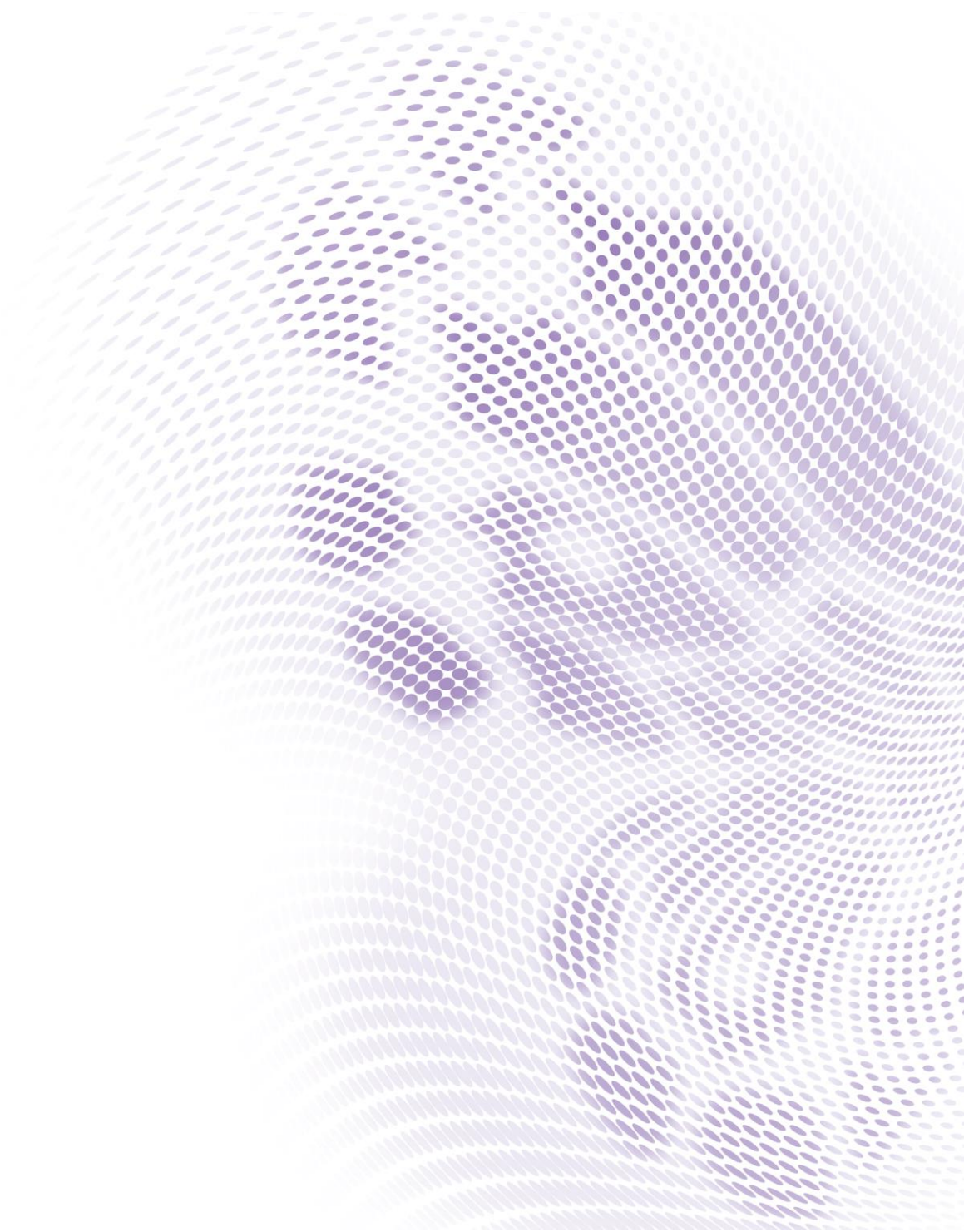




LH820ST

Projector RS232 Command Control

Installation Guide



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# Introduction

The document describes how to control your BenQ projector via RS232 from a computer. Follow the procedures to complete the connection and settings first, and refer to the command table for RS232 commands.



Available functions and commands vary by model. Check the specifications and user manual of the purchased projector for product functions.

## Wire arrangement

Wire Arrangement		
P1	Color	P2
1	Black	1
2	Brown	3
3	Red	2
4	Orange	4
5	Yellow	5
6	Green	6
7	Blue	7
8	Purple	8
9	Gray	9
Case	Drain wire	Case

