

DLP®プロジェクター RICOH PJ WX3351N/WX3351/X3351N/X3351

シリアルコマンド資料



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本機はサービス用USB mini-BポートとPCをUSB接続することにより、PCからRS-232Cコマンド制御をすることが可能です。

ご使用の際は、PCにUSB to RS232変換アダプターコントローラー用ドライバーをインストールする必要があります。詳しくはサービス実施店にお問い合わせください。

●Format

<Command format>

Header: #
 Delimiter CR (0x0Dh)
 Command 3Byte (ASCII Character)
 Parameter Variable length
 (If the command has a parameter, place a colon before the parameter.)

<Response format>

Header: '='
 Delimiter CR (0x0Dh)
 Command 3Byte (ASCII Character, command echo)
 Parameter Variable length
 (If the command has a parameter, place a colon before the parameter.)

●Details and examples

<Execution Command>

Command
 # 'X' 'X' 'X' 'X' CR
 PARAM: None

Example
 Turn on the projector (Success)
 # 'P' 'O' 'N' CR

<Adjustment command>

Get

'X' 'X' 'X' 'X' CR
 PARAM: None

Example
 Get the volume (25)
 # 'V' 'V' 'L' CR

Set

'X' 'X' 'X' 'X' : PARAM CR

PARAM: [ASCII number] Set the value(+)
 '+' [ASCII number] Set the value(+)
 '-' [ASCII number] Set the value(-)
 'I' 'N' 'C' Increment the value (+1)
 'D' 'E' 'C' Decrement the value(-1)
 'M' 'A' 'X' Maximize the value
 'M' 'I' 'N' Minimize the value
 'I' 'N' 'I' initialize the value

Example
 Set the Contrast (-3)
 # 'V' 'C' 'N' : '-' '3' CR

Increment the Brightness (+3 -> +4)
 # 'V' 'B' 'R' : 'I' 'N' 'C' CR

Initialize the V Keystone (0)
 # 'P' 'K' 'S' : 'I' 'N' 'I' CR

<Setting Command>

Get

'X' 'X' 'X' 'X' CR
 PARAM: None

Example
 Get the language (English = 0)
 # 'L' 'N' 'G' CR

Set

'X' 'X' 'X' 'X' : PARAM CR

PARAM: [ASCII number] Set the value (See the conversion table.)
 'I' 'N' 'I' initialize the value

Example
 Set the language (Japanese = 10)
 # 'L' 'N' 'G' : 'I' '0' CR

Initialize the projection mode (standard = 0)
 # 'P' 'J' 'M' : 'I' 'N' 'I' CR

●Response of Illegal command

<Unsupported command>

Example
 Unknown Command
 # 'A' 'B' 'C' CR

Unknown Parameter
 # 'P' 'J' 'M' : 'X' 'Y' 'Z' CR

Response

'=' 'X' 'X' 'X' 'X' : 'S' 'C' ID CR

ID:Result(ASCII Character)
 0:Default
 Other: Reserved

'=' 'P' 'O' 'N' : 'S' 'C' '0' CR

'=' 'X' 'X' 'X' 'X' : PARAM CR

PARAM: Current value
 The parameter has no '0' in front of actual value.
 If the range of parameter includes negative value, the parameter other than 0 has a sign.
 If the range of parameter does not includes negative value, the parameter has no sign.

'=' 'V' 'V' 'L' : '2' '5' CR

'=' 'X' 'X' 'X' 'X' : PARAM CR

PARAM: Value after setting
 The parameter has no '0' in front of actual value.
 If the range of parameter includes negative value, the parameter other than 0 has a sign.
 If the range of parameter does not includes negative value, the parameter has no sign.

'=' 'V' 'C' 'N' : '-' '3' CR

'=' 'V' 'B' 'R' : '+' '4' CR

'=' 'P' 'K' 'S' : '0' CR

'=' 'X' 'X' 'X' 'X' : PARAM CR

PARAM: Current value (ASCII number. See the conversion table in the command list.)

'=' 'L' 'N' 'G' : '0' CR

'=' 'X' 'X' 'X' 'X' : PARAM CR

PARAM: The value after setting

'=' 'L' 'N' 'G' : 'I' '0' CR

'=' 'P' 'J' 'M' : '0' CR

'=' 'E' 'R' ID CR

ID:Error number(ASCII character)
 0: Default
 Other: Reserved

'=' 'E' 'R' '0' CR

'=' 'E' 'R' '0' CR

<Command error>

'='	'X'	'X'	'X'	' '	'E'	'R'	'ID'	'CR'
-----	-----	-----	-----	-----	-----	-----	------	------

ID:Error number(ASCII character)
0: Default
Other: Reserved

Example

Decrement the language (Unsupported parameter)

#	'L'	'N'	'G'	' '	'D'	'E'	'C'	'CR'
---	-----	-----	-----	-----	-----	-----	-----	------

'='	'L'	'N'	'G'	' '	'E'	'R'	'0'	'CR'
-----	-----	-----	-----	-----	-----	-----	-----	------

Send the Power Off command when the projector is standby mode.

