

## RS232串口控制命令集\_3LCD平台

<b>1. Connection</b>	
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	
<b>2. Communication</b>	
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:	
<b>Power Status</b> command is sent to the projector with “CRO” 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
<b>3. Command List</b>		
	<b>Command (HEX+CR)</b>	<b>Function</b>
	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 1
	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
	C37(43 33 38 0D)	HDMI 2
	C32(43 33 32 1D)	DLNA
	C38(43 33 37 0D)	HDMI 3
	C35(43 33 35 0D)	HDMI 4
	C32(43 33 32 0D)	DVI
	C8E(43 38 45 0D)	Keystone ↑
	C8F(43 31 31 0D)	Keystone ↓
	C1C(43 31 43 0D)	Menu on

C1D(43 31 44 0D)	Menu off
C90(43 39 30 0D)	Keystone Right
C91(43 39 31 0D)	Keystone Left
C98(43 39 38 0D)	Keystone Corner
C99(43 39 39 0D)	Keystone Barrel
C9A(43 39 3A 0D)	Keystone PB_W
C43(43 34 33 0D)	Still on
C44(43 34 34 0D)	Still off
C0D(43 30 44 0D)	Blank on
C0E(43 30 45 0D)	Blank off
C8A(43 38 41 0D)	Timer
C8B(43 38 42 0D)	Timer (Exit)
C30(43 33 30 0D)	Digital zoom +
C31(43 33 31 0D)	Digital zoom -
C19(43 31 39 0D)	Dynamic
C11(43 31 31 0D)	Standard
C13(43 31 33 0D)	Cinema
C18(43 31 38 0D)	Blackboard
C39(43 33 39 0D)	Colorboard
C14(43 31 34 0D)	User Image
C46(43 34 36 0D)	ZOOM +
C47(43 34 37 0D)	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 LENS SHIFT CENTER
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 Timer Read
CRO(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":TEMPA Cooling Down in process due to Temperature Anomaly "28-1":TEMPB Cooling Down in process due to Temperature Anomaly "28-2": TEMPC Cooling Down in process due to Temperature Anomaly
	"88-0":Standby after TempA Cooling Down process due to lamp off "88-1":Standby after Temp B Cooling Down process due to lamp off "88-2":Standby after Temp C Cooling Down process due to lamp off
	"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
	CRI(43 52 31 0D)
VGA 1	
HDMI 1	
HDMI 2	
HDMI 3	
HDMI 4	

	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 & Rear ON
	"21":Auto Ceiling & Rear OFF
CR6(43 52 36 0D)	Get the temperature data inside the projector:
	"%1_%2_%3" :
	%1=Temperature of Sensor 1
	%2=Temperature of Sensor 2
	%3=Temperature of Sensor 3
	Temperature data is shown as "00.0"
CR7(43 52 37 0D)	Get the Light 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