DLP[®] Projector 8964WUSS/8964WSS **User's Manual (detailed) Operating Guide – Technical**



Supported is gnals for COMPUTER IN

Res lution (H x V) Signal mode		H. frequeng	V. frequeng	Rating
			(H≵	
720 x 400	720 x 400 TEXT		85	VESA
640 x 480	VGA (60H≵	31.5	59.9	VESA
	VGA (72H≵	37.9	72.8	VESA
	VGA (75H≵	37.5	75	VESA
	VGA (85H≵	43.3	85	VESA
800 x 600	SVGA (56H≵	35.2	56.3	VESA
	SVGA (60H≵	37.9	60.3	VESA
	SVGA (72H≵	48.1	72.2	VESA
	SVGA (75H≵	46.9	75	VESA
	SVGA (85H≵	53.7	85.1	VESA
832 x 624	Mac 16" mode	49.7	74.5	
1024 x 768 XGA (60H≵		48.4	60	VESA
	XGA (70H≵	56.5	70.1	VESA
	XGA (75H≵	60	75	VESA
	XGA (85H≵	68.7	85	VESA
1152 x 864	1152 x 864 (75H≵	67.5	75	VESA
1280 x 768 W-XGA (60H≵		47.7	60	VESA
1280 x 800 1280 x 800 (60H≵		49.7	60	VESA
1280 x 1024	1280 x 1024 SXGA (60H≵		60	VESA
	SXGA (75H≵	80	75	VESA
	SXGA (85H≵	91.1 85		VESA
*1) 1366 x 768	WXGA (60H≵	47.7	59.8	VESA
1440 x 900	WXGA+ (60H≵	55.9	59.9	VESA
1600 x 900 WXGA++ (60Hz)		60	60	VESA
1680 x 1050	WSXGA+ (60H≵	65.3	60	VESA
1600 x 1200	UXGA (60H≵	75	60	VESA
1920 x 1080	Full HD (60H≵	67.5	60	VESA
*2) 1920 x 1200	W-UXGA (60H≵	74	60	VESA
	Redue d Blank ng			

*1) Supported ene pt for [WUXGA Model] *2) Only for [WUXGA Model]

(o ntinued on net page)

Supported is gnals for HDMI / HDBae T

Res lution (H x V)	Res lution (H x V) Signal mode		V. frequeng	Rating
		(k l≱	(H≵	
720 x 400	720 x 400 TEXT		85	VESA
640 x 480	VGA (60H≵	31.5	59.9	VESA
	VGA (72H≵	37.9	72.8	VESA
	VGA (75H≵	37.5	75	VESA
	VGA (85H≵	43.3	85	VESA
800 x 600	SVGA (56H≵	35.2	56.3	VESA
	SVGA (60H≵	37.9	60.3	VESA
	SVGA (72H≵	48.1	72.2	VESA
	SVGA (75H≵	46.9	75	VESA
	SVGA (85H≵	53.7	85.1	VESA
832 x 624 Mac 16" mode		49.7	74.5	
1024 x 768 XGA (60H≵		48.4	60	VESA
	XGA (70H≵	56.5	70.1	VESA
	XGA (75H≵	60	75	VESA
	XGA (85H≵	68.7	85	VESA
1152 x 864	1152 x 864 (75H≵	67.5	75	VESA
1280 x 768 W-XGA (60H≵		47.7	60	VESA
1280 x 800 1280 x 800 (60H≵		49.7	60	VESA
1280 x 1024	SXGA (60H≵	64	60	VESA
	SXGA (75H≵	80	75	VESA
	SXGA (85H≵	91.1	85	VESA
1366 x 768	WXGA (60H≵	47.7 59.8		VESA
1440 x 900	WXGA+ (60H≵	55.9	59.9	VESA
1600 x 900	WXGA++ (60H≵	60	60	VESA
1680 x 1050	WSXGA+ (60H≵	65.3	60	VESA
1600 x 1200	UXGA (60H≵	75	60	VESA
*1) 1920 x 1200	W-UXGA (60H≵	74	60	VESA
	Redue d Blank ng			

*1) Only for [WUXGA Model]

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Reo lution (H x V) Signal mode		H. frequeng	V. frequeng	Rating
		(₭ ≵	(H≵	
720(1440) x 480i	480i	15.7	60	CEA
720(1440) x 576i	576i	15.6	50	CEA
720 x 480p	x 480p 480p 31.5		60	CEA
720 x 576p	576p	31.3	50	CEA
1280 x 720p	720p (50H≵	37.5	50	CEA
	720p (60H≵	45	60	CEA
1920 x 1080i	1080i (50H≵	28.1	50	CEA
	1080i (60H≵	33.8	60	CEA
1920 x 1080p 1080p (50H≱		56.3	50	CEA
	1080p (60H≵	67.5	60	CEA

(o ntinued on net page)

Reo lution (H x V)	Signal mode	H. frequeng	V. frequeng	Rating
		(₭ ≵	(H≵	
640 x 480 VGA (60H≵		31.5	59.9	VESA
720(1440) x 480i	480i	15.7	60	CEA
720(1440) x 576i	576i	15.6	50	CEA
720 x 480p	720 x 480p 480p		60	CEA
720 x 576p	576p	31.3	50	CEA
1280 x 720p	720p (50H≵	37.5	50	CEA
	720p (60H≵	45	60	CEA
1920 x 1080i	1080i (50H≵	28.1	50	CEA
	1080i (60H≵	33.8	60	CEA
1920 x 1080p 1080p (25H≵		28.13	25	CEA
	1080p (30H)	33.75	30	CEA

Supported is gnals for MHL

NOTE • Be sure to check jack type, signal level, timing and resolution before connecting this projector to a PC.

• Some PCs may have multiple display screen modes. Use of some of these modes will not be possible with this projector.

• Depending on the input signal, full-size display may not be possible in some cases. Refer to the number of display pixels above.

• The signal will be converted to the projector's panel resolution before being displayed. The best display performance will be achieved if the resolutions of the input signal and projector panel are identical.

• Automatic adjustment may not function correctly with some input signals.

• The image may not be displayed correctly when the input sync signal is a o mposter g c or a g c on G.

• The illustrations in this manual are for illustrative purposes. They may differ slightly from your projector.

Connection to the ports

NOTICE Use the cables with straight plugs, not L-shaped ones, as the input ports of the projector are recessed.

► Only the signal that is input from the **COMPUTER IN** can be output from the MONITOR OUT port.



(A)COMPUTER IN, (B)MONITOR OUT

D-sub 15pin mini shrink jack

<Computer is gnal>

- Video signal: RGB separate, Analog, 0.7Vp-p, 75Ω terminated (positive)
- H/V. sync. signal: TTL level (positive/negative)
- · Composite sync. signal: TTL level

<Component video signal>

- Video signal: Y with composite sync, Analog, 1.0±0.1Vp-p, 75Ω terminated Cb/Pb, Analog, 0.7±0.1Vp-p, 75Ω terminated
 - Cr/Pr, Analog, 0.7±0.1Vp-p 75Ω terminated
- System: 480i@60, 480p@60, 576i@50, 720p@50/60, 1080i@50/60, 1080p@50/60

Pin	Signal	Pin	Signal
1	Video Red, Cr/Pr	9	(No o nnet ion)
2	Video Green, Y	10	Ground
3	Video Blue, Cb/Pb	11	(No o nnet ion)
4	(No o nnet ion)	12	A: SDA (DDC data) B: (No o nnet ion)
5	Ground	13	H.ng. c/Compoisteng.c
6	Ground Red, Ground Cr/Pr	14	V.şa c
7	Ground Green, Ground Y	15	A: SCL (DDC clock) B: (No o nnet ion)
8	Ground Blue, Ground Cb/Pb		



HDMIMMH

HDMI OUT



Connection to the ports (continued)





CHDBaseT

RJ-45 jack



Pin	Signal	Pin	Signal	Pin	Signal
1	HDBa e T0+	4	HDBa e T2+	7	HDBae T3+
2	HDBa e T0-	5	HDBa e T2-	8	HDBa e T3-
3	HDBa e T1+	6	HDBa e T1-		

DHDMI 1 / MHL, EHDMI 2, FHDMI OUT

• Type :Digital audio/video connector

• Audio signal: Linear PCM (Sampling rate; 32/44.1/48 kHz)

|--|

Pin	Signal	Pin	Signal F		Signal
1	T.M.D.S. Data2 + N.C.	8	T.M.D.S. Data0 Shield MHL_Shield	15	SCL CD_PULLUP
2	T.M.D.S. Data2 Shield CD_SENSE	9	T.M.D.S. Data0 - MHL-	16	SDA N.C.
3	T.M.D.S. Data2 - N.C.	10	T.M.D.S. Clok: + N.C.	17	DDC/CEC Ground VBUS CBUS GND
4	T.M.D.S. Data1 + N.C.	11	T.M.D.S. Clock Shield TMDS GND	18	+5V Power VBUS
5	T.M.D.S. Data1 Shield TMDS GND	12	T.M.D.S. Clok: - N.C.	19	Hot Plug Detet CBUS
6	T.M.D.S. Data1 - N.C.	13	CEC N.C.		
7	T.M.D.S. Data0 + MHL+	14	Reserved (N.C. on device) N.C.		





GVIDEO

RCA jack

- Composite video signal, Analog, 1.0±0.1Vp-p, 75Ω terminator
- System: NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL(60Hz)

HAUDIO IN1

Ø3.5 stereo mini jack

• Analog, $47k\Omega$ input impedance

AUDIO IN2 (I)L, (JR

RCA jack x2Analog, 47kΩ input impedance

AUDIO OUT K

Ø3.5 stereo mini jack

• Analog, $1k\Omega$ output impedance

D-a b 9pin plug

* About the details of RS-232C communication, please refer to the next section.



Pin	Signal	Pin	Signal	Pin	Signal
1	(No o nnet ion)	4	(No o nnet ion)	7	RTS
2	RD	5	Ground	8	CTS
3	TD	6	(No o nnet ion)	9	(No o nnet ion)

Connection to the ports (continued)





MLAN

RJ-45 jack

* About the details of network communication, please refer to the **Network Guide**.



Pin	Signal	Pin	Signal	Pin	Signal
1	TX+	4	-	7	-
2	TX-	5	-	8	-
3	RX+	6	RX-		

NWIRELESS

Only for USB wireles adapter.



Pin	Signal
1	+5V
2	- Data
3	+ Data
4	Ground

REMOTE CONTROL PIN, OUT

Ø3.5 stereo mini jack

OUSB-B

USB B type jack

Pin	Signal
1	+5V
2	- Data
3	+ Data
4	Ground



RS-232C Communiaction

When the projector connects to the computer by RS-232C communication, the projector can be controlled with RS-232C commands from the computer. For details of RS-232C commands, refer to RS-232C Communication / Network o mmand table ($\square 18$).

Connection

Turn off the projector and the computer.

- Connect the projector's **CONTROL** port and the computer's RS-232C port
- 2. with a RS-232C cable (cross). Use the cable that fulfills the specification shown in figure.
- Turn the computer on, and after the computer has started up turn the projector
- 3. on.
- Set the COMMUNICATION TYPE to OFF in the COMMUNICATION menu of the
- 4. OPTION SERVICE menu.



Communication settings

1. Protocol

19200bps, 8N1

2. Command format ("h" shows hexadecimal)

Byte Number	0	1	2	3	4	5	6	7	8	9	10	11	12		
Command		Header								Data					
	Header o de		Packet	Da si	ata ze	CRC flag		At ion		Тpрe		Setting o de			
Action	L	Н		L	Н	L	Н	L	Н	L	Н	L	Н		
<set>Change setting to desired value [(cL)(cH)] by [(bL)(bH)].</set>						(aL)	(aH)	01h	00h	(bL)	(bH)	(cL)	(cH)		
<get>Read projector internal setup value [(bL) (bH)] .</get>			03h			(aL)	(aH)	02h	00h	(bL)	(bH)	00h	00h		
<increment> Increment setup value [(bL)(bH)] by 1.</increment>	BEh	EFh		06h	00h	(aL)	(aH)	04h	00h	(bL)	(bH)	00h	00h		
<decrement> Decrement setup value [(bL)(bH)] by 1.</decrement>						(aL)	(aH)	05h	00h	(bL)	(bH)	00h	00h		
<execute> Run a o mmand [(bL)(bH)].</execute>						(aL)	(aH)	06h	00h	(bL)	(bH)	00h	00h		

[Header code] [Packet] [Data size]

Set [BEh, EFh, 03h, 06h, 00h] to byte number 0 to 4.

[CRC flag]

For by e number 5, 6, refer to RS-232C Communication / Network command table (**11**8).

[Action]

Set functional code to byte number 7, 8. <SET> = [01h, 00h], <GET> = [02h, 00h], <INCREMENT> = [04h, 00h] <DECREMENT> = [05h, 00h], <EXECUTE> = [06h, 00h] Refer to the Communication command table (\square above).

[Type] [Setting code]

For byte number 9 to 12, refer to RS-232C Communia tion / Network o mmand table (**11**8).

3. Response code / Error code ("h" shows hexadecimal)

(1) ACK reply: 06h

When the projector receives the Set, Increment, Decrement or Execute command correctly, the projector changes the setting data for the specified item by [Type], and it returns the code.

(2) NAK reply: 15h

When the projector cannot understand the received command, the projector returns the error code.

In such a case, check the sending code and send the same command again.

(3) Error reply: 1Ch + 0000h When the projector cannot execute the received command for any reasons, the projector returns the error code. In such a case, check the sending code and the setting status of the projector.

(4) Data reply: 1Dh + xxxxh

When the projector receives the GET command correctly, the projector returns the response code and 2 bytes of data.

NOTE • For connecting the projector to your devices, please read the manual for each devices, and connect them correctly with suitable cables.

• Operation cannot be guaranteed when the projector receives an undefined o mmand or data.

• Provide an interval of at least 40ms between the response code and any other code.

