EXPAND SERIAL COMMAND FUNCTIONAL SPECIFICATIONS

EIKI

LC-WXL200

Ver.1.0

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1 Overview

- This Functional Specification defines communication with PJ-Net organizer for LC-WXL200.
- Supporting Firmware Ver. 1.x of the projector.
- 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

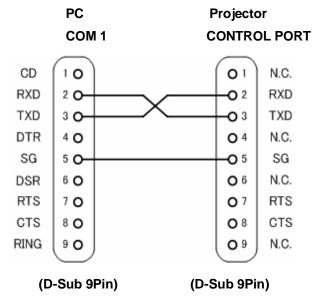
Item	Specification
Synchronous System	Asynchronous
Transmission Speed	9600 / 19200
Data Length	8 bits
Parity	N/A
Stop Bit	1
Flow Control	N/A

Note1) Transmission Speed: initial setting value is 19200

Note2) Transmission Speed can be changed in Service mode.

2.2 Connection

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



Connect COM port of the computer to CONTROL PORT of the projector.

COM Port (COM1 or COM2) of a computer is specified by control software of the computer.

3 Notes for communication

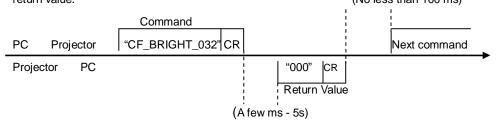
- Expand Serial Command is defined as a single command per line that starts with "C" and ends with carriage return (0x0D).
- There are two types of commands; Functional Execution Commands and Status Read Command.
 - Example of Functional Execution Command: "CF_BRIGHT_032" [CR]
 - Example of Status Read Command: "CR_BRIGHT" [CR]

Note) "_" means a space

3. 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.

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



Do not send another command before the reception of the return value; the operation by the command is not ensured.

However this is not the case when no response is returned after more than 5 seconds.

 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

- 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.
- 2. [CR]: Carriage Return Code

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

Response is also followed by carriage return code.

3. _: Space Code

Space Code is represented as (_).

4. %1: Parameter included in Command

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

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	Item
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 Temperature
CF_OFFSET-R_%1 [CR]	Set Red value of Offset
CF_OFFSET-G_%1 [CR]	Set Green value of Offset
CF_OFFSET-B_%1 [CR]	Set Blue value of Offset
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

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_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
61_1 66161KE_701 [614]	Mode %1
CF_PCMODEFREE %1 [CR]	Delete the values registered in Mode %1 and return it to
3 3322. KEE_701 [OK]	Free status.

5.3 Input Control Command Table

Execute command	Item
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 currently selected Input

5.4 Screen Control Command Table

Execute command	Item
CF_SCREEN_%1 [CR]	Select Screen size
CF_DZCENT _%1 [CR]	Cancel Digital Zoom mode
CF_VSCALE_%1[CR]	Set V Scale
CF_VPOS_%1[CR]	Set V Position
CF_HSCALE_%1[CR]	Set H Scale
CF_HPOS_%1[CR]	Set H Position
CF_KEYSTONE _%1 [CR]	Set Keystone correction
CF_KYSTNMODE _%1 [CR]	Set Keystone store mode
CF_CORNER-UL_%1[CR]	Correct top-left corner
CF_CORNER-UR_%1[CR]	Correct top-right corner
CF_CORNER-DL_%1[CR]	Correct bottom-left corner
CF_CORNER-DR_%1[CR]	Correct bottom-right corner
CF_CORNERTESTPAT_%1[CR]	Select test pattern for Corner correction.
CF_CEIL_%1 [CR]	Set ON/OFF of Ceiling
CF_REAR_%1 [CR]	Set ON/OFF of Rear
CF_SCREENASPECT_%1 [CR]	Set Screen aspect function

5.5 Lamp Command Table

Execute command	Item
CF_LAMPMODE_%1 [CR]	Select Lamp mode
CF_LAMPLIFECONTRL_%1 [CR]	Select Lamp life mode

5.6 Sound Command Table

Execute command	Item
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	Item
CF_LANG_%1 [CR]	Select language for OSD
CF_MENUPOSITION_%1 [CR]	Select the position of the On-Screen Menu.
CF_INPUTBUTTON_%1[CR]	Set up Input search function
CF_DISP_%1 [CR]	Set ON/OFF of On Screen Display
CF_BACKGND_%1[CR]	Select screen for no signal
CF_LOGO_%1 [CR]	Set PIN code and mode for Logo
CF_PIP_%1[CR]	Set "Picture in Picture"
CF_PIPMODE_%1[CR]	Set mode of "Picture in Picture"
CF_PIPMAININP_%1_%2[CR]	Select Input and Source for "Picture in Picture" (Main picture)
CF_PIPSUBINP_%1_%2[CR]	Select Input and Source for "Picture in Picture" (Sub picture)
CF_PIPSIZE_%1_%2[CR]	Set picture size in "Picture in Picture"
CF_PIPPOSITION_%1[CR]	Set position in "Picture in Picture"
CF_PIPFRAMELOCK_%1[CR]	Set Frame lock in "Picture in Picture"
CF_PIPSTORE_%1[CR]	Store current status in "Picture in Picture" to User1-5
CF_PIPMODEFREE_%1[CR]	Clear registration value in User %1 and return to state of Free.
CF_PIPRST_%1[CR]	Reset setting of "Picture in Picture"
CF_HDMISETUP_%1[CR]	Set Image mode of HDMI menu.
CF_HDMISOUND_%1[CR]	Set Sound mode of HDMI menu.
CF_FILH_%1[CR]	Reset Filter used time
CF_FILTIMER_%1[CR]	Set time to display Filter cleaning / replacement warning
	on screen
CF_FILCTL_%1[CR]	Execute operation of scroll of filter
CF_FILSCRL_%1[CR]	Reset Filter scroll counter

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CF_FANSPEED_%1 [CR]	Set level of Fan Speed	
CF_SIMPLEMODE_%1 [CR]	Set Simple mode function	
CF_RCODE_%1 [CR]	Select Remote Control Code	
CF_RSENS_%1 [CR]	Select location of infrared remote receiver of remote control	
CF_P-MANE_%1 [CR]	Set Power Management function	
CF_P-MANETIME_%1 [CR]	Set time of Power Management	
CF_STANDBYMODE_%1 [CR]	Set Standby mode	
CF_ON-STA_%1 [CR]	Set Direct on function	
CF_POINTER_%1[CR]	Set Pointer function	
CF_PTIMEMODE_%1[CR]	Set count up / count down in P-timer function	
CF_PTIMER_%1[CR]	Set the status of P-timer	
CF_PTIME_%1[CR]	Set the time for count down mode in P-timer function	
CF_KEYDIS_%1 [CR]	Prohibit RC/KEY control	
CF_PJPINCODE_%1[CR]	Enter PJ PIN code to cancel PJ lock	
CF_SHUTRCPROT_%1[CR]	Set valid / invalid of RC use on Shutter control function	
CF_SHUTKEYPROT_%1[CR]	Set valid / invalid use of key on the top panel on Shutter control function	
CF_SHUTH_%1[CR]	Set time of operating shutter management function	
CF_CCAPTIONDISP_%1[CR]	Set channel of Closed caption	
CF_CCAPTIONCOLOR_%1 [CR]	Set color of Closed caption	
CF_DELAYCTRL_%1[CR]	Set Video delay control function	
CF_TESTPAT_%1[CR]	Set Test pattern display function	
CF_FDEFAULT_%1 [CR]	Reset to Factory Default settings	

5.8 Other Command Table

Execute command	Item
CF_KEYEMU_%1 [CR]	The same operation as 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
CF_VMUTE_%1 [CR]	Set ON/OFF of Video Mute

6 Status Read Command Table

6.1 Image Status Read Command Table

Status Read command	Item
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_OFFSET-R[CR]	Get Offset Red
CR_OFFSET-G[CR]	Get Offset Green
CR_OFFSET-B[CR]	Get Offset Blue
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

6.2 PC Adjust Status Read Command Table

Status Read command	Item
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_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 terminal 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	Item
CR_SCREEN [CR]	Get selected screen size
CR_VSCALE[CR]	Get setting status of V Scale
CR_VPOS[CR]	Get setting status of V Position
CR_HSCALE[CR]	Get setting status of H Scale
CR_HPOS[CR]	Get setting status of H Position
CR_KYSTNMODE[CR]	Get selected Keystone store mode
CR_CORNERTESTPAT [CR]	Get setting of test pattern for Corner correction.
CR_CEIL [CR]	Get setting status of Ceiling
CR_REAR [CR]	Get setting status of Rear
CR_SCREENASPECT[CR]	Get setting status of Screen aspect

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 running time
CR_LAMPCORRESPH [CR]	Get lamp running time multiplied by a coefficient
CR_LAMPMODE [CR]	Get selected Lamp mode
CR_LAMPSTS [CR]	Get status of the Lamp
CR_PROJH [CR]	Get total running time of projector
CR_HMLAMP [CR]	Get the total number of lamps
CR_LAMPLIFECONTRL [CR]	Get selected mode in Lamp life control function

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	Item
CR_LANG [CR]	Get selected language
CR_INPUTBUTTON [CR]	Get setting status of Input button function
CR_DISP [CR]	Get setting status of Display
CR_BACKGND [CR]	Get setting status of Screen for no signal
CR_LOGO [CR]	Get setting status of Logo
CR_LOGOLOCK[CR]	Get setting status of Logo Lock
CR_PIP[CR]	Get setting status of "Picture in Picture"
CR_PIPMODE[CR]	Get setting status of Mode in "Picture in Picture"
CR_PIPMAININP[CR]	Get setting status of Input / Source for "Picture in Picture" (Main picture)
CR_PIPSUBINP[CR]	Get setting status of Input / Source for "Picture in Picture" (Sub picture)
CR_PIPSIZE[CR]	Get picture size in "Picture in Picture"
CR_PIPFRAMELOCK[CR]	Get setting status of Frame lock in "Picture in Picture"
CR_PIPSTORE[CR]	Get stored status in "Picture in Picture"
CR_HDMISETUP[CR]	Get status of Image mode of HDMI setup.
CR_HDMISOUND[CR]	Get status of Sound mode of HDMI setup.
CR_FILREMAIN[CR]	Get remaining number of usable Filter scroll

