

EXPAND SERIAL COMMAND FUNCTIONAL SPECIFICATIONS

LC-X71

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1. Overview

- 1.1 This Functional Specification defines communication with PJ-Net organizer for LC-X71.
- 1.2 Supporting Farmware Ver. 1.x of the projector.
- 1.3 Commands in this document are to communicate with PJ-Net organizer, but most commands are used to control a projector remotely from a computer with RS-232C. Therefore commands in this document are defined as Expand Serial Commands.

2. Serial Interface Specification

2.1 Transfer Specification

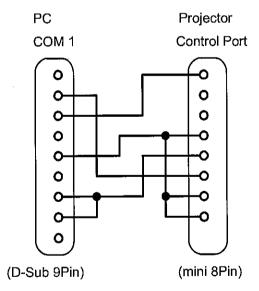
Item	Specification
Synchronous System	Asynchronous
Transmission Speed	9600 / 19200
Data Length	8 bits
Parity	N/A
Stop Bit	1
Flow Control	N/A

Note1) Transmission Speed: initial setting value is 19200

Note2) Transmission Speed can be changed in Service mode.

2.2 Connection

Dedicated serial cables that come with the projector must be used for the connection between a computer and a projector.

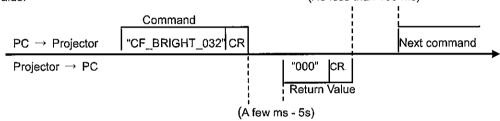


3. Notes for communication

- 3.1 Expand Serial Command is defined as a single command per line that starts with "C" and ends with carriage return (0x0D).
- 3.2 There are two types of commands; Functional Execution Commands and Status Read Command.
 - Example of Functional Execution Command: "CF_BRIGHT_032" [CR]
 - Example of Status Read Command: "CR BRIGHT" [CR]
 - Note) "_" means a space
- 3.3 When it takes more than a second to receive a single command, it is not executed.

When it takes more than a second to receive carriage return (0x0D) since the reception of the first data "C", it clears the information of the receive buffer.

3.4 When the command pipelining, allow the interval time of no less than 100 ms after receiving return value.
(No less than 100 ms)



- 3.4.1 Do not send another command before the reception of the return value; the operation by the commond is not ensured.
- 3.4.2 However this is not the case when no response is returned after more than 5 seconds.
- 3.5 It takes <u>about 5 seconds</u> for internal initialization after plugging in AC power. During this time, it cannot process commands. Do not issue any command.

4. Notation Convention

- 4.1 Data from a controller to a projector is represented as COMMAND, and data from a projector to a controller in response to the incoming command is represented as RESPONSE.
- 4.2 [CR]: Carriage Return Code

Carriage Return code is added to the end of the command.

Response is also followed by carriage return code.

4.3 _: Space Code

Space Code is represented as (_).

4.4 %1: Parameter included in Command

When there are more than one parameter, they are defined as %2, %3...

4.5 %%%: Error Code returned from a projector

Acceptable: "000".

Unacceptable: See [7. Error Code Table].

5. Functional Execution Command Table

5.1 Image Command Table

Execute command	ltem
CF_BRIGHT_%1 [CR]	Set value of Brightness
CF_CONT_%1 [CR]	Set value of Contrast
CF_COLOR_%1 [CR]	Set value of Color
CF_TINT_%1 [CR]	Set value of Tint
CF_SHARP_%1 [CR]	Set value of Sharpness
CF_GAMMA_%1 [CR]	Set value of Gamma
CF_WBAL-R_%1 [CR]	Set Red value of White Balance
CF_WBAL-G_%1 [CR]	Set Green value of White Balance
CF_WBAL-B_%1 [CR]	Set Blue value of White Balance
CF_COLTEMP_%1 [CR]	Set level of Color Temprature
CF_NZRED_%1 [CR]	Set ON/OFF of Noise reduction
CF_PROGV_%1 [CR]	Set mode of Progressive scan
CF_IMAGE_%1 [CR]	Set Image mode
CF_IMAGEADJ_%1 [CR]	Set Store/Reset of values in Image Adjustment
CF_APCTRL_%1 [CR]	Set level of Auto Picture Control
CF_COLMNSAV_%1 [CR]	Set area to store current values of Color Management
CF_COLMNLD_%1 [CR]	Set area to load values of Color Management

5.2 PC Adjust Control Command Table

Execute command	Item
CF_FSYNC_%1 [CR]	Set value of Fine Sync
CF_TDOTS_%1 [CR]	Set value of Total Dots
CF_CLPPHASE_%1 [CR]	Set value of Clamp Phase
CF_CLPWIDTH_%1 [CR]	Set value of Clamp Width
CF_H-POS_%1 [CR]	Set value of Horizontal Position
CF_V-POS_%1 [CR]	Set value of Vertical Position
CF_DDOTS_%1 [CR]	Set value of Display Dots
CF_DLINE_%1 [CR]	Set value of Display Line
CF_SETPCADJ_%1 [CR]	Apply values set in PC Adjust menu to screen image
CF_ORGMODE_%1 [CR]	Specify the original signal for PC mode
CF_PCSTORE_%1 [CR]	Store current setting values in PC Adjust menu to Mode %1
CF_PCMODEFREE_%1 [CR]	Delete the values registered in Mode %1 and return it to Free status.

5.3 Input Control Command Table

Execute command	ltem
CF_INPUT_%1 [CR]	Select Input
CF_SOURCE_%1 [CR]	Select Source of selected Input
CF_INPUT1_%1 [CR]	Select Input1 and also set input source to %1
CF_INPUT2_%1 [CR]	Select Input2 and also set input source to %1
CF_INPUT3_%1 [CR]	Select Input3 and also set input source to %1
CF_INPUT4_%1 [CR]	Select Input4 and also set input source to %1
CF_SYSTEM_%1 [CR]	Select System of curretnity selected input

5.4 Screen Control Command Table

Execute command	ltem
CF_SCREEN_%1 [CR]	Select Screen size
CF_DZCENT _%1 [CR]	Cancel Digital Zoom mode
CF_KEYSTONE _%1 [CR]	Set Keystone correction

CF_KYSTNMODE _%1 [0	CR]	Set Keystone store mode

5.5 Lamp Command Table

Execute command	Item
CF_LAMPH_%1 [CR]	Reset total running time for each lamp
CF_LAMPMODE_%1 [CR]	Select Lamp mode

5.6 Sound Command Table

Execute command	ltem
CF_VOLUME_%1 [CR]	Set value of Volume
CF_MUTE_%1 [CR]	Set ON/OFF of Sound Mute
CF_BLTINSP_%1 [CR]	Set ON/OFF of Built-in speaker

5.7 Setting Command Table

Execute command	ltem
CF_BACKGND_%1[CR]	Select screen for no signal
CF_DISP_%1 [CR]	Set ON/OFF of On Screen Display
CF_LOGO_%1 [CR]	Set PIN code and mode for Logo
CF_CEIL_%1 [CR]	Set ON/OFF of Ceiling
CF_REAR_%1 [CR]	Set ON/OFF of Rear
CF_RCODE_%1 [CR]	Select Remote Control Code
CF_LANG_%1 [CR]	Select language for OSD
CF_ON-STA_%1 [CR]	Set ON/OFF of Power ON Start
CF_P-MANE_%1 [CR]	Set Power Management function
CF_P-MANETIME_%1 [CR]	Set time of Power Management
CF_FANSPEED_%1 [CR]	Set level of Fan Speed
CF_KEYDIS_%1 [CR]	Prohibit RC/KEY control
CF_FDEFAULT_%1 [CR]	Reset to Factory Default settings
CF_PJPINCODE_%1[CR]	Enter PJ PIN code to cancel PJ lock
CF_ANAMORPHIC_%1[CR]	Set ON/OFF of Anamorphic

5.8 Other Command Table

Execute command	Item
CF_KEYEMU_%1 [CR]	The same operation as RC/Control Key
CF_MENU_%1 [CR]	Set ON/OFF of Menu
CF_POWER_%1 [CR]	Set ON/OFF of Power
CF_FREEZE_%1 [CR]	Set ON/OFF of Freeze

6. Status Read Command Table

6.1 Image Status Read Command Table

Status Read command	ltem
CR_BRIGHT [CR]	Get value of Brightness
CR_CONT [CR]	Get value of Contrast
CR_COLOR [CR]	Get value of Color
CR_TINT [CR]	Get value of Tint
CR_SHARP [CR]	Get value of Sharpness
CR_GAMMA [CR]	Get value of Gamma
CR_WBAL-R [CR]	Get Red value of White Balance
CR_WBAL-G [CR]	Get Green value of White Balance
CR_WBAL-B [CR]	Get Blue value of White Balance
CR_COLTEMP [CR]	Get value of Color temperature
CR_NZRED [CR]	Get setting status of Noise reduction
CR_PROGV [CR]	Get setting status of Progressive scan
CR_IMAGE [CR]	Get Selected Image status
CR_IMGGMD [CR]	Get setting value of Image Gamma
CR_APCTRL [CR]	Get setting status of Auto Picture Control

6.2 PC Adjust Status Read Command Table

Status Read command	ltem
CR_FSYNC [CR]	Get setting value of Fine Sync
CR_TDOTS [CR]	Get setting value of Total Dots
CR_CLPPHASE [CR]	Get setting value of Clamp phase
CR_CLPWIDTH [CR]	Get setting value of Clamp width
CR_H-POS [CR]	Get setting value of Horizontal Position
CR_V-POS [CR]	Get setting value of Vertical Position
CR_DDOTS [CR]	Get setting value of Display Dots
CR_DLINE [CR]	Get setting value of Display Line
CR_ORGMODE [CR]	Get the original signal for PC-Adjusted mode
CR_PCSTORE [CR]	Get status Free/ Stored for PC Adj. mode 1-10
CR_SETPCADJ [CR]	Get currently displayed PC signal in system

6.3 Video Status Read Command Table

Status Read command	Iter	n
CR_SERSYS [CR]	Get currently selected signal. result by Auto detection.	In Auto mode, it returns a

6.4 Input Status Read Command Table

Status Read command	Item
CR_INPUT [CR]	Get selected Input
CR_SOURCE [CR]	Get selected Source
CR_SRCINP1 [CR]	Get selected source for Input 1
CR_SRCINP2 [CR]	Get selected source for Input 2
CR_SRCINP3 [CR]	Get selected source for Input 3
CR_SRCINP4 [CR]	Get selected source for Input 4
CR_SYSTEM [CR]	Get selected system in current Input mode
CR_SYSLIST [CR]	Get possible system list
CR_MODELIST [CR]	Get possible mode list
CR_HMSLOT [CR]	Get total number of inputs
CR_NMSLOT1 [CR]	Get terminal information of Input1.
CR_NMSLOT2[CR]	Get teminial information of Input2.
CR_NMSLOT3[CR]	Get terminal information of Input3
CR_NMSLOT4[CR]	Get terminal information of Input4.
CR_IDSLOT1[CR]	Get ID information of Input1

CR_IDSLOT2[CR]	Get ID information of Input2
CR_IDSLOT3[CR]	Get ID information of Input3
CR_IDSLOT4[CR]	Get ID information of Input4

6.5 Screen Status Read Command Table

Status Read command	ltem
CR_SCREEN [CR]	Get selected screen size
CR_KYSTNMODE [CR]	Get selected Keystone store mode

6.6 Lamp Status Read Command Table

Status Read command	Item
CR_LAMPREPL [CR]	Get information of Lamp replacement time
CR_LAMPH [CR]	Get information of actual Lamp runnig time
CR_LAMPCORRESPH [CR]	Get lamp running time multiplied by a coefficient
CR_LAMPMODE [CR]	Get selected Lamp mode
CR_PROJH [CR]	Get total running time of projector

