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RS232 Codes

ProjectoWrite

by BOXLIGHT



Boxlight Projector RS232 Communication Format

1. Communication Protocol

Standard Baud rate: 9600 bps
 Data length: 8 bits
 Parity: None
 Stop bit: 1 bit
 Flow Control: None

2. RS232 Cable Definition for MP63E/60E /605E Projector

(PC side)	(Projector side with D sub – pin)
RX 2	2 TX
TX 3	3 RX
GND 5	5 GND

3. RS232 Cable Definition for (BEACON/CP720e/CP755EW,ProjectoWrite etc) Projectors

(PC side)	(Projector side with Mini-Din 8 pin Plug)
RX 2	5 TX
TX 3	3 RX
GND 5	4, 8 GND



TYPE1 CODE :

Example: Power ON command is sent to the projector with a CR, the projector returns a "15" or "68D" code

Command (ASCII)

PC			C	0	0	CR											
Projector							Processing Command	1	5								

TYPE2 CODE :

Command (ASCII)

PC		P	W	R	O	N											
Projector							Processing Command	6	8		D						

5.Command List

TYPE1 CODE:

Example: Power ON command is sent to the projector with a CR, the projector returns a "15" or "68D" code

Command (ASCII)

PC			C	0	0	CR											
Projector							Processing Command	1	5								

TYPE2 CODE:

Command (ASCII)

PC		P	W	R	O	N											
Projector							Processing Command	6	8		D						

6.Command List

TYPE1 Command (HEX+CR)	TYPE2 Command	Function	Remarks
C00(43 30 30 0D)	PWRON	POWER ON	
C01(43 30 31 0D)	PWROFF	POWER OFF	
C02(43 30 32 0D)	INRGB1	COMPUTER1	Select Source
C04(43 30 34 0D)	INRGB2	COMPUTER2	

C03(43 30 33 0D)	INYPBPR	YPBPR	
C05(43 30 35 0D)	INDVI	DVI	
C06(43 30 36 0D)	INVIDEO	VIDEO	
C07(43 30 37 0D)	INSVIDEO	S-VIDEO	
C08(43 30 38 0D)	INYCBCR/INWIFIRGB2	COMPONENT	
C09(43 30 39 0D)	FUVOL+	VOLUME +	
C0A(43 30 40 0D)	FUVOL-	VOLUME -	
C1D(43 31 44 0D)	FUMENU	MENU	
C30(43 33 30 0D)	FUUP	UP	Cursor
C31(43 33 31 0D)	FUDOWN	DOWN	
C32(43 33 32 0D)	FULEFT	LEFT	
C33(43 33 33 0D)	FURIGHT	RIGHT	
C34(43 33 34 0D)	FUMUTE	MUTE	
C43(43 34 33 0D)		FREEZE	
C80(43 38 30 0D)		ZOOM+	
C81(43 38 31 0D)		ZOOM-	
C90(43 39 33 0D)	FUESC	ESC	
C91(43 39 31 0D)		SOURCE	
C92(43 39 32 0D)	FUAUTO	AUTO	
C93(43 39 33 0D)		CONTRAST+	
C94(43 39 34 0D)		CONTRAST-	
C95(43 39 35 0D)		BRIGHTNESS+	
C96(43 39 36 0D)		BRIGHTNESS-	
C97(43 39 37 0D)	FUBLANK	BLANK	
C98(43 39 38 0D)		KEYSTONE+	
C99(43 39 39 0D)		KEYSTONE-	
CR0(43 52 30 0D)		POWER-STATUS	STATUS feedback "000" - projector is on "800" - projector is standby "200" - projector is cooling down "500" - projector is warm up
CR1(43 52 31 0D)		SOURCE-STATUS	"001" - COMPUTER1 "002" - DVI "003" - COMPUTER2 "010" - VIDEO "020" - S-VIDEO "040" - COMPONENT "004" - YpbPr "005" - WIFI
CR2(43 52 32 0D)		LAMP-TIMER-STATUS	"xxxxHrs xxxMins" - Lamp time
	TRL	TIMER-STATUS	"HHHH" - Lamp time hours