RS232C Command List for EK-800U

2016/12/15
Ver 1.02

Pin Alignment

PC	
Pin	Description
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

Projector	
Pin	Description
1	NC
2	RXD
3	TXD
4	NC
5	GND
6	NC
7	RTS
8	CTS
9	NC

RS232C Setting

Baud Rate:	19200 (Default)
Parity Check:	None
Data Bit:	8
Stop Bit:	1
Flow Control:	None

*Baud rate can be changed below value in OSD.
--> 9600, 14400, 19200, 38400, 57600, 115200

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Category	Item	Standard Format	Expand Format		Reply	Note
		Commands	Commands	Parameter (%1=)		
	1-1		CR_IMAGE		1 ~ 7	Check Display Mode setting (1:Presentation, 2:Video, 3:Bright, 4:DICOM SIM, 5:2D High Speed, 6:3D, 7:User)
			CF_IMAGE_%1	1		Presentation
				2		Video
				3		Bright
				4		DICOM SIM
				5		2D High Speed
				6		3D
				7		User
			CF_IMAGE_SAVE			Save Current Setting to "User"
	1-2		CR_BRIGHT		0 ~ 100	Check Bright Value
			CF_BRIGHT_%1	0 ~ 100		Set Bright Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-3		CR_CONT		0 ~ 100	Check Contrast Value
			CF_CONT_%1	0 ~ 100		Set Contrast Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-4		CR_SHARP		0 ~ 4	Check Sharp Value
			CF_SHARP_%1	0 ~ 4		Set Sharp Value (0 ~ 4)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-5		CR_COLOR		0 ~ 100	Check Color Value
			CF_COLOR_%1	0 ~ 100		Set Color Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-6		CR_TINT		0 ~ 100	Check Tint Value
			CF_TINT_%1	0 ~ 100		Set Tint Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-7		CR_PHASE		0 ~ 100	Check Phase Value
			CF_PHASE_%1	0 ~ 100		Set Phase Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-8		CR_FREQ		0 ~ 100	Check Frequency Value
			CR_FREQ_%1	0 ~ 100		Set Frequenc Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-9		CR_HPOS		0 ~ 100	Check Horizontal Position Value
			CF_HPOS_%1	0 ~ 100		Set Horizontal Position Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-10		CR_VPOS		0 ~ 100	Check Vertical Position Value
			CF_VPOS_%1	0 ~ 100		Set Vertical Position Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-11	C89				Execute Auto Image
	1-12-1		CR_3D-Mode		0 ~ 5	Check 3D Mode setting
			CF_3D-MODE_%1	0		Off
				1		Auto
				2		Frame Packing
				3		Side by Side
				4		Top and Bottom
				5		Frame Sequential
	1-12-2		CR_3D-INVERT		0 ~ 1	Check 3D-Invert setting
			CF_3D-INVERT_%1	0		Off
				1		On
	1-12-3		CR_DLPLINK			Check DLP-LINK setting
			CF_DLPLINK_%1	0		Off
				1		On
	1-13-1		CR_COLORMATCHING		0 ~ 1	Check Color Matching setting
			CF_COLORMATCHING_%1	0		Off
				1		On
	1-13-2		CR_CMAUTOTESTPAT		0 ~ 1	Check Auto Test Pattern setting
			CF_CMAUTOTESTPAT_%1	0		Off
				1		On
	1-13-3		CR_CM_RR		0000 ~ 1000	Check Red Part of Red Value
			CF_CM_RR_%1	0000 ~ 1000		Set Red Part of Red Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-4		CR_CM_RG		0000 ~ 1000	Check Green Part of Red Value
			CF_CM_RG_%1	0000 ~ 1000		Set Green Part of Red Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-5		CR_CM_RB		0000 ~ 1000	Check Blue Part of Red Value
			CF_CM_RB_%1	0000 ~ 1000		Set Blue Part of Red Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-6		CR_CM_GG		0000 ~ 1000	Check Green Part of Green Value
			CF_CM_GG_%1	0000 ~ 1000		Set Green Part of Green Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-7		CR_CM_GR		0000 ~ 1000	Check Red Part of Green Value
			CF_CM_GR_%1	0000 ~ 1000		Set Red Part of Green Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-8		CR_CM_GB		0000 ~ 1000	Check Blue Part of Green Value
			CF_CM_GB_%1	0000 ~ 1000		Set Blue Part of Green Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting

PICTURE	1-13-9		CR_CM_BB		0000 ~ 1000	Check Blue Part of Blue Value
			CF_CM_BB_%1	0000 ~ 1000		Set Blue Part of Blue Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-10		CR_CM_BR		0000 ~ 1000	Check Red Part of Blue Value
			CF_CM_BR_%1	0000 ~ 1000		Set Red Part of Blue Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-11		CR_CM_BG		0000 ~ 1000	Check Green Part of Blue Value
			CF_CM_BG_%1	0000 ~ 1000		Set Green Part of Blue Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-12		CR_CM_WR		0000 ~ 1000	Check Red Part of White Value
			CF_CM_WR_%1	0000 ~ 1000		Set Red Part of White Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-13		CR_CM_WG		0000 ~ 1000	Check Green Part of White Value
			CF_CM_WG_%1	0000 ~ 1000		Set Green Part of White Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-14		CR_CM_WB		0000 ~ 1000	Check Blue Part of White Value
			CF_CM_WB_%1	0000 ~ 1000		Set Blue Part of White Value (0 ~ 1000)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-13-19		CF_CMFDEFAULT_RST			Reset the value of Color Matching
	1-14-1		CR_BCOLOR		1 ~ 2	Check Brilliant Color setting
			CF_BCOLOR_%1	1		Normal Lock
				2		Bright Lock
	1-14-2		CR_WPEAK		0 ~ 100	Check White Peaking Value
			CF_WPEAK_%1	0 ~ 100		Set White Peaking Value (Step value size is "10")
				UP		Increase setting value (+10) from current setting
				DN		Decrease setting value (-10) from current setting
	1-14-3		CR_GAMMA		1 ~ 5	Check Gamma setting
			CF_GAMMA_%1	1		VIdeo
				2		Film
				3		Bright
				4		CRT
				5		DICOM
	1-14-4		CR_COLTEMP		1 ~ 4	Check Brilliant Color setting
			CF_COLTEMP_%1	1		Warmest
				2		Warm
				3		Cool
				4		Bright
	1-14-5		CR_COLORSPACE		1 ~ 5	Check Brilliant Color setting
			CF_COLORSPACE_%1	1		Auto
				2		RGB
				3		REC709
				4		REC601
				5		RGB Video
	1-14-6-1		CR_GAIN_R		0 ~ 100	Check Red Gain Value
			CF_GAIN_R_%1	000 ~ 100		Set Red Gain Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-14-6-2		CR_GAIN_G		0 ~ 100	Check Green Gain Value
			CF_GAIN_G_%1	000 ~ 100		Set Green Gain Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-14-6-3		CR_GAIN_B		0 ~ 100	Check Blue Gain Value
			CF_GAIN_B_%1	000 ~ 100		Set Blue Gain Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-14-6-4		CR_OFFSET_R		0 ~ 100	Check Red Offset Value
			CF_OFFSET_R_%1	000 ~ 100		Set Red Gain Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-14-6-5		CR_OFFSET_G		0 ~ 100	Check Green Offset Value
			CF_OFFSET_G_%1	000 ~ 100		Set Green Gain Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-14-6-6		CR_OFFSET_B		0 ~ 100	Check Blue Offset Value
			CF_OFFSET_B_%1	000 ~ 100		Set Blue Gain Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-14-7		CF_GO_RST			Reset the value of Gain/Offset
	1-14-8		CR_CENHANCE		0 ~ 2	Check Color Enhance setting
			CF_CENHANCE_%1	0 ~ 2		Set Color Enhance Value (0 ~ 2)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-14-9		CR_CWSPEED		1 ~ 2	Check Color Wheel Speed setting
			CF_CWSPEED_%1	1		2X
				2		3X
	1-14-10		CR_DYNAMICBLACK		0 ~ 1	Check Dynamic Black setting
			CF_DYNAMICBLACK_%1	0		Off
				1		On
	1-14-11		CR_NZRED		0 ~ 100	Check Noise Reduction Value
			CF_NZRED_%1	0 ~ 100		Set Noise Reduction Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-14-12		CR_FTCORRECTION			Check Flesh Tone Correction Value
			CF_FTCORRECTION_%1	0 ~ 100		Set Flesh Tone Correction Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	1-14-13		CR_VBLEVEL		0 ~ 1	Check Video Black Level setting
			CF_VBLEVEL_%1	0		Off
				1		On
	1-14-14		CR_FMODE		0 ~ 1	Check Film mode setting
			CF_FMODE_%1	0		Off
				1		On