EIKI LC-WXL200 Expand Serial Command Functional Specifications

CR_FILH[CR]	Get Filter used time
	Get time to display Filter cleaning / replacement warning on
CR_FILTIMER[CR]	screen
CR_FILCOND[CR]	Get status of filter clog
CR_FILREPL[CR]	Get status of Filter cleaning / replacement time
CR_FANSPEED [CR]	Get selected Fan Control Speed
CR_SIMPLEMODE [CR]	Get selected mode in Simple mode function
CR_RCODE [CR]	Get selected Remote Control code
CR_RSENS [CR]	Get selected location of infrared remote receiver of remote control
CR_RTYPE [CR]	Get supported Remote Control type (IR/RF)
CR_P-MANE [CR]	Get Power management setting status
CR_P-MANETIME [CR]	Get setting time for Power Management
CR_STANDBYMODE [CR]	Get selected mode of Standby function
CR_ON-STA [CR]	Get setting status of Direct on
CR_POINTER[CR]	Get setting status of Pointer
CR_PTIMEMODE[CR]	Get setting mode of P-timer
CR_PTIMER[CR]	Get status of P-timer
CR_PTIME[CR]	Get setting time for count down mode in P-timer
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_SHUTRCPROT[CR]	Get remote controller disability status of the shutter
CR_SHUTKEYPROT[CR]	Get Key controller disability state of the shutter
CR_SHUTH[CR]	Get time setting to begin the shutter management
CR_CCAPTIONDISP[CR]	Get setting status of channel of Closed caption
CR_CCAPTIONCOLOR	Get setting status of color of Closed caption
[CR]	
CR_DELAYCTRL[CR]	Get selected mode of Video delay control
CR_TESTPAT[CR]	Get setting status of Test pattern

6.9 Other Status Read Command Table

Status Read command	Item
CR_STATUS [CR]	Get operating status of Projector
CR_SIGNAL [CR]	Get status of signal existence
CR_VMUTE [CR]	Get setting status of video mute (No show)
CR_FREEZE [CR]	Get setting status of Freeze
CR_TEMPFAIL [CR]	Get temperature when sensors approach abnormal temperature
CR_TEMP [CR]	Get current temperature
CR_SHUTCOND [CR]	Get setting status of Shutter
CR_SERIALNO [CR]	Get value of SERIAL NO.

7 Error Code Table

Error Code	Contents
?	-When the received data cannot be decoded -Parameter designation error (wrong digit number, including invalid value, etc.)
000	Normal reception (This is "Not" error)
101	The function is not available in the selected Mode
102	Selected value is 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.

Note) These error codes are applied to Expand Command, not to Basic Command

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]

PC → PJ: "000" [CR] ----- Acceptable

8.3 Operation Requirements

1. 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 occurred)	N/A
Abnormal Filter	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.

2. Functional Execution Commands are invalid when projector is in standby under Eco mode

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 Suspend mode.)	
Response	Acceptable	"000" [CR]
ТСОРОПОС	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 Suspend mode.)	
Response	Acceptable	"000" [CR]
Пооронос	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 Color (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 Suspend mode.)	
Response	Acceptable	"000" [CR]
recoporise	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 Suspend mode.)	
Response	Acceptable	"000" [CR]
recoporise	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 Suspend mode.)	
Response	Acceptable	"000" [CR]
1.0000100	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" Decrement 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 OFF status, the value returns to the original setting. (It is stored in Suspend mode.)	
Response	Acceptable	"000" [CR]
ТСОРОПОС	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 Suspend mode.)	
Response	Acceptable	"000" [CR]
. 100001100	Unacceptable	"Error Code"[CR]

8.4.8 CF_COLTEMP Command

Command	"CF_COLTEMP_%1" [CR]	
%1	"001" "002"	Xlow Low Mid High
Details	Set Color Temperature 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 Suspend mode.)	
Response	Acceptable	"000" [CR]
Теоропос	Unacceptable	"Error Code" [CR]

8.4.9 CF_OFFSET- Command

Command	"CF_OFFSET-%1_%2" [CR]	
%1	"R" RED "G" GREEN "B" BLUE	
%2	"000-063" Directly specify value of Color selected in %1 of Offset. "UP" Increment setting value of Color specified in %1 of Offset by 1 "DN" Decrement setting value of Color specified in %1 of Offset by 1	
Details	Set value of Color specified in %1 of Offset (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 Suspend mode.)	
Response	Acceptable	"000" [CR]
ccponoc	Unacceptable	"Error Code"[CR]

8.4.10 CF_NZRED Command

Command	"CF_NZRED_%1" [CR]	
%1	"OFF" Cancel Noise Reduction "ON" Set Noise Reduction "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 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 Suspend mode as well.)	
Response	Acceptable	"000" [CR]
Тесропос	Unacceptable	"Error Code" [CR]

8.4.11 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 Suspend mode.)	
Response	Acceptable	"000" [CR]
recopolise	Unacceptable	"Error Code" [CR]

8.4.12 CF_IMAGE Command

Command	"CF_IMAGE_%1" [CR]	
%1	"STAND" S "REAL "NATURAL" "CUSTOM1" "CUSTOM3" "CUSTOM4" "CUSTOM5" "CUSTOM6" "CUSTOM6" "CUSTOM7" "CUSTOM7" "CUSTOM8" "CUSTOM8"	Dynamic (Fixed value to enable projection with a sharp, powerful picture tone) Standard(Image adjust value is set to factory default for Still Image) Real (Fixed value to display graphic image with natural tone) Natural (Fixed value to provide image with more natural color and tone) Image (fixed value to focus on tone reproduction for movie) Image1 (the value adjusted and stored by user) Image3 (the value adjusted and stored by user) Image4 (the value adjusted and stored by user) Image5 (the value adjusted and stored by user) Image6 (the value adjusted and stored by user) Image7 (the value adjusted and stored by user) Image8 (the value adjusted and stored by user) Image9 (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]

8.4.13 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]
Тесропос	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.	
	Acceptable	"000" [CR]
Response	Unacceptable	"101" [CR] When input is Video signal When input is no 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" Increment setting value of Total Dots by 1 "DN" Decrement setting value of Total Dots by 1	
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.	
	Acceptable	"000" [CR]
Response	Unacceptable	"101" [CR] When input is Video signal When input is no signal

8.5.3 CF_CLPPHASE Command

Command	"CF_CLPPHASE_%1" [CR]	
%1	"UP" 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.	
	Acceptable	"000" [CR]
Response	Unacceptable	"101" [CR] When input is Video signal When input is no signal

8.5.4 CF_H-POS Command

Command	"CF_H-POS_%1" [CR]	
%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" Increment setting value of Horizontal Position by 1 "DN" Decrement setting value of Horizontal Position by 1	
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.	
	Acceptable	"000" [CR]
Response	Unacceptable	"101" [CR] When input is Video signal When input is no 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.	
	Acceptable	"000" [CR]
Response	Unacceptable	"101" [CR] When input is Video signal When input is no 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.	
	Acceptable	"000" [CR]
Response	Unacceptable	"101" [CR] When input is Video signal When input is no 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.	
	Acceptable	"000" [CR]
Response	Unacceptable	"101" [CR] When input is Video signal When input is no signal

8.5.8 CF_SETPCADJ Command

	_	
Command	"CF_SETPCADJ_%1" [CR]	
%1	None "EXT11-60"	
Details	Projecting ima command and image. (Availab · CF_F · CF_C · CF_L	TDOTS CLAMPPAHSE H - POS V - POS DDOTS DLINE T11-60" is specified in %1, "Ex Mode" (not like XGA1) is displayed in
	Acceptable	"000" [CR]
Response	Unacceptable	"101" [CR] When input is Video signal When input is no signal

8.5.9 CF_ORGMODE Command

0.3.3	_OKONODE	
Command	"CF_ORGMODE_%1" [CR]	
%1	"VGA1" "VGA2" : : : "XGA1" "1080I60" "1080I50" "720P60" "720P50" "575P" "480P" "480P" "1080PSF/24" - "1080PSF/25" - "1080PSF/30" - "1080P24" "1080P25" "1080P30" "1080P50" "1080P60"	nal is PC Analog;
Det-"-	and CF_SETP0 this command.	s set by PC control command such as CF_FSYNC/CF_TDOTS CADJ command, specify the signal originated with by issuing
Details	not to get PC si Note; To differe	is used to specify projector internal settings such as whether or gnal through IP (Available only in the normal Power ON status) intiate between 60Hz and 50Hz in 1080i and 720p, "60" or "50" add to the parameter in this command.
Response	Acceptable	"000" [CR]
1.00001100	Unacceptable	"101" [CR] When input isn't PC analog

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 Mode1-10. This command operates the same way as storing to Mode1-10 in PC Adjust Menu. (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
	Unacceptable	"101" [CR] When input is Video signal When input is no signal

8.5.11 CF_PCMODEFREE Command

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 "9" Set Mode9 to Free status "10" Set Mode10 to Free status	
Details	Delete the data registered in Custom Mode1–10 and returns it to Free status. This command operates the same way as storing to Mode1-10 in PC Adjust Menu. (Available only in the normal Power ON status)	
	Acceptable "000" [CR]	
Response	Unacceptable	"101" [CR] When input is Video signal When input is no signal