• The projector outputs test data when the power supply is switched ON, and when the light source is lit. Ignore this data.

• Commands are not accepted during warm-up.

• When the data length is greater than indicated by the data length code, the projector ignore the excess data code. Conversely when the data length is shorter than indicated by the data length code, the projector returns the error code to the computer.

Command Control via the Network

When the projector connects network, the projector can be controlled with RS-232C commands from the computer with web browser.

For details of RS-232C commands, refer to RS-232C Communication / Network command table (**11**8).

NOTE • If data is transferred via wireless and wired LAN at the same time, the projector may not be able to process the data correctly.

Connection

- Turn off the projector and the computer.
- If you use wired LAN, connect the projector's LAN or HDBaseT[™] port to
- 2. the computer's LAN or **HDBaseT** port with a LAN cable. Use the cable that fulfills the specification shown in figure. If you use wireless LAN, insert the USB wireless adapter into the WIRELESS port of the projector.
- Turn the computer on, and after the computer has started up turn the **3.** projector on.



• LAN a ble (CAT-5e or greater)

or

- For HDBae To nnet ion
- CAT-5e or greater
- shielded type (connectors included)
- straight cable
- is ngle a ble

Communication Port

The following two ports are assigned for the command control.

TCP #23 TCP #9715

Configure the following items from a web browser when command control is used.

Po	rt Settings		
	Notwork Control	Port open	Click the [Enable] check box to open [Network Control Port1 (Port: 23)] to us TCP #23. Default e tting is "Enable".
	Port1 (Port: 23)	Authentication	Click the [Enable] check box for the [Authentication] setting when authentication is required. Default e tting is "Di e ble".
	Network Control Port2 (Port: 9715)	Port open	Click the [Enable] check box to open [Network Control Port2 (Port: 9715)] to us TCP #9715. Default e tting is "Enable".
		Authentication	Click the [Enable] check box for the [Authentication] setting when authentication is required. Default e tting is "Enable".

When the authentication setting is enabled, the following settings are required.

Se	curity Settings		
		Authentication Pasv ord	Enter the desired authentication password. Confirm this setting will be the same for
	Network Control	Re-enter Authentication Pasv ord	[Network Control Port1 (Port: 23)] and [Network Control Port2 (Port: 9715)]. Default e tting is blank

Command control settings

[TCP #23]

1. Command format

Same as RS-232C communication, refer to RS-232C Communication command format.

2. Response code / Error code ("h" shows hexadecimal)

Four of the response / error code used for TCP#23 are the same as RS-232C Communication $(1)\sim(4)$. One authentication error reply (5) is added.

- (1) ACK reply : 06h Refer to RS-232C o mmunia tion (19).
- (2) NAK reply : 15h Refer to RS-232C o mmunia tion (19).
- (3) Error reply : 1Ch + 0000h Refer to RS-232C o mmunia tion (
- (4) Data reply : 1Dh + xxxh Refer to RS-232C o mmunia tion (19).
- (5) Authentication error reply : 1Fh + 0400h When authentication error occurred, the projector returns the error code.

[TCP #9715]

1. Command format

The commands some datum are added to the head and the end of the ones of TCP#9715 are u ${\rm e}\,$ d.

Header	Data length	RS-232C o mmand	Check sum	Connet ion ID
0×02	0×0D	13 b t y es	1 bty e	1 bty e

[Header]

02, Fixed

[Data Length]

RS-232C commands byte length (0×0D, Fixed)

[RS-232C commands]

Refer to RS-232C Communia tion o mmand format (110).

[Check Sum]

This is the value to make zero on the addition of the lower 8 bits from the header to the checksum.

[Connection ID]

Random value from 0 to 255 (This value is attached to the reply data).

NOTE • Operation cannot be guaranteed when the projector receives an undefined command or data.

• Provide an interval of at least 40ms between the response code and any other o de.

Commands are not accepted during warm-up.

2. Response code / Error code ("h" shows hexadecimal)

The connection ID is attached for the TCP#23's response / error codes are used. The connection ID is same as the sending command format.

(1) **ACK reply:** 06h + ××h

(××h : connection ID)

- (2) NAK reply: 15h + ××h
- (3) Error reply: 1Ch + 0000h + ××h
- (4) Data reply: 1Dh + xxxxh + ××h
- (5) Authentication error reply: 1Fh + 0400h + ××h
- (6) **Projector busy reply:** 1Fh + ××××h + ××h

When the projector is too busy to receive the command, the projector returns the error code.

In such a case, check the sending code and send the same command again.

Automatic Connection Break

The TCP connection will be automatically disconnected after there is no communication for 30 seconds after being established.

Authentication

The projector does not accept commands without authentication success when authentication is enabled. The projector uses a challenge response type authentication with an MD5 (Message Digest 5) algorithm.

When the projector is connected to a LAN, a random 8 bytes will be returned if authentication is enabled. Bind this received 8 bytes and the authentication password, and digest the data with the MD5 algorithm, and add it in front of the o mmands to e nd.

The following is a sample of authentication process.

Authentication password: **password** (ea mple) Random 8 bytes: **a572f60c** (ea mple)

- 1) Select a projector and receive the random 8 bytes from the projector. → "a572f60č
- 2) Bind the random 8 bytes and the authentication password.
 - → "a572f60p as ord"
- 3) Digest this bound with MD5 algorithm.
 → "e3d97429adffa11be 1f7275813d4bde"
- 4) Add this code in front of the commands and send the data.
 → "e3d97429adffa11be 1f7275813d4bde" + [o mmand].
- 5) When the sent data is correct, the command will be performed and the reply data will be returned. Otherwise, an authentication error will be returned.

NOTE • As for the transmission of the second or subsequent commands, the authentication data can be omitted for the same connection.

Network Bridge Communication

This projector is equipped with NETWORK BRIDGE function. When the projector connects to the computer by wired or wireless LAN communication, an external device connected with this projector by RS-232C communication can be controlled from the computer as a network terminal. For details, see the **7. Network Bridge** function in the **Network Guide**.

NOTE • If data is transferred via wireless and wired LAN at the same time, the projector may not be able to process the data correctly.

Connection

- If you use wired LAN, connect the computer's LAN port and the projector's
- LAN port with a LAN cable. Use the cable that fulfills the specification shown in figure. If you use wireless LAN, insert the USB wireless adapter into the projector's WIRELESS port.
- Connect the projector's CONTROL port and the RS-232C port of the devices
- 2. that you want to control with a RS-232C cable.
- Turn the computer on, and after the computer has started up turn the
- **3.** projector on.
- ▲ Set the COMMUNICATION TYPE to NETWORK BRIDGE in the
- 4. COMMUNICATION menu of the OPTION SERVICE menu.



Communication settings

For communication setting, use the COMMUNICATION menu in the OPTION - SERVICE menu

Item	Condition
BAUD RATE	4800bps / 9600bps / 19200bps / 38400bps
Data length	8 bit (fixed)
PARITY	NONE/ODD/EVEN
Start bit	1 bit (fixed)
Stop bit	1 bit (fixed)
Transmission method	HALF-DUPLEX/FULL-DUPLEX

NOTE • For connecting the projector to your devices, please read the manual for each devices, and connect them correctly with suitable cables.

• Turn off the power and unplug both the projector and other devices before connecting them.

• For details of Transmission method, refer to **7.4 Transmission method** in the **Network Guide**.

RS-232C Communication / Network command table

Namoa	Operation Trage			Header			С	ommand	Data
Indiffes				leaue	:1	CRC	At ion	Тpre	Setting o de
	0.1	Turn off	BE EF	03	06 00	2A D3	01 00	00 60	00 00
	Set	Turn on	BE EF	03	06 00	BA D2	01 00	00 60	01 00
Dowor			BE EF	03	06 00	19 D3	02 00	00 60	00 00
Power	Get		[Ea mple return]						
		Gei	00	00 00		00	02 00		
			[Off]		[Or	<u>] [</u>	Cool dowr	<u>1]</u>	
		COMPUTER IN	BE EF	03	06 00	FE D2	01 00	00 20	00 00
		LAN	BE EF	03	06 00	CE D5	01 00	00 20	0B 00
	Sat	HDMI 1 / MHL	BE EF	03	06 00	0E D2	01 00	00 20	03 00
Input Soure	Sei	HDMI 2	BE EF	03	06 00	6E D6	01 00	00 20	0D 00
		HDBa e T	BE EF	03	06 00	AE DE	01 00	00 20	11 00
		VIDEO	BE EF	03	06 00	6E D3	01 00	00 20	01 00
		Get	BE EF	03	06 00	CD D2	02 00	00 20	00 00
	1		BE EF	03	06 00	D9 D8	02 00	20 60	00 00
			[Ea mple	return]				
Error Status		Cot	00 00 02 0			00	03 00	04 0	0,46 00,5A 00
Enor Status		Gei	[Nor	mal]	[Fan e	rror] [Light	Source e	rror] [T	emp error]
			05	00	07 (00		56 0	0,59 00,5B 00
			[Air flov	v error	[Cold e	error]		[0	ther error]
	Get		BE EF	03	06 00	7C D2	02 00	07 30	00 00
MAGNIFY	Inc ement		BE EF	03	06 00	1A D2	04 00	07 30	00 00
	Dec ement		BE EF	03	06 00	CB D3	05 00	07 30	00 00
	Get		BE EF	03	06 00	C8 D7	02 00	10 30	00 00
		Inc ement	BE EF	03	06 00	AE D7	04 00	10 30	00 00
F US LIUIT IT		Dec ement	BE EF	03	06 00	7F D6	05 00	10 30	00 00
		Get	BE EF	03	06 00	34 D6	02 00	11 30	00 00
MAGNIFY		Inc ement	BE EF	03	06 00	52 D6	04 00	11 30	00 00
POSIONV		Dec ement	BE EF	03	06 00	83 D7	05 00	11 30	00 00
	Cat	NORMAL	BE EF	03	06 00	83 D2	01 00	02 30	00 00
FREEZE	Sei	FREEZE	BE EF	03	06 00	13 D3	01 00	02 30	01 00
		Get	BE EF	03	06 00	B0 D2	02 00	02 30	00 00
		OFF	BE EF	03	06 00	3E 26	01 00	10 23	00 00
	Set	Pb₽	BE EF	03	06 00	AE 27	01 00	10 23	01 00
Pb y ∕PinP		PinP	BE EF	03	06 00	5E 27	01 00	10 23	02 00
		Get	BE EF	03	06 00	0D 26	02 00	10 23	00 00
		SMALL	BE EF	03	06 00	F2 07	01 00	11 23	7F 00
PbvP	Set	MIDDLE	BE EF	03	06 00	02 46	01 00	11 23	80 00
MAIN SIZE		LARGE	BE EF	03	06 00	92 47	01 00	11 23	81 00
		Get	BE EF	03	06 00	F1 27	02 00	11 23	00 00

Namoa	Operation Tx e		L	Joodo	r	CBC	С	ommand	Data
Indifies			ſ	leaue	:1	CRC	At ion	Тpe	Setting o de
		COMPUTER IN	BE EF	03	06 00	86 27	01 00	12 23	00 00
		HDMI 1 / MHL	BE EF	03	06 00	76 27	01 00	12 23	03 00
PbyP	Set	HDMI 2	BE EF	03	06 00	16 23	01 00	12 23	0D 00
RIGHT SOURCE		HDBa e T	BE EF	03	06 00	D6 2B	01 00	12 23	11 00
		VIDEO	BE EF	03	06 00	16 26	01 00	12 23	01 00
		Get	BE EF	03	06 00	B5 27	02 00	12 23	00 00
	0	LEFT	BE EF	03	06 00	7A 26	01 00	13 23	00 00
PbyP	Set	RIGHT	BE EF	03	06 00	EA 27	01 00	13 23	01 00
MAIN AREA		Get	BE EF	03	06 00	49 26	02 00	13 23	00 00
		COMPUTER IN	BE EF	03	06 00	F2 26	01 00	15 23	00 00
		HDMI 1 / MHL	BE EF	03	06 00	02 26	01 00	15 23	03 00
PbvP	Set	HDMI 2	BE EF	03	06 00	62 22	01 00	15 23	0D 00
LEFT SOURCE		HDBa e T	BE EF	03	06 00	A2 2A	01 00	15 23	11 00
		VIDEO	BE EF	03	06 00	62 27	01 00	15 23	01 00
		Get	BE EF	03	06 00	C1 26	02 00	15 23	00 00
		TOP LEFT	BE EF	03	06 00	02 23	01 00	01 23	00 00
		TOP RIGHT	BE EF	03	06 00	92 22	01 00	01 23	01 00
PinP POSITION	Set	BOTTOM LEFT	BE EF	03	06 00	62 22	01 00	01 23	02 00
		BOTTOM RIGHT	BE EF	03	06 00	F2 23	01 00	01 23	03 00
		Get	BE EF	03	06 00	31 23	02 00	01 23	00 00
	0	PRIMARY	BE EF	03	06 00	32 22	01 00	05 23	00 00
PinP	Set	SECONDARY	BE EF	03	06 00	A2 23	01 00	05 23	01 00
MAIN AREA		Get	BE EF	03	06 00	01 22	02 00	05 23	00 00
		COMPUTER IN	BE EF	03	06 00	CE 23	01 00	04 23	00 00
		HDMI 1 / MHL	BE EF	03	06 00	3E 23	01 00	04 23	03 00
PinP PRIMARY	Set	HDMI 2	BE EF	03	06 00	5E 27	01 00	04 23	0D 00
SOURCE		HDBa e T	BE EF	03	06 00	9E 2F	01 00	04 23	11 00
		VIDEO	BE EF	03	06 00	5E 22	01 00	04 23	01 00
		Get	BE EF	03	06 00	FD 23	02 00	04 23	00 00
		COMPUTER IN	BE EF	03	06 00	46 23	01 00	02 23	00 00
		HDMI 1 / MHL	BE EF	03	06 00	B6 23	01 00	02 23	03 00
PinP	Set	HDMI 2	BE EF	03	06 00	D6 27	01 00	02 23	0D 00
SECONDARY		HDBa e T	BE EF	03	06 00	16 2F	01 00	02 23	11 00
SUURCE		VIDEO	BE EF	03	06 00	D6 22	01 00	02 23	01 00
		Get	BE EF	03	06 00	75 23	02 00	02 23	00 00
PbyP SWAP		Ene or te	BE EF	03	06 00	01 27	06 00	16 23	00 00
	Cat	LEFT / PRIMARY	BE EF	03	06 00	4A 27	01 00	17 23	00 00
	Set	RIGHT / SECONDARY	BE EF	03	06 00	DA 26	01 00	17 23	01 00
		Get	BE EF	03	06 00	79 27	02 00	17 23	00 00

