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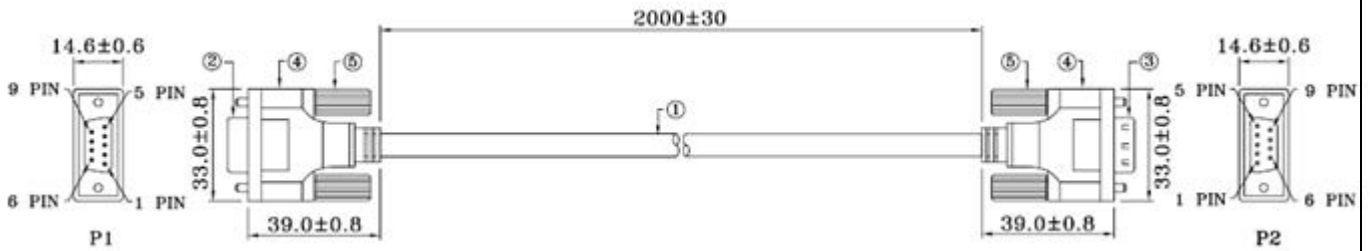
# BenQ RS232 Commands

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# 1. RS232 Cable Requirement and Pin Assignment

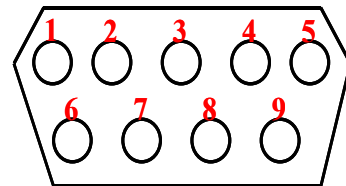
## Cable Requirement:



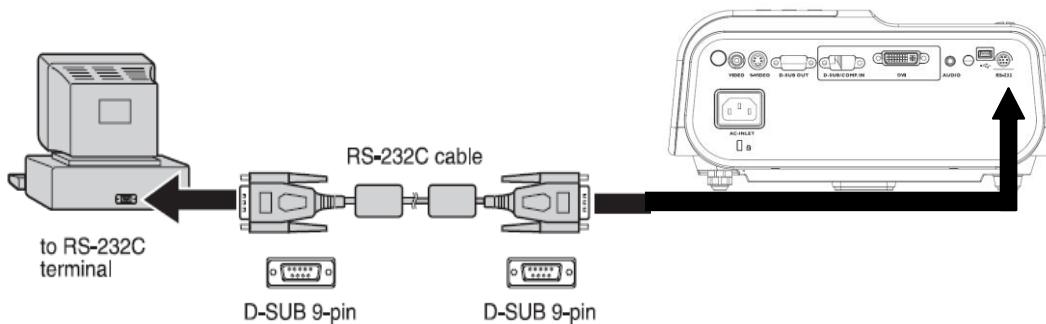
WIRE ARRANGEMENT		
P1	COLOR	P2
1	BLACK	1
2	BROWN	3
3	RED	2
4	ORANGE	4
5	YELLOW	5
6	GREEN	6
7	BLUE	7
8	PURPLE	8
9	GRAY	9
CASE	DRAIN WIRE	CASE

## 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		



## 2. RS232 Connection



### Notes:

- Make sure that both of the PC and the projector are turned off before connecting them.
- Must turn on the PC before turning on the projector. (Wrong step may have Com port working incorrectly)
- PLS choose appropriate adapter for PC side.

## 2. Interface Settings - RS-232 protocol

Baud Rate	Default in 115200 bps, but changeable in OSD menu. (2400/4800/9600/14400/19200/38400/57600/115200)
Data Length	8 bit
Parity Check	None
Stop Bit	1 bit
Flow Control	None

## 3. Command Table

Note:

- The available features are different by model. (eg. source, audio settings, aspect ratio..etc.), please refer to the user manual for the further information.

