h 	0 - 63								Ver1.30- 00-0.00 with D/0	- Ver1.00 00-0.00 C with D/)) /C									
				00h	0								BOARD Ver1.30-	BOARD - Ver1.00)									
0SE:01:	[Data]	QSE:01	OSE:01:[Data]	3Fh	63								with D/C BOARD	C with D/ BOARD	C									
0SE:02:	[Data]	QSE:02	OSE:02:[Data]	- 3Fh	- 63								00-0.00 with D/0	00-0.00 c with D/) /C									1
				1 2	1.89MHz 2.18MHz								BUARD Ver1.30- 00-0.00	- Ver1.00 00-0.00)									
0SE:03:	[Data]	QSE:03	OSE:03:[Data]	3 4 5	2. 56MHz 3. 17MHz 4. 00MHz								with D/O BOARD	C with D/ BOARD	C .									1
				6 7	5. 28MHz 6. 75MHz																			1
0SE:04:	[Data]	QSE:04	OSE:04:[Data]	00h 	0%								Ver1.30- 00-0.00	- Ver1.00 00-0.00)									
				0	0 (0FF)								BOARD Ver1. 30-	- Ver1.00)									[
0SE:05:	[Data]	QSE:05	OSE:05:[Data]	7	7								00-0.00 with D/0 BOARD	00-0.00 With D/ BOARD) /C									1
0SE:06:	[Data]	QSE:06	OSE:06:[Data]	00h - 2Eh	0 - 62								Ver1.30- 00-0.00 with D//	- Ver1.00 00-0.00)-) /C									
				00h	0								BOARD Ver1. 30-	BOARD - Ver1.00)									
0SE:07:	[Data]	QSE:07	OSE:07:[Data]	_ 3Fh	63								00-0.00 with D/0	00-0.00 C with D/) /C									1
0SE:08:	[Data]	QSE:08	OSE:08:[Data]	00h 									Ver1. 30- 00-0. 00	- Ver1.00)									
				۶۲n O0h	0								BOARD Ver1.30-	BOARD - Ver1.00)									
OSE:09:	[Data]	QSE:09	OSE:09:[Data]	– 1Fh	31								00-0.00 with D/0 BOARD	00-0.00 With D/ BOARD) /C									1
				-		1						1				÷					-	-		

				Rema	arks								
)	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/L
1	Ver1.10- 00-0.00	Ver1.00- 00-0.00	V1.00L01	V1.00	V3. 00	V1.00	V1.00	V1.00	V1.00	V1.00	V7. 20	V1.00	V1.00
	Ver1.10- 00-0.00	Ver1.00- 00-0.00											
	Ver1.10- 00-0.00	Ver1.00- 00-0.00 Vor1.00											
	00-0.00	00-0.00											
	Ver1.10- 00-0.00	Ver1.00- 00-0.00											
	Ver1.10- 00-0.00	Ver1.00- 00-0.00											
	Ver1.10- 00-0.00	Ver1.00- 00-0.00											
	Ver1.10- 00-0.00	Ver1.00- 00-0.00											
	Ver1.10- 00-0.00	Ver1.00- 00-0.00											
	Ver1.10- 00-0.00	Ver1.00- 00-0.00											
	Ver1.10-	Ver1.00-											
	00 0.00	00 0.00											
	Ver1.10-	Ver1.00-											
	Ver1.10- 00-0.00	Ver1.00- 00-0.00											
	Ver1.10-	Ver1.00-											
	00-0.00	00-0.00											
	Ver1.10-	Ver1.00-											
	00-0.00	00-0.00											
	Ver1.30-	Ver1.00-											
	00-0.00 with D/C BOARD	00-0.00 with D/C BOARD											
	Ver1.30-	Ver1.00-											
	00-0.00 with D/C BOARD	00-0.00 with D/C BOARD											
	Ver1.30- 00-0.00 with D/C	Ver1.00- 00-0.00 with D/C											
	BOARD Ver1.30-	BOARD Ver1.00-											
	with D/C BOARD	with D/C BOARD											
	Ver1.30-	Ver1.00-											
	00-0.00 with D/C BOARD	00-0.00 with D/C BOARD											
	Ver1.10- 00-0.00	Ver1.00- 00-0.00											
_													
					Camera Main V3.05 supports only 82h(2)-92h(18)			V1.00 supports only 82h(2)-92h(18)	V1.00 supports only 82h(2)-92h(18)	V1.00 supports only 82h(2)-92h(18)			
					for TOTAL DTL LEVEL (HIGH)			for TOTAL DTL LEVEL (HIGH)	for TOTAL DTL LEVEL (HIGH)	for TOTAL DTL LEVEL (HIGH)			
	Ver1.30- 00-0.00	Ver1.00- 00-0.00											
	with D/C BOARD Ver1.30-	with D/C BOARD Ver1.00-											
	00-0.00 with D/C BOARD	00-0.00 with D/C BOARD											
	Ver1.30- 00-0.00 with D/C	Ver1.00- 00-0.00 with D/C											
	BOARD Ver1.30-	BOARD Ver1.00-											
	with D/C BOARD	with D/C BOARD											
	Ver1.30- 00-0.00	Ver1.00- 00-0.00											
	with D/C BOARD Ver1 30-	with D/C BOARD Ver1 00-											
	00-0.00 with D/C	00-0.00 with D/C											
	Ver1. 30- 00-0. 00	Ver1.00- 00-0.00											
	With D/C BOARD Ver1 30-	with D/C BOARD Ver1 00-											
	00-0.00 with D/C	00-0.00 with D/C											
	Ver1. 30- 00-0. 00	Ver1.00- 00-0.00											
	with D/C BOARD Ver1.30-	with D/C BOARD Ver1.00-											
	00-0.00 with D/C	00-0.00 with D/C											

ITEM	Control Command	Reply for Control	Confirmation Command	Reply for Confirmation Command	Data	Data Contents Control and Response to Confirmation		E300/A E600
CHROMA DETAIL (D/C BOARD)	0SE : 0 <i>A</i>	A: [Data]	QSE:0A	OSE:OA:[Data]	00h 	Response to contol		
CHROMA DTL CRISP (D/C BOARD)	OSE : OE	3:[Data]	QSE:0B	OSE:OB:[Data]	00h - 3Fh	0 - 63		
DETAIL SOURCE (D/C BOARD)	0SE : 00	C:[Data]	QSE : OC	OSE:OC:[Data]	0 1 2 3	(G+R) /2 (G+B) /2 (2G+B+R) /4 (3G+B) /4		
SKIN TONE DETAIL (D/C BOARD)	0SE:10):[Data]	QSE:10	OSE:10:[Data]	0 1	OFF ON		
SKIN TONE LEVEL (D/C BOARD)	0SE:11	l:[Data]	QSE:11	OSE:11:[Data]	0 1 2	LOW MID HIGH		
SKIN TONE ZEBRA (D/C BOARD)	0SE:12	2:[Data]	QSE:12	OSE:12:[Data]	0 1	OFF ON		
SKIN TONE PHASE (D/C BOARD)	0SE:13	3:[Data]	QSE:13	OSE:13:[Data]	5Dh - 7Bh - 99h	93 - 123 - 153		
SKIN TONE WIDTH (D/C BOARD)	0SE:14	↓:[Data]	QSE:14	OSE:14:[Data]	01h - 14h	1 - 20		
SKIN TONE CRISP (D/C BOARD)	OSE:15	5:[Data]	QSE:15	OSE:15:[Data]	0 - 7	0 - 7		
D/C MODE (D/C BOARD)	0SE : 20):[Data]	QSE:20	OSE:20:[Data]	0 1 2 3	SIDE CUT SQUEEZE LetterBOX Link		
VBS SETUP (D/C BOARD)	0SE:21	l:[Data]	QSE:21	OSE:21:[Data]	0 1	0. 0% 7. 5%		
CHARACTER MIX (D/C BOARD)	0SE:22	2:[Data]	QSE:22	OSE:22:[Data]	0 1 2 3	ALL SD (VBS + SD-SDI) VBS SD-SDI		
2D LPF (D/C BOARD)	0SE:23	3:[Data]	QSE:23	OSE:23:[Data]	0 1 2 3	OFF LOW MID HIGH		
CHARACTER MIX (HD SDI BOARD)	0SE : 30):[Data]	QSE:30	OSE:30:[Data]	0 1	ALL OPTION		
CHARACTER MIX SELECT	OSD : 98 : [Da	ta1]:[Data2]	QSD:98:[Data1]	OSD:98: [Data1]:[Data2]	<u>Data1</u> 0 1 2 <u>Data2</u> 0 1 2	Output Browser/Video SDI/HDMI.Component OPTION <u>Character Mix Select</u> Off On Off By Browser		
ERROR NOTICE	-		QER	0ER:[Data]	0 1 2	Normal Fan Error Other Error	If the Camera made trouble,Camera sent "OER:[Data]" periodically.	
PRESET MATRIX SELECT	0SE:31	l:[Data]	QSE:31	OSE:31:[Data]	0 1 2 3	NORMAL EBU MATRIX NTSC MATRIX USER		
SOFT SKIN	0SE : 32	2:[Data]	QSE:32	OSE:32:[Data]	0 1 2 3	OFF LOW MID HIGH		
DRS SELECT	0SE : 33	3:[Data]	QSE:33	OSE:33:[Data]	0 1 2 3	OFF LOW MID HIGH		
HDMI COLOR VideoSampling	0SE : 68	3:[Data]	QSE:68	OSE:68:[Data]	0 1 2 3 4	RGB (NOR) RGB (ENH) YPbPr (422) YPbPr (444) YPbPr (420)		
PUSH AUTO FOCUS	0SE:69):[Data]			1	PUSH AUTO DISABLE		
DIGITAL ZOOM ENABLE	0SE : 70):[Data]	QSE : 70	OSE:70:[Data]		ENABLE		
PRESET SCOPE	0SE : 71	l∶[Data]	QSE:71	OSE:71:[Data]	0 1 2 0 1 2	MODE A MODE B MODE C OFF NORMAL CINEMA		
GAMMA TYPE	0SE : 72	2:[Data]	QSE : 72	OSE:72:[Data]	0 1 2 3 4 5 6 7	AW-HE130. AW-HR140. AW-UE150 HD SD FILMLIKE1 FILMLIKE2 FILMLIKE3 FILM REC VIDE0 REC HLG		
BACK LIGHT COMPENSATION	0SE : 73	3:[Data]	QSE:73	OSE:73:[Data]	0 1	0FF 0N		
AUTO F.MIX MAX GAIN	0SE : 74	4:[Data]	QSE : 74	OSE:74:[Data]	00 01 02 03 04 05 06	(0FF) 6dB 12dB 18dB 24dB 30dB 36dB (HBK50:33dB)		
OSD Off With TALLY	0SE : 75	5:[Data]	QSE : 75	OSE:75:[Data]	0 1	OFF ON		

			Data Contents															F	Remarks						
firmation Command	Reply for Confirmation Command	Data	Control and Response to contol		E300/A	E600	E800	E800A	E350	E650	E655	E750	E860	HE100	HC150	0 HC1	1800 HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE4 /HE58/HE35/HE38/HN 8/HN40/HN65/HN70	8 3 UE70/UN70/UE65/UE63	HE75/HE42/HE68	
QSE:0A	OSE:OA:[Data]	00h 	0 - 63			·				•	•				Ver1.30 00-0.00 with D/	- Ver1. 00-0. C with	00 00 D/C								
QSE:0B	OSE:OB:[Data]	00h _ 3Fh	0 - 63												Ver1.30 00-0.00 with D/	- Ver1. 00-0. C with	00- 00 D/C								
QSE:0C	OSE:OC:[Data]	0 1 2 3 4	(G+R) /2 (G+B) /2 (2G+B+R) /4 (3G+B) /4 R												Ver1.30 00-0.00 with D/ BOARD	- Ver1. 00-0. C with BOARD	00 00 D/C								
QSE:10	OSE:10:[Data]	0	OFF ON												Ver1.30 00-0.00 with D/	- Ver1. 00-0. C with	00 00 D/C								
QSE:11	OSE:11:[Data]	0 1 2	LOW MID HIGH												BOARD Ver1.30 00-0.00 with D/	BOARD - Ver1. 00-0. C with	00 00 D/C								
QSE:12	OSE:12:[Data]	0 1	OFF ON												Uer1.30 00-0.00 with D/	- Ver1. 00-0. C with	00- 00 D/C								
QSE:13	OSE:13:[Data]	5Dh - 7Bh - 99h	93 - 123 - 153												Ver1.30 00-0.00 with D/ BOARD	– Ver1. 00–0. C with BOARD	00- 00 D/C								
QSE:14	OSE:14:[Data]	01h 14h	1 - 20												Ver1.30 00-0.00 with D/	- Ver1. 00-0. C with	00 00 D/C								
QSE:15	OSE:15:[Data]	0 - 7	0 												Uer1.30 00-0.00 with D/	– Ver1. 00–0. C with	00- 00 D/C								
QSE:20	OSE:20:[Data]	0 1 2 3	SIDE CUT SQUEEZE LetterBOX Link												Ver1.30 00-0.00 with D/ BOARD	- Ver1. 00-0. C with BOARD	00 00 D/C	V1. 00	V3. 00	V1.00	V1. 00				
QSE:21	OSE:21:[Data]	0	0. 0% 7. 5%											V1.00L01	Ver1.30 00-0.00 with D/	- Ver1. 00-0. C with	00- V1.00L01 00 D/C								
QSE:22	OSE:22:[Data]	0 1 2 3	ALL SD (VBS + SD-SDI) VBS SD-SDI												Ver1.30 00-0.00 with D/ BOARD	- Ver1. 00-0. C with BOARD	00 00 D/C								
QSE:23	OSE:23:[Data]	0 1 2	OFF LOW MID												Ver1.30 00-0.00 with D/	- Ver1. 00-0. C with	00 00 D/C								
QSE:30	OSE:30:[Data]	0 1	ALL OPTION												BOARD Ver1.40 00-0.00 with HD	– Ver1. 00–0. with	00 00 HD								
		<u>Data1</u> 0 1	<u>Output</u> Browser/Video SDI/HDMI,Component												<u>SDI BOA</u> 	<u>RD SDIB</u> 	V1.00L01		V3.00 suports only <u>Output</u>						
98:[Data1]	OSD:98:	2 <u>Data2</u> 0	OPTION <u>Character Mix Select</u> Off																O(Browser/Video), 1(SDI/HDMI,Componen)	t					
	[Datai].[Dataz]	1 2	On Off By Browser																Character Mix Selec 2(Off By Browser) is Valid When Output is 1(SDI/HDMI,Componen	t s t					
		0	Normal Fan Error	If the Camera made													V1.00L01 supports			V1.00 supports only					V7.00 suppor
QER	OER:[Data]	2	Other Error	trouble,Camera sent "OER:[Data]" periodically.													only O(Normal) 1(Fan Error)			0(Normal) 1(Fan Error)					0 (Norm 1 (Fan
		0 1 2	NORMAL EBU MATRIX NTSC MATRIX															V1.00 suports only 0(NORMAL),	V3. 00	V1.00	V1.00	V1. 00	V1. 00	V1.00	
QSE:31	OSE:31:[Data]	3	USER															2 (NTSC MATRIX) 2 (NTSC MATRIX) V2. 00							
		0	OFF															V1.00	V3.00			V1.00	V1.00	V1.00	
QSE:32	OSE:32:[Data]	2 3	MID HIGH															0 (0FF) , 1 (LOW) , 3 (H))	IGH 0 (OFF), 1 (LOW), 3 (HIG)	Н		0 (0FF) , 1 (LOW) , 3 (HI H)	G 0 (0FF), 1 (LOW), 3 (HIG H)	0 (OFF), 1 (LOW), 3 (HIG H)	
QSE:33	OSE:33:[Data]	0 1 2 3	OFF LOW MID HIGH															V1.00 supports only 0(OFF),1(LOW),3(H))	V3.00 supports only IGH 0(OFF),1(LOW),3(HIG)	V1. 00 H	V1. 00	V1.00 supports only 0(OFF),1(LOW),3(HI H)	V1.00 supports only G (OFF),1(LOW),3(HIG H)	V1.00 supports only 0(OFF),1(LOW),3(HIG H)	1
		0 1 2	RGB (NOR) RGB (ENH) VPbPr (422)															V1.00 supports only	V3.00 supports only	V1.00 supports only					
QSE:68	OSE:68:[Data]	2 3 4	YPbPr (444) YPbPr (420)															1 (RGB (ENH)) 2 (YPbPr (422)) 3 (YPbPr (444))	1 (RGB (ENH)) 2 (YPbPr (422)) 3 (YPbPr (444))	1 (RGB (ENH)) 2 (YPbPr (422)) 3 (YPbPr (444))	V1 00	V1.00	V1 00	V1_00	
		0 1	DISABLE															V1. 00	V3. 00	V1.00	V1. 00	V1.00	V1. 00	V1.00	
QSE:70	OSE:70:[Data]																								
QSE:71	OSE:71:[Data]	0 1 2	MODE A MODE B MODE C															V1. 00	V3. 00	V1.00	V1. 00	V1. 00	V1.00	V1.00	
		0 1 2	OFF NORMAL CINEMA															V1. 00	V3.00	V1.00	V1.00 supports only O(HD) 1(SD)	V1.00	V1. 00	V1.00	
QSE:72	OSE:72:[Data]	0 1 2	AW-HE130. AW-HR140. AW-UE150 HD SD FILMLIKE1																		2 (FILMLIKE1) 3 (FILMLIKE2) 4 (FILMLIKE3)				
		3 4 5 6 7	FILMLIKE2 FILMLIKE3 FILM REC VIDEO REC																						
QSE:73	OSE:73:[Data]	0 1	OFF ON															V1. 00	V3. 00			V1. 00	V1.00	V1.00	
		00 01 02	(0FF) 6dB 12dB															V1.00 supports only 00(OFF)-03(18dB)	V3.00 supports only 00(OFF)-03(18dB)			V1.00 supports only 00(0FF)-03(18dB)	V1.00 supports only 00(0FF)-03(18dB)	V1.00 supports only 00(OFF)-03(18dB)	
QSE:74	OSE:74:[Data]	03 04 05 06	18dB 24dB 30dB 36dB (HBK50:33dB)																						
QSE:75	OSE:75:[Data]	0 1	OFF ON															V1. 00	V3. 00	<u>V1.</u> 00	V1. 00	V1.00	V1. 00	V1. 00	