## RS232 pin assignment

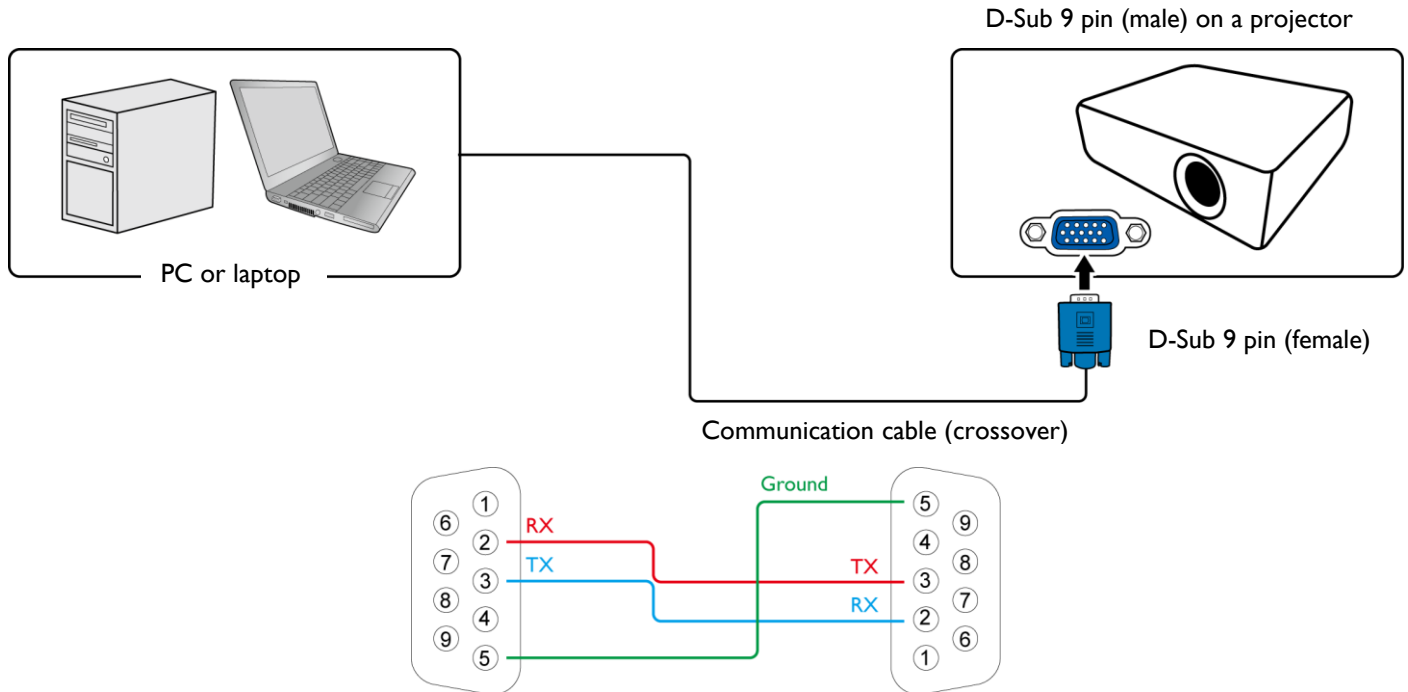


Pin	Description	Pin	Description
1	NC	2	RXD
3	TXD	4	NC
5	GND	6	NC
7	RTS	8	CTS
9	NC		

# Connections and communication settings

Choose one of the connections and set up properly before RS232 control.

## RS232 serial port with a crossover cable

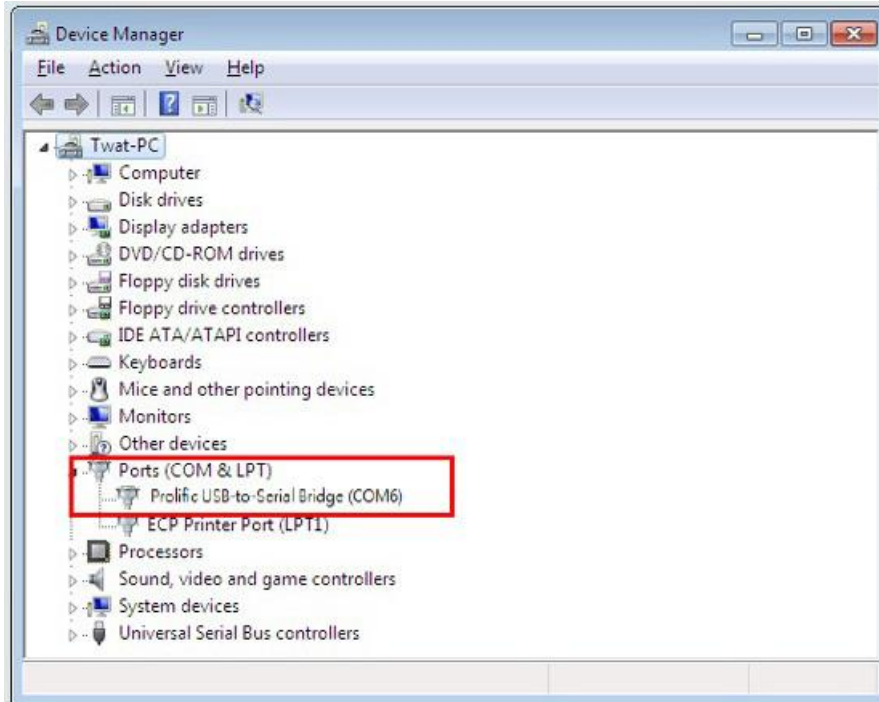


## Settings



On-screen images in this document are for reference only. The screens may vary depending on your Operating System, I/O ports used for connection, and the specifications of the connected projector.

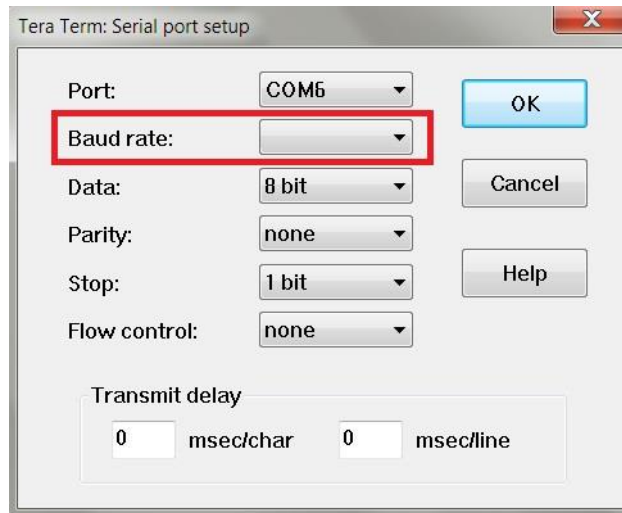
1. Determine the COM Port name used for the RS232 communications in **Device Manager**.