#	'P'	'O'	'F'	'CR'
---	-----	-----	-----	------

'='	'P'	'O'	'F'	' '	'E'	'R'	'0'	'CR'
-----	-----	-----	-----	-----	-----	-----	-----	------

●Notes

- Numerical parameter has a sign. If it has no sign, the parameter is assumed to positive value.
- Numerical parameter is able to have a '0' in front of a valid value. For instance, parameter "+0012" is the same as "+12".
- Numerical parameter is limited from -2^{31} to $(2^{31}-1)$.
- Maximum command length is 128Byte.
- Ignore the BYTE code other than ASCII character.

Function	Command Name	SET							Command	Response																			
		EXE	GET	(val)	INC	DEC	MAX	MIN		INI																			
User Command																													
設定コマンド													Setting Group (Following State is "UART 0 Setting" with OSD)																
Beige = 2		X	O	O	X	X	X	X	X	#	'B'	'B'	'M'	''	'2'	CR				'B'	'B'	'M'	''	'2'	CR				
Gray = 3		X	O	O	X	X	X	X	X	#	'B'	'B'	'M'	''	'3'	CR				'B'	'B'	'M'	''	'3'	CR				
Blackboard(Green) = 4		X	O	O	X	X	X	X	X	#	'B'	'B'	'M'	''	'4'	CR				'B'	'B'	'M'	''	'4'	CR				
Default		X	O	X	X	X	X	X	O	#	'B'	'B'	'M'	''	'T'	'N'	'T'	CR		'B'	'B'	'M'	''	'0'	CR				
3D Projection	DPJ	X	O	X	X	X	X	X	X	#	'D'	'P'	'J'	''	'2'	CR				'D'	'P'	'J'	''	'0'	PARAM : 0 to 1	CR			
Off = 0		X	O	O	X	X	X	X	X	#	'D'	'P'	'J'	''	'0'	CR				'D'	'P'	'J'	''	'0'	CR				
On = 1		X	O	O	X	X	X	X	X	#	'D'	'P'	'J'	''	'1'	CR				'D'	'P'	'J'	''	'1'	CR				
Default		X	O	X	X	X	X	X	O	#	'D'	'P'	'J'	''	'T'	'N'	'T'	CR		'D'	'P'	'J'	''	'0'	CR				
3D LR Reverse	LRR	X	O	X	X	X	X	X	X	#	'L'	'R'	'R'	''	'0'	CR				'L'	'R'	'R'	''	'0'	PARAM : 0 to 1	CR			
Normal = 0		X	O	O	X	X	X	X	X	#	'L'	'R'	'R'	''	'0'	CR				'L'	'R'	'R'	''	'0'	CR				
Reverse = 1		X	O	O	X	X	X	X	X	#	'L'	'R'	'R'	''	'1'	CR				'L'	'R'	'R'	''	'1'	CR				
Default		X	O	X	X	X	X	X	O	#	'L'	'R'	'R'	''	'T'	'N'	'T'	CR		'L'	'R'	'R'	''	'0'	CR				
3D Format	TDF	X	O	X	X	X	X	X	X	#	'T'	'D'	'F'	''	'0'	CR				'T'	'D'	'F'	''	'0'	PARAM : 0 to 4	CR			
Auto = 0		X	O	O	X	X	X	X	X	#	'T'	'D'	'F'	''	'0'	CR				'T'	'D'	'F'	''	'0'	CR				
Frame sequential = 1		X	O	O	X	X	X	X	X	#	'T'	'D'	'F'	''	'1'	CR				'T'	'D'	'F'	''	'1'	CR				
Side by Side = 2		X	O	O	X	X	X	X	X	#	'T'	'D'	'F'	''	'2'	CR				'T'	'D'	'F'	''	'2'	CR				
Top and Bottom = 3		X	O	O	X	X	X	X	X	#	'T'	'D'	'F'	''	'3'	CR				'T'	'D'	'F'	''	'3'	CR				
