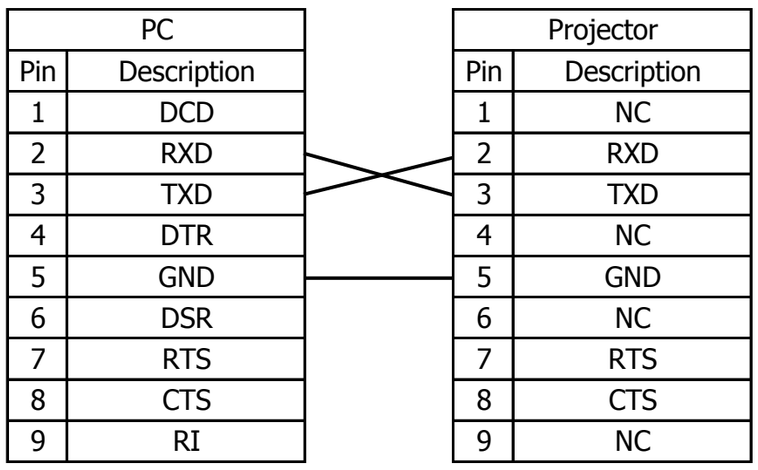
RS232C Command List for EK-820U

2017/12/4
Ver 1.00

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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RS232C Command List for EK-820U

Category	Item	EIKI Format A (BASIC)	EIKI Format B (Expand)		Reply	Note
		Commands	Commands	Parameter (%1=)		
	1-1		CF_IMAGE_%1	1		Presentation
				2		Video
				3		Bright
				4		REC709
				5		DICOM SIM
				6		2D High Speed
				7		3D
				8		Blending
				9		User
			CF_IMAGE_SAVE			Save Current Setting to "User"
			CR_IMAGE		1 ~ 9	"Check Display Mode setting (1:Presentation, 2:Video, 3:Bright, 4:REC709, 5:DICOM SIM, 6:2D High Speed, 7:3D, 8:Blending, 9:User)"
	1-2		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
			CR_BRIGHT		0 ~ 100	Check Bright Value
	1-3		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
			CR_CONT		0 ~ 100	Check Contrast Value
	1-4		CF_SHARP_%1	0 ~ 4		Set Sharp Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_SHARP		0 ~ 4	Check Sharp Value
	1-5		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
			CR_COLOR		0 ~ 100	Check Color Value
	1-6		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
			CR_TINT		0 ~ 100	Check Tint Value
	1-7		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
			CR_PHASE		0 ~ 100	Check Phase Value
	1-8		CR_FREQ_%1	0 ~ 100		Set Frequency Value (0 ~ 100)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_FREQ		0 ~ 100	Check Frequency Value
	1-9		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
			CR_HPOS		0 ~ 100	Check Horizontal Position Value
	1-10		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
			CR_VPOS		0 ~ 100	Check Vertical Position Value
	1-11-1		CF_3D-MODE_%1	1		Auto
				2		Frame Packing
				3		Side by Side
				4		Top and Bottom
				5		Frame Sequential
				0		Off
			CR_3D-MODE		0 ~ 5	Check 3D Mode setting
	1-11-2		CF_3D-INVERT_%1	0		Off
				1		On
			CR_3D-INVERT		0 ~ 1	Check 3D-Invert setting
	1-11-3		CF_DLPLINK_%1	0		Off
				1		On
			CR_DLPLINK		0 ~ 1	Check DLP-LINK setting
	1-11-4		CF_SYNCOUT_%1	1		To Emitter
				2		To Next Projector
			CR_SYNCOUT		1 ~ 2	Check SYNC OUT setting
	1-11-5		CF_FRAMEDELAY_%1	1~200		Set FRAME DELAY setting (1 ~ 200)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_FRAMEDELAY		1~200	Check FRAME DELAY setting
	1-12-1		CF_CM_%1	0		Off
				1		On
			CR_CM		0 ~ 1	Check HSG Enable setting
	1-12-2		CF_CMAUTOTESTPAT_%1	0		Off
				1		On
			CR_CMAUTOTESTPAT_%1		0 ~ 1	Check Auto Test Pattern setting
	1-12-3		CF_CM_RH_%1	0 ~ 254		Set Red Hue Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_RH		0 ~ 254	Check Red Hue Value
	1-12-4		CF_CM_RS_%1	0 ~ 254		Set Red Hue Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_RS		0 ~ 254	Check Red Saturant Value
	1-12-5		CF_CM_RG_%1	0 ~ 254		Set Red Gain Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_RG		0 ~ 254	Check Red Gain Value
	1-12-6		CF_CM_GH_%1	0 ~ 254		Set Green Hue Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_GH		0 ~ 254	Check Green Hue Value