OUTPUT	2-1		CR_ASPECT		1 ~ 5	CheckAspect Ratio setting
		C0F	CF_ASPECT_%1	1		Auto
				2		4:3
				3		16:10
				4		Native
				5		3D Mode
	2-2		CR_OVERSCAN		1 ~ 2	Check Overscan setting
			CF_OVERSCAN_%1	0		Off
				2		Zoom
				1		Crop
	2-3		CR_DZOOM_H		50 ~ 400	Check H Digital Zoom value
			CF_DZOOM_H_%1	50 ~ 400		Set H Digital Zoom Value (50 ~ 400)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	2-4		CR_DZOOM_V		50 ~ 400	Check V Digital Zoom value
			CF_DZOOM_V_%1	50 ~ 400		Set V Digital Zoom Value (50 ~ 400)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	2-5		CR_DSHIFT_H		0 ~ 100	Check H Digital Shift value
			CF_DSHIFT_H_%1	0 ~ 100		Set H Digital Shift Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	2-6		CR_DSHIFT_V		0 ~ 100	Check V Digital Shift value
			CF_DSHIFT_V_%1	0 ~ 100		Set V Digital Shift Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	2-7-1		CR_PCMODE		0 ~ 1	Check PC Mode setting
			CF_PCMODE_%1	0		Off
				1		On
	2-7-2		CR_KYSTN_H			Check H Keystone value
			CF_KYSTN_H_%1	0 ~ 40		Set H Keystone Value (0 ~ 40)
		C90		UP		Increase setting value (+1) from current setting
		C91		DN		Decrease setting value (-1) from current setting
	2-7-3		CR_KYSTN_V			Check V Keystone value
			CF_KYSTN_V_%1	0 ~ 40		Set V Keystone Value (0 ~ 40)
		C8E		UP		Increase setting value (+1) from current setting
		C8F		DN		Decrease setting value (-1) from current setting
	2-7-4		CR_WARP_PB_H			Check H Pincushion value
			CF_WARP_PB_H_%1	0 ~ 100		Set H Pincushion Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	2-7-5		CR_WARP_PB_V			Check V Pincushion value
			CF_WARP_PB_V_%1	0 ~ 100		Set V Pincushion Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
	2-8-1		CR_PIPMODE			CheckPIP/PBP Enable setting
			CF_PIPMODE_%1	0		Off
				1		On
	2-8-2	CR1	CR_PIPMAININP		1 ~ 8	Check Main Source setting
		C05	CF_PIPMAININP_%1	1		VGA
		C54		2		BNC
		C36		3		HDMI
		C52		4		DVI-D
		C55		5		3G-SDI
		C38		6		HDBaseT
		C07		7		CVBS
		C08		8		Network Display
	2-8-3		CR_PIPSUBINP		1 ~ 8	Check Sub Source setting
			CF_PIPSUBINP_%1	1		VGA
				2		BNC
				3		HDMI
				4		DVI-D
				5		3G-SDI
				6		HDBaseT
				7		CVBS
				8		Network Display
	2-8-4		CF_PIPSWAP			Execute PIP/PBP Swap
	2-8-5		CR_PIPSIZESUB		1 ~ 3	Check PIP Size setting
			CF_PIPSIZESUB_%1	1		Small
				2		Medium
				3		Large
	2-8-5		CR_PIPPOSITION		1 ~ 8	Check Layout setting
			CF_PIPPOSITION_%1	1		PBP, Main Left
				2		PBP, Main Top
				3		PBP, Main Right
				4		PBP, Main Bottom
				5		PIP-Bottom Right
				6		PIP-Bottom Left
				7		PIP-Top Left
				8		PIP-Top Right
	3-1		CR_LANG		ENG, FRA, ….	Check Language setting
			CF_LANG_%1	ENG		English
				FRA		French
				ESP		Spanish
				DEU		German
				ITA		Italian
				RUS		Russian
				SCH		Chinese Simpified
				TCH		Chinese Traditional
				JPN		Japanese
				KOR		Korean
				POR		Portuguese
				INA		Indonesian
				NED		Dutch
	3-2		CR_CEIL		0 ~ 2	Check Ceiling setting
			CF_CEIL_%1	0		Off
				1		On
				2		Auto

