

BenQ RS232 Commands

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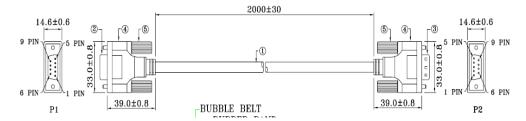
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1. RS232 Cable Requirement and Pin Assignment



Cable Requirement:

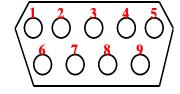


	WIRE ARRANGEMENT				
P1	COLOR	P2			
1	BLACK	1			
2	BROWN	3			
3	RED	2			
4	ORANGE	4			
5	YELLOW	5			
6	GREEN	6			
7	BLUE	7			
8	PURPLE	8			
9	GRAY	9			
CASE	DRAIN WIRE	CASE			

(to be checked)

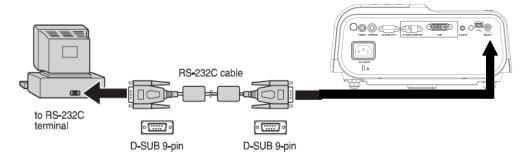
RS232 pin assignment

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

Below shows the illustration of connection between PC and Projector.



Note:



Make sure that your computer and projector are turned

off

before connection.

- Power on the computer first, and then plug the power cord of the projector.
- (It may cause Com port incorrect function, if you do not follow this instruction)
- Adapters may be necessary depending on the PC connected to this projector.

3. Interface Settings

115200 bps (default)
Changeable (2400/4800/9600/14400/19200/38400/57600/115200)
Setting in OSD menu
8 bit
None
1 bit
None

Software specification

- 1. Each input character will be echoed and All the echo text will be same with the command you execute except query command
- 2. When give "Enter" (ASCII 13), it will echo 3E,00. It means projector is ready to accept RS-232 command.
- 3. If no any command, it should echo 0D,0A,00 after 5 seconds.(5 sec time out)
- 4. If the command format is illegal, it will echo "Illegal format".
- 5. If the command format is correct, but it is not valid for this model, it will echo "Unsupported item".
- 6. If the command format is correct, but can't be execute in some condition, it will echo "Block item".

Note: 1.Item 5 and item 6 is not support at power saving mode (standby power < 1W).

2.Each input upper case and lower case character should be action.



4. Command Table

*Note: The available commands are different by model. (ex: source, audio settings, aspect ratio..etc), please refer to the user manual for the further information.

Function	Туре	Operation	ASCII
	Write	Power On	<cr>*pow=on#<cr></cr></cr>
Power	Write	Power off	<cr>*pow=off#<cr></cr></cr>
	Read	Power Status	<cr>*pow=?#<cr></cr></cr>
	Write	COMPUTER/YPbPr	<cr>*sour=RGB#<cr></cr></cr>
	Write	COMPUTER 2/YPbPr2	<cr>*sour=RGB2#<cr></cr></cr>
	Write	Component	<cr>*sour=ypbr#<cr></cr></cr>
	Write	DVI-A	<cr>*sour=dviA#<cr></cr></cr>
	Write	DVI-D	<cr>*sour=dvid#<cr></cr></cr>
	Write	HDMI	<cr>*sour=hdmi#<cr></cr></cr>
Source	Write	HDMI 2	<cr>*sour=hdmi2#<cr></cr></cr>
Selection	Write	Composite	<cr>*sour=vid#<cr></cr></cr>
	Write	S-Video	<cr>*sour=svid#<cr></cr></cr>
	Write	Network	<cr>*sour=network#<cr></cr></cr>
	Write	USB Display	<cr>*sour=usbdisplay#<cr></cr></cr>
	Write	USB Reader	<cr>*sour=usbreader#<cr></cr></cr>
	Read	Current source	<cr>*sour=?#<cr></cr></cr>
	Write	Mute On	<cr>*mute=on#<cr></cr></cr>
	Write	Mute Off	<cr>*mute=off#<cr></cr></cr>
	Read	Mute Status	<cr>*mute=?#<cr></cr></cr>
	Write	Volume +	<cr>*vol=+#<cr></cr></cr>
Audio Control	Write	Volume -	<cr>*vol=-#<cr></cr></cr>
	Read	Volume Status	<cr>*vol=?#<cr></cr></cr>
	Write	Mic. Volume +	<cr>*micvol=+#<cr></cr></cr>
	Write	Mic. Volume -	<cr>*micvol=-#<cr></cr></cr>
	Read	Mic. Volume Status	<cr>*micvol=?#<cr></cr></cr>
	Write	Audio pass Through off	<cr>*audiosour=off#<cr></cr></cr>
	Write	Audio-Computer1	<cr>*audiosour=RGB#<cr></cr></cr>
Audio source	Write	Audio-Computer2	<cr>*audiosour=RGB2#<cr></cr></cr>
	Write	Audio-Video/S-Video	<cr>*audiosour=vid#<cr></cr></cr>
select	Write	Audio-Component	<cr>*audiosour=ypbr#<cr></cr></cr>
	Write	Audio-HDMI	<cr>*audiosour=hdmi#<cr></cr></cr>
	Write	Audio-HDMI2	<cr>*audiosour=hdmi2#<cr></cr></cr>