Function	Type	Operation	ASCII
<b>Power</b>	Write	Power On	*pow=on#
	Write	Power off	*pow=off#
	Read	Power Status	*pow=?#
<b>Source Selection</b>	Write	COMPUTER/YPbPr	*sour=RGB#
	Write	COMPUTER 2/YPbPr2	*sour=RGB2#
	Write	Component	*sour=ypbr#
	Write	DVI-A	*sour=dviA#
	Write	DVI-D	*sour=dvid#
	Write	HDMI	*sour=hdmi#
	Write	HDMI 2	*sour=hdmi2#
	Write	Composite	*sour=vid#
	Write	S-Video	*sour=svid#
	Write	Network	*sour=network#
	Write	USB Display	*sour=usbdisplay#
	Write	USB Reader	*sour=usbreader#
Read	Current source	*sour=?#	
<b>Audio Control</b>	Write	Mute On	*mute=on#
	Write	Mute Off	*mute=off#
	Read	Mute Status	*mute=?#
	Write	Volume +	*vol=+#
	Write	Volume -	*vol=-#

	Read	Volume Status	*vol=?#
	Write	Mic. Volume +	*micvol=+#
	Write	Mic. Volume -	*micvol=-#
	Read	Mic. Volume Status	*micvol=?#
<b>Audio source select</b>	Write	Audio pass Through off	*audiosour=off#
	Write	Audio-Computer1	*audiosour=RGB#
	Write	Audio-Computer2	*audiosour=RGB2#
	Write	Audio-Video/S-Video	*audiosour=vid#
	Write	Audio-Component	*audiosour=ypbr#
	Write	Audio-HDMI	*audiosour=hdmi#
	Write	Audio-HDMI2	*audiosour=hdmi2#
	Read	Audio pass Status	*audiosour=?#
<b>Picture Mode</b>	Write	Dynamic	*appmod=dynamic#
	Write	Presentation	*appmod=preset#
	Write	sRGB	*appmod=srgb#
	Write	Bright	*appmod=bright#
	Write	Living Room	*appmod=livingroom#
	Write	Game	*appmod=game#
	Write	Cinema	*appmod=cine#
	Write	Standard	*appmod=std#
	Write	User1	*appmod=user1#
	Write	User2	*appmod=user2#
	Write	User3	*appmod=user3#
		Read	Picture Mode
<b>Picture Setting</b>	Write	Contrast +	*con=+#
	Write	Contrast -	*con=-#
	Read	Contrast value	*con=?#
	Write	Brightness +	*bri=+#
	Write	Brightness -	*bri=-#
	Read	Brightness value	*bri=?#
	Write	Color +	*color=+#
	Write	Color -	*color=-#
	Read	Color value	*color=?#
	Write	Sharpness +	*sharp=+#
	Write	Sharpness -	*sharp=-#
	Read	Sharpness value	*sharp=?#

	Write	Color Temperature-Warmer	*ct=warm#
	Write	Color Temperature-Warm	*ct=warm#
	Write	Color Temperature-Normal	*ct=normal#
	Write	Color Temperature-Cool	*ct=cool#
	Write	Color Temperature-Cooler	*ct=cooler#
	Read	Color Temperature Status	*ct=?#
	Write	Aspect 4:3	*asp=4:3#
	Write	Aspect 16:9	*asp=16:9#
	Write	Aspect 16:10	*asp=16:10#
	Write	Aspect Auto	*asp=AUTO#
	Write	Aspect Real	*asp=REAL#
	Write	Aspect Letterbox	*asp=LBOX#
	Write	Aspect Wide	*asp=WIDE#
	Write	Aspect Anamorphic	*asp=ANAM#
	Read	Aspect Status	*asp=?#
	Write	Digital Zoom In	*zoomI#
	Write	Digital Zoom out	*zoomO#
	Write	Auto	*auto#
		Write	Brilliant color on
Write		Brilliant color off	*BC=off#
Read		Brilliant color status	*BC=?#
<b>Operation Settings</b>	Write	Projector Position-Front Table	*pp=FT#
	Write	Projector Position-Rear Table	*pp=RE#
	Write	Projector Position-Rear Ceiling	*pp=RC#
	Write	Projector Position-Front Ceiling	*pp=FC#
	Write	Quick auto search	*QAS=on#
	Write	Quick auto search	*QAS=off#
	Read	Quick auto search status	*QAS=?#
	Read	Projector Position Status	*pp=?#

