0.7" Wide Video

BASIC SERIAL COMMAND

FUNCTIONAL SPECIFICATIONS

PLV-Z4

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1 Overview

- 1.1 These specifications define projector control commands for PLV-Z4 (0.7" Wide Video Mode).
- 1.2 The projector control commands are used to control a projector through RS-232C from a computer.

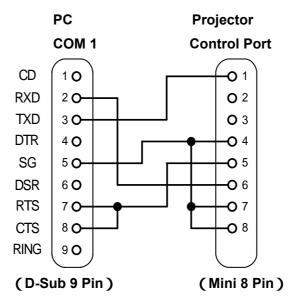
2 Serial Interface Specification

Items	Specification
Synchronous system	Asynchronous
Transmission Speed	9600 / 19200
Data Length	8 bit
Parity	N/A
Stop Bit	1
Flow Control	N/A

- 1) Transmission speed: initial setting value is 19200.
- 2) Transmission speed can be changed in service mode.

3 Connection

Dedicated serial cable that comes with the projector must be used for a connection to a computer and a projector.



4 Notes for Communication

- 4.1 The projector command is defined as one command/one line that starts with "C" and ends with carriage return (0x0D).
- 4.2 When the projector receives carriage return, it starts decoding.
- 4.3 There are two types of commands: Functional Execution Commands and Status Read Commands.

Example of Functional Execution Command: "C05" [CR]

Example of Status Read Command: "CR0" [CR]

- 4.4 It clears the information of buffer as below.
 - 4.4.1 When the projector receives LF (0x0A) or EOF (0x1A).
 - 4.4.2 When it takes more than one second to receive one command.

(Until the projector returns carriage return since it has received the first data.)

- 4.5 When control command pipelining, wait the interval of time after the response as below.
 - 4.5.1 [VOLUME +/-] Commands 100ms
 - 4.5.2 Other Commands 500ms
- 4.6 When Status Read command pipelining, wait at least 500ms after the response.
- 4.7 Do not issue any command before receiving the response except there is no response for 5 seconds.
- 4.8 It takes about 7 seconds for the internal initialization after plugging in AC. During this time, it cannot process commands. Do not issue any command.
- 4.9 For 7 seconds after Power ON from Standby, the projector receives a command and returns the response but does not execute it because of the internal initialization or Lamp processing. However, Status Read Commands are carried out after 500 ms when receiving the response to Power ON command.
- 4.10 About Count Down and the performance during Cooling Down:

When receiving a command during Count Down after Power ON or Cooling Down after Power OFF, the projector returns the response but does not carry it out. However, Status Read Commands are carried out.

4.11 The performance for switching Input:

It takes 5 seconds to switch Input after receiving the command. When receiving the command during this time, it is not executed. However, Status Read Commands are carried out after 500ms since it receives the response to switching Input command.

- 4.12 The number of character of response to Status Read Commands depends on commands. Please see [8. Status Read Commands].
- 4.13 Characters for commands must be Capital (A Z).

5 Functional Execution Command Table

Command	Item	Command	Item
C00	POWER ON	C28	
	POWER OFF		
C01	(QUICK POWER OFF)	C29	
C02	POWER OFF	C2A	Power Management ON
C03		C2B	Power Management OFF
C04		C2C	Screen Zoom size
C05		C2D	Screen Natural wide 1
C06		C2E	Screen Natural wide 2
C07		C2F	
C08		C30	
C09		C31	
C0A		C32	
C0B		C33	
C0C		C34	
C0D	VIDEO MUTE ON	C35	
C0E	VIDEO MUTE OFF	C36	
C0F	Screen Normal size	C37	
C10	Screen Full size	C38	
C11	Image Living	C39	
C12	Image Creative Cinema	C3A	Point Right
C13	Image Pure Cinema	C3B	Point Left
C14	Image 1	C3C	Point Up
C15	Image 2	C3D	Point Down
C16	Image 3	C3E	
C17	Image 4	C3F	ENTER
C18	Image Vivid	C40	
C19	Image Dynamic	C41	
C1A	Image Powerful	C42	
C1B	Image Natural	C43	
C1C	MENU ON	C44	
C1D	MENU OFF	C45	
C1E	DISPLAY CLEAR	C46	
C1F		C47	
C20		C48	
C21		C49	
C22		C4A	
C23	Video Source Video	C4B	
C24	Video Source S-Video	C4C	
C25	Video Source Component 1	C4D	
C26	Video Source Component 2	C4E	
C27		C4F	

[&]quot;———" means "No Function".