6.7 Sound Status Read Command Table

Status Read command	Item
CR_VOLUME[CR]	Get value of Volume
CR_MUTE[CR]	Get setting status of Sound Mute
CR_BLTINSP[CR]	Get setting status of Built-in speaker

6.8 Setting Status Read Command Table

Status Read command	ltem
CR_BACKGND [CR]	Get setting status of Screen for no signal
CR_DISP [CR]	Get setting status of Display
CR_LOGO [CR]	Get setting status of Logo
CR_LOGOLOCK[CR]	Get setting status of Logo Lock
CR_CEIL [CR]	Get setting status of Ceiling
CR_REAR [CR]	Get setting status of Rear
CR_RCODE [CR]	Get selected Remote Control code
CR_RTYPE [CR]	Get supported Remote Control type (IR/RF)
CR_LANG [CR]	Get selected language
CR_ON-STA [CR]	Get ON Start setting status
CR_P-MANE [CR]	Get Power management setting status
CR_P-MANETIME [CR]	Get setting time for Power Management
CR_FANSPEED [CR]	Get selected Fan Control Speed
CR_KEYDIS [CR]	Get RC/KEY prohibited status
CR_SECURITY [CR]	Get setting status of Security
CR_PJLOCKNOW [CR]	Get setting status of current PJ Lock
CR_PJLOCKMENU [CR]	Get PJ Lock setting status on the menu
CR_ANAMORPHIC [CR]	Get setting status of Anamorphic

6.9 Other Status Read Command Table

Status Read command	Item
CR_STATUS [CR]	Get operating status of Projector
CR_PRESSURE [CR]	Get air pressure information.
CR_SIGNAL [CR]	Get status of singal existence
CR_VMUTE [CR]	Get setting status of No show
CR_FREEZE [CR]	Get setting status of Freeze
CR_ALLPFAIL [CR]	Get all information of Power Failure
CR_HMPFAIL [CR]	Get total number of detectable Power Failure

CR_PFAIL01 [CR]	Get Item name of Power Failure No.01 and error status
CR_PFAIL02 [CR]	Get Item name of Power Failure No.02 and error status
j i	
CR_PFAIL50 [CR]	Get Item name of Power Failure No.50 and error status
CR_TEMPFAIL [CR]	Get temperature when sensors approach abnormal temperature
CR_TEMP [CR]	Get current temperature

7. Error Code Table

Error Code	Contents
?	-When the received data cannot be decoded -Parameter decignation error (wrong digit number, including invalid value, etc.)
000	Normal reception (This is "Not" error)
102	Directly specified value or values are out of range. (Not reflected)
103	Command mismatched to Hardware (the command is for Optional function which is not implemented)
201	Incremented or decremented value or values are beyond upper or lower limits.
301	Not executable due to screen capturing in process. Prompting reissue of the command after a while.
402	Not executable due to PIN code in operation. Prompting reissue of the command after a while.
101	Error not applicable to above errors

8. Functional Execution Command

8.1 Format

1) PC issues commands in format as below:

Pattern1: "CF_ COMMAND" [CR]

Pattern2: "CF_ COMMAND _" %1 [CR]

CF_: Header

COMMAND: String

%1: Parameter (String)

: Space (To separate COMMAND and Parameter)

2) The projector decodes the received command and when it is ready to receive the next command, it returns the response.

"000" [CR]: (0x06,0x0D) When receiving Functional Execution Command

"nnn" [CR]: Except "000", when it is unable to execute command for any specific reason.

See Error Code Table for details

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

8.2 Transfer Example

When setting projector's total dots to 1344 by Expand Serial command

PC → PJ: "CF_TDOTS_1344" [CR]

8.3 Operation Requirements

Functional Execution Command is limited when the projector status is as below.

However, Status Read Command is still effective under following conditions.

Projector Status	Available Functional Execution Command
Standby Mode	C00: Power ON CF POWER ON
Countdown in process	C00: Power ON CF POWER ON (Terminates Count Down)
Cooling Down in process	N/A
Cooling Down due to Abnormal Temperature	N/A
Abnormal Temperature	N/A
Power Failure (60 seconds after Power failure occured)	N/A
Power-Save Cooling Down in process	N/A
Cooling Down in process due to Shutter management	N/A
Power Save in process	C00: Power ON C01: Power OFF CF POWER ON CF POWER OFF

Note) When projector receives another command in the above status, it returns error code which shows the status.

8.4 Image Command

8.4.1 CF_ BRIGHT Command

Command	"CF_BRIGHT_%1" [CR]		
%1	"000-063" Directly specify setting value of Brightness "UP" Increment setting value of Brightness by 1 "DN" Decrement setting value of Brightness by 1		
Details	Set user controlled value of Brightness (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)		
Response	Acceptable "000" [CR]		
, tooponoo	Unacceptable	"Error Code" [CR]	

8.4.2 CF_CONT Command

Command	"CF_CONT_%1" [CR]		
%1	"000-063" Directly specify setting value of Contrast "UP" Increment setting value of Contrast by 1 "DN" Decrement setting value of Contrast by 1		
Details	Set user controlled value of Contrast (Available only in the normal Power ON status) The value set by this command will not be stored in the projector. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)		
Response	Acceptable	"000" [CR]	
recoporise	Unacceptable	"Error Code" [CR]	

8.4.3 CF_COLOR Command

Command	"CF_COLOR_%1" [CR]	
%1	"000-063" Directly specify setting value of Color "UP" Increment setting value of Color by 1 "DN" Decrement setting value of Color by 1	
Details	Set user controlled value of Colorl (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable "000" [CR]	
ТСЗРОПЗС	Unacceptable	"Error Code" [CR]

8.4.4 CF_TINT Command

Command	"CF_TINT_%1" [CR] .		
%1	"000-063" Directly specify setting value of Tint "UP" Increment setting value of Tint by 1 "DN" Decrement setting value of Tint by 1		
Details	Set Tint value (Available only in the normal Power ON status) The value set by this command will not be saved to the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)		
Response	Acceptable "000" [CR]		
Iveshouse	Unacceptable	"Error Code" [CR]	

8.4.5 CF_SHARP Command

Command	"CF_SHARP_%1" [CR]		
%1	"000-031" Directly specify setting value of Sharpness "UP" Increment setting value of Sharpness by 1 "DN" Decrement setting value of Sharpness by 1		
Details	Set user controlled value of Sharpness (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)		
Response	Acceptable "000" [CR]		
Neaponae	Unacceptable	"Error Code" [CR]	

8.4.6 CF_GAMMA Command

Command	"CF_GAMMA_%1" [CR]		
%1	"000-015" Directly specify setting value of Gamma "UP" Increment setting value of Gamma by 1 "DN" Decrenment setting value of Gamma by 1		
Details	Set user controlled value of Gamma (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFFstatus, the value returns to the original setting. (It is stored in Standby mode.)		
Response	Acceptable "000" [CR]		
Response	Unacceptable	"Error Code" [CR]	

8.4.7 CF_WBAL- Command

Command	"CF_WBAL-%1_%2" [CR]	
%1	"R" RED "G" GREEN "B" BLUE	
%2	"000-063" Directly specify value of Color selected in %1 of White Balance. "UP" Increment setting value of Color specified in %1 of White Balance by 1 "DN" Decrement setting value of Color specified in %1 of White Balance by 1	
Details	Set value of Color specified in %1 of White Balance (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code"[CR]

8.4.8 CF_COLTEMP Command

Command	"CF_COLTEMP_%1" [CR]		
	"000" Xlow "001" Low "002" Mid "003" High		

Details	Set Color Temperature (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable	"000" [CR]
Тооролоо	Unacceptable	"Error Code" [CR]

8.4.9 CF_NZRED Command

Command	"CF_NZRED_%1" [CR]	
%1	"OFF" Cancel Noise Reduction "L1" Set Noise Reduction to L1 "L2" Set Noise Reduction to L2 "UP" Switch setting forward direction (OFF→L1→L2→OFF) "DN" Switch setting backward direction (OFF→L2→L1→OFF)	
Details	Set Noise Reduction level (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It returns to the original setting in Standby mode as well.)	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.4.10 CF_PROGV Command

Command	"CF_PROGV_%1" [CR]	
%1	"ON"Set Progressive scan to On. "FILM" Set Progressive scan to Film. "OFF" Set Progressive scan to OFF. "UP" Switch setting forward direction (OFF→ON→FILM→OFF) "DN" Switch setting backward direction (OFF→FILM→ON→OFF)	
Details	Set Progressive scan mode. (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.4.11 **CF_IMAGE Command**

Command	"CF_IMAGE_%1" [CR]		
%1	"STANDPC" Standard (PC) (Image adjust value is set to factory default for Still Image) "STANDAV" Standard (AV) (Image adjust value is set to factory default for Moving Image) "REAL Real (Fixed value to display graphic image with natural tone) "CINEMA" Image (Fixed value to focus on tone reproduction for movie) "CUSTOM1" Image (the value adjusted and stored by user) "CUSTOM2" Image (the value adjusted and stored by user) "CUSTOM3" Image (the value adjusted and stored by user) "CUSTOM6" Image (the value adjusted and stored by user) "CUSTOM6" Image (the value adjusted and stored by user) "CUSTOM7" Image (the value adjusted and stored by user) "CUSTOM8" Image (the value adjusted and stored by user) "CUSTOM9" Image (the value adjusted and stored by user) "CUSTOM9" Image (the value adjusted and stored by user) "CUSTOM1" Image (the value adjusted and stored by user) "CUSTOM1" Image (the value adjusted and stored by user)		

Details	Select Image Mode (Available only in the normal Power ON status) Parameter "CUSTOM1" to "CUSTOM10" corresponds to "Image1" to "Image10" displayed in projector OSD menu on selecting Image. The value set by this command is stored in EEPROM so that the setting can remain effective even after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.4.12 CF_IMAGEADJ Command

Command	"CF_IMAGEADJ_%1"[CR]	
%1	"RST" Reset adjusted value for the Image "STR1" Store current adjusted value to Image 1 "STR2" Store current adjusted value to Image 2 "STR3" Store current adjusted value to Image 3 "STR4" Store current adjusted value to Image 4 "STR5" Store current adjusted value to Image 5 "STR6" Store current adjusted value to Image 6 "STR7" Store current adjusted value to Image 7 "STR8" Store current adjusted value to Image 8 "STR9" Store current adjusted value to Image 9 "STR10" Store current adjusted value to Image 10	
Details	Reset or Store adjusted value for Image. (Available only in the normal Power ON status) "STR1"-"STR10" corresponds to "Image1"-"Image10" displayed in projector OSD menu on selecting "Store" for adjusted value of Image. The setting value set in "Image1" to "Image10" is stored and can be retrieved when turning on the projector again after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
Treaportee	Unacceptable	"Error Code" [CR]

8.4.13 CF_APCTRL Command

Command	"CF_APCTRL_%1" [CR]	
%1	"L1" Set Auto Picture Control to Level 1. "L2" Set Auto Picture Control to Level 2. "OFF" Set Auto Picture Control OFF. " UP" Switch setting forward direction (OFF→L1→L2→OFF) " DN" Switch setting backward direction (OFF→L2→L1→OFF)	
Details	Set Auto Picture Control (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
, response	Unacceptable	"Error Code" [CR]