E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/L
		Ver1.30- 00-0.00 with D/C BOARD	Ver1.00- 00-0.00 with D/C BOARD											
		Ver1.30- 00-0.00 with D/C BOARD	Ver1.00- 00-0.00 with D/C BOARD											
		Ver1.30- 00-0.00 with D/C BOARD	Ver1.00- 00-0.00 with D/C BOARD											
		Ver1.30- 00-0.00 with D/C	Ver1.00- 00-0.00 with D/C											
		Ver1.30- 00-0.00 with D/C BOARD	Ver1.00- 00-0.00 with D/C BOARD											
		Ver1.30- 00-0.00 with D/C BOARD Vor1.30-	Ver1.00- 00-0.00 with D/C BOARD											
		00-0.00 with D/C BOARD	00-0.00 with D/C BOARD											
		Ver1.30- 00-0.00 with D/C BOARD	Ver1.00- 00-0.00 with D/C BOARD											
		Ver1.30- 00-0.00 with D/C BOARD	Ver1.00- 00-0.00 with D/C BOARD											
		Ver1.30- 00-0.00 with D/C BOARD	Ver1.00- 00-0.00 with D/C BOARD		V1. 00	¥3. 00	V1.00	V1. 00						
	V1.00L01	Ver1.30- 00-0.00 with D/C BOARD	Ver1.00- 00-0.00 with D/C BOARD	V1.00L01										
		Ver1.30- 00-0.00 with D/C BOARD	Ver1.00- 00-0.00 with D/C BOARD											
		Ver1.30- 00-0.00 with D/C BOARD	Ver1.00- 00-0.00 with D/C BOARD											
		Ver1.40- 00-0.00 with HD SDI BOARD 	Ver1.00- 00-0.00 with HD SDI BOARD 	 V1. 00L01		V3.00 suports only								
						O(Browser/Video), 1(SDI/HDMI,Component) <u>Character Mix Select</u> 2(Off By Browser) is								
						Valid When Output is 1(SDI/HDMI, Component)								
	1		•	V1.00L01 supports only 0(Normal)			V1.00 supports only O(Normal) 1(Fan Error)					V7.00 supports only O(Normal) 1(Fan Error)	V1.00 supports only O(Normal) 1(Fan Error)	V1.00
				Error)	V1.00 suports only O(NORMAL), 1(EBU MATRIX), 2(NTSC MATRIX)	V3. 00	V1. 00	V1. 00	V1. 00	V1. 00	V1. 00		V1. 00	V1.00
					V2.00 V1.00 supports only 0(OFF),1(LOW),3(HIGH)	V3.00 supports only 0(OFF),1(LOW),3(HIGH)			V1.00 supports only 0(OFF),1(LOW),3(HIG H)	V1.00 supports only 0(OFF),1(LOW),3(HIG H)	V1.00 supports only 0(OFF),1(LOW),3(HIG H)			
					V1.00 supports only 0(OFF),1(LOW),3(HIGH)	V3.00 supports only O(OFF),1(LOW),3(HIGH)	V1.00	V1.00	V1.00 supports only O(OFF),1(LOW),3(HIG H)	V1.00 supports only O(OFF),1(LOW),3(HIG H)	V1.00 supports only 0(OFF),1(LOW),3(HIG H)		V1. 00	V1.00
					V1.00 supports only 0(RGB(NOR)) 1(RGB(ENH)) 2(YPbPr(422)) 2(YDPr(422))	V3.00 supports only 0(RGB(NOR)) 1(RGB(ENH)) 2(YPbPr(422))	V1.00 supports only 0(RGB(NOR)) 1(RGB(ENH)) 2(YPbPr(422)) 2(YPbPr(422))							V1.00 supports only 2(YPbPr(422)) 4(YPbPr(420))
					V1. 00 V1. 00	V3. 00 V3. 00	V1. 00 V1. 00	V1. 00 V1. 00	V1. 00 V1. 00	V1. 00 V1. 00	V1.00 V1.00		V1.00 V1.00	V1.00 V1.00
														-Opt Zoom OSE:70:0 OSD:B3:0 -i Zoom OSE:70:0 OSD:B3:1 -D Zoom OSE:70:1 OSD:B3:0
					V1.00	V3. 00	V1.00	V1.00	V1. 00	V1.00	V1.00		V1.00	V1.00
					V1. 00	V3. 00	V1.00	V1.00 supports only 0(HD) 1(SD) 2(FILMLIKE1) 3(FILMLIKE2) 4(FILMLIKE3)	V1.00	V1. 00	V1.00		V1.00 supports only 0(HD) 2(FILMLIKE1) 3(FILMLIKE2) 4(FILMLIKE3)	V1. 00
					V1. 00	V3. 00			V1. 00	V1. 00	V1. 00			
					V1.00 supports only 00(0FF)-03(18dB)	V3.00 supports only 00(OFF)-03(18dB)			V1.00 supports only 00(OFF)-03(18dB)	V1.00 supports only 00(OFF)-03(18dB)	V1.00 supports only OO(OFF)-O3(18dB)			
					V1. 00	V3. 00	V1.00	V1. 00	V1. 00	V1. 00	V1.00		V1. 00	V1. 00

		-	-	1		-	-
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Da Control and Response to contol	ta Contents Response to Confirma
DIGITAL ZOOM MAGNIFICATION	0SE:76	:[Data]	QSE:76	OSE:76:[Data]	0100 _ 9999		*1.00 *99.99
BASE FREQUENCY SELECT	0SE : 77	:[Data]	QSE:77	OSE:77:[Data]	0 1 2 3 02		59. 94Hz 50. 00Hz 24. 00Hz 23. 98Hz x2
MAXIMUM DIGITAL ZOOM	0SE : 7A	:[Data]	QSE:7A	OSE:7A:[Data]	18		_ x18
RIGHT SW	DRT:	[Data]			1h Ah	1Step 1OStep	
LEFT SW	DLT:	[Data]			1h Ah	1Step 10Step	
DAY-NIGHT	0SE:80	:[Data]	QSE:80	OSE:80:[Data]	0 1 0 1		Day Night Off On
OIS(Optical Image Stabilizer)	015:	[Data]	QIS	OIS:{Data]	[AW-HR140] 0 1 2	Dynam	[AW-HR140] Off OIS Nic I S System
Flash Band Comp	OFB:	[Data]	QFB	OFB:[Data]	0 1 00h	0	Off On SD Mix Off
OSD Mix	OSE : 7B	:[Data]	QSE:7B	OSE:7B:[Data]	01h 02h 04h 08h 10h 20h 40h	12G S %bit0:SDI, bit1:HD bit4:IP, bit5:12	SDI On HDMI On Analog On Video On IP On SDI/OPTICAL On MONI On MI, bit2:Analog, bit3: 2G SDI/OPTICAL, bit6: M
Flip Status	-		QFS	OFS:[Data]	0 1		Normal Flip
Focus ADJ With Zoom Mode	0AZ:	[Data]	QAZ	OAZ:[Data]	0 1		OFF ON
PinP CTRL	0P:[Data]	QP	OP:[Data]	0 1		OFF ON
CHROMA LEVEL	OSD : BO	:[Data]	QSD : BO	OSD:BO:[Data]	1Dh - 80h - A8h - E3h <u>AK-UB300</u> 00h 1Dh - 80h - 80h - 80h		-99% - 0 - 40% - 99% <u>AK-UB300</u> -100% -99% - 0 - 40%
COLOR TEMPERATURE	OSD : B1	:[Data]	QSD : B1	OSD:B1:[Data]	000h, 001h, 002h, 003h, 004h, 005h, 006h, 007h, 008h, 009h, - - - - - - - - - - - - - - - - - - -	AW-H 2000K, 2010 2070K, 2080 2140K, 2150 2210K, 2230 2300K, 2310 2380K, 2400 2480K, 2500 2600K, 2620 2720K, 2740 2850K, 2870 3000K, 3020 3150K, 3200 3150K, 3200 3360K, 3420 3600K, 3660 3870K, 3930 4170K, 4240 4520K, 4600 4920K, 5000 5400K, 5500 6000K, 6150 6800K, 7000 7800K, 8100 9200K, 9600K, 11500K, 12000K	E130. AW-HR140 K, 2020K, 2040K, 2050K, K, 2090K, 2110K, 2120K, K, 2170K, 2180K, 2200K, K, 2240K, 2260K, 2280K, K, 2330K, 2340K, 2360K, K, 2420K, 2440K, 2460K, K, 2520K, 2540K, 2560K, K, 2640K, 2680K, 2700K, K, 2780K, 2800K, 2820K, K, 2920K, 2950K, 2970K, K, 3070K, 3100K, 3120K, K, 3250K, 3270K, 3330K, K, 3450K, 3510K, 3570K, K, 3720K, 3780K, 3840K, K, 3990K, 4050K, 4110K, K, 4680K, 4760K, 4840K, K, 4680K, 4760K, 4840K, K, 5100K, 5200K, 5300K, K, 6300K, 6450K, 6650K, K, 7150K, 7400K, 7600K, 10000K, 10500K, 11000K, 12500K, 13000K, 14000K, 15000K
					000h 001h 04A 04B	[AW-H] (E40/HE65/HE70] 2400K 2500K 9800K 9900K 100K step)
V DTL LEVEL	OSD : A1	:[Data]	QSD : A1	OSD:A1:[Data]	- 80h - 87h		- 0 - 7
DETAIL BAND DETAIL FREQUENCY	OSD : A2	:[Data]	QSD : A2	OSD:A2:[Data]	79h - 80h - 87h		-7 - 0 - 7
FLESH NOISE SUPPRESS	OSD : A3	:[Data]	QSD : A3	OSD:A3:[Data]	80h _ 9Fh		0 - 31
MATRIX(R-G)	OSD : A4	:[Data]	QSD : A4	OSD:A4:[Data]	41h - 80h -		-63 - 0 -
MATRIX(R-B)	OSD : A5	:[Data]	QSD : A5	OSD:A5:[Data]	41h - 80h - BFh		-63 - 0 - 63
MATRIX(G-R)	OSD : A6	:[Data]	QSD : A6	OSD:A6:[Data]	41h - 80h - PEb		-63 - 0 -
1	I		1		υΓΠ	1	00

ply for Confirmation Command	Data	Data Contents Control and Response to contol Response to Confirmation	E300/A E600 E8	300 E800A E350	E650 E655	E750 E860 H	IE100 HC1500 HC1800 HE87	Re 10 HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE /HE58/HE35/HE38/H 8/HN40/HN65/HN7	E48 HN3 UE70/UN70/UE65/UE6	3 HE75/HE42/HE68	
	0100 - 9999	*1.00 - *99.99						V1.00 supports only 0100(*1.00)	V3.00 supports only 0100(*1.00)	V1.00 supports only 0100(*1.00)	V1.00 supports only 0100(*1_00)	V1.00 supports only 0100(*1.00)	V1.00 supports only 0100(*1_00)	V1.00 supports only 0100(*1.00)	
OSE:76:[Data]								- 1000 (*10. 00)	- 1000 (*10. 00)	- 1000 (*10. 00)	- 1000 (*10. 00)	 1600 (*16. 00)	- 1200 (*12. 00)	- 1200 (*12. 00)	
OSE:77:[Data]	0 1 2 3	59. 94Hz 50. 00Hz 24. 00Hz 23. 98Hz						V2.00 supports only 0(59.94Hz), 1(50.00Hz) 	V1.00 supports only 0(59.94Hz), 1(50.00Hz) 	V1.00 supports only 0(59.94Hz), 1(50.00Hz) V1.00	V1.00 supports only 0(59.94Hz), 1(50.00Hz) V1 00	V1.00 supports only 0(59.94Hz), 1(50.00Hz) V1.00	V1.00 supports only 0(59.94Hz), 1(50.00Hz) V1 00	V1.00 supports only 0(59.94Hz), 1(50.00Hz) V1.00	
OSE:7A:[Data]	- 18	- x18								supports only 02(x2) - 10(x10)	supports only 02(x2) - 10(x10)	supports only 02(x2) - 16(x16)	supports only 02: (x2) - 12(x12)	supports only 02: (x2) - 12 (x12)	
	1h Ah 1h	1Step 10Step								V1.00	V1.00				V7.00 suppo 1h(15
 OSE:80:[Data]	Ah 0 1	10Step Day Night	 												suppo 1h (1S
OIS:{Data]	0 1 [AW-HR140] 0 1	Off On [AW-HR140] Off OIS									V1.00	V1. 00	V1.00	V1.00	
OFB:[Data]	2 0 1	Dynamic I.S. System Off On													
OSE:7B:[Data]	00h 01h 02h 04h 08h 10h 20h 40h	OSD Mix Off SDI On HDMI On Analog On Video On IP On 12G SDI/OPTICAL On MONI On %bit0:SDI, bit1:HDMI, bit2:Analog, bit3:Video, bit4 : IP, bit5:12G SDI/OPTICAL, bit6: MONI								V1.00 supports only 00(0SD Mix Off) 01(SDI On) 02(HDMI On) 04(Analog On) 08(Video On)	V1.00 supports only 00(OSD Mix Off) 01(SDI On) 02(HDMI On) 08(Video On) 10(IP On)				V7. 20 suppo 00 (0S 01 (SD 10 (IP
OFS:[Data]	0 1	Normal Flip								V1.00	V1. 00				
OAZ:[Data]	0 1	OFF ON						V1.00	V1.00	V1.00	V1. 00	V1.00	V1.00	V1.00	
OP:[Data]	0 1	OFF ON													
OSD:BO:[Data]	1Dh - 80h - E3h <u>AK-UB300</u> 00h 1Dh - 80h - 80h -	-99% - 0 - 40% - 99% <u>AK-UB300</u> -100% -99% - 0 - 40%									supports only 00(0ff), 1D(-99%) - A8(40%)				
OSD:B1:[Data]	000h, 001h, 002h, 003h, 004h, 005h, 006h, 007h, 008h, 009h, 	AW-HE130, AW-HR140 2000K, 2010K, 2020K, 2040K, 2050K, 2070K, 2080K, 2090K, 2110K, 2120K, 2140K, 2150K, 2170K, 2180K, 2200K, 2300K, 2310K, 2330K, 2340K, 2260K, 2300K, 2310K, 2330K, 2340K, 2360K, 2380K, 2400K, 2420K, 2440K, 2460K, 2480K, 2500K, 2520K, 2540K, 2560K, 2600K, 2620K, 2640K, 2680K, 2700K, 2720K, 2740K, 2780K, 2800K, 2820K, 2850K, 2870K, 2920K, 2950K, 2970K, 3000K, 3020K, 3070K, 3100K, 3120K, 3150K, 3200K, 3250K, 3270K, 3330K, 3600K, 3660K, 3720K, 3780K, 3840K, 3870K, 3930K, 3990K, 4050K, 4110K, 4170K, 4240K, 4320K, 4360K, 4440K, 4520K, 6000K, 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 [AW-HE40/HE65/HE70] 2400K 2500K 9800K 9900K (100K step)									V1. 00	V1. 00	V1. 00	V1. 00	
OSD:A1:[Data]	79h _ 80h	-7 - 0 -									V1. 0				
OSD:A2:[Data]	87h - 80h -	7 -7 -0 -7 - - - - - - - - - - - - - - -									V1. 0				
OSD:A3:[Data]	8 /h 80h -										V1. 0				
OSD:A4:[Data]	9Fh 41h - 80h - BFh	31 -63 - 0 - 63									V1. 0				
OSD:A5:[Data]	41h - 80h - BFh 41b	-63 - 0 - 63 - 63									V1.0				
OSD:A6:[Data]	- 80h - BFh	- 0 - 63													

E860 HE100 HC1500 HC1800 HE870	Rema	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/U
	V1.00 supports only 0100(*1.00)	V3.00 supports only 0100(*1.00) -	V1.00 supports only 0100(*1.00)	V1.00 supports only 0100(*1.00)	V1.00 supports only 0100(*1.00)	V1.00 supports only 0100(*1.00)	V1.00 supports only 0100(*1.00) -		V1.00 supports only 0100(*1.00)	V1.00 supports only 0100(*1.00)
	_ 1000 (*10. 00)	- 1000 (*10. 00)	 1000 (*10. 00)	 1000 (*10. 00)	_ 1600 (*16. 00)	_ 1200 (*12. 00)	 1200 (*12. 00)		_ 1000 (*10. 00)	_ 1000 (*10. 00)
	V2.00 supports only 0(59.94Hz), 1(50.00Hz)	V1.00 supports only 0(59.94Hz), 1(50.00Hz)	V1.00 supports only 0(59.94Hz), 1(50.00Hz)	V1.00 supports only 0(59.94Hz), 1(50.00Hz)	V1.00 supports only 0(59.94Hz), 1(50.00Hz)	V1.00 supports only 0(59.94Hz), 1(50.00Hz)	V1.00 supports only 0(59.94Hz), 1(50.00Hz)		V1.00 supports only 0(59.94Hz), 1(50.00Hz)	V1.00
			V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only		V1.00 supports only	V1.00 supports only
			- 10 (x10)	- 10 (x10)	- 16 (x16)	- 12 (x12)	- 12 (x12)		- 10 (x10)	- 10 (x10)
			V1. 00	V1. 00				V7.00 supports only 1h(1Step)	V1. 00	V1. 00
			V1.00	V1. 00				V7.00 supports only 1h(1Step)	V1.00	V1.00
					 V1_00	 V1_00	 V1 00		 V1 00	 V1_00
				V1.00	V1. 00	V1. 00	VI. 00		VI. 00	V1.00
			 V1. 00	 V1. 00				 V7. 20	 V1. 00	 V1. 00
			supports only 00(OSD Mix Off) 01(SDI On) 02(HDMI On)	supports only OO(OSD Mix Off) O1(SDI On) O2(HDMI On)				supports only 00(OSD Mix Off) 01(SDI On) 10(IP On)	supports only 00(OSD Mix Off) 01(SDI On) 10(IP On)	supports only 00(OSD Mix Off 01(SDI On) 02(HDMI On)
			04 (Analog On) 08 (Video On)	08(Video On) 10(IP On)						10 (IP On) 20 (12G SDI/OPT ON)
			V1.00	V1. 00					V1.00	V1.00
	V1. 00	V1.00	V1. 00	V1. 00	V1. 00	V1. 00	V1.00		V1. 00	V1.00
				 V1_00				 V7_00	 V1_00	 V1_00
				supports only 00(0ff), 1D(-99%) - A8(40%)				11.00	supports only 00(0ff), 1D(-99%) - A8(40%)	1.00
				V1. 00	V1. 00	V1.00	V1.00		V1.00	
				V1. 0					V1. 0	V1. 0
				V1. 0					V1. 0	V1. 0
				V1. 0					V1.0	V1. 0
				V1. 0					V1. 0	V1. 0
				V1. 0					V1. 0	V1. 0
				V1. 0					V1. 0	V1.0
	1		i i	i i	i i	i i	1	1	1	1

ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol
MATRIX(G-B)	0SD : A7	:[Data]	QSD : A7	OSD:A7:[Data]	41h _ 80h _	-63 - 0 -
					BFh	63
					41h -	-63
MATRIX(B-R)	0SD : A8	:[Data]	QSD : A8	OSD:A8:[Data]	80h _	0
					BFh	63
					41h -	-63
MATRIX(B-G)	OSD : A9	:[Data]	QSD : A9	OSD:A9:[Data]	80h _	0
					BFh	63
COLOR MATRIX Mg R R GAIN					01h _	-127
/COLOR CORRECTION	OSD:9A	:[Data]	QSD:9A	OSD:9A:[Data]	80h _	0 _
Mg_R_R SATURATION					FFh	+127
COLOR MATRIX Mg_R_R PHASE					- 20b	- 0
/COLOR CORRECTION	OSD:9B	:[Data]	QSD:9B	OSD:9B:[Data]	- EEb	-
Mg_R_R PHASE					01h	-127
COLOR MAIRIX R_R_YI GAIN					- 80h	- 0
/COLOR CORRECTION	0SD:9C	:[Data]	QSD:9C	OSD:9C:[Data]	– FEh	+127
R_R_YI SATURATION					01h	-127
R_R_YI PHASE	000.000	·[Dete]	000-00	000-00-50-+-1	- 20b	- 0
CORRECTION	030.90	ι[ματα]	420.90	030.90.[Data]	- EEb	-
COLOR MATRIX					01h	-127
R_YI_YI GAIN /COLOR	OSD:9E	:[Data]	QSD:9E	OSD:9E:[Data]	- 80h	- 0
CORRECTION R YI YI SATURATION					– FFh	+127
COLOR MATRIX					01h	-127
K_YI_YI PHASE /COLOR	OSD:9F	:[Data]	QSD:9F	OSD:9F:[Data]	_ 80h	0
CORRECTION R_YI_YI PHASE					_ FFh	+127
AUDIO	OSA:DO	:[Data]	QSA : DO	OSA:DO:[Data]	0	OFF ON
					0	Mic Hi
	004-01	· [D_+_]	004 - D1		1 2	Mic Mid Mic Le
AUDIO INPUI VOLUME	USAUDI	[Data]	QSA : DT	USA:DI:[Data]	3 4	Line Hi Line Mic
					5	Line L
AUDIO PLUGIN POWER	OSA:D2	:[Data]	QSA:D2	OSA:D2:[Data]	1	OFF ON
TALLY BRIGHTNESS	OSA : D3	:[Data]	QSA:D3	OSA:D3:[Data]	0 1	LOW
					2	HIGH
NIGHT MODE SEL	OSD : B2	:[Data]	QSD : B2	OSD:B2:[Data]	1	Auto
					0 1	D I SABI ENABL
i. ZOOM	OSD:B3	:[Data]	QSD : B3	OSD:B3:[Data]		
					0	Off
HDR	0SD : B4	:[Data]	QSD:B4	OSD:B4:[Data]	1 2	Low Mid
					3 01b	High
CULUR MATRIX Cy_Cy_B GAIN	000-14		000-14		- 80h	- 0
CORRECTION	USD÷AA	:[Data]	QSD÷AA	USD:AA:[Data]		-+127
Cy_Cy_B SATURATION					01h	-127
Cy_Cy_B PHASE	OSD : AB	:[Data]	QSD : AB	OSD:AB:[Data]	_ 80h	- 0
CORRECTION		22	402 //2		– FFh	+127
COLOR MATRIX					01h	-127
Cy_B_B GAIN /COLOR	OSD : AC	:[Data]	QSD : AC	OSD:AC:[Data]	80h	0
CORRECTION Cy_B_B SATURATION					FFh	+127
COLOR MATRIX					01h _	-127
COLOR	OSD : AD	:[Data]	QSD : AD	OSD:AD:[Data]	80h -	0 _
Cy_B_B PHASE					FFh	+127
COLOR MATRIX B_B_Mg GAIN					01h -	-127
/COLOR CORRECTION	OSD : CO	:[Data]	QSD : CO	OSD:CO:[Data]	80h -	0 -
B_B_Mg SATURATION					FFh 01b	+127
B_B_Mg PHASE		· [D-+]			- 20b	
CORRECTION	USD : C1	ιματα]	QSD : C1	USD:C1:[Data]	- ECh	-
B_B_MG PHASE					01h	-127
B_Mg_Mg GAIN	050.00	:[Data]	000.00	060.65.[Data]	_ 80h	- 0
	000.02	[Julu]	900 · UZ	υσυνοζιματα]	_ FFh	+127
COLOR MATRIX					01h	-127
B_Mg_Mg PHASE /COLOR	0SD : C3	:[Data]	QSD : C3	OSD:C3:[Data]	– 80h	- 0
CORRECTION B Mg Mg PHASE					– FFh	+127
COLOR MATRIX					01h	-127
YI_YI_G GAIN /COLOR	0SD : C4	:[Data]	QSD:C4	OSD:C4:[Data]	_ 80h	0
CORRECTION YI_YI_G SATURATION					– FFh	+127
					01h _	-127
TI_TI_G PHASE /COLOR	0SD : C5	:[Data]	QSD:C5	OSD:C5:[Data]	80h	0
YI_YI_G PHASE					 FFh	+127
COLOR MATRIX YI_G_G GAIN					01h _	-127
/COLOR CORRECTION	0SD : C6	:[Data]	QSD:C6	OSD:C6:[Data]	80h -	0 -
YI_G_G SATURATION					FFh 01b	+127
COLOR MATRIX YI_G_G PHASE					- 20h	
/COLOR CORRECTION	0SD : C7	:[Data]	QSD:C7	OSD:C7:[Data]	0011 - EEk	-
YI_G_G PHASE	ļ				0	+12/
NIGHT-DAY LEVEL	0SD : B7	:[Data]	QSD:B7	OSD:B7:[Data]	1 2	Mid
					۷	nign