3-3		CR_REAR		0 ~ 1	Check Rear setting
		CF_REAR_%1	0		Off
			1		On
3-4-1	C4B				Focus in - motor go step
	C4D				Focus in - motor run
	C4A				Focus out - motor go step
	C4C				Focus out - motor run
3-4-2	C46				Zoom in - motor go step
	C48				Zoom in - motor run
	C47				Zoom out - motor go step
	C49				Zoom out - motor run
3-4-3	C5D				Left shift up - motor go step
	C63				Left shift up - motor run
	C5E				Left shift down - motor go step
	C64				Left shift down - motor run
	C60				Left shift right - motor go step
	C66				Left shift right - motor run
	C5F				Left shift left - motor go step
	C65				Left shift left - motor run
3-4-4	C61				Yes/No (Dialog box)
3-4-5		CR_LENSLOCK	0 ~ 1		Check Lens Lock setting
		CF_LENSLOCK_%1	0		No
			1		Yes
3-5		CR_MENUTRANS		0 ~ 9	Check Menu Transparency setting
		CF_MENUTRANS_%1	0 ~ 9		Set Menu Transparency value (0 ~ 9)
3-6		CR_DISP		0 ~ 1	Check Show Messages setting
		CF_DISP_%1	0		Off
			1		On
3-7		CR_KEYLIGHT		0 ~ 1	CheckKey Light setting
		CF_KEYLIGHT_%1	0		Off
			1		On
SETUP 3-8-1		CF_PJPINCODE_%1	00000 ~ 99999		Execute PIN Protect with code. (PIN Protect function is toggled.)
3-8-2		CF_PJPINCODECHANGE_%1_%2	%1= Old PIN %2= New PIN (00000 ~ 99999)		Change PIN CODE setting (%1 = Current PIN Code, %2 = New PIN Code)
3-9		CR_CCAPTIONDISP		0 ~ 2	Check Closed Caption setting
		CF_CCAPTIONDISP_%1	0		Off
			1		CC1
			2		CC2
3-10-1-1		CR_DHCP		0 ~ 1	Check LAN DHCP setting
		CF_DHCP_%1	0		OFF
			1		ON
3-10-1-2		CR_IPADDRESS		xxx.xxx.xxx.xxx	Check LAN IP Address setting
		CF_IPADDRESS_%1	xxx.xxx.xxx.xxx		Set LAN IP Address
3-10-1-3		CR_SUBNET		xxx.xxx.xxx.xxx	Check LAN Subnet setting
		CF_SUBNET_%1	xxx.xxx.xxx.xxx		Set LAN Subnet setting
3-10-1-4		CR_GATEWAY		xxx.xxx.xxx.xxx	Check LAN Gateway setting
		CF_GATEWAY_%1	xxx.xxx.xxx.xxx		Set LAN Gateway setting
3-10-1-5		CR_MACADDRESS		xx-xx-xx-xx-xx-xx	Check LAN MAC Adress setting
3-10-1-6		CF_LANSETAPPLY			Save LAN setting
3-10-2-1		CR_WLAN		0 ~ 1	Check WLAN Enable setting
		CF_WLAN_%1			OFF
					ON
3-10-2-2		CR_WLAN_STARTIP		xxx.xxx.xxx.xxx	Check WLAN Start IP Address setting
		CF_WLAN_STARTIP_%1	xxx.xxx.xxx.xxx		Set WLAN Start IP Address
3-10-2-3		CR_WLAN_ENDIP		xxx.xxx.xxx.xxx	Check WLAN End IP Address setting
		CF_WLAN_ENDIP_%1	xxx.xxx.xxx.xxx		Set WLAN End IP Address
3-10-2-4		CR_WLAN_SUBNET		xxx.xxx.xxx.xxx	Check WLAN Subnet setting
		CF_WLAN_SUBNET_%1	xxx.xxx.xxx.xxx		Set WLAN Subnet setting
3-10-2-5		CR_WLAN_GATEWAY		xxx.xxx.xxx.xxx	Check WLAN Gateway setting
		CF_WLAN_GATEWAY_%1	xxx.xxx.xxx.xxx		Set WLAN Gateway setting
3-10-2-6		CR_WLAN_MACADDRESS		xx-xx-xx-xx-xx-xx	Check WLAN MAC Adress setting
3-10-2-7		CR_WLAN_SSID			Check WLAN SSID setting
3-10-3-1		CR_NET_PJNAME			Check Network PJ Name setting
3-10-3-2		CF_NET_RESET			Restart Network
3-10-3-3		CF_NET_FACTORY_RESET			Factory Reset Network setting
3-10-4		CR_BAUDRATE		1 ~ 6	Check Serial Port Baud Rate setting
		CF_BAUDRATE_%1	1		9600
			2		14400
			3		19200
			4		38400
			5		57600
			6		115200
3-10-5		CR_SERIALECHO		0 ~ 1	Check Serial Port Echo setting
		CF_SERIALECHO_%1	0		Off
			1		On
3-10-6		CR_SERIALPATH		1 ~ 2	Check Serial Port Path setting
		CF_SERIALPATH_%1	1		RS232
			2		HDBaseT
3-10-7		CR_PJIRADDRESS		0 ~ 9	Check Projector Address setting
		CF_PJIRADDRESS_%1	0 ~ 9		Set Projector Address
4-1		CR_AUTOSRC		0 ~ 1	Check Auto Source setting
		CF_AUTOSRC_%1	0		Off
			1		On
4-2		CR_ALTITUDE		0 ~ 1	Check High Altitude setting
		CF_ALTITUDE_%1	0		Off
			1		On
4-3		CR_TESTPAT		0 ~ 9	Check Test Pattern setting
		CF_TESTPAT_%1	0		Off
			1		Grid
			2		Red
			3		Green
			4		Blue
			5		Yellow
			6		Magenta
			7		Cyan
			8		White
			9		Black