8.4.14 CF_COLMNSAV Command

Command	"CF_COLMNSAV_%1" [CR]	
%1	"000 009" Specify the area to store	
Details	Store current setting status of Color Management to the area specified in %1. (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
response	Unacceptable	"Error Code" [CR]

8.4.15 CF_COLMNLD Command

Command "CF_COLMNLD_%1" [CR]	
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%1	"000 – 009" Specify the area to store	
Details	Retrieve Color Management setting status from the area specified in %1. (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.5 PC Adjust Control Command

8.5.1 CF_FSYNC Command

Command	"CF_FSYNC_%1" [CR]	
%1	"0000-0031" Directly specify setting value of Fine Sync "UP" Increment setting value of Fine Sync by 1 "DN" Decrement setting value of Fine Sync by 1	
Details	Set value of Fine Sync in PC signal (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable	"000" [CR]
response	Unacceptable	"101" [CR] When input is Video signal

8.5.2 CF_TDOTS Command

Command	"CF_TDOTS_%1" [CR]	
%1	"mmmm - nnnn" Directly specify setting value of Total Dots "mmmm" indicates minimum value, which is current (Display area H + Position H) value "nnnn" indicates maximum value, which is less than 140 MHz in Dot Clocks "UP"	
Details	Set value of Total Dots in PC signal (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable "000" [CR]	
response	Unacceptable	"101" [CR] When input is Video signal

8.5.3 CF_CLPPHASE Command

Command	"CF_CLPPHASE_%1" [CR]	
%1	"0001-0225" Directly specify setting value of Clamp Phase "UP" Increment setting value of Clamp Phase by 1 "DN" Decrement setting value of Clamp Phase by 1	
Details	Set value of Clamp Phase (Available only in the normal Power ON status) The value set by this command will not be stored in the projector. Therefore, when the power is turned to ALL OFF, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable	"000" [CR]
rzeshouse	Unacceptable	"Error Code" [CR]

8.5.4 CF_H-POS Command

Command	"CF_H-POS_%1" [CR]			
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%1	"0000-nnnn" Directly specify setting value of Horizontal Position "nnnn" indicates maximum value, which is current value of (Total dots - Display area H) "UP"	
Details	Set value of Horizontal Position in PC signal (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable "000" [CR]	
1 (COPONIC	Unacceptable	"101" [CR] When input is Video signal

8.5.5 **CF_V-POS Command**

Command	"CF_V-POS_%1" [CR]	
%1	"0000-nnnn" Directly specify setting value of Vertical Position "nnnn" indicates maximum value, which is current (Total Line – Display Area V) value "UP" Increment setting value of Vertical Position by 1 "DN" Decrement setting value of Vertical Position by 1	
Details	Set Vertical Position value (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable "000" [CR]	
Response	Unacceptable	"101" [CR] When input is Video signal

8.5.6 CF_DDOTS Command

Command	"CF_DDOTS_%1" [CR]	
%1	"0100-nnnn" Directly specify setting value of Display Dots "nnnn" indicates maximum value, which is current value of (Total Dots - Position H). In this projector, the value should be "even number" and if "odd number" is specified, it adds 1 to make the value even number. "UP"	
Details	Set setting value of Display Dots in PC signal (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable	"000" [CR]
response	Unacceptable	"101" [CR] When input is Video signal

8.5.7 **CF_DLINE Command**

Command	"CF_DLINE_%1" [CR]	
%1	"0100-nnnn" Directly specify setting value of Display Line "nnnn" indicates maximum value, which is current value of (Total Line - Position V). "UP" Increment setting value of Display Line by 1 "DN" Decrement setting value of Display line by 1	
Details	Set setting value of Display Line in PC signal (Available only in the normal Power ON status) The value set by this command will not be stored in the projector's memory. Therefore, when the power is turned to ALL OFF status, the value returns to the original setting. (It is stored in Standby mode.)	
Response	Acceptable	"000" [CR]

Unacceptable "101" [CR] When input is Video signal	
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8.5.8 CF_SETPCADJ Command

Command	"CF_SETPCADJ_%1" [CR]	
%1	None "EXT11-60"	
Details	1. Apply value set in PC Adjust Menu to projected image. Specifing setting value directly in the following PC Adjust related commands immediately reflects them on projected image, while issuing this command after these commands also triggers the reflection. (Avable only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
, tooponoo	Unacceptable	"101" [CR] When input is Video signal

8.5.9 CF_ORGMODE Command

Command	"CF_ORGMODE_%1" [CR]	
%1	"VGA1"	nal is PC Analog;
Details	After "EXT n" is set by PC control command such as CF_FSYNC/CF_TDOTS and CF_SETPCADJ command, specify the signal originated with by issuing this command. This command is used to specify projector internal settings such as whether or not to get PC signal through IP (Available only in the normal Power ON status) Note; To differentiate between 60Hz and 50Hz in 1080i and 720p, "60" or "50" is necessary to add to the parameter in this command.	
Response	Acceptable	"000" [CR]
	Unacceptable	"101" [CR] When input is Video signal

8.5.10 CF_PCSTORE Command

Command	"CF_PCSTORE_%1" [CR]	
%1	"1" Store current value of PC Adjust to Mode1 "2" Store current value of PC Adjust to Mode2 "3" Store current value of PC Adjust to Mode3 "4" Store current value of PC Adjust to Mode4 "5" Store current value of PC Adjust to Mode5 "6" Store current value of PC Adjust to Mode6 "7" Store current value of PC Adjust to Mode7 "8" Store current value of PC Adjust to Mode8 "9" Store current value of PC Adjust to Mode9 "10" Store current value of PC Adjust to Mode10	
Details	Store current value of PC Adjust (each parameter status such as Total dots) to Mode1-50. This command operates the same way as storing to Mode1-50 in PC Adjust Menu. (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
reaponse	Unacceptable	"101" [CR] When input is Video signal

8.5.11 **CF_PCMODEFREE Command**

	VOE DOMODEEDEE WALLOW		
Command	"CF_PCMODEFREE_%1" [CR]		
%1	"1" Set Mode1 to Free status "2" Set Mode2 to Free status "3" Set Mode3 to Free status "4" Set Mode4 to Free status "5" Set Mode5 to Free status "6" Set Mode6 to Free status "7" Set Mode7 to Free status "8" Set Mode8 to Free status "8" Set Mode9 to Free status "9" Set Mode9 to Free status "10" Set Mode10 to Free status		
Details	Delete the data registered in Custom Mode1–50 and returns it to Free status. This command operates the same way as storing to Mode1-50 in PC Adjust Menu. (Available only in the normal Power ON status)		
Response	Acceptable	"000" [CR]	
response	Unacceptable	"101" [CR] When input is Video signal	

8.6 Input Control Command

8.6.1 CF_INPUT Command

Command	"CF_INPUT_%1" [CR]	
%1	"1"	
Details	Select Input (Available only in the normal Power ON status) This command switches only Input No, not Source. For instance, when Input 1 has been selected, receiving the command to select Input 1 does not invoke	

	souce-switching operation. That means it operates differently from "INPUT" button of Projector or Remote Control.		
	*When selecting Input4 on a projector with PJ-Net unattached, it comes to "103". *When selecting Input1 on a projector with PJ-Net attached and power OFF, It comes to "101". *When selecting Input1 on a projector with Input1 set to Monitor Out, it comes to "101".		
Response	Acceptable	"000" [CR]	
Response	Unacceptable	"%%%" [CR]	

8.6.2 **CF_SOURCE Command**

Command	"CF_SOURCE_%1" [CR]	
	Input 1	"DIGITAL"
%1	Input 2	"VIDEO"
	Input 3	"VIDEO"Select Video input "S-VIDEO"Select S-Video input "YPBPR"Select Y,Pb/Cb,Pr/Cr input "UP"Select in VIDEO → YPBPR → S-VIDEO → VIDEO order "DN"Select in VIDEO → S-VIDEO → YPBPR → VIDEO order
	Input 4	"NETWORK"- "UP" "DN" *Input can not be selected, but above parameter is processed as Acceptable.
Details	Select Source of currently selected Input (Available only in the normal Power ON status) When selected input does not include specified %1, error code "101" is returned and it is not executed. When Input No is 4 and PJ-Net power is OFF, error code "101" is returned.	
Response	Acceptable	"000" [CR]
- Caponae	Unacceptable	"%%%" [CR]

8.6.3 CF INPUT 1 Command

0.0.0	
Command	"CF_INPUT1_%1" [CR]
%1	"DIGITAL" Select PC Digital Input "ANALOG" Select PC Analog Input "SCART" Select SCART Input "HDCP" Select DVI HDCP Input "OUT" Select Monitor Out
Details	Select Input 1 as well as Source specified in %1 (Available only in the normal

	Power ON status)	
Response	Acceptable	"000" [CR]
	Unacceptable	"%%%" [CR]

8.6.4 **CF_INPUT 2 Command**

Command	"CF_INPUT2_%1" [CR]	
%1	"VIDEO" Select Composite Video Input "YPBPR" Select Y/Pb/Pr Input "ANALOG" Select RGB Input	
Details	Select Input 2 as well as Source specified in %1. (Available only in the normal Power ON status)	
Response Acceptable "000" [CR]		"000" [CR]
Rosponse	Unacceptable	"%%%" [CR]

8.6.5 CF_INPUT 3 Command

Command	"CF_INPUT3_%1" [CR]	
%1	"VIDEO" Select Composite Video Input "S-VIDEO" Select S-Video Input "YPBPR" Select Y/Pb/Pr Input	
Details	Select Input 3 as well as Source specified in %1. (Available only in the normal Power ON status)	
Response Acceptable "000" [CR]		"000" [CR]
response	Unacceptable	"%%%" [CR]

8.6.6 **CF_INPUT 4 Command**

Command	"CF_INPUT4_%1" [CR]	
%1	"NETWORK" Select input from PJ-Net	
Details	Select Input 4 as well as Source specified in %1. (Available only in the normal Power ON status) *With PJ-Net unattached, this command is invalid and error code "103" is returned. *With PJ-Net attached and the power OFF, error code "101" is returned.	
Response Acceptable "000" [CR]		"000" [CR]
reaponae	Unacceptable	"%%%" [CR]

8.6.7 **CF_SYSTEM Command**

Command	"CF_SYSTEM_%1" [CR]	
%1	Input is PC Analog	"VGA1"

		"1080psf/24" Select 1080psf/24 "1080psf/25" Select 1080psf/25 "1080psf/30" Select 1080psf/30 "MODE1 - 10" Select MODE1 - MODE10 "EXT11 - 60" Select Ex Mode11-60 * Mode1-10 is not returned.
	Input is PC Digital/AV HDCP	"D-XGA1"
	Input is Y,Pb/Cb,Pr/Cr	"AUTO"
	Input is Vidẹo / S-Video	"AUTO" Select System "Auto" "NTSC" Select NTSC "NTSC443" Select NTSC4.43 "PAL" Select PAL "SECAM" Select SECAM "PAL-M" Select PAL-M "PAL-N" Select PAL-N
Details	Select System of currently selected Input (Available only in the normal Power ON status) When selected input does not include specified %1, error code "101" [CR] is returned and it is not executed. When Input No is 4, error code "101" [CR] is returned and it is not executed.	
Response	Acceptable	"000" [CR]
response	Unacceptable	"Error Code" [CR]

8.7 Screen Control Command

8.7.1 CF_SCREEN Command

Command	"CF_SCREEN_%1" [C	R]
%1	Input is Computer	"NORMAL"
	Input is Video	"NORMAL"

	Details returned and it is not executed. Receiving "DZOOM_UP" or "DZOOM_DN" command immediately function.		input does not include specified %1, error code "101" [CR] is
	Response	Acceptable	"000" [CR]
		Unacceptable	"Error Code" [CR]