Command	Item	Command	Item
C50	Computer (Analog RGB)	C78	Rear ON
C51	Computer (Scart)	C79	Rear OFF
C52			Logo OFF
C53			Logo Default
C54		C7C	Logo User
C55		C7D	Logo Capture
C56		C7E	
C57		C7F	
C58		C80	
C59		C81	
C5A		C82	
C5B		C83	
C5C		C84	
C5D		C85	
C5E		C86	
C5F		C87	
C60		C88	
C61		C89	Auto PC Adj.
C62		C8A	
C63	Screen Caption IN size	C8B	
C64		C8C	
C65	Screen Full through size	C8D	
C66	Screen Normal through size	C8E	Keystone ↑
C67	D4 control ON	C8F	Keystone ↓
C68	D4 control OFF	C90	
C69		C91	
C6A		C92	
C6B		C93	
C6C		C94	
C6D		C95	
C6E		C96	
C6F		C97	
C70		C98	
C71		C99	
C72	Lamp mode Auto 1	C9A	
C73	Lamp mode Auto 2	C9B	
C74	Lamp mode Normal	C9C	
C75	Lamp mode Eco	C9D	
C76	Ceiling ON	C9E	
C77	Ceiling OFF	C9F	
""""	cone "No Function"	CDC	

[&]quot;---" means "No Function".

6 Status Read Command Table

Command	Item	Memo
CR0	Status Read	
CR1	Input Mode Read	
CR2		
CR3	Lamp Time Read	
CR4	Setting Read	
CR5		
CR6	Temp Read	
CR7		
CR8		
CR9		
CRA		
CRB		
CRC		

[&]quot; means "No Function".

7 Functional Execution Command

7.1 Format

7.1.1 PC issues a command in format as below.

"C" COMMAND [CR]

Command: two characters (See Basic Functional Execution Command Table)

7.1.2 A projector changes received data to decode and returns a result after being ready to receive next command.

[ACK] [CR]: (0x06, 0x0D) When received Functional Execution Commands.

"?" [CR]: When the received data cannot be decoded.

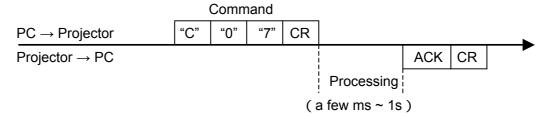
7.2 Command Pipelining

When some functions need the command pipelining, the performance is the same as that of the remote control.

- 7.2.1 System: issue any command every 100 ms.
- 7.2.2 When receiving the appropriate command, the function is executed for 120 ms from the moment.
- 7.2.3 When receiving the same command continuously within 120 ms, the function is executed for another 120 ms from the moment.
- 7.2.4 When there is no incoming command after 120 ms, the execution of pipelining is stopped.
- 7.2.5 When the projector receives other incoming commands within 120ms, the execution of pipelining is stopped.

7.3 Transfer Example

Switch input mode for the projector to Video Mode with Basic Command.



7.4 Operation Requirements

The projector cannot return any response for about two seconds after AC power ON because of the initialization.

When the projector's status is as below, Functional Execution Commands are limited.

(Status Read Commands are available in this status except Standby Mode)

Projector Mode	Available Functional Execution Commands
Super Standby Mode	Impossible to respond
Normal Standby Mode	CR6 : Temperature information read command is unavailable (Commands related to S5V series are also unavailable)
Processing Cooling Down	C00 : POWER ON (Countdown is terminated)
Cooling Down due to Abnormal Temperature	NONE
Abnormal Temperature Status	NONE
Switching Mode	NONE
Processing Power Save / Cooling Down	NONE
Processing Logo Capture / Displaying Captured Logo	NONE
Power Save Status	Only key operation commands are available

Note) 1) When the status is above, even if the projector receives other commands, it returns [ACK] [CR].

2) Super Standby mode is set as Factory Default and impossible to control by RS232C while the projector is turned OFF. Make sure to switch from Service Mode to Normal Standby Mode as below.

(However, more standby energy is consumed in Normal Standby Mode.)