8.6 Input Control Command

8.6.1 CF_INPUT Command

Command	"CF_INPUT_%	I" [CR]
%1	"1" Select Input 1 (not switching Source) "2" Select Input 2 (not switching Source) "3" Select Input 3 (not switching Source) "4" Select Input 4 (Network viewer) "UP" Increment Input No. by 1 <with attached="" pj-net="">Input1→Input2→Input3→Input4→Input1→ <with pj-net="" unattached="">Input1→Input2→Input3→Input1→ "DN" Decrement Input No. by 1 <with attached="" pj-net="">Input4→Input3→Input2→Input1→Input4→ <with pj-net="" unattached="">Input4→Input3→Input2→Input1→Input4→ <with pj-net="" unattached="">Input3→Input2→Input1→Input3→</with></with></with></with></with>	
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 source-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 Input4on a projector with PJ-Net attached and power OFF, It comes to "101".	
Response	Acceptable	"000" [CR]
Посропос	Unacceptable	"Error Code" [CR]

8.6.2 CF_SOURCE Command

Command	"CF_SOURCE_%1" [CR]	
%1	Input 1	"ANALOG" Select RGB (PC Analog) Input "SCART" Select RGB (Scart) input "HDMI" Select HDMI input "UP" Select in PC Analog → Scart → HDMI → PC Analog order "DN" Select in PC Analog → HDMI → Scart → PC Analog order
	Input 2	"VIDEO" Select Video input "YPBPR" Select Y,Pb/Cb,Pr/Cr input "ANALOG" Select RGB input "UP" Select in VIDEO \rightarrow YPBPR \rightarrow RGB \rightarrow VIDEO order "DN" Select in VIDEO \rightarrow RGB \rightarrow YPBPR \rightarrow VIDEO order
	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]
Козропас	Unacceptable	"Error Code" [CR]

8.6.3 CF_INPUT 1 Command

Command	"CF_INPUT1_%1" [CR]	
%1	"ANALOG" "SCART" "HDMI"	
Details	Select Input 1 as well as Source specified in %1 (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
recoporise	Unacceptable	"Error Code" [CR]

8.6.4 CF_INPUT 2 Command

Command	"CF_INPUT2_%1" [CR]	
%1	"VIDEO" "YPBPR" "ANALOG"	Select Composite Video Input Select Y/Pb/Pr Input 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]	
ТСЭРОПЭС	Unacceptable	"Error Code" [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]	
recopolise	Unacceptable	"Error Code" [CR]

8.6.6 CF_INPUT 4 Command

Command	"CF_INPUT4_%1" [CR]		
%1	"NETWORK"	"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]	
1.0000100	Unacceptable	"Error Code" [CR]	

8.6.7 CF_SYSTEM Command

Command	"CF_SYSTEM_%	
		"VGA1" Select VGA1 "VGA2" Select VGA2
		: "XGA1" Select XGA1 :
	Input is PC Analog	"WXGA3"
%1	Input is PC Digital/AV HDCP	"D-XGA1" Select D-XGA1 : : "D-WXGA3" Select D-WXGA3 "D-1080I" Select D-1080i "D-1035I" Select D-1035i "D-720P" Select D-720p "D-575P" Select D-575p "D-480P" Select D-480p "D-1080PSF/24" Select D-1080psf/24 "D-1080PSF/25" Select D-1080psf/25 "D-1080PSF/30" Select D-1080psf/30
	Input is Y,Pb/Cb,Pr/Cr	"AUTO"
	Input is Video / 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]
iveshouse	Unacceptable	"Error Code" [CR]

8.7 Screen Control Command

8.7.1 CF_SCREEN Command

Command	"CF_SCREEN_%1" [CR]		
%1	Input is Compu	ter	"NORMAL"
χ.	Input is Video		"NORMAL"
	Common in AV/PC "RST" Reset Screen adjustment		"RST" Reset Screen adjustment
Details	Select screen size (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. Receiving "DZOOM_UP" or "DZOOM_DN" command immediately executes the function.		
Response	Acceptable	"000"	[CR]
Response	Unacceptable	"Error Code" [CR]	

8.7.2 CF_DZCENT Command

Command	"CF_DZCENT_%1" [CR]	
%1	"CENT" Cancel Digital Zoom (CENT: "CENTER")	
Details	Cancel Digital Zoom (Available only in the normal Power ON status and Input for Computer is selected) Release the image setting in case the image is enlarged or reduced.	
Response	Acceptable	"000" [CR]
Теоропос	Unacceptable	"101" [CR] When input is Video

8.7.3 CF_VSCALE Command

Command	"CF_VSCALE_%1" [CR]		
%1	"035"	+31 +2 ±0 1 2	
Details	Set Vscale (Available only in the normal Power ON status) *When the screen mode is not in "Custom", projector changes image mode into Custom by receiving this command. *When there is no signal detected, projector returns 101 and the command does not execute.		
Response	Acceptable	"000" [CR]	
	Unacceptable	"Error Code" [CR]	

8.7.4 CF_VPOS Command

Command	"CF_VPOS_%1" [CR]		
%1	"015"	+14 +2 ±0 	
Details	Set V Position (Available only in the normal Power ON status) *When the screen mode is not in "Custom", projector changes image mode into Custom by receiving this command. *When there is no signal detected, projector returns 101 and the command does not execute.		
Response	Acceptable	"000" [CR]	
	Unacceptable	"Error Code" [CR]	

8.7.5 CF_HSCALE Command

Command	"CF_HSCALE_%1" [CR]		
%1	"035"	+31 +2 ±0 1 2	
Details	Set Hscale (Available only in the normal Power ON status) *When the screen mode is not in "Custom", projector changes image mode into Custom by receiving this command. *When there is no signal detected, projector returns 101 and the command does not execute.		
Response	Acceptable	"000" [CR]	
	Unacceptable	"Error Code" [CR]	

8.7.6 CF_HPOS Command

Command	"CF_HPOS_%1" [CR]		
%1	"015"	+14 +2 ±0 1 2	
Details	Set H Position (Available only in the normal Power ON status) *When the screen mode is not in "Custom", projector changes image mode into Custom by receiving this command. *When there is no signal detected, projector returns 101 and the command does not execute.		
Response	Acceptable	"000" [CR]	
1000000	Unacceptable	"Error Code" [CR]	

8.7.7 CF_KEYSTONE Command

Command	"CF_KEYSTONE _%1" [CR]	
%1	"UP" Correct Keystone distortion to reduce upper part of image "FUP" Correct Keystone distortion to reduce upper part by 2 steps "DN" Correct Keystone distortion to reduce lower part of image "FDN" Correct Keystone distortion to reduce lower part by 2 steps "LEFT" Correct Keystone distortion to reduce left part of image "FLFT" Correct Keystone distortion to reduce left part by 2 steps "RIGHT" Correct Keystone distortion to reduce right part of image "FRGT" Correct Keystone distortion to reduce right part by 2 steps "RST" Return Keystone and Corner to default setting	
Details	Change level of Keystone distortion correction (Available only in the normal Power ON status). When reached the limit of the correction level, projector accepts the command but does not execute it. Receiving this command immediately invokes the operation. When trying to set the value beyond available range, error code "201" is returned and the operation is not executed. Example 1: When the correction level of the right part has reached its upper limit and then the command "RIGHT" is received Example 2: When the upper part correction allows only another step, and then the command "FUP" is received.	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.7.8 **CF_KYSTONMODE Command**

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

8.7.9 CF_CORNER-UL Command

Command	"CF_CORNER-UL_%1"[CR]	
%1	"UP" Correct the horizontal line of image upwards "DN" Correct the horizontal line of image downwards "LEFT" Correct the vertical line of image to the left "RIGHT" Correct the vertical line of image to the right	
Details	(Available in norm The correction star	corner of the image. nal Power ON status only) ts with the first command received
	Projector returns error code ""101 and no operation is made when exceeding the correction limit,	
Response	Acceptable	"000"[CR]
1.00001100	Unacceptable	"Error Code"[CR]

8.7.10 CF_CORNER-UR Command

Command	"CF_CORNER-UR_%1"[CR]	
%1	"UP" Correct the horizontal line of image upwards "DN" Correct the horizontal line of image downwards "LEFT" Correct the vertical line of image to the left "RIGHT" Correct the vertical line of image to the right	
Details	Correct the top-right corner of the image. (Available in normal Power ON status only) The correction starts with the first command received	
	Projector returns error code ""101 and no operation is made when exceeding the correction limit,	
Response	Acceptable "000"[CR]	
1.00001100	Unacceptable	"Error Code"[CR]

8.7.11 CF_CORNER-DL Command

Command	"CF_CORNER-DL%1"[CR]	
%1	"UP" Correct the horizontal line of image upwards "DN" Correct the horizontal line of image downwards "LEFT" Correct the vertical line of image to the left "RIGHT" Correct the vertical line of image to the right	
Details	Correct the bottom-left corner of the image. (Available in normal Power ON status only) The correction starts with the first command received	
	Projector returns error code ""101 and no operation is made when exceeding the correction limit,	
Response	Acceptable "000"[CR]	
response	Unacceptable	"Error Code"[CR]

8.7.12 CF_CORNER-DR Command

Command	"CF_CORNER-DR_%1"[CR]	
%1	"UP" Correct the horizontal line of image upwards "DN" Correct the horizontal line of image downwards "LEFT" Correct the vertical line of image to the left "RIGHT" Correct the vertical line of image to the right	
Details	Correct the bottom-right corner of the image. (Available in normal Power ON status only) The correction starts with the first command received Projector returns error code ""101 and no operation is made when exceeding	
	the correction limit,	
Response	Acceptable	"000"[CR]
	Unacceptable	"Error Code"[CR]

8.7.13 CF_CORNERTESTPAT Command

Command	"CF_CORNERTESTPAT_%1"[CR]	
%1	"RED" Se "WHITE" Se "BLUE" Se "OFF" Se	lect White lect Blue
Details	Display test patterns for Corner correction. (Available in normal Power ON status only) The value set by this command is stored in EEPROM and its setting is effective even after ALL is OFF.	
Response	Acceptable "000"[CR]	
reoponse	Unacceptable	"Error Code" [CR]