8.7.2 **CF_DZCENT Command**

The state of the s		
Command "CF_DZCENT_%1" [CR]		%1" [CR]
%1	"CENT" Cancel Digital Zoom (CENT: "CENTER")	
Details Cancel Digital Zoom (Available only in the normal Power for Computer is selected)		Zoom (Available only in the normal Power ON status and Input selected)
Response	Acceptable	"000" [CR]
response	Unacceptable	"101" [CR] When iput is Video

8.7.3 CF_KEYSTONE Command

Command	"CF_KEYSTONE _%1" [CR]	
%1	"FUP" "DN" "FDN" "LEFT" "FLFT" "RIGHT" "FRGT"	Correct Keystone distortion to reduce upper part of image Correct Keystone distortion to reduce upper part largely Correct Keystone distortion to reduce lower part of image Correct Keystone distortion to reduce lower part largely Correct Keystone distortion to reduce left part of image Correct Keystone distortion to reduce left part largely Correct Keystone distortion to reduce right part of image Correct Keystone distortion to reduce right part largely Set Keystone OFF
Change level of Keystone distortion compower ON status). When reached the limit of the correction but does not execute it. Receiving this command immediately involved when trying to set the value beyond a returned and the operation is not executed Example 1: When the correction level of limit and then the command "RIGHT" is re		the limit of the correction level, projector accepts the command ecute it. command immediately invokes the operation. set the value beyond available range, error code "201" is experation is not executed. then the correction level of the right part has reached its upper the command "RIGHT" is received en the upper part correction allows only another step, and then
Response	Acceptable	"000" [CR]
Теоропас	Unacceptable	"Error Code" [CR]

8.7.4 CF_KYSTNMODE Command

Command	"CF_KYSTNMODE _%1" [CR] "STR" Set Keystone store mode to Store "RST" Set Keystone store mode to Reset		
%1			
Details	Set Keystone s	tore mode (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]	
response	Unacceptable	"Error Code" [CR]	

8.7.5 **CF_ANAMORPHIC Command**

Command	"CF_ANAMORPHIC _%1" [CR]	
%1	"ON" Set Anamorphic to ON. "OFF" Set Anamorphic to OFF.	
Set ON/OFF of Anamorphic (Available only in the normal Pow		phic is set to ON, Aspect Ratio is forced to convert from 16:9 to en mode.
Response	Acceptable	"000" [CR]
/ Copoliso	Unacceptable	"Error Code" [CR]

8.8 Lamp Command

8.8.1 CF_LAMPH Command

Command	"CF_LAMPH_%1" [CR]		
%1	"RST"		
Details	Reset lamp running time (Available only in the normal Power ON status)		
Response	Acceptable	"000" [CR]	
	Unacceptable	"Error Code" [CR]	

8.8.2 CF_LAMPMODE Command

Command	ommand "CF_LAMPMODE_%1" [CR]	
%1	"NORMAL" "ECO" "AUTO"	Set Lamp status to Eco mode
Details	Select Lamp mode (Available only in the normal Power ON status) The value set by this command is stored in EEPROM and the setting remains effective after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
response	Unacceptable	"Error Code" [CR]

8.9 Sound Command

8.9.1 CF_VOLUME Command

Command	"CF_VOLUME_%1" [CR]	
%1	"000-063" "UP" "DN"	more soung value of volume by
Details Set Volume Up/Down the same way a Volume. When setting Volume value, the		Volume (Available only in the normal Power ON status) p/Down the same way as RC and also directly specify value of n setting Volume value, the Sound Mute ON status is canceled just on. The value set by this command is stored in Projector's memory.
Response	Acceptable	"000" [CR]
1.00001130	Unacceptable	"Error Code" [CR]

8.9.2 CF_MUTE Command

Command	"CF_MUTE_%1" [CR]
%1	"ON" Set Sound Mute to ON "OFF" Set Sound Mute to OFF
Details	Control ON/OFF of Sound Mute (Available only in the normal Power ON status)

Response	Acceptable	"000" [CR]
response	Unacceptable	"Error Code" [CR]

8.9.3 CF_BLTINSP Command

Command	"CF_BLTINSP_	_%1" [CR]
%1	"ON" "OFF"	Set Built-in speaker to ON Set Built-in speaker to OFF
Details	Set ON/OFF of	Built-in speaker (Available only in the normal Power ON status).
Response	Acceptable	"000" [CR]
response	Unacceptable	"Error Code" [CR]

8.10 Setting Command

8.10.1 CF_BACKGND Command

Command	"CF_BACKGND_%1" [CR]	
%1	"BLUE"	
		tus for no signal.(Available only in the normal Power ON status) by this command is stored in EEPROM and the setting remains power is turned to ALL OFF status.
Response	Acceptable	"000" [CR]
Response	Unacceptable	"Error Code" [CR]

8.10.2 CF_DISP Command

Command	"CF_DISP%1" [CR]	
%1	"UP" Switch forward (On → Count down Off → Off → On →) "DN" Switch backward (On → Off → Count down Off → On →) Set Display mode.(Available only in the normal Power ON status)	
Details		
Response	Acceptable	"000" [CR]
Acaponae	Unacceptable	"Error Code" [CR]

8.10.3 CF_LOGO Command

Command	"CF_LOGO_%1_%2" [CR]		
%1	"0000 – 9999" Directly set Logo PIN code		
%2	"OFF"		
Details	Set Logo mode.(Available only in the normal Power ON status) The status set by this command is stored in EEPROM and setting remains		

	effective even after the power is turned to ALL OFF status. Set Logo PIN code in %1.	
	When Logo Lock is enabled: PIN code is matched Command is valid (Acceptable) PIN code is mismatched Command is invalid (Error code "102") PIN code is beyond %1 available range Command is invalid (Error code"?") When Logo Lock is disabled: PIN code is within %1 available range Command is valid (Acceptable) PIN code is out of %1 available range Command is invalid (Error code "?")	
	l	ogo Lock is enabled, matching Logo PIN code switches Logo but of cancelled (Lock status is kept).
Response	Acceptable	"000" [CR]
Reaponse	Unacceptable	"Error Code" [CR]

8.10.4 CF_CEIL Command

Command	"CF_CEIL_%1" [CR] "ON" Set Ceiling to ON. "OFF" Set Ceiling to OFF. Set/Cancel Ceiling mode.(Available only in the normal Power ON status) The status set by this command is stored in EEPROM and setting remains effective even after the power is turned to ALL OFF status.	
%1		
Details		
Response	Acceptable	"000" [CR]
response	Unacceptable	"Error Code" [CR]

8.10.5 CF_REAR Command

Command	"CF_REAR_%1" [CR]	
%1	"ON" ———————————————————————————————————	
Details		
Response	Acceptable	"000" [CR]
response	Unacceptable	"Error Code" [CR]

8.10.6 CF_RCODE Command

Command	"CF_RCODE_%1" [CR]	
%1	"002"	Select Code 1
Details	Select Code of Remote Control (Available only in the normal Power ON status) The status set by this command is stored in EEPROM and setting remains effective even after the power is turned to ALL OFF status.	
Response	Acceptable "000" [CR]	

1 1 1		"Error Code" [CR]	I .
1 0	nacceblable	Error Gode (CR)	I .
-			

8.10.7 CF_LANG Command

Command	"CF_LANG_%1" [CR]	
%1	"DEU"	Select ENGLISH Select German Select French Select Italian Select Spanish Select Portuguese Select Dutch Select Swedish Select Supanese Select Chinese Select Korean Select Russian
Details	Set language for OSD (Available only in the normal Power ON status) The language set by this command is stored in EEPROM and setting remains effective even after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
Lisspones	Unacceptable	"Error Code" [CR]

8.10.8 CF_ON-STA Command

		- W
Command	"CF_ON-STA_%1" [CR]	
%1	"ON" Set Power On Start to ON. "OFF" Set Power On Start to OFF. "UP" Toggle between ON and OFF.(On→Off→On →) "DN" Toggle between ON and OFF.(On→Off→On →) *"UP" and "DN" are exactly same operation.	
Details	Set/Cancel Power ON Start (Available only in the normal Power ON status) The status set by this command is stored in EEPROM and setting value rer effective even after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
Reaponde	Unacceptable	"Error Code" [CR]

8.10.9 **CF_P-MANE Command**

Command	"CF_P-MANE_%1" [CR]	
%1	"UP" Switch forward (Off→Ready→Shut down→Off) "DN" Switch backward (Off→Shut down→Ready→Off) Set/Cancel Power Management (Available only in the normal Power ON status)	
Details		
Response	Acceptable "000" [CR]	
Response	Unacceptable	"Error Code" [CR]

8.10.10 **CF_P-MANETIME Command**

Command	"CF_P-MANETIME_%1" [CR]	

%1	"01" - "30"	
Details		
Response	Acceptable	"000" [CR]
response	Unacceptable	"Error Code" [CR]

8.10.11 **CF_FANSPEED Command**

Command	"CF_FANSPEED_%1" [CR]	
%1	"MAX" Select maximum fan speed "NOR" Select normal fan speed	
Details	Switch Fan Control Speed mode.(Available only in the normal Power ON status) The status set by this command is stored in EEPROM and setting remains effective even after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
Теоропас	Unacceptable	"Error Code" [CR]

8.10.12 CF_KEYDIS Command

Command	"CF_KEYDIS_%1" [CR]	
%1	"NONE"	
Details	Disable RC and/or KEY functions (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
response	Unacceptable	"Error Code" [CR]

8.10.13 **CF_FDEFAULT Command**

Command	"CF_FDEFAULT_%1" [CR]	
%1	"RST"	
Details	Reset to Factory Default setting (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
rresponse	Unacceptable	"Error Code" [CR]

8.10.14 CF_PJPINCODE Command

Command	"CF_PJPINCODE_%1" [CR]
%1	"0000 – 9999" Directly specify PJ PIN code
Details	Enter PIN code to cancel PIN code lock (Available only in the normal Power ON status) PIN code can not be changed. (Only PIN code lock is canceled.) *When PIN code Lock is enabled: PIN code is matched

	code "?") When PIN code lock is canceled: PIN code is within %1 range Command is valid (Acceptable) PIN code is out of %1 range Command is invalid (Error code is 102) This command is only valid when "PJ PIN code" dialog is displayed to enter PIN code after Power is ON and Countdown is completed. When PIN code lock is set to "On1", it needs to send this command every time the projector is turned on. Acceptable "000" [CR]	
Response	Acceptable	"000" [CR]
coponico	Unacceptable	"Error Code" [CR]

8.11 Other Commands

8.11.1 CF_KEYEMU Command

Command	"CF_KEYEMU_%1" [CR]		
%1	"RIGHT" Move Pointer rightward in On-Screen Display Menu "LEFT" Move Pointer leftward in On-Screen Display Menu "UP" Move Pointer to upward On-Screen Display Menu "DN" Move Pointer to downward in On-Screen Display Menu "SELECT" The same operation as "SELECT" button of RC "AUTOPC" Execute Auto PC Adj. operation The same operation as "AUTO PC" button of RC When this is sent during Auto PC Adj. operation, the operation is stopped. This is same way as pressing "AUTO PC" button of RC.		
Details	The same operation as RC/Control Key.		
Response	Acceptable	"000" [CR]	
	Unacceptable	"Error Code" [CR]	

8.11.2 CF_MENU Command

Command	"CF_MENU_%1" [CR]	
%1	"ON" Display On-Screen Display Menu "OFF" Hide On-Screen Display Menu	
Details	Set On-Screen Display mode. (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
rtesponse	Unacceptable	"Error Code" [CR]

8.11.3 CF_POWER Command

Command	"CF_POWER_%1" [CR]		
%1	* Issuing ar operation to be the Error Code command is in the Example: * Example: * Returning the status has alr Example: * "000" [CR	nother command during countdown process forced countdown be terminated. e is returned in some projector statuses, which indicates the mpossible to be executed. (See [8.3] for details) he response "000" [CR] (acceptable) does not always mean that the leady changed to Power ON. When the temperature approaches abnormal status after returning of the command CF_POWER ON. It to get the projector status requires using Status Read command.	
Details	Set Power to ON/OFF		
Response	Acceptable	"000" [CR]	

Unacceptable "Error Code" [CR]	
--------------------------------	--

8.11.4 CF_FREEZE Command

Command	"CF_FREEZE_%1" [CR]		
%1	"ON" Set Freeze to ON. "OFF" Set Freeze to OFF. "UP" Switch forward (On→Off→On→) "DN" Switch backward (On→Off→On→) * The same operation for "UP" and "DN" as this model has only "ON" / "OFF".		
Details	Set / Cancel Freeze function. (Available only in the normal Power ON status) Receiving FREEZE_ON command when the projector is Freeze enabled, Freeze status is kept.		
Response	Acceptable	"000" [CR]	
1.copondo	Unacceptable	"Error Code" [CR]	

9. Status Read Command

9.1 Format

1) PC issues commands in format as below:

Command: String

2) When projector receives the appropriate command, it returns the required data as a string.

