

HOME THEATER DLP™ PROJECTOR HC2000

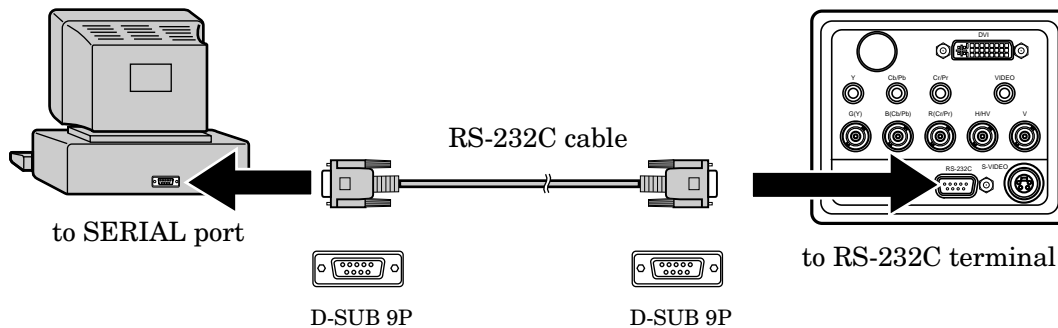
Controlling the projector using a personal computer

This projector can be controlled by connecting a personal computer with RS-232C terminal.

PC-controllable functions :

- Turning the power ON or OFF
- Changing input signals
- Menu setting

Connection



Important:

- Adapters may be necessary depending on the PC connected to this projector. Contact your dealer for details.
- Make sure that your computer and projector are turned off before connection.
- Turn on the personal computer and put the control software in the standby state before turning on the projector.
- This projector uses RXD, TXD and GND lines for RS-232C control.
- For RS-232C cable, the reverse type cable should be used.

1) Communication setting

Connection settings	Value
Baud Rate	9600 [bps]
Data Bits	8 [bits]
Parity	None
Stop Bits	1 [bit]
Flow Control	None

Emulation settings	Value
Emulation	ANSI

ASCII settings	Value
ASCII sending	
Sending line ends with line feeds	Enable
Echo typed characters locally	Enable
Line delay (milliseconds)	400
Character delay (milliseconds)	0
ASCII Receiving	
Append line feeds to incoming line ends	Disable
Force incoming data to 7-bit ASCII	Disable
Wrap lines that exceed terminal width	Enable

2) Power-On command

The command consists of the command code only.

Control command List

Command code	Command Description
OKOKOKOKOK	Power ON

[Example] When turning the power ON:

Control commands	Description
'O' 'K' 'O' 'K' 'O' 'K' 'O' 'K' 'O' 'K'	Command for POWER ON (From PC to Projector)

- Send the Power-On command immediately after turning on the main power switch of the projector. The Power-On command will not be accepted if it is sent after another command or a press of the return key. In this case, turn off and on the main power switch and then send the Power-On command.
- The acknowledgment command is not appeared for Power-On command.

3) Control command

The command consists of the header code, address code, string code, and command code.

Control command Syntax (From PC to Projector)

[H][S][A][S][STRING][S][COMMAND][<CR>]

Field	Description	Contents
[H]	Header	'*'
[A]	Address code	'0'
[STRING]	Command head	'T' 'R'
[COMMAND]	3 digits command code	3 digits (Show below)
[<CR>]	Terminator code	Carriage Return
[S]	SPACE code	' '

Control Commands List

Command code	Command Description
002	OFF button
003	SOURCE button
004	AUTO (AUTO POSITION) button
008	MENU button
009	Up (▲) button
010	Down (▼) button
011	Right (▶) button
012	Left (◀) button
013	ENTER button
014	DVI-D button
015	DVI-A button
016	COMP (COMPONENT) button
017	BNC button
018	S-Video button
019	Video button

Acknowledgments commands (From Projector to PC) format

Return command	Description
Receive OK <CR><LF>	Projector receive the command from PC properly
Unknown Command <CR><LF>	Projector receive unknown from PC properly
Invalid Command <CR><LF>	Projector receive invalid command from PC

- The RS-232C commands of this projector basically have the same functions as those of the remote control (with some exceptions). To turn off the power, send the Power Button command twice as in the case of remote control.

[Example] When setting the input signal to S-Video.

Control commands / Acknowledgment commands	Description
*' ' '0' ' ' 'T' 'R' ' ' '0' '1' '8' <CR>	Command for setting the input signal to S-video (From PC to Projector)
'R' 'e' 'c' 'e' 'i' 'v' 'e' ' ' 'O' 'K' <CR>' <LF>	Command receipt confirmation (From Projector to PC)