	Read	Audio pass Status	<cr>*audiosour=?#<cr></cr></cr>
	Write	Dynamic	<cr>*appmod=dynamic#<cr></cr></cr>
	Write	Presentation	<cr>*appmod=preset#<cr></cr></cr>
	Write	sRGB	<cr>*appmod=srgb#<cr></cr></cr>
	Write	Bright	<cr>*appmod=bright#<cr></cr></cr>
	Write	Living Room	<cr>*appmod=livingroom#<cr></cr></cr>
Dieture Mede	Write	Game	<cr>*appmod=game#<cr></cr></cr>
Picture Mode	Write	Cinema	<cr>*appmod=cine#<cr></cr></cr>
	Write	Standard	<cr>*appmod=std#<cr></cr></cr>
	Write	User1	<cr>*appmod=user1#<cr></cr></cr>
	Write	User2	<cr>*appmod=user2#<cr></cr></cr>
	Write	User3	<cr>*appmod=user3#<cr></cr></cr>
	Read	Picture Mode	<cr>*appmod=?#<cr></cr></cr>
	Write	Contrast +	<cr>*con=+#<cr></cr></cr>
	Write	Contrast -	<cr>*con=-#<cr></cr></cr>
	Read	Contrast value	<cr>*con=?#<cr></cr></cr>
	Write	Brightness +	<cr>*bri=+#<cr></cr></cr>
	Write	Brightness -	<cr>*bri=-#<cr></cr></cr>
	Read	Brightness value	<cr>*bri=?#<cr></cr></cr>
	Write	Color +	<cr>*color=+#<cr></cr></cr>
	Write	Color -	<cr>*color=-#<cr></cr></cr>
	Read	Color value	<cr>*color=?#<cr></cr></cr>
	Write	Sharpness +	<cr>*sharp=+#<cr></cr></cr>
	Write	Sharpness -	<cr>*sharp=-#<cr></cr></cr>
Picture Setting	Read	Sharpness value	<cr>*sharp=?#<cr></cr></cr>
	\\/rito	Color	<cr>*ct=warmer#<cr></cr></cr>
	Write	Temperature-Warmer	
	Write	Color	<cr>*ct=warm#<cr></cr></cr>
		Temperature-Warm	
	Write	Color	<cr>*ct=normal#<cr></cr></cr>
		Temperature-Normal	
	Write	Color Temperature-Cool	<cr>*ct=cool#<cr></cr></cr>
	Write	Color Temperature-Cooler	<cr>*ct=cooler#<cr></cr></cr>
	Read	Color Temperature Status	<cr>*ct=?#<cr></cr></cr>
	Write	Aspect 4:3	<cr>*asp=4:3#<cr></cr></cr>
	Write	Aspect 16:9	<cr>*asp=16:9#<cr></cr></cr>