Group: 100 Item: 4 (Super Standby mode)

0: Normal Standby Mode

1 : Super Standby Mode (Factory Default)

7.5 **POWER ON Command**

COMMAND	"C00" [CR]		
Details	Power ON When already Power is ON, no need to do When sending this command during processing Countdown, Countdown is terminated		
Response	Acceptable	[ACK] [CR]	
ТСЭРОПЭС	Unacceptable	"?"[CR]	

7.6 **POWER OFF Command** (QUICK POWER OFF)

Command	"C01" [CR]		
Details	Power OFF(Standby) When Power is OFF with ON-OFF button of the projector and remote control, "Power Off?" is displayed. However, as soon as this command is sent, Quick Power OFF is executed		
Response	Acceptable	[ACK] [CR]	
ТСОРОПОС	Unacceptable	"?"[CR]	

7.7 **POWER OFF Command**

Command	"C02"[CR]		
Details	Power OFF(Standby) When Power is OFF with ON-OFF button of the projector and remote control, "Power OFF" is displayed (When sending this command, "Power OFF?" is displayed. When resending this command during this time, Power OFF is executed)		
Response	Acceptable	[ACK] [CR]	
response	Unacceptable	"?"[CR]	

7.8 VIDEO MUTE ON Command

Command	"C0D"[CR]		
Details	Black out an image The same operation as "NO SHOW" button of the remote control for No Show On, but it does not work for No Show OFF		
Response	Acceptable	[ACK] [CR]	
recoporise	Unacceptable	"?"[CR]	

7.9 VIDEO MUTE OFF Command

Command	"C0E"[CR]		
Details	Restore an image The same operation as "No Show " button of the remote control for No Show Off, but it does not work for No Show On		
Response	Acceptable	[ACK] [CR]	
response	Unacceptable	"?"[CR]	

7.10 Screen Normal size Command

Command	"C0F"[CR]	
Details	Set Computer / Video screen size to Normal	
Response	Acceptable	[ACK] [CR]
1 (COPOTISC	Unacceptable	"?"[CR]

7.11 Screen Full size Command

Command	"C10"[CR] Set Computer / Video screen size to Full screen	
Details		
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.12 Image Living Command

Command	"C11"[CR] Set Image to Living Mode	
Details		
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.13 Image Creative Cinema Command

Command	"C12"[CR]	
Details	Set Image to Creative Cinema Mode	
Response	Acceptable	[ACK] [CR]
Тооропос	Unacceptable	"?"[CR]

7.14 Image Pure Cinema Command

Command	"C13"[CR]	
Details	Set Image to Pure Cinema Mode	
Response	Acceptable	[ACK] [CR]
Теоропос	Unacceptable	"?"[CR]

7.15 Image 1 Command

Command	"C14"[CR]	
Details	Set Image to User Image 1 Mode	
Response	Acceptable	[ACK] [CR]
Тооронос	Unacceptable	"?"[CR]

7.16 Image 2 Command

Command	"C15"[CR]	
Details	Set Image to User Image 2 Mode	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.17 Image 3 Command

Command	"C16"[CR] Set Image to User Image 3 Mode	
Details		
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.18 Image 4 Command

Command	"C17"[CR]	
Details	Set Image to User Image 4 Mode	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.19 Image Vivid Command

Command	"C18"[CR]	
Details	Set Image to Graphics Mode	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.20 Image Dynamic Command

Command	"C19"[CR] Set Image to Dynamic Mode	
Details		
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.21 Image Powerful Command

_		
Command	"C1A"[CR]	
Details	Set Image to Powerful Mode	
Response	Acceptable	[ACK] [CR]
Поэропос	Unacceptable	"?"[CR]

7.22 Image Natural Command

Command	"C1B"[CR]	
Details	Set Image to Natural Mode	
Response	Acceptable	[ACK] [CR]
Тооропос	Unacceptable	"?"[CR]

7.23 MENU ON Command

Command	"C1C"[CR]	
Details	Display Menu of On Screen Display	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.24 MENU OFF Command

Command	"C1D"[CR]	
Details	Clear Menu of On Screen Display	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.25 **DISPLAY CLEAR Command**

Command	"C1E"[CR]	
Details	Clear On Screen Display. Clear all On Screen Display unconditionally	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.26 Video Source VIDEO Command