				Data Contents										Re	emarks						
l Reply for d Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol		E300/A	E600 E800	E800A E350	E650	E655 E750	E860 HE100	HC1500	HC1800 HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE6	3 HE75/HE42/HE68 UB300	HR140
			41h	-63	-												V1.0				V1.0
SD:A7:[Data]	QSD:A7	OSD:A7:[Data]	80h -	0																	
			BFh	63													V1 0				V1 0
SD·48·[Data]	84.020	[s+c].	- 80h	- 0													V1. 0				V1. 0
νικοιματα	QSD - AO	USD. AO. [Data]	– BFh	63																	
			41h	-63													V1.0				V1.0
SD:A9:[Data]	QSD : A9	OSD:A9:[Data]	80h	0 -																	
			BFh 01h	63 -127	-												V1.0				V1.0
SD:9A:[Data]	QSD:9A	OSD:9A:[Data]	_ 80h	_ 0													supports only 41h(-63)				supports only 41h(-63)
			- FFh	+127													– BFh (+63)				– BFh (+63)
			01h 	-127 -	-												V1.0 supports only A1b(-63)				V1.0 supports only 41b(-63)
SD:9B:[Data]	QSD:9B	OSD:9B:[Data]	– FFh	-+127													– BFh (+63)				– BFh (+63)
			01h	-127	-												V1.0 supports only	V1.00 supports only	V1.00 supports only	V1.00	V1.0 supports only
SD:9C:[Data]	QSD:9C	OSD:9C:[Data]	80h _	0													41h (-63)	61h (-31)	61h (-31)	61h (-31)	41h (-63)
			FFh 01b	+127													BFh (+63)	9Fh (+31)	9Fh (+31)	9Fh (+31)	BFh (+63)
SD:9D:[Data]	QSD : 9D	OSD:9D:[Data]	- 80h	- 0													supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)
			– FFh	+127													– BFh (+63)	– BFh (+63)	– BFh (+63)	– BFh (+63)	– BFh (+63)
			01h _	-127	-												V1.0 supports only	V1.00 supports only	V1.00 supports only	V1.00 supports only	V1.0 supports only
SD:9E:[Data]	QSD:9E	OSD:9E:[Data]	SUN – FFh	0 - +127													- BFh (+63)	9Fh (+31)	9Fh (+31)	9Fh (+31)	4 (11 (-03) - BFh (+63)
			01h	-127													V1.0	V1.00	V1.00	V1.00	V1.0
SD:9F:[Data]	QSD:9F	OSD:9F:[Data]	_ 80h _	0													supports only 41h(-63) -	supports only 41h(-63) -	supports only 41h(-63) -	41h (-63)	supports only 41h(-63) -
			FFh 0	+127 0FF													BFh (+63) V1. 0	BFh (+63) V1. 00	BFh (+63) V1. 00	BFh (+63) V1. 00	BFh (+63) V1. 0
SA:DO:[Data]	QSA:D0	OSA:DO:[Data]	1	ON Mic High													V1.0	V1.00	V1.00	V1.00	
24 · D1 · FD · - 3	001-51		1 2	Mic Middle Mic Low																	
SA:D1:[Data]	QSA : D1	OSA:D1:[Data]	3 4	Line High Line Middle																	
SA · D2 · [Data]	054 : 02	054 · D2 · [Data]	0	OFF	-												V1. 0	V1.00	V1.00	V1.00	
	WOR - DZ		1 0	ON LOW	-												V1. 0				
SA:D3:[Data]	QSA:D3	OSA:D3:[Data]	1 2	MID HIGH																	
SD:B2:[Data]	QSD : B2	OSD:B2:[Data]	0	Manua I Auto	-													V1.00	V1.00	V1.00	
			0 1	DISABLE ENABLE	=													V1. 00	V1.00	V1.00	
SD:B3:[Data]	QSD : B3	OSD:B3:[Data]																			
SD:B4:[Data]	0SD : B4	OSD:B4:[Data]	0 1 2	Off Low Mid	-													V1.00 supports only	V1.00 supports only	V1.00 supports only	
			3	High														H)	H)		
	000-44		01h _ 80h		=													v1.00 supports only 61h(-31)	vi.00 supports only 61h(-31)	supports only 61h(-31)	
	QOD - AA	USD. AA. [Data]	– FFh	- +127														– 9Fh (+31)	– 9Fh (+31)	– 9Fh (+31)	
			01h _	-127	-													V1.00 supports only	V1.00 supports only	V1.00 supports only	
SD:AB:[Data]	QSD : AB	OSD:AB:[Data]	80h	0														41h (-63) -	41h (-63) -	41h (-63) -	
			01h	-127	-													V1. 00	BFn (+63) V1. 00	V1.00	
SD:AC:[Data]	QSD : AC	OSD:AC:[Data]	_ 80h _	0														61h(-31) -	61h(-31)	61h (-31)	
			FFh	+127														9Fh (+31)	9Fh (+31)	9Fh (+31)	
SD: AD: [Data]	UV : USU	[s+sd] · dA · d20	- 80h	- 0														supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	
	900-10		_ FFh	+127														– BFh (+63)	– BFh (+63)	– BFh (+63)	
			01h -	-127 -														V1.00 supports only	V1.00 supports only	V1.00 supports only	
SD:CO:[Data]	QSD : CO	OSD:CO:[Data]	80h - FFh	0 - +127														o in (-31) - 9Fh (+31)	oin (-31) - 9Fh (+31)	orn(-31) - 9Fh(+31)	
			01h	-127														V1.00 supports only	V1.00 Supports only	V1.00	
SD:C1:[Data]	QSD:C1	OSD:C1:[Data]	80h -	0														41h (-63)	41h (-63)	41h (-63)	
			FFh 01b	+127 -127										 				BFh (+63)	BFh (+63) V1, 00	BFh (+63)	
SD:C2:[Data]	QSD : C2	OSD:C2:[Data]	- 80h	- 0														supports only 61h(-31)	supports only 61h(-31)	supports only 61h(-31)	
			– FFh	+127														– 9Fh (+31)	– 9Fh (+31)	– 9Fh (+31)	
			01h 	-127	-													V1.00 supports only	V1.00 supports only	V1.00 supports only	
SD:C3:[Data]	QSD : C3	OSD:C3:[Data]	80h _ FFb	0 - +127														41h (-63) - BEb (+63)	41h (-63) - BFh (+63)	41h (−63) − BEb (+63)	
			01h	-127														V1.00	V1.00	V1.00	
SD:C4:[Data]	QSD : C4	OSD:C4:[Data]	_ 80h _	0														supports only 61h(-31) -	supports only 61h(-31) -	61h (-31) -	
			FFh	+127														9Fh (+31)	9Fh (+31)	9Fh (+31)	
SD:C5:[Data]	0.50 - 0.5	0SD:05.[Data]	- 80h		-	_												supports only 41h(-63)	supports only 41h(-63)	supports only 41h(-63)	
	200.00		_ FFh	+127														– BFh (+63)	– BFh (+63)	– BFh (+63)	
			01h 	-127														V1.00 supports only	V1.00 supports only	V1.00 supports only	
SD:C6:[Data]	QSD:C6	OSD:C6:[Data]	80h - FFh	0 - +127														orn (-31) - 9Fh (+31)	orn (-31) - 9Fh (+31)	9Fh (+31)	
			01h	-127														V1.00 supports only	V1.00 supports only	V1.00 supports only	
SD:C7:[Data]	QSD:C7	OSD:C7:[Data]	80h -	0 _														41h (-63)	41h (-63)	41h (-63)	
			FFh 0	+127 Low										 				BFh (+63) V1. 00	BFh (+63) V1. 00	BFh (+63) V1. 00	
SD:B7:[Data]	QSD:B7	OSD:B7:[Data]	1 2	Mid High																	
	1	1	1	1										1	1		1		1	<u> </u>	

E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/L
								V1. 0					V1. 0	V1.0
								V1.0					V1.0	V1.0
								V1. 0					V1. 0	V1.0
								V1.0 supports only					V1.0 supports only	V1.0 supports only
								41h (-63) - BFh (+63)					41h (-63) - BFh (+63)	41h (-63) - BFh (+63)
								V1.0 supports only 41h(-63)					V1.0 supports only 41h(-63)	V1.0 supports only 41h(-63)
								– BFh (+63)	V1 00	V1_00	V1.00		– BFh (+63)	– BFh (+63)
								vi.u supports only 41h(-63)	supports only 61h(-31)	supports only 61h(-31)	supports only 61h(-31)		supports only 41h(-63)	supports only 41h(-63)
								– BFh (+63) V1_0	- 9Fh (+31)	- 9Fh (+31)	9Fh (+31)		BFh (+63)	– BFh (+63)
								supports only 41h(-63) -	supports only 41h(-63)	supports only 41h(-63) -	supports only 41h(-63) -		supports only 41h(-63) -	supports only 41h(-63)
								BFh (+63) V1. 0	BFh (+63) V1. 00	BFh (+63) V1. 00	BFh (+63) V1. 00		BFh (+63) V1. 0	BFh (+63) V1.00
								41h (-63) -	61h (-31) -	61h (-31) -	61h (-31) -		41h (-63)	41h (-63)
								V1.0 supports only	V1.00	V1.00	V1.00		V1.0 supports only	V1.00
								41h (-63) - BFh (+63)	41h (-63) - BFh (+63)	41h (-63) - BFh (+63)	41h (-63) - BFh (+63)		41h (-63) - BFh (+63)	41h (-63) - BFh (+63)
								V1. 0	V1. 00	V1.00	V1. 00		V1. 0	V1.0
								V1. 0	V1. 00	V1.00	V1.00			V1.00 supports only O(Mic)
														3(Line)
								V1. 0	V1. 00	V1.00	V1.00			V1.00
								V1. 0						V1.00
									V1.00	V1.00	V1.00			
									V1. 00	V1.00	V1. 00			V1.00 [Zoom Mode] -Opt Zoom OSE:70:0
														OSD:B3:0 -i Zoom OSE:70:0
														OSD:B3:1 -D Zoom OSE:70:1
									V1.00	V1.00	V1.00			0SD:B3:0
									supports only O(OFF),1(LOW),3(HIG H)	supports only O(OFF),1(LOW),3(HIG H)	supports only O(OFF),1(LOW),3(HIG H)			
									V1.00 supports only 61h(-31)	V1.00 supports only 61h(-31)	V1.00 supports only 61h(-31)			
									– 9Fh (+31)	– 9Fh (+31)	– 9Fh (+31)			
									v1.00 supports only 41h(-63)	v1.00 supports only 41h(-63)	v1.00 supports only 41h(-63)			
									- BFh (+63) V1. 00	– BFh (+63) V1. 00	– BFh (+63) V1. 00			
									supports only 61h(-31) -	supports only 61h(-31) -	supports only 61h(-31) -			
 									9Fh(+31) V1.00 supports only	9Fh(+31) V1.00 supports only	9Fh(+31) V1.00 supports only			
									41h (-63) - BFh (+63)	41h (-63) - BFh (+63)	41h (-63) - BFh (+63)			
									V1.00 supports only	V1.00 supports only	V1.00 supports only			
									61h (-31) - 9Fh (+31)	61h (-31) - 9Fh (+31)	61h (-31) - 9Fh (+31)			
									V1.00 supports only 41h(-63)	V1.00 supports only 41h(-63)	V1.00 supports only 41h(-63)			
									– BFh (+63)	– BFh (+63)	– BFh (+63)			
									V1.00 supports only 61h(-31)	V1.00 supports only 61h(-31)	V1.00 supports only 61h(-31)			
									- 9Fh (+31) V1. 00	– 9Fh (+31) V1. 00	– 9Fh (+31) V1. 00			
									supports only 41h(-63) -	supports only 41h(-63) -	supports only 41h(-63) -			
									BFh (+63) V1. 00	BFh (+63) V1. 00	BFh (+63) V1. 00			
									supports only 61h(-31) - 0Fb(+21)	Supports ONLY 61h(-31) - 0Fb(+21)	supports only 61h(-31) - 0Fh(+31)			
									V1.00 supports only	V1.00 supports only	V1.00 supports only			
									41h (-63) - BFh (+63)	41h (-63) - BFh (+63)	41h (-63) - BFh (+63)			
									V1.00 supports only	V1.00 supports only	V1.00 supports only			
 									9Fh (+31)	9Fh (+31)	9Fh (+31)			
									V1.00 supports only 41h(-63)	V1.00 supports only 41h(-63)	V1.00 supports only 41h(-63)			
									– BFh (+63)	– BFh (+63)	– BFh (+63)			
									VI. UU	VI. UU	VI. UU			

						Data Cont
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol Resp
Digital Extender Magnification	OSD : B8	: [Data]	QSD : B8	OSD:B8:[Data]	0 1 2 3 4	x1. 4 x2. 0 x4. 0 x6. 0 x8. 0
Format_SDI	OSD : B9):[Data]	QSD : B9	OSD:B9:[Data]	0h 1h 2h 3h 4h 5h 6h 7h 8h 9h Ah Bh Ch Dh Eh 10h 11h 12h 13h 14h 15h 16h	$\begin{array}{c} 720/60\\ 720/59.\\ 720/59.\\ 720/50\\ 1080/6\\ 1080/59.\\ 1080/25\\ 1080/20\\ 1080/25\\ 1080/24\\ 1080/23.9\\ 480/59.\\ 480/59.\\ 480/59.\\ 576/50\\ 576/25p\\ 1080/59.\\ 1080/59.\\ 1080/59.\\ 1080/59.\\ 1080/29.\\ 1080/29.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/23.\\ 1080/2$
Color Bars Type	OSD : BA	\:[Data]	QSD : BA	OSD:BA:[Data]	0 1	TYPE2 (Full E TYPE1 (SM
ALC	OSD : BE	3:[Data]	QSD : BB	OSD:BB:[Data]	0 1	OFF ON
Equalize	OSD : BC	C[Data]	QSD : BC	OSD:BC:[Data]	0 1 2	OFF LowCU VOICE
Bars Title	OSD : BE	:[Data]	QSD : BE	OSD:BE:[Data]	0 1	OFF ON
AutoShutterLimit	OSD : BF	:[Data]	QSD : BF	OSD:BF:[Data]	0 1 2 3 4 2 3 4	[59.94Hz] 0ff 1/60 1/100 1/120 1/250 <u>AW-UE1</u> 1/100 1/120 1/120
E. DRS SELECT	OSD : CE	3:[Data]	QSD : C8	OSD:C8:[Data]	0 1 2 3	OFF LOW MID HIGH
SOFTWARE VERSION		_	QSI:19:[Data1]	OSI:19:[Data1]:[Data2]	[Data1] 0 1 2 3 4 5 6 [Data2] (Ver.String)	(e
Request Zoom/Focus/Iris Position (Output D/A Data)		_	QSI:18	OSI:18:[Data1]:[Data2]:[Data3]	[Data1] 555h - FFFh [Data2] 555h - FFFh [Data3] 555h - FFFh	[D [Da
A. IRIS LEVEL	0SI:1D):[Data]	QSI:1D	OSI:1D:[Data]	00h - 64b	0
Request IRIS F No.		_	QIF	OIF:[Data]	0411 0Eh (=14) - 1Ch (=28) - 38h (=56) - A0h (=160) - FFh	
SHUTTER SW	0SG:59):[Data]	QSG:59	OSG:59:[Data]	0 1	OFF ON
SHUTTER MODE	0SG:5A	:[Data]	QSG:5A	OSG:5A:[Data]	0 1	SHUTTE Sync

Image: state in the state			Data Contents		_	-	-	_	_	_	_		-	-	-		_	F	lemarks	_	_
I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <thi< th=""> <thi< th=""> <thi< th=""></thi<></thi<></thi<>		Data	Control and Response to contol	mation	E300/A	E600	E800	E800A	E350	E650	E655	E750	E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 1 2 3 4	x1.4 x2.0 x4.0 x6.0 x8.0																		
Image: state		0h 1h 2h 3h 4h 5h 6h 7h 8h 9h Ah 9h Ah Bh Ch Dh Eh 10h 11h 12h 13h 14h 15h 16h	720/60p 720/59.94p 720/50p 1080/60i 1080/59.94i 1080/29.97psF 1080/29.97psF 1080/25psF 1080/24psF 1080/24psF 1080/23.98psF 480/59.94i 480/29.97psF 576/50i 576/25psF 1080/59.94p 1080/59.94p 576/50p 480/59.94p 576/50p 1080/29.97p 1080/29.97p 1080/23.98p																		
i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i		0 1 0	TYPE2 (FUTT BAR/EBU) TYPE1 (SMPTE) OFF																		
1 $1 + 1 + 1 + 1 + 1$ Image: Constraint of the second of the secon		0	ON OFF																		
		1 2	LowCUT VOICE																		
$ \begin{bmatrix} \mathbf{v} & \mathbf{v}$		0 1																			
NoteNoteNoteNoteNoteNoteNote $\frac{1}{2}$ $\frac{1}{10}$ <		0 1 2 3 4 2 3 4	<u> 0ff</u> 0ff 0ff 1/60 1/50 1/100 1/120 1/125 1/250 <u> AW-UE150 1/120 1/120 1/120 1/250 1/250 </u>																		
$ \left \begin{array}{c c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c c c } \hline \begin{tabular}{ c c } \hline \begin{tabular} c c } \hline \be$		0 1 2 3	OFF LOW MID HIGH																		
Data1 Sobs Data12com Position Inde Tote		[Data1] 0 1 2 3 4 5 6 [Data2] (Ver.String)	[Data1] SYSTEM VERSIO CAM MAIN NETWORK ROM TABLE CAM FPGA AVIO FPGA OPTION FPGA [Data2] (ex) 01.00-000-0	IN 10. 00																	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	13]	[Data1] 555h - FFFh [Data2] 555h - FFFh [Data3] 555h - FFFh	[Data1]Zoom Posi Wide - Tele [Data2]Focus Pos Near - Far [Data3]Iris Posi Close - Open	tion ition tion																	
0 free for the set of t		00h - 64b	0 - 100																		
0 0FF		0Eh (=14) - 1Ch (=28) - 38h (=56) - A0h (=160) - FFh	F1. 4 F2. 8 F5. 6 																		
0 SHUTTER 1 SYNC		0 1	OFF ON																		
		0 1	SHUTTER SYNC																		