OPTION	4-4		CR_BACKGND		1 ~ 4	Check Background color setting
			CF_BACKGND_%1	1		Logo
				2		Blue
				3		Black
				4		White
	4-5		CR_HOTKEY		1 ~ 5	Check Hot-Key setting
			CF_HOTKEY_%1	1		Blank Screen
				2		Aspect Ratio
				3		Freeze Screen
				4		Overscan
				5		Closed Captions
	4-6-1		CR_ECONETWORK		0 ~ 1	Check Stand-by Network setting
			CF_ECONETWORK_%1	1	0	0.5W mode
				0		Communication mode
	4-6-2		CR_AUTOPOWERON		0 ~ 1	Check Direct Power On setting
		C29	CF_AUTOPOWERON	0		Off
		C28		1		On
	4-6-3		CR_AUTOPOWEROFF		0 ~ 6	Check Auto Power Off setting
			CF_AUTOPOWEROFF_%1	0		No
				1		5 Mins
				2		10 Mins
				3		15 Mins
				4		20 Mins
				5		25 Mins
				6		30 Mins
	4-6-4		CR_SLEEP		0 ~ 3	Check Sleep Timer setting
			CF_SLEEP_%1	0		No
				1		2 Hours
				2		4 Hours
				3		6 Hours
	4-7-1		CR_AUTOLAMPCONTROL		1 ~ 3	Check Auto Lamp Control setting
			CF_AUTOLAMPCONTROL_%1	2		Constant Power
				3		Constant Luminance
				1		Eco Mode
	4-7-2		CR_LAMPPOWER		0 ~ 10	Check Lamp Power setting
			CF_LAMPPOWER_%1	0 ~ 10		Set Lamp Power value
	4-7-3		CR_LAMPLUMINANCE		0 ~ 10	Check Lamp Luminance setting
			CF_LAMPLIMINANCE_%1	0 ~ 10		Set Lamp Luminance value
	4-7-4		CR_LAMPMODE		1 ~ 3	Check Lamp Mode setting
			CF_LAMPMODE_%1	1		Lamp 1
				2		Lamp 2
				3		Both
	4-7-5		CR_LAMPSWITCH		1 ~ 3	Check Lamp Switch setting
			CF_LAMPSWITCH_%1	1		On Failure Only
				2		At Power-Up
				3		After X Hours
	4-7-6		CR_LAMPSWITCHTIME		5 ~ 3000	Check Lamp Switch Time setting
			CF_LAMPSWITCHTIME_%1	5 ~ 3000		Set Lamp Switch Time value
	4-7-7-1	CR3			%1 %2 (%1 = Lamp 1 hour %2 = Lamp 2 hour)	i.e. LAmp1 is 500 hours, Lamp 2 is 15 hours, reply is "500 15"
	4-7-7-2		CR_PJTIME			Check the projector usage time
	4-7-8-1		CF_LAMP1HOUR_RESET			Reset the usage hour of Lamp 1
	4-7-8-2		CF_LAMP2HOUR_RESET			Reset the usage hour of Lamp 2
	4-7-8-3		CF_LAMPALL_RESET			Reset the usage hour of Lamps (1 and 2)
	4-8-1		CF_LIGHTSENSCALI			Execute the Light Sensor Calibration
	4-8-2		CR_LIGHTSENSCALI		0 ~ 1	Check status of the Light Sensor Calibration 0 = No 1 = Yes
	4-9-1		CR_MODELNAME			Check the Model Name
	4-9-2		CR_SERIALNO			Check the Serial Number
	4-9-3		CR_NRESOLUTION			Check the Native Resolution
	4-9-4		CR_SWVER			Check the Software Version
	4-9-5	CR1				Check the Input Source
	4-9-6		CR_RESOLUTION			Cehck the Resolution of Input Signal
	4-9-7		CR_SYSTEM			Check the Signal Format
	4-9-8		CR_PIXELCLK			Check the Pixel Clock
	4-9-10		CR_REFRESH		%1 %2 (%1 = H freq. %2 = V freq.)	Check the Vertical and Horizontal Reflesh Rate
	4-9-11		CR_PIPSUBINP			Check the Input sourece (Sub)
	4-9-12		CR_SUB_RESOLUTION			Cehck the Resolution of Input Signal (Sub)
	4-9-13		CR_SUB_SYSTEM			Check the Signal Format (Sub)
	4-9-14		CR_SUB_PIXELCLK			Check the Pixel Clock (Sub)
	4-9-15		CR_SUB_REFRESH		%1 %2 (%1 = H freq. %2 = V freq.)	Check the Vertical and Horizontal Reflesh Rate (Sub)
	4-9-16		CR_AUTOLAMPCONTROL			Check status of the Light Source Mode
	4-9-17		CR_LAMPMODE			Check status of the Current Light Source
	4-9-18	CR3			%1 %2 (%1 = Lamp 1 hour %2 = Lamp 2 hour)	Check the Usage Hour of Lamps (1 and 2)
	4-9-19		CR_ECONETWORK			Check status of the Standby Power Mode
	4-9-20		CR_IPADDRESS			Check status of the IP Address
	4-9-21		CR_DHCP			Check status of the DHCP
	4-9-22		CR_TEMP			Check temperature of the Intake
	4-9-23		CF_FACTORY_RESET			Execute the Factory Reset