Names		Deration Trage	F	leade	r	CRC	С	ommand	Data
Names				icauc	1	0110	At ion	Тpre	Setting o de
		STANDARD	BE EF	03	06 00	83 F5	01 00	BA 30	06 00
		NATURAL	BE EF	03	06 00	23 F6	01 00	BA 30	00 00
		CINEMA	BE EF	03	06 00	B3 F7	01 00	BA 30	01 00
		DYNAMIC	BE EF	03	06 00	E3 F4	01 00	BA 30	04 00
		BOARD(BLACK)	BE EF	03	06 00	E3 EF	01 00	BA 30	20 00
PICTURE	Set	BOARD(GREEN)	BE EF	03	06 00	73 EE	01 00	BA 30	21 00
MODE		WHITEBOARD	BE EF	03	06 00	83 EE	01 00	BA 30	22 00
		DICOM SIM.	BE EF	03	06 00	73 C6	01 00	BA 30	41 00
		USER-1	BE EF	03	06 00	E3 FB	01 00	BA 30	10 00
		USER-2	BE EF	03	06 00	73 FA	01 00	BA 30	11 00
		USER-3	BE EF	03	06 00	83 FA	01 00	BA 30	12 00
		Get	BE EF	03	06 00	10 F6	02 00	BA 30	00 00
		Get	BE EF	03	06 00	89 D2	02 00	03 20	00 00
BRIGHTNESS		Inc ement	BE EF	03	06 00	EF D2	04 00	03 20	00 00
		Dec ement	BE EF	03	06 00	3E D3	05 00	03 20	00 00
BRIGHTNESS Ree t	Ene or te		BE EF	03	06 00	58 D3	06 00	00 70	00 00
		Get	BE EF	03	06 00	FD D3	02 00	04 20	00 00
CONTRAST	Inc ement		BE EF	03	06 00	9B D3	04 00	04 20	00 00
		Dec ement	BE EF	03	06 00	4A D2	05 00	04 20	00 00
CONTRAST Re e t		Ese o te	BE EF	03	06 00	A4 D2	06 00	01 70	00 00
		1 DEFAULT	BE EF	03	06 00	07 E9	01 00	A1 30	20 00
		1 CUSTOM	BE EF	03	06 00	07 FD	01 00	A1 30	10 00
		2 DEFAULT	BE EF	03	06 00	97 E8	01 00	A1 30	21 00
		2 CUSTOM	BE EF	03	06 00	97 FC	01 00	A1 30	11 00
		3 DEFAULT	BE EF	03	06 00	67 E8	01 00	A1 30	22 00
		3 CUSTOM	BE EF	03	06 00	67 FC	01 00	A1 30	12 00
	Set	4 DEFAULT	BE EF	03	06 00	F7 E9	01 00	A1 30	23 00
GAMMA		4 CUSTOM	BE EF	03	06 00	F7 FD	01 00	A1 30	13 00
		5 DEFAULT	BE EF	03	06 00	C7 EB	01 00	A1 30	24 00
		5 CUSTOM	BE EF	03	06 00	C7 FF	01 00	A1 30	14 00
		6 DEFAULT	BE EF	03	06 00	57 EA	01 00	A1 30	25 00
		6 CUSTOM	BE EF	03	06 00	57 FE	01 00	A1 30	15 00
		7 DEFAULT	BE EF	03	06 00	A7 EA	01 00	A1 30	26 00
		7 CUSTOM	BE EF	03	06 00	A7 FE	01 00	A1 30	16 00
		Get	BE EF	03	06 00	F4 F0	02 00	A1 30	00 00

Namoa	Operation Tr. o	L	Joodo	r	CPC	С	ommand	Data
inames	Operation 1p e	peration Ip e Header C		CRC	At ion	Тøе	Setting o de	
	Get	BE EF	03	06 00	08 FE	02 00	90 30	00 00
De r GAIVINA	Inc ement	BE EF	03	06 00	6E FE	04 00	90 30	00 00
FOILT	Dec ement	BE EF	03	06 00	BF FF	05 00	90 30	00 00
Uerr GAMMA Point 1 Reert	Ese o te	BE EF	03	06 00	58 C2	06 00	50 70	00 00
	Get	BE EF	03	06 00	F4 FF	02 00	91 30	00 00
De l'GAIVIIVIA	Inc ement	BE EF	03	06 00	92 FF	04 00	91 30	00 00
F UIII Z	Dec ement	BE EF	03	06 00	43 FE	05 00	91 30	00 00
Us r GAMMA Point 2 Res t	Ene or te	BE EF	03	06 00	A4 C3	06 00	51 70	00 00
	Get	BE EF	03	06 00	B0 FF	02 00	92 30	00 00
US r GAMMA	Inc ement	BE EF	03	06 00	D6 FF	04 00	92 30	00 00
Point 3	Dec ement	BE EF	03	06 00	07 FE	05 00	92 30	00 00
Ue r GAMMA Point 3 Ree t	Ene a te	BE EF	03	06 00	E0 C3	06 00	52 70	00 00
	Get	BE EF	03	06 00	4C FE	02 00	93 30	00 00
US r GAMMA	Inc ement	BE EF	03	06 00	2A FE	04 00	93 30	00 00
Point 4	Dec ement	BE EF	03	06 00	FB FF	05 00	93 30	00 00
Ue r GAMMA Point 4 Ree t	Ene ote	BE EF	03	06 00	1C C2	06 00	53 70	00 00
	Get	BE EF	03	06 00	38 FF	02 00	94 30	00 00
Use r GAMMA	Inc ement	BE EF	03	06 00	5E FF	04 00	94 30	00 00
Point 5	Dec ement	BE EF	03	06 00	8F FE	05 00	94 30	00 00
UerrGAMMA Point 5 Reert	Ene octe	BE EF	03	06 00	68 C3	06 00	54 70	00 00
	Get	BE EF	03	06 00	C4 FE	02 00	95 30	00 00
Ue r GAMMA	Inc ement	BE EF	03	06 00	A2 FE	04 00	95 30	00 00
Point 6	Dec ement	BE EF	03	06 00	73 FF	05 00	95 30	00 00
UerrGAMMA Point 6 Reert	Ene ote	BE EF	03	06 00	94 C2	06 00	55 70	00 00
	Get	BE EF	03	06 00	80 FE	02 00	96 30	00 00
US r GAMMA	Inc ement	BE EF	03	06 00	E6 FE	04 00	96 30	00 00
Point /	Dec ement	BE EF	03	06 00	37 FF	05 00	96 30	00 00
Uer GAMMA Point 7 Reet	Ene ou te	BE EF	03	06 00	D0 C2	06 00	56 70	00 00
	Get	BE EF	03	06 00	7C FF	02 00	97 30	00 00
	Inc ement	BE EF	03	06 00	1A FF	04 00	97 30	00 00
	Dec ement	BE EF	03	06 00	CB FE	05 00	97 30	00 00
UerrGAMMA Point 8 Reert	Ese o te	BE EF	03	06 00	2C C3	06 00	57 70	00 00

Names	0	peration Tra		Hood	or	CRC	С	ommand	Data
Indiffes	0			neau	51	CRC	At ion	Тpre	Setting o de
		1 HIGH	BE EF	03	06 00	0B F5	01 00	B0 30	03 00
		1 CUSTOM (HIGH)	BE EF	03	06 00	CB F8	01 00	B0 30	13 00
		2 MID-1	BE EF	03	06 00	9B F4	01 00	B0 30	02 00
		2 CUSTOM (MID-1)	BE EF	03	06 00	5B F9	01 00	B0 30	12 00
		3 MID-2	BE EF	03	06 00	3B F7	01 00	B0 30	04 00
COLOR TEMP	Set	3 CUSTOM (MID-2)	BE EF	03	06 00	FB FA	01 00	B0 30	14 00
		4 LOW	BE EF	03	06 00	6B F4	01 00	B0 30	01 00
		4 CUSTOM(LOW)	BE EF	03	06 00	AB F9	01 00	B0 30	11 00
		5 Hi-BRIGHT-1	BE EF	03	06 00	3B F2	01 00	B0 30	08 00
		5 CUSTOM	BE EF	03	06 00	FB FF	01 00	B0 30	18 00
		6 Hi-BRIGHT-2	BE EF	03	06 00	AB F3	01 00	B0 30	09 00
		6 CUSTOM	BE EF	03	06 00	6B FE	01 00	B0 30	19 00
		Get	BE EF	03	06 00	C8 F5	02 00	B0 30	00 00
		Get	BE EF	03	06 00	34 F4	02 00	B1 30	00 00
GAIN R		Inc ement	BE EF	03	06 00	52 F4	04 00	B1 30	00 00
0, 1111		Dec ement	BE EF	03	06 00	83 F5	05 00	B1 30	00 00
COLOR TEMP GAIN R Res t	Ene or te		BE EF	03	06 00	10 C6	06 00	46 70	00 00
		Get	BE EF	03	06 00	70 F4	02 00	B2 30	00 00
		Inc ement	BE EF	03	06 00	16 F4	04 00	B2 30	00 00
GAIN G		Dec ement	BE EF	03	06 00	C7 F5	05 00	B2 30	00 00
COLOR TEMP GAIN G Ree t		Ese or te	BE EF	03	06 00	EC C7	06 00	47 70	00 00
		Get	BE EF	03	06 00	8C F5	02 00	B3 30	00 00
		Inc ement	BE EF	03	06 00	EA F5	04 00	B3 30	00 00
GAIN B		Dec ement	BE EF	03	06 00	3B F4	05 00	B3 30	00 00
COLOR TEMP GAIN B Ree t		Ene or te	BE EF	03	06 00	F8 C4	06 00	48 70	00 00
		Get	BE EF	03	06 00	04 F5	02 00	B5 30	00 00
COLOR TEMP		Inc ement	BE EF	03	06 00	62 F5	04 00	B5 30	00 00
OFFSELR		Dec ement	BE EF	03	06 00	B3 F4	05 00	B5 30	00 00
COLOR TEMP OFFSET R Reset		Ene or te	BE EF	03	06 00	40 C5	06 00	4A 70	00 00
		Get	BE EF	03	06 00	40 F5	02 00	B6 30	00 00
COLOR TEMP		Inc ement	BE EF	03	06 00	26 F5	04 00	B6 30	00 00
OFFSEIG		Dec ement	BE EF	03	06 00	F7 F4	05 00	B6 30	00 00
COLOR TEMP OFFSET G Reset		Ene or te	BE EF	03	06 00	BC C4	06 00	4B 70	00 00
		Get	BE EF	03	06 00	BC F4	02 00	B7 30	00 00
COLOR TEMP		Inc ement	BE EF	03	06 00	DA F4	04 00	B7 30	00 00
OFFSET B		Dec ement	BE EF	03	06 00	0B F5	05 00	B7 30	00 00
COLOR TEMP OFFSET B Reset		Ene or te	BE EF	03	06 00	C8 C5	06 00	4C 70	00 00

Names	Operation Tp e	F	leade	r	CRC	С	ommand [Data
						At ion	Tpe s	Setting o de
	Get	BE EF	03	06 00	B5 72	02 00	02 22	00 00
COLOR	Inc ement	BE EF	03	06 00	D3 72	04 00	02 22	00 00
	Dec ement	BE EF	03	06 00	02 73	05 00	02 22	00 00
COLOR Ree t	Exea te	BE EF	03	06 00	80 D0	06 00	0A 70	00 00
	Get	BE EF	03	06 00	49 73	02 00	03 22	00 00
TINT	Inc ement	BE EF	03	06 00	2F 73	04 00	03 22	00 00
	Dec ement	BE EF	03	06 00	FE 72	05 00	03 22	00 00
TINT Ree t	Exea te	BE EF	03	06 00	7C D1	06 00	0B 70	00 00
	Get	BE EF	03	06 00	F1 72	02 00	01 22	00 00
SHARPNESS	Inc ement	BE EF	03	06 00	97 72	04 00	01 22	00 00
	Dec ement	BE EF	03	06 00	46 73	05 00	01 22	00 00
SHARPNESS Re e t	Exea te	BE EF	03	06 00	C4 D0	06 00	09 70	00 00
	Get	BE EF	03	06 00	5D 70	02 00	0C 22	00 00
ACCENTUALIZER	Inc ement	BE EF	03	06 00	3B 70	04 00	0C 22	00 00
	Dec ement	BE EF	03	06 00	EA 71	05 00	0C 22	00 00
ACCENTUALIZER Reset	Exea te	BE EF	03	06 00	C8 DB	06 00	2C 70	00 00
	Get	BE EF	03	06 00	A1 71	02 00	0D 22	00 00
HDCR	Inc ement	BE EF	03	06 00	C7 71	04 00	0D 22	00 00
	Dec ement	BE EF	03	06 00	16 70	05 00	0D 22	00 00
HDCR Ree t	Exea te	BE EF	03	06 00	34 DA	06 00	2D 70	00 00
COLOR	Get	BE EF	03	06 00	0C 63	02 00	00 27	00 00
MANAGEMENT	Inc ement	BE EF	03	06 00	6A 63	04 00	00 27	00 00
HUE R	Dec ement	BE EF	03	06 00	BB 62	05 00	00 27	00 00
COLOR MANAGEMENT HUE R Res t	Exea te	BE EF	03	06 00	98 EB	06 00	D0 70	00 00
COLOR	Get	BE EF	03	06 00	F0 62	02 00	01 27	00 00
MANAGEMENT	Inc ement	BE EF	03	06 00	96 62	04 00	01 27	00 00
HUE Y	Dec ement	BE EF	03	06 00	47 63	05 00	01 27	00 00
COLOR MANAGEMENT HUE Y Reset	Exea te	BE EF	03	06 00	64 EA	06 00	D1 70	00 00
COLOR	Get	BE EF	03	06 00	B4 62	02 00	02 27	00 00
MANAGEMENT	Inc ement	BE EF	03	06 00	D2 62	04 00	02 27	00 00
HUE G	Dec ement	BE EF	03	06 00	03 63	05 00	02 27	00 00
COLOR MANAGEMENT HUE G Reg t	Exea te	BE EF	03	06 00	20 EA	06 00	D2 70	00 00
COLOR	Get	BE EF	03	06 00	48 63	02 00	03 27	00 00
MANAGEMENT	Inc ement	BE EF	03	06 00	2E 63	04 00	03 27	00 00
HUE C	Dec ement	BE EF	03	06 00	FF 62	05 00	03 27	00 00
COLOR MANAGEMENT HUE C Reg t	Exea te	BE EF	03	06 00	DC EB	06 00	D3 70	00 00