					Rema	arks								
E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/U
		•								V1.00	V1.00			
										V1.00	V1.00			
										[59.94Hz] supports only	[59.94Hz] supports only			
										1h (720/59.94p)	1h(720/59.94p)			
										7h (1080/29. 97psF)	7h (1080/29. 97psF)			
										10h (1080/59, 94p) 14h (1080/29, 97p)	10h (1080/59, 94p) 14h (1080/29, 97p)			
										[50Hz]	[50Hz]			
										supports only	supports only			
										5h (1080/50i)	5h (1080/50i)			
										8h (1080/25psF) 11h (1080/50p)	8h(1080/25psF) 11h(1080/50p)			
										15h (1080/25p)	15h (1080/25p)			
									V1.21+AW-SFU01	V1.00	V1.00			V1.00
									V1.21+AW-SFU01	V1.00	V1.00			
											N/1 00			
									V1.21+AW-SFUU1	VI. 00	VI. 00			
										V1_00	V1_00			
										V1.00	V1.00			
										V1.00	V1.00			V1.00
									V1. 48	V1. 17	V1.00			
									supports only O(OFF).	supports only O(OFF).	supports only O(OFF).			
									1 (LOW), 3 (HIGH)	1 (LOW), 3 (HIGH)	1 (LOW), 3 (HIGH)			
												V7 00		
												V7. 00		
												V7. 00		
												V7. 00		V1. 00
												V7. 00		
						 			 	 		V7. 00		



	I I I I I I I I I I I I I I I I I I I														-									
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Data Contents Control and Response to contol	Confirmation	E300/A E600	E800 E800A	E350 E650	E655 E750	E860 HE100	HC1500 HC180	00 HE870	Rer HE50	HE60	HE120	HE130	HE40/HE65/HE70/H /HE58/HE35/HE38/ 8/HN40/HN65/HN	IE48 /HN3 70	3 HE75/HE42/HE68	UB300	HR140	UE150/UE155/
SHUTTER SPEED	OSG:5D:[[Data]	QSG : 5D	OSG: 5D: [Data]	00h 01h 02h 03h 04h 05h 08h 00h 0Bh 0Ch 0Dh 0Eh 0Fh 10h 11h	1/48 1/50 1/96 1/100 1/125 1/250 1/500 1/1000 1/1500 1/2000 180.0deg 172.8deg 144.0deg 120.0deg 90.0deg 45.0deg																V7. 00 (59. 94p/59. 94i) 04h (1/100) 05h (1/120) 06h (1/125) 07h (1/250) 08h (1/500) 09h (1/1000) 0Ah (1/1500) 0Bh (1/2000) 0Ch (1/180. 0deg) 0Dh (1/172. 8deg) 0Eh (1/144. 0deg) 0Fh (1/120. 0deg) 11h (1/45. 0deg) (50p/50i) 02h (1/60) 04h (1/100) 06h (1/125) 07h (1/250) 08h (1/500) 09h (1/1000) 0Ah (1/1500) 09h (1/1000) 0Ch (1/180. 0deg) 0Dh (1/172. 8deg) 0Eh (1/144. 0deg) 0Fh (1/120. 0deg) 10h (1/90. 0deg) 11h (1/45. 0deg) (29. 97p/23. 98p) 00h (1/48) 01h (1/50) 02h (1/60) 03h (1/96) 04h (1/100) 05h (1/125) 07h (1/250) 08h (1/500) 09h (1/1000) 0Ah (1/1500) 09h (1/1000) 0Ah (1/125) 07h (1/250) 08h (1/250) 09h (1/148) 01h (1/96) 04h (1/1000) 0Ah (1/1500) 09h (1/1000) 0Ah (1/125) 07h (1/250) 08h (1/2000) 0Ch (1/180. 0deg) 0Dh (1/172. 8deg) 0Dh (1/125) 07h (1/250) 08h (1/2000) 0Ch (1/180. 0deg) 11h (1/45. 0deg) 0Dh (1/172. 8deg) 0Dh (1/125) 07h (1/250) 08h (1/2000) 0Ch (1/180. 0deg) 0Dh (1/125) 07h (1/250) 000 (1/148) 000 (1/148) 000 (1/148) 000 (1/148) 000 (1/148) 000 (1/148) 00 (1/140. 0deg) 00 (1/140. 0deg) 00 (1/148) 00 (1/140. 0deg) 00 (1/148) 00 (1/140. 0deg		
R GAIN	OSG : 39 : [[[Data]	QSG:39	OSG:39:[Data]	418h 	-1000 - 0 -																V7. 00		V1.00 support only 738h(-200) -
B GAIN	0SG:3A:[[[Data]	QSG : 3A	OSG:3A:[Data]	BE8h 418h - 800h -	1000 -1000 - 0 -								-								V7. 00		8C8h(200) V1.00 support only 738h(-200) -
M-PED	OSG:4A:[[[Data]	QSG:4A	OSG:4A:[Data]	1Dh - 80h - E3h	-99 - 0 - 99																V7. 00		
R PEDESTAL	OSG:4C:[[[Data]	QSG:4C	OSG:4C:[Data]	4E0h _ 800h _ B20h	-800 - 0 - 800								-								V7. 00		
B PEDESTAL	OSG : 4E : [[[Data]	QSG:4E	OSG:4E:[Data]	4E0h _ 800h _ B20h	-800 - 0 - 800								-								V7. 00		
MATRIX	0SG:A0:[[[Data]	QSG:A0	OSG:AO:[Data]	0 1	OFF ON								-								V7. 00		
MATRIX (R-G)_N	OSG:A5:N:	[Data]	QSG:A5:N	OSG:A5:N:[Data]	- 1Fh - 3Eh	-31 - 0 - +31																¥7.00		
MATRIX (R-G)_P	0SG:A5:P:	[Data]	QSG:A5:P	OSG:A5:P:[Data]	00h - 1Fh - 3Eh	-31 - 0 - +31								-								V7. 00		
MATRIX (R-B)_N	OSG:A6:N:	[Data]	QSG:A6:N	OSG:A6:N:[Data]	00h - 1Fh - 3Eh	-31 - 0 - +31																V7. 00		
MATRIX (R-B)_P	OSG:A6:P:	[Data]	QSG : A6 : P	OSG:A6:P:[Data]	00h - 1Fh - 2Eh	-31 - 0 -								-								V7. 00		
MATRIX (G-R)_N	OSG:A7:N:	[Data]	QSG: A7: N	OSG:A7:N:[Data]	00h - 1Fh - 2Eh	-31 -0 																V7. 00		
MATRIX (G-R)_P	OSG : A7 : P :	[Data]	QSG:A7:P	OSG:A7:P:[Data]	00h - 1Fh - 25h	-31 - 0 -								-								V7. 00		
MATRIX (G-B)_N	OSG:A8:N:	[Data]	QSG: A8: N	OSG:A8:N:[Data]	00h - 1Fh - 255	+31 -31 - 0 -								-								V7. 00		
MATRIX (G-B)_P	OSG : A8 : P :	[Data]	QSG : A8 : P	OSG:A8:P:[Data]	00h - 1Fh -	+31 -31 - 0 -								-								V7. 00		
MATRIX (R-P) N	U66 · YU · N · I	[Data]	DSG · AQ · N	066.N0.N.LDa+21	3Eh 00h - 1Fh	+31 -31 - 0								-								V7. 00		
	050-89-8-	[vutu]	404-73-N	vou∙n∍∙n•[Vätä]	- 3Eh 00h	- +31 -31																V7. 00		
MATRIX (B-R)_P	OSG∶A9∶P∶	[Data]	QSG:A9:P	OSG:A9:P:[Data]	– 1Fh – 3Eh	- 0 - +31																		

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						Da	ta Cont
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol	Resp
MATRIX (B-G)_N	OSG: AA:	:N:[Data]	QSG:AA:N	OSG:AA:N:[Data]	00h _ 1Fh		-31 - 0
					3Eh		+31
MATRIX (B-G)_P	OSG:AA:	:P:[Data]	QSG : AA : P	OSG:AA:P:[Data]	00h 1Fh 		-31 - 0 -
		1:[Doto]	020:44	000.44.[Data]	3Eh 0		+31 A
COLOR CORRECT TABLE	056 - 80	+ [Data]		056:R4:[Data]	1 0		B OFF
SKIN AREA TARLE	050.81	1:[Data]	0%G·B1	050-B1-[Data]	0		ON A
SKIN ARLA TADL	030.01	ι.[Data]	Q30.D1		1 01h		B -127
SKIN AREA HUE	0SG : B2	2:[Data]	QSG:B2	OSG:B2:[Data]	_ 80h _		0
					FFh 01h		+127
SKIN AREA TONE	OSG : B3	3:[Data]	QSG:B3	OSG:B3:[Data]	_ 80h		_ 0
					– FEh		- +126
CHROMA LEVEL SWITCH	0SG:93	3:[Data]	QSG:93	OSG:93:[Data]	0 1	100 1	OFF ON
COLOR TEMPERATURE INC	0SI:1E	E:[Data]	-	-	- Ah	INC 1 INC 10	
COLOR TEMPERATURE DEC	OSI:1F	:[Data]	_	_	1h -	DEC 1	
					Ah [Data1]	DEC 10	[Data
					00000h 		0K - 104857
COLOR TEMPERATURE	0SI:20:[Da	ta1]:[Data2]	QSI:20	OSI:20:[Data1]:[Data2]	[Data2] Oh		[Data Valio
					1h 2h		Unde Over
					00h		00
V DETAIL LEVEL	0SG:32	2:[Data]	QSG:32	OSG:32:[Data]	_ 3Fh		- 63
	056-30).[Data]	056-30	056.30.[Data]	00h 04h		0 - 4
FLAN FREQUENCI	030.30	Γιματα]	Q30.30	030.30.[Dala]	- 1Fh		- 31
					00h 		0
V DETAIL FREQUENCY	USG:35	o∶[Data]	QSG:35	OSG:35:[Data]	- 1Fh		4 - 31
DETAIL +CLIP	0SG:40):[Data]	QSG:40	OSG:40:[Data]	00h		0
	056-11	1. [Data]	056-41	056 · 41 · [Dete]	00h		0
	030.41	ι.[νατα]	Q30.41		3Fh 00h		63 0
KNEE APERTURE LEVEL	OSG:3F	:[Data]	QSG:3F	OSG:3F:[Data]	27h		_ 39
LEVEL DEPENDENT SWITCH	OSG:3E	E:[Data]	QSG:3E	OSG:3E:[Data]	0 1		OFF ON
MEMORY SELECT	0SG:42	2:[Data]	QSG:42	OSG:42:[Data]	0 1 2		A B C
					000h _		0 -
H POSITION	0SG:44	4:[Data]	QSG:44	OSG:44:[Data]	190h	(C	100.00).25% S
	000.45				000h 		0
V POSITION	056.45	D.[Data]	QSG - 45	USG:45.[Data]	13011	(0). 25% S
					0 1 2		A B
ZEBRA EFFECT MEMORY	0SG:47	7:[Data]	QSG:47	OSG:47:[Data]	2 3 4		A+B A+C
					5 6		B+C A+B+C
					0 1		A B
SKIN TONE EFFECT MEMORY	0SG:48	B:[Data]	QSG:48	OSG:48:[Data]	2 3 4		C A+B A+C
					5 6		B+C A+B+C
					41h _		-63
SKIN TONE CRISP	0SG:49	9∶[Data]	QSG:49	OSG:49:[Data]	80h _ BEb		0 - +63
SKIN TONE	056-46	- [Data]	05G · 4E	096 · 4E · [Data]	000h		0
Q PHASE		·[butu]	404 · H		167h 1		359 1
DNR LEVEL	OSG:B5	5:[Data]	QSG:B5	OSG:B5:[Data]	- 5		- 5
HAZE REDUCTION	OSG:B6	6∶[Data]	QSG:B6	OSG:B6:[Data]	0 1		OFF ON
HAZE REDUCTION LEVEL	OSG:B7	7:[Data]	QSG:B7	OSG:B7:[Data]	- 3		1 - 3
GEN-LOCK INPUT	OSG:CA	A:[Data]	QSG:CA	OSG:CA:[Data]	0 1		BNC DSUB
					3h -		-5
H PHASE-COARSE	OSG:CE	3∶[Data]	QSG:CB	OSG:CB:[Data]	8n - Dh		0 - +5
					1Ch _		-100
H PHASE-FINE	OSG:CC	C:[Data]	QSG:CC	OSG:CC:[Data]	80h		0 -
					1 1		+100 YL
CROP OUT SEL	0SI:16	5∶[Data]	QSI:16	OSI:16:[Data]	23		MG
CROP ADJ SEL	OSI:17	7:[Data]	QSI:17	OSI:17:[Data]	1 2 3		YL G MG
	1				[Data1] 01	[Data1] Left Max. Speed	
					_ 50	Stop	
CROP H/V POSITION	001-16-50	ta1].[Do+o0]	_	_	99	Right Max. Speed	
Speed Control	υστιτοι[μα	ι]·[ναιαζ]			[Data2] 01 -	[Data2] Down Max. Speed _	
					_ 50 _	Stop -	
	1				99	UP Max. Speed	

		Data Contents													Rema	arks		
	Data	Control and Response to Confirmation	E300/A E6	00 E800	E800A	E350	E650	E655	E750	E860 F	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130
	00h -	-31 -	I						<u> </u>									
	1Fh 3Eh	0 - +31																
	00h	-31																
	1Fn 3Eh	- +31																
	0 1	A B																
	0 1 0	OFF ON A																
	1 01h	B -127																
	- 80h 																	
	01h	-127																
	80h _ FEb	0 _ +126																
	0	OFF ON																
	1h - Ah	INC 1 INC 10																
	1h -	DEC 1																
	[Data1] 00000h	[Data1] OK																
	- FFFFFh [Data2]	– 1048575K [Data2]																
	0h 1h 2h	Valid Under Over																
	00h	00																
	- 3Fh	63																
	00h _ 04h	- 4																
	1Fh 00h	31 0																
	- 04h -	- 4 -																
	00h -	0																
	3Fh 00h	63 0 -																
	3Fh 00h	63 0																
	- 27h 0	- 39 0FF																
	1 0	ON A																
	2 000h	C 0																
	_ 190h	- 100.00% (0.25% Step)																
	000h _	0																
	190h	100.00% (0.25% Step)																
	0 1 2	A B C																
	3 4 5	A+B A+C B+C																
	6 0	A+B+C A																
	2 3	C A+B																
	4 5 6	A+C B+C A+B+C																
	41h 	-63																
	_ BFh	+63																
	000h _ 167h	0 																
	1 - 5	1 - 5																
	0 1	OFF ON																
	1 - 3	$\frac{1}{-3}$																
	0 1	BNC DSUB																
	- 8h	- 0																
	Dh 1Ch	+5 -100																
	- 80h -	0 																
	E4h 1 2	+100 YL G																
	3	MG YL																
	2 3 [Nata1]	G MG [Data1]																
	01 - 50	Left Max. Speed																
	- 99	Right Max. Speed																
	[Data2] 01 -	[Data2] Down Max. Speed -																
	50 - 99	Stop - UP Max. Speed																
1		-r	1												1	1		l

					Rema	arks								
E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/L
	<u> </u>											V7. 00		
												V7 00		
												¥7.00		
												V7. 00		
												V7.00		
												V7. 00 V7. 00		
												V7. 00		
												V7. 00 V7. 00		 V1. 00
												supports only 1h(INC 1) V7.00		V1.00
												supports only 1h(DEC 1) V7.00		V1.00
												supports only Confirmation Command		[Data1] suppor only 007D0h(2000K) _
														03A98h(15000K) [Data2] suppor only
												V7. 00		0(valid)
												V7. 00		
												[In case HD format] OOh(O) - 1Fh(31) [In case 4K format]		
												00h(0) - 04h(4) V7.00 [In case HD format]		
												00h(0) - TFh(3T) [In case 4K format] 00h(0) - 04h(4)		
												¥7.00		
												V7. 00		
												V7.00		V1.00 supports only 00h(0) - 05h(5
												V7. 00 V7. 00		
												V7. 00		
												V7. 00		
												V7. 00		
												V7. 00		
												V7. 00		
												V7.00		
												V7. 00		
												V7. 00 V7. 00	V1.00 V1.00	
												V7. 00		
												V7. 00		
												V7. 00		
												V7. 00		V1. 00
												V7. 00		V1.00
												V7. 00		V1. 00

ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol
CROP MARKER SEL	OSI : 1A	i [Data]	QSI:1A	OSI:1A:[Data]	0 1 2 3 4 5 6 7	OFF YL G MG YL+G YL+MG G+MG YL+G+M
CROP H POSITION	OSI:1B	3:[Data]	QSI:1B	OSI:1B:[Data]	738h _ 800h _ 8C8h	-50% - 0% - +50% (0. 25% \$
CROP V POSITION	0SI:10):[Data]	QSI:1C	OSI:1C:[Data]	738h 800h 8C8h	-50% - 0% - +50% (0. 25% S
Preset Digital Extender Enable	0SE : 70	C:[Data]	QSE : 7C	OSE:7C:[Data]	0 1	OFF ON
Preset Zoom Mode	OSE : 7D):[Data]	QSE : 7D	OSE:7D:[Data]	0 1	Mode Mode
Super Gain	0SI:28	3:[Data]	QSI:28	OSI:28:[Data]	0 1	OFF ON
ATW Speed	0SI:25	i:[Data]	QSI:25	OSI:25:[Data]	0 1 2	Norma Slow Fast
ATW Width	0S1:26	:[Data]	QS1:26	OSI:26:[Data]	1 2 3 4 5	1 2 3 4 5
Intelligent	0SI:21	:[Data]	QSI:21	OSI:21:[Data]	0 1 2	Off On Lock
Intelligent Mode	0SI:22	2:[Data]	QSI : 22	OSI:22:[Data]	0 1	AE AE+AT
Intelligent ND Filter	0SI:23	3:[Data]	QSI:23	OSI:23:[Data]	0 1 2 3	Throug 1/8 1/64 Auto
Intelligent AGC Mode	0S1:24	¦∶[Data]	QSI:24	OSI:24:[Data]	0 1 2	Norma Sport SN
3G SDI Out	0SI : 29):[Data]	QSI:29	OSI:29:[Data]	0 1	Level Level
Option Device Type		_	QSI:2A	OSI:2A:[Data]	[AK-UB300] 0 1 2 3	[AK-UB3 no opti 4K defa 12G opt TICO opt
Audio Line Input Level	OSA : D4 : [Da	ta1]:[Data2]	QSA:D4:[Data1]	OSA:D4:[Data1]:[Data2]	[Data1] 0 1 [Data2] 0 1 2	[Data1 CH1/CH CH2/CH [Data2 +4dB 0dB -20dB
Audio Output Volume	OSA:D5:[Da	ta1]:[Data2]	QSA:D5:[Data1]	OSA:D5:[Data1]:[Data2]	[Data1] 0 1 2 3 [Data2] 58h - 80h - 80h	[Data1 CH1 CH2 CH3 CH4 [Data2 -40dB - 0dB - 12dB
Audio Head Room	OSA:D6	:[Data]	QSA:D6	OSA:D6:[Data]	0 1 2	FS-12c FS-18c FS-20c
Audio Line CH Select	OSA:D7	/:[Data]	QSA:D7	OSA:D7:[Data]	0 1 2 3	All CH1/CH CH3/CH None
DC Out	0S1 : 2B	3:[Data]	QSI:2B	OSI:2B:[Data]	0 1	OFF ON
HDR SW (MAIN)	0SI:20	C:[Data]	QSI:2C	OSI:2C:[Data]	0 1	OFF ON
COLORIMETRY	OS I : 2D	D:[Data]	QSI:2D	OSI:2D:[Data]	00h 01h	no effe BT.70
HDR SW (SDI1)	OSI:2E	:[Data]	QSI:2E	OSI:2E:[Data]	0 1	OFF ON