8.7.14 CF_CEIL Command

Command	"CF_CEIL_%1" [CR]	
%1	"ON" Set Ceiling to ON. "OFF" Set Ceiling to OFF.	
Details	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.	
Response	Acceptable	"000" [CR]
Response	Unacceptable	"Error Code" [CR]

8.7.15 CF_REAR Command

Command	"CF_REAR_%1" [CR]	
%1	"ON" Set Rear to ON. "OFF" Set Rear to OFF.	
Details	Set/Cancel Rear mode (Available only in the normal Power ON status) When Rear is ON, projected image is left/right reversed. 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]
responde	Unacceptable	"Error Code" [CR]

8.7.16 CF_SCREENASPECT Command

Command	"CF_SCREENASPECT_%1"[CR]	
%1	"169MODE" · ·	Select 4:3 mode Select 16:9 mode Select 16:10 mode
Details	Set Screen aspect mode. This command is available in normal Power ON status.	
Response	Acceptable	"000"[CR]
reopense	Unacceptable	"Error Code"[CR]

8.8 Lamp Command

8.8.1 CF_LAMPMODE Command

Command	"CF_LAMPMODE_%1" [CR]	
%1		Set Lamp status to Eco1 mode Set Lamp status to Eco2 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]	
Теоропос	Unacceptable	"Error Code" [CR]

8.8.2 CF_LAMPLIFECONTRL_ Command

Command	"CF_LAMPLIFECONTRL_%1" [CR]	
%1	"MODE1" Set Lamp life control to Mode 1 "MODE2" Set Lamp life control to Mode 2	
Details	Select Lamp life control function (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]
rtooponoo	Unacceptable	"Error Code" [CR]

8.9 Sound Command

8.9.1 CF_VOLUME Command

Command	"CF_VOLUME_%1" [CR]	
%1	"UP" Directly specify value of Volume. "UP" divide by 1 "DN" Decrement setting value of Volume by 1	
Details	Control level of Volume (Available only in the normal Power ON status) Set Volume Up/Down the same way as RC and also directly specify value of Volume. When setting Volume value, the Sound Mute ON status is canceled just like RC operation. The value set by this command is stored in Projector's memory. * When input signal is Network, error code "101" is returned.	
Response	Acceptable	"000" [CR]
Теоропос	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) * When input signal is Network, error code "101" is returned.	
Response	Acceptable	"000" [CR]
Теоропос	Unacceptable	"Error Code" [CR]

8.9.3 CF_BLTINSP Command

Command	"CF_BLTINSP_%1" [CR]	
%1	"ON" Set Built-in speaker to ON "OFF" Set Built-in speaker to OFF	
Details	Control ON/OFF of Built-in speaker (Available only in the normal Power ON status) * When input signal is Network, error code "101" is returned.	
Response	Acceptable	"000" [CR]
reoponse	Unacceptable	"Error Code" [CR]

8.10 Setting Command

8.10.1 CF_LANG Command

Command	"CF_LANG_%1" [CR]	
%1	"ENG"	
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]
	Unacceptable	"Error Code" [CR]

8.10.2 CF_MENUPOSITION Command

Command	"CF_MENUPOSITION_%1" [CR]	
%1	"SET"	Move the menu display to next position
Details	Change the menu position (Available in normal Power ON status only). The position set by this command is stored in EEPROM and its setting is effective after ALL is OFF. Position: center – bottom left – bottom right – top left – top right – center – Menu display appears with the first command when menu display is not shown on the screen	
Response	Acceptable	"000" [CR]
1 (Coponio	Unacceptable	"Error Code" [CR]

8.10.3 CF_INPUTBUTTON Command

Command	"CF_INPUTBUTTON_%1" [CR]	
%1	"MODE1" Set Input button operation to MODE1 "MODE2" Set Input button operation to MODE2 "MODE3" Set Input button operation to MODE3	
Details	Set Input button operation mode. (Available in normal Power ON status only). The status set by this command is stored in EEPROM and its setting is effective after ALL is OFF	
Response	Acceptable	"000" [CR]
recoporise	Unacceptable	"Error Code" [CR]

8.10.4 CF_DISP Command

Command	"CF_DISP_%1" [CR]	
%1	"ON" Set Display to On "CNTDWNOFF" Set Display to Count down Off "OFF" Set Display to Off "UP" Switch forward (On \rightarrow Count down Off \rightarrow Off \rightarrow On \rightarrow) "DN" Switch backward (On \rightarrow Off \rightarrow Count down Off \rightarrow On \rightarrow)	
Details	Set Display mode.(Available only in the normal Power ON status) The value 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]
recoporise	Unacceptable	"Error Code" [CR]

8.10.5 CF_BACKGND Command

Command	"CF_BACKGND_%1" [CR]	
%1	"BLUE"	
Details	Set Screen status for no signal.(Available only in the normal Power ON status) The status set by this command is stored in EEPROM and the setting remains even after the power is turned to ALL OFF status. *When %1="USER" is received, error code "101" is returned, in the case of Capture non-practice.	
Response	Acceptable	"000" [CR]
Посропос	Unacceptable	"Error Code" [CR]

8.10.6 CF_LOGO Command

Command	"CF_LOGO_%1_%2" [CR]	
%1	"0000 – 9999" -	Directly set Logo PIN code
%2	"DFLT" "USER" "UP"	Cancel Logo displaySelect Logo of Factory DefaultSelect UserSelect functions to choose forward (OFF → DFLT → USER → OFF →)Select functions to choose backward (OFF → USER → DFLT → 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	
Response	Acceptable	"000" [CR]
1.00001100	Unacceptable	"Error Code" [CR]

8.10.7 CF_PIP Command

Command	"CF_PIP_%1" [CR]	
%1	"USER1" "USER2" "USER3" "USER4"	Select Off Select User1 Select User2 Select User3 Select User4 Select User5
Details	Set "Picture in Picture" status.(Available only in the normal Power ON status) The status set by this command is stored in EEPROM and the setting remains even after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
Тесропос	Unacceptable	"Error Code" [CR]

8.10.8 CF_PIPMODE Command

Command	"CF_PIPMODE_%1" [CR]	
%1	"PINP" Select P in P mode "PBYP" Select P by P mode	
Details	Set mode in "Picture in Picture". (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
recoporise	Unacceptable	"Error Code" [CR]

8.10.9 CF_PIPMAININP Command

Command	"CF_PIPMAININP_%1_%2" [CR]	
%1	"1" Select Input 1 "2" Select Input 2 "3" Select Input 3	
%2	"ANALOG" Select Analog Input "VIDEO" Select Composite Video Input "S-VIDEO" Select S-Video input "YPBPR" Select Y/Pb/Pr Input "YCBCR" Select Y/Cb/Cr Input "SCART" Select SCART Input "HDMI" Select HDMI Input	
Details	Select input and source of Main picture of "Picture in Picture". (Valid only when in the normal Power ON status.)	
Response	Acceptable	"000" [CR]
1.00001100	Unacceptable	"Error Code" [CR]

8.10.10 CF_PIPSUBINPU Command

Command	"CF_PIPSUBIN	"CF_PIPSUBINP_%1_%2" [CR]	
%1	"1" Select Input 1 "2" Select Input 2 "3" Select Input 3		
%2	"ANALOG"		
Details	Select input and source of Sub picture of "Picture in Picture". (Valid only when in the normal Power ON status.)		
Response	Acceptable	"000" [CR]	
. 100001100	Unacceptable	"Error Code" [CR]	

8.10.11 CF_PIPSIZE Command

Command	"CF_PIPSIZE_"	"CF_PIPSIZE_%1_%2" [CR]	
%1	"2"	Set main picture size to 10% Set main picture size to 20% Set main picture size to 30% Set main picture size to 40% Set main picture size to 50% Set main picture size to 60% Set main picture size to 70% Set main picture size to 80% Set main picture size to 90% Set main picture size to 100%	
%2	"1" Set sub picture size to 10% "2" Set sub picture size to 20% "3" Set sub picture size to 30% "4" Set sub picture size to 40% "5" Set sub picture size to 50%		
Details	Set display size of "Picture in Picture". (Valid only when in the normal Power ON status.) *When "Picture in Picture" is set to Off, return "101" [CR]		
Response	Acceptable	"000" [CR]	
Теоропоо	Unacceptable	"Error Code" [CR]	

8.10.12 CF_PIPPOSITION Command

Command	"CF_PIPPOSITION_%1" [CR]	
%1	"POS1" Move main picture position to up "POS2" Move main picture position to down "POS3" Move main picture position to left "POS4" Move main picture position to right "POS5" Move sub picture position to up "POS6" Move sub picture position to down "POS7" Move sub picture position to left "POS8" Move sub picture position to right	
Details	Set position of "Picture in Picture". (Valid only when in the normal Power ON status.) This function is worked from the first reception of Command. * When setting beyond the area of movement is carried out, return Error Code "101" [CR] and the command is not executed. Ex.1) When movement to right side has already reached limit; and "RIGHT" is received. *When "Picture in Picture" is set to Off, return "101" [CR]	
Response	Acceptable	"000" [CR]
1100001100	Unacceptable	"Error Code" [CR]

8.10.13 CF_PIPFRAMELOCK Command

Command	"CF_PIPFRAMELOCK_%1" [CR]	
%1	"MAIN" Set to main picture "SUB" Set to sub picture	
Details	Set Frame lock of "Picture in Picture". (Valid only when in the normal Power ON status.)	
Response	Acceptable	"000" [CR]
ТСОРОПОС	Unacceptable	"Error Code" [CR]

8.10.14 CF_PIPSTORE Command

Command	"CF_PIPSTORE_%1" [CR]	
%1	"USER1" Store current setting status to User 1 "USER2" Store current setting status to User 2 "USER3" Store current setting status to User 3 "USER4" Store current setting status to User 4 "USER5" Store current setting status to User 5	
Details	Store setting status of "Picture in Picture". (Valid only when in the normal Power ON status.) This command operates the same way as storing to User1-5 in "Picture in Picture" Menu. The status set by this command is stored in EEPROM and the setting remains even after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
recoporise	Unacceptable	"Error Code" [CR]