Namos	Operation Tr. o	L	Joodo	r	CRC	Command Data			
Names	Operation by e	Г	leaue	1	CRC	At ion	Tpre 🕄	Setting o de	
COLOR	Get	BE EF	03	06 00	3C 62	02 00	04 27	00 00	
MANAGEMENT	Inc ement	BE EF	03	06 00	5A 62	04 00	04 27	00 00	
HUE B	Dec ement	BE EF	03	06 00	8B 63	05 00	04 27	00 00	
COLOR MANAGEMENT HUE B Ree t	Ene a te	BE EF	03	06 00	A8 EA	06 00	D4 70	00 00	
COLOR	Get	BE EF	03	06 00	C0 63	02 00	05 27	00 00	
MANAGEMENT	Inc ement	BE EF	03	06 00	A6 63	04 00	05 27	00 00	
HUE M	Dec ement	BE EF	03	06 00	77 62	05 00	05 27	00 00	
COLOR MANAGEMENT HUE M Ree t	Ese a te	BE EF	03	06 00	54 EB	06 00	D5 70	00 00	
COLOR	Get	BE EF	03	06 00	CC 67	02 00	10 27	00 00	
MANAGEMENT	Inc ement	BE EF	03	06 00	AA 67	04 00	10 27	00 00	
SATURATION R	Dec ement	BE EF	03	06 00	7B 66	05 00	10 27	00 00	
COLOR MANAGEMENT SATURATION R Reset	Ese a te	BE EF	03	06 00	F8 E9	06 00	D8 70	00 00	
COLOR	Get	BE EF	03	06 00	30 66	02 00	11 27	00 00	
MANAGEMENT	Inc ement	BE EF	03	06 00	56 66	04 00	11 27	00 00	
SATURATION Y	Dec ement	BE EF	03	06 00	87 67	05 00	11 27	00 00	
COLOR MANAGEMENT SATURATION Y Reset	Ene a te	BE EF	03	06 00	04 E8	06 00	D9 70	00 00	
COLOR	Get	BE EF	03	06 00	74 66	02 00	12 27	00 00	
MANAGEMENT	Inc ement	BE EF	03	06 00	12 66	04 00	12 27	00 00	
SATURATION G	Dec ement	BE EF	03	06 00	C3 67	05 00	12 27	00 00	
COLOR MANAGEMENT SATURATION G Reset	Ese a te	BE EF	03	06 00	40 E8	06 00	DA 70	00 00	
COLOR	Get	BE EF	03	06 00	88 67	02 00	13 27	00 00	
MANAGEMENT	Inc ement	BE EF	03	06 00	EE 67	04 00	13 27	00 00	
SATURATION C	Dec ement	BE EF	03	06 00	3F 66	05 00	13 27	00 00	
COLOR MANAGEMENT SATURATION C Reset	Ene or te	BE EF	03	06 00	BC E9	06 00	DB 70	00 00	
COLOR	Get	BE EF	03	06 00	FC 66	02 00	14 27	00 00	
MANAGEMENT	Inc ement	BE EF	03	06 00	9A 66	04 00	14 27	00 00	
SATURATION B	Dec ement	BE EF	03	06 00	4B 67	05 00	14 27	00 00	
COLOR MANAGEMENT SATURATION B Reset	Ese a te	BE EF	03	06 00	C8 E8	06 00	DC 70	00 00	
COLOR	Get	BE EF	03	06 00	00 67	02 00	15 27	00 00	
MANAGEMENT	Inc ement	BE EF	03	06 00	66 67	04 00	15 27	00 00	
SATURATION M	Dec ement	BE EF	03	06 00	B7 66	05 00	15 27	00 00	
COLOR MANAGEMENT SATURATION M Reset	Exe a te	BE EF	03	06 00	34 E9	06 00	DD 70	00 00	

Names	Operation Tra		aheal	r	CRC	C	ommand	Data
Names		· ·	leaue	1	OIXO	At ion	Тpre	Setting o de
COLOR	Get	BE EF	03	06 00	CC 68	02 00	20 27	00 00
MANAGEMENT	Inc ement	BE EF	03	06 00	AA 68	04 00	20 27	00 00
LUMINANCE R	Dec ement	BE EF	03	06 00	7B 69	05 00	20 27	00 00
COLOR MANAGEMENT LUMINANCE R Reset	Ene o te	BE EF	03	06 00	98 E4	06 00	E0 70	00 00
COLOR	Get	BE EF	03	06 00	30 69	02 00	21 27	00 00
MANAGEMENT	Inc ement	BE EF	03	06 00	56 69	04 00	21 27	00 00
LUMINANCE Y	Dec ement	BE EF	03	06 00	87 68	05 00	21 27	00 00
COLOR MANAGEMENT LUMINANCE Y Reset	Ene o te	BE EF	03	06 00	64 E5	06 00	E1 70	00 00
COLOR	Get	BE EF	03	06 00	74 69	02 00	22 27	00 00
MANAGEMENT	Inc ement	BE EF	03	06 00	12 69	04 00	22 27	00 00
LUMINANCE G	Dec ement	BE EF	03	06 00	C3 68	05 00	22 27	00 00
COLOR MANAGEMENT LUMINANCE G Reset	Ene a te	BE EF	03	06 00	20 E5	06 00	E2 70	00 00
COLOR	Get	BE EF	03	06 00	88 68	02 00	23 27	00 00
MANAGEMENT	Inc ement	BE EF	03	06 00	EE 68	04 00	23 27	00 00
LUMINANCE C	Dec ement	BE EF	03	06 00	3F 69	05 00	23 27	00 00
COLOR MANAGEMENT LUMINANCE C Reset	Ene a te	BE EF	03	06 00	DC E4	06 00	E3 70	00 00
COLOR	Get	BE EF	03	06 00	FC 69	02 00	24 27	00 00
MANAGEMENT	Inc ement	BE EF	03	06 00	9A 69	04 00	24 27	00 00
LUMINANCE B	Dec ement	BE EF	03	06 00	4B 68	05 00	24 27	00 00
COLOR MANAGEMENT LUMINANCE B Reset	Ene a te	BE EF	03	06 00	A8 E5	06 00	E4 70	00 00
COLOR	Get	BE EF	03	06 00	00 68	02 00	25 27	00 00
MANAGEMENT	Inc ement	BE EF	03	06 00	66 68	04 00	25 27	00 00
LUMINANCE M	Dec ement	BE EF	03	06 00	B7 69	05 00	25 27	00 00
COLOR MANAGEMENT LUMINANCE M Reset	Exe o te	BE EF	03	06 00	54 E4	06 00	E5 70	00 00

Names Operation		poration Tra	L	loodo	r	CRC	С	ommand	Data
INAILIES	C		1	leaue	1	CRC Command D At ion Tp e S 00 0E D7 01 00 14 20 00 9E D6 01 00 14 20 00 9E D6 01 00 14 20 00 6E D6 01 00 14 20 00 FE D7 01 00 14 20 00 FE D7 01 00 15 20 00 FE D7 01 00 15 20 00 62 D7 01 00 15 20 00 62 D7 01 00 15 20 00 92 D7 01 00 15 20 00 5E DD 01 00 08 20 00 5E DD 01 00 08 20<	Setting o de		
		1	BE EF	03	06 00	0E D7	01 00	14 20	00 00
MY MEMORY	Cat	2	BE EF	03	06 00	9E D6	01 00	14 20	01 00
Load	Sei	3	BE EF	03	06 00	6E D6	01 00	14 20	02 00
		4	BE EF	03	06 00	FE D7	01 00	14 20	03 00
		1	BE EF	03	06 00	F2 D6	01 00	15 20	00 00
MY MEMORY	Sot	2	BE EF	03	06 00	62 D7	01 00	15 20	01 00
Save	Sei	3	BE EF	03	06 00	92 D7	01 00	15 20	02 00
		4	BE EF	03	06 00	02 D6	01 00	15 20	03 00
		NORMAL	BE EF	03	06 00	5E DD	01 00	08 20	10 00
		4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00
		16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00
ACDECT	Set	16:10	BE EF	03	06 00	3E D6	01 00	08 20	0A 00
ASPECT		14:9	BE EF	03	06 00	CE D6	01 00	08 20	09 00
		NATIVE	BE EF	03	06 00	5E D7	01 00	08 20	08 00
		ZOOM	BE EF	03	06 00	9E C4	01 00	08 20	30 00
		Get	BE EF	03	06 00	AD D0	02 00	08 20	00 00
		Get	BE EF	03	06 00	91 70	02 00	09 22	00 00
OVER SCAN		Inc ement	BE EF	03	06 00	F7 70	04 00	09 22	00 00
		Dec ement	BE EF	03	06 00	26 71	05 00	09 22	00 00
OVER SCAN Re e t		Ene or te	BE EF	03	06 00	EC D9	06 00	27 70	00 00

Nomes		Desertion Tra		Llaade		0.00	Command Data		Data
Names		peration by e		неаас	er.	CRC	At ion	Тpre	Setting o de
		Get	BE EF	03	06 00	0D 83	02 00	00 21	00 00
V POSITION		Inc ement	BE EF	03	06 00	6B 83	04 00	00 21	00 00
		Dec ement	BE EF	03	06 00	BA 82	05 00	00 21	00 00
V POSITION Reset		Ese o te	BE EF	03	06 00	E0 D2	06 00	02 70	00 00
		Get	BE EF	03	06 00	F1 82	02 00	01 21	00 00
H POSITION		Inc ement	BE EF	03	06 00	97 82	04 00	01 21	00 00
		Dec ement	BE EF	03	06 00	46 83	05 00	01 21	00 00
H POSITION Res t		Ene a te	BE EF	03	06 00	1C D3	06 00	03 70	00 00
		Get	BE EF	03	06 00	49 83	02 00	03 21	00 00
H PHASE		Inc ement	BE EF	03	06 00	2F 83	04 00	03 21	00 00
		Dec ement	BE EF	03	06 00	FE 82	05 00	03 21	00 00
		Get	BE EF	03	06 00	B5 82	02 00	02 21	00 00
H SIZE		Inc ement	BE EF	03	06 00	D3 82	04 00	02 21	00 00
		Dec ement	BE EF	03	06 00	02 83	05 00	02 21	00 00
H SIZE Ree t		Ene or te	BE EF	03	06 00	68 D2	06 00	04 70	00 00
AUTO ADU ST EXECUTE		Ese o te	BE EF	03	06 00	91 D0	06 00	0A 20	00 00
		OFF	BE EF	03	06 00	4A 72	01 00	07 22	00 00
	Set	TV	BE EF	03	06 00	DA 73	01 00	07 22	01 00
PROGRESSIVE		FILM	BE EF	03	06 00	2A 73	01 00	07 22	02 00
		Get	BE EF	03	06 00	79 72	02 00	07 22	00 00
		LOW	BE EF	03	06 00	26 72	01 00	06 22	01 00
	Set	MID	BE EF	03	06 00	D6 72	01 00	06 22	02 00
VIDEOINK		HIGH	BE EF	03	06 00	46 73	01 00	06 22	03 00
		Get	BE EF	03	06 00	85 73	02 00	06 22	00 00
		AUTO	BE EF	03	06 00	0E 72	01 00	04 22	00 00
		RGB	BE EF	03	06 00	9E 73	01 00	04 22	01 00
	Set	SMPTE240	BE EF	03	06 00	6E 73	01 00	04 22	02 00
		REC709	BE EF	03	06 00	FE 72	01 00	04 22	03 00
		REC601	BE EF	03	06 00	CE 70	01 00	04 22	04 00
		Get	BE EF	03	06 00	3D 72	02 00	04 22	00 00
		AUTO	BE EF	03	06 00	A2 70	01 00	11 22	0A 00
		NTSC	BE EF	03	06 00	C2 74	01 00	11 22	04 00
		PAL	BE EF	03	06 00	52 75	01 00	11 22	05 00
C-VIDEO	Set	SECAM	BE EF	03	06 00	52 70	01 00	11 22	09 00
FORMAT		NISC4.43	BE EF	03	06 00	62 77	01 00	11 22	02 00
		M-PAL	BE EF	03	06 00	C2 71	01 00	11 22	08 00
		N-PAL	BE EF	03	06 00	32 74	01 00	11 22	07 00
		Get	BE EF	03	06 00	31 76	02 00	11 22	00 00
		AUTO	BE EF	03	06 00	BA 77	01 00	13 22	00 00
HDMI 1 / MHL	Set	VIDEO	BE EF	03	06 00	2A 76	01 00	13 22	01 00
FORMAT		COMPUTER	BE EF	03	06 00	DA 76	01 00	13 22	02 00
		Get	BE EF	03	06 00	89 //	02 00	13 22	00 00
	0-1	AUTO		03	00 00	52 /5	01 00	10 22	00 00
HDMI 2	Set		BE EF	03	00 00	22 74	01 00	10 22	
FORMAI			BE EF	03	00 00	32 /4 61 75		1D 22	02 00
		Gei	DE EF	03	00 00	01/5	02 00		00 00