Frame Packing = 4		X	O	O	X	X	X	X	X	#	'T'	'D'	'F'	''	'4'	CR				'T'	'D'	'F'	''	'4'	CR				
Default		X	O	X	X	X	X	X	O	#	'T'	'D'	'F'	''	'T'	'N'	'T'	CR		'T'	'D'	'F'	''	'0'	CR				
Closed Caption	CCM	X	O	X	X	X	X	X	X	#	'C'	'C'	'M'	''	'0'	CR				'C'	'C'	'M'	''	'0'	PARAM : 0 to 4	CR			
Off = 0		X	O	O	X	X	X	X	X	#	'C'	'C'	'M'	''	'0'	CR				'C'	'C'	'M'	''	'0'	CR				
CC-1 = 1		X	O	O	X	X	X	X	X	#	'C'	'C'	'M'	''	'1'	CR				'C'	'C'	'M'	''	'1'	CR				
CC-2 = 2		X	O	O	X	X	X	X	X	#	'C'	'C'	'M'	''	'2'	CR				'C'	'C'	'M'	''	'2'	CR				
CC-3 = 3		X	O	O	X	X	X	X	X	#	'C'	'C'	'M'	''	'3'	CR				'C'	'C'	'M'	''	'3'	CR				
CC-4 = 4		X	O	O	X	X	X	X	X	#	'C'	'C'	'M'	''	'4'	CR				'C'	'C'	'M'	''	'4'	CR				
Default		X	O	X	X	X	X	X	O	#	'C'	'C'	'M'	''	'T'	'N'	'T'	CR		'C'	'C'	'M'	''	'0'	CR				
Eco Mode	LPP	X	O	X	X	X	X	X	X	#	'L'	'P'	'P'	''	'0'	CR				'L'	'P'	'P'	''	'0'	PARAM : 0 to 2	CR			
On (Auto) = 0		X	O	O	X	X	X	X	X	#	'L'	'P'	'P'	''	'0'	CR				'L'	'P'	'P'	''	'0'	CR				
On (Detailed) = 1		X	O	O	X	X	X	X	X	#	'L'	'P'	'P'	''	'1'	CR				'L'	'P'	'P'	''	'1'	CR				
Off = 2		X	O	O	X	X	X	X	X	#	'L'	'P'	'P'	''	'2'	CR				'L'	'P'	'P'	''	'2'	CR				
Default		X	O	X	X	X	X	X	O	#	'L'	'P'	'P'	''	'T'	'N'	'T'	CR		'L'	'P'	'P'	''	'0'	CR				
Lamp Power	LPM	X	O	X	X	X	X	X	X	#	'L'	'P'	'M'	''	'0'	CR				'L'	'P'	'M'	''	'0'	PARAM : 0 to 4	CR			
Auto = 0		X	O	O	X	X	X	X	X	#	'L'	'P'	'M'	''	'0'	CR				'L'	'P'	'M'	''	'0'	CR				
Maximum = 1		X	O	O	X	X	X	X	X	#	'L'	'P'	'M'	''	'1'	CR				'L'	'P'	'M'	''	'1'	CR				
High = 2		X	O	O	X	X	X	X	X	#	'L'	'P'	'M'	''	'2'	CR				'L'	'P'	'M'	''	'2'	CR				
Medium = 3		X	O	O	X	X	X	X	X	#	'L'	'P'	'M'	''	'3'	CR				'L'	'P'	'M'	''	'3'	CR				
Low = 4		X	O	O	X	X	X	X	X	#	'L'	'P'	'M'	''	'4'	CR				'L'	'P'	'M'	''	'4'	CR				
Default		X	O	X	X	X	X	X	O	#	'L'	'P'	'M'	''	'T'	'N'	'T'	CR		'L'	'P'	'M'	''	'0'	CR				
Lamp Power on No Signal	NSL	X	O	X	X	X	X	X	X	#	'N'	'S'	'L'	''	'0'	CR				'N'	'S'	'L'	''	'0'	PARAM : 0 to 1	CR			
Eco = 0		X	O	O	X	X	X	X	X	#	'N'	'S'	'L'	''	'0'	CR				'N'	'S'	'L'	''	'0'	CR				
Standard = 1		X	O	O	X	X	X	X	X	#	'N'	'S'	'L'	''	'1'	CR				'N'	'S'	'L'	''	'1'	CR				
Default		X	O	X	X	X	X	X	O	#	'N'	'S'	'L'	''	'T'	'N'	'T'	CR		'N'	'S'	'L'	''	'0'	CR				
Image Eco	IEC	X	O	X	X	X	X	X	X	#	'I'	'E'	'C'	''	'0'	CR				'I'	'E'	'C'	''	'0'	PARAM : 0 to 1	CR			