%1: Required Data (String)

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

9.2 Transfer Example

Get total dots of projector by Expand Serial Commands

9.3 Operation Condition

Basically it should be always operated.

9.4 Image Status Read Command

9.4.1 CR_BRIGHT Command

Command	"CR_BRIGHT" [CR]	
Details	Get user contro	lled value of Brightness
	Acceptable	"000_%1" [CR]
Response	%1	"000 – 063"
	Unacceptable	"?" [CR]

9.4.2 CR_CONT Command

Command	"CR_CONT" [CR]	
Details	Get user controlled value of Contrast	
Response	Acceptable	"000_%1" [CR]
	%1	"000 – 063"
	Unacceptable	"?" [CR]

9.4.3 CR_COLOR Command

Command	"CR_COLOR" [CR]	
Details	Get user controlled value of Color	
Response	Acceptable	"000_%1" [CR]
	%1	"000 – 063"
	Unacceptable	"?" [CR]

9.4.4 CR_TINT Command

Command	"CR_TINT" [CR]	
Details	Get user controlled value of Tint	
	Acceptable	"000_%1" [CR]
Postono	%1	"000 – 063"
Response	Unacceptable	"Error Code" [CR] — When command is not available in the given condition (such as being selected input). "?" [CR] When unknown command is received

9.4.5 CR_SHARP Command

Command	"CR_SHARP" [CR]	
Details	Get user controlled value of Sharpness	
Response	Acceptable	"000_%1" [CR]
	%1	"000 – 031 [°]
	Unacceptable	"?" [CR]

9.4.6 CR_GAMMA Command

Command	"CR_GAMMA" [CR]	
Details	Get user controlled value of Gamma	
Response	Acceptable	"000_%1" [CR]
	%1	"000 – 015"
	Unacceptable	"?" [CR]

9.4.7 CR_WBAL-R Command

Command	"CR_WBAL-R" [CR]	
Details	Get user controlled Red value of White Balance	
	Acceptable	"000_%1" [CR]
Response	%1	"000 – 063"
	Unacceptable	"?" [CR]

9.4.8 CR_WBAL-G Command

Command	"CR_WBAL-G" [CR]	
Details	Get user controlled Green value of White Balance	
	Acceptable	"000_%1" [CR]
Response	%1	"000 – 063"
	Unacceptable	"?" [CR]

9.4.9 CR_WBAL-B Command

Command	"CR_WBAL-B" [CR]	
Details	Get user controlled Blue value of White Balance	
	Acceptable	"000_%1" [CR]
Response	%1	"000 – 063"
	Unacceptable	"?" [CR]

9.4.10 CR_COLTEMP Command

Command	"CR_COLTEMP" [CR]	
Details	Get Color Temperature setting status	
- "	Acceptable	"000_%1" [CR]
Response	%1	"000" Xlow "001" Low "002" Mid "003" High "BLANK" OSD Menu is blank (Neither of Xlow / Low / Mid / High)
	Unacceptable	"?" [CR]

9.4.11 CR_NZRED Command

Command	"CR_NZRED" [CR]	
Details	Get Noise Reduction setting status	
	Acceptable	"000_%1" [CR]
Response	%1	"OFF" Cancel Noise Reduction "L1" Noise Reduction L1 "L2" Noise Reduction L2
	Unacceptable	"?" [CR]

9.4.12 CR_PROGV Command

Command	"CR_PROGV" [CR]	
Details	Get Progressive scan setting status	
	Acceptable	"000_%1" [CR]
Response	%1	"ON" Set Progressive scan On "FILM" Select FILM mode "OFF" Set Progressive scan Off
	Unacceptable	"?" [CR]

9.4.13 CR_IMAGE Command

Command	"CR_IMAGE" ["CR_IMAGE" [CR]	
Details	Get image setti	Get image setting status	
	Acceptable	"000_%1" [CR]	
Response	%1	"STANDPC"	
	Unacceptable	"Error Code" [CR] When command is not available in the given condition (such as being selected input "?" [CR]	

9.4.14 CR_IMGGMD Command

Command	"CR_IMGGMD" [CR]	
Details	Get setting status of Standard/Real/Cinema in Image Gamma	
Response	Acceptable	"000_%1" [CR]
	%1	"STDPC" Standard (PC) "STDAV" Standard (AV) "REL" Real "CNM" Cinema
	Unacceptable	"?" [CR]

9.4.15 CR_APCTRL Command

Command	"CR_APCTRL" [CR]	
Details	Get setting status of Auto Picture Control	
	Acceptable	"000_%1" [CR]
Response	%1	"L1" Operate Auto Picture Control with Level1 "L2" Operate Auto Picture Control with Level2 "OFF" Set Auto Picture Control OFF
	Unacceptable	"?" [CR]

9.5 PC Adjust Status Read Command

9.5.1 CR_FSYNC Command

Command	"CR_FSYNC" [CR]	
Details	Get value of Fine Sync	
	Acceptable	"000_%1" [CR]
D	%1	"0000 – 0031"
Response	Unacceptable	"Error Code" [CR] When command is not available in the given condition (such as being selected input) "?" [CR] When unknown command is received

9.5.2 CR_TDOTS Command

Command	"CR_TDOTS" [CR]	
Details Get value of Total Dots		tal Dots
	Acceptable	"000_%1" [CR]
Response	%1	"mmmm" – "nnnn" (mmmm = Display area H + Position H) (nnnn = Maximum value less than 140 MHz of Dot Clock)
	Unacceptable	"Error Code" [CR] When command is not available in the given condition (such as being selected input "?" [CR] When unknown command is received

9.5.3 CR_CLPPHASE Command

Command	"CR_CLPPHASE" [CR]		
Details	Get value of Cl	amp Phase value	<u> </u>
	Acceptable	"000_%1" [CR]	·
Response	%1	"0001 – 0255"	
	Unacceptable	"Error Code" [CR]	

9.5.4 CR_H-POS Command

Command	"CR_H-POS" [CR]	
Details	Get value of Horizontal Position	
	Acceptable	"000_%1" [CR]
Response	%1	"0000 – nnnn" (nnnn = Total Dots – Display area H)
·	Unacceptable	"Error Code" [CR] When command is not available in the given condition (such as being selected input "?" [CR] When unknown command is received

9.5.5 CR_V-POS Command

Command	"CR_V-POS" [CR]		
Details	Get value of Ve	Get value of Vertical Position	
	Acceptable	"000_%1" [CR]	
Response	%1	"0000 – nnnn" (nnnn = Total Line – Display area V)	
·	Unacceptable	"Error Code" [CR] When command is not available in the given condition (such as being selected input "?" [CR] When unknown command is received	

9.5.6 CR_DDOTS Command

Command "CR_DDOTS" [CR]		CR]	
Details	Get value of Dis	Get value of Display Dots	
	Acceptable	"000_%1" [CR]	
Response	%1	"0100 – nnnn" (nnnn = Total Dots – Position H)	
·	Unacceptable	"Error Code" [CR] When command is not available in the given condition (such as being selected input "?" [CR] When unknown command is received	

9.5.7 CR_DLINE Command

Command	"CR_DLINE" [CR]	
Details	Get value of Display Line	
	Acceptable	"000_%1" [CR]
Response	%1	"0100 – nnnn" (nnnn = Total Line – Position V)
	Unacceptable	"Error Code" [CR] When command is not available in the given condition (such as being selected input) "?" [CR] When unknown command is received

9.5.8 CR_ORGMODE Command

Command	"CR_ORGMODE" [CR]	
Details	Get the original signal of current selected Mode that is set in PC Adj. When MODE1- 10 or EXT11-50 is not selected, get the current signal.	
Response	Acceptable	"000_%1" [CR]

%1	When input signal is PC Analog; "VGA1"
Unacceptable	
	. [614]

9.5.9 CR_PCSTORE Command

Command	"CR_PCSTORE" [CR]	
Details	Get Free or Stored status of MODE1 - 5 in PC Adjust. Data consists of 10 bytes and each byte represents MODE1-10. (F:Free, S:Stored)	
	Acceptable	"000_%1" [CR]
Response	%1	"FFFFFFFF" ALL Free "SFFFFFFFF" Mode1 is Stored, others are Free : "FFFFFFFFS" Mode10 is Stored, others are Free "SSSSSSSSS" ALL Stored
	Unacceptable	"?" [CR]

9.5.10 CR_SETPCADJ Command

	0.0.10 01_0211 07.00 00mmana	
Command	"CR_SETPCADJ" [CR]	
Details	Get PC signa	I for current system
Response	Acceptable	"000_%1" [CR]
	%1	When input signal is PC Analog; "VGA1"

	"1080psf/24" Indicates 1080psf/24 is selected "1080psf/25" Indicates 1080psf/25 is selected "1080psf/30" Indicates 1080psf/30 is selected
	"MODE10" Indicates Mode10 is selected "EXT11" EXT11 is selected
	: "EXT60" EXT60 is selected
	* Error Code "101" [CR] is returned for no signal. * When input signal is not PC Analog, error code "101" is returned.
Unacceptable	"?" [CR]

9.6 Video Status Read Command

9.6.1 CR_SERSYS Command

Command	"CR_SERSYS"	"CR_SERSYS" [CR]	
Details	Get selected current signal. Auto detected signal is returned in Auto mode Only available when Input is Y,Pb/Cb,Pr/Cr, S-Video or Video. (This is not the case for PC-Analog/PC-Digital/AV HDCP signals)		
	Acceptable	"000_%1" [CR]	
Response	%1	"1080I60" 1080i 60Hz "1080I50" 1080i 50Hz "1035I" 1035i "720P60" 720p 60Hz "720P50" 720p 50Hz "575P" 575p "480P" 480p "575I" 575i (includes Composite signal such as PAL) "480I" 480i (includes Composite signal such as NTSC) "NO_SIGNAL" No signal	
	Unacceptable	"101" [CR] When input signal is PC-Analog, PC-Digital or PC signals in AV HDCP "?" [CR]	