Names		Deration Tra	F	loado	r	CRC	Command Data		Data
Indifies			Tieader Cito		At ion	Тpre	Setting o de		
		AUTO	BE EF	03	06 00	7A EA	01 00	D3 20	00 00
HDBae T	Set	VIDEO	BE EF	03	06 00	EA EB	01 00	D3 20	01 00
FORMAT		COMPUTER	BE EF	03	06 00	1A EB	01 00	D3 20	02 00
		Get	BE EF	03	06 00	49 EA	02 00	D3 20	00 00
		AUTO	BE EF	03	06 00	86 D8	01 00	22 20	00 00
HDMI 1 / MHL	Set	NORMAL	BE EF	03	06 00	16 D9	01 00	22 20	01 00
RANGE		ENHANCED	BE EF	03	06 00	E6 D9	01 00	22 20	02 00
		Get	BE EF	03	06 00	B5 D8	02 00	22 20	00 00
		AUTO	BE EF	03	06 00	7A D9	01 00	23 20	00 00
HDMI 2	Set	NORMAL	BE EF	03	06 00	EA D8	01 00	23 20	01 00
RANGE		ENHANCED	BE EF	03	06 00	1A D8	01 00	23 20	02 00
		Get	BE EF	03	06 00	49 D9	02 00	23 20	00 00
		AUTO	BE EF	03	06 00	86 EB	01 00	D2 20	00 00
HDBae T	Set	NORMAL	BE EF	03	06 00	16 EA	01 00	D2 20	01 00
RANGE		ENHANCED	BE EF	03	06 00	E6 EA	01 00	D2 20	02 00
		Get	BE EF	03	06 00	B5 EB	02 00	D2 20	00 00
	Cat	AUTO	BE EF	03	06 00	CE D6	01 00	10 20	03 00
COMPUTER IN	Set	SYNC ON G OFF	BE EF	03	06 00	5E D7	01 00	10 20	02 00
		Get	BE EF	03	06 00	0D D6	02 00	10 20	00 00
	Cat	OFF	BE EF	03	06 00	3B C2	01 00	50 30	00 00
FRAME LOCK -	Set	ON	BE EF	03	06 00	AB C3	01 00	50 30	01 00
		Get	BE EF	03	06 00	08 C2	02 00	50 30	00 00
	Cat	OFF	BE EF	03	06 00	7F C2	01 00	53 30	00 00
FRAME LOCK -	Set	ON	BE EF	03	06 00	EF C3	01 00	53 30	01 00
HDIVIT / IVIHL		Get	BE EF	03	06 00	4C C2	02 00	53 30	00 00
	Sat	OFF	BE EF	03	06 00	97 C0	01 00	5D 30	00 00
FRAME LOCK -	Set	ON	BE EF	03	06 00	07 C1	01 00	5D 30	01 00
		Get	BE EF	03	06 00	A4 C0	02 00	5D 30	00 00
	Cat	OFF	BE EF	03	06 00	C2 EB	01 00	D1 20	00 00
FRAME LOCK -	Set	ON	BE EF	03	06 00	52 EA	01 00	D1 20	01 00
HDBae I		Get	BE EF	03	06 00	F1 EB	02 00	D1 20	00 00
	Set	OFF	BE EF	03	06 00	FE 2D	01 00	30 23	00 00
	Set	ON	BE EF	03	06 00	6E 2C	01 00	30 23	01 00
POWER		Get	BE EF	03	06 00	CD 2D	02 00	30 23	00 00

Names		Deration Top e	F	leade	r	CRC	Command Data		Data
Hamoo				louuo		0.10	At ion	Tpre	Setting o de
		TOP	BE EF	03	06 00	02 D0	01 00	09 20	02 00
PICTURE	Set	MIDDLE	BE EF	03	06 00	62 D1	01 00	09 20	00 00
POSITION V		BOTTOM	BE EF	03	06 00	F2 D0	01 00	09 20	01 00
		Get	BE EF	03	06 00	51 D1	02 00	09 20	00 00
		RIGHT	BE EF	03	06 00	46 D5	01 00	1E 20	01 00
PICTURE	Set	MIDDLE	BE EF	03	06 00	D6 D4	01 00	1E 20	00 00
POSITION H		LEFT	BE EF	03	06 00	B6 D5	01 00	1E 20	02 00
		Get	BE EF	03	06 00	E5 D4	02 00	1E 20	00 00
		KEYSTONE	BE EF	03	06 00	6B 8C	01 00	30 31	01 00
GEOMETRIC	Set	PERFECT FIT	BE EF	03	06 00	9B 8C	01 00	30 31	02 00
MODE		WARPING	BE EF	03	06 00	3B 8F	01 00	30 31	04 00
		Get	BE EF	03	06 00	C8 8D	02 00	30 31	00 00
		Get	BE EF	03	06 00	B9 D3	02 00	07 20	00 00
KEYSTONE V		Inc ement	BE EF	03	06 00	DF D3	04 00	07 20	00 00
		Dec ement	BE EF	03	06 00	0E D2	05 00	07 20	00 00
KEYSTONE V Reset		Ene a te	BE EF	03	06 00	08 D0	06 00	0C 70	00 00
		Get	BE EF	03	06 00	E9 D0	02 00	0B 20	00 00
KEYSTONE H		Inc ement	BE EF	03	06 00	8F D0	04 00	0B 20	00 00
		Dec ement	BE EF	03	06 00	5E D1	05 00	0B 20	00 00
KEYSTONE H Ree t		Ene a te	BE EF	03	06 00	98 D8	06 00	20 70	00 00
		Get	BE EF	03	06 00	31 89	02 00	21 21	00 00
		Inc ement	BE EF	03	06 00	57 89	04 00	21 21	00 00
Leit Iop - H		Dec ement	BE EF	03	06 00	86 88	05 00	21 21	00 00
		Get	BE EF	03	06 00	75 89	02 00	22 21	00 00
PERFECT FIT		Inc ement	BE EF	03	06 00	13 89	04 00	22 21	00 00
Leit lop - v		Dec ement	BE EF	03	06 00	C2 88	05 00	22 21	00 00
		Get	BE EF	03	06 00	89 88	02 00	23 21	00 00
PERFECT FIT		Inc ement	BE EF	03	06 00	EF 88	04 00	23 21	00 00
кідпі тор - п		Dec ement	BE EF	03	06 00	3E 89	05 00	23 21	00 00
		Get	BE EF	03	06 00	FD 89	02 00	24 21	00 00
PERFECT FIL		Inc ement	BE EF	03	06 00	9B 89	04 00	24 21	00 00
rtight top - v		Dec ement	BE EF	03	06 00	4A 88	05 00	24 21	00 00

Namos	Operation True	L	Joodo	r	CBC	С	ommand	Data
Indifies	Operation by e		leaue	:1	CRC	At ion	Тpre	Setting o de
	Get	BE EF	03	06 00	01 88	02 00	25 21	00 00
PERFECT FIT	Inc ement	BE EF	03	06 00	67 88	04 00	25 21	00 00
Lett Bottom - H	Dec ement	BE EF	03	06 00	B6 89	05 00	25 21	00 00
	Get	BE EF	03	06 00	45 88	02 00	26 21	00 00
PERFECT FIT	Inc ement	BE EF	03	06 00	23 88	04 00	26 21	00 00
Leit Bottom - v	Dec ement	BE EF	03	06 00	F2 89	05 00	26 21	00 00
	Get	BE EF	03	06 00	B9 89	02 00	27 21	00 00
PERFECT FIT	Inc ement	BE EF	03	06 00	DF 89	04 00	27 21	00 00
	Dec ement	BE EF	03	06 00	0E 88	05 00	27 21	00 00
	Get	BE EF	03	06 00	AD 8A	02 00	28 21	00 00
PERFECT FIT	Inc ement	BE EF	03	06 00	CB 8A	04 00	28 21	00 00
Right Bollom - V	Dec ement	BE EF	03	06 00	1A 8B	05 00	28 21	00 00
PERFECT FIT All Corners Reset	Ene or te	BE EF	03	06 00	D5 8A	06 00	29 21	00 00
PERFECT FIT	Get	BE EF	03	06 00	31 97	02 00	41 21	00 00
Left Side	Inc ement	BE EF	03	06 00	57 97	04 00	41 21	00 00
Dis ortion	Dec ement	BE EF	03	06 00	86 96	05 00	41 21	00 00
PERFECT FIT	Get	BE EF	03	06 00	75 97	02 00	42 21	00 00
Right Side	Inc ement	BE EF	03	06 00	13 97	04 00	42 21	00 00
Dis ortion	Dec ement	BE EF	03	06 00	C2 96	05 00	42 21	00 00
PERFECT FIT	Get	BE EF	03	06 00	FD 97	02 00	44 21	00 00
Ton Side	Inc ement	BE EF	03	06 00	9B 97	04 00	44 21	00 00
Dis ortion	Dec ement	BE EF	03	06 00	4A 96	05 00	44 21	00 00
PERFECT FIT	Get	BE EF	03	06 00	01 96	02 00	45 21	00 00
Bottom Side	Inc ement	BE EF	03	06 00	67 96	04 00	45 21	00 00
Dis ortion	Dec ement	BE EF	03	06 00	B6 97	05 00	45 21	00 00
PERFECT FIT All Sides Reset	Ese o te	BE EF	03	06 00	3D 96	06 00	47 21	00 00
PERFECT FIT Memory Save-1	Ene a te	BE EF	03	06 00	29 95	06 00	48 21	00 00
PERFECT FIT Memory Save-2	Ene or te	BE EF	03	06 00	D5 94	06 00	49 21	00 00
PERFECT FIT Memory Save-3	Ene or te	BE EF	03	06 00	91 94	06 00	4A 21	00 00
PERFECT FIT Memory Load-1	Ene or te	BE EF	03	06 00	6D 95	06 00	4B 21	00 00
PERFECT FIT Memory Load-2	Exe o te	BE EF	03	06 00	19 94	06 00	4C 21	00 00
PERFECT FIT Memory Load-3	Ene o te	BE EF	03	06 00	E5 95	06 00	4D 21	00 00

Names	0	peration Tra	F	loado	r	CRC	Command	Data	
Indifies				leaue	1	OIXO	At ion	Тpre	Setting o de
EDGE	Sat	OFF	BE EF	03	06 00	6B 94	01 00	4C 31	00 00
BLENDING	001	MANUAL	BE EF	03	06 00	FB 95	01 00	4C 31	01 00
MODE		Get	BE EF	03	06 00	58 94	02 00	4C 31	00 00
EDGE BLENDING REGION Reset		Ese o te	BE EF	03	06 00	8C 96	06 00	40 31	00 00
		Inc ement	BE EF	03	06 00	92 96	04 00	41 31	00 00
		Dec ement	BE EF	03	06 00	43 97	05 00	41 31	00 00
		Get	BE EF	03	06 00	F4 96	02 00	41 31	00 00
		Get	BE EF	03	06 00	68 95	02 00	48 31	00 00
LEFT		Inc ement	BE EF	03	06 00	0E 95	04 00	48 31	00 00
		Dec ement	BE EF	03	06 00	DF 94	05 00	48 31	00 00
		Get	BE EF	03	06 00	94 94	02 00	49 31	00 00
RIGHT		Inc ement	BE EF	03	06 00	F2 94	04 00	49 31	00 00
		Dec ement	BE EF	03	06 00	23 95	05 00	49 31	00 00
		Get	BEEF	03	06 00	D0 94	02 00	4A 31	00 00
TOP		Inc ement	BEEF	03	06 00	B6 94	04 00	4A 31	00 00
		Dec ement	BEEF	03	06 00	67 95	05 00	4A 31	00 00
		Get	BEEF	03	06 00	2C 95	02 00	4B 31	00 00
BOTTOM		Inc ement	BEEF	03	06 00	4A 95	04 00	4B 31	00 00
		Dec ement	BEEF	03	06 00	9B 94	05 00	4B 31	00 00
CROPPING	Set	OFF	BEEF	03	06 00	FB 93	01 00	50 31	00 00
MODE		ON	BEEF	03	06 00	6B 92	01 00	50 31	01 00
		Get	BEEF	03	06 00	C8 93	02.00	50 31	00 00
CROPPING		Get	BEEF	03	00 00	A8 91	02 00	58 31	00 00
SETUP X				03	00 00	0E 91	04 00	50.04	00 00
		Dec ement	BEEF	03	06 00	TF 90	05 00	58 31	00 00
CROPPING		Gel		03	06 00	32.00	02 00	59 31	00 00
SETUP Y		Der ement		03	06 00	32 90 E2 01	04 00	59 31	00 00
		Cot		03	00 00	10.00	03 00	5931	00 00
CROPPING		Gel		03	06 00	76.00	02 00	5A 31	00 00
SETUP W				03	06.00	70 90 A7 01	04 00	5A 31	00.00
		Get		03	00 00	FC 01	03.00	5B 31	00.00
CROPPING				03	06.00	84.01	02 00	5D 31	00.00
SETUP H				03	00 00	5R 00	04 00	5B 31	00.00
		En n to		03	00 00	DD 30	00 00	51 21	00.00
				03	00 00	BU 93	00 00	51.51	00 00
CROPPING Reset		EBS OI TE	BEEF	03	06 00	F4 93	06 00	52 31	00 00
		OFF	BEEF	03	06 00	FB 9C	01 00	60 31	00 00
WARPING	Set	MODE-1	BEEF	03	06 00	6B 9D	01 00	60 31	01 00
MODE		MODE-2	BE EF	03	06 00	9B 9D	01 00	60 31	02 00
		MODE-3	BEEF	03	06 00	0B 9C	01 00	60 31	03 00
		Get	BEEF	03	06 00	C8 9C	02 00	60 31	00 00
DIMMING		Get	BEEF	03	06 00	7C 22	02 00	07 33	00 00
LEVFI		Inc ement	BEEF	03	06 00	1A 22	04 00	07 33	00 00
		Dec ement	BE EF	03	06 00	CB 23	05 00	07 33	00 00