	Write	Direct Power On-on	*directpower=on#
	Write	Direct Power On-off	*directpower=off#
	Read	Direct Power On-Status	*directpower=?#
	Write	Signal Power On-on	*autopower=on#
	Write	Signal Power On-off	*autopower=off#
	Read	Signal Power On-Status	*autopower=?#
	Write	Standby Settings-Network on	*standbynet=on#
	Write	Standby Settings-Network off	*standbynet=off#
	Read	Standby Settings-Network Status	*standbynet=?#
	Write	Standby Settings-Microphone on	*standbymic=on#
	Write	Standby Settings-Microphone off	*standbymic=off#
	Read	Standby Settings-Microphone Status	*standbymic=?#
	Write	Standby Settings-Monitor Out on	*standbymnt=on#
	Write	Standby Settings-Monitor Out off	*standbymnt=off#
	Read	Standby Settings-Monitor Out Status	*standbymnt=?#
<b>Baud Rate</b>	Write	2400	*baud=2400#
	Write	4800	<CR>*baud=4800#
	Write	9600	*baud=9600#
	Write	14400	*baud=14400#
	Write	19200	*baud=19200#
	Write	38400	*baud=38400#
	Write	57600	*baud=57600#
	Write	115200	*baud=115200#
	Read	Current Baud Rate	*baud=?#
<b>Lamp Control</b>	Read	Lamp Hour	*ltim=?#
	Read	Lamp2 Hour	*ltim2=?#
	Write	Normal mode	*lampm=lnor#

	Write	Eco mode	*lampm=eco#
	Write	Smart Eco mode	*lampm=seco#
	Write	Dual Brightest (for dual lamp only)	*lampm =dualbr#
	Write	Dual Reliable (for dual lamp only)	*lampm =dualre#
	Write	Single Alternative (for dual lamp only)	*lampm =single#
	Write	Single Alternative Eco (for dual lamp only)	*lampm =singleeco#
	Read	Lamp Mode Status	*lampm=?#
<b>Miscellaneous</b>	Read	Model Name	*modelname=?#
	Write	Blank On	*blank=on#
	Write	Blank Off	*blank=off#
	Read	Blank Status	*blank=?#
	Write	Freeze On	*freeze=on#
	Write	Freeze Off	*freeze=off#
	Read	Freeze Status	*freeze=?#
	Write	Menu On	*menu=on#
	Write	Menu Off	*menu=off#
	Write	Up	*up#
	Write	Down	*down#
	Write	Right	*right#
	Write	Left	*left#
	Write	Enter	*enter#
	Write	3D Sync Off	*3d=off#
	Write	3D Sync Top Bottom	*3d=tb#
	Write	3D Sync Frame Sequential	*3d=fs#
	Read	3D Sync Status	*3d=?#
	Write	Remote Receiver-front+rear	*rr=fr#
	Write	Remote Receiver-front	*rr=f#
	Write	Remote Receiver-rear	*rr=r#
	Read	Remote Receiver Status	*rr=?#
	Write	Instant On-on	*ins=on#



Write	Instant On-off	*ins=off#
Read	Instant On Status	*ins=?#
Write	Lamp Saver Mode-on	*lpsaver=on#
Write	Lamp Saver Mode-off	*lpsaver=off#
Read	Lamp Saver Mode Status	*lpsaver=?#
Write	Projection Log In Code on	*prjlogincode=on#
Write	Projection Log In Code off	*prjlogincode=off#
Read	Projection Log In Code Status	*prjlogincode=?#
Write	Broadcasting on	*broadcasting=on#
Write	Broadcasting off	*broadcasting=off#
Read	Broadcasting Status	*broadcasting=?
Write	AMX Device Discovery-on	*amxdd=on#
Write	AMX Device Discovery-off	*amxdd=off#
Read	AMX Device Discovery Status	*amxdd=?#
Read	Mac Address	*macaddr=?#
Write	High Altitude mode on	*Highaltitude=on#
Write	High Altitude mode off	*Highaltitude=off#
Read	High Altitude mode status	*Highaltitude=?#



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