Confirmation Command	Reply for Confirmation Command	Data	Data Contents Control and Response to contol Response to Confirmation	E300/A E600	E800 E800A	E350 E650	E655	E750 E860	HE100 H	IC1500 HC18	00 HE870	Ren HE50	arks HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	3 3 UE70/UN70/UE65/UE65	3 HE75/HE42/HE68	UB300	HR140
QSI:1A	OSI:1A:[Data]	0 1 2 3 4 5 6 7	OFF YL G MG YL+G YL+MG G+MG YL+G+MG																V7.00 supports only 1 (YL) 2 (G) 3 (MG) 4 (YL+G) 5 (YL+MG) 6 (G+MG) 7 (YL+G+MG)	
QSI:1B	OSI:1B:[Data]	738h 	-50% - 0% - +50% (0.25% Step)																V7.00	
QSI:1C	OSI:1C:[Data]	738h _ 800h _ 8C8h	-50% - 0% +50% (0.25% Step)																V7. 00	
QSE:7C	OSE:7C:[Data]	0 1	OFF ON												V2. 00					V1.00
QSE : 7D	OSE:7D:[Data]	0 1	Mode A Mode B																	V1. 00
QSI:28	OSI:28:[Data]	0 1	OFF ON																	V1. 00
QSI:25	OSI:25:[Data]	0 1 2	Normal Slow Fast																	V1.00
QSI:26	OSI:26:[Data]	1 2 3 4 5	1 2 3 4 5																	V1.00
QSI:21	OSI:21:[Data]	0 1 2	Off On Lock																	V1.00
QSI:22	OSI:22:[Data]	0 1	AE AE+ATW																	V1.00
QSI:23	OSI:23:[Data]	0 1 2 3	Through 1/8 1/64 Auto																	V1.00
QSI:24	OSI:24:[Data]	0 1 2	Normal Sports SN																	V1.00
QSI:29	OSI:29:[Data]	0 1	Level A Level B																	V1.00
QSI:2A	OSI:2A:[Data]	[AK-UB300] 0 1 2 3	[AK-UB300] no option 4K default 12G option TICO option																V7. 40	
QSA:D4:[Data1]	OSA:D4:[Data1]:[Data2]	[Data1] 0 1 [Data2] 0 1 2 [Data1]	[Data1] CH1/CH3 CH2/CH4 [Data2] +4dB 0dB -20dB																	V1.00
JSA∶D5∶[Data1]	OSA:D5:[Data1]:[Data2]	0 1 2 3 [Data2] 58h - 80h - 80h	CH1 CH2 CH3 CH4 [Data2] -40dB - 0dB - 12dB																	
QSA:D6	OSA:D6:[Data]	0 1 2	FS-12dB FS-18dB FS-20dB																	V1.00
QSA:D7	OSA:D7:[Data]	0 1 2 3	AII CH1/CH2 CH3/CH4 None																	V1.00
QSI:2B	OSI:2B:[Data]	0 1	OFF ON																	V1.00
QS1:2C	OSI:2C:[Data]	0 1	OFF ON																V7. 30	
QSI:2D	OSI:2D:[Data]	00h 01h	no effect BT. 709																V7. 30	
QSI:2E	OSI:2E:[Data]	U 1	UFF ON																IV 7. 3U	

								Rema	arks								
E650	E655	E750	E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/U
I															V7.00 supports only		V1.00
															1 (YL) 2 (G) 3 (MG)		
															4 (YL+G) 5 (YL+MG) 6 (G+MG)		
															7 (YL+G+MG) V7.00		
															V7.00		
															V7.00		
											V2. 00					V1.00	V1.00
																V1.00	V1.00
																V1.00	V1.00
																V1.00	V1.00
																V1. 00	
																V1.00	
																V1.00	
																V1.00	
																V1 00	
																V1. 00	
																V1.00	V1.00
															V7. 40		
																V1.00	
																V1.00	V1.00 [Data1] supports only
																	0(CH1) [Data2] supports only
																	5Ch (-36dB) - 8C (12dB)
																V1.00	
																V1.00	
																V1.00	
															V7. 30		
															V7. 30		
															V7. 30		

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ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Da Control and Response to contol	ta Contents Response to Confirmation		E300/A	E600
HDR SW (LAN)	0S1:2F	:[Data]	QSI:2F	OSI:2F:[Data]	0 1		OFF ON			
SHOOTING MODE	051:30):[Data]	QSI:30	OSI:30:[Data]	0 1	ŀ	NORMAL IIGH SENS.			
HDR SW (SD12)	0SI:31	l:[Data]	QSI:31	OSI:31:[Data]	0 1		OFF ON			
					0		EIII 1			
HD-SDI2 OUT SEL	0SI:32	2:[Data]	QSI:32	OSI:32:[Data]	1		CROP			
LAN OUT SEL	0SI:33	3:[Data]	QSI:33	OSI:33:[Data]	0 1 1Ch		FULL CROP -100			
MASTER FLARE	0SG:96	∂:[Data]	QSG:96	OSG:96:[Data]	_ 80h _ E4h		0 100			
					0 1 2		HD FILMLIKE1 FILMLIKE2			
GAMMA MODE SELECT	0SG:86	5∶[Data]	QSG:86	OSG:86:[Data]	3 4 5		FILMLIKE3 FILM REC VIDEO REC			
MASTER GAMMA INC	0\$1:37	7:[Data]	_	-	1	INC				
MASTER GAMMA DEC	0SI:38	3:[Data]	-	_	1	DEC				
					05DCh		0. 1500			
MASTER GAMMA		-	QSI:34	OSI:34:[Data]	1194h _ 1D4Ch		0. 4500 - 0. 7500			
					35h _		-75			
R GAMMA	0SI:35	5:[Data]	QSI:35	OSI:35:[Data]	80h _ CBh		0 - +75			
	051-36	S:[Data]	001-26	001-26-[D_+_]	35h - 80h		-75 - 0			
B GAMMA	051.30	D. [Data]	QS1-30	USI:30.[Data]	CBh		+75			
A. KNEE RESPONSE	0SG:97	7:[Data]	QSG:97	OSG:97:[Data]	1 - 8		1 - 8			
HLG MODE (HDR PAINT)	0SI:39	9:[Data]	QS1:39	OSI:39:[Data]	0 1		F1X VAR			
SDR CONVERT MODE (HDR PAINT)	051:34	A:[Data]	QSI:3A	OSI:3A:[Data]	0 1		FIX VAR			
HLG TYPE SELECT (HDR PAINT)	0S I : 3E	3:[Data]	QSI:3B	OSI:3B:[Data]	0 1		NORMAL STRETCH			
BLACK GAMMA SW (HDR PAINT)	081:30	C:[Data]	QSI:3C	OSI:3C:[Data]	0 1		OFF ON			
MASTER BLACK GAMMA					60h - 80h		-32 - 0			
(HDR PAINT)	0S I : 3E):[Data]	QSI:3D	OSI:3D:[Data]	– A0h		+32			
R BLACK GAMMA	051-35	: [Doto]	061-35	001-2E-[Do+o]	60h _ 80h		-32 - 0			
(HDR PAINT)	001.0	[Data]	USI-SE	USI.JL.[Data]	_ A0h		+32			
B BLACK GAMMA	0S I : 3F	-:[Data]	QSI:3F	OSI:3F:[Data]	60h _ 80h		-32 - 0			
					A0h		+32			
KNEE SW (HDR PAINT)	0SI:40	D:[Data]	QSI:40	OSI:40:[Data]	1		ON EE COO			
					1Ch _ 30h		55.00% _ 60.00%			
	0SI:41	l:[Data]	QSI:41	OSI:41:[Data]	_ 80h _		80. 00% _			
					D0h _ F4h		100.00% _ 109.00%			
					00h	(1	step=0.25%) 0			
(HDR PAINT)	0SI:42	2:[Data]	QSI:42	OSI:42:[Data]	- C7h 74h		- 199 -12			
SDR CONVERT GAIN (HDR PAINT)	0SI:43	3:[Data]	QSI:43	OSI:43:[Data]	77h 7Ah 7Dh		-9 -6 -3			
SDR CONVERT CLIP	N · 120	1·[Data]	051-14	[a+a0] · M· 120	0 1		LOW			
(HDR PAINT) GAMUT	051:45	5:[Data]	QSI:45	001:44:[butu]	2 0 1		HIGH NORMAL			
					00000000h 00000001h		No Error Fan Error			
					0000002h 00000004h 00000008h		High Temperature Lens Error Pan/Tilt Error			
ERROR INFORMATION		-	QSI:46	OSI:46:[Data]	00000010h		Sensor Error ※bit0:Fan Error, bit1:High			
							≀emperature, bit2:Lens Error, bit3:Pan∕Tilt Error, bit4:Sensor Error			
Auto Iris Speed	0SJ:01	l:[Data]	QSJ:01	OSJ:01:[Data]	0h 1h շե		Slow Normal Fast			
Auto Iris Window	0SJ:02	2:[Data]	QSJ:02	OSJ:02:[Data]	0h 1h		Normal1 Normal2			
					2h 0h 1h		Center Off Step			
Shutter Mode	0SJ:03	s∶[Data]	QSJ:03	OSJ:03:[Data]	2h 3h 01b	1	Synchro ELC 			
Step INC	0SJ:04	4:[Data]	-	-	- 64h	100				
Step DEC	0SJ:05	5:[Data]	-	-	64h	1 — 100				

eply for Confirmation Command	Data	Da Control and Response to contol	ata Contents Response to Confirmation	E300/A E6	600 E	E800 I	E800A	E350	E650	E655	E750	E860	HE100	HC1500	HC1800	HE870	Rem HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	ŀ
OSI:2F:[Data]	0 1		OFF ON																				
OSI:30:[Data]	0 1		NORMAL HIGH SENS.																				
OSI:31:[Data]	0 1		OFF ON																				
OSI:32:[Data]	0 1		FULL CROP																				
OSI:33:[Data]	0 1 1Ch		FULL CROP -100																				
OSG:96:[Data]	- 80h - E4h		- 0 - 100 HD																				
OSG:86:[Data]	1 2 3 4 5		FILMLIKE1 FILMLIKE2 FILMLIKE3 FILM REC VIDEO REC																				
_	1	INC																					
_	1	DEC																					
OSI:34:[Data]	05DCh _ 1194h _ 1D4Ch		0. 1500 - 0. 4500 - 0. 7500																				
OSI:35:[Data]	35h - 80h - CBh		-75 - 0 - +75																				
OSI:36:[Data]	35h 80h - CBh		-75 - 0 - +75																				
OSG:97:[Data]	1 - 8		1 - 8																				
OSI:39:[Data]	0 1		FIX VAR																				
OSI:3A:[Data]	0 1		FIX VAR																				
OSI:3B:[Data]	0 1		NORMAL STRETCH																				
OSI:3C:[Data]	0 1		OFF ON																				
OSI:3D:[Data]	60h - 80h - A0h		-32 - 0 - +32																				
OSI:3E:[Data]	60h - 80h - A0h		-32 - 0 - +32																				
OSI:3F:[Data]	60h - 80h - A0h		-32 - 0 - +32																				
OSI:40:[Data]	0 1		OFF ON																				
OSI:41:[Data]	1Ch - 30h - 80h - D0h - F4h	(1	55.00% - 60.00% - 80.00% - 100.00% - 109.00% 1step=0.25%)																				
OSI:42:[Data]	00h - C7h		0 - 199																				
OSI:43:[Data]	74h 77h 7Ah 7Dh 80h		-12 -9 -6 -3 0																				
OSI:44:[Data]	0 1 2		LOW MID HIGH																				<u></u>
OSI:45:[Data]	0 1		NORMAL WIDE_G																				
OSI:46:[Data]	00000000h 00000001h 00000002h 00000004h 00000008h 00000010h		No Error Fan Error High Temperature Lens Error Pan/Tilt Error Sensor Error Xbit0:Fan Error, bit1:High Temperature, bit2:Lens Error, bit3:Pan/Tilt Error, bit4:Sensor Error																				
OSJ:01:[Data]	0h 1h 2h		Slow Normal Fast																				
OSJ:02:[Data]	 0h 1h		Normal1 Normal2 Center																				
OSJ:03:[Data]	2h 0h 1h 2h 3h		Off Step Synchro ELC	 																			
_	01h - 64h	1 100																					
_	01h - 64h	1 100																					

						Rema	arke								
Γ	E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/U
L										8/HN40/HN65/HN70 			V7. 30		
_													V7. 30		V1.00
_													V7 30		
													11.00		
													V7. 30		V1.00
_													V7. 30		V2.00
													11.00		
													V7. 30		
													N7 00		
													V7.30		
													V7. 30		
													V7. 30		
													V7. 30		
													V7. 30		
_													V7 30		V1 00
_															
													V7. 30		
													V7. 30		
_													V7. 30		
_													V7. 30		
_													V7. 30		
_													V7. 30		
_													V7. 30		
_													V7. 30		V1.00
_													V7.30 suppurt only		V1.00 suppurt only
													30h (60%) – D0 (100%)		1Ch(55%) - DO((1step=1%)
													V7. 30		V1.00 supports only 00h - 64h
													V7. 30		
													V7. 30		
_															
															V1.00
_															V1.00
_															V1.00
															V1.00
_															
-															V1.00
															V1.00



· · · · · · · · · · · · · · · · · · ·						D-	+- 0+
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Da Control and Response to contol	Respo
Step VAL	0SJ:06	[[Data]	QSJ:06	OSJ:06:[Data]	0001h _ 2710 h		1/1 _ 1/1000
Synchro INC	0SJ:07	:[Data]	_	_	01h 	1	
Synchro DEC	0SJ:08	:[Data]	_	_	64h 01h -	100 1 —	
					64h 00000h	100	0.0 [Hz
					_ 186A0h		_ 10000.0[
	051:00	·[Data]	00 1:00	001-00-50-4-1			
Synchro VAL	020.09	.[Data]	QS1:09	USJ:U9:[Data]			
					61h		-31
Chroma Phase	OSJ:0B	:[Data]	QSJ:0B	OSJ:OB:[Data]	- 80h -		0
AWB Gain Offset	0SJ:0C	:[Data]	QSJ:0C	OSJ:OC:[Data]	9Fh 0h 1b		+31 Off
					76h -		-10
ATW Target R	OSJ:OD	:[Data]	QSJ:OD	OSJ:OD:[Data]	80h _ 8 A h		0 _ +10
					76h		-10
ATW Target B	0SJ:0E	:[Data]	QSJ:0E	OSJ:OE:[Data]	80n - 8Ah		- +10
					738h 		-200
Master Pedestal	USJ:0F	:[Data]	QSJ:0F	OSJ:OF:[Data]	- 8C8h		- +200
	00.1.10	· [D-+-]	00 1:10		032h - 096b		-100 - 0
G Pedestal	050.10	·[Data]	QSJ. 10	USJ. IV. [Data]	0FAh		- +100
Pedestal Offset	0SJ:11	:[Data]	QSJ:11	OSJ:11:[Data]	0 1		Off On
Detail Coring	0SJ:12	:[Data]	QSJ:12	OSJ:12:[Data]	- 3Ch		- 60
Level Decord	051-13	·[Data]	051-12	05 :12: [Doto]	79h - 80h		-7 - 0
Level Depend.	030.13	·[Data]	430.13		- 87h		- 7
DownCon Detail	0SJ:14	:[Data]	QSJ:14	OSJ:14:[Data]	0h 1h 61b		0FF 0N -31
DC. Master Detail	0SJ:15	:[Data]	QSJ:15	OSJ:15:[Data]	80h		- 0
					9Fh		+31
DC. Detail Coring	0SJ:16	:[Data]	QSJ:16	OSJ:16:[Data]	00h _ 3Ch		0 - 60
	00.1.17	· [D-+-]	00 1:17		79h - 80b		-7 - 0
DC. V Detail Level	050.17	.[Data]	QSJ . 17	USJ.17.[Data]	- 87h		- +7
	05.1-18	·[Data]	051-19	05 ·12 · [Doto]	7Eh - 80h		-2 - 0
DC. Detail Frequency	030.18	·[Vata]	QSJ . 18	USJ. 18. [Data]	82h		+2
DC. Level Depend.	0SJ:19	:[Data]	QSJ:19	OSJ:19:[Data]	79h _ 80h		-7 - 0
		[]			- 87h		+7
					00h 01h 02h		1 2
DC. Knee Ape Level	USJ:1A	:[Data]	QSJ:1A	OSJ:1A:[Data]	03h 04h 05h		3 4 5
B Gamma Bange	0SJ1:1B	:[Data]	0SJ:1B	0SJ:18:[Data]	1h 2h		1 2
					3h 41h		3 -63
YI_YI_G Saturation	0SJ:1C	:[Data]	QSJ:1C	OSJ:1C:[Data]	_ 80h _		0
					BFh 41h		63 -63
YI_YI_G Phase	OSJ:1D	:[Data]	QSJ:1D	OSJ:1D:[Data]	- 80h -		0
					01h 02h		63 720/59.9 720/50
					04h 05h 07h	10	1080/59 1080/5 1080/5
					08h 0Ah 10b	10	1080/25.5 1080/25 080/23.9
					10h 11h 14h		1080/59. 1080/5 1080/29.
12G SDI/OPTICAL OUT Format	0SJ:1E	:[Data]	QSJ:1E	OSJ:1E:[Data]	15h 16h 17h	1080/23	1080/29 .98p (ove 2160/29.
					18h 19h 1Ah	2	2160/29 2160/59 2160/50
					1Bh 21h 22h	2	2160/23. 2160/24 1080/24
					23h		1080/23.
12G SDI/OPTICAL OUT 3G SDI Out	0SJ:20	:[Data]	QSJ:20	OSJ:20:[Data]	0h 1h 01b		Level Level
					02h 04h		720/50
					07h 08h	10	080/29.9 1080/251 1080/251
3G SDI Out Format	0SJ:21	:[Data]	QSJ:21	OSJ:21:[Data]	0An 10h 11h		1080/23.9 1080/59. 1080/59
					14h 15h 16h	1080/23	1080/29. 1080/2 3.98p (ove
					22h 23h		1080/24 1080/23.
3G SDI Out HDR Output Select	0SJ:22	:[Data]	QSJ:22	OSJ:22:[Data]	0h 1h 2h		SDR HDR(202 HDR(70

Reply for Confirmation Command	Data	D Control and Response to contol	Data Contents Response to Confirmation	E300/A	E600	E800	E800A	E350	E650	E655	E750	E860	HE100	HC1500	HC1800	HE870	HE50	emarks	HE60	HE120	HE1	30 /	HE40/HE65/HE70/HE /HE58/HE35/HE38/H 8/HN40/HN65/HN7	48 N3 UE70/UN70/UE65/UE	63 HE75/HE42/HE68	UB300
OSJ:06:[Data]	0001h _ 2710 h		1/1 - 1/10000			1	-		-1													-				
_	01h	1																				-				
_	01h -																					-				
	00000h –	100	0.0 [Hz] -																			-				
	186A0h		10000.0[Hz]																							
OSJ:09:[Data]																										
OSJ:OB:[Data]	61h _ 80h		-31 - 0																			-				
00 1:00: [Doto]	- 9Fh 0h		- +31 Off																			-				
	1h 76h -		On -10 -																			-				
OSJ:OD:[Data]	80h _ 8Ah		0 - +10																							
	76h - 80b		-10 - 0																			-				
USJ.UE.[Data]	- 8Ah		- +10																							
OSJ:OF:[Data]	738h _ 800h		-200 - 0																			-				
	- 8C8h 032h		- +200 -100																			-				
OSJ:10:[Data]	_ 096h _		- 0 -																							
OSJ:11:[Data]	0FAh 0		+100 Off																			-				
OSJ:12:[Data]	00h _		0																			-				
	3Ch 79h -		-7 -																			-				
OSJ:13:[Data]	80h – 87h		0 - 7																							
OSJ:14:[Data]	0h 1h		OFF ON																			-				
OSJ:15:[Data]	80h		- 0 -																			_				
	9Fh		+31																							
OSJ:16:[Data]	- 3Ch		- 60																							
OSJ:17:[Data]	79h _ 80h		-7 - 0																			-				
	87h 7Eh		- +7 -2																			-				
OSJ:18:[Data]	– 80h –		- 0 -																							
	82h 79h –		+2 -7 -																			-				
OSJ:19:[Data]	80h _ 87h		0 - +7																							
	00h 01h		0 1 2																			-				
OSJ:1A:[Data]	02h 03h 04h 05h		2 3 4																							
00 · 10 · [Doto]	1h 2h		1 2																			-				
νου. ΙΟ. [Vata]	3h 41h		3 -63																			-				
OSJ:1C:[Data]	- 80h -		- 0 -																							
	41h		-63 -																			-				
OSJ:1D:[Data]	80h – BFh		0 - 63																							
	01h 02h 04b		720/59.94p 720/50p 1080/59 94i																			-				
	05h 07h 08h	1	1080/50i 1080/29.97PsF 1080/25PsF																							
	0Ah 10h 11h	1	1080/23.98PsF 1080/59.94p 1080/50p																							
OSJ:1E:[Data]	14h 15h 16h	1080/23	1080/29.97p 1080/25p (3.98p (over 59.94i/p)																							
	17h 18h 19h		2160/29.97p 2160/25p 2160/59.94p																							
	1Ah 1Bh 21h		2160/50p 2160/23.98p 2160/24p																							
	22h 23h		1080/23.98р																							
OSJ:20:[Data]	Oh 1h		Level A Level B																			-				
	01h 02h 04h		720/59.94p 720/50p 1080/59.94i 1080/50:																			-				
	03n 07h 08h	1	1080/29.97PsF 1080/25PsF 1080/23 98PsF																							
OSJ:21:[Data]	10h 11h 14b		1080/59.94p 1080/50p 1080/29.97p																							
	15h 16h 22h	1080/2	1080/25p 23.98p (over 59.94i/p) 1080/24p																							
	23h 0h		1080/23.98p																							
OSJ:22:[Data]	1h 2h		HDR(2020) HDR(709)																							