PICTURE	1-12-7		CF_CM_GS_%1	0 ~ 254		Set Green Saturant Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_GS		0 ~ 254	Check Green Saturant Value
	1-12-8		CF_CM_GG_%1	0 ~ 254		Set Green Gain Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_GG		0 ~ 254	Check Green Gain Value
	1-12-9		CF_CM_BH_%1	0 ~ 254		Set Blue Hue Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_BH		0 ~ 254	Check Blue Hue Value
	1-12-10		CF_CM_BS_%1	0 ~ 254		Set Blue Saturant Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_BS		0 ~ 254	Check Blue Saturant Value
	1-12-11		CF_CM_BG_%1	0 ~ 254		Set Blue Gain Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_BG		0 ~ 254	Check Blue Gain Value
	1-12-12		CF_CM_CH_%1	0 ~ 254		Set Cyan Hue Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_CH		0 ~ 254	Check Cyan Hue Value
	1-12-13		CF_CM_CS_%1	0 ~ 254		Set Cyan Saturant Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_CS		0 ~ 254	Check Cyan Saturant Value
	1-12-14		CF_CM_CG_%1	0 ~ 254		Set Cyan Gain Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_CG		0 ~ 254	Check Cyan Gain Value
	1-12-15		CF_CM_MH_%1	0 ~ 254		Set Magenta Hue Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_MH		0 ~ 254	Check Magenta Hue Value
	1-12-16		CF_CM_MS_%1	0 ~ 254		Set Magenta Saturant Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_MS		0 ~ 254	Check Magenta Saturant Value
	1-12-17		CF_CM_MG_%1	0 ~ 254		Set Magenta Gain Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_MG		0 ~ 254	Check Magenta Gain Value
	1-12-18		CF_CM_YH_%1	0 ~ 254		Set Yellow Hue Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_YH		0 ~ 254	Check Yellow Hue Value
	1-12-19		CF_CM_YS_%1	0 ~ 254		Set Yellow Saturant Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_YS		0 ~ 254	Check Yellow Saturant Value
	1-12-20		CF_CM_YG_%1	0 ~ 254		Set Yellow Gain Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_YG		0 ~ 254	Check Yellow Gain Value
	1-12-21		CF_CM_WH_%1	0 ~ 254		Set White Hue Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_WH		0 ~ 254	Check White Hue Value
	1-12-22		CF_CM_WS_%1	0 ~ 254		Set White Saturant Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_WS		0 ~ 254	Check White Saturant Value
	1-12-23		CF_CM_WG_%1	0 ~ 254		Set White Gain Value (0 ~ 254)
				UP		Increase setting value (+1) from current setting
				DN		Decrease setting value (-1) from current setting
			CR_CM_WG		0 ~ 254	Check White Gain Value
	1-12-24		CF_CMFDEFAULT_RST			Reset the value of HSG setting
	1-13-1		CF_WPEAK_%1	0 ~ 100		Step value size is "10"
				UP		Increase setting value (+10) from current setting
				DN		Decrease setting value (-10) from current setting
			CR_WPEAK		0 ~ 100	Check White Peaking Value
	1-13-2		CF_GAMMA_%1	1		VIdeo
				2		Film
				3		Bright
				4		CRT
				5		DICOM
				6		Gamma2.2
			CR_GAMMA		1 ~ 6	Check Gamma setting
	1-13-3		CF_COLTEMP	1		Warmest
				2		Warm
				3		Cool
				4		Bright
			CR_COLTEMP		1 ~4	Check Color Temp setting
	1-13-4		CF_COLORSPACE_%1	2		RGB
				3		REC709
				4		REC601
				5		RGB Video
				1		Auto
			CR_COLORSPACE		1 ~ 5	Check Color Space setting
	1-13-5-1		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
			CR_GAIN_R		0 ~ 100	Check Red Gain Value
	1-13-5-2		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
			CR_GAIN_G		0 ~ 100	Check Green Gain Value
				000 ~ 100		Set Blue Gain Value (0 ~ 100)