Command	"C23"[CR]	
Details	Set Input Source to Video	
Response	Acceptable	[ACK] [CR]
ТСОРОПОС	Unacceptable	"?"[CR]

7.27 Video Source S-VIDEO Command

Command	"C24"[CR]	
Details	Set Input Source to S-Video	
Response	Acceptable	[ACK] [CR]
Теоропос	Unacceptable	"?"[CR]

7.28 Video Source COMPONENT 1 Command

Command	"C25"[CR]	
Details	Set Input Source to Component 1	
Response	Acceptable	[ACK] [CR]
Теоропос	Unacceptable	"?"[CR]

7.29 Video Source COMPONENT 2 Command

Command	"C26"[CR]	
Details	Set Input Source to Component 2	
Response	Acceptable	[ACK] [CR]
Теоропос	Unacceptable	"?"[CR]

7.30 Power Management ON Command

Command	"C2A"[CR]	
Details	Set Power Management to ON The status by this command is stored in EEPROM and its setting is effective even after POWER ON/OFF	
Response	Acceptable	[ACK] [CR]
ТСОРОПОС	Unacceptable	"?"[CR]

7.31 Power Management OFF Command

Command	"C2B"[CR]	
Details	Set Power Management to OFF The status by this command is stored in EEPROM and its setting is effective even after POWER ON/OFF	
Response	Acceptable [ACK] [CR]	
response	Unacceptable	"?"[CR]

7.32 Screen Zoom size Command

Command	"C2C"[CR]	
Details	Set Computer / Video screen size to Zoom	
Response	Acceptable	[ACK] [CR]
Response	Unacceptable	"?"[CR]

7.33 Screen Natural wide size 1 Command

Command	"C2D"[CR]	
Details	Set Computer / Video screen size to Natural wide 1	
Response	Acceptable	[ACK] [CR]
reoponee	Unacceptable	"?"[CR]

7.34 Screen Natural wide size 2 Command

Command	"C2E"[CR]	
Details	Set Computer / Video screen size to Natural wide 2	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

7.35 Point Right Command

Command	"C3A"[CR]	
Details	Move Pointer of On Screen Display Menu to the right This command performs the same operation as the right-pointing button (">") of the projector	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

7.36 Point Left Command

Command	"C3B"[CR]	
Details	Move Pointer of On Screen Display to the left This command performs the same operation as the left-pointing button ("<") of the projector	
Response	Acceptable	[ACK] [CR]
Response	Unacceptable	"?"[CR]

7.37 Point Up Command

Command	"C3C"[CR]	
Details	Move Up Pointer of On Screen Display This command performs the same operation as the upward pointer of the projector	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

7.38 Point Down Command

Command	"C3D"[CR]	
Details	Move Down Pointer of On Screen Display This command performs the same operation as the downward pointer of the projector	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

7.39 ENTER Command

Command	"C3F"[CR]	
Details	The same operation as "SELECT" button of the projector and remote control	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

7.40 Computer Source Analog RGB Command

Command	"C50"[CR]	
Details	Set Input Source to Computer (Analog RGB)	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

7.41 Computer Source Scart Command

Command	"C51"[CR]	
Details	Set Input Source to Computer (Scart)	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

7.42 **HDMI Command**

Command	"C53"[CR]	
Details	Set Input Source to HDMI	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

7.43 Screen Caption IN Command

Command	"C63"[CR]	
Details	Set Computer / Video screen size to Caption IN	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

7.44 Screen Full through size Command

Command	"C65"[CR]	
Details	Set Computer / Video screen size to Full through	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.45 Screen Normal through size Command

Command	"C66"[CR]	
Details	Set Computer / Video screen size to Normal through	
Response	Acceptable	[ACK] [CR]
Тооропос	Unacceptable	"?"[CR]

7.46 **D4 control ON Command**

Command	"C67"[CR]	
Details	Set D4 terminal control function (controlling image identifying signal) to ON	
Response	Acceptable	[ACK] [CR]
Теоропос	Unacceptable	"?"[CR]

7.47 **D4** control OFF Command

Command	"C68"(CR)	
Details	Set D4 terminal control function (controlling image identifying signal) to OFF	
Response	Acceptable	[ACK] [CR]
Теоропос	Unacceptable	"?"(CR)