Namos	Operation Tra		Joado	r	CPC	С	Fig. e Setting of 50 27 00 00 50 27 00 00 50 27 00 00 50 27 00 00 50 27 00 00 51 27 00 00 51 27 00 00 51 27 00 00 51 27 00 00 51 27 00 00 51 27 00 00 51 27 00 00 51 27 00 00 51 27 00 00	Data
Indiffes	Operation by e		leaue	1	CRC	At ion	Тøе	Setting o de
WHITE	Get	BE EF	03	06 00	0C 72	02 00	50 27	00 00
BALANCE	Inc ement	BE EF	03	06 00	6A 72	04 00	50 27	00 00
OFFSET R	Dec ement	BE EF	03	06 00	BB 73	05 00	50 27	00 00
WHITE BALANCE OFFSET R Res t	Ene or te	BE EF	03	06 00	38 E2	06 00	F8 70	00 00
WHITE	Get	BE EF	03	06 00	F0 73	02 00	51 27	00 00
BALANCE	Inc ement	BE EF	03	06 00	96 73	04 00	51 27	00 00
OFFSET G	Dec ement	BE EF	03	06 00	47 72	05 00	51 27	00 00
WHITE BALANCE OFFSET G REe t	Eneror te	BE EF	03	06 00	C4 E3	06 00	F9 70	00 00
WHITE	Get	BE EF	03	06 00	B4 73	02 00	52 27	00 00
BALANCE	Inc ement	BE EF	03	06 00	D2 73	04 00	52 27	00 00
OFFSET B	Dec ement	BE EF	03	06 00	03 72	05 00	52 27	00 00
WHITE BALANCE OFFSET B Res t	Enerotte	BE EF	03	06 00	80 E3	06 00	FA 70	00 00
WHITE	Get	BE EF	03	06 00	3C 73	02 00	54 27	00 00
BALANCE GAIN	Inc ement	BE EF	03	06 00	5A 73	04 00	54 27	00 00
R	Dec ement	BE EF	03	06 00	8B 72	05 00	54 27	00 00
WHITE BALANCE GAIN R Reset	Ene a te	BE EF	03	06 00	08 E3	06 00	FC 70	00 00
WHITE	Get	BE EF	03	06 00	C0 72	02 00	55 27	00 00
BALANCE GAIN	Inc ement	BE EF	03	06 00	A6 72	04 00	55 27	00 00
G	Dec ement	BE EF	03	06 00	77 73	05 00	55 27	00 00
WHITE BALANCE GAIN G Reset	Ene a te	BE EF	03	06 00	F4 E2	06 00	FD 70	00 00
WHITE	Get	BE EF	03	06 00	84 72	02 00	56 27	00 00
BALANCE GAIN	Inc ement	BE EF	03	06 00	E2 72	04 00	56 27	00 00
В	Dec ement	BE EF	03	06 00	33 73	05 00	56 27	00 00
WHITE BALANCE GAIN B Reset	Ene o te	BE EF	03	06 00	B0 E2	06 00	FE 70	00 00

Namoa		Departies Tra		Hood	or	CBC	C	ommand	Data
Names				Tieau			At ion	Тpre	Setting o de
		Get	BE EF	03	06 00	CC 76	02 00	40 27	00 00
BLACK LEVEL		Inc ement	BE EF	03	06 00	AA 76	04 00	40 27	00 00
R		Dec ement	BE EF	03	06 00	7B 77	05 00	40 27	00 00
BLACK LEVEL R Ree t		Ene or te	BE EF	03	06 00	68 E1	06 00	F4 70	00 00
		Get	BE EF	03	06 00	30 77	02 00	41 27	00 00
BLACK LEVEL		Inc ement	BE EF	03	06 00	56 77	04 00	41 27	00 00
G		Dec ement	BE EF	03	06 00	87 76	05 00	41 27	00 00
BLACK LEVEL G Ree t		Ene or te	BE EF	03	06 00	94 E0	06 00	F5 70	00 00
		Get	BE EF	03	06 00	74 77	02 00	42 27	00 00
BLACK LEVEL		Inc ement	BE EF	03	06 00	12 77	04 00	42 27	00 00
В		Dec ement	BE EF	03	06 00	C3 76	05 00	42 27	00 00
BLACK LEVEL B Ree t		Ene or te	BE EF	03	06 00	D0 E0	06 00	F6 70	00 00
		Get	BE EF	03	06 00	88 76	02 00	43 27	00 00
BLACK LEVEL		Inc ement	BE EF	03	06 00	EE 76	04 00	43 27	00 00
VV V		Dec ement	BE EF	03	06 00	3F 77	05 00	43 27	00 00
BLACK LEVEL W Res t		Ene or te	BE EF	03	06 00	2C E1	06 00	F7 70	00 00
	Cat	OFF	BE EF	03	06 00	D6 71	01 00	0E 22	00 00
	Set	ON	BE EF	03	06 00	46 70	01 00	0E 22	01 00
OPTIMIZER		Get	BE EF	03	06 00	E5 71	02 00	0E 22	00 00
		HIGH	BE EF	03	06 00	6B 13	01 00	00 33	41 00
LIQUE	Cat	MID	BE EF	03	06 00	FB 12	01 00	00 33	40 00
	Set	LOW	BE EF	03	06 00	3B 23	01 00	00 33	00 00
OUIPUI		CONSTANT	BE EF	03	06 00	3B 1F	01 00	00 33	50 00
		Get	BE EF	03	06 00	08 23	02 00	00 33	00 00
		FRONT / DESKTOP	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
	Sat	REAR / DESKTOP	BE EF	03	06 00	57 D3	01 00	01 30	01 00
INSTALLATION	Sei	REAR / CEILING	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
		FRONT / CEILING	BE EF	03	06 00	37 D2	01 00	01 30	03 00
		Get	BE EF	03	06 00	F4 D2	02 00	01 30	00 00
		QUICK START	BE EF	03	06 00	16 DF	01 00	01 60	10 00
	Set	NORMAL	BE EF	03	06 00	D6 D2	01 00	01 60	00 00
STANDBY	Set	NETWORK(WOL)	BE EF	03	06 00	B6 D3	01 00	01 60	02 00
IVIODE		SAVING	BE EF	03	06 00	46 D3	01 00	01 60	01 00
		Get	BE EF	03	06 00	E5 D2	02 00	01 60	00 00

Namos		Departion Tra	L	Joado	r	CPC	Command Data		Data
Indiffes				leaue	:1	CRC			Setting o de
		Get	BE EF	03	06 00	CD CC	02 00	60 20	00 00
		Inc ement	BE EF	03	06 00	AB CC	04 00	60 20	00 00
COMPUTER IN		Dec ement	BE EF	03	06 00	7A CD	05 00	60 20	00 00
		Get	BE EF	03	06 00	E9 CE	02 00	6B 20	00 00
VOLUME - LAN		Inc ement	BE EF	03	06 00	8F CE	04 00	6B 20	00 00
		Dec ement	BE EF	03	06 00	5E CF	05 00	6B 20	00 00
		Get	BE EF	03	06 00	89 CC	02 00	63 20	00 00
		Inc ement	BE EF	03	06 00	EF CC	04 00	63 20	00 00
		Dec ement	BE EF	03	06 00	3E CD	05 00	63 20	00 00
		Get	BE EF	03	06 00	61 CE	02 00	6D 20	00 00
VOLUME -		Inc ement	BE EF	03	06 00	07 CE	04 00	6D 20	00 00
		Dec ement	BE EF	03	06 00	D6 CF	05 00	6D 20	00 00
		Get	BE EF	03	06 00	C1 EA	02 00	D5 20	00 00
VOLUME -		Inc ement	BE EF	03	06 00	A7 EA	04 00	D5 20	00 00
IDBag I		Dec ement	BE EF	03	06 00	76 EB	05 00	D5 20	00 00
		Get	BE EF	03	06 00	31 CD	02 00	61 20	00 00
		Inc ement	BE EF	03	06 00	57 CD	04 00	61 20	00 00
VIDEO		Dec ement	BE EF	03	06 00	86 CC	05 00	61 20	00 00
		Get	BE EF	03	06 00	D9 CF	02 00	6F 20	00 00
		Inc ement	BE EF	03	06 00	BF CF	04 00	6F 20	00 00
STANDET		Dec ement	BE EF	03	06 00	6E CE	05 00	6F 20	00 00
		Get	BE EF	03	06 00	CD C3	02 00	50 20	00 00
VOLUME - ALL		Inc ement	BE EF	03	06 00	AB C3	04 00	50 20	00 00
		Dec ement	BE EF	03	06 00	7A C2	05 00	50 20	00 00
	Sot	OFF	BE EF	03	06 00	46 D3	01 00	02 20	00 00
MUTE	Sei	ON	BE EF	03	06 00	D6 D2	01 00	02 20	01 00
		Get	BE EF	03	06 00	75 D3	02 00	02 20	00 00
	Sot	OFF	BE EF	03	06 00	FE F0	01 00	A0 20	00 00
AV MUTE	Sei	ON	BE EF	03	06 00	6E F1	01 00	A0 20	01 00
		Get	BE EF	03	06 00	CD F0	02 00	A0 20	00 00
	Sot	OFF	BE EF	03	06 00	6E D5	01 00	1C 20	00 00
SPEAKER	Set	ON	BE EF	03	06 00	FE D4	01 00	1C 20	01 00
		Get	BE EF	03	06 00	5D D5	02 00	1C 20	00 00

Names		Deration Tra	F	Joado	r	CRC	С	ommand	Data
Names			1	leaue	1	CINC	At ion	Тøе	Setting o de
		AUDIO IN1	BE EF	03	06 00	6E DC	01 00	30 20	01 00
AUDIO	Set	AUDIO IN2	BE EF	03	06 00	9E DC	01 00	30 20	02 00
SOURCE -		OFF	BE EF	03	06 00	FE DD	01 00	30 20	00 00
CONFUTERIN		Get	BE EF	03	06 00	CD DD	02 00	30 20	00 00
		AUDIO IN1	BE EF	03	06 00	4A DE	01 00	3B 20	01 00
AUDIO	Sat	AUDIO IN2	BE EF	03	06 00	BA DE	01 00	3B 20	02 00
SOURCE -	Sei	AUDIO LAN	BE EF	03	06 00	8A D3	01 00	3B 20	11 00
LAN		OFF	BE EF	03	06 00	DA DF	01 00	3B 20	00 00
		Get	BE EF	03	06 00	E9 DF	02 00	3B 20	00 00
		AUDIO IN1	BE EF	03	06 00	2A DC	01 00	33 20	01 00
		AUDIO IN2	BE EF	03	06 00	DA DC	01 00	33 20	02 00
SOURCE -	Set	AUDIO HDMI 1 / MHL	BE EF	03	06 00	7A C4	01 00	33 20	20 00
		OFF	BE EF	03	06 00	BA DD	01 00	33 20	00 00
		Get	BE EF	03	06 00	89 DD	02 00	33 20	00 00
		AUDIO IN1	BE EF	03	06 00	C2 DE	01 00	3D 20	01 00
AUDIO	Sat	AUDIO IN2	BE EF	03	06 00	32 DE	01 00	3D 20	02 00
SOURCE -	Sei	AUDIO HDMI 2	BE EF	03	06 00	02 C7	01 00	3D 20	21 00
HDMI 2		OFF	BE EF	03	06 00	52 DF	01 00	3D 20	00 00
		Get	BE EF	03	06 00	61 DF	02 00	3D 20	00 00
		AUDIO IN1	BE EF	03	06 00	9E EA	01 00	D4 20	01 00
AUDIO	Sot	AUDIO IN2	BE EF	03	06 00	6E EA	01 00	D4 20	02 00
SOURCE -	Sei	AUDIO HDBa e T	BE EF	03	06 00	0E F0	01 00	D4 20	24 00
HDBa e T		OFF	BE EF	03	06 00	0E EB	01 00	D4 20	00 00
		Get	BE EF	03	06 00	3D EB	02 00	D4 20	00 00
		AUDIO IN1	BE EF	03	06 00	92 DD	01 00	31 20	01 00
AUDIO	Set	AUDIO IN2	BE EF	03	06 00	62 DD	01 00	31 20	02 00
SOURCE -		OFF	BE EF	03	06 00	02 DC	01 00	31 20	00 00
VIDEO		Get	BE EF	03	06 00	31 DC	02 00	31 20	00 00
	Sot	Dia ble	BE EF	03	06 00	BA F0	01 00	A3 20	00 00
	Sel	Enable	BE EF	03	06 00	2A F1	01 00	A3 20	01 00
		Get	BE EF	03	06 00	89 F0	02 00	A3 20	00 00