		1	T
	Write	Aspect 16:10	<cr>*asp=16:10#<cr></cr></cr>
	Write	Aspect Auto	<cr>*asp=AUTO#<cr></cr></cr>
	Write	Aspect Real	<cr>*asp=REAL#<cr></cr></cr>
	Write	Aspect Letterbox	<cr>*asp=LBOX#<cr></cr></cr>
	Write	Aspect Wide	<cr>*asp=WIDE#<cr></cr></cr>
	Write	Aspect Anamorphic	<cr>*asp=ANAM#<cr></cr></cr>
	Read	Aspect Status	<cr>*asp=?#<cr></cr></cr>
	Write	Digital Zoom In	<cr>*zooml#<cr></cr></cr>
	Write	Digital Zoom out	<cr>*zoomO#<cr></cr></cr>
	Write	Auto	<cr>*auto#<cr></cr></cr>
	Write	Brilliant color on	<cr>*BC=on#<cr></cr></cr>
	Write	Brilliant color off	<cr>*BC=off#<cr></cr></cr>
	Read	Brilliant color status	<cr>*BC=?#<cr></cr></cr>
	Write	Projector Position-Front Table	<cr>*pp=FT#<cr></cr></cr>
	Write	Projector Position-Rear Table	<cr>*pp=RE#<cr></cr></cr>
	Write	Projector Position-Rear Ceiling	<cr>*pp=RC#<cr></cr></cr>
	Write	Projector Position-Front Ceiling	<cr>*pp=FC#<cr></cr></cr>
	Write	Quick auto search	<cr>*QAS=on#<cr></cr></cr>
	Write	Quick auto search	<cr>*QAS=off#<cr></cr></cr>
	Read	Quick auto search status	<cr>*QAS=?#<cr></cr></cr>
Operation	Read	Projector Position Status	<cr>*pp=?#<cr></cr></cr>
Settings	Write	Direct Power On-on	<cr>*directpower=on#<cr></cr></cr>
	Write	Direct Power On-off	<cr>*directpower=off#<cr></cr></cr>
	Read	Direct Power On-Status	<cr>*directpower=?#<cr></cr></cr>
	Write	Signal Power On-on	<cr>*autopower=on#<cr></cr></cr>
	Write	Signal Power On-off	<cr>*autopower=off#<cr></cr></cr>
	Read	Signal Power On-Status	<cr>*autopower=?#<cr></cr></cr>
	Write	Standby	<cr>*standbynet=on#<cr></cr></cr>
		Settings-Network on	
		<u> </u>	
	Write	Standby Settings-Network off	<cr>*standbynet=off#<cr></cr></cr>

		Settings-Network Status	
	Write	Standby	<cr>*standbymic=on#<cr></cr></cr>
		Settings-Microphone on	
	Write	Standby	<cr>*standbymic=off#<cr></cr></cr>
		Settings-Microphone off	
	Read	Standby	<cr>*standbymic=?#<cr></cr></cr>
		Settings-Microphone Status	
	Write	Standby Settings-Monitor Out on	<cr>*standbymnt=on#<cr></cr></cr>
	Write	Standby Settings-Monitor Out off	<cr>*standbymnt=off#<cr></cr></cr>
	Read	Standby Settings-Monitor Out Status	<cr>*standbymnt=?#<cr></cr></cr>
	Write	2400	<cr>*baud=2400#<cr></cr></cr>
	Write	4800	<cr>*baud=4800#<cr></cr></cr>
	Write	9600	<cr>*baud=9600#<cr></cr></cr>
	Write	14400	<cr>*baud=14400#<cr></cr></cr>
Baud Rate	Write	19200	<cr>*baud=19200#<cr></cr></cr>
	Write	38400	<cr>*baud=38400#<cr></cr></cr>
	Write	57600	<cr>*baud=57600#<cr></cr></cr>
	Write	115200	<cr>*baud=115200#<cr></cr></cr>
	Read	Current Baud Rate	<cr>*baud=?#<cr></cr></cr>
	Read	Lamp Hour	<cr>*Itim=?#<cr></cr></cr>
	Read	Lamp2 Hour	<cr>*ltim2=?#<cr></cr></cr>
	Write	Normal mode	<cr>*lampm=lnor#<cr></cr></cr>
	Write	Eco mode	<cr>*lampm=eco#<cr></cr></cr>
	Write	Smart Eco mode	<cr>*lampm=seco#<cr></cr></cr>
Lamp Control	Write(雙燈)	Dual Brightest	<cr>* lampm =dualbr#<cr></cr></cr>
	Write(雙燈)	Dual Reliable	<cr>* lampm =dualre#<cr></cr></cr>
	Write(雙燈)	Single Alternative	<cr>* lampm =single#<cr></cr></cr>
	Write(雙燈)	Single Alternative Eco	<cr>* lampm =singleeco#<cr></cr></cr>
	Read	Lamp Mode Status	<cr>*lampm=?#<cr></cr></cr>
	Read	Model Name	<cr>*modelname=?#<cr></cr></cr>
Miscellaneous	Write	Blank On	<cr>*blank=on#<cr></cr></cr>
Wilscellalleous	Write	Blank Off	<cr>*blank=off#<cr></cr></cr>
	Read	Blank Status	<cr>*blank=?#<cr></cr></cr>