1-13-5-3		CF_GAIN_B_%1	UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_GAIN_B		0 ~ 100	Check Blue Gain Value
1-13-5-4		CF_OFFSET_R_%1	000 ~ 100		Set Red Offset Value (0 ~ 100)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_OFFSET_R		0 ~ 100	Check Red Offset Value
1-13-5-5		CF_OFFSET_G_%1	000 ~ 100		Set Green Offset Value (0 ~ 100)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_OFFSET_G		0 ~ 100	Check Green Offset Value
1-13-5-6		CF_OFFSET_B_%1	000 ~ 100		Set Blue Offset Value (0 ~ 100)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_OFFSET_B		0 ~ 100	Check Blue Offset Value
1-13-5-7		CF_GO_RST			Reset the value of Gain/Offset
1-13-6		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
		CR_CENHANCE		0 ~ 2	Check Color Enhance setting
1-13-7		CF_CWSPEED_%1	1		2X
			2		3X
		CR_CWSPEED		1 ~ 2	Check Color Wheel Speed setting
1-13-8		CF_FMODE_%1	0		Off
			1		On
		CR_FMODE		0 ~ 1	Check Film mode setting
1-13-9		CF_EXBLACK_%1	0		Off
			1		On
		CR_FMODE		0 ~ 1	Check Extreme Black setting
1-13-10		CF_DYNAMICBLACK_%1	0		Off
			1		On
		CR_DYNAMICBLACK		0 ~ 1	Check DynamicBlack™ setting
2-1	C0F	CF_ASPECT_%1	1		Auto
			2		4:3
			3		16:9
			4		16:10
			5		Native
		CR_ASPECT		1 ~ 5	CheckAspect Ratio setting
2-2		CF_OVERSCAN_%1	0		Off
			1		Zoom
			2		Crop
		CR_OVERSCAN		0 ~ 2	Check Overscan setting
2-3		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
		CR_DZOOM_H		50 ~ 400	Check H Digital Zoom value
2-4		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
				50 ~ 400	Check V Digital Zoom value
2-5		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
		CR_DSHIFT_H		0 ~ 100	Check H Digital Shift value
2-6		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
		CR_DSHIFT_V		0 ~ 100	Check V Digital Shift value
2-7-1		CF_PCMODE_%1	0		Off
			1		On
		CR_PCMODE		0~1	Check PC Mode setting
2-7-2		CF_KYSTN_H_%1	0 ~ 200		Set H Keystone Value (0 ~ 40)
	C90		UP		Increase setting value (+1) from current setting
	C91		DN		Decrease setting value (-1) from current setting
		CR_KYSTN_H			Check H Keystone value
2-7-3		CF_KYSTN_V_%1	0 ~ 200		Set V Keystone Value (0 ~ 40)
	C8E		UP		Increase setting value (+1) from current setting
	C8F		DN		Decrease setting value (-1) from current setting
		CR_KYSTN_V			Check V Keystone value
2-7-4		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
		CR_WARP_PB_H			Check H Pincushion value
2-7-5		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
		CR_WARP_PB_V			Check V Pincushion value
2-7-6-1		CF_WARP_TLC_X_%1	0 ~ 120		Set Top Left Corner X Value (0 ~ 120)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_WARP_TLC_X		0 ~ 120	Check Top Left Corner X Value setting
2-7-6-2		CF_WARP_TLC_Y_%1	0 ~ 80		Set Top Left Corner Y Value (0 ~ 80)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_WARP_TLC_Y		0 ~ 80	Check Top Left Corner Y Value setting
2-7-6-3		CF_WARP_TRC_X_%1	0 ~ 120		Set Top Right Corner X Value (0 ~ 120)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_WARP_TRC_X		0 ~ 120	Check Top Right Corner X Value setting
2-7-6-4		CF_WARP_TRC_Y_%1	0 ~ 80		Set Top Right Corner Y Value (0 ~ 80)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_WARP_TRC_Y		0 ~ 80	Check Top Right Corner Y Value setting
2-7-6-5		CF_WARP_BLC_X_%1	0 ~ 120		Set Bottom Left Corner X Value (0 ~ 120)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_WARP_BLC_X		0 ~ 120	Check Bottom Left Corner X Value setting
2-7-6-6		CF_WARP_BLC_Y_%1	0 ~ 80		Set Bottom Left Corner Y Value (0 ~ 80)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting

OUTPUT

		CR_WARP_BLC_Y		0 ~ 80	Check Bottom Left Corner Y Value setting
2-7-6-7		CF_WARP_BRC_X_%1	0 ~ 120		Set Bottom Right Corner X Value (0 ~ 120)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_WARP_BRC_X		0 ~ 120	Check Bottom Right Corner X Value setting
2-7-6-8		CF_WARP_BRC_Y_%1	0 ~ 80		Set Bottom Right Corner Y Value (0 ~ 80)
			UP		Increase setting value (+1) from current setting
			DN		Decrease setting value (-1) from current setting
		CR_WARP_BRC_Y		0 ~ 80	Check Bottom Right Corner Y Value setting
2-7-7		CF_WARP_RESET			Reset the Keystone / 4-Corner value
2-8-1		CF_PIPMODE_%1	0		Off
			1		On
		CR_PIPMODE			Check PIP/PBP Enable setting
2-8-2	C05	CF_PIPMAININP_%1	1		VGA
	C36		2		HDMI
	C52		3		DVI-D
	C38		4		HDBaseT
	C08		5		LAN
	C55		6		3G-SDI
	CR1	CR_PIPMAININP		1 ~ 6	Check Main Source setting
2-8-3		CF_PIPSUBINP_%1	1		VGA
			2		HDMI
			3		DVI-D
			4		HDBaseT
			5		LAN
			6		3G-SDI
		CR_PIPSUBINP		1 ~6	Check Sub Source setting
2-8-4		CF_PIPSWAP			Execute PIP/PBP Swap
2-8-5		CF_PIPSIZESUB_%1	1		Small
			2		Medium
			3		Large
		CR_PIPSIZESUB		1 ~ 3	Check PIP Size setting
2-8-6		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
		CR_PIPPOSITION		1 ~ 13	Check Layout setting
3-1		CF_LANG_%1	ENG		English
			FRA		French
			ESP		Spanish
			DEU		German
			ITA		Italian
			RUS		Russian
			SCH		Chinese Simpified
			JPN		Japanese
			KOR		Korean
			POR		Portuguese
			INA		Indonesian
			NED		Dutch
			ARA		Arabic
		CR_LANG		ENG, FRA, ….	Check Language setting
3-2		CF_CEIL_%1	0		Off
			1		On
			2		Auto
		CR_CEIL		0 ~ 2	Check Ceiling setting
3-3		CF_REAR_%1	0		Off
			1		On
		CR_REAR		0 ~ 1	Check Rear setting
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				Execute Lens Calibration
3-4-5		CF_LENSLOCK_%1	0		No
			1		Yes
		CR_LENSLOCK	0 ~ 1		Check Lens Lock setting
3-5-1		CF_MENUTRANS_%1	0 ~ 9		Set Menu Transparency value (0 ~ 9)
		CR_MENUTRANS		0 ~ 9	Check Menu Transparency setting
3-5-2		CF_DISP_%1	0		Off
			1		On
		CR_DISP		0 ~ 1	Check Show Messages setting
3-6		CF_KEYLIGHT_%1	0		Off
			1		On
		CR_KEYLIGHT		0 ~ 1	CheckKey Light setting
SETUP 3-7-1		CF_PJPINCODE_%1	00000 ~ 99999		Execute PIN Protect with code. (PIN Protect function is toggled.)
3-7-2		CF_PJPINCODECHANGE_%1_%2	%1= Old PIN %2= New PIN (00000 ~ 99999)		Change PIN CODE setting (%1 = Current PIN Code, %2 = New PIN Code)
3-8-1-1		CF_DHCP_%1	0		Off
			1		On
		CR_DHCP		0 ~ 1	Check LAN DHCP setting
3-8-2-2		CF_IPADDRESS_%1	xxx.xxx.xxx.xxx		Set LAN IP Address
		CR_IPADDRESS		xxx.xxx.xxx.xxx	Check LAN IP Address setting