2. Choose **Serial** and the corresponding COM port as the communication port. In this given example, COM6 is selected.

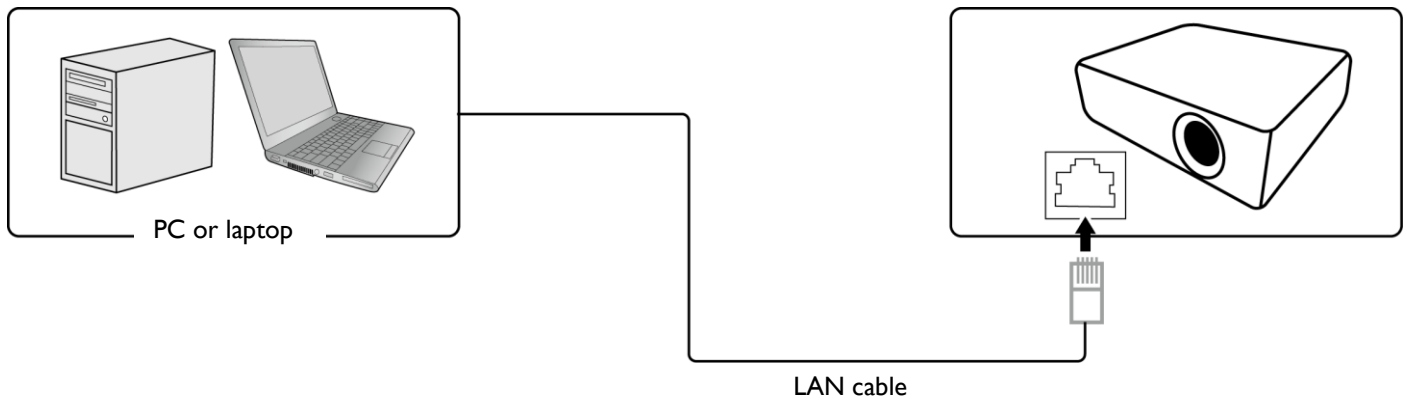


### 3. Finish **Serial port setup**.



Baud rate	9600 / 14400 / 19200 / 38400 / 57600 / 115200* bps *Default Baud rate
Data length	8 bit
Parity check	None
Stop bit	1 bit
Flow control	None

## RS232 via LAN

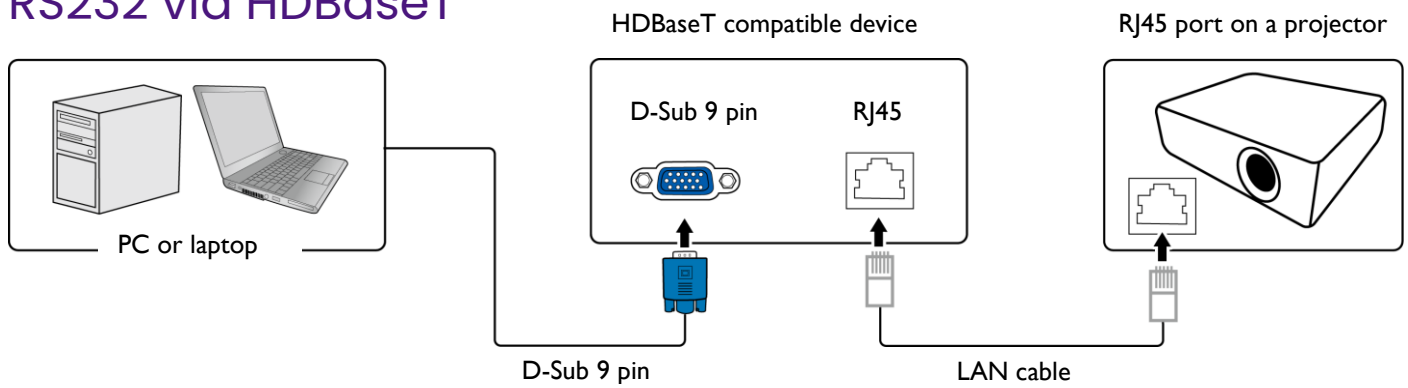


## Settings

1. Find the Wired LAN IP address of the connected projector from the OSD menu and make sure the projector and the computer are within the same network.
2. Input **8000** in the **TCP port #** field.



## RS232 via HDBaseT



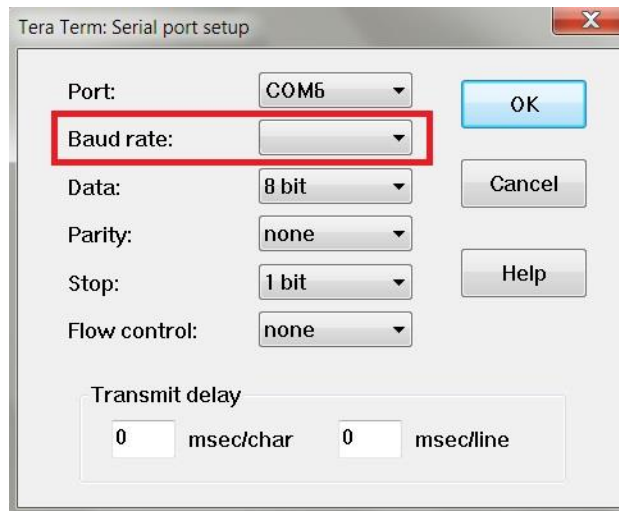
## Settings

1. Determine the COM Port name used for the RS232 communications in **Device Manager**.
2. Choose **Serial** and the corresponding COM port as the communication port. In this given example, COM6 is selected.





### 3. Finish **Serial port setup**.



Baud rate	9600 / 14400 / 19200 / 38400 / 57600 / 115200* bps *Default Baud rate
Data length	8 bit
Parity check	None
Stop bit	1 bit
Flow control	None

# Command table



- Available features differ by projector specification, input sources, settings, etc..
- Commands are working if the standby power is 0.5W or a supported baud rate of the projector is set.
- Uppercase, lowercase, and a mixture of both types of characters are accepted for a command.
- If a command format is illegal, it will echo **Illegal format**.
- If a command with correct format is not valid for the projector model, it will echo **Unsupported item**.
- If a command with correct format cannot be executed under certain condition, it will echo **Block item**.
- If RS232 control is performed via LAN, a command works whether it starts and ends with **<CR>**. All the commands and behaviors are identical with the control through a serial port.