Namos		Departion Tra	The Header CRC Co		ommand	Data			
Names			1	leaue	1	CRC	At ion	Тpre	Setting o de
		ENGLISH	BE EF	03	06 00	F7 D3	01 00	05 30	00 00
		FRANÇAIS	BE EF	03	06 00	67 D2	01 00	05 30	01 00
		DEUTSCH	BE EF	03	06 00	97 D2	01 00	05 30	02 00
		ESPAÑOL	BE EF	03	06 00	07 D3	01 00	05 30	03 00
		ITALIANO	BE EF	03	06 00	37 D1	01 00	05 30	04 00
		NORSK	BE EF	03	06 00	A7 D0	01 00	05 30	05 00
		NEDERLANDS	BE EF	03	06 00	57 D0	01 00	05 30	06 00
		PORTUGUÊS	BE EF	03	06 00	C7 D1	01 00	05 30	07 00
		日本語	BE EF	03	06 00	37 D4	01 00	05 30	08 00
		简体中文	BE EF	03	06 00	A7 D5	01 00	05 30	09 00
		繁體中文	BE EF	03	06 00	37 DE	01 00	05 30	10 00
		한글	BE EF	03	06 00	57 D5	01 00	05 30	0A 00
		SVENSKA	BE EF	03	06 00	C7 D4	01 00	05 30	0B 00
		РУССКИЙ	BE EF	03	06 00	F7 D6	01 00	05 30	0C 00
		SUOMI	BE EF	03	06 00	67 D7	01 00	05 30	0D 00
		POLSKI	BE EF	03	06 00	97 D7	01 00	05 30	0E 00
	Set	TÜRKÇE	BE EF	03	06 00	07 D6	01 00	05 30	0F 00
LANGUAGE		DANSK	BE EF	03	06 00	A7 DF	01 00	05 30	11 00
		ČESKY	BE EF	03	06 00	57 DF	01 00	05 30	12 00
		MAGYAR	BE EF	03	06 00	C7 DE	01 00	05 30	13 00
		ROMÂNĂ	BE EF	03	06 00	F7 DC	01 00	05 30	14 00
		SLOVENSKI	BE EF	03	06 00	67 DD	01 00	05 30	15 00
		HRVATSKI	BE EF	03	06 00	97 DD	01 00	05 30	16 00
		ΕΛΛΗΝΙΚΑ	BE EF	03	06 00	07 DC	01 00	05 30	17 00
		LIETUVIŲ	BE EF	03	06 00	F7 D9	01 00	05 30	18 00
		EESTI	BE EF	03	06 00	67 D8	01 00	05 30	19 00
		LATVIEŠU	BE EF	03	06 00	97 D8	01 00	05 30	1A 00
		ไทย	BE EF	03	06 00	07 D9	01 00	05 30	1B 00
		ةىبرعاا ةغالاا	BE EF	03	06 00	37 DB	01 00	05 30	1C 00
		ٛڡڛڔٳڣ	BE EF	03	06 00	A7 DA	01 00	05 30	1D 00
		PORTUGUÊS BRA	BE EF	03	06 00	57 DA	01 00	05 30	1E 00
		BAHASA IND	BE EF	03	06 00	C7 DB	01 00	05 30	1F 00
		TIENG VIET	BE EF	03	06 00	37 CA	01 00	05 30	20 00
		Get	BE EF	03	06 00	C4 D3	02 00	05 30	00 00

Names Operation Tr o		Deration Tra	Header			CPC	Command Data			
Indiffes							At ion	Тpre	Setting o de	
	Get		BE EF	03	06 00	40 D7	02 00	16 30	00 00	
		Inc ement	BE EF	03	06 00	26 D7	04 00	16 30	00 00	
		Dec ement	BE EF	03	06 00	F7 D6	05 00	16 30	00 00	
MENU POSITION V Ree t	Ene orte		BE EF	03	06 00	A8 C7	06 00	44 70	00 00	
MENUL		Get	BE EF	03	06 00	04 D7	02 00	15 30	00 00	
POSITION H		Inc ement	BE EF	03	06 00	62 D7	04 00	15 30	00 00	
		Dec ement	BE EF	03	06 00	B3 D6	05 00	15 30	00 00	
MENU POSITION H Ree t		Ese o te		03	06 00	DC C6	06 00	43 70	00 00	
		MS¢ceen	BE EF	03	06 00	FB CA	01 00	00 30	20 00	
		ORIGINAL	BE EF	03	06 00	FB E2	01 00	00 30	40 00	
BLANK	Set	BLUE	BE EF	03	06 00	CB D3	01 00	00 30	03 00	
DEANIX		WHITE	BE EF	03	06 00	6B D0	01 00	00 30	05 00	
		BLACK	BE EF	03	06 00	9B D0	01 00	00 30	06 00	
		Get	BE EF	03	06 00	08 D3	02 00	00 30	00 00	
	Sat	OFF	BE EF	03	06 00	FB D8	01 00	20 30	00 00	
BLANK On/Off	001	ON	BE EF	03	06 00	6B D9	01 00	20 30	01 00	
		Get	BE EF	03	06 00	C8 D8	02 00	20 30	00 00	
		BLUE	BE EF	03	06 00	67 D1	01 00	0D 30	03 00	
AUTO BLANK	Set	WHITE	BE EF	03	06 00	C7 D2	01 00	0D 30	05 00	
		BLACK	BE EF	03	06 00	37 D2	01 00	0D 30	06 00	
		Get	BE EF	03	06 00	A4 D1	02 00	0D 30	00 00	
		M∳s ceen	BE EF	03	06 00	CB CB	01 00	04 30	20 00	
START UP	Set	ORIGINAL	BE EF	03	06 00	0B D2	01 00	04 30	00 00	
		OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00	
		Get	BE EF	03	06 00	38 D2	02 00	04 30	00 00	
	Set	OFF	BE EF	03	06 00	3B EF	01 00	C0 30	00 00	
MSs ceen Loks		ON	BE EF	03	06 00	AB EE	01 00	C0 30	01 00	
		Get	BE EF	03	06 00	08 EF	02 00	C0 30	00 00	
		SILENT	BE EF	03	06 00	8F D6	01 00	17 30	00 00	
OSD MESSAGE	Set	NORMAL	BE EF	03	06 00	1F D7	01 00	17 30	01 00	
		INHIBIT	BE EF	03	06 00	EF D7	01 00	17 30	02 00	
		Get	BE EF	03	06 00	BC D6	02 00	17 30	00 00	
		TEST PATTERN	BE EF	03	06 00	43 D9	01 00	22 30	00 00	
		DOT-LINE 1	BE EF	03	06 00	D3 D8	01 00	22 30	01 00	
		DOT-LINE 2	BE EF	03	06 00	23 D8	01 00	22 30	02 00	
		DOT-LINE 3	BE EF	03	06 00	B3 D9	01 00	22 30	03 00	
TEMPLATE	Set	DOT-LINE 4	BE EF	03	06 00	83 DB	01 00	22 30	04 00	
		CIRCLE 1	BE EF	03	06 00	13 DA	01 00	22 30	05 00	
		CIRCLE 2	BE EF	03	06 00	E3 DA	01 00	22 30	06 00	
		MAP 1	BE EF	03	06 00	83 D4	01 00	22 30	10 00	
				03	06 00			22 30	20.00	
		STACK	BE EF	03	00 00	83 CU		22 30	20 00	
		Get	BE FF	03	00 00	10 D9	02 00	22 30	00 00	

Namoo	Operation Tp e		Llaadar			CDC	Command Data		
inames			Г	reade	:1	CRC	At ion	Тpe	Setting o de
TEMPLATE	Set	OFF	BE EF	03	06 00	BF D8	01 00	23 30	00 00
	Set	ON	BE EF	03	06 00	2F D9	01 00	23 30	01 00
UN/UN		Get	BE EF	03	06 00	8C D8	02 00	23 30	00 00
		OFF	BE EF	03	06 00	FA 62	01 00	00 37	00 00
	Set	ON	BE EF	03	06 00	6A 63	01 00	00 37	01 00
C.C DISPLAY		AUTO	BE EF	03	06 00	9A 63	01 00	00 37	02 00
		Get	BE EF	03	06 00	C9 62	02 00	00 37	00 00
	Sat	CAPTIONS	BE EF	03	06 00	06 63	01 00	01 37	00 00
C.C MODE	Set	TEXT	BE EF	03	06 00	96 62	01 00	01 37	01 00
		Get	BE EF	03	06 00	35 63	02 00	01 37	00 00
		1	BE EF	03	06 00	D2 62	01 00	02 37	01 00
	0.1	2	BE EF	03	06 00	22 62	01 00	02 37	02 00
C.C CHANNEL	Set	3	BE EF	03	06 00	B2 63	01 00	02 37	03 00
	l Ì	4	BE EF	03	06 00	82 61	01 00	02 37	04 00
		Get	BE EF	03	06 00	71 63	02 00	02 37	00 00
		NORMAL	BE EF	03	06 00	FE 78	01 00	20 22	00 00
SOURCE SKIP -	Set	SKIP	BE EF	03	06 00	6E 79	01 00	20 22	01 00
COMPUTER IN		Get	BE EF	03	06 00	CD 78	02 00	20 22	00 00
	0.1	NORMAL	BE EF	03	06 00	DA 7A	01 00	2B 22	00 00
SOURCE SKIP -	Set	SKIP	BE EF	03	06 00	4A 7B	01 00	2B 22	01 00
LAN		Get	BE EF	03	06 00	E9 7A	02 00	2B 22	00 00
		NORMAL	BE EF	03	06 00	BA 78	01 00	23 22	00 00
SOURCE SKIP -	Set	SKIP	BE EF	03	06 00	2A 79	01 00	23 22	01 00
HDMI 1 / MHL		Get	BE EF	03	06 00	89 78	02 00	23 22	00 00
	0.4	NORMAL	BE EF	03	06 00	52 7A	01 00	2D 22	00 00
SOURCE SKIP -	Set	SKIP	BE EF	03	06 00	C2 7B	01 00	2D 22	01 00
HDIVII 2		Get	BE EF	03	06 00	61 7A	02 00	2D 22	00 00
	0.4	NORMAL	BE EF	03	06 00	B6 EA	01 00	D6 20	00 00
SOURCE SKIP -	Set	SKIP	BE EF	03	06 00	26 EB	01 00	D6 20	01 00
HDBasel		Get	BE EF	03	06 00	85 EA	02 00	D6 20	00 00
	0.1	NORMAL	BE EF	03	06 00	02 79	01 00	21 22	00 00
SOURCE SKIP -	Set	SKIP	BE EF	03	06 00	92 78	01 00	21 22	01 00
VIDEO		Get	BE EF	03	06 00	31 79	02 00	21 22	00 00
		OFF	BE EF	03	06 00	B6 D6	01 00	16 20	00 00
AUTO SEARCH	Set	ON	BE EF	03	06 00	26 D7	01 00	16 20	01 00
		Get	BE EF	03	06 00	85 D6	02 00	16 20	00 00
DIDEAT	0.4	OFF	BE EF	03	06 00	3B 89	01 00	20 31	00 00
DIRECT	Set	ON	BE EF	03	06 00	AB 88	01 00	20 31	01 00
POWERON		Get	BE EF	03	06 00	08 89	02 00	20 31	00 00
		Get	BE EF	03	06 00	08 86	02 00	10 31	00 00
AUTO POWER		Inc ement	BE EF	03	06 00	6E 86	04 00	10 31	00 00
OFF	Dec ement		BE EF	03	06 00	BF 87	05 00	10 31	00 00

Names Operation Trace		F	Joado	r	CRC	Command Data			
Names			1	leaue	1		At ion	Тpre	Setting o de
LIGHT SOURCE TIME Lower Bytes		Get		03	06 00	C2 FF	02 00	90 10	00 00
LIGHT SOURCE TIME Higher Bytes		Get	BE EF	03	06 00	2A FD	02 00	9E 10	00 00
		MY IMAGE	BE EF	03	06 00	5A 3D	01 00	00 36	16 00
		MESSENGER	BE EF	03	06 00	AA 29	01 00	00 36	25 00
		INFORMATION	BE EF	03	06 00	FA 3E	01 00	00 36	10 00
		MY MEMORY	BE EF	03	06 00	9A 3F	01 00	00 36	12 00
		PICTURE MODE	BE EF	03	06 00	0A 3E	01 00	00 36	13 00
		TEMPLATE	BE EF	03	06 00	CA 39	01 00	00 36	1B 00
	Cat	MUTE	BE EF	03	06 00	FA 20	01 00	00 36	38 00
MY BUTTON-1	Sei	Pb₽ /PinP SWAP	BE EF	03	06 00	5A 38	01 00	00 36	1A 00
		PinP POSITION	BE EF	03	06 00	3A 22	01 00	00 36	3C 00
		BLANK	BE EF	03	06 00	FA 02	01 00	00 36	40 00
		RESOLUTION	BE EF	03	06 00	9A 3A	01 00	00 36	1E 00
		LIGHT OUTPUT	BE EF	03	06 00	0A 25	01 00	00 36	37 00
		ACCENTUALIZER	BE EF	03	06 00	9A 21	01 00	00 36	3A 00
		HDCR	BE EF	03	06 00	5A 23	01 00	00 36	3E 00
		Get	BE EF	03	06 00	09 33	02 00	00 36	00 00
		MY IMAGE	BE EF	03	06 00	A6 3C	01 00	01 36	16 00
		MESSENGER	BE EF	03	06 00	56 28	01 00	01 36	25 00
		INFORMATION	BE EF	03	06 00	06 3F	01 00	01 36	10 00
		MY MEMORY	BE EF	03	06 00	66 3E	01 00	01 36	12 00
		PICTURE MODE	BE EF	03	06 00	F6 3F	01 00	01 36	13 00
		TEMPLATE	BE EF	03	06 00	36 38	01 00	01 36	1B 00
	0.1	MUTE	BE EF	03	06 00	06 21	01 00	01 36	38 00
MY BUTTON-2	Set	Pb₽ /PinP SWAP	BE EF	03	06 00	A6 39	01 00	01 36	1A 00
		PinP POSITION	BE EF	03	06 00	C6 23	01 00	01 36	3C 00
		BLANK	BE EF	03	06 00	06 03	01 00	01 36	40 00
		RESOLUTION	BE EF	03	06 00	66 3B	01 00	01 36	1E 00
		LIGHT OUTPUT	BE EF	03	06 00	F6 24	01 00	01 36	37 00
		ACCENTUALIZER	BE EF	03	06 00	66 20	01 00	01 36	3A 00
		HDCR	BE EF	03	06 00	A6 22	01 00	01 36	3E 00
		Get	BE EF	03	06 00	F5 32	02 00	01 36	00 00

