ES-LU25KLZ   RS232 Command List

1. Connection	
1.1 Port Setting	
Method	Asynchronous communication
Bits per seconds	19200
Data bits	8
Parity	none
Stop bits	1
Flow control	none
1.2 Wiring	
Connect the computer and projector with RS232 cross cable	

2. Communication
2.1 The Projector command is defined one command/one line that starts "C" and ends carriage return CR .
2.2 There are two types of command, functional execution commands and status read commands
2.3 Response for status read command after accepting has different characters.
Example:
A.   Functional execution command:
Power ON command is sent to the projector with "C00" CR, the projector returns a *ACK CR or NAK CR code
PC --> Projector "C" "0" "0" CR
Projector --> PC   processing command   ACK (or NAK) CR
B.   Status read command:
Power Status command is sent to the projector with "CR0" CR, the projector returns a power status plus CR or NAK CR code
PC --> Projector "C" "R" "0" CR
Projector --> PC   processing command   "0" "0" "0" (or NAK) CR

3. Command List	
Command (HEX+CR)	**Function**
C00(43 30 30 0D)	POWER ON
C01(43 30 31 0D)	POWER OFF(Power OFF immediately)
C02(43 30 32 0D)	POWER OFF
C05(43 30 35 0D)	VGA IN 1
C37(43 33 37 0D)	HDMI 2
C35(43 33 35 0D)	SDI
C38(43 33 38 0D)	HDBaseT
C32(43 33 32 0D)	DVI
C36(43 33 36 0D)	HDMI 1
C15(43 31 35 0D)	NETWORK
C16(43 31 36 0D)	MEMORY VIEWER
C17(43 31 37 0D)	USB DISPLAY
C8E(43 38 45 0D)	Keystone ↑

C8F(43 38 46 0D)	Keystone ↓
C90(43 39 30 0D)	Keystone →
C91(43 39 31 0D)	Keystone ←
C98(43 39 38 0D)	Keystone Corner
C99(43 39 39 0D)	Keystone Barrel

C1C(43 31 43 0D)	Menu on
C1D(43 31 44 0D)	Menu off
C43(43 34 33 0D)	Still on
C44(43 34 34 00)	Still off
C0D(43 30 44 00)	Blank on
C0E(43 30 45 0D)	Blank off
C8A(43 38 41 0D)	Timer
C8B(43 38 42 0D)	Timer (Exit)
C46(43 34 36 0D)	ZOOM+
C47(43 34 37 0D)	ZOOM-
C30(43 33 30 0D)	Digital zoom +
C31(43 33 31 0D)	Digital zoom -
C4A(43 34 41 0D)	FOCUS UP
C4B(43 34 42 0D)	FOCUS DOWN
C4C(43 34 43 0D)	FOCUS LEFT
C4D(43 34 44 0D)	FOCUS RIGHT
C5D(43 35 44 0D)	LENS SHIFT UP
C5E(43 35 45 0D)	LENS SHIFT DOWN
C5F(43 35 46 0D)	LENS SHIFT LEFT
C60(43 36 30 0D)	LENS SHIFT RIGHT
CEE(43 45 45 0D)	LENS CALIBRATION
CEF(43 45 46 0D)	AUTO LENSSHIFT CENTER
C19(43 31 39 0D)	Image / Dynamic
C11(43 31 31 0D)	Image / Standard
C39(43 33 39 0D)	Image / Colorboard
C13(43 31 33 0D)	Image / Cinema
C18(43 31 38 00)	Image / Blackboard
C14(43 31 34 0D)	Image / User
C0F(43 30 46 0D)	Screen Normal size
C10(43 31 30 0D)	Screen Wide size
C1E(43 31 45 0D)	DISPLAY CLEAR
C20(43 32 30 0D)	BRIGHTNESS +
C21(43 32 31 0D)	BRIGHTNESS -
C27(43 32 37 0D)	IMAGE (Toggle)
C28(43 32 38 0D)	Direct on Enable
C29(43 32 39 0D)	Direct on Disable
C2A(43 32 41 0D)	Power Management Ready
C2B(43 32 42 0D)	Power Management OFF
C2E(43 32 45 0D)	Power Management Shut down
C3A(43 33 41 0D)	POINTER RIGHT
C3B(43 33 42 0D)	POINTER LEFT
C3C(43 33 43 0D)	POINTER UP
C3D(43 33 44 0D)	POINTER DOWN
C3F(43 33 46 0D)	ENTER
C89(43 38 39 0D)	Auto PC ADJ.
CR3(43 52 33 0D)	Light source Timer Read

CR0(43 52 30 0D)	Get the projector's operation status:
	"00":Power on
	"80":standby
	"40":Countdown in process
	"20":Cooling Down in process
	"10":Power Failure
	"28-0":TEMP Sensor A cooling down in process due to Temperature Anomaly "28-1":TEMP Sensor B cooling down in process due to Temperature Anomaly "28-2":TEMP Sensor C cooling down in process due to Temperature Anomaly "28-3":TEMP Sensor D cooling down in process due to Temperature Anomaly "88-0":Standby after Temp sensor A Cooling Down due to lamp off caused temperature abnormal. "88-1":Standby after Temp sensor B Cooling Down due to lamp off caused temperature abnormal. "88-2":Standby after Temp sensor C Cooling Down due to lamp off caused temperature abnormal. "88-3":Standby after Temp sensor D Cooling Down due to lamp off caused temperature abnormal.
	"24":Power Management cooling
	"04":suspend status（Power management Ready）
	"21":Cooling Down in process after lamp off
	"81":Standby after Cooling Down process due to lamp off
CR1(43 52 31 0D)	Get the information of input source
	VGA 1
	HDMI 1
	HDMI 2
	HDBASET
	DVI
	Memory Viewer
	Network
	USB display
CR4(43 52 34 00)	Get screen setting status:
	"11":Normal screen setting
	"10":Rear & Ceiling ON
	"01": Rear ON
	"00":Ceiling ON
	"20": Auto Ceiling and Rear ON
	"21": Auto Ceiling and Rear OFF
CR6(43 52 36 0D)	Get the temperature data inside the projector:
	"%1_%2_%3_%4":
	%1=Temperature of Sensor 1
	%2=Temperature of Sensor 2
	%3=Temperature of Sensor 3
	%4=Temperature of Sensor 4
	Temperature data is shown as "00.0"
CR7(43 52 37 0D)	Get the lamp mode status:
	"00" Light is out
	"01" Light is on

CR ALLPFAIL	Detect detail of the power failure
	000 MAIN, ALL OK
	000 FAN-1, 3.3V OK
	000 FAN-2, 3.3V OK
	000 FAN-3, 3.3V OK
	000 FAN-4, 3.3V OK
	000 FAN-5, 3.3V OK
	000 FAN-6, 3.3V OK
	000 FAN-7, 3.3V OK
	000 FAN-8, 3.3V OK
	000 FAN-9, 3.3V OK
	000 FAN-10, 3.3V OK
	000 FAN-11, 3.3V OK
	000 FAN-12, 3.3V OK
	000 FAN-13, 3.3V OK
	000 LENS, ALL OK
	000 CW, ALL OK