Function	Type	Operation	ASCII	Support
Power	Write	Power On	<CR>*pow=on#<CR>	Yes
	Write	Power Off	<CR>*pow=off#<CR>	Yes
	Read	Power Status	<CR>*pow=?#<CR>	Yes
Source Selection	Write	COMPUTER/YPbPr	<CR>*sour=RGB#<CR>	Yes
	Write	COMPUTER 2/YPbPr2	<CR>*sour=RGB2#<CR>	Yes
	Write	COMPUTER 3/YPbPr3	<CR>*sour=RGB3#<CR>	No
	Write	Component	<CR>*sour=ypbr#<CR>	No
	Write	Component2	<CR>*sour=ypbr2#<CR>	No
	Write	DVI-A	<CR>*sour=dviA#<CR>	No
	Write	DVI-D	<CR>*sour=dvid#<CR>	No
	Write	HDMI(MHL)	<CR>*sour=hdmi#<CR>	Yes
	Write	HDMI 2(MHL2)	<CR>*sour=hdmi2#<CR>	Yes
	Write	HDMI 3	<CR>*sour=hdmi3#<CR>	No
	Write	Composite	<CR>*sour=vid#<CR>	Yes
	Write	S-Video	<CR>*sour=svid#<CR>	Yes
	Write	Network	<CR>*sour=network#<CR>	No
	Write	USB Display	<CR>*sour=usbdisplay#<CR>	No
	Write	USB Reader	<CR>*sour=usbreader#<CR>	No
	Write	HDbaseT	<CR>*sour=hdbaset#<CR>	No
	Write	DisplayPort	<CR>*sour=dp#<CR>	No
	Write	3G-SDI	<CR>*sour=sdi#<CR>	No
Write	Smart System	<CR>*sour=smartsystem#<CR>	No	
Read	Current source	<CR>*sour=?#<CR>	No	
Audio Control	Write	Mute On	<CR>*mute=on#<CR>	Yes
	Write	Mute Off	<CR>*mute=off#<CR>	Yes
	Read	Mute Status	<CR>*mute=?#<CR>	Yes

	Write	Volume +	<CR>*vol=+#<CR>	Yes
	Write	Volume -	<CR>*vol=-#<CR>	Yes
	Write	Volume level for customer	<CR>*vol=value#<CR>	Yes
	Read	Volume Status	<CR>*vol=?#<CR>	Yes
	Write	Mic. Volume +	<CR>*micvol=+#<CR>	Yes
	Write	Mic. Volume -	<CR>*micvol=-#<CR>	Yes
	Read	Mic. Volume Status	<CR>*micvol=?#<CR>	Yes
Audio source select	Write	Audio pass Through off	<CR>*audiosour=off#<CR>	Yes
	Write	Audio-Computer1	<CR>*audiosour=RGB#<CR>	Yes
	Write	Audio-Computer2	<CR>*audiosour=RGB2#<CR>	Yes
	Write	Audio-Video/S-Video	<CR>*audiosour=vid#<CR>	Yes
	Write	Audio-Component	<CR>*audiosour=ypbr#<CR>	No
	Write	Audio-HDMI	<CR>*audiosour=hdmi#<CR>	Yes
	Write	Audio-HDMI2	<CR>*audiosour=hdmi2#<CR>	Yes
	Write	Audio-HDMI3	<CR>*audiosour=hdmi3#<CR>	No
Read	Audio pass Status	<CR>*audiosour=?#<CR>	Yes	
Picture Mode	Write	Dynamic	<CR>*appmod=dynamic#<CR>	No
	Write	Presentation	<CR>*appmod=preset#<CR>	Yes
	Write	sRGB	<CR>*appmod=srgb#<CR>	Yes
	Write	Bright	<CR>*appmod=bright#<CR>	Yes
	Write	Bright Cinema	<CR>*appmod=brightcine#<CR>	No
	Write	FILMMAKER MODE	<CR>*appmod=film maker#<CR>	No
	Write	Living Room	<CR>*appmod=livingroom#<CR>	No
	Write	Game	<CR>*appmod=game#<CR>	No
	Write	Cinema(Rec.709)	<CR>*appmod=cine#<CR>	No
	Write	Standard/Vivid	<CR>*appmod=std#<CR>	No
	Write	Football	<CR>*appmod=football#<CR>	No
	Write	Football Bright	<CR>*appmod=footballbt#<CR>	No
	Write	DICOM	<CR>*appmod=dicom#<CR>	No
	Write	THX	<CR>*appmod=thx#<CR>	No
	Write	Silence mode	<CR>*appmod=silence#<CR>	No
	Write	DCI-P3 mode(D. Cinema)	<CR>*appmod=dci-p3#<CR>	No
	Write	Vivid	<CR>*appmod=vivid#<CR>	Yes
	Write	Infographic	<CR>*appmod=infographic#<CR>	Yes
	Write	User1	<CR>*appmod=user1#<CR>	Yes

	Write	User2	<CR>*appmod=user2#<CR>	Yes
	Write	User3	<CR>*appmod=user3#<CR>	No
	Write	ISF Day	<CR>*appmod=isfdays#<CR>	No
	Write	ISF Night	<CR>*appmod=isfnights#<CR>	No
	Write	3D	<CR>*appmod=threed#<CR>	Yes
	Write	Sport	<CR>*appmod=sport#<CR>	No
	Write	HDR10	<CR>*appmod=hdr#<CR>	No
	Write	HLG	<CR>*appmod=hlgs#<CR>	No
Picture Setting	Write	Spreadsheet	<CR>*appmod=spreadsheet#<CR>	No
	Read	Picture Mode	<CR>*appmod=?#<CR>	Yes
	Write	Contrast +	<CR>*con=+#<CR>	Yes
	Write	Contrast -	<CR>*con=-#<CR>	Yes
	Write	Set Contrast value	<CR>*con=value#<CR>	No
	Read	Contrast value	<CR>*con=?#<CR>	Yes
	Write	Brightness +	<CR>*bri=+#<CR>	Yes
	Write	Brightness -	<CR>*bri=-#<CR>	Yes
	Write	Set Brightness value	<CR>*bri=value#<CR>	No
	Read	Brightness value	<CR>*bri=?#<CR>	Yes
	Write	Color +	<CR>*color=+#<CR>	Yes
	Write	Color -	<CR>*color=-#<CR>	Yes
	Write	Set Color value	<CR>*color=value#<CR>	No
	Read	Color value	<CR>*color=?#<CR>	Yes
	Write	Sharpness +	<CR>*sharp=+#<CR>	Yes
	Write	Sharpness -	<CR>*sharp=-#<CR>	Yes
	Write	Set Sharpness value	<CR>*sharp=value#<CR>	No
	Read	Sharpness value	<CR>*sharp=?#<CR>	Yes
	Write	Flesh Tone +	<CR>*fleshtone=+#<CR>	No
	Write	Flesh Tone -	<CR>*fleshtone=-#<CR>	No
	Write	Set Flesh Tone value	<CR>*fleshtone=value#<CR>	No
	Read	Flesh Tone value	<CR>*fleshtone=?#<CR>	No
	Write	Color Temperature-Warmer	<CR>*ct=warmers#<CR>	Yes
	Write	Color Temperature-Warm	<CR>*ct=warm#<CR>	Yes
Write	Color Temperature-Normal	<CR>*ct=normal#<CR>	Yes	
Write	Color Temperature-Cool	<CR>*ct=cool#<CR>	Yes	