						Rem	arks								
50	E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/U
															V1.00
															V1.00 V1.00
															V1. 00
															supports only [59.94p/59.94i 60.0Hz - 7200. [29.97p] 30.0Hz - 7200. [23.98p/24p] 24.0Hz - 7200. [50p/50i] 50.0Hz~7200.0 [25p] 25.0Hz~7200.0
															V1.00
															V1.00 V1.00
															V1. 00
															V1.00
															V1.00
															V1.00 V1.00
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															V1.00



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ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Da Control and Response to contol	Resp
MONI Out Format	0SJ:23	3:[Data]	QSJ:23	OSJ:23:[Data]	01h 02h 04h 05h 07h 08h 0Ah 14h 15h 16h 22h 23h	10 10 10 1080/23	720/59. 720/50 1080/59 1080/29.9 1080/25 080/23.9 1080/23 1080/29 1080/2 3.98p (ov 1080/23
MONI Out HDR Output Select	0SJ:24	4:[Data]	QSJ:24	OSJ:24:[Data]	0h 1h 2h		SDR HDR(20 HDR(70
HDMI Out Format	0SJ: 25	5:[Data]	QSJ:25	OSJ:25:[Data]	01h 02h 04h 05h 10h 11h 14h 15h 16h 17h 18h 19h 1Ah 19h 1Ah 1Bh 21h 22h 23h	1 1080/23	720/59. 720/59. 720/59 1080/59 1080/59 1080/29 1080/29 2160/29 2160/29 2160/59 2160/53 2160/23 2160/23 2160/23
HDMI Out HDR Output Select	0SJ:26	6:[Data]	QSJ:26	OSJ:26:[Data]	0h 1h 2h		HDR(20 HDR(70
Color Bar Tone TOUTCH AF	0SJ:27 0SJ:28:[Da	7:[Data] ta1]:[Data2]	QSJ:27	OSJ:27:[Data] 	0h 1h 2h [Data1] 00h - 64h [Data2] 00h -	[Data1]H Pos. 0% - 100% [Data2]V Pos. 0% -	Off Low Norma
Proset Speed Unit	05.1.20	0.[Nata]	05.1.20	051-20-[Data]	64h 0h	100%	Speed T
Preset Crop	0SJ:24	A:[Data]	QSJ:2A	OSJ:2A: [Data]	Oh 1h		Off On
Preset Thumbnail Update	OSJ:2E	B:[Data]	QSJ:2B	OSJ:2B:[Data]	0h 1h		Off On
Preset Name	0SJ:20	C:[Data]	QSJ:2C	OSJ:2C:[Data]	0h 1h		Reset Hold
PT. Speed Mode	0SJ:2[D:[Data]	QSJ:2D	OSJ:2D:[Data]	0h 1h		Norma Fast
UHD Crop	OSJ∶2E	E:[Data]	QSJ:2E	OSJ:2E:[Data]	0h 1h 2h		Off Crop(10 Crop(72
Crop H POS. (YL)	OSJ:2F	F:[Data]	QSJ:2F	OSJ:2F:[Data]	000h - 780h - A00h		0 - 1920 - 2560
Crop V POS. (YL)	0SJ:30	D:[Data]	QSJ:30	OSJ:30:[Data]	000h - 438h - 5A0h		0 - 1080 - 1440
Crop H POS. (G)	OSJ:31	1:[Data]	QSJ:31	OSJ:31:[Data]	000h _ 780h _ A00h		0 - 1920 - 2560
Crop V POS. (G)	0SJ:32	2:[Data]	QSJ:32	OSJ:32:[Data]	000h - 438h - 5A0h		0 - 1080 - 1440
Crop H POS. (MG)	0SJ:33	3:[Data]	QSJ:33	OSJ:33:[Data]	000h _ 780h _ A00h		0 - 1920 - 2560
Crop V POS. (MG)	0SJ:34	4:[Data]	QSJ:34	OSJ:34:[Data]	- 438h - 5A0h [Data1]		0 - 1080 - 1440 [Data]
Save Preset Name (Single)	0SJ:35:[Da	ta1]:[Data2]	QSJ:35:[Data1]	OSJ:35:[Data1]:[Data2]	- 99 [Data2] xxxxxxxxxxxxx	Preset Nam	Preset Preset [Data2 e (Fixed
Delete Preset Name (Single)	0SJ:36	6:[Data]			[Data] 00 - 99	[Data] Preset001 - Preset100	
Update Preset Thumbnail	0SJ:39	9:[Data]			[Data] 00 - 99	[Data] Preset001 - Preset100	
Delete Preset Thumbnail (Single)	0SJ:34	A:[Data]			[Data] 00 - 00	LUataj Preset001 - Preset100	
Delete Preset Thumbnail (All)	05	J:3B			-		
Preset Name / Preset Thumbnail Counter	-		QSJ:3C:[Data1]	OSJ:3C:[Data1]:[Data2]	00h 01h 02h 03h 04h 05h 06h 07h 08h 09h 0Ah 0Bh [Data2] 00000000h FFFFFFFFF		
Zoom Scale	-		QSJ:3D	OSJ:3D:[Data]	000h - 2E7h		
Operation Lock	OSJ:3F	E:[Data]			3E/h	Any Information (40	
Release Operation Lock	0\$	J:3F			-	Unaractors)	

			Da	ta Contents											Re	emarks							 _
	Reply for Confirmation Command	Data	Control and Response to contol	Response to Confirmation	E300/A	E600 E800	E800A	E350 E65	50 E655	E750	E860 H	HE100 HC15	00 HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE4 /HE58/HE35/HE38/HN 8/HN40/HN65/UN70	8 3 UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	
		01h 02h		720/59.94p 720/50p					<u> </u>		I		<u> </u>	I 	-				o/ mn4u/ mn05/ HN7U		-		
		04h 05h 07h	10	1080/59.94i 1080/50i 080/29.97PsF																			
	OSJ:23:[Data]	08h 0Ah 14h	1 10 1	1080/25PsF 080/23.98PsF 1080/29.97p																			
		15h 16h 22h	1080/23	1080/25p 8.98p (over 59.94i/p) 1080/24p																			
		23h	1	1080/23.98p																			<u> </u>
	OSJ:24:[Data]	0n 1h 2h		HDR(2020) HDR(709)											-								
		01h 02h 04h		720/59.94p 720/50p 1080/59.94i											-								
		05h 10h 11h	1	1080/50i 1080/59.94p 1080/50p																			
		14h 15h 16h	1 1080/23	1080/29.97p 1080/25p 8 98p(over 59 94i/p)																			
	OSJ:25:[Data]	17h 18h 19h	2	2160/29.97p 2160/25p 2160/59.94p																			
		1Ah 1Bh 21h	2	2160/50p 2160/23.98p 2160/24p																			
		22h 23h	1	1080/24p 1080/23.98p																			
	OSJ:26:[Data]	0h 1h		SDR HDR(2020)											-								
		2h 0h		HDR(709) Off											-								
	OSJ:27:[Data]	In 2h [Data1]	[Data1]H Pos.	LOW Normal 											-								
		00h _ 64h	0% _ 100%																				
		[Data2] 00h _	[Data2]V Pos. 0% –																				
_	001-00-[0-+-]	64h 0h	100%	Speed Table											-								
╈	OSJ:29.[Data] OSJ:2A:[Data]	1h Oh 1h		Time Off On											-								
	OSJ:2B:[Data]	0h 1h		Off On											-								
	OSJ:2C:[Data]	Oh 1h		Reset Hold											-								
	OSJ:2D:[Data]	0h 1h 0h		Normal Fast Off											-								
	OSJ:2E:[Data]	1h 2h		Crop(1080) Crop(720)																			
		000h _ 780h		0 _ 1920											-								
	USJ:2F:[Data]	 A00h		2560																			
		000h _ 438h		0											-								
	OSJ:30:[Data]	5A0h		- 1440																			
		000h _ 780h		0 - 1920											-								
	OSJ:31:[Data]	 A00h		2560																			
		000h _ 438h		0 _ 1080											-								
	OSJ:32:[Data]	5A0h		1440																			
		000h - 780b		0											-								
	OSJ:33:[Data]	A00h		2560																			
		000h - 438b		0											-								
	OSJ:34:[Data]	- 5A0h		1440																			
╞		[Data1] 00 -		[Data1] Preset001											-						-		
ן	OSJ:35:[Data1]:[Data2]	99 [Data2]	Proset Nor	Preset100 [Data2] e (Fixed 15 Charactors)																			
T		[Data] 00 -	[Data] Preset001 –												-								
+		99	Preset100												-								
Ť		[Data] 00 -	[Data] Preset001 –												-								
		99 [Date]	Preset100												-								
		- 00	Preset001 - Prese+100																				
		- - [Data1]		 [Data1]											-						 		<u> </u>
		00h 01h		Preset 001-009 Preset 010-018 Preset 010-027																			
		03h 04h		Preset 028-036 Preset 037-045 Preset 046-054																			
	OSJ:3C:[Data1]:[Data2]	06h 07h		Preset 055-063 Preset 064-072																			
		001 09h 0Ah		Preset 082-090 Preset 091-099 Proset 100																			
		[Data2] 000000000h		[Data2] 00000000h																			
		FFFFFFFFh		FFFFFFFh																			
	OSJ:3D:[Data]	000h _ 3E7h		0 - 999											-						-		
		-	Any Information (40 Charactors)												-								
1		-		· · · · · · · · · · · · · · · · · · ·	_											1		1	1	1	ı l ⁻	,	1 -

		Rem	arks								
HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/L
											V1.00
											V1. 00
											V1.00
											V1.00
											V1.00
											V1.00
											V1 00
											V1. 00
											V1.00
											V1.00 V1.00
											V1.00
											V1.00 (1step=2pix)
											[Crop(1080)] 0-1920 [Crop(720)] 0-2560
											V1.00 (1step=2pix) [Crop(1080)]
											0-1080 [Crop(720)] 0-1440 V1 00
											(1step=2pix) [Crop(1080)] 0-1920
											[Crop(720)] 0-2560 V1.00 (1step=2pix)
											[Crop (1080)] 0-1080 [Crop (720)]
											0-1440 V1.00 (1step=2pix) [Crop(1080)]
											0-1920 [Crop (720)] 0-2560
											V1.00 (1step=2pix) [Crop(1080)] 0-1080
											[Crop (720)] 0-1440 V1.00
											[Data2] use only follo charactors
											1 - 9 (Decim Number)
											V1.00
											V1.00
											V1.00
											V1.00
											V1_00
											V1. 00
											V1.00
											V1.00



						Da	ata Cont	
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol	Respo	
Operation Lock Status		-	QSJ:40	OSJ:40:[Data1]:[Data2]	[Data1] 0 1 [Data2] xxxxxxxx		Any In	
External Output Menu Setting 1	0SJ:41	:[Data]	QSJ:41	OSJ:41:[Data]	0		Off R-Tall	
External Output	0SJ:42	:[Data]	QSJ:42	OSJ:42:[Data]	2 0 1		G-Tally Off R-Tally	
Power On Position	0SJ:45	:[Data]	QSJ:45	OSJ:45:[Data]	2 0 1 2		None Standb Home	
Power On Preset Number	0SJ:46	:[Data]	QSJ:46	OSJ:46:[Data]	3 00 -		Prese Preset0 –	
12G SDI/Fiber Out	051-15	· [Data]	001:15	00 ·1E·[Doto]	99 Oh 1h		Preset1 SDR HDR (202	
HDR Output Select			650.11		2h 1h		HDR (709	
AWB COLOR TEMPERATURE INC	0SJ:48	:[Data]			Ah 1h		10 1	
AWB COLOR TEMPERATURE DEC	0SJ:49	:[Data]			- Ah [Data1]		- 10 [Data1	
AWB COLOR TEMPERATURE	OSJ∶4A∶[Da [.]	ta1]:[Data2]	QSJ:4A	OSJ:4A:[Data1]:[Data2]	007D0h - 03A98h [Data2] 0h 1h 2h		2000K 15000 [Data2 Valic Under Over	
AWB R Gain	0SJ∶4B	:[Data]	QSJ:4B	OSJ:4B:[Data]	670h - 800h - 990h	-		
AWB B Gain	0SJ:4C	:[Data]	QSJ:4C	OSJ:4C:[Data]	670h 		-400 - 0 - 400 -400	
AWB G Axis	OSJ:4D	:[Data]	QSJ:4D	OSJ:4D:[Data]	- 800h - 990h		- 0 - 400	
Digital Extender	0SJ∶4E	:[Data]	QSJ:4E	OSJ:4E:[Data]	0 1 2		0FF x1.4 x2.0	
Adaptive Matrix	0SJ∶4F	:[Data]	QSJ:4F	OSJ:4F:[Data]	0 1		OFF ON	
Tracking Data Output Serial Out	0SJ:54	:[Data]	QSJ:54	OSJ:54:[Data]	0 1 0			
Tracking Data Output IP Out	0SJ:55	:[Data]	QSJ:55	OSJ:55:[Data]	1		OFF ON	
Color Setting	0SJ:56	:[Data]	QSJ:56	OSJ:56:[Data]	1		V-Log	
12G SDI/Fiber Out V-Log Output Select	0SJ:57	:[Data]	QSJ:57	OSJ:57:[Data]	1		V-709	
3G SDI Out V-Log Output Select	0SJ:58	:[Data]	QSJ:58	OSJ:58:[Data]	1		V-L0g V-709	
MONI Out V-Log Output Select	0SJ:59	:[Data]	QSJ:59	OSJ:59:[Data]	0		V-Log V-709	
HDMI Out V-Log Output Select	0SJ:5A	:[Data]	QSJ:5A	OSJ:5A:[Data]	0 1		V-Log V-709	
Preset Iris	OSJ:5B	:[Data]	QSJ:5B	OSJ:5B:[Data]	0 1	Camera Title (Fixed	OFF ON d 40 Cha	
Camera Title	0SJ:5C	:[Data]	QSJ:5C	OSJ:5C:[Data]				
CROP H/V POSITION Speed Control (YL)	OSJ∶5D∶[Da	ta1]:[Data2]			[Data1] 01 - 50 - 99 [Data2] 01 - 50 - 99	Let Rig Dov UF	[Data1 ft Max. 	
CROP H/V POSITION Speed Control (G)	OSJ∶5E∶[Da	ta1]:[Data2]			[Data1] 01 - 50 - 99 [Data2] 01 - 50 - 99	Let Rig Dov UF	[Data1 ft Max. Stop ht Max. [Data2 wn Max. Stop P Max. S	
CROP H/V POSITION Speed Control (MG)	OSJ∶5F∶[Da	ta1]:[Data2]			[Data1] 01 - 50 - 99 [Data2] 01 - 50 - 99	Let Rig Dov UF	[Data1 ft Max. Stop ht Max. [Data2 wn Max. Stop P Max. S	

		Data Contents														Rema	arks		
n	Data	Control and Response to contol Response to Confirmation	E300/A	E600	E800	E800A	E350	E650	E655	E750	E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130
	[Data1] 0	[Data1] Unlock			I	1	1			I		1	II						
]	l [Data2] xxxxxxxx	Lock [Data2] Any Information (40 Charactors)																	
	0	Off																	
	1 2	R-Tally G-Tally																	
	1 2	R-Tally G-Tally																	
	0 1 2	None Standby Home																	
	3	Preset Preset																	
	99	_ Preset100																	
	0h 1h 2h	SDR HDR (2020) HDR (709)																	
	 1h																		
	Ah	10																	
	1h _ 	1 - 10																	
	[Data1] 007D0h	[Data1] 2000K																	
1	- 03A98h [Date 2]																		
]	[Data2] Oh 1h	Valid Under																	
	2h 670h	0ver -400																	
	_ 800h _	- 0 -																	
	990h	400																	
	670h _ 800h	0																	
	– 990h	400																	
	670h -	-400																	
	- 990h	- 400																	
	0	0FF x1.4																	
	2	x2.0																	
	1	0N																	
	1	OFF ON																	
	0 1	OFF ON																	
	0 1	Norma I V-Log																	
	0 1	V-Log V-709																	
	0 1	V-Log V-709																	
	0 1	V-Log V-709																	
	0	V-Log V-709																	
	0	OFF																	
	۱ 	Camera Title (Fixed 40 Charactors : ASCII CODE)																	
	[Data1] 01	[Data1] Left Max. Speed																	
	- 50 -	Stop -																	
	99 [Data2]	Right Max. Speed																	
	01	Down Max. Speed																	
	- 99	UP Max. Speed																	
	[Data1] 01	[Data1] Left Max. Speed																	
	- 50 -	Stop																	
	99	Right Max. Speed																	
	[Data2] 01 -	Down Max. Speed																	
	50 - 99	Stop - UP Max. Speed																	
	[Data1] 01	[Data1] Left Max_ Speed																	
	- 50	Stop																	
	99	Right Max. Speed																	
	[Data2] 01 –	[Data2] Down Max. Speed -																	
	50 - aa	Stop IIP Max_Speed																	
	55																		

						Rem	arks								
50	E860	HE100	HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	UB300	HR140	UE150/UE155/L
															V1.00
															V1.00
															V1.00
															V1.00
															V1.00
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															V2. 00
															V0.00
															V2.00
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															V2. 17
															V2. 17
															V2. 28
															V2. 28 V2. 28
															V2. 28
															V2. 28
															V2. 28
															V2.28 supports only 0123456789
															ABCDEFGHIJKLMN TUVWXYZ abcdefghijklmn
															Luvwxy2 ! #\$%´()*+,- ./:;<=>?@ []^_`{ }?¥
															V2. 28
															V2. 28
															NO. 00
															V2. 28



						Data Con	ntents											R	marks							
ITEM	Control Command	Reply for Control Command	Confirmation Command	Reply for Confirmation Command	Data	Control and Response to contol	ponse to Confirmation	E300/A E60	0 E800	E800A E3	350 E650	E655	E750 E8	860 HE100	0 HC1500	HC1800	HE870	HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48 /HE58/HE35/HE38/HN3 8/HN40/HN65/HN70	IE63 HE75/HE42/HE68	UB300	HR140	UE150/UE155/
Get CROP H/V POSITION (YL, G, MG)			QSJ:60	OSJ:60:[Data1]:[Data2]:[Data3]:[Data4]: [Data5]:[Data6]	[Data1] 000h - 780h - A00h [Data2] 000h - 438h - 5A0h [Data3] 000h - 780h - 780h - X00h [Data4] 000h - 438h - 5A0h [Data5] 000h - 780h [Data5] 000h - 438h - 5A0h [Data5] 000h - 438h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 780h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data5] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h [Data6] 000h - 5A0h	[Data1] H H 0 1920 [Data2] V H 0 1080 1440 [Data3] H 0 1920 2560 [Data4] V 0 1080 1440 [Data5] H H 0 1080 1920 1920 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 1080 10 1080 1080 1080 1080 1080 1080 10	POS (YL) 20 30 POS (YL) 30 40 POS (G) 20 50 POS (G) 30 40 POS (MG) 20 50 POS (MG) 30																			V2.28 [Crop(1080)] H POSISION : (V POSISION : ([Crop(720)] H POSISION : (V POSISION : (
CROP H/V POSITION Speed Control (YL/G/MG)	OSJ:AO:[Data1]:[:[Data4]:[Dat	[Data2]:[Data3] ta5]:[Data6]			[Data1] 01 - 50 - 99 [Data2] 01 - 50 - 99 [Data3] 01 - 50 - 99 [Data4] 01 - 50 - 99 [Data4] 01 - 50 - 99 [Data5] 01 - 99 [Data5] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data3] 01 - 50 - 99 [Data3] 01 - 50 - 99 [Data3] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99 [Data6] 01 - 50 - 99	[Data1] Left Max. 	(YL) . Speed pp c. Speed (YL) . Speed pp Speed [(G) . Speed] (G) . Speed [(G) . Speed [(G) . Speed [(MG) . Speed [(MG) . Speed pp c. Speed [(MG) . Speed pp Speed [(MG) . Speed [(MG) . Speed																			V2. 35



P/T Control Protocol

This is a program to control Panasonic PAN/TILT system from PC by serial communication.

Method	Half Duplex
Commnunication Speed	9600bps
Data bit	8bit
Stop bit	1bit
Prity	None
Flow contorol	None

(Electrical Specification)

Connecter : Mojdular 8pin Compatible with RS422 4line system(TX+,TX-/send, RX+,RX-/Recieve)

(Process)

(1) PC — Command → CAMERA
 (2) CAMERA — Command → PC (In most P/T commands, there is no reply.)

Normally it is processed as mentioned above, but in case of error, it ends by replying error code(*1) in (2).