7.48 Lamp mode AUTO 1 Command

Command	"C72" [CR]	
Details	Set Lamp Mode to Auto 1 Mode	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"(CR)

7.49 Lamp mode AUTO 2 Command

Command	"C73" [CR]	
Details	Set Lamp Mode to Auto 2 Mode	
Response	Acceptable	[ACK] [CR]
Пооронос	Unacceptable	"?"(CR)

7.50 Lamp mode NORMAL Command

Command	"C74" [CR]	
Details	Set Lamp Mode to Normal	
Response	Acceptable	[ACK] [CR]
Response	Unacceptable	" ? "(CR)

7.51 Lamp mode ECO Command

Command	"C75" [CR]	
Details	Set Lamp Mode to Eco	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.52 Ceiling ON Command

Command	"C76"[CR]	
Details	Set screen setting to Ceiling ON	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.53 Ceiling OFF Command

Command	"C77"[CR]	
Details	Set screen setting to Ceiling OFF	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.54 Rear ON Command

Command	"C78"(CR)	
Details	Set screen setting to Rear ON	
Response	Acceptable	[ACK] [CR]
Response	Unacceptable	"?"(CR)

7.55 Rear OFF Command

Command	"C79"(CR)	
Details	Set screen setting to Rear OFF	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"(CR)

7.56 Logo OFF Command

Command	"C7A"(CR)	
Details	Set Logo to OFF	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.57 Logo Default Command

Command	"C7B"[CR]	
Details	Set Logo to Default	
Response	Acceptable	[ACK] [CR]
recoporise	Unacceptable	"?"[CR]

7.58 Logo User Command

Command	"C7C"[CR]	
Details	Set Logo to User	
Response	Acceptable	[ACK] [CR]
response	Unacceptable	"?"[CR]

7.59 Logo Capture Command

Command	"C7D"[CR]	
Details	Capture current image as Logo image	
Response	Acceptable	[ACK] [CR]
Пооронос	Unacceptable	"?"[CR]

7.60 AUTO PC Adjust Command

Command	"C89"[CR]	
Details	Execute Auto PC Adj. operation This command performs the same operation as "Auto PC Adj." of Menu. When this command is sent during Auto PC Adj. operation, Auto PC Adj. is suspended. The same operation as "AUTO PC" button of RC	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

7.61 **KEYSTONE** ↑ **Command**

Command	"C8E"[CR]	
Details	Correct keystone distortion. Make the screen image length at the top edge shorter (with small range).	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

$7.62 \hspace{0.1cm} \textbf{KEYSTONE} \downarrow \textbf{Command}$

Command	"C8F"[CR]	
Details	Correct keystone distortion. Make the screen image length at the bottom edge shorter.	
Response	Acceptable	[ACK] [CR]
	Unacceptable	"?"[CR]

8 Status Read Command

8.1 Format

8.1.1 PC issue commands in format as below.

"CR" Command [CR]

Command: 1 character (See Status Read Command Table)

8.1.2 When a projector receives the appropriate command, it returns a character line as the required data.

Required Data [CR]

Required data: A character line (See Status Read Command Table)

8.1.3 When the received data cannot be decoded, the projector returns "?" [CR]

8.2 Transfer Example

Get input mode for projector by basic command

(Shows Computer 1 is selected)

8.3 Status Read Command

Command	"CR0"[CR]	
Details	Get the projector status	
	Acceptable	"%1"[CR]
Response	%1	"00" = Power ON "80" = Standby (Normal Standby)
	Unacceptable	"?"[CR]

[Details for Response]

8.3.1 "00"[CR]

Status: Power ON

Normal image is on-screen.

8.3.2 "80"[CR]

Status: Standby

When the status is normal Standby, Status Read Commands are always available, but Functional Execution Commands are not available except Power ON Command.

8.3.3 "40"[CR]

Status: Processing Countdown

When "Display" in Setting menu is ON and POWER ON is executed, it starts processing Countdown.

When "Display" in Setting menu is OFF, Countdown is canceled and the status moves to Quick Power ON.

8.3.4 "20"[CR]

Status: Processing Cooling down

When the status is Power ON and Power OFF Command ("C01"[CR], "C02"[CR]) is executed, it moves to Cooling down. This status automatically moves to Standby when lamp is turned off and the fan spin finishes after 60 seconds. The fan spin time depends on models.