Write	Color Temperature-Cooler	<CR>*ct=cooler#<CR>	Yes
Write	Color Temperature-lamp native	<CR>*ct=ative#<CR>	No
Read	Color Temperature Status	<CR>*ct=?#<CR>	Yes
Write	Aspect 4:3	<CR>*asp=4:3#<CR>	Yes
Write	Aspect 16:6	<CR>*asp=16:6#<CR>	No
Write	Aspect 16:9	<CR>*asp=16:9#<CR>	Yes
Write	Aspect 16:10	<CR>*asp=16:10#<CR>	Yes
Write	Aspect 2.35:1	<CR>*asp=2.35#<CR>	No
Write	Aspect Auto	<CR>*asp=AUTO#<CR>	Yes
Write	Aspect Real	<CR>*asp=REAL#<CR>	Yes
Write	Aspect Letterbox	<CR>*asp=LBOX#<CR>	No
Write	Aspect Wide	<CR>*asp=WIDE#<CR>	No
Write	Aspect Anamorphic	<CR>*asp=ANAM#<CR>	No
Write	Aspect Anamorphic 2.35	<CR>*asp=ANAM2.35#<CR>	No
Write	Aspect Anamorphic 16:9	<CR>*asp=ANAM16:9#<CR>	No
Read	Aspect Status	<CR>*asp=?#<CR>	Yes
Write	Vertical Keystone +	<CR>*vkeystone=+#<CR>	Yes
Write	Vertical Keystone -	<CR>*vkeystone=-#<CR>	Yes
Read	Vertical Keystone value	<CR>*vkeystone=?#<CR>	Yes
Write	Horizontal Keystone +	<CR>*hkeystone=+#<CR>	Yes
Write	Horizontal Keystone -	<CR>*hkeystone=-#<CR>	Yes
Read	Horizontal Keystone value	<CR>*hkeystone=?#<CR>	Yes
Write	Rotate Keystone +	<CR>*rkeystone=+#<CR>	No
Write	Rotate Keystone -	<CR>*rkeystone=-#<CR>	No
Write	Rotate Keystone value Set	<CR>*rkeystone=value#<CR>	No
Read	Rotate Keystone value	<CR>*rkeystone=?#<CR>	No
Write	Overscan Adjustment +	<CR>*overscan=+#<CR>	No
Write	Overscan Adjustment	<CR>*overscan=-#<CR>	No

	-		
Read	Overscan Adjustment value	<CR>*overscan=?#<CR>	No
Write	4 Corners Top-Left-X Decrease	<CR>*cornerfittlx=-#<CR>	Yes
Write	4 Corners Top-Left-X Increase	<CR>*cornerfittlx=+#<CR>	Yes
Read	4 Corners Top-Left-X Status	<CR>*cornerfittlx=?#<CR>	Yes
Write	4 Corners Top-Left-Y Decrease	<CR>*cornerfittly=-#<CR>	Yes
Write	4 Corners Top-Left-Y Increase	<CR>*cornerfittly=+#<CR>	Yes
Read	4 Corners Top-Left-Y Status	<CR>*cornerfittly=?#<CR>	Yes
Write	4 Corners Top-Right-X Decrease	<CR>*cornerfittrx=-#<CR>	Yes
Write	4 Corners Top-Right-X Increase	<CR>*cornerfittrx=+#<CR>	Yes
Read	4 Corners Top-Right-X Status	<CR>*cornerfittrx=?#<CR>	Yes
Write	4 Corners Top-Right-Y Decrease	<CR>*cornerfitttry=-#<CR>	Yes
Write	4 Corners Top-Right-Y Increase	<CR>*cornerfitttry=+#<CR>	Yes
Read	4 Corners Top-Right-Y Status	<CR>*cornerfitttry=?#<CR>	Yes
Write	4 Corners Bottom-Left-X Decrease	<CR>*cornerfitblx=-#<CR>	Yes
Write	4 Corners Bottom-Left-X Increase	<CR>*cornerfitblx=+#<CR>	Yes
Read	4 Corners Bottom-Left-X Status	<CR>*cornerfitblx=?#<CR>	Yes
Write	4 Corners Bottom-Left-Y Decrease	<CR>*cornerfitbly=-#<CR>	Yes