8.10.15 CF_PIPMODEFREE Command

Command	"CF_PIPMODEFREE_%1" [CR]	
%1	"USER1" Set User1 to Free status "USER 2" Set User2 to Free status "USER 3" Set User3 to Free status "USER 4" Set User4 to Free status "USER 5" Set User5 to Free status	
Details	Delete the data registered in Custom User1–5 and returns it to Free status. This command operates the same way as setting Mode free for User1-5 in "Picture in Picture" Menu. (Available only in the normal Power ON status) *When there is only one user mode of stored state, return "101" [CR]	
Response	Acceptable "000" [CR]	
Тесропос	Unacceptable	"Error Code" [CR]

8.10.16 CF_PIPRST Command

Command	"CF_PIPRST_%1" [CR]	
%1	"RST" Reset current setting status	
Details	Reset current setting status of "Picture in Picture". (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
Теоропос	Unacceptable	"Error Code" [CR]

8.10.17 CF_ HDMI SETUP Command

Command	"CF_ HDMI SETUP _%1"[CR]	
%1	_	Select Normal mode Select Enhanced mode
Details	Select image mode of HDMI setup. The status set by this command is stored in EEPROM and its setting is effective after ALL is OFF This command is available in normal Power ON status.	
Response	Acceptable	"000"[CR]
recoporise	Unacceptable	"Error Code" [CR]

8.10.18 CF_HDMI SOUND Command

Command	"CF_HDMI SOUND_%1"[CR]	
%1	"HDMI" "EXTERNAL"	
Details	Select sound mode of HDMI setup. The status set by this command is stored in EEPROM and its setting is effective after ALL is OFF This command is available in normal Power ON status.	
Response	Acceptable	"000"[CR]
Тоороноо	Unacceptable	"Error Code" [CR]

8.10.19 CF_FILH Command

Command	"CF_FILH_%1" [CR]	
%1	"RST" Reset Filter used time	
Details	Reset used time for filter of projector	
Response	Acceptable	"000" [CR]
Тесропос	Unacceptable	"Error Code" [CR]

8.10.20 CF_FILTIMER Command

Command	"CF_FILTIMER_%1" [CR]	
%1	"0400" Set 400 hours "0700" Set 700 hours "1000" Set 1000 hours "OFF" Set Off(Do not warning display)	
Details	Set time to display Filter cleaning / replacement warning on screen	
Response	Acceptable	"000" [CR]
Тоороноо	Unacceptable	"Error Code" [CR]

8.10.21 CF_FILCTL Command

Command	"CF_FILCTL_%1" [CR]	
%1	"ROLL" Execute operation of scroll of filter	
Details	Execute operation of scroll of filter	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.10.22 CF_FILSCRL Command

Command	"CF_FILSCRL_%1" [CR]	
%1	"RST" Reset Filter scroll counter	
Details	Reset Filter scroll counter	
Response	Acceptable	"000" [CR]
Теоропос	Unacceptable	"Error Code" [CR]

8.10.23 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]
ТСОРОПОС	Unacceptable	"Error Code" [CR]

8.10.24 CF_SIMPLEMODE Command

Command	"CF_SIMPLEMODE_%1" [CR]	
%1	"ON" Set Simple mode to ON "OFF" Set Simple mode to OFF	
Details	Set Simple 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]
Response	Unacceptable	"Error Code" [CR]

8.10.25 CF_RCODE Command

Command	"CF_RCODE_%1" [CR]	
%1	"001"	
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]
Посропос	Unacceptable	"Error Code" [CR]

8.10.26 CF_RSENS Command

Command	"CF_RSENS_%1" [CR]	
%1	"ALL" ——————————————————————————————————	
Details	Select location of infrared remote receiver 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]
recoporido	Unacceptable	"Error Code" [CR]

8.10.27 CF_P-MANE Command

Command	"CF_P-MANE_%1" [CR]	
%1	"OFF" Set Power Management to Off "READY" Set Power Management to Ready "SHUTDOWN" Set Power Management to Shut Down mode "UP" Switch forward (Off→Ready→Shut down→Off) "DN" Switch backward (Off→Shut down→Ready→Off)	
Details	Set/Cancel Power Management (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]	
rtooponoo	Unacceptable	"Error Code" [CR]

8.10.28 CF_P-MANETIME Command

Command	"CF_P-MANETIME_%1" [CR]	
%1	"01" - "30" Directly specify setting time by the minute "UP" Increment value by 1 (Switched in $01 \rightarrow 02 \rightarrow \cdots \rightarrow 30 \rightarrow 01$ order) "DN" Decrement value by 1 (Switched in $30 \rightarrow 29 \rightarrow \cdots \rightarrow 01 \rightarrow 30$ order)	
Details	Set time of Power Management time (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]
response	Unacceptable	"Error Code" [CR]

8.10.29 CF_STANDBYMODE Command

Command	"CF_STANDBYMODE_%1" [CR]	
%1	"ECO" Less standby electricity "NORMAL" Normal standby electricity	
Details	Switch Standby Mode setting. (Available in normal Power ON status only).	
Response	Acceptable	"000" [CR]
Теоропос	Unacceptable	"Error Code" [CR]

8.10.30 CF_ON-STA Command

Command	"CF_ON-STA_%1" [CR]	
%1	"ON" Set Direct on active. "OFF" Set Direct on inactive. "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 remains effective even after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.10.31 CF_POINTER Command

Command	"CF_POINTER_%1" [CR]	
%1	"ARROW" Select Arrow Pointer "FINGER" Select Finger Pointer "LASER" Select Dot Pointer	
Details	Select indication of Pointer. (Available only in the normal Power ON status) The status set by this command is stored in EEPROM and setting value remains effective even after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
Теоропос	Unacceptable	"Error Code" [CR]

8.10.32 CF_PTIMEMODE Command

Command	"CF_PTIMEMODE_%1" [CR]	
%1	"COUNTUP" Set P-timer to Count up mode "COUNTDN" Set P-timer to Count down mode	
Details	Select count up/down mode of P-timer. (Available only in the normal Power ON status) The status set by this command is stored in EEPROM and setting value remains effective even after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
1.00001100	Unacceptable	"Error Code" [CR]

8.10.33 CF_PTIMER Command

Command	"CF_PTIMER_%1" [CR]	
%1	"START"	
Details	Select the status of P-timer. (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.10.34 CF_PTIME Command

Command	"CF_PTIME_%1" [CR]	
%1	"001" – "180" Directly specify setting time	
Details	Set the time for Count down mode of P-timer. (Available only in the normal Power ON status) The status set by this command is stored in EEPROM and setting value remains effective even after the power is turned to ALL OFF status.	
Response	Acceptable	"000" [CR]
recoporise	Unacceptable	"Error Code" [CR]

8.10.35 CF_KEYDIS Command

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

8.10.36 CF_PJPINCODE Command

Command	"CF_PJPINCODE_%1" [CR]	
%1	"0000 – 9999" -	Directly specify PJ PIN code
Details	status) PIN code can n *When PIN code PIN code is n PIN code is n PIN code is b *When PIN code PIN code is w PIN code is o This command code after Pow	e to cancel PIN code lock (Available only in the normal Power ON not be changed. (Only PIN code lock is canceled.) le Lock is enabled: matched
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.10.37 CF_SHUTRCPROT Command

Command	"CF_SHUTRCPROT_%1" [CR]	
%1	"ON" Disable RC key from controlling Shutter (Protection On) "OFF" Enable RC key to control Shutter (Protection Off)	
Details	Set valid / invalid of RC use on Shutter control function (Valid only when in the normal Power ON status)	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.10.38 CF_SHUTKEYPROT Command

Command	"CF_SHUTKEYPROT_%1" [CR]	
%1	"ON" Disable key on the top panel from controlling Shutter (Protection On) "OFF" Enable key on the top panel to control Shutter (Protection Off)	
Details	Set valid / invalid use of key on the top panel on Shutter control function. (Valid only when in the normal Power ON status)	
Response	Acceptable	"000" [CR]
Теоропос	Unacceptable	"Error Code" [CR]

8.10.39 CF_SHUTH Command

Command	"CF_SHUTH_%1" [CR]	
%1	"005"-"480" Specify setting time directly "UP" Add 1 minute "DN"Decrease 1 minute	
Details	Set time of operating shutter management function. (Valid only when 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]
Тесропос	Unacceptable	"Error Code" [CR]

8.10.40 CF_CCAPTIONDISP Command

Command	"CF_CCAPTIONDISP_%1"[CR]	
%1	"OFF" Select Off "CC1" Select CC1 "CC2" Select CC2 "CC3" Select CC3 "CC4" Select CC4	
Details	Select channel of Closed caption. The status set with this command is stored in EEPROM and its setting is effective even after ALL is OFF. This command is available in normal Power ON status. Note)Closed caption is available under conditions below; Entered signal is appropriate (Video, NTSC signal of S-video, Component=480i) and System is fixed to NTSC or 480i.	
Response	Acceptable	"000"[CR]
Посропос	Unacceptable	"Error Code" [CR]

8.10.41 CF_CCAPTIONCOLOR Command

Command	"CF_CCAPTIONCOLOR_%1"[CR]	
%1	"COLOR" Select Color "WHITE" Select White	
Details	Select color of Closed caption. The status set with this command is stored in EEPROM and its setting is effective even after ALL is OFF. This command is available in normal Power ON status. Note)Closed caption is available under conditions below; Entered signal is appropriate (Video, NTSC signal of S-video) and System is fixed to NTSC.	
Response	Acceptable	"000"[CR]
Тооронос	Unacceptable	"Error Code"[CR]

8.10.42 CF_DELAYCTRL Command

Command	"CF_DELAYCTRL_%1" [CR]	
%1	"OFF" Set Video delay control to OFF "LOW" Set Video delay control to LOW "MID" Set Video delay control to MID "HIGH" Set Video delay control to HIGH	
Details	Select the mode of Video delay control (Valid only when 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]
response	Unacceptable	"Error Code" [CR]

