

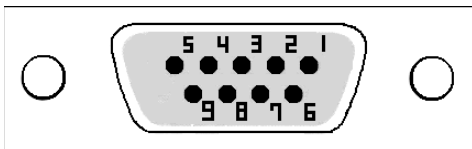
RS232C Command Protocol

-RS232 Control

-Communication Protocol

Items	Specification
Standard Baud rate	9600 bps
Data length	8 bits
Parity	None
Stop bit	1 bit
Flow Control	None

-RS232 Cable Define



Pin	Signal name	Pin	Signal name
1	CD	6	DSR
2	RX 2	7	RTS
3	TX 3	8	CTS
4	DTR	9	RI
5	GND 5		

-Command Transference Protocol

- The projector command is defined one command/one line that starts “C” and ends carriage return “CR”.
- There are two types of command, functional execution commands and status read commands.
- Response for status read command after accepting has different character.

Note :

As using some software of RS232 communication, the lamp (RED) LED indicator of the projector will be lighted. It is normal status for projector.

Example:

- Functional execution command

- Power ON (C00) command is sent to the projector with a CR, the projector returns a ACK (*1) CR (*3) or NAK(*2) CR code., ,

Command (ASCII)

PC → Projector “C” “0” “0” “CR”



CR0 (43 52 30 0D) #1	POWER-STATUS	STATUS feedback "000" - projector is on "800" - projector is standby "200" - projector is cooling down "500" - projector is warm up
CR1 (43 52 31 0D)	SOURCE-STATUS	STATUS feedback "001" - COMPUTER1 "002" - DVI "003" - COMPUTER2 "010" - VIDEO "020" - S-VIDEO "004" - YPbPr
CR2 (43 52 32 0D) #1	LAMP TIMER-STATUS	STATUS feedback "xxxxxxx Mins" – Lamp usage time on minutes
CR3 (43 52 32 0D) #1	FILTER TIMER-STATUS	STATUS feedback "xxxxxxx Mins" – Filter usage time on minutes
CR9 (43 52 39 0D) #1	SYSTEM ERROR CODE	A : Lamp temperature switch fail B : Lamp cover switch fail C : Lamp/Ballast fail D : Fan: Exhaust fan fail E : Fan: Lamp blower fail F : Fan: Image blower fail G : Inlet temp sensor fail H : Image temp sensor fail I : Lamp temp sensor fail J : Over temp : Inlet temp sensor K : Over temp : Image temp sensor *4 L : Over temp : Lamp temp sensor M : Blank feature time out N : No signal time out

Note:

*1 ACK (acknowledge) is 0x06 in hexadecimal.

*2 NAK (negative acknowledge) is 0x15 in hexadecimal.

*3 CR (carriage return) is 0x0D in hexadecimal.

#1 At standby mode, only these commands can be accepted.

(All the above commands are available at normal operation mode except the "POWER ON" command.)

*4 The temperature of image temp sensor – Inlet temp sensor is greater than 18 degree Celsius.