	Write	4 Corners Bottom-Left-Y Increase	<CR>*cornerfitbly=+#<CR>	Yes
	Read	4 Corners Bottom-Left-Y Status	<CR>*cornerfitbly=?#<CR>	Yes
	Write	4 Corners Bottom-Right-X Decrease	<CR>*cornerfitbrx=-#<CR>	Yes
	Write	4 Corners Bottom-Right-X Increase	<CR>*cornerfitbrx=+#<CR>	Yes
	Read	4 Corners Bottom-Right-X Status	<CR>*cornerfitbrx=?#<CR>	Yes
	Write	4 Corners Bottom-Right-Y Decrease	<CR>*cornerfitbry=-#<CR>	Yes
	Write	4 Corners Bottom-Right-Y Increase	<CR>*cornerfitbry=+#<CR>	Yes
	Read	4 Corners Bottom-Right-Y Status	<CR>*cornerfitbry=?#<CR>	Yes
	Write	Digital Zoom In	<CR>*zoomI#<CR>	Yes
	Write	Digital Zoom out	<CR>*zoomO#<CR>	Yes
	Write	Auto	<CR>*auto#<CR>	Yes
	Write	Brilliant color on	<CR>*BC=on#<CR>	Yes
	Write	Brilliant color off	<CR>*BC=off#<CR>	Yes
	Read	Brilliant color status	<CR>*BC=?#<CR>	Yes
	Write	Auto(HDR)	<CR>*hdr=auto#<CR>	No
	Write	SDR	<CR>*hdr=sdr#<CR>	No
	Write	HDR10	<CR>*hdr=hdr#<CR>	No
	Write	HLG	<CR>*hdr=hlg#<CR>	No
	Read	HDR status	<CR>*hdr=?#<CR>	No
	Write	Reset current picture settings	<CR>*rstcurpicsetting#<CR>	Yes
Operation	Write	Reset all picture settings	<CR>*rstallpicsetting#<CR>	Yes

Settings	Write	Projector Position-Front Table	<CR>*pp=FT#<CR>	Yes
	Write	Projector Position-Rear Table	<CR>*pp=RE#<CR>	Yes
	Write	Projector Position-Rear Ceiling	<CR>*pp=RC#<CR>	Yes
	Write	Projector Position-Front Ceiling	<CR>*pp=FC#<CR>	Yes
	Read	Projector Position Status	<CR>*pp=?#<CR>	Yes
	Write	Quick cooling on	<CR>*qcool=on<CR>	No
	Write	Quick cooling off	<CR>*qcool=off<CR>	No
	Read	Quick cooling status	<CR>*qcool=?<CR>	No
	Write	Quick auto search	<CR>*QAS=on#<CR>	Yes
	Write	Quick auto search	<CR>*QAS=off#<CR>	Yes
	Read	Quick auto search status	<CR>*QAS=?#<CR>	Yes
	Write	Menu Position - Center	<CR>*menuposition=center#<CR>	No
	Write	Menu Position - Top-Left	<CR>*menuposition=tl#<CR>	No
	Write	Menu Position - Top-Right	<CR>*menuposition=tr#<CR>	No
	Write	Menu Position - Bottom-Right	<CR>*menuposition=br#<CR>	No
	Write	Menu Position - Bottom-Left	<CR>*menuposition=bl#<CR>	No
	Read	Menu Position Status	<CR>*menuposition=?#<CR>	No
	Write	Direct Power On-on	<CR>*directpower=on#<CR>	Yes
	Write	Direct Power On-off	<CR>*directpower=off#<CR>	Yes
	Read	Direct Power On-Status	<CR>*directpower=?#<CR>	Yes
	Write	Signal Power On-on	<CR>*autopower=on#<CR>	Yes
	Write	Signal Power On-off	<CR>*autopower=off#<CR>	Yes
	Read	Signal Power On-Status	<CR>*autopower=?#<CR>	Yes
	Write	Standby Settings-Network on	<CR>*standbynet=on#<CR>	Yes



	Write	Standby Settings-Network off	<CR>*standbynet=off#<CR>	Yes
	Read	Standby Settings-Network Status	<CR>*standbynet=?#<CR>	Yes
	Write	Standby Settings-Microphone on	<CR>*standbymic=on#<CR>	Yes
	Write	Standby Settings-Microphone off	<CR>*standbymic=off#<CR>	Yes
	Read	Standby Settings-Microphone Status	<CR>*standbymic=?#<CR>	Yes
	Write	Standby Settings-Monitor Out on	<CR>*standbymnt=on#<CR>	Yes
	Write	Standby Settings-Monitor Out off	<CR>*standbymnt=off#<CR>	Yes
Baud Rate	Read	Standby Settings-Monitor Out Status	<CR>*standbymnt=?#<CR>	Yes
	Write	2400	<CR>*baud=2400#<CR>	Yes
	Write	4800	<CR>*baud=4800#<CR>	Yes
	Write	9600	<CR>*baud=9600#<CR>	Yes
	Write	14400	<CR>*baud=14400#<CR>	Yes
	Write	19200	<CR>*baud=19200#<CR>	Yes
	Write	38400	<CR>*baud=38400#<CR>	Yes
	Write	57600	<CR>*baud=57600#<CR>	Yes
Lamp Control	Write	115200	<CR>*baud=115200#<CR>	Yes
	Read	Current Baud Rate	<CR>*baud=?#<CR>	Yes
	Read	Lamp	<CR>*ltime=?#<CR>	Yes
	Read	Lamp2 Hour	<CR>*ltime2=?#<CR>	No
	Write	Normal mode	<CR>*lampm=lnor#<CR>	Yes
	Write	Eco mode	<CR>*lampm=eco#<CR>	Yes
	Write	SmartEco mode	<CR>*lampm=seco#<CR>	No
Write	SmartEco mode 2	<CR>*lampm= seco2#<CR>	No	