Write	Freeze On	<cr>*freeze=on#<cr></cr></cr>
Write	Freeze Off	<cr>*freeze=off#<cr></cr></cr>
		<cr>*freeze=?#<cr></cr></cr>
		<cr>*menu=on#<cr></cr></cr>
Write	Menu Off	<cr>*menu=off#<cr></cr></cr>
Write	Up	<cr>*up#<cr></cr></cr>
Write	Down	<cr>*down#<cr></cr></cr>
Write	Right	<cr>*right#<cr></cr></cr>
Write	Left	<cr>*left#<cr></cr></cr>
Write	Enter	<cr>*enter#<cr></cr></cr>
Write	3D Sync Off	<cr>*3d=off#<cr></cr></cr>
Write	3D Sync Top Bottom	<cr>*3d=tb#<cr></cr></cr>
Write	3D Sync Frame	<cr>*3d=fs#<cr></cr></cr>
	Sequential	
Read	3D Sync Status	<cr>*3d=?#<cr></cr></cr>
Write	Remote	<cr>*rr=fr#<cr></cr></cr>
	Receiver-front+rear	
Write	Remote Receiver-front	<cr>*rr=f#<cr></cr></cr>
Write	Remote Receiver-rear	<cr>*rr=r#<cr></cr></cr>
Read	Remote Receiver Status	<cr>*rr=?#<cr></cr></cr>
Write	Instant On-on	<cr>*ins=on#<cr></cr></cr>
Write	Instant On-off	<cr>*ins=off#<cr></cr></cr>
Read	Instant On Status	<cr>*ins=?#<cr></cr></cr>
Write	Lamp Saver Mode-on	<cr>*lpsaver=on#<cr></cr></cr>
Write	Lamp Saver Mode-off	<cr>*lpsaver=off#<cr></cr></cr>
Read	Lamp Saver Mode Status	<cr>*lpsaver=?#<cr></cr></cr>
\\/rito	Projection Log In Code	<cr>*prjlogincode=on#<cr></cr></cr>
Write	on	
Write	Projection Log In Code	<cr>*prjlogincode=off#<cr></cr></cr>
VVIILE	off	
Read	Projection Log In Code	<cr>*prjlogincode=?#<cr></cr></cr>
Neau	Status	
Write	Broadcasting on	<cr>*broadcasting=on#<cr></cr></cr>
Write	Broadcasting off	<cr>*broadcasting=off#<cr></cr></cr>
Read	Broadcasting Status	<cr>*broadcasting=?<cr></cr></cr>
Write	AMX Device	<cr>*amxdd=on#<cr></cr></cr>

	Discovery-on	
Write	AMX Device	<cr>*amxdd=off#<cr></cr></cr>
	Discovery-off	
Read	AMX Device Discovery	<cr>*amxdd=?#<cr></cr></cr>
	Status	
Read	Mac Address	<cr>*macaddr=?#<cr></cr></cr>
Write	High Altitude mode on	<cr>*Highaltitude=on#<cr></cr></cr>
Write	High Altitude mode off	<cr>*Highaltitude=off#<cr></cr></cr>
Read	High Altitude mode	<cr>*Highaltitude=?#<cr></cr></cr>
	status	