(*1)Error code

Item	Error code	Contents
Unsupported	eR1:***[CR]	The Command is not supported by CAMERA.
System busy	eR2:***[CR]	CAMERA can not process the command for running the other processing.
Out of range	eR3:***[CR]	Data is out of range.

******* : Command name (maximum 3 letters.)

ex)1 PAN Stop command

P 5 0 [CR] H'23 H'50 H'35 H'30 H'0D

ITEM	Confirma	ation Responce	Data Control and	Data Contents		F	Remarks PH400			Remarks	PH400						HE40/HE65/HE70/HE48/HE58/HE35/H	E			
Command	Comma	and Command	0 Power OFF	rol Response to Confirmation Power OFF	PH300 PH300A Camera Power & without Camera TX -> Co	PH500 PH600 F ontroller RX line with	PH350 w/RP400 PH360 or w/IF400 or w/IF400 or w/IF400	PH650 PH405 PH3	0 HE100 Camera	PH300PH300APH500PH600PH35a Power &without Camera TX -> Controller RX linewith Ca	50 w/RP400 PH360 or w/IF400 amera TX -> Controller RX line	PH650 PH405	HE100 with Camera T	HE50 HE60 X -> Controller RX line with Camera TX -> Controller RX line	HE120 with Camera TX -> Controller RX line	HE130 with Camera TX -> Controller RX line	38/HN38/HN40/HN65/HN70 with Camera TX -> Controller RX line	 UE70/UN70/UE65/UE63 with Camera TX -> Controller RX line 	HE75/HE42/HE68 with Camera TX -> Controller RX line	HR140 with Camera TX -> Controller RX line	UE150/UE155/UN145 V1.00
Power #O[Data]	#0	p[Data]	fPower OFF1Power ONnPower ON23	Power OFF Power ON(w/ Camera TX) Power ON(wo/ Camera TX) Starting	P/T Control) "Starting" is () supported only Responce Command.				P/T C	ontrol											
Pan Speed Control #P[Data]		pS[Data]	01Left Max. Speed50Stop99Right Max. Speed	d			·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
			01 Down Max. Spee	d				V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Tilt Speed Control #T[Data]		tS[Data]	50 Stop - - 99 UP Max. Speed 01 Wide Max. Speed - - 49 Wide Min. Speed	E			·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Zoom Speed Control #Z[Data]		zS[Data]	50 Stop 51 Tele Min. Speed 99 Tele Max. Speed 555h	d Wide			·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Zoom Position Control #AXZ[Data]	#AXZ	axz[Data]	- FFFh [Response to control]	– Tele									V1.00L01								
Zoom Position Control #AYZ[Data]		axz[Data]	001 Wide 999 Tele [Response to Confirmation] 555h FFFh	Wide - Tele																	
Focus Speed Control #F[Data]		fS[Data]	01Near Max. Speed49Near Min. Speed50Stop51Far Min. Speed99Far Max. Speed	d				\V1.00 \V1.00	V1.00L01				V1.00L01 V1.00	√3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Focus Position Control #AXF[Data]	#AXF	axf[Data]	555h - FFFh [Response to control]	Near - Far			·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00 V1.00L01	V3.00 	V1.00	V1.00 	V1.00	V1.00	V1.00	V1.00	V1.00
Focus Position Control #AYF[Data]		axf[Data]	001 Near 999 Far [Response to Confirmation] 555h - FFFh	Near – Far																	
Roll Speed Control #RO[Data]		rO[Data]	01CCW Max. Speed49CCW Min. Speed50Stop51CW Min. Speed99CW Max. Speed	d			with RL400				with RL400										
Iris Control #I[Data]	#I	iC[Data]	01 - 99	Iris Close – Iris Open				V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Iris Control #AXI[Data]	#AXI	axi[Data]	555h - FFFh [Response to control]	Iris Close - Iris Open			·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00 V1.00L01	V3.00 	V1.00	V1.00 	V1.00	V1.00	V1.00	V1.00	V1.00
Iris Control #AYI[Data]		axi[Data]	001 Iris Close 999 Iris Open [Response to Confirmation] 555h - FFFh	Iris Close – Iris Open																	
Extender/AF Control #D1[Data]	#D1	d1[Data]	0 1	OFF ON			·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
ND Control #D2[Data]	#D2	d2[Data]	0 1	OFF ON			·	V1.00													
Iris Auto/Manual #D3[Data]	#D3	d3[Data]	0 1	Manual Iris Auto Iris			·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Lamp Control #D4[Data]	#D4	d4[Data]	0 1	OFF ON			·	V1.00													
Lamp Alarm #D5		d5[Data]	0 Alarm OFF <u>1</u> Alarm ON 0	OFF	with PS300 or PS300A with PS300 or PS300A	with or P with	n PS300 with PS300 PS300A or PS300A n PS300 with PS300	V1.00	 V1.00L01	with PS300 or PS300A with PS300 or PS300 with PS300 or PS300A with PS300	300 with PS300 00A or PS300A 300 with PS300		 V1.00L01 V1.00	 V3.00		 V1.00	 V1.00	 V1.00	 V1.00	 V1.00	 V1.00
OPTION SW Control #D6[Data] Defroster Control #D7[Data]	#D6	d6[Data] d7[Data]	1 0 OFF 1 ON	ON 	Control Command Only	or P Con Corr Only with CH600	PS300A or PS300A htrol Control mmand Command v Onlv 			Control Command Only or PS300 Control Comman Only with CH600	10A or PS300A Control nd Command Only 		0: Day 1: Night	0: Day 1: Night 		0: Day 1: Night 	0: Day 1: Night 	0: Day 1: Night 	0: Day 1: Night 	0: Day 1: Night V1.00 0 : Auto	0: Day 1: Night
Wiper Control #D8[Data]		d8[Data]	0 OFF 1 ON			with CH600	·			with CH600										V1.00 0 : Off 1 : Fast	
Heater/Fan Control #D9[Data]		d9[Data]	1 ON																	(Heater) 0 : Auto	
Tally Control #DA[Data]	#DA	dA[Data]	0 1	OFF ON Preset 1		 	·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00 V3.00	V1.00	√1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Request Latest Recall Preset No.	#S	s[Data]	99 <u>PH360,PH400,PH405,PH650</u> 00 - 49	– Preset 100 <u>PH360,PH400,PH405,PH650</u> Preset 01 – Preset 50	50																
Save Preset Memory #M[Data]		s[Data]	00 Preset001 - - 99 Preset100 PH360,PH400,PH405,PH650 PH360,PH400,PH405,I 00 Preset 01 - - 49 Preset 50	<u>PH650</u>			·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Recall Preset #R[Data] Memory		s[Data]	00 Preset001 - - 99 Preset100 PH360,PH400,PH405,PH650 PH360,PH400,PH405,I 00 Preset 01 - -	 PH650			· · · · · · · · · · · · · · · · · · ·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Preset completion notification		q[Data]	49 Preset 50 00 Preset001 - - 99 Preset100 PH360.PH400.PH405.PH650 PH360.PH400.PH405.H 00 Preset 01	<u>PH650</u>			·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Preset Mode Setting #RT[Data]	#RT	rt[Data]	- - - - - - - - - - - 49 Preset 50 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th1< th=""> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th1< th=""> <th1< th=""> <th1< th=""> <th1< t<="" td=""><td>Normal Diagonal </td><td></td><td></td><td>·</td><td> V1.00 V1.00 V1.00</td><td> V1.00L01</td><td></td><td></td><td></td><td> V1.00L01 V1.00</td><td> V3.00</td><td> V1.00</td><td> V1.00</td><td> V1.00</td><td> V1.00</td><td> V1.00</td><td> V1.00</td><td> V1.00</td></th1<></th1<></th1<></th1<></th1<>	Normal Diagonal 			·	V1.00 V1.00 V1.00	 V1.00L01				 V1.00L01 V1.00	 V3.00	 V1.00	 V1.00	 V1.00	 V1.00	 V1.00	 V1.00	 V1.00
Limitation Setting #L[Data]		I[Data]	2 Tilt Down 3 Pan Left 4 Pan Right <u>P/T -> Controller</u> 0 Release 1 Set																		
Landing Setting #N[Data]		n[Data]	0 Just Landing 1 Soft Landing				·	V1.00 V1.00	V1.00L01				V1.00L01								
Request Zoom Position	#GZ	gz[Data]	555h - FFFh	Wide – Tele				V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
(Output D/A Data) Request Focus			<i>""</i> 555h	@Power OFF Near –			·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Position (Output D/A Data)	#GF	gf[Data]	FFFh "" [Data1] 555h - -	Far @Power OFF [Data1] Close	@Iris Manual		·	V1.00 V1.00	V1.00L01				V1.00L01 V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Request Iris Position (Output D/A Data)	#GI	gi[Data1][Data2]	FFFN "" [Data2] 0 1	Open @Power OFF [Data2] Manual Iris Auto Iris																	
Tilt Range #AGL[Data] Request Software	#AGL #\/2	aGL[Data]	0	Narrow(190deg) Wide(300deg)			·	V1.00 V1.00	 V1.00L01 @Iris M	lanual			V1.00L01								
Vertion TALLY Enable #TAE[Data]	#TAE	tAE[Data]	0 1	Disable Enable			·	V1.00					V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00		V1.00
Install Positon #INS[Data]	#INS	iNS[Data]	0 1	Desktop Hanging			·	V1.00					V1.00	V3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Speed With Zoom #SWZ[Data]	#SWZ	sWZ[Data]	0 1 [Data1] [Data1]Pan Positio 0000h CCW Limit 	OFF ON on <u>[Data1]</u> Pan Position CCW Limit -	1 step is equivalent to 29.7 seconds		·	V1.00					V1.00 V1.00 supports only Pan	V3.00 V3.00 supports only Pan	V1.00 V1.00 supports only Pan	V1.00 V1.00 supports only Pan	V1.00 V1.00 supports only Pan	V1.00 V1.00 supports only Pan	V1.00 V1.00 supports only Pan	V1.00 V1.00 supports only Pan	V1.00 V1.00 supports only Pan
Pan/Tilt Absolute Position Control #APC[Data1][Data2]	#APC	aPC[Data1][Data2]	8000hCenterFFFFhCW Limit[Data2][Data2]Tilt Position0000hUP Limit8000hCenterFFFFhDOWN Limit	Center – CW Limit on <u>[Data2]</u> Tilt Position UP Limit – Center – DOWN Limit									2D09(CCW Lim Tilt 5555(UP Limit)	it)-D2F5(CW Limit) 2D09(CCW Limit)-D2F5(CW Limit) Tilt -8E38(DOWN Limit) 5555(UP Limit)-8E38(DOWN Limit)	2D09(CCW Limit)–D2F5(CW Limit) Tilt 1C71(UP Limit)–8E38(DOWN Limit)	2D09(CCW Limit)–D2F5(CW Limit) Tilt 1C71(UP Limit)–8E38(DOWN Limit)	2D09(CCW Limit)–D2F5(CW Limit) Tilt 5555(UP Limit)–8E38(DOWN Limit)	2D09(CCW Limit)–D2F5(CW Limit) Tilt 5555(UP Limit)–8E38(DOWN Limit)	2D09(CCW Limit)–D2F5(CW Limit) Tilt 5555(UP Limit)–8E38(DOWN Limit)	2D09(CCW Limit)–D2F5(CW Limit) Tilt 1C71(UP Limit)–8E38(DOWN Limit)	2D09(CCW Limit)–D2F5(CW Limit) Tilt 1C71(UP Limit)–8E38(DOWN Limit)