	3-8-2-3		CF_SUBNET_%1	xxx.xxx.xxx.xxx		Set LAN Subnet setting
			CR_SUBNET		xxx.xxx.xxx.xxx	Check LAN Subnet setting
	3-8-2-4		CF_GATEWAY_%1	xxx.xxx.xxx.xxx		Set LAN Gateway setting
			CR_GATEWAY		xxx.xxx.xxx.xxx	Check LAN Gateway setting
	3-8-2-5		CR_MACADDRESS		xx-xx-xx-xx-xx-xx	Check LAN MAC Adress setting
	3-8-2-6		CF_LANSETAPPLY			Save LAN setting
	3-8-3-1		CF_WLAN_%1			Set WLAN Enable
	3-8-3-2		CF_WLAN_STARTIP_%1	xxx.xxx.xxx.xxx		Set WLAN Start IP Address
			CR_WLAN_STARTIP		xxx.xxx.xxx.xxx	Check WLAN Start IP Address setting
	3-8-3-3		CF_WLAN_ENDIP_%1	xxx.xxx.xxx.xxx		Set WLAN End IP Address
			CR_WLAN_ENDIP		xxx.xxx.xxx.xxx	Check WLAN End IP Address setting
	3-8-3-4		CF_WLAN_SUBNET_%1	xxx.xxx.xxx.xxx		Set WLAN Subnet setting
			CR_WLAN_SUBNET		xxx.xxx.xxx.xxx	Check WLAN Subnet setting
	3-8-3-5		CF_WLAN_GATEWAY_%1	xxx.xxx.xxx.xxx		Set WLAN Gateway setting
			CR_WLAN_GATEWAY		xxx.xxx.xxx.xxx	Check WLAN Gateway setting
	3-8-3-6		CR_WLAN_MACADDRESS		xx-xx-xx-xx-xx-xx	Check WLAN MAC Adress setting
	3-8-3-7		CR_WLAN_SSID			Check WLAN SSID setting
	3-8-4-1		CR_NET_PJNAME			Check Network PJ Name setting
	3-8-4-2		CF_NET_RESET			Restart Network
	3-8-4-3		CF_NET_FACTORY_RESET			Factory Reset Network setting
	3-8-5		CF_BAUDRATE_%1	1		9600
				2		14400
				3		19200
				4		38400
				5		57600
				6		115200
			CR_BAUDRATE		1 ~ 6	Check Serial Port Baud Rate setting
	3-8-6		CF_SERIALPATH_%1	1		RS232
				2		HDBaseT
			CR_SERIALPATH		1 ~ 2	Check Serial Port Path setting
	3-8-7		CF_PJIRADDRESS_%1	0 ~ 9		Set Projector Address
			CR_PJIRADDRESS		0 ~ 9	Check Projector Address setting
	3-8-8-1		CF_IRFRONT_%1	0		Off
				1		On
			CR_IRFRONT		0 ~ 1	Check Front IR setting
	3-8-8-2		CF_IRTOP_%1	0		Off
				1		On
			CR_IRTOP		0 ~ 1	Check Top IR setting
	3-8-8-3		CF_IRHDBT_%1	0		Off
				1		On
			CR_IRHDBT		0 ~ 1	Check HDBase-T IR setting
	4-1		CF_AUTOSRC_%1	0		Off
				1		On
			CR_AUTOSRC		0 ~ 1	Check Auto Source setting
	4-2		CF_ALTITUDE_%1	0		Off
				1		On
			CR_ALTITUDE		0 ~ 1	Check High Altitude setting
	4-3		CF_TESTPAT_%1	0		Off
				1		Grid
				2		Red
				3		Green
				4		Blue
				5		Yellow
				6		Magenta
				7		Cyan
				8		White
				9		Black
			CR_TESTPAT		0 ~ 9	Check Test Pattern setting
	4-4		CF_BACKGND_%1	1		Logo
				2		Blue
				3		Black
				4		White
			CR_BACKGND		1 ~ 4	Check Background color setting
	4-5		CF_HOTKEY_%1	1		Blank Screen
				2		Aspect Ratio
				3		Freeze Screen
				4		Overscan
			CR_HOTKEY		1 ~ 4	Check Hot-Key setting
	4-6-1		CF_ECONETWORK_%1	1	0	0.5W mode
				0		Communication mode
			CR_ECONETWORK		0 ~ 1	Check Stand-by Network setting
	4-6-2	C29	CF_AUTOPOWERON	0		Off
		C28		1		On
			CR_AUTOPOWERON		0 ~ 1	Check Direct Power On setting
	4-6-3		CF_AUTOPOWEROFF_%1	0		No
				1		5 Mins
				2		10 Mins
				3		15 Mins
				4		20 Mins
				5		25 Mins
				6		30 Mins
OPTION			CR_AUTOPOWEROFF		0 ~ 6	Check Auto Power Off setting
	4-6-4		CF_SLEEP_%1	0		No
				1		2 Hours
				2		4 Hours
				3		6 Hours
			CR_SLEEP		0 ~ 3	Check Sleep Timer setting
	4-7-1		CF_AUTOLAMPCONTROL_%1	2		Constant Power
				3		Constant Luminance
				1		Eco Mode
			CR_AUTOLAMPCONTROL		0~2	Check Light Source Mode setting
	4-7-2		CF_LAMPPOWER_%1			Set Constant Power Settings Value (0 ~ 99)
			CR_LAMPPOWER		0~99	Check Constant Power Settings Value
	4-7-3		CR_PJTIME			Set Constant Luminance Settings Value (0 ~ 99)
	4-8		CF_LIGHTSENSCALI	1		Check Constant Luminance Settings Value
				2		Check Total Projector Hours
				3		Execute Light Sensor Calibration
			CR_LIGHTSENSCALI		0~2	Check Light Senor Calibration is done 0 = No 1 = Yes

