

**UART Connection settings**

Baud Rate : 19200  
Data Bits : 8  
Parity : None  
Stop Bits : 1

**PC side with D-sub 9pin female) (Projector side with D-sub 9pin female)**

RX 2 · 2 RX  
TX 3 · 3 TX  
GND 5 · 5 GND

**Control command syntax**  
[Header][Msg ID][Command][Space][Value]

Note : There is a <CR> after all ASCII commands, 0x0D is <CR> in ASCII code

**Control command example : Power On**  
#0000 1 (ASCII Code)  
23 30 30 30 30 20 31 0D (Hex Code)

**Projector Return**  
Pass : P  
Fail : F

Command Type	Command Description	ASCII		Hex		ASCII Code				Read / Write	Projector Return
		Header	Msg ID	Command	Space	Value	Header	Msg ID	Command		
IR / Keypad	Power ON	#0000	0(CR)	23 30 30 30 30 20 31 0D	#	00	00		0 - 1	Write	
IR / Keypad	Power OFF	#0000	1(CR)	23 30 30 30 30 20 30 OD							
IR / Keypad	Emulate Remote - UP	#0001	1(CR)	23 30 30 30 31 20 31 OD	#	00	01		1 - 10	Write	
IR / Keypad	Emulate Remote - LEFT	#0001	2(CR)	23 30 30 30 31 20 32 OD							
IR / Keypad	Emulate Remote - RIGHT	#0001	3(CR)	23 30 30 30 31 20 33 OD							
IR / Keypad	Emulate Remote - DOWN	#0001	4(CR)	23 30 30 30 31 20 34 OD							
IR / Keypad	Emulate Remote - MENU	#0001	5(CR)	23 30 30 30 31 20 35 OD							
IR / Keypad	Emulate Remote - SOURCE	#0001	6(CR)	23 30 30 30 31 20 36 OD							
IR / Keypad	Emulate Remote - KEYSTONE+	#0001	7(CR)	23 30 30 30 31 20 37 OD							
IR / Keypad	Emulate Remote - KEYSTONE-	#0001	8(CR)	23 30 30 30 31 20 38 OD							
IR / Keypad	Emulate Remote - VOLUME+	#0001	9(CR)	23 30 30 30 31 20 39 OD							
IR / Keypad	Emulate Remote - VOLUME-	#0001	10(CR)	23 30 30 30 31 20 30 OD							
IR / Keypad	Resync	#0002	1(CR)	23 30 30 30 32 20 31 OD	#	00	02		1	Write	
IR / Keypad	AV Mute (Blank) - OFF	#0003	0(CR)	32 30 30 30 33 20 30 OD	#	00	03		0 - 1	Write	
IR / Keypad	AV Mute (Blank) - ON	#0003	1(CR)	23 30 30 30 33 20 31 OD							
IR / Keypad	Freeze - OFF	#0004	0(CR)	23 30 30 30 34 20 30 OD	#	00	04		0 - 1	Write	
IR / Keypad	freeze - ON	#0004	1(CR)	23 30 30 30 34 20 31 OD							
IR / Keypad	Input Source - VGA 1	#0005	1(CR)	23 30 30 30 35 20 31 OD	#	00	05		1 - 6	Write	
IR / Keypad	Input Source - VGA 2	#0005	2(CR)	23 30 30 30 35 20 32 OD							
IR / Keypad	Input Source - HDMI 1	#0005	3(CR)	23 30 30 30 35 20 33 OD							
IR / Keypad	Input Source - HDMI 2	#0005	4(CR)	23 30 30 30 35 20 34 OD							
IR / Keypad	Input Source - VIDEO	#0005	5(CR)	23 30 30 30 35 20 35 OD							
IR / Keypad	Input Source - MULTIMEDIA	#0005	6(CR)	23 30 30 30 35 20 36 OD							
Picture	Color Mode - BRIGHT	#0010	1(CR)	23 30 30 31 30 20 31 OD	#	00	10		1 - 5	Write	
Picture	Color Mode - PC	#0010	2(CR)	23 30 30 31 30 20 32 OD							
Picture	Color Mode - MOVIE	#0010	3(CR)	23 30 30 31 30 20 33 OD							
Picture	Color Mode - GAME	#0010	4(CR)	23 30 30 31 30 20 34 OD							
Picture	Color Mode - USER	#0010	5(CR)	23 30 30 31 30 20 34 OD							
Picture	Brightness	#0011	<0-100>(CR)	23 30 30 31 31 20 <variable> OD	#	00	11		0 - 100	Write	
Picture	Contrast	#0012	<0-100>(CR)	23 30 30 31 32 20 <variable> OD	#	00	12		0 - 100	Write	
Picture	Sharpness	#0013	<0-100>(CR)	23 30 30 31 33 20 <variable> OD	#	00	13		0 - 31	Write	
Screen	Aspect Ratio - Auto	#0020	1(CR)	23 30 3032 30 20 31 OD	#	00	20		1 - 4	Write	
Screen	Aspect Ratio - 4:3	#0020	2(CR)	23 30 30 32 30 20 32 OD							
Screen	Aspect Ratio - 16:9	#0020	3(CR)	23 30 30 32 30 20 33 OD							
Screen	Aspect Ratio - 16:10 Ultra Wide	#0020	4(CR)	23 30 30 32 30 20 34 OD							