9.7 Input Read Command

9.7.1 CR_INPUT Command

Command	"CR_INPUT" [CR]		
Details	Get selected INPUT No.		
	Acceptable	"000_%1" [CR]	
Response	%1	"1 – 4"	
	Unacceptable	"?" [CR]	

9.7.2 CR_SOURCE Command

Command	"CR_SOURCE" [CR]		
Details	Get selected source		
Response	Acceptable	"000_%1" [CR]	

%1	"DIGITAL"
Unacceptab	"Error Code" [CR] When command is not available in the given condition (such as being selected input) "?" [CR]

9.7.3 CR_SRCINP1 Command

Command	"CR_SRCINP1" [CR]	
Details	Get Source of INPUT1	
	Acceptable	"000_%1" [CR]
Response	%1	"DIGITAL"in PC Digital mode "ANALOG"in PC Analog mode "SCART"in Scart mode "HDCP"in AV HDCP mode "OUT"in Monitor out mode
	Unacceptable	"?" [CR]

9.7.4 CR_SRCINP2 Command

Command	"CR_SRCINP2" [CR]		
Details	Get Source of INPUT2		
	Acceptable	"000_%1" [CR]	
Response	%1	"VIDEO" in Video mode "YPBPR" in Y,Pb/Cb,Pr/Cr mode "ANALOG" in RGB mode	
	Unacceptable	"?" [CR]	

9.7.5 CR_SRCINP3 Command

Command	"CR_SRCINP3" [CR]		
Details	Get Source of INPUT3		
Response	Acceptable	"000_%1" [CR]	
	%1	"VIDEO"in Video mode "S-VIDEO"in S-video mode "YPBPR"in Y,Pb/Cb,Pr/Cr mode	
	Unacceptable	"?" [CR]	

9.7.6 CR_SRCINP4 Command

Command	"CR_SRCINP4" [CR]		
Details	Get Source of INPUT4		
Response	Acceptable	"000_%1" [CR]	
	%1	"NETWORK" With PJ-Net attached and the power ON	
	Unacceptable	"101" [CR] With PJ-Net attached and the power ON "103" [CR] With PJ-Net unattached "?" [CR] When unknown command is received.	

9.7.7 CR_SYSTEM Command

Command	"CR_SYSTEM" [CR]			
Details	Get selected System			
	А	cceptable	"000_%1" [CR]	
•			"VGA1"indicates VGA1 is selected "VGA2"indicates VGA2 is selected : : : "XGA1"indicates XGA1 is selected	
		Input is PC Analog	"WXGA3" ————————————————————————————————————	
			"MODE10"indicates Mode10 is selected "EXT11"indicates EXT11 is selected : : : "EXT60"indicates EXT60 is selected * Error Code "101" [CR] is returned for no signal	
Response	%1	Input is PC-Digital/ AV-HDCP	"D-XGA1"	
		Input is Y,Pb/Cb,Pr/Cr	"AUTO" ————————————————————————————————————	
		Input is Video or S-video	"AUTO" indicates Auto is selected "NTSC" indicates NTSC is selected "NTSC443" indicates NTSC4.43 is selected "PAL" indicates PAL is selected "SECAM" indicates SECAM is selected "PAL-M" indicates PAL-M is selected "PAL-N" indicates PAL-N is selected "PAL-N" indicates PAL-N is selected "Selected System is returned, whether or not signal is coming.	
	Ur	acceptable	"Error Code" [CR]	

9.7.8 CR_SYSLIST Command

Command	"CR_SYSLIST" [CR]		
Details	Get possible sy	stems for System list	
	Acceptable	"000_%1_%2%x" [CR]	
Response	%1	Error Code "101" is returned for no signal. Otherwise following values are returned accoding to Source.	
_	Unacceptable	"Error Code" [CR]	

9.7.9 CR_MODELIST Command

Command	"CR_MODELIST" [CR]		
Details	Get possible modes for Mode list		
Response	Acceptable	"000_%1_%2%x" [CR]	
	%1	Error Code "101" is returned except for PC-Analog and for no signal with PC-Analog Possible modes in Mode1-10 are returned when PC-Analog signal is coming. "MODE1" "MODE2" "MODE3" : "MODE8"	

		"MODE9" "MODE10"
į	Jnacceptable	"Error Code" [CR]

9.7.10 CR_HMSLOT Command

Command	"CR_HMSLOT" [CR]	
Details	Get the total number of Input.	
Response	Acceptable	"000_%1" [CR]
	%1	"004" When PJ-Net is attached. "003" When PJ-Net is not attached.
	Unacceptable	"Error Code" [CR]

9.7.11 CR_NMSLOT1 Command

Command	"CR_NMSLOT1" [CR]	
Details	Get terminal inf	formation of Input1
Response	Acceptable	"000_%1" [CR]
	%1	"RGB"
	Unacceptable	"Error Code" [CR]

9.7.12 CR_NMSLOT2 Command

Command	"CR_NMSLOT2" [CR]		
Details	Get terminal information of Input2		
	Acceptable	"000_%1" [CR]	
Response	%1	"5BNC"	
	Unacceptable	"Error Code" [CR]	

9.7.13 CR_NMSLOT3 Command

Command	"CR_NMSLOT3" [CR]	
Details	Get terminal information of Input3	
	Acceptable	"000_%1" [CR]
Response	%1	"VIDEO"
	Unacceptable	"Error Code" [CR]

9.7.14 CR_NMSLOT4 Command

Command	"CR_NMSLOT4" [CR]	
Details	Get teminal information of Input4	
•	Acceptable	"000_%1" [CR]
Response	%1	"NETWORK" When PJ-Net is attached. *With PJ-Net unattached, this command is invalid and error code "103" is returned. *With PJ-Net attached and the power OFF, error code "101" is returned. *In models not supporting PJ-Net, error code "103" is returned.
	Unacceptable	"Error Code" [CR]

9.7.15 CR_IDSLOT1 Command

Command	"CR_IDSLOT1" [CR]	
Details	Get ID information of Input1. This command is to determine sources possible to input.	
	Acceptable	"000_%1" [CR]
Response	%1	"31" —————— On-borad (DVI-D and D-Sub) Available source: DIGITAL, ANALOG, SCART, HDCP, MONITOR OUT
	Unacceptable	"Error Code" [CR]

9.7.16 CR_IDSLOT2 Command

Command	"CR_IDSLOT2" [CR]	
Details	Get ID information of Input2. This command is to determine sources possible to input.	
,	Acceptable	"000_%1" [CR]
Response	%1	"41" On-borad (5BNC) Available source: ANALOG, VIDEO, YPBPR
	Unacceptable	"Error Code" [CR]

9.7.17 CR_IDSLOT3 Command

Command	"CR_IDSLOT3" [CR]		
Details	Get ID information of Input3. This command is to determine sources possible to input.		
Response	Acceptable	"000_%1" [CR]	
	%1 .	"51" On-borad (3BNC and S-VIDEO) Available source: VIDEO, S-VIDEO, YPBPR	
	Unacceptable	"Error Code" [CR]	

9.7.18 CR_IDSLOT4 Command

Command	"CR_IDSLOT4" [CR]	
Details	Get ID information of Input4. This command is to determine sources possible to input.	
	Acceptable	"000_%1" [CR]
Response	%1	"13"
	Unacceptable	"Error Code" [CR]

9.8 Screen Status Read Command

9.8.1 CR_SCREEN Command

Command	"CR_SCREEN" [CR]
Details	Get selected screen image size

Response	Acceptable	"000_%1" [CR]
	%1	"NORMAL" Normal mode "WIDE" Wide mode "FULL" Full mode "TRUE" True mode
	Unacceptable	"Error Code" [CR] When command is not available in the given condition (such as being selected input). "?" [CR] When unknown command is received

9.8.2 CR_ KYSTNMODE Command

Command	"CR_KYSTNMODE" [CR]	
Details	Get setting status of Keystone Store Mode	
Response	Acceptable	"000_%1" [CR]
	%1	"STR" Store mode is "Store" "RST" Store mode is "Reset"
	Unacceptable	"?" [CR] When unknown command is received

9.8.3 CR_ ANAMORPHIC Command

Command	"CR_ANAMORPHIC" [CR]	
Details	Get setting status of Anamorphic	
	Acceptable	"000_%1" [CR]
Response	%1	"ON" Anamorphic mode is ON. "OFF" Anamorphic mode is OFF.
	Unacceptable	"Error Code" [CR] When command is not available in the given condition (such as being selected input). "?" [CR] When unknown command is received

9.9 Lamp Status Read Command

9.9.1 CR_LAMPREPL Command

		· · · · · · · · · · · · · · · · · · ·
Command	"CR_LAMPREPL" [CR]	
Details	Get information of Lamp Replacement time	
Response	Acceptable	"000_%1" [CR]
	%1	"1Y"indicates over lamp replacement time "1N"indicates under lamp replacement time
	Unacceptable	"?" [CR]

9.9.2 CR_LAMPH Command

Command	"CR_LAMPH" [CR]	
Details	Get Lamp running time (in hours) * return actual lamp running time	
	Acceptable	"000_%1" [CR]
Response	%1	"00000 - 99999"
	Unacceptable	"Error Code" [CR]

9.9.3 CR_LAMPCORRESPH Command

Command	"CR_LAMPCORRESPH" [CR]

Details	Get Lamp running time (in hours) *return lamp running time multiplied by a coefficient (not actual running time)	
	Acceptable	"000_%1" [CR]
Response	%1	"00000 99999"
	Unacceptable	"Error Code" [CR]

9.9.4 CR_LAMPMODE Command

Command	"CR_LAMPMODE" [CR]	
Details	Get setting status of Lamp mode Note; In PLV-75, "?" is returned for this command since lamp mode switching function is not implimented.	
Response	Acceptable	"000_%1" [CR]
	%1	"NORMAL" Lamp mode is Normal status "ECO" Lamp mode is Eco status "AUTO" Lamp mode is Auto status
	Unacceptable	"?" [CR]

9.9.5 CR_LAMPSTS Command

Command	"CR_LAMPSTS" [CR]	
Details	Get Lamp status	
Response	Acceptable	"000_%1" [CR]
	%1	"1I" Lamp is ON "1O" Lamp is OFF "1X" Lamp Failure
	Unacceptable	"Error Code" [CR]

9.9.6 CR_PROJH Command

Command	"CR_PROJH" [CR]	
Details	Get total running time of Projector (in hours)	
Response	Acceptable	"000_%1" [CR]
	%1	"0000000 – 9999999"
	Unacceptable	"?" [CR]

9.9.7 CR_HMLAMP Command

Command	"CR_HMLAMP" [CR]	
Details	Get total lamp number	
	Acceptable	"000_%1" [CR]
Response	%1	"001"
	Unacceptable	"Error Code" [CR]

9.10 Sound Status Read Command

9.10.1 CR_VOLUME Command

Command	"CR_VOLUME "[CR]	
Details	Get volume value by user control	
Response	Acceptable	"000_%1" [CR]

%1	"000 – 063"
Unacceptable	"?" [CR]

9.10.2 CR_MUTE Command

Command	"CR_MUTE" [CR]	
Details	Get setting status of Sound Mute.	
Response	Acceptable	"000_%1" [CR]
	%1	"ON" Set Sound Mute ON. "OFF" Set Sound Mute OFF.
	Unacceptable	"?" [CR]

9.10.3 CR_BLTINSP Command

Command	"CR_BLTINSP" [CR]	
Details	Get setting status of Built-in speaker.	
Response	Acceptable	"000_%1" [CR]
	%1	"ON" Set Sound Mute ON. "OFF" Set Sound Mute OFF.
	Unacceptable	"?" [CR]