	4-9-1		CR_MODELNAME			Check Model Name
	4-9-2		CR_SERIALNO			Check Serial Number
	4-9-3		CR_NRESOLUTION			Check Native Resolution
	4-9-4		CR_SWVER			Check Software Version
	4-9-5	CR1				Check Main Input source
	4-9-6		CR_RESOLUTION			Check Main Resolution
	4-9-7		CR_SYSTEM			Check Main Signal Format
	4-9-8		CR_PIXELCLK			Check Main Pixel Clock
	4-9-9		CR_REFRESH		%1 %2 (%1 = H freq. %2 = V freq.)	Check Main H/V Refresh Rate
	4-9-10					
	4-9-11		CR_PIPSUBINP			Check Sub Input source
	4-9-12		CR_SUB_RESOLUTION			Check Sub Resolution
	4-9-13		CR_SUB_SYSTEM			Check Sub Signal Format
	4-9-14		CR_SUB_PIXELCLK			Check Sub Pixel Clock
	4-9-15		CR_SUB_REFRESH		%1 %2 (%1 = H freq. %2 = V freq.)	Check Sub H/V Refresh Rate
	4-9-16					
	4-9-17		CR_AUTOLAMPCONTROL			Check Light Source Mode
	4-9-18		CR_PJTIME			Check Total Projector Hours
	4-9-19		CR_ECONETWORK			Check Stand-by Network setting
	4-9-20		CR_IPADDRESS			Check LAN IP Address setting
	4-9-21		CR_DHCP			Check LAN DHCP setting
	4-9-22		CF_FACTORY_RESET			Execute Factory Reset

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

Remote Control Button	B-1	C00				Power ON
	B-2	C02				POWER OFF
	B-3		CF_KYBTN1			1
	B-4		CF_KYBTN2			2
	B-5		CF_KYBTN3			3
	B-6		CF_KYBTN4			4
	B-7		CF_KYBTN5			5
	B-8		CF_KYBTN6			6
	B-9		CF_KYBTN7			7
	B-10		CF_KYBTN8			8
	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)
	B-41		CF_KYHOTKEY			Hot Key
	B-42		CF_KYTESTPAT			Pattern