Control Confirm	nation Responce	Data	Data C	ontents		Remarks PH400				Remarks PH400							c			
Command Comm	nand Command	[Data]	Response to control	Response to Confirmation [Data1]	PH300 PH300A PH500	PH600 PH350 w/RP400 or w/IF400	PH360 PH650 PH405	PH370 HE100	PH300 PH300A PH500 PH6	S00 PH350 w/RP400 PH360 PH650 or w/IF400	PH405 HE100 H	HE50	HE60 /3.00	HE120	HE130	38/HN38/HN40/HN65/HN70	UE70/UN70/UE65/UE63	HE75/HE42/HE68	HR140	UE150/UE155/UN145 V1.00
		1 2 3	Tilt Up Tilt Down Pan Left	Tilt Up Tilt Down Pan Left																
Limitation Control #LC[Data1][Data2] #LC[Data1]] IC[Data1][Data2]	4 [<u>Data2]</u>	Pan Right [Data2]	Pan Right [Data2]																
		0 1	Release Set	Release Set									(0.00			V(1.00	V/1.00	V/1.00	V/1 00	
		[Data1] 01 -	[Data1] Left Max. Speed -								\V1.00	V	33.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Pan Tilt Speed		- 99	Stop - Right Max. Speed																	
Control #PTS[Data1][Data2]	pTS[Data1][Data2]	[Data2] 01	[Data2] Down Max. Speed																	
		- 50 -	- Stop -																	
Wireless Control #WI C[Data1] #WI C	wl C[Data1]	99 0	UP Max. Speed	ble							V1.00	V	/3.00	V1.00	V1.00	V1.00	V1.00	V1.00		V1.00
		[Data1]	[Data1] (Unit No 0)	[Data1]				V1.00 [Data1] Pan Tilt			[[Pan	Data1] Tilt CPU	[Data1] Pan Tilt CPU	[Data1] Servo CPU	[Data1] Servo CPU	supports only #QSV[Data1]	supports only #QSV[Data1]	supports only #QSV[Data1]	[Data1] Servo CPU	supports only #QSV[Data1]
		1 2 3	(Unit No.1) (Unit No.2) (Unit No.2)	(Unit No.1) (Unit No.2) (Unit No.3)							Came	nera CPU era FPGA	Camera CPU Camera FPGA	CameraMain CPU Frontend FPGA	CameraMain CPU COM FPGA	Servo CPU Cam CPU	Servo CPU Cam CPU EDCA	Servo CPU Cam CPU	CameraMain CPU COM FPGA	Servo CPU Camera CPU
		3 4 5	(Unit No.3) (Unit No.4) (Unit No.5)	(Unit No.3) (Unit No.4) (Unit No.5)				UNIT IR Camera			OU re	IT FPGA eserve	OUT FPGA reserve	Backend FPGA Interface CPU	AVIO FPGA Interface CPU	BE CPU reserve	BE CPU reserve	BE CPU reserve	AVIO FPGA Interface CPU	Main/Network CPU AVIO FPGA
		7 8	(Unit No.7) (Unit No.8)	(Unit No.7) (Unit No.8)				Unit CPU Camera			re	eserve eserve	reserve Camera EEPROM	Interface EEPROM Camera EEPROM	Interface EEPROM reserve	reserve Interface EEPROM	reserve Interface EEPROM	reserve Interface EEPROM	Interface EEPROM reserve	Lens CPU Interface EEPROM
SOFTWARE #CSV[Data1]V[Data2].[Data3][Data4] VERSION [Data5][data6] #QSV[Data	qSV[Data1]V[Data2].[Data3][Data 4][Data5][data6]	9 [Data2] 00-99	(Unit No.9)	[Data2] MAJOR VERSION				Unit FPGA			AUCAN AUCAN AUCAN	eserve Data2] R VERSION	[Data2] MAJOR VERSION	[Data2] MAJOR VERSION	[Data2] MAJOR VERSION	reserve reserve [Data2]	reserve reserve [Data2]	reserve reserve [Data2]	[Data2] MAJOR VERSION	BE EEPROM [Data2]
		[Data5] 00-99 [Data4]		MINOR VERSION [Data4]				Prosess Unit CPU			MINOF	R VERSION Data4]	[Data3] MINOR VERSION [Data4]	MINOR VERSION [Data4]	[Data3] MINOR VERSION [Data4]	[Data3] VERSION	[Data3] VERSION	[Data3] VERSION	[Data3] MINOR VERSION [Data4]	[Data3] MINOR VERSION
		E L [Data5]		Release Build [Data5]				Camera Prosess Unit			(Deb (Rele: 	ease Build) Data5]	(Debug Build) (Release Build) [Data5]	(Debug Build) (Release Build) [Data5]	(Debug Build) (Release Build) [Data5]	[Data4] L [Data5]	[Data4] L [Data5]	[Data4] L [Data5]	(Debug Build) (Release Build) [Data5]	[Data4] (Debug Build) (Release Build)
		00-99 [data6] 0		REVISION [data6] NTSC				FPGA reserve [Data2]				[data6] NTSC	(REVISION) [data6] NTSC	(REVISION) [data6] NTSC	(REVISION) [data6] NTSC	00 [data6] NTSC	00 [data6] NTSC	00 [data6] NTSC	(REVISION) [data6] NTSC	[Data5] (REVISION) [data6]
		1 2		PAL Other				MAJOR VERSION V1.00 V1.00L00				PAL Other V3	PAL Other /3.00	PAL V1.00	PAL V1.00	PAL V1.00	PAL	PAL V1.00	PAL	NTSC PAL V1.00
		00h 01h -		Normal (Error1) –							00h : Normal 03h : Motor Driver E 04h : Pan Sensor En	Error 03 Pror 04)0h : Normal)3h : Motor Driver Error)4h : Pan Sensor Error	00h : Normal 03h : Motor Driver Error 04h : Pan Sensor Error	00h : Normal 03h : Motor Driver Error 04h : Pan Sensor Error	supports only 00h Normal(No Error) 03h Motor Driver Error	supports only 00h Normal(No Error) 03h Motor Driver Error	supports only 00h Normal(No Error) 03h Motor Driver Error	00h : Normal 03h : Motor Driver Error 04h : Pan Sensor Error	00h Normal 03h Motor Driver Error 04h Pan Sensor Error
		56h		(Error86)							05h : Tilt Sensor Err 06h : Controller RX (07h : Controller RX I	ror 05 Over run Error 06 Framing Error 07	95h : Tilt Sensor Error 96h : Controller RX Over run Error 97h : Controller RX Framing Error	05h : Tilt Sensor Error 06h : Controller RX Over run Error 07h : Controller RX Framing Error	05h : Tilt Sensor Error 06h : Controller RX Over run Error 07h : Controller RX Framing Error	04h Pan Sensor Error 05h Tilt Sensor Error 06h IF/FPGA UART Over run Error	04h Pan Sensor Error 05h Tilt Sensor Error 06h IF/FPGA UART Over run Error	04h Pan Sensor Error 05h Tilt Sensor Error 06h IF/FPGA UART Over run Error	05h : Tilt Sensor Error 06h : Controller RX Over run Error 07h : Controller RX Framing Error	05h Tilt Sensor Error 06h Controller RX Over run Error 07h Controller RX Framing Error
											08h : Network RX O 09h : Network RX Fr 17h : Controller RX (Over run Error 08 raming Error 09 Command Buffer 17	08h : Network RX Over run Error 09h : Network RX Framing Error 7h : Controller RX Command Buffer Overflow	08h : Network RX Over run Error 09h : Network RX Framing Error 17h : Controller RX Command Buffer Overflo	08h : Network RX Over run Error 09h : Network RX Framing Error w 17h : Controller RX Command Buffer Overflow	07h IF/FPGA UART Framing Error 08h IF/NET UART Over run Error 09h IF/NET UART Framing Error	07h IF/FPGA UART Framing Error 08h IF/NET_UART Over run Error 09h IF/NET_UART Framing Error	07h IF/FPGA UART Framing Error 08h IF/NET UART Over run Error 09h IF/NET UART Framing Error	08h : Network RX Over run Error 09h : Network RX Framing Error 17h : Controller RX Command Buffer Overflow	08h Network RX Over run Error 09h Network RX Framing Error 17h Controller RX Command Buffer
											Overflow 19h : Network RX Co Overflow	command Buffer 21	9h : Network RX Command Buffer Overflow 21h : System Error 2h : Spec, Limit Over	19h : Network RX Command Buffer Overflow 21h : System Error 22h : Spec, Limit Over	19h : Network RX Command Buffer Overflow 21h : System Error 22h : Spec, Limit Over	17h IF/FPGA UART Buffer Overflow 19h IF/NET UART Buffer Overflow 21h System Error(IF/SERVO Error)	17h IF/FPGA UART Buffer Overflow 19h IF/NET UART Buffer Overflow 21h System Frror(IF/SERVO Frror)	17h IF/FPGA UART Buffer Overflow 19h IF/NET UART Buffer Overflow 21h System Error/IF/SERVO Error)	19h : Network RX Command Buffer Overflow 21h : System Error 22h : Spec, Limit Over	Overflow 19h Network RX Command Buffer Overflow
											21h: System Error 22h: Spec Limit Ove 23h: EPGA Config F	er 23 Frror 30	23h : FPGA Config Error 4h : Network communication Error 90h : Lyds Adjustmet NG	23h : FPGA Config Error 24h : Network communication Error 25h : Lens Initialize Error	23h : FPGA Config Error 25h : CAMERA communication Error 26h : CAMERA BX Over run Error	22h PT Limit Over 24h NET Life-monitoring Error 25h BE Life-monitoring Error	22h PT Limit Over 24h NET Life-monitoring Error 25h BE Life-monitoring Error	22h PT Limit Over 24h NET Life-monitoring Error 25h BE Life-monitoring Error	23h : FPGA Config Error 25h : CAMERA communication Error 26h : CAMERA BX Over run Error	21h System Error 22h Spec Limit Over 23h FPGA Config Error
Error Status Info #RER	rER[Data]										24h: Network comm 30h: Lvds_Adjustmet 31h: Bar Signal Che	nunication Error 31	81h:Bar_Signal_Check_NG 82h:H_Sync_Check_NG 82h:HDMLCheck_NG		27h : CAMERA RX Framing Error 28h : CAMERA RX Command Buffer Overflow	26h IF/BE UART Buffer Overflow 27h IF/BE UART Framing Error 28h IE/BE UART Buffer Overflow	26h IF/BE UART Buffer Overflow 27h IF/BE UART Framing Error 28h IE/BE UART Buffer Overflow	26h IF/BE UART Buffer Overflow 27h IF/BE UART Framing Error 28h IE/BE UART Buffer Overflow	27h : CAMERA RX Framing Error 28h : CAMERA RX Command Buffer Overflow 31h : Fan1 Error	24h NET Life-monitoring Error 25h BE Life-monitoring Error 26h Life-Monitoring Error
											3 I h : Bar_Signal_Che		UNBCK_NG בואים הייניים איניים איני			29h CAM Life-monitoring Error	29h CAM Life-monitoring Error	29h CAM Life-monitoring Error	32h: Fan2 Error 33h: High Temp	27h IF/BE UART Butter Overflow 27h IF/BE UART Framing Error 28h IF/BE UART Buffer Overflow
																			30n : Low Temp 39h : Wiper Error 40h : Temp Sensor Error	29n GAM Lite-monitoring Error 31h Fan1 error 32h Fan2 error
																			41h Lens Initialize Error 42h PT. Initialize Error 50h : MR Level Error	33h High Temp 36h Low Temp 40h Temp Sensor Error
																			51h : GYRO Initial Error 52h : MR Offset Error 53h : Origin Offset Error	41h Lens Initialize Error 42h PT. Initialize Error 50h : MR Level Error
																				52h : MR Offset Error 53h : Origin Offset Error 54h:Angle MR Sensor Error
		[Data1] 555h		[Data1]Zoom Position Wide							V1.00	V3	/3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	55h:PT. Gear Error V1.00
		– FFFh [Data2]		– Tele [Data2]Focus Position																
Lens Position #LPI	IPI[Data1][Data2][Data3]	555h _ FFFh		Near _ Far																
		[Data3] 555h –		[Data3]Iris Position Close																
Lens Position #I PC[Data] #I PC		FFFh 0	0	Open							V1.00	Va	/3.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Information Control #Clobata] #Clobata] Smart Picture Flip #SPF[Data] #SPF	sPF[Data]	1 0 1	0 0 Au	n ffto										V1.00	V1.00				V1.00	V1.00
Flip Detect Angle #FDA[Data] #FDA	fDA[Data]	3Ch - 78h	600 - 120	leg deg										V1.00	V1.00				V1.00	V1.00
PinP Position #PD[Data] #PD	nD[Data]	0 1	Righ	t Up Down																
	pp[pam]	2 3 0	Left Left Camer	own : Up a Main																
Control #CMP[Data] #CMP	cMP[Data]	1	Pi	۱P ff																
Guide Line Control #GDL[Data] #GDL IR Remote Controller	gDL[Data]	1 0 1	0 0 0	n 1 2												V1.00	V1.00	V1.00		
ID #RID[Data] #RID	rID[Data]	2 3 0	0 0 640;	3 4 3360												V1.00	V1.00	V1.00		V1.00
Resolution Control #RZL[Data] #RZL	rZL[Data]	1 2 3	320) 1280 1920)	180 ×720 1080												supports only 0(640x360) 1(320x180)	supports only 0(640x360) 1(320x180)	supports only 0(640x360) 1(320x180)		
		[Data1] 0000h	[Data1]Pan Position CCW Limit												V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Position #RPC[Data1][Data2] Control	rPC[Data1][Data2]	_ 8000h _	Center -																	
Image Freeze During Proport #PRF[Data] #PRF	pRF[Data]	FFFFh 0 1	CW Limit	F											V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Preset Speed #PST[Data] #PST	pST[Data]	0	SL SL	D ST											V1.00 supports only 0(SLOW)	V1.00	V1.00	V1.00	V1.00 supports only 0(SLOW)	V1.00 supports only 0(SLOW)
		[Data1] 0000h	[Data1]Pan Position CCW Limit												2(FAST) V1.00	V1.00	V1.00	V1.00	2(FAST) V1.00	2(FAST) V1.00
		- 8000h -	Center																	
		FFFFh	CW Limit																	
P/T Absolute		0000h - 8000b	UP Limit - Center																	
Position #APS[Data1][Data2][Data3][Data4] Control w/Speed	aPS[Data1][Data2][Data3][Data4]	_ FFFFh	– DOWN Limit																	
		[Data3] 00h _	[Data3]Preset Speed 1 -																	
		- 1Dh	30																	
		لData4] 0 2	Loaua4Jrreset Speed Table SLOW FAST																	
		[Data1] 0000h –	[Data1]Pan Position CCW Limit -								-				V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
		8000h _ FFFFh	Center - CW Limit																	
		[Data2] 0000h	[Data2]Tilt Position UP Limit																	
P/T Relative		_ 8000h _	– Center –																	
Position #RPS[Data1][Data2][Data3][Data4] Control w/Speed	rPS[Data1][Data2][Data3][Data4]	FFFFh [Data3]	DOWN Limit																	
		00h	1 - 30																	
		1Dh																		
		1Dh [Data4] n	[Data4]Preset Speed Table SLOW																	
		1Dh [Data4] 0 1 2	[Data4]Preset Speed Table SLOW MID FAST														i de la constante de			
Status Display Lamp #LMP[Data] #LMP	IMP[Data]	1Dh [Data4] 0 1 2 0	[Data4]Preset Speed Table SLOW MID FAST	ble							-				V2.00					V1.00
Status Display Lamp #LMP[Data] #LMP FAN #FAN[Data] #FAN[Data]	IMP[Data]	1Dh [Data4] 0 1 2 0 1 0 1 0 1	[Data4]Preset Speed Table SLOW MID FAST Disa Ena Au Hi	ble							 				V2.00				V1.00 Supports only	V1.00 V1.00
Status Display Lamp #LMP[Data] #LMP FAN #FAN[Data] #FAN	IMP[Data] fAN[Data]	1Dh [Data4] 0 1 2 0 1 0 1 0 1 2 3 3 0	[Data4]Preset Speed Table SLOW MID FAST Disa Ena Au Hi Mi Lo	able ble to gh d w to							 				V2.00				 V1.00 Supports only 0(Auto) 1(On) 	V1.00 V1.00 V1.00
Status Display Lamp#LMP[Data]#LMPFAN#FAN[Data]#FANFAN#FA2#FA2	IMP[Data] fAN[Data] fA2[Data]	1Dh [Data4] 0 1 2 0 1 2 0 1 2 3 3 0 1 2 3 3 0 1 2 3 3	[Data4]Preset Speed Table SLOW MID FAST Disa Ena Au Hi Mi Lo Au Hi	able ble to gh d w to gh d w							 				V2.00	 			 V1.00 Supports only 0(Auto) 1(On) 	V1.00 V1.00 V1.00 V1.00
Status Display Lamp#LMP[Data]#LMPFAN#FAN[Data]#FANFAN#FA2#FA2Wiper#WIP[Data]#WIP	IMP[Data] fAN[Data] fA2[Data] wIP[Data]	1Dh [Data4] 0 1 2 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 1 2 3 0 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	[Data4]Preset Speed Table SLOW MID FAST Disa Ena Au Hi Mi Lo Au Hi Mi Lo Ot Fa	able ble to gh d w to gh d d w to gh d f st							 			 	V2.00				V1.00 Supports only 0(Auto) 1(On) V1.00	V1.00 V1.00 V1.00 V1.00
Status Display Lamp#LMP[Data]#LMPFAN#FAN[Data]#FANFAN#FA2#FA2Wiper#WIP[Data]#WIPWasher#WAS[Data]#WAS	IMP[Data] fAN[Data] fA2[Data] wIP[Data] wAS[Data]	1Dh [Data4] 0 1 2 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 0 1 2 3 0 0 1 2 3 0 0 1 2 3 0 0 1 2 3 0 0 1 2 3 0 0 1 2 3 0 0 1 2 3 0 0 1 2 3 0 0 1 2 0 1 2 0 1 2 0 0 1 1 2 0 0 1 1 2 0 0 1 1 2 0 0 1 1 2 0 0 1 1 2 0 0 1 1 2 0 0 1 1 2 0 0 1 1 2 0 1 1 2 0 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	[Data4]Preset Speed Table SLOW MID FAST Disa Ena Au Hi Mi Lo Au Hi SI Co T Fa SI	able ble to gh d w to gh d d w f f st bw if f					Image: series of the series						V2.00				V1.00 Supports only 0(Auto) 1(On) V1.00 V1.00 V1.00	V1.00 V1.00 V1.00
Status Display Lamp#LMP[Data]#LMPFAN#FAN[Data]#FANFAN#FA2#FA2Wiper#WIP[Data]#WIPWasher#WAS[Data]#WASFan Status1#FS1	IMP[Data] fAN[Data] fA2[Data] wIP[Data] wAS[Data] fS1[Data]	1Dh [Data4] 0 1 2 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 2 1 2 1 2 2 1 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	[Data4]Preset Speed Table SLOW MID FAST Diss Ena Au Hi Mi Lo Au Hi Sl Of Fa Sl Of Of Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content Content C	able ble to gh d w to gh d w f f st bw f f n f n or					Image: series of the serie		- - - - - - - - - - - - - - - - - - - - - - - -				V2.00				V1.00 Supports only 0(Auto) 1(On) V1.00 V1.00 V1.00 V1.00 Supports only 0(Off), 1(On)	V1.00 V1.00 V1.00 V1.00 V1.00 V1.00
Status Display Lamp#LMP[Data]#LMPFAN#FAN[Data]#FANFAN#FA2#FA2Wiper#WIP[Data]#WIPWasher#WAS[Data]#WASFan Status1#FS1Fan Status2#FS2	IMP[Data]fAN[Data]fA2[Data]wIP[Data]wAS[Data]fS1[Data]fS2[Data]	1Dh [Data4] 0 1 2 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 0 1 2 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 1 2 1 2 1 1 2 1 1 2 1 2 1 1 2 1 1 2 1 2 1 1 2 1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	[Data4]Preset Speed Table SLOW MID FAST Diss Ena Au Hi Mi Lo Au Hi Mi Lo Ot Fa SI Ot Ot Ot Fa	ble ble to gh d w to gh d d w f f st bw f f n f n f n f n f n f n f n or					Image: series of the serie		- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -			-	V2.00				V1.00 Supports only 0(Auto) 1(On) V1.00 V1.00 V1.00 V1.00 V1.00 V1.00 V1.00 Supports only 0(Off), 1(On) V1.00 Supports only 0(Off), 1(On) V1.00	V1.00 V1.00 V1.00 V1.00 V1.00 V1.00 V1.00
Status Display Lamp#LMP[Data]#LMPFAN#FAN [Data]#FANFAN2#FA2#FA2Wiper#WIP[Data]#WIPWasher#WAS[Data]#WASFan Status1#FS1Fan Status2#FS2Heater Status#HSDefension 2014#HS	IMP[Data] fAN[Data] fA2[Data] wIP[Data] wAS[Data] fS1[Data] fS2[Data] hS[Data]	1Dh [Data4] 0 1 2 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 0 1 2 3 0 0 1 2 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 0 0 1 0 1 0 0 1 2 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	[Data4]Preset Speed Table SLOW MID FAST Diss Ena Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Mi Lo Au Hi Au Hi Au Hi Au Hi Au Hi Au Hi Au Hi Au Hi Au Hi Au Hi Au Hi Au Hi Au Au Hi Au Au Hi Au Au Hi Au Au Hi Au Au Au Au Au Au Au Au Au Au Au Au Au	ble ble to gh d w v to gh d w f f st bw f f n f n or f o o o o o o o o o o o o o o o o o					Image: series of the series		- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -			-	V2.00		-		V1.00 Supports only 0(Auto) 1(On) /// V1.00 V1.00 V1.00 V1.00 V1.00 V1.00 Supports only 0(Off), 1(On) V1.00 Supports only 0(Off), 1(On) V1.00 V1.00 V1.00 V1.00 V1.00	V1.00 V1.00 V1.00 V1.00 V1.00 V1.00 V1.00 V1.00
Status Display Lamp#LMP[Data]#LMPFAN#FAN[Data]#FANFAN2#FA2#FA2Wiper#WIP[Data]#WIPWasher#WAS[Data]#WASFan Status1#FS1Fan Status2#FS2Heater Status#HSDefroster Status#DSWasher PT Position#WPT	IMP[Data]IMP[Data]fAN [Data]fA2 [Data]wIP [Data]wAS [Data]fS1 [Data]fS2 [Data]hS[Data]wPT	1Dh [Data4] 0 1 2 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 0 1 2 0 0 1 2 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 2 0 0 1 1 2 0 0 1 1 2 0 0 1 1 2 0 0 1 1 0 1 1 2 0 0 1 1 0 1 1 0 1 1 0 1 1 	[Data4]Preset Speed Table SLOW MID FAST Diss Ena Au Hi Mi Lo Au Hi Mi Lo Of Fa SI Of Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of Content Of	able ble ble to gh d w to gh d w f f n f n or if					Image: series of the series		- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -			-	V2.00				V1.00 Supports only 0(Auto) 1(On) V1.00 V1.00	V1.00 V1.00 V1.00 V1.00 V1.00 V1.00 V1.00

ITEM	Control Command	Confirmation Command	Responce Command	Data	Data Contents Control and Response to Confirmation	PH300 PH300A PH500 PH600	Remarks PH400 PH350 w/RP400 PH360 PH650 PH405 PH370	PH300 PH300A PH500	Remarks PH400 PH600 PH650 PH400 PH600 PH350 w/RP400 PH360 PH650 PH400	5 HE100 HE50	HE60	HE120	HE130	HE40/HE65/HE70/HE48/HE58/HE35/H 38/HN38/HN40/HN65/HN70	E UE70/UN70/UE65/UE63	HE75/HE42/HE68	HR140	UE150/UE155/UN145
Get Gain/ColorTemp/ Shutter/ND		#PTG	pTG[Data1][Data2][Data3][Data4][Data5][Data6]	[Data1] 08h - 11h - 1Ah - 32h 80h [Data2] 00000h - 3A98h [Data3] 0h 1h 2h 3h [Data4] 0001h - 2710 h [Data5] 00000h - 186A0h [Data6] 0 1 2 3 0 1 2 3 0 0 1 2 3 0 0 0 0 0 1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0	[Data1] (Gain) OdB 9dB 18dB 42dB AGC ON [Data2] 0K 15000K [Data2] 0K 15000K [Data3] (Shutter Mode) Off Step Syncro ELC [Data4] (Shutter Step) 1/1 1/10000 [Data5] (Shutter Synchro) 0.0 [Hz] 10000.0[Hz] [Data6] (ND) Throgh 1/4 ND 1/64 ND 1/64 ND													V1.00
Get Pan/Tilt/Zoom/F ocus/Iris		#PTV	pTV[Data1][Data2][Data3][Data4][Data5]	[Data1] 0000h - 8000h - FFFFh [Data2] 0000h - 8000h - FFFFh [Data3] 555h - FFFh [Data4] 555h - FFFh [Data5] 555h - FFFh [Data5] 555h - FFFh [Data5] 555h - FFFh [Data5] 555h - FFFh [Data1] 0000h - -	Image:													V1.00
Get Pan/Tilt/Zoom/F ocus/Iris		#PTD	pTD[Data1][Data2][Data3][Data4][Data5]	FFFFh [Data2] 0000h - FFFFh [Data3] 000h - 3E7h [Data3] 000h - 3E7h [Data4] 00h - 63h [Data5] 00h - FEh FFh FFh [Data1] 0 1 [Data2] 0 1	FFFFh [Data2] (Tilt) 0000h - FFFFh [Data3] (Zoom) 0 - 999 [Data4] (Focus) 0 - 999 [Data4] (Focus) 0 - 99 [Data5] (Iris) F0.0 - F25.4 CLOSE [Data1] Red Tally Off Red Tally On [Data2] Wired Red Tally In Off Wired Red Tally In Off		-		- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -									V1.00 [Data4],[Data5],[Data6],[Data8]:unused
Tally Infomation		#TAA	tAA[Data1][Data2][Data3][Data4 Data5][Data6][Data7][Data8][Da a9]	[Data3] 0 1 [Data4] 0 1 [Data5] 0 1 [Data5] 0 1 [Data6] 0 1 [Data7] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 1 [Data8] 0 1 1 [Data7] 0 1 1 [Data6] 0 1 1 [Data6] 0 1 1 [Data6] 0 1 1 [Data6] 0 1 1 [Data6] 0 1 [Data6] 0 1 [Data6] 0 1 [Data7] 0 1 [Data7] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data8] 0 1 [Data9] 0 1 [Data9] 0 1	[Data3] Command Red Tally In Off Command Red Tally In Off Command Red Tally In On [Data4] Green Tally Off Tally Green On [Data5] Wired Green Tally In Off Wired Green Tally In Off Wired Green Tally In Off Command Green Tally In Off Command Green Tally In On [Data7] (Reserved) Tally Off (Reserved) Tally Off (Reserved) Tally In Off Wired (Reserved) Tally In Off Wired (Reserved) Tally In Off Wired (Reserved) Tally In Off Off Command (Reserved) Tally In Off Command (Reserved) Tally In Off													
Preset Speed Control #UPV	/S[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 900h 925h 950h 975h 900h 1225h 11(Time 001h - 063h	[Preset Speed Unit : 0 (SpeedTable)]					V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00	V1.00
Delete Preset #C[Da Memory #C]	ata]		s[Data]	0 - 9 [other P/T] 00 - 49 [HE120/HE130/ HE40/HE65/HE70/UE15 00 - 99	Preset 1 - Preset 10 [other P/T] Preset 01 - Preset 50 [HE120/HE130/ 0] HE40/HE65/HE70/UE150] Preset100 - Preset100		-											
Upτιon #OPT Preset Entry Confirmation	L[hata]	#0P1 #PE[Data1]	pE[Data1][Data2]	1 [Data1] 00h 01h 02h [Data2] 000000000h - FFFFFFFFF (bit0) 0 1 (bit1) 0 1 (39bit) 0 1	On [Data1] Preset 001~040 Preset 041~080 Preset 081~100 [Data2] PRESET No. (Data1*40 + 1) No Entry Entry PRESET No. (Data1*40 + 2) No Entry Entry PRESET No. (Data1*40 + 40) No Entry Entry PRESET No. (Data1*40 + 40) No Entry Entry Entry					V1.00 Supports Only [Data1]0 [Data2] 000000000 - [Data1]2 [Data2] 00000FFFFF (Max 100Preset)	V1.00 Supports Only [Data1]0 [Data2] 0000000000 - [Data1]2 [Data2] 00000FFFFF (Max 100Preset)	V1.00 Supports Only [Data1]0 [Data2] 000000000 - [Data1]2 [Data2] 00000FFFFF (Max 100Preset)	V1.00 Supports Only [Data1]0 [Data2] 0000000000 - [Data1]2 [Data2] 00000FFFFF (Max 100Preset)	V1.00 Supports Only [Data1]0 [Data2] 000000000 - [Data1]2 [Data2] 00000FFFFF (Max 100Preset)	V1.00 Supports Only [Data1]0 [Data2] 000000000 - [Data1]2 [Data2] 00000FFFFF (Max 100Preset)	V1.00 Supports Only [Data1]0 [Data2] 0000000000 - [Data1]2 [Data2] 00000FFFFF (Max 100Preset)	V1.00 Supports Only [Data1]0 [Data2] 0000000000 - [Data1]2 [Data2] 00000FFFFF (Max 100Preset)	V1.00 Supports Only [Data1]0 [Data2] 0000000000 - [Data1]2 [Data2] 00000FFFFF (Max 100Preset)