9.11 Setting Status Read Command

9.11.1 CR_BACKGND Command

Command	"CR_BACKGND" [CR]	
Details	Get setting status of Screen for no signal	
	Acceptable	"000_%1" [CR]
Response	%1	"BLUE" Set Blue Back "USER" Set User "BLACK" Set Black Back
	Unacceptable	"Error Code" [CR]

9.11.2 CR_DISP Command

Command	"CR_DISP" [CR]	
Details	Get setting status of Display	
	Acceptable	"000_%1" [CR]
Response	%1	"ON" Display is ON "CNTDWNOFF" Count down is OFF "OFF" Display is OFF
	Unacceptable	"?" [CR]

9.11.3 CR_LOGO Command

Command	"CR_LOGO" [CR]	
Details	Get setting status of Logo	
Response	Acceptable	"000_%1" [CR]
	%1	"DFLT" Default Logo is enabled "USER" User is enabled "OFF" Logo is disabled

Unacceptable "?" [CR]	
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9.11.4 CR_LOGOLOCK Command

Command	"CR_LOGOLOCK" [CR]	
Details	Get setting status of Logo Lock function	
Response	Acceptable	"000_%1" [CR]
	%1	"ON" Logo Lock is ON "OFF" Logo Lock is OFF
	Unacceptable	"Error Code" [CR]

9.11.5 CR_CEIL Command

Command	"CR_CEIL" [CR]	
Details	Get setting status of Ceiling	
Response	Acceptable	"000_%1" [CR]
	%1	"ON" Ceiling projection is enabled "OFF" Ceiling projection is disabled
	Unacceptable	"Error Code" [CR]

9.11.6 CR_REAR Command

Command	"CF_REAR" [CR]	
Details	Get setting status of Rear function	
Response	Acceptable	"000_%1" [CR]
	%1	"ON" Rear projection is enabled "OFF" Rear projection is disabled
	Unacceptable	"Error Code" [CR]

9.11.7 CR_RCODE Command

Command	"CF_RCODE" [CR]		
Details	Get selected R	Get selected Remote Control Code	
	Acceptable	"000_%1" [CR]	
Response	%1	"001"	
	Unacceptable	"?" [CR]	

9.11.8 CR_RTYPE Command

Command	"CR_RTYPE" [CR]	
Details	Get status of supported Remote Control (IR/RF).	
Response	Acceptable	"000_%1" [CR]
	%1	"IR" IR "RF" RF (cannot be returned as this model supports only IR remote control)

Unacceptable "Error Code" [CR]	
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9.11.9 CR_LANG Command

Command	"CR_LANG" [CR]	
Details	Get selected la	nguage
	Acceptable	"000_%1" [CR]
Response	%1	"ENG" — English is selected "DEU" — German is selected "FRA" — French is selected "ITA" — Italian is selected "ESP" — Spanish is selected "POR" — Portuguese is selected "NED" — Dutch is selected "SVE" — Swedish is selected "SVE" — Japanese is selected "CHI" — Chinese is selected "KOR" — Korean is selected "RUS" — Russian is selected
	Unacceptable	"?" [CR]

9.11.10 CR_ON-STA Command

Command	"CR_ON-STA" [CR]	
Details	Get setting status of Power ON Start	
Response	Acceptable	"000_%1" [CR]
	%1	"ON"Power ON Start is ON "OFF" Power ON Start is OFF
	Unacceptable	"?" [CR]

9.11.11 CR_P-MANE Command

Command	"CR_P-MANE" [CR]		
Details	Get setting status of Power management		
	Acceptable	"000_%1" [CR]	
Response	%1	"OFF"	
	Unacceptable	"?" [CR]	

9.11.12 CR_P-MANETIME Command

Command	"CR_P-MAETIME" [CR]	
Details	Get setting time for starting Power Management function	
	Acceptable	"000_%1" [CR]
Response	%1	"001 – 030" 1 to 30 minutes
	Unacceptable	"?" [CR]

9.11.13 CR_FANSPEED Command

Command	"CR_FANSPEED" [CR]
Details	Get selected Fan Contorol Speed mode.

	Acceptable	"000_%1" [CR]
Response	%1	"MAX" Max mode is seleted "NOR" Normal mode is selected
	Unacceptable	"?" [CR]

9.11.14 CR_KEYDIS Command

Command	"CR_KEYDIS" [CR]	
Details	Get status of RC/KEY (valid or invalid)	
Response	Acceptable	"000_%1" [CR]
	%1	"NONE"
	Unacceptable	"?" [CR]

9.11.15 CR_SECURITY Command

Command	"CR_ SECURITY" [CR]	
Details	Get ON/OFF setting status of Security on menu.	
Response	Acceptable	"000_%1" [CR]
	%1	"ON" PJ/USB is locked "OFF" PJ/USB is freed
	Unacceptable	"Error Code" [CR]

9.11.16 CR_PJLOCKNOW Command

Command	"CR_PJLOCKNOW" [CR]	
Details	Get actual setting status of PIN code lock	
	Acceptable	"000_%1" [CR]
Response	%1	"LOCK" PJ is locked PIN code lock is set to ON1/ON2 on the menu and PJ PIN code is not entered, therefore PJ is actually locked. "FREE" PJ is unlocked (either A or B) A. PJ lock is set to OFF on the menu B. PJ lock is set to ON1/ON2 on the menu, but PIN code Lock mode is canceled because PJ PIN code is entered.
	Unacceptable	"Error Code" [CR]

9.11.17 CR_PJLOCKMENU Command

Command	"CR_PJLOCKMENU" [CR]		
Details	Get ON/OFF setting status of PIN code lock on menu		
Response	Acceptable	"000_%1" [CR]	
	%1	"ON1"	
	Unacceptable	"Error Code" [CR]	

9.12 Other Status Read Commands

9.12.1 CR_STATUS Command

COMMAND	"CR_STATUS" [CR]	
Detail	Get operating status of Projector Same as "CR0" in basic command except error code follows it.	
	Acceptable	"000_%1" [CR]
Response	%1	"00" = Power ON "80" = Standby "40" = Countdown in process "20" = Cooling Down in process "10" = Power Failure "28" = Cooling Down in process due to abnormal temperature "88" = Standby after Cooling Down due to abnormal temperature "02" = Invalid RS-232C Command "24" = Power Save/Cooling Down in process "04" = Power Save "21" = Cooling Down in process after turened Off due to lamp failure "81" = Standby after Cooling Down due to lamp failure
	Unacceptable	"Error Code" [CR]

9.12.2 CR_PRESSURE Command

Command	"CR_PRESSURE" [CR]	
Details [*]	Get value from Air Pressure sensor. Fllowing is the formula to work out Air Pressure from the given value ("Vn" represents the value): Air Pressure (hPa) = (5*Vn / 1024 – 0.204) / 0.00459 + 150 Obtains accuracy of +/- 2%	
	Acceptable	"000_%1" [CR]
Response	%1	"0000" — "1023"
	Unacceptable	"Error Code" [CR]

9.12.3 CR_SIGNAL Command

Command	"CR_SIGNAL" [CR]	
Details	Get status whether there is any signal or not.	
Response	Acceptable	"000_%1" [CR]
	%1	"ON"There is signal "OFF"There is no signal
	Unacceptable	"?" [CR]

9.12.4 CR_VMUTE Command

Command	"CR_VMUTE" [CR]	
Details	Get setting status of No Show.	
Response	Acceptable	"000_%1" [CR]
	%1	"ON" No show is enabled "OFF" No show is disabled
	Unacceptable	"?" [CR]

9.12.5 CR_FREEZE Command

Command	"CR_FREEZE" [CR]		
Details	Get setting status of Freeze.	 	

	Acceptable	"000_%1" [CR]
Response	%1	"ON" Freeze is enabled "OFF" Freeze is disabled
	Unacceptable	"?" [CR]

9.12.6 CR_ALLPFAIL Command

Command	"CR_ALLPFAIL	"CR_ALLPFAIL" [CR]	
Details	Get all the information on Power Failure Return all the responses of "CR_PFAIL01" – "PFAIL50" at once Therefore it consists of 1200 (24 bytes x 50) bytes totally		
Response	Acceptable	"000_%1_%2" [CR] "000_%3_%4" [CR] "090_%5_%6" [CR] :	
	%1 - %100	%1, %3, •••%99 (Odd number) Item name of Power Failure (16-byte fixed length) %2, %4, •••%100 (Even number) Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"	
	Unacceptable	"Error Code" [CR]	

9.12.7 CR_HMPFAIL Command

Command	"CR_ HMPFAIL" [CR]	
Details	Get total number of detectable Power Failure	
	Acceptable	"000_%1" [CR]
Response	%1	"000 – 050"
	Unacceptable	"Error Code" [CR]

9.12.8 CR_PFAIL01 Command

Command	"CR_PFAIL01" [CR]	
Details	Get item name and status of Power Failure No.1	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.9 CR_PFAIL02 Command

Command	"CR_PFAIL02" [CR]	
Details	Get the item name and status of Power Failure No.2	
Response	Acceptable	"000_%1_%2" [CR]

%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
Unacceptable	"Error Code" [CR]

9.12.10 CR_PFAIL03 Command

Command	"CR_PFAIL03" [CR]	
Details	Get the item name and status of Power Failure No.3	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.11 CR_PFAIL04 Command

Command	"CR_PFAIL04" [CR]	
Details	Get the item name and status of Power Failure No.4	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.12 CR_PFAIL05 Command

Command	"CR_PFAIL05" [CR]	
Details	Get the item name and status of Power Failure No.5	
	Acceptable "000_%1_%2" [CR]	
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.13 CR_PFAIL06 Command

Command	"CR_PFAIL06" [CR]	
Details	Get the item name and status of Power Failure No.6	
	Acceptable "000_%1_%2" [CR]	
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.14 CR_PFAIL07 Command

Command	"CR_PFAIL07" [CR]

Details	Get the item name and status of Power Failure No.7	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.15 CR_PFAIL08 Command

Command	"CR_PFAIL08" [CR]	
Details	Get the item name and status of Power Failure No.8	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.16 CR_PFAIL09 Command

Command	"CR_PFAIL09" [CR]	
Details	Get the item name and status of Power Failure No.9	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.17 CR_PFAIL10 Command

Command	"CR_PFAIL10" [CR]	
Details	Get the item name and status of Power Failure No.10	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.18 CR_PFAIL11 Command

Command	"CR_PFAIL11" [CR]	
Details	Get the item name and status of Power Failure No.11	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.19 CR_PFAIL12 Command

Command	"CR_PFAIL12" [CR]	
Details	Get the item name and status of Power Failure No.12	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.20 CR_PFAIL13 Command

Command	"CR_PFAIL13" [CR]	
Details	Get the item name and status of Power Failure No.13	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.21 CR_PFAIL14 Command

Command	"CR_PFAIL14" [CR]	
Details	Get the item name and status of Power Failure No.14	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.22 CR_PFAIL15Command

Command	"CR_PFAIL15" [CR]	
Details	Get the item name and status of Power Failure No.15	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.23 CR_PFAIL16 Command

Command	"CR_PFAIL16" [CR]		
Details	Get the item name and status of Power Failure No.16		
Response	Acceptable	Acceptable "000_%1_%2" [CR]	
	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"	

Unacceptable	"Error Code" [CR]
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9.12.24 CR_PFAIL17 Command

Command	"CR_PFAIL17" [CR]	
Details	Get the item name and status of Power Failure No.17	
Response	Acceptable	"000_%1_%2" [CR]
	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.25 CR_PFAIL18 Command