8.10.43 CF_TESTPAT Command

Command	"CF_TESTPAT_%1" [CR]	
%1	"GRAD1" "GRAD2" "GRAD4" "WHITE" "BLACK" "CROSS" "OFF"	Display Color bar Display 16step(white→black) Display 16step(white←black) Display 16step(white↓black) Display 16step(white↑black) Display 16step(white↑black) Display all white Display all black Display Cross Do not show test pattern display Switch forward Switch backward
Details	Execute test pattern display. (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
	Unacceptable	"Error Code" [CR]

8.10.44 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]
Тоороноо	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	stopped. This is same way as pressing "AUTO PC" button of RC. This command is behaving the same as corresponding keys of Projector. Once Auto PC adj. is started with "AUTOPC" command, it does not stop with receiving the command another time. *When transmit command of CF_KEYEMU parameter - When User menu is displayed: function is carried out with having displayed User menu When User menu isn't displayed: error code "000" is returned, function is non-practice. * "101" is not returned even if a command of CF_KEYEMU is transmitted when cursor moves to the item which cannot toggle at an edge of the main menu example: Display main menu, and move to second menu of Image adj. Move a cursor to "Quit" position, and transmit a command of KEYEMU_DN. Then a cursor doesn't toggle and "000" is returned. *When transmit command of CF_KEYEMU AUTOPC - When practice of Auto pc adj is possible: Function is practice, "000" is returned When practice of Auto pc adj is impossible: display exclamation mark, "000" is returned.		
Response	Acceptable "000" [CR]		
response	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]
Тосропос	Unacceptable	"Error Code" [CR]

8.11.3 CF_POWER Command

Command	"CF_POWER_%1" [CR]		
%1	* Issuing an operation to b * Error Code command is in * Returning th status has alro Example: "000" [CR]	other command during countdown process forced countdown e 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 eady changed to Power ON. When the temperature approaches abnormal status after returning to the command CF_POWER ON. to get the projector status requires using Status Read command.	
Details	Set Power to ON/OFF		
Response	Acceptable	"000" [CR]	
responde	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]
Тесропос	Unacceptable	"Error Code" [CR]

8.11.5 CF_VMUTE Command

Command	"CF_VMUTE_%1" [CR]	
%1	"ON"Set Video Mute (Shutter Close) "OFF"Cancel Video Mute (Shutter Open)	
Details	Set / Cancel Video Mute. (Available only in the normal Power ON status)	
Response	Acceptable	"000" [CR]
Теоропос	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

$$PC \rightarrow PJ$$
: "CR_TDOTS" [CR]

PC ← PJ: "000_1344" [CR]

9.3 Operation Condition

- 1. Basically it should be always operated.
- 2. Status Read Commands are invalid when projector is in standby under Eco mode selected in Standby mode menu

9.4 Image Status Read Command

9.4.1 CR_BRIGHT Command

Command	"CR_BRIGHT" [CR]	
Details	Get user controlled value of Brightness	
	Acceptable	"000_%1"[CR]
Response	%1	"000 – 063"
	Unacceptable	"Error Code" [CR]

9.4.2 CR_CONT Command

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

9.4.3 CR_COLOR Command

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

9.4.4 CR_TINT Command

Command	"CR_TINT" [CR]	
Details	Get user controlled value of Tint	
Response	Acceptable	"000_%1" [CR]
	%1	"000 – 063"
	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	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Response	%1	"000 – 031"
	Unacceptable	"Error Code" [CR]

9.4.6 CR_GAMMA Command

Command	"CR_GAMMA" [CR]	
Details	Get user controlled value of Gamma	
	Acceptable	"000_%1" [CR]
Response	%1	"000 – 015"
	Unacceptable	"Error Code" [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	"Error Code" [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	"Error Code" [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]		"000_%1" [CR]
Response	%1	"000 – 063"
	Unacceptable	"Error Code" [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	"Error Code" [CR]

9.4.11 CR_OFFSET-R Command

Command	"CR_OFFSET-R" [CR]	
Details	Get user controlled Red value of Offset	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Response	%1	"000 – 063"
	Unacceptable	"Error Code" [CR]

9.4.12 CR_OFFSET-G Command

Command	"CR_OFFSET-G" [CR]	
Details	Get user controlled Green value of Offset	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Response	%1	"000 – 063"
	Unacceptable	"Error Code" [CR]

9.4.13 CR_OFFSET-B Command

Command	"CR_OFFSET-B" [CR]	
Details	Get user controlled Blue value of Offset	
	Acceptable "000_%1" [CR]	
Response	%1	"000 – 063"
	Unacceptable	"Error Code" [CR]

9.4.14 CR_NZRED Command

Command	"CR_NZRED" [CR]	
Details	Get Noise Reduction setting status	
Response	Acceptable	"000_%1" [CR]
	%1	"OFF" Cancel Noise Reduction "ON"Set Noise Reduction
	Unacceptable	"Error Code" [CR]

9.4.15 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	"Error Code" [CR]

9.4.16 CR_IMAGE Command

Command	"CR_IMAGE" [CR]
Details	Get image sett	ing status
	Acceptable	"000_%1" [CR]
Response	%1	"DYNAMIC"
	Unacceptable	"Error Code" [CR] When the command is invalid due to condition such as Input source. "?" [CR] When unknown command is received

9.4.17 CR_IMGGMD Command

Command	"CR_IMGGMD" [CR]	
Details	Get setting status of Standard/Real/Cinema in Image Gamma	
	Acceptable	"000_%1" [CR]
Response	%1	"DYN" Dynamic "STD" Standard "REL" Real "NTR" Natural "CNM" Cinema
	Unacceptable	"Error Code" [CR]

9.5 PC Adjust Status Read Command

9.5.1 CR_FSYNC Command

Command	"CR_FSYNC" [CR]	
Details	Get value of Fine Sync	
ı	Acceptable	"000_%1" [CR]
Dooponoo	%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	
	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 Clamp Phase value	
	Acceptable	"000_%1" [CR]
Response	%1	"0000 – 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 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]	
Details	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

	JIN_OINODI	
Command	"CR_ORGMOD	E" [CR]
Details		signal of current selected Mode that is set in PC Adj. 10 or EXT11-50 is not selected, get the current signal.
	Acceptable	"000_%1" [CR]
Response	%1	When input signal is PC Analog; "VGA1"
	Unacceptable	"Error Code" [CR]

9.5.9 CR_PCSTORE Command

Command	"CR_PCSTORE" [CR]	
Details	Get Free or Stored status of MODE1 - 10 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	"Error Code" [CR]

9.5.10 CR_SETPCADJ Command

Command	"CR_SETPCADJ" [CR]		
Details	Get PC signal for current system		
	Acceptable	"000_%1"[CR]	
Response	%1	When input signal is PC Analog; "VGA1"	
	Unacceptable	"Error Code" [CR]	

9.6 Video Status Read Command

9.6.1 CR_SERSYS Command

Command	"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 and HDMI signals)	
	Acceptable	"000_%1" [CR]
Response	%1	"1080PSF/24" 1080psf 24Hz "1080P60" 1080p 60Hz "1080P50" 1080p 50Hz "1080P30" 1080p 30Hz "1080P25" 1080p 25Hz "1080P24" 1080p 24Hz "1080I60" 1080i 60Hz , 1080psf 30Hz "1080I50" 1080i 50Hz , 1080psf 25Hz "1035I" 1035i "720P60" 720p 60Hz "720P50" 720p 50Hz "575P" 575p "480P" 480p "575I" 480i (includes Composite signal such as PAL) "480I" 480i (includes Composite signal such as NTSC) "NO_SIGNAL" No signal *When 1080psf30 or 1080psf25 is inputted in System Auto, parameter same as 1080i60/1080i50 is returned.
	Unacceptable	"101" [CR] When input signal is PC-Analog or HDMI "?" [CR] When unknown command is received

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	"Error Code" [CR]

9.7.2 CR_SOURCE Command

Command	"CR_SOURCE" [CR]	
Details	Get selected source	
	Acceptable	"000_%1" [CR]
Response	%1	"ANALOG"
	Unacceptable	"Error Code" [CR] When command is not available in the given condition (such as being selected input) "?" [CR] When unknown command is received

9.7.3 CR_SRCINP1 Command

Command	"CR_SRCINP1" [CR]	
Details	Get Source of INPUT1	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Response	%1	"ANALOG" in PC Analog mode "SCART" in Scart mode "HDMI" in HDMI mode
	Unacceptable	"Error Code" [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	"Error Code" [CR]	

9.7.5 CR_SRCINP3 Command

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

9.7.6 CR_SRCINP4 Command

Command	"CR_SRCINP4" [CR]	
Details	Get Source of INPUT4	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Doggoogo	%1	"NETWORK" With PJ-Net attached and the power ON
Response	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			
Details	_		"000 0/4" [CD]	
	A	Input is PC Analog	"000_%1" [CR] "VGA1"	
Response	%1	Input is PC-Digital/ AV-HDCP	## ## ## ## ## ## ## ## ## ## ## ## ##	
			"D-1080PSF/25" indicates D-1080psf/25 is selected "D-1080PSF/30" indicates D-1080psf/30 is selected * Error Code "101" [CR] is returned for no signal "AUTO" indicates Auto is selected	
		Input is Y,Pb/Cb,Pr/Cr	"1080P"	
		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" selected whether or not signal is coming.	
	Un	acceptable	"Error Code" [CR]	

9.7.8 CR_SYSLIST Command

Command	"CR_SYSLIST" [CR]		
Details	Get possible systems for System list		
	Acceptable	"000_%1_%2%x" [CR]	
Response	%1	Error Code "101" is returned for no signal. Otherwise following values are returned according to Source. When input is PC-Analog; "XGA1"	
	Unacceptable	"Error Code" [CR]	

