



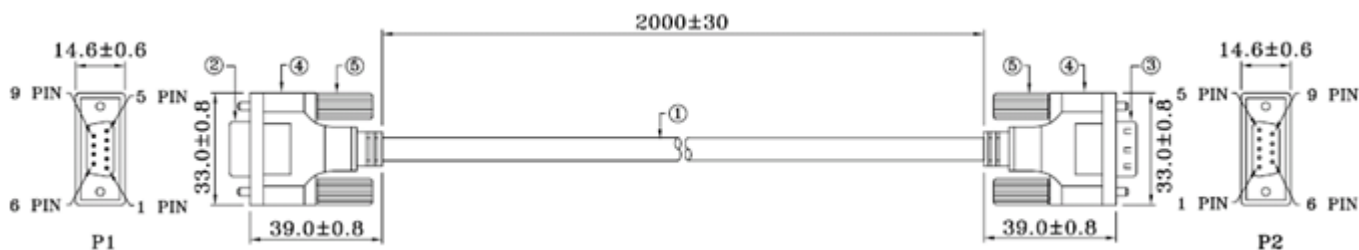
BenQ RS232 Commands

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1. RS232 Cable Requirement and Pin Assignment

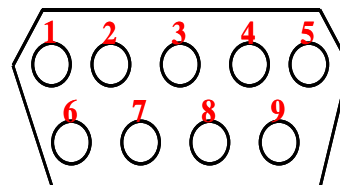
Cable Requirement:



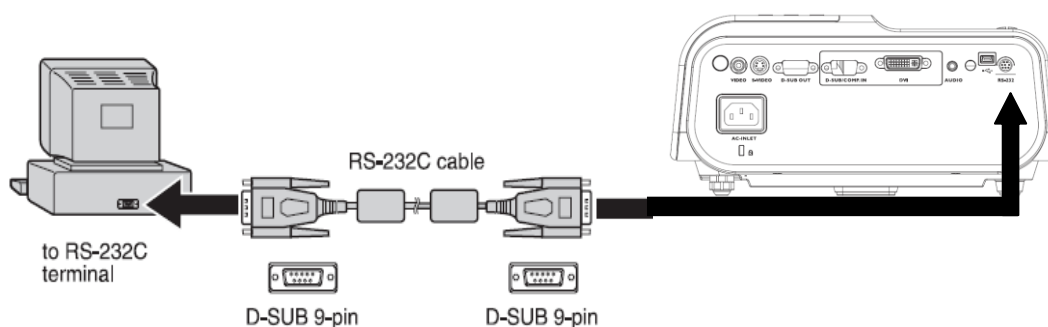
| WIRE ARRANGEMENT | | |
|------------------|------------|------|
| P1 | COLOR | P2 |
| 1 | BLACK | 1 |
| 2 | BROWN | 3 |
| 3 | RED | 2 |
| 4 | ORANGE | 4 |
| 5 | YELLOW | 5 |
| 6 | GREEN | 6 |
| 7 | BLUE | 7 |
| 8 | PURPLE | 8 |
| 9 | GRAY | 9 |
| CASE | DRAIN WIRE | CASE |

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

| | | | |
|----------------------------|-------|------------------------|-----------------------------|
| | Read | Volume Status | <CR>*vol=?#<CR> |
| | Write | Mic. Volume + | <CR>*micvol=+#<CR> |
| | Write | Mic. Volume - | <CR>*micvol=-#<CR> |
| | Read | Mic. Volume Status | <CR>*micvol=?#<CR> |
| Audio source select | Write | Audio pass Through off | <CR>*audiosour=off#<CR> |
| | Write | Audio-Computer1 | <CR>*audiosour=RGB#<CR> |
| | Write | Audio-Computer2 | <CR>*audiosour=RGB2#<CR> |
| | Write | Audio-Video/S-Video | <CR>*audiosour=vid#<CR> |
| | Write | Audio-Component | <CR>*audiosour=ypbr#<CR> |
| | Write | Audio-HDMI | <CR>*audiosour=hdm#<CR> |
| | Write | Audio-HDMI2 | <CR>*audiosour=hdm2#<CR> |
| | Read | Audio pass Status | <CR>*audiosour=?#<CR> |
| Picture Mode | Write | Dynamic | <CR>*appmod=dynamic#<CR> |
| | Write | Presentation | <CR>*appmod=preset#<CR> |
| | Write | sRGB | <CR>*appmod=srgb#<CR> |
| | Write | Bright | <CR>*appmod=bright#<CR> |
| | Write | Living Room | <CR>*appmod=livingroom#<CR> |
| | Write | Game | <CR>*appmod=game#<CR> |
| | Write | Cinema | <CR>*appmod=cine#<CR> |
| | Write | Standard | <CR>*appmod=std#<CR> |
| | Write | User1 | <CR>*appmod=user1#<CR> |
| | Write | User2 | <CR>*appmod=user2#<CR> |
| | Write | User3 | <CR>*appmod=user3#<CR> |
| | Read | Picture Mode | <CR>*appmod=?#<CR> |
| Picture Setting | Write | Contrast + | <CR>*con=+#<CR> |
| | Write | Contrast - | <CR>*con=-#<CR> |
| | Read | Contrast value | <CR>*con=?#<CR> |
| | Write | Brightness + | <CR>*bri=+#<CR> |
| | Write | Brightness - | <CR>*bri=-#<CR> |
| | Read | Brightness value | <CR>*bri=?#<CR> |
| | Write | Color + | <CR>*color=+#<CR> |
| | Write | Color - | <CR>*color=-#<CR> |
| | Read | Color value | <CR>*color=?#<CR> |
| | Write | Sharpness + | <CR>*sharp=+#<CR> |
| | Write | Sharpness - | <CR>*sharp=-#<CR> |
| | Read | Sharpness value | <CR>*sharp=?#<CR> |

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

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

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

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