Other	A-1	C00				Power On
	A-2	C01				Power Off (Directly Off)
	A-3	C0D				Shutter Close
	A-4	C0E				Shutter Open
	A-5	C43				Freeze On
	A-6	C44				Freeze Off
	A-7		CR_ALLPFAIL			Check the record of self diagnosis
	A-8	CR0				Projector Status 1 = Stand-by 2 = Warming Up 4 = Serching Source 7 = Display Source 12 = Cooling

Remote Control Button	B-1	C00				Power On
	B-2	C02				Power Off
	B-3		CF_KYBTN1			1 (VGA)
	B-4		CF_KYBTN2			2 (BNC)
	B-5		CF_KYBTN3			3 (HDMI)
	B-6		CF_KYBTN4			4 (DVI-D)
	B-7		CF_KYBTN5			5 (3G-SDI)
	B-8		CF_KYBTN6			6 (HDBase-T)
	B-9		CF_KYBTN7			7 (Video)
	B-10		CF_KYBTN8			8 (Network Display)
	B-11		CF_KYBTN9			9
	B-12		CF_KYINFO			Info
	B-13		CF_KYBTN0			0
	B-14	C27				Mode
	B-15	C89				Auto
	B-16		CF_KYSRC			SOURCE
	B-17	C3C				Up
	B-18	C3B				Left
	B-19	C3F				Enter
	B-20	C3A				Right
	B-21	C3D				DOWN
	B-22	C1C				MENU
	B-23		CF_KYEXIT			Exit
	B-24		CF_KYGAMMA			Gamma
	B-25		CF_KYBRIGHT			Bright
	B-26		CF_KYCONT			Cont.
	B-27		CF_KYPIP			PIP
	B-28	C5F				Lens H (Left)
	B-29	C60				Lens H (Right)
	B-30	C4A				Focus (Up)
	B-31	C5D				Lens V (Up)
	B-32	C5E				Lens V (Down)
	B-33	C4B				Focus (Down)
	B-34	C91				Keystone H (Left)
	B-35	C90				Keystone H (Right)
	B-36	C46				Zoom (Up)
	B-37	C8E				Keystone V (Up)
	B-38	C8F				Keystone V (Down)
	B-39	C47				Zoom (Down)
	B-40		CF_KYSHUTTER			Shutter (AV Mute) *Toggled
	B-41		CF_KYHOTKEY			Hot Key
	B-42		CF_KYTESTPAT			Pattern