9.7.9 CR_MODELIST Command

Command	"CR_MODELIST" [CR]	
Details	Get possible modes for Mode list	
	Acceptable	"000_%1_%2%x" [CR]
Response	%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"
	Unacceptable	"Error Code" [CR]

9.7.10 CR_HMSLOT Command

Command	"CR_HMSLOT" [CR]	
Details	Get the total number of Input.	
	Acceptable	"000_%1" [CR]
Response	%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 information of Input1	
	Acceptable	"000_%1" [CR]
Response	%1	"RGB"
	Unacceptable	"Error Code" [CR]

9.7.12 CR_NMSLOT2 Command

Command	"CR_NMSLOT2" [CR]	
Details	Get terminal information of Input2	
Response	Acceptable	"000_%1" [CR]
	%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 terminal 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	"30" On-board (HDMI and D-Sub) Available source: ANALOG, SCART, HDMI
	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-board (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-board (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	
	Acceptable	"000_%1" [CR]
Response	%1	"NORMAL" Normal mode "FULL" Full screen mode "WIDE" Wide(16:9) mode "TRUE" True mode "ZOOM" Zoom mode "NATURAL" Natural mode "CUSTOM" Custom 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_VSCALE Command

Command	"CR_VSCALE" [CR]	
Details	Get setting status of V scale	
Response	Acceptable	"000_%1" [CR]
	%1	"-32" - "035"
	Unacceptable	"Error Code" [CR]

9.8.3 CR_VPOS Command

Command	"CR_VPOS" [CR]	
Details	Get setting status of V Position	
Response	Acceptable	"000_%1" [CR]
	%1	"-15" - "015"
	Unacceptable	"Error Code" [CR]

9.8.4 CR_HSCALE Command

Command	"CR_HSCALE" [CR]	
Details	Get setting status of H scale	
Response	Acceptable	"000_%1" [CR]
	%1	"-32" - "035"
	Unacceptable	"Error Code" [CR]

9.8.5 CR_HPOS Command

Command	"CR_HPOS" [CR]	
Details	Get setting status of H Position	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Response	%1	"-15" - "015"
	Unacceptable	"Error Code" [CR]

9.8.6 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

9.8.7 CR_CORNERTESTPAT Command

Command	"CR_CORNERTESTPAT" [CR]	
Details	Get setting status of test pattern for Corner correction	
	Acceptable	"000_%1" [CR]
Response	%1	"RED" Test pattern is red "WHITE" Test pattern is white "BLUE" Test pattern is blue "OFF" Test pattern is not displayed
	Unacceptable	"Error Code" [CR]

9.8.8 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]

9.8.9 CR_REAR Command

Command	"CR_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]

9.8.10 CR_SCREENASPECT Command

Command	"CR_SCREENASPECT"[CR]		
Details	Get status of Screen aspect		
	Acceptable	"000_%1"[CR]	
Response	%1	"43MODE" Select 4:3 mode "169MODE" Select 16:9 mode "1610MODE" Select 16:10 mode	
	Unacceptable	"Error code"[CR]	

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	
	Acceptable	"000_%1" [CR]
Response	%1	"NORMAL" Lamp mode is Normal status "ECO1" Lamp mode is Eco1 status "ECO2" Lamp mode is Eco2 status "AUTO" Lamp mode is Auto status
	Unacceptable	"?" [CR]

9.9.5 CR_LAMPSTS Command

Command	"CR_LAMPSTS" [CR]	
Details	Get Lamp status	
	Acceptable	"000_%1" [CR]
Response	%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)	
	Acceptable	"000_%1" [CR]
Response	%1	"0000000 – 0099999"
	Unacceptable	"Error Code" [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]

9.9.8 CR_LAMPLIFECONTRL Command

Command	"CR_LAMPLIFECONTRL" [CR]	
Details	Get setting status of Lamp life control	
	Acceptable	"000_%1" [CR]
Response	%1	"MODE1" Lamp life control is Mode1 status "MODE2" Lamp life control is Mode2 status
	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 * When input signal is Network, error code "101" is returned.	
	Acceptable	"000_%1" [CR]
Response	%1	"000 – 063"
	Unacceptable	"Error Code" [CR]

9.10.2 CR_MUTE Command

Command	"CR_MUTE" [CR]	
Details	Get setting status of Sound Mute. * When input signal is Network, error code "101" is returned.	
	Acceptable	"000_%1" [CR]
Response	%1	"ON" Sound Mute is ON. "OFF" Sound Mute is OFF.
	Unacceptable	"Error Code" [CR]

9.10.3 CR_BLTINSP Command

Command	"CR_BLTINSP" [CR]	
Details	Get setting status of Built- in speaker. * When input signal is Network, error code "101" is returned.	
Response	Acceptable	"000_%1" [CR]
	%1	"ON" Built-in speaker is ON. "OFF" Built-in speaker is OFF
	Unacceptable	"Error Code" [CR]

9.11 Setting Status Read Command

9.11.1 CR_LANG Command

Command	"CR_LANG" [CR]	
Details	Get selected language	
	Acceptable	"000_%1" [CR]
Response	%1	"ENG" ————————————————————————————————————
	Unacceptable	"Error Code" [CR]

9.11.2 CR_INPUTBUTTON Command

Command	"CR_INPUTBUTTON" [CR]	
Details	Get setting status of Input button	
	Acceptable	"000_%1" [CR]
Response	%1	"MODE1" Input button mode is Mode1. "MODE2" Input button mode is Mode2. "MODE3" Input button mode is Mode3.
	Unacceptable	"Error Code" [CR]

9.11.3 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	"Error Code" [CR]

9.11.4 CR_BACKGND Command

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

9.11.5 CR_LOGO Command

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

9.11.6 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]

9.11.7 CR_PIP Command

Command	"CR_PIP" [CR]	
Details	Get status of "Picture in Picture" setting	
Acceptab	Acceptable	"000_%1" [CR]
Response	%1	"USER1" User1 is selected "USER2" User2 is selected "USER3" User3 is selected "USER4" User4 is selected "USER5" User5 is selected
	Unacceptable	"Error Code" [CR]

9.11.8 CR_PIPMODE Command

Command	"CR_PIP" [CR]	
Details	Get Mode in "Picture in Picture"	
Response	Acceptable	"000_%1" [CR]
	%1	"PINP" P in P is selected "PBYP" P by P is selected
	Unacceptable	"Error Code" [CR]

9.11.9 CR_PIPMAININP Command

Command	"CR_PIPMAININP" [CR]	
Details	Get Input and Source for "Picture in Picture". (Main picture)	
	Acceptable	"000_%1_%2" [CR]
Response	%1	"1" Input1 is selected "2" Input2 is selected "3" Input3 is selected
	%2	"ANALOG
	Unacceptable	"Error Code" [CR]

9.11.10 CR_PIPSUBINPU Command

Command	"CR_PIPSUBINP" [CR]	
Details	Get Input and Source for "Picture in Picture". (Sub picture)	
	Acceptable	"000_%1_%2" [CR]
Response	%1	"1" Input1 is selected "2" Input2 is selected "3" Input3 is selected
	%2	"ANALOG
	Unacceptable	"Error Code" [CR]

9.11.11 CR_PIPSIZE Command

Command	"CR_PIPSIZE" [CR]		
Details	Get picture size	Get picture size for "Picture in Picture". (Sub picture)	
	Acceptable	"000_%1_%2" [CR]	
Response	%1	"1"	
	%2	"1" 10% is selected(Sub size) "2" 20% is selected(Sub size) "3" 30% is selected(Sub size) "4" 40% is selected(Sub size) "5" 50% is selected(Sub size)	
	Unacceptable	"Error Code" [CR]	

9.11.12 CR_PIPFRAMELOCK Command

Command	"CR_PIPFRAMELOCK" [CR]	
Details	Get setting status of Frame lock in "Picture in Picture".	
Response	Acceptable	"000_%1" [CR]
	%1	"MAIN" Main picture is selected "SUB" Sub picture is selected
	Unacceptable	"Error Code" [CR]

9.11.13 CR_PIPSTORE Command

Command	"CR_PIPSTORE" [CR]	
Details	Get status (Free or Stored) of User1-User5 for "Picture in Picture". Data consists of 5 bytes and each byte represents User1-5. (F:Free, S:Stored)	
	Acceptable	"000_%1" [CR]
Response	%1	"SFFFF" Only User1 is Stored, others are Free : "FFFFS" Only User5 is Stored, others are Free "SSSSS" All Stored
	Unacceptable	"Error Code" [CR]

9.11.14 CR_HDMI SETUP Command

Command	"CR_HDMI SETUP"[CR]	
Details	Get status of Image mode in HDMI setup	
Response	Acceptable	"000_%1"[CR]
	%1	"NORMAL" Image mode is Normal "ENHANCED" Image mode is Enhanced
	Unacceptable	"Error code"[CR]

9.11.15 CR_HDMI SOUND Command

Command	"CR_ HDMI SOUND"[CR]	
Details	Get status of Sound mode in HDMI setup	
Response	Acceptable	"000_%1"[CR]
	%1	"HDMI" PCM sound (Digital sound) is selected. "EXTERNAL" External sound input is selected.
	Unacceptable	"Error code"[CR]

9.11.16 CR_FILREMAIN Command

Command	"CR_FILREMAIN" [CR]	
Details	Get remaining number of usable Filter scroll	
Response	Acceptable	"000_%1" [CR]
	%1	"09" = Remaining number of usable Filter scroll: 9 times "00" = Remaining number of usable Filter scroll: 0 time
	Unacceptable	"Error Code" [CR]

9.11.17 CR_FILH Command

Command	"CR_FILH" [CR]	
Details	Get Filter used time	
Response	Acceptable	"000_%1" [CR]
	%1	"00000 - 99999"
	Unacceptable	"Error Code" [CR]

9.11.18 CR_FILTIMER Command

Command	"CR_FILTIMER" [CR]	
Details	Get Filter used time	
Response	Acceptable	"000_%1" [CR]
	%1	"0400" Display massage by 400h used. "0700" Display massage by 700h used. "1000" Display massage by 1000h used. "OFF" Off(Warning display is not displayed)
	Unacceptable	"Error Code" [CR]