Screen	Zoom - ZOOM -	#0021	0(CR)	23 30 30 32 31 20 30 OD	#	00	21		0 - 1	Write	
Screen	Zoom - ZOOM +	#0021	1(CR)	23 30 30 32 31 20 31 OD							
Screen	Keystone	#0022	<-40 - 40>(CR)	23 30 30 32 32 20 <variable> OD	#	00	22		-40 - 40	Write	
Screen	Projection Mode - FRONT	#0023	1(CR)	23 30 30 32 33 20 31 OD	#	00	23		1 - 4	Write	
Screen	Projection Mode - REAR	#0023	2(CR)	23 30 30 32 33 20 32 OD							
Screen	Projection Mode - FRONT CEILING	#0023	3(CR)	23 30 30 32 33 20 33 OD							
Screen	Projection Mode - REAR CEILING	#0023	4(CR)	23 30 30 32 33 20 34 OD							
Setting	Language - ENGLISH	#0030	1(CR)	23 30 30 33 30 20 31 OD	#	00	30		1 - 18	Write	
Setting	Language - GERMAN	#0030	2(CR)	23 30 30 33 30 20 32 OD							
Setting	Language - SWEDISH	#0030	3(CR)	23 30 30 33 30 20 33 OD							
Setting	Language - FRENCH	#0030	4(CR)	23 30 30 33 30 20 34 OD							
Setting	Language - ARABIC	#0030	5(CR)	23 30 30 33 30 20 35 OD							
Setting	Language - DUTCH	#0030	6(CR)	23 30 30 33 30 20 36 OD							
Setting	Language - NORWEGIAN	#0030	7(CR)	23 30 30 33 30 20 37 OD							
Setting	Language - DANISH	#0030	8(CR)	23 30 30 33 30 20 38 OD							
Setting	Language - SIMPLIFIED CHINESE	#0030	9(CR)	23 30 30 33 30 20 39 OD							
Setting	Language - POLISH	#0030	10(CR)	23 30 30 33 30 20 31 30 OD							
Setting	Language - KOREAN	#0030	11(CR)	23 30 30 33 30 20 31 31 OD							
Setting	Language - RUSSIAN	#0030	12(CR)	23 30 30 33 30 20 31 32 OD							
Setting	Language - SPANISH	#0030	13(CR)	23 30 30 33 30 20 31 33 OD							
Setting	Language - TRADITIONAL CHINESE	#0030	14(CR)	23 30 30 33 30 20 31 34 OD							
Setting	Language - ITALIAN	#0030	15(CR)	23 30 30 33 30 20 31 35 OD							
Setting	Language - PORTUGUESE	#0030	16(CR)	23 30 30 33 30 20 31 36 OD							
Setting	Language - TURKISH	#0030	17(CR)	23 30 30 33 30 20 31 37 OD							
Setting	Language - JAPANESE	#0030	18(CR)	23 30 30 33 30 20 31 38 OD							
Setting	Menu Location - TOP LEFT	#0031	1(CR)	23 30 30 33 31 20 31 OD	#	00	31		1 - 5	Write	
Setting	Menu Location - TOP RIGHT	#0031	2(CR)	23 30 30 33 31 20 32 OD							
Setting	Menu Location - CENTER	#0031	3(CR)	23 30 30 33 31 20 33 OD							
Setting	Menu Location	#0031	4(CR)	23 30 30 33 31 20 34 OD							
Setting	Menu Location	#0031	5(CR)	23 30 30 33 31 20 35 OD							
Setting	Reset	#0032	1(CR)	23 30 30 33 32 20 31 OD	#	00	32		1	Write	
Volume	Mute - OFF	#0040	0(CR)	23 30 30 34 30 20 30 OD	#	00	40		0 - 1	Write	
Volume	Mute - ON	#0040	1(CR)	23 30 30 34 30 20 31 OD							
Volume	Volume	#0041	<0-30>(CR)	23 30 30 34 31 20 <variable> OD	#	00	41		0 - 30	Write	
Volume	Microphone Volume	#0042	<0-30>(CR)	23 30 30 34 32 20 <variable> OD	#	00	42		0 - 30	Write	
Options	Auto Power Off - Timer setting	#0050	<0-120>(CR)	23 30 30 35 30 20 <variable> OD	#	00	50		0 - 120	Write	
Options	High Altitude - OFF	#0051	0(CR)	23 30 30 35 31 20 30 OD	#	00	51		0 - 1	Write	
Options	High Altitude - ON	#0051	1(CR)	23 30 30 35 31 20 31 OD							
Status Data Queries											
Picture	Color Mode Read	#00110	1(CR)	23 30 30 31 31 30 20 31 OD	#	00	110		1	Read	Okn
Screen	Aspect Ratio Read	#00120	1(CR)	23 30 30 31 31 30 20 31 OD	#	00	120		1	Read	Okn
Options	Input Source (curr. src)	#00160	1(CR)	23 30 30 31 36 30 20 31 OD	#	00	160		1	Read	Okn
Options	Software Version	#00161	1(CR)	23 30 30 31 36 31 20 31 OD	#	00	161		1	Read	Okddd
Options	Information	#00162	1(CR)	23 30 30 31 36 32 20 31 OD	#	00	162		1	Read	Okabbbccdddee