Command	"CR_PFAIL18" [CR]	
Details	Get the item name and status of Power Failure No.18	
Response	Acceptable	"000_%1_%2" [CR]
	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.26 CR_PFAIL19 Command

Command	"CR_PFAIL19" [CR]	
Details	Get the item name and status of Power Failure No.19	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.27 CR_PFAIL20 Command

Command	"CR_PFAIL20" [CR]	
Details	Get the item name and status of Power Failure No.20	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.28 CR_PFAIL21 Command

Command	"CR_PFAIL21" [CR]	
Details	Get the item name and status of Power Failure No.21	
Response	Acceptable	"000_%1_%2" [CR]
	%1	%1 Item name of Power Failure (16-byte fixed length)

	%2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
Unacceptable	"Error Code" [CR]

9.12.29 CR_PFAIL22 Command

Command	"CR_PFAIL22" [CR]	
Details	Get the item name and status of Power Failure No.22	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.30 CR_PFAIL23 Command

Command	"CR_PFAIL23" [CR]	
Details	Get the item name and status of Power Failure No.23	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.31 CR_PFAIL24 Command

Command	"CR_PFAIL24" [CR]	
Details	Get the Item name and status of Power Failure No.24	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.32 CR_PFAIL25 Command

Command	"CR_PFAIL25" [CR]	
Details	Get the item name and status of Power Failure No.25	
,	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.33 CR_PFAIL26 Command

Command	"CR_PFAIL26" [CR]

Details	Get the item name and status of Power Failure No.26	
Response	Acceptable	"000_%1_%2" [CR]
	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.34 CR_PFAIL27 Command

Command	"CR_PFAIL27" [CR]	
Details	Get the item name and status of Power Failure No.27	
	Acceptable	
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.35 CR_PFAIL28 Command

Command	"CR_PFAIL28" [CR]	
Details	Get the item name and status of Power Failure No.28	
	Acceptable "000_%1_%2" [CR]	
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.36 CR_PFAIL29 Command

Command	"CR_PFAIL29" [CR]	
Details	Get the item name and status of Power Failure No.29	
	Acceptable "000_%1_%2" [CR]	
Response	%1 ·	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.37 CR_PFAIL30 Command

Command	"CR_PFAIL30" [CR]	
Details	Get the item name and status of Power Failure No.30	
	Acceptable "000_%1_%2" [CR]	
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.38 CR_PFAIL31 Command

Command	"CR_PFAIL31" [CR]	
Details	Get the item name and status of Power Failure No.31	
	Acceptable "000_%1_%2" [CR]	
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.39 CR_PFAIL32 Command

Command	"CR_PFAIL32" [CR]	
Details	Get the item name and status of Power Failure No.32	
	Acceptable "000_%1_%2" [CR]	
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.40 CR_PFAIL33 Command

Command	"CR_PFAIL33" [CR]	
Details	Get the item name and status of Power Failure No.33	
•	Acceptable "000_%1_%2" [CR]	
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.41 CR_PFAIL34 Command

Command	"CR_PFAIL34" [CR]	
Details	Get the item name and status of Power Failure No.34	
	Acceptable "000_%1_%2" [CR]	
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.42 CR_PFAIL35 Command

Command	"CR_PFAIL35" [CR]		
Details	Get the item name and status of Power Failure No.35		
Response	Acceptable	Acceptable "000_%1_%2" [CR]	
	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"	

Unacceptable	"Error Code" [CR]
	<u> </u>

9.12.43 CR_PFAIL36 Command

Command	"CR_PFAIL36" [CR]	
Details	Get the item name and status of Power Failure No.36	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.44 CR_PFAIL37 Command

Command	"CR_PFAIL37" [CR]	
Details	Get the item name and status of Power Failure No.37	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.45 CR_PFAIL38 Command

Command	"CR_PFAIL38" [CR]	
Details	Get the Item name and status of Power Failure No.38	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.46 CR_PFAIL39 Command

Command	"CR_PFAIL39" [CR]	
Details	Get the item name and status of Power Failure No.39	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.47 CR_PFAIL40 Command

Command	"CR_PFAIL40" [CR]	
Details	Get the item name and status of Power Failure No.40	
Response	Acceptable	"000_%1_%2" [CR]
	%1	%1 Item name of Power Failure (16-byte fixed length)

	%2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
Unacceptable	"Error Code" [CR]

9.12.48 CR_PFAIL41 Command

Command	"CR_PFAIL41" [CR] Get the item name and status of Power Failure No.41	
Details		
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.49 CR_PFAIL42 Command

Command	"CR_PFAIL42" [CR] Get the item name and status of Power Failure No.42	
Details		
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.50 CR_PFAIL43 Command

Command	"CR_PFAIL43" [CR] Get the item name and status of Power Failure No.43	
Details		
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.51 CR_PFAIL44 Command

Command	"CR_PFAIL44" [CR]		
Details	Get the item na	Get the item name and status of Power Failure No.44	
	Acceptable	"000_%1_%2" [CR]	
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"	
	Unacceptable	"Error Code" [CR]	

9.12.52 CR_PFAIL45 Command

<u> </u>	
Command	"CR_PFAIL45" [CR]

Details	Get the item name and status of Power Failure No.45	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.53 CR_PFAIL46 Command

Command	"CR_PFAIL46" [CR]	
Details	Get the item name and status of Power Failure No.46	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.54 CR_PFAIL47 Command

Command	"CR_PFAIL47" [CR] Get the item name and status of Power Failure No.47	
Details		
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.55 CR_PFAIL48 Command

Command	"CR_PFAIL48" [CR]	
Details	Get the item name and status of Power Failure No.48	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.56 CR_PFAIL49 Command

Command	"CR_PFAIL49" [CR]	
Details	Get the item name and status of Power Failure No.49	
	Acceptable	"000_%1_%2" [CR]
Response	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.57 CR_PFAIL50 Command

Command	"CR_PFAIL50" [CR]	
Details	Get the item name and status of Power Failure No.50	
Response	Acceptable	"000_%1_%2" [CR]
	%1	%1 Item name of Power Failure (16-byte fixed length) %2 Power status (2-byte fixed length) Power is failed: "NG" Power status is normal: "OK"
	Unacceptable	"Error Code" [CR]

9.12.58 CR_TEMPFAIL Command

Command	"CR_TEMPFAIL" [CR]	
Details	occurs.	to get the temperatures all at once when several sensors
	Acceptable	"000_%1_%2_%3" [CR]
Response	%1, %2, %3	%1
	Unacceptable	"?" [CR]

9.12.59 CR_TEMP Command

Command	"CR_TEMP" [CR]	
Details	Get the current temperature information inside a projector. It is possible to get the temperatures all at once when several sensors installed.	
Response	Acceptable "0	00_%1_%2_%3" [CR]

%1 ————————————————————————————————————			
%3			%1 Sensor 1 temp. (External temp.)
%1, %2 are fixed 6 characters There is one space between %1 and %2 There is one space between %2 and %3 ([Ex.) "31.5F"] "_" indicates a space. When the temperature goes under 0, the first character is "-", not a space, as in "-05.5F". Last character in each data indicates the sensor's status. "F" ——————————————————————————————————			%3 Sensor 3 temp. (Internal temp. 1)
There is one space between %1 and %2 There is one space between %2 and %3 ([Ex.) "_31.5F"] "_" indicates a space. When the temperature goes under 0, the first character is "-", not a space, as in "-05.5F". Last character in each data indicates the sensor's status. "F" ——————————————————————————————————			(montal temp.z)
There is one space between %2 and %3 ((Ex.) "_31.5F"] "_" indicates a space. When the temperature goes under 0, the first character is "-", not a space, as in "-05.5F". Last character in each data indicates the sensor's status. "F"			
(Ex.) "_31.5F"] "_" indicates a space. When the temperature goes under 0, the first character is "-", not a space, as in "-05.5F". Last character in each data indicates the sensor's status. "F" ——————————————————————————————————			
"_" indicates a space. When the temperature goes under 0, the first character is "-", not a space, as in "-05.5F". Last character in each data indicates the sensor's status. "F" ——————————————————————————————————			
the first character is "-", not a space, as in "-05.5F". Last character in each data indicates the sensor's status. "F" ——————————————————————————————————			"_" indicates a space. When the temperature goes under 0.
"F" ———— Exceeding critical temp. (abnormal temp.) "W" ———— Approaching critical temp. (Warning temp.) "S" ————— Sensor temp. is safe (Safe temp.) "N" ——————————————————————————————————			the first character is "-", not a space, as in "-05.5F".
w1, w2, w3 returns responses in a row. (Ex.1) "_31.5F 35.2S 38.0W" [CR] The first data indicates sensor 1 data, then one space, and sensor 2 data. The example 1 shows that sensor 1 indicates 31.5 degrees and the temperature is abnormal, sensor 2 indicates 35.2 degrees and the temperature is safe, sensor 3 indicates 38.0 degrees and the temperature is approaching critical state. When it cannot return the temperature data due to hardware error, the last character is "E" as in "_00.0E" It mitght happen for some projectors that the temperature continues to go up to abnormal status as ling as lamp ballasts are hot. Therefore when in StandBy mode or for several tens of seconds after Power is ON, any treatment of Power Failure is not processed. In that case, the temperature data is represented as " N".			"F" Exceeding critical temp. (abnormal temp.) "W" Approaching critical temp. (Warning temp.) "S" Sensor temp. is safe (Safe temp.) "N" Sensor detects no critical temp.
The first data indicates sensor 1 data, then one space, and sensor 2 data. The example 1 shows that sensor 1 indicates 31.5 degrees and the temperature is abnormal, sensor 2 indicates 35.2 degrees and the temperature is safe, sensor 3 indicates 38.0 degrees and the temperature is approaching critical state. When it cannot return the temperature data due to hardware error, the last character is "E" as in "_00.0E" It mitght happen for some projectors that the temperature continues to go up to abnormal status as ling as lamp ballasts are hot. Therefore when in StandBy mode or for several tens of seconds after Power is ON, any treatment of Power Failure is not processed. In that case, the temperature data is represented as "N".		%1, %2, %3	
and the temperature is abnormal, sensor 2 indicates 35.2 degrees and the temperature is safe, sensor 3 indicates 38.0 degrees and the temperature is approaching critical state. When it cannot return the temperature data due to hardware error, the last character is "E" as in "_00.0E" It mitght happen for some projectors that the temperature continues to go up to abnormal status as ling as lamp ballasts are hot. Therefore when in StandBy mode or for several tens of seconds after Power is ON, any treatment of Power Failure is not processed. In that case, the temperature data is represented as "N".			The first data indicates sensor 1 data, then one space, and
error, the last character is "E" as in "_00.0E" . It mitght happen for some projectors that the temperature continues to go up to abnormal status as ling as lamp ballasts are hot. Therefore when in StandBy mode or for several tens of seconds after Power is ON, any treatment of Power Failure is not processed. In that case, the temperature data is represented as "N".			and the temperature is abnormal, sensor 2 indicates 35.2 degrees and the temperature is safe, sensor 3 indicates 38.0
continues to go up to abnormal status as ling as lamp ballasts are hot. Therefore when in StandBy mode or for several tens of seconds after Power is ON, any treatment of Power Failure is not processed. In that case, the temperature data is represented as " N".			
Unacceptable "Error Code" [CR]			continues to go up to abnormal status as ling as lamp ballasts are hot. Therefore when in StandBy mode or for several tens of seconds after Power is ON, any treatment of Power Fallure is not processed. In that case, the temperature data is
		Unacceptable	"Error Code" [CR]