This function is used to cool down lamps and other optical parts, and is quite important to projector's reliability. During this time, Control Commands are invalid.

8.3.5 "10"[CR]

Status: Power Failure

When the power supply voltage inside the projector reaches abnormal status, the projector is automatically turned off. The projector returns "10"[CR], which shows it

moves to Power OFF status due to power failure.

8.3.6 "28"[CR]

Status: Processing cooling down due to abnormal temperature

When the inside temperature becomes abnormally high, it automatically starts Cooling down. Response for this status is "28"[CR].

Even if the temperature decreases during this process, Cooling down is executed.

8.3.7 "88"[CR]

Status: Standby after Cooling Down due to abnormal temperature

The projector status is restored from abnormal temperature.

When the status moves to Standby after Cooling Down due to abnormal temperature, it returns "88" [CR].

This shows the status turns to Standby because of abnormal temperature and door failure.

This status maintains until next operation is done, When Power On is executed, the information of abnormal temperature is canceled and normal operation is executed.

8.3.8 "24"[CR]

Status: Processing Power Save / Cooling Down

When Power Management function in the Setting menu works and no signal is received for 5 minutes, lamps are turned off and the status goes to Power Save / Cooling Down.

(During this time, the green LED of the projector is off)

During this time, Functional Execution Commands are invalid. (Not executed)

The status moves to Power Save at set hours after the operation of Cooling Down.



8.3.9 "04"[CR]

Status: Power Save

This shows it moves to Power Save status by Power management function in the Setting menu

8.3.10 "21"[CR]

Status: Processing Cooling Down after OFF due to lamp failure

When a projector is turned off because of lamp failure, it starts Cooling Down automatically. It returns "21" [CR].

The response command "21" [CR] maintains during Cooling Down.

8.3.11 "81"[CR]

Status: Standby after Cooling Down due to lamp failure

When the status moves to Standby after Cooling Down due to lamp failure, it returns "81" [CR]. This shows the status turns to Standby because of lamp failure. This status stays until next operation is executed.

When Power ON is executed, the information of lamp failure is canceled and normal operation is executed.

8.4 Input Mode Read Command

Command	"CR1"[CR]	
Details	Get the selected Input	
	Acceptable	"%1"[CR]
Response	%1	"0" = Video is selected "1" = S-Video is selected "2" = Component1 is selected "3" = Component2(D4-Video) is selected "4" = HDMI is selected "5" = omputer(Analog) is selected "6" = Computer(Scart) is selected
	Unacceptable	"?"[CR]

8.5 Lamp Time Read Command

Command	"CR3"[CR]	
Details	Get the total lamp running time	
	Acceptable	"%1"[CR]
Response	%1	5-digit character shows the time. Example: "00410"[CR] = 410Hours
	Unacceptable	"?"[CR]

8.6 **Setting Read Command**

Command	"CR4"[CR]	
Details	Get the screen setting status such as Ceiling / Rear	
	Acceptable	"%1"[CR]
Response	%1	"11"[CR] = Normal Screen Setting "10"[CR] = Picture is top/bottom reversed (Status : Mounting) "01"[CR] = Picture is left/right reversed (Status : Rear) "00"[CR] = Picture is top/bottom and left/right reversed (Status : Ceiling ON)
	Unacceptable	"?"[CR]

8.7 Temp Read Command

Command	"CR6"[CR]	
Details	Get the temperature data inside a projector. With some temperature sensors installed in the projector, it is possible to get all the temperature at once	
	Acceptable	"%1_%2_%3"[CR]
Response	%1 %2 %3	%1 = Temperature of Sensor 1 %2 = Temperature of Sensor 2 %3 = Temperature of Sensor 3 Temperature data is shown as "00.0" When the temperature sinks to "-", the first character is "-" like "-05.5"[CR] When the temperature data returns due to hardware problems, the first character is "E" like "E00.0"[CR] When the status is Standby or it is 10 seconds after Power On, temperature may approach the abnormal status due to ballast lamp's residual heat depending on projectors. So, when the status is Standby or it is 10 seconds after Power On, the process for the abnormal temperature is not executed. The temperature data is "". When some temperature sensors are installed, the projector sends commands continuously. "□31.5 □□35.2 □□32.8"[CR] There is the sensor 1 data, one space, and the sensor 2 data
	Unacceptable	"?"[CR]