Nomes			l la a da a			000	Command Data		
Names		operation by e	F	leade	er.	CRC	At ion	Тpe	Setting o de
		MY IMAGE	BE EF	03	06 00	E2 3C	01 00	02 36	16 00
		MESSENGER	BE EF	03	06 00	12 28	01 00	02 36	25 00
		INFORMATION	BE EF	03	06 00	42 3F	01 00	02 36	10 00
		MY MEMORY	BE EF	03	06 00	22 3E	01 00	02 36	12 00
		PICTURE MODE	BE EF	03	06 00	B2 3F	01 00	02 36	13 00
		TEMPLATE	BE EF	03	06 00	72 38	01 00	02 36	1B 00
	Sot	MUTE	BE EF	03	06 00	42 21	01 00	02 36	38 00
MY BUTTON-3	000	Pb₽ /PinP SWAP	BE EF	03	06 00	E2 39	01 00	02 36	1A 00
		PinP POSITION	BE EF	03	06 00	82 23	01 00	02 36	3C 00
		BLANK	BE EF	03	06 00	42 03	01 00	02 36	40 00
		RESOLUTION	BE EF	03	06 00	22 3B	01 00	02 36	1E 00
		LIGHT OUTPUT	BE EF	03	06 00	B2 24	01 00	02 36	37 00
		ACCENTUALIZER	BE EF	03	06 00	22 20	01 00	02 36	3A 00
		HDCR	BE EF	03	06 00	E2 22	01 00	02 36	3E 00
		Get	BE EF	03	06 00	B1 32	02 00	02 36	00 00
		MY IMAGE	BE EF	03	06 00	1E 3D	01 00	03 36	16 00
		MESSENGER	BE EF	03	06 00	EE 29	01 00	03 36	25 00
		INFORMATION	BE EF	03	06 00	BE 3E	01 00	03 36	10 00
		MY MEMORY	BE EF	03	06 00	DE 3F	01 00	03 36	12 00
		PICTURE MODE	BE EF	03	06 00	4E 3E	01 00	03 36	13 00
		TEMPLATE	BE EF	03	06 00	8E 39	01 00	03 36	1B 00
	Set	MUTE	BE EF	03	06 00	BE 20	01 00	03 36	38 00
MY BUTTON-4		Pbi₽ /PinP SWAP	BE EF	03	06 00	1E 38	01 00	03 36	1A 00
		PinP POSITION	BE EF	03	06 00	7E 22	01 00	03 36	3C 00
		BLANK	BE EF	03	06 00	BE 02	01 00	03 36	40 00
		RESOLUTION	BE EF	03	06 00	DE 3A	01 00	03 36	1E 00
		LIGHT OUTPUT	BE EF	03	06 00	4E 25	01 00	03 36	37 00
		ACCENTUALIZER	BE EF	03	06 00	DE 21	01 00	03 36	3A 00
		HDCR	BE EF	03	06 00	1E 23	01 00	03 36	3E 00
		Get	BE EF	03	06 00	4D 33	02 00	03 36	00 00
	Set	OFF	BE EF	03	06 00	FF 32	01 00	00 26	00 00
REMOTE FRONT		ON	BE EF	03	06 00	6F 33	01 00	00 26	01 00
		Get	BE EF	03	06 00	CC 32	02 00	00 26	00 00
	Set	OFF	BE EF	03	06 00	03 33	01 00	01 26	00 00
REMOTE REAR		ON	BE EF	03	06 00	93 32	01 00	01 26	01 00
		Get	BE EF	03	06 00	30 33	02 00	01 26	00 00
REMOTE	Set	OFF	BE EF	03	06 00	BB 32	01 00	03 26	00 00
RECEIV.		ON	BE EF	03	06 00	2B 33	01 00	03 26	01 00
HDBaseT		Get	BE EF	03	06 00	88 32	02 00	03 26	00 00
REMOTE EREO	Set	OFF	BE EF	03	06 00	FF 3D	01 00	30 26	00 00
NORMAI		ON	BE EF	03	06 00	6F 3C	01 00	30 26	01 00
		Get	BE EF	03	06 00	CC 3D	02 00	30 26	00 00
REMOTE EREO	Set	OFF	BE EF	03	06 00	03 3C	01 00	31 26	00 00
HIGH		ON	BE EF	03	06 00	93 3D	01 00	31 26	01 00
пюп		Get	BE EF	03	06 00	30 3C	02 00	31 26	00 00

Names	Names Operation Tp e		Header			CRC	Command Data			
Names				leaue	1	OIXO	At ion	Тpre	Setting o de	
		ALL	BE EF	03	06 00	9F 30	01 00	08 26	00 00	
		1	BE EF	03	06 00	0F 31	01 00	08 26	01 00	
	Set	2	BE EF	03	06 00	FF 31	01 00	08 26	02 00	
REMOTEID		3	BE EF	03	06 00	6F 30	01 00	08 26	03 00	
		4	BE EF	03	06 00	5F 32	01 00	08 26	04 00	
		Get	BE EF	03	06 00	AC 30	02 00	08 26	00 00	
REMOTE OUT	Sot	OFF	BE EF	03	06 00	47 3C	01 00	32 26	00 00	
- REMOTE	Sei	ON	BE EF	03	06 00	D7 3D	01 00	32 26	01 00	
CONTROL		Get	BE EF	03	06 00	74 3C	02 00	32 26	00 00	
DEMOTE OUT	Sat	OFF	BE EF	03	06 00	BB 3D	01 00	33 26	00 00	
	Sel	ON	BE EF	03	06 00	2B 3C	01 00	33 26	01 00	
		Get	BE EF	03	06 00	88 3D	02 00	33 26	00 00	
		OFF	BE EF	03	06 00	3A C3	01 00	00 35	00 00	
		IMAGE-1	BE EF	03	06 00	AA C2	01 00	00 35	01 00	
	Set	IMAGE-2	BE EF	03	06 00	5A C2	01 00	00 35	02 00	
		IMAGE-3	BE EF	03	06 00	CA C3	01 00	00 35	03 00	
		IMAGE-4	BE EF	03	06 00	FA C1	01 00	00 35	04 00	
		Get	BE EF	03	06 00	09 C3	02 00	00 35	00 00	
MY IMAGE IMAGE-1 Delete	Ene or te		BE EF	03	06 00	71 C3	06 00	01 35	00 00	
MY IMAGE IMAGE-2 Delete		Ene or te	BE EF	03	06 00	35 C3	06 00	02 35	00 00	
MY IMAGE IMAGE-3 Delete		Ene or te	BE EF	03	06 00	C9 C2	06 00	03 35	00 00	
MY IMAGE IMAGE-4 Delete		Ene or te	BE EF	03	06 00	BD C3	06 00	04 35	00 00	
	Sat	OFF	BE EF	03	06 00	33 AC	01 00	30 1B	00 00	
AMX for LAN	Jei	ON	BE EF	03	06 00	A3 AD	01 00	30 1B	01 00	
		Get	BE EF	03	06 00	00 AC	02 00	30 1B	00 00	
	Sat	OFF	BE EF	03	06 00	33 B2	01 00	50 1B	00 00	
CRESTRON	Jei	ON	BE EF	03	06 00	A3 B3	01 00	50 1B	01 00	
		Get	BE EF	03	06 00	00 B2	02 00	50 1B	00 00	
	Set	OFF	BE EF	03	06 00	33 BD	01 00	60 1B	00 00	
	Sel	ON	BE EF	03	06 00	A3 BC	01 00	60 1B	01 00	
HDBae I		Get	BE EF	03	06 00	00 BD	02 00	60 1B	00 00	

Names	Operation Tp e		F	Header			Command Data		
Taines				leaue	1		At ion	Тpre	Setting o de
HDMI OUT	Set	EXTERNAL DEVICE	BE EF	03	06 00	46 EF	01 00	C2 20	00 00
RESOLUTION		PROE CTOR	BE EF	03	06 00	D6 EE	01 00	C2 20	01 00
		Get	BE EF	03	06 00	75 EF	02 00	C2 20	00 00
		OFF	BE EF	03	06 00	EADE	01 00	3F 20	00 00
		AUDIO IN1	BE EF	03	06 00	7A DF	01 00	3F 20	01 00
STANDBY	Cat	AUDIO IN2	BE EF	03	06 00	8A DF	01 00	3F 20	02 00
OUTPUT -	Sei	HDMI 1 / MHL	BE EF	03	06 00	2A C7	01 00	3F 20	20 00
AUDIO OUT		HDMI 2	BE EF	03	06 00	BA C6	01 00	3F 20	21 00
		HDBa e T	BE EF	03	06 00	EA C5	01 00	3F 20	24 00
		Get	BE EF	03	06 00	D9 DE	02 00	3F 20	00 00
STANDBY	Cat	COMPUTER IN	BE EF	03	06 00	2A F7	01 00	BF 20	00 00
OUTPUT -	Sei	OFF	BE EF	03	06 00	DA B6	01 00	BF 20	FF 00
MONITOR OUT		Get	BE EF	03	06 00	19 F7	02 00	BF 20	00 00
		HDMI 1 / MHL	BE EF	03	06 00	F2 EF	01 00	C1 20	03 00
STANDBY	Set	HDBa e T	BE EF	03	06 00	52 E3	01 00	C1 20	11 00
		OFF	BE EF	03	06 00	F2 AE	01 00	C1 20	FF 00
		Get	BE EF	03	06 00	31 EF	02 00	C1 20	00 00
	0.1	OFF	BE EF	03	06 00	02 2C	01 00	31 23	00 00
	Set	ON	BE EF	03	06 00	92 2D	01 00	31 23	01 00
Enable	Get		BE EF	03	06 00	31 2C	02 00	31 23	00 00
	0	HDMI 1 / MHL	BE EF	03	06 00	CE 37	01 00	40 23	03 00
HDMIOUIPUI -	Set	HDBa e T	BE EF	03	06 00	6E 3B	01 00	40 23	11 00
COMPUTER IN		Get	BE EF	03	06 00	0D 37	02 00	40 23	00 00
	Cat	HDMI 1 / MHL	BE EF	03	06 00	32 36	01 00	41 23	03 00
HDMIOUIPUI -	Sei	HDBa e T	BE EF	03	06 00	92 3A	01 00	41 23	11 00
VIDEO		Get	BE EF	03	06 00	F1 36	02 00	41 23	00 00
HDMI OUTPUT - HDMI 1 / MHL		Get	BE EF	03	06 00	49 37	02 00	43 23	00 00
	0.1	HDMI 1 / MHL	BE EF	03	06 00	EA 35	01 00	4B 23	03 00
HDMI OUTPUT -	Set	HDBa e T	BE EF	03	06 00	4A 39	01 00	4B 23	11 00
LAN		Get	BE EF	03	06 00	29 35	02 00	4B 23	00 00
	<u> </u>	HDMI 1 / MHL	BE EF	03	06 00	62 35	01 00	4D 23	03 00
HDMI OUTPUT -	Set	HDBa e T	BE EF	03	06 00	C2 39	01 00	4D 23	11 00
HDMI 2		Get	BE EF	03	06 00	A1 35	02 00	4D 23	00 00
HDMI OUTPUT - HDBaseT		Get	BE EF	03	06 00	31 32	02 00	51 23	00 00

PULink oommand

Commands	Control Des iption	Parameter or Rep one
POWR	Power Control	0 = Standby 1 = Power On
POWR ?	Power Status inquiry	0 = Standby 1 = Power On 2 = Cool Down
INPT	Input Soure e let ion	11 = COMPUTER IN 23 = VIDEO 31 = HDMI 1 / MHL 33 = HDMI 2 36 = HDBae T 51 = LAN
INPT ?	Input Soure inquiry	11 = COMPUTER IN 23 = VIDEO 31 = HDMI 1 / MHL 33 = HDMI 2 36 = HDBae T 51 = LAN
AVMT	AV Mute	10 = BLANK off 11 = BLANK on 20 = Mute off 21 = Mute on 30 = AV Mute off 31 = AV Mute on
AVMT ?	AV Mute inquiry	10 = BLANK off 11 = BLANK on 20 = Mute off 21 = Mute on 30 = AV Mute off 31 = AV Mute on
ERST ?	Error Status inquiry	1st byte: Refers to Fan error; one of 0 to 22nd byte: Refers to Light Source; one of 0 to 23rd byte: Refers to Temperature error; one of 0 to 24th byte: Refers to Cover error; one of 0 to 25th byte: Refers to Filter error; one of 0 to 26th byte: Refers to Other error; one of 0 to 2The meaning of 0 to 2 is as given below0 = Error is not detected;1 = Warning;2 = Error

Commands	Control Des iption	Parameter or Rep one
LAMP ?	Light Source Status inquiry	1st number (digits 1 to 5): Light Source Time 2nd number : 0 = Light Source off, 1 = Light Source on
INST ?	Input Soure Lits inquiry	11 23 31 33 36 51
NAME ?	Projector Name inquiry	Responds with the name set in the item PROJECTOR NAME of the NETWORK - NETWORK SETUP menu
INF1?	Manufacturer's Name inquiry	HITACHI / DUKANE
INF2 ?	Model Name inquiry	LP-WU3500 / 8964WUSS LP-WX3500 / 8964WSS
INFO ?	Other Information inquiry	Responds with the factory information and so on
CLSS ?	Class Information inquiry	1

NOTE • The password used in PJLink[™] is the same as the password set in the Web Control. To use PJLink[™] without authentication, do not set any pasy ord in Web Brows r Control.

• For specifications of PJLink[™], see the web site of the Japan Business Machine and Information System Industries Association.

URL: http://pjlink.jbmia.or.jp/

• Trademark PJLink is a trademark applied for trademark rights in Japan, the United States of America and other countries and areas.

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Note: The Dukane model described in this document is manufactured by Hitachi and use the same firmware, software programs, control code, and accessory parts. The equivalent Dukane to Hitachi models are; 8964WUSS (LP-WU3500) and 8964WSS (LP-WX3500).

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