	Write	SmartEco mode 3	<CR>*lampm= seco3#<CR>	No
	Write	Dimming mode	<CR>*lampm=dimming#<CR>	Yes
	Write	Custom mode	<CR>*lampm=custom#<CR>	Yes
	Write	Light level for custom mode	<CR>*lampcustom=value#<CR>	Yes
	Read	Light level status for custom mode	<CR>*lampcustom=?#<CR>	No
	Write(雙燈)	Dual Brightest	<CR>* lampm =dualbr#<CR>	No
	Write(雙燈)	Dual Reliable	<CR>* lampm =dualre#<CR>	No
	Write(雙燈)	Single Alternative	<CR>* lampm =single#<CR>	No
	Write(雙燈)	Single Alternative Eco	<CR>* lampm =singleeco#<CR>	No
Miscellaneous	Read	Lamp Mode Status	<CR>*lampm=?#<CR>	Yes
	Read	Model Name	<CR>*modelname=?#<CR>	Yes
	Read	System F/W Version	<CR>*sysfwversion=?#<CR>	Yes
	Read	Scaler F/W Version	<CR>*scalerfwversion=?#<CR>	Yes
	Read	Format F/W version	<CR>*formatfwversion=?#<CR>	Yes
	Read	Lan F/W Version	<CR>*lanfwversion=?#<CR>	Yes
	Read	MCU F/W Version	<CR>*mcufwversion=?#<CR>	Yes
	Read	Ballast F/W Version	<CR>*ballastfwversion=?#<CR>	Yes
	Write	Blank On	<CR>*blank=on#<CR>	Yes
	Write	Blank Off	<CR>*blank=off#<CR>	Yes
	Read	Blank Status	<CR>*blank=?#<CR>	Yes
	Write	Freeze On	<CR>*freeze=on#<CR>	Yes
	Write	Freeze Off	<CR>*freeze=off#<CR>	Yes
	Read	Freeze Status	<CR>*freeze=?#<CR>	Yes
	Write	Menu On	<CR>*menu=on#<CR>	Yes
	Write	Menu Off	<CR>*menu=off#<CR>	Yes
	Read	Menu Status	<CR>*menu=?#<CR>	Yes
	Write	Up	<CR>*up#<CR>	Yes
	Write	Down	<CR>*down#<CR>	Yes
	Write	Right	<CR>*right#<CR>	Yes
	Write	Left	<CR>*left#<CR>	Yes
Write	Enter	<CR>*enter#<CR>	Yes	
Write	Back	<CR>*back#<CR>	Yes	

Write	Source Menu On	<CR>*sourmenu=on#<CR>	Yes
Write	Source Menu Off	<CR>*sourmenu=off#<CR>	Yes
Read	Source Menu Status	<CR>*sourmenu=?#<CR>	Yes
Write	3D Sync Off	<CR>*3d=off#<CR>	Yes
Write	3D Auto	<CR>*3d=auto#<CR>	Yes
Write	3D Sync Top Bottom	<CR>*3d=tb#<CR>	Yes
Write	3D Sync Frame Sequential	<CR>*3d=fs#<CR>	Yes
Write	3D Frame packing	<CR>*3d=fp#<CR>	Yes
Write	3D Side by side	<CR>*3d=sbs#<CR>	Yes
Write	3D inverter disable	<CR>*3d=da#<CR>	Yes
Write	3D inverter	<CR>*3d=iv#<CR>	Yes
Write	2D to 3D	<CR>*3d=2d3d#<CR>	No
Write	3D nVIDIA	<CR>*3d=nvidia#<CR>	Yes
Read	3D Sync Status	<CR>*3d=?#<CR>	Yes
Write	Remote Receiver On	<CR>*rr=on#<CR>	No
Write	Remote Receiver Off	<CR>*rr=off#<CR>	No
Write	Remote Receiver-front+rear	<CR>*rr=fr#<CR>	No
Write	Remote Receiver-front	<CR>*rr=f#<CR>	Yes
Write	Remote Receiver-rear	<CR>*rr=r#<CR>	No
Write	Remote Receiver-top	<CR>*rr=t#<CR>	Yes
Write	Remote Receiver-top+front	<CR>*rr=tf#<CR>	Yes
Write	Remote Receiver-top+rear	<CR>*rr=tr#<CR>	No
Read	Remote Receiver Status	<CR>*rr=?#<CR>	Yes
Write	Instant On-on	<CR>*ins=on#<CR>	No
Write	Instant On-off	<CR>*ins=off#<CR>	No
Read	Instant On Status	<CR>*ins=?#<CR>	No
Write	Lamp Saver Mode-on	<CR>*lpsaver=on#<CR>	Yes
Write	Lamp Saver Mode-off	<CR>*lpsaver=off#<CR>	Yes
Read	Lamp Saver Mode Status	<CR>*lpsaver=?#<CR>	Yes
Write	Projection Log In Code on	<CR>*prjlogincode=on#<CR>	No

	Write	Projection Log In Code off	<CR>*prjlogincode=off#<CR>	No
	Read	Projection Log In Code Status	<CR>*prjlogincode=?#<CR>	No
	Write	Broadcasting on	<CR>*broadcasting=on#<CR>	No
	Write	Broadcasting off	<CR>*broadcasting=off#<CR>	No
	Read	Broadcasting Status	<CR>*broadcasting=?<CR>	No
	Write	AMX Device Discovery-on	<CR>*amxdd=on#<CR>	Yes
	Write	AMX Device Discovery-off	<CR>*amxdd=off#<CR>	Yes
	Read	AMX Device Discovery Status	<CR>*amxdd=?#<CR>	Yes
	Read	Mac Address	<CR>*macaddr=?#<CR>	Yes
	Read	Serial Number	<CR>*serialnumber=?#<CR>	Yes
	Write	High Altitude mode on	<CR>*Highaltitude=on#<CR>	Yes
	Write	High Altitude mode off	<CR>*Highaltitude=off#<CR>	Yes
Installation	Read	High Altitude mode status	<CR>*Highaltitude=?#<CR>	Yes
	Write	Load Lens memory 1	<CR>*lensload=m1#<CR>	No
	Write	Load Lens memory 2	<CR>*lensload=m2#<CR>	No
	Write	Load Lens memory 3	<CR>*lensload=m3#<CR>	No
	Write	Load Lens memory 4	<CR>*lensload=m4#<CR>	No
	Write	Load Lens memory 5	<CR>*lensload=m5#<CR>	No
	Write	Load Lens memory 6	<CR>*lensload=m6#<CR>	No
	Write	Load Lens memory 7	<CR>*lensload=m7#<CR>	No
	Write	Load Lens memory 8	<CR>*lensload=m8#<CR>	No
	Write	Load Lens memory 9	<CR>*lensload=m9#<CR>	No
	Write	Load Lens memory 10	<CR>*lensload=m10#<CR>	No
	Read	Read Lens memory status	<CR>*lensload=?#<CR>	No
	Write	save Lens memory 1	<CR>*lenssave=m1#<CR>	No
	Write	save Lens memory 2	<CR>*lenssave=m2#<CR>	No
	Write	save Lens memory 3	<CR>*lenssave=m3#<CR>	No
	Write	save Lens memory 4	<CR>*lenssave=m4#<CR>	No
	Write	save Lens memory 5	<CR>*lenssave=m5#<CR>	No
Write	save Lens memory 6	<CR>*lenssave=m6#<CR>	No	
Write	save Lens memory 7	<CR>*lenssave=m7#<CR>	No	