9.11.19 CR_FILCOND Command

Command	"CR_FILCOND" [CR]	
Details	Get status of filter clog	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Response	%1	"CLOG" = Filter is clogged "WARN" = Filter is nearly clogged "CLEAN" = Filter is not clogged
	Unacceptable	"Error Code" [CR]

9.11.20 CR_FILREPL Command

Command	"CR_FILREPL" [CR]	
Details	Get status of Filter cleaning / replacement time	
	Acceptable	"000_%1" [CR]
Response	%1	"1Y"Filter Exchange time is over value of Filter Message. "1N"Filter Exchange time is not over value of Filter Message.
	Unacceptable	"Error Code" [CR]

9.11.21 CR_FANSPEED Command

Command	"CR_FANSPEED" [CR]	
Details	Get selected Fan Control Speed mode.	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Response	%1	"MAX" Max mode is selected "NOR" Normal mode is selected
	Unacceptable	"Error Code" [CR]

9.11.22 CR_SIMPLEMODE Command

Command	"CR_SIMPLEMODE" [CR]	
Details	Get setting status of Simple mode.	
	Acceptable	"000_%1" [CR]
Response	%1	"ON" Simple mode is ON "OFF" Simple mode is OFF
	Unacceptable	"Error Code" [CR]

9.11.23 CR_RCODE Command

Command	"CR_RCODE" [CR]	
Details	Get selected Remote Control Code	
	Acceptable	"000_%1" [CR]
Response	%1	"001"
	Unacceptable	"Error Code" [CR]

9.11.24 CR_RSENS Command

Command	"CR_RSENS" [CR]	
Details	Get selected location of infrared remote receiver of remote control	
	Acceptable	"000_%1" [CR]
Response	%1	"ALL" Select top, front and back receiver of projector "FRONTTOP" Select front and top receiver of projector "BACKTOP" Select back and top receiver of projector "FRONTBACK" Select front and back receiver of projector "FRONT" Select only front receiver of projector "TOP" Select only top receiver of projector "BACK" Select only back receiver of projector
	Unacceptable	"Error Code" [CR]

9.11.25 CR_RTYPE Command

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

9.11.26 CR_P-MANE Command

Command	"CR_P-MANE" [CR]	
Details	Get setting status of Power management	
	Acceptable	"000_%1" [CR]
Response	%1	"OFF" Power Management is disabled "READY" Power Management is set to Ready "SHUTDOWN" Power Management is set to Shut Down mode
	Unacceptable	"Error Code" [CR]

9.11.27 CR_P-MANETIME Command

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

9.11.28 CR_STANDBYMODE Command

Command	"CR_STANDBYMODE" [CR]	
Details	Get setting status of Standby mode	
	Acceptable "000_%1" [CR]	
Response	%1	"ECO" Less standby electricity "NORMAL" Normal standby electricity
	Unacceptable	"Error Code" [CR]

9.11.29 CR_ON-STA Command

Command	"CR_ON-STA" [CR]	
Details	Get Direct on setting status	
	Acceptable	"000_%1" [CR]
Response	%1	"ON" Direct on is active "OFF" Direct on is inactive
	Unacceptable	"Error Code" [CR]

9.11.30 CR_POINTER Command

Command	"CR_POINTER" [CR]	
Details	Get setting status of Pointer	
Acceptable "000_%a" [CR]		"000_%a" [CR]
Response	%1	"ARROW"
	Unacceptable	"Error Code" [CR]

9.11.31 CR_PTIMEMODE Command

Command	"CR_PTIMEMODE" [CR]	
Details	Get setting status of count up/down mode in P-timer	
	Acceptable "000_%a" [CR]	
Response	%1	"COUNTUP" Set P-timer to Count up mode "COUNTDN" Set P-timer to Count down mode
	Unacceptable	"Error Code" [CR]

9.11.32 CR_PTIMER Command

Command	"CR_PTIMER" [CR]	
Details	Get setting status of P-timer	
	Acceptable "000_%a" [CR]	
Response	%1	"ON" P-timer is activated "STOP" P-timer is temporarily suspended "OFF" Exit P-timer function
	Unacceptable	"Error Code" [CR]

9.11.33 CR_PTIME Command

Command	"CR_PTIME" [CR]	
Details	Get setting time for count down mode of P-timer	
Acceptable "000_%a" [CR]		"000_%a" [CR]
Response	%1	"001" - "180" 1 to 180 minutes
	Unacceptable	"Error Code" [CR]

9.11.34 CR_KEYDIS Command

Command	"CR_KEYDIS" [CR]	
Details	Get status of RC/KEY (valid or invalid)	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Response	%1	"NONE" RC and KEY, both are valid "RC" RC is invalid "KEY" KEY is invalid
	Unacceptable	"Error Code" [CR]

9.11.35 CR_SECURITY Command

Command	"CR_ SECURITY" [CR]	
Details	Get ON/OFF setting status of Security on menu.	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Response	%1	"ON" PJ is locked "OFF" PJ is not locked.
	Unacceptable	"Error Code" [CR]

9.11.36 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 released because PJ PIN code is entered.
	Unacceptable	"Error Code" [CR]

9.11.37 CR_PJLOCKMENU Command

Command	"CR_PJLOCKMENU" [CR]	
Details	Get ON/OFF setting status of PIN code lock on menu	
	Acceptable	"000_%1" [CR]
Response	%1	"ON1" PIN code lock ON 1 is set on the menu "ON2" PIN code lock ON 2 is set on the menu "OFF" PIN code lock OFF is set on the menu
	Unacceptable	"Error Code" [CR]

9.11.38 CR_SHUTRCPROT Command

Command	"CR_SHUTRCPROT" [CR]	
Details	Get status if Shutter can be controlled by R/C	
	Acceptable "000_%1" [CR]	
Response	%1	"ON" Shutter is not controllable by R/C "OFF" Shutter is controllable by R/C
	Unacceptable	"Error Code" [CR]

9.11.39 CR_SHUTKEYPROT Command

Command	"CR_SHUTKEYPROT" [CR]	
Details	Get status if Shutter can be controlled by key on the top panel	
Acceptable "000_%1" [CR]		"000_%1" [CR]
Response	%1	"ON" Shutter is not controllable by key on the top panel "OFF" Shutter is controllable by key on the top panel
	Unacceptable	"Error Code" [CR]

9.11.40 CR_SHUTH Command

Command	"CR_SHUTH" [CR]	
Details	Get time setting to start the shutter management	
	Acceptable	"000_%1" [CR]
Response	%1	"005" 5 minutes "006" 6 minutes : "479" 479 minutes "480" 480 minutes
	Unacceptable	"Error Code" [CR]

9.11.41 CR_CCAPTIONDISP Command

Command	"CR_CCAPTIONDISP"[CR]	
Details	Get selected channel of Closed caption	
	Acceptable	"000_%a"[CR]
Response	%a	"CC1" CC1 is selected "CC2" CC2 is selected "CC3" CC3 is selected "CC4" CC4 is selected
	Unacceptable	"Error Code"[CR]

9.11.42 CR_CCAPTIONCOLOR Command

Command	"CR_CCAPTIONCOLOR"[CR]	
Details	Get selected color of Closed caption	
	Acceptable "000"[CR]	
Response	%a	"COLOR" Color is selected "WHITE" White is selected
	Unacceptable	"Error Code"[CR]

9.11.43 CR_DELAYCTRL Command

Command	"CR_DELAYCTRL" [CR]	
Details	Get setting status of Video delay control	
	Acceptable "000_%1" [CR]	
Response	%1	"OFF" Set Video delay control to OFF "LOW" Set Video delay control to LOW "MID" Set Video delay control to MID "HIGH" Set Video delay control to HIGH
	Unacceptable	""Error Code" [CR]

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9.11.44 CR_TESTPAT Command

Command	"CR_TESTPAT" [CR]	
Details	Get setting status of Test pattern	
	Acceptable	"000_%1" [CR]
Response	%1	"COLOR"
	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 turned Off due to lamp failure "81" = Standby after Cooling Down due to lamp failure "2C" = Cooling Down in process after Power Off due to Shutter management "8C" = Standby after Cooling Down due to Shutter management
	Unacceptable	"Error Code" [CR]

9.12.2 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	"Error Code" [CR]

9.12.3 CR_VMUTE Command

Command	"CR_VMUTE" [CR]	
Details	Get setting status of Video Mute.	
	Acceptable "000_%1" [CR]	
Response	%1	"ON" Set Video Mute (Shutter CLOSE) "OFF" Cancel Video Mute (Shutter OPEN)
	Unacceptable	"Error Code" [CR]

9.12.4 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	"Error Code" [CR]

9.12.5 CR_TEMPFAIL Command

Command	"CR_TEMPFAIL" [CR]		
Details	Get the temperature inside a projector when abnormal temperature status occurs. It is possible to get the temperatures all at once when several sensors installed.		
	Acceptable	"000_%1_%2_%3" [CR]	
Response	%1,%2,%3	%1	
	Unacceptable	"Error Code" [CR]	

9.12.6 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.		
	Acceptable	"000_%1_%2_%3" [CR]	
Response	%1, %2, %3	%1	
	Unacceptable	"Error Code" [CR]	

9.12.7 CR_SHUTCOND Command

Command	"CR_SHUTCOND" [CR]	
Details	Get setting status of Shutter.	
Response	Acceptable	"000_%1" [CR]
	%1	"SAFE" Shutter operation is normal. "FAIL" Shutter operation is abnormal.
	Unacceptable	"Error Code" [CR]

9.12.8 CR_SERIALNO Command

Command	"CR_SERIALNO" [CR]	
Details	Get value of the serial number.	
	Acceptable "000_%1" [CR]	
Response	%1	Eight digits of alphanumeric characters
	Unacceptable	"Error Code" [CR]