	Write	save Lens memory 8	<CR>*lenssave=m8#<CR>	No
	Write	save Lens memory 9	<CR>*lenssave=m9#<CR>	No
	Write	save Lens memory 10	<CR>*lenssave=m10#<CR>	No
	Write	Reset Lens to center	<CR>*lensreset=center#<CR>	No
Function	Type	Operation	ASCII	Support
Power	Write	Power On	<CR>*pow=on#<CR>	Yes
	Write	Power Off	<CR>*pow=off#<CR>	Yes
Source	Read	Power Status	<CR>*pow=?#<CR>	Yes
Selection	Write	COMPUTER/YPbPr	<CR>*sour=RGB#<CR>	Yes
Audio Control	Write	COMPUTER 2/YPbPr2	<CR>*sour=RGB2#<CR>	Yes
Audio source	Write	COMPUTER 3/YPbPr3	<CR>*sour=RGB3#<CR>	No
select	Write	Component	<CR>*sour=ypbr#<CR>	No
Picture Mode	Write	Component2	<CR>*sour=ypbr2#<CR>	No
	Write	DVI-A	<CR>*sour=dviA#<CR>	No
	Write	DVI-D	<CR>*sour=dvid#<CR>	No
	Write	HDMI(MHL)	<CR>*sour=hdmi#<CR>	Yes
	Write	HDMI 2(MHL2)	<CR>*sour=hdmi2#<CR>	Yes
	Write	HDMI 3	<CR>*sour=hdmi3#<CR>	No
	Write	Composite	<CR>*sour=vid#<CR>	Yes
	Write	S-Video	<CR>*sour=svid#<CR>	Yes
	Write	Network	<CR>*sour=network#<CR>	No
	Write	USB Display	<CR>*sour=usbdisplay#<CR>	No
	Write	USB Reader	<CR>*sour=usbreader#<CR>	No
	Write	HDbaseT	<CR>*sour=hdbaset#<CR>	No
	Write	DisplayPort	<CR>*sour=dp#<CR>	No
	Write	3G-SDI	<CR>*sour=sdi#<CR>	No
	Write	Smart System	<CR>*sour=smartsystem#<CR>	No
	Read	Current source	<CR>*sour=?#<CR>	No
	Write	Mute On	<CR>*mute=on#<CR>	Yes
	Write	Mute Off	<CR>*mute=off#<CR>	Yes
	Read	Mute Status	<CR>*mute=?#<CR>	Yes
	Write	Volume +	<CR>*vol=+#<CR>	Yes
	Write	Volume -	<CR>*vol=-#<CR>	Yes
	Write	Volume level for customer	<CR>*vol=value#<CR>	Yes
	Read	Volume Status	<CR>*vol=?#<CR>	Yes
	Write	Mic. Volume +	<CR>*micvol=+#<CR>	Yes
	Write	Mic. Volume -	<CR>*micvol=-#<CR>	Yes

	Read	Mic. Volume Status	<CR>*micvol=?#<CR>	Yes
	Write	Audio pass Through off	<CR>*audiosour=off#<CR>	Yes
	Write	Audio-Computer1	<CR>*audiosour=RGB#<CR>	Yes
	Write	Audio-Computer2	<CR>*audiosour=RGB2#<CR>	Yes
	Write	Audio-Video/S-Video	<CR>*audiosour=vid#<CR>	Yes
	Write	Audio-Component	<CR>*audiosour=ypbr#<CR>	No
	Write	Audio-HDMI	<CR>*audiosour=hdmi#<CR>	Yes
	Write	Audio-HDMI2	<CR>*audiosour=hdmi2#<CR>	Yes
	Write	Audio-HDMI3	<CR>*audiosour=hdmi3#<CR>	No
	Read	Audio pass Status	<CR>*audiosour=?#<CR>	Yes
	Write	Dynamic	<CR>*appmod=dynamic#<CR>	No
	Write	Presentation	<CR>*appmod=preset#<CR>	Yes
	Write	sRGB	<CR>*appmod=srgb#<CR>	Yes
	Write	Bright	<CR>*appmod=bright#<CR>	Yes
	Write	Bright Cinema	<CR>*appmod=brightcine#<CR>	No
	Write	FILMMAKER MODE	<CR>*appmod=film maker#<CR>	No
	Write	Living Room	<CR>*appmod=livingroom#<CR>	No
	Write	Game	<CR>*appmod=game#<CR>	No
	Write	Cinema(Rec.709)	<CR>*appmod=cine#<CR>	No
	Write	Standard/Vivid	<CR>*appmod=std#<CR>	No
	Write	Football	<CR>*appmod=football#<CR>	No
	Write	Football Bright	<CR>*appmod=footballbt#<CR>	No
	Write	DICOM	<CR>*appmod=dicom#<CR>	No

Note: The above function will be varied from model to model.

## FAQ Video

(1) How to use RS232 cable to do volume control and sound control on projector?

<https://youtu.be/P4F26kEv60U>

(2) How to use RS232 cable connection to power on & off projector?

<https://youtu.be/faGUvcDBmJE>

(3) How to set up RS232 cable connection?

<https://youtu.be/CYJRqyO6Klw>

(4) How to use RS232 command to request fan speed and temperature value?

<https://youtu.be/KBXEd-BCDKQ>

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