Off = 0		X	O	O	X	X	X	X	X	#	'I'	'E'	'C'	''	'0'	CR				'I'	'E'	'C'	''	'0'	CR				
On = 1		X	O	O	X	X	X	X	X	#	'I'	'E'	'C'	''	'1'	CR				'I'	'E'	'C'	''	'1'	CR				
Default		X	O	X	X	X	X	X	O	#	'I'	'E'	'C'	''	'T'	'N'	'T'	CR		'I'	'E'	'C'	''	'1'	CR				
Power Off on No Signal	NPF	X	O	X	X	X	X	X	X	#	'N'	'P'	'F'	''	'0'	CR				'N'	'P'	'F'	''	'0'	PARAM : 0 to 4	CR			
Off = 0		X	O	O	X	X	X	X	X	#	'N'	'P'	'F'	''	'0'	CR				'N'	'P'	'F'	''	'0'	CR				
On(5min) = 1		X	O	O	X	X	X	X	X	#	'N'	'P'	'F'	''	'1'	CR				'N'	'P'	'F'	''	'1'	CR				
On(10min) = 2		X	O	O	X	X	X	X	X	#	'N'	'P'	'F'	''	'2'	CR				'N'	'P'	'F'	''	'2'	CR				
On(20min) = 3		X	O	O	X	X	X	X	X	#	'N'	'P'	'F'	''	'3'	CR				'N'	'P'	'F'	''	'3'	CR				
On(30min) = 4		X	O	O	X	X	X	X	X	#	'N'	'P'	'F'	''	'4'	CR				'N'	'P'	'F'	''	'4'	CR				
Default		X	O	X	X	X	X	X	O	#	'N'	'P'	'F'	''	'T'	'N'	'T'	CR		'N'	'P'	'F'	''	'3'	CR				
Power on Standby	ESM	X	O	X	X	X	X	X	X	#	'E'	'S'	'M'	''	'0'	CR				'E'	'S'	'M'	''	'0'	PARAM : 0 to 1	CR			
Eco		X	O	O	X	X	X	X	X	#	'E'	'S'	'M'	''	'0'	CR				'E'	'S'	'M'	''	'0'	CR				
Quick On		X	O	O	X	X	X	X	X	#	'E'	'S'	'M'	''	'1'	CR				'E'	'S'	'M'	''	'1'	CR				
Default		X	O	X	X	X	X	X	O	#	'E'	'S'	'M'	''	'T'	'N'	'T'	CR		'E'	'S'	'M'	''	'0'	CR				
Network Settings on Standby	SBN	X	O	X	X	X	X	X	X	#	'S'	'B'	'N'	''	'0'	CR				'S'	'B'	'N'	''	'0'	PARAM : 0 to 2	CR			
Wired/Wireless LAN		X	O	O	X	X	X	X	X	#	'S'	'B'	'N'	''	'0'	CR				'S'	'B'	'N'	''	'2'	CR				
Wired Lan		X	O	O	X	X	X	X	X	#	'S'	'B'	'N'	''	'1'	CR				'S'	'B'	'N'	''	'1'	CR				
Do not Use		X	O	O	X	X	X	X	X	#	'S'	'B'	'N'	''	'2'	CR				'S'	'B'	'N'	''	'0'	CR				
Default		X	O	X	X	X	X	X	O	#	'S'	'B'	'N'	''	'T'	'N'	'T'	CR		'S'	'B'	'N'	''	'1'	CR				
Auto Input Search	AIS	X	O	X	X	X	X	X	X	#	'A'	'I'	'S'	''	'0'	CR				'A'	'I'	'S'	''	'0'	PARAM : 0 to 1	CR			
Off = 0		X	O	O	X	X	X	X	X	#	'A'	'I'	'S'	''	'0'	CR				'A'	'I'	'S'	''	'0'	CR				
On = 1		X	O	O	X	X	X	X	X	#	'A'	'I'	'S'	''	'1'	CR				'A'	'I'	'S'	''	'1'	CR				
Default		X	O	X	X	X	X	X	O	#	'A'	'I'	'S'	''	'T'	'N'	'T'	CR		'A'	'I'	'S'	''	'1'	CR				
Interactive Mode	PBS	X	O	X	X	X	X	X	X	#	'P'	'B'	'S'	''	'0'	CR				'P'	'B'	'S'	''	'0'	PARAM : 0 to 1	CR			
Off = 0		X	O	O	X	X	X	X	X	#	'P'	'B'	'S'	''	'0'	CR				'P'	'B'	'S'	''	'0'	CR				
On = 1		X	O	O	X	X	X	X	X	#	'P'	'B'	'S'	''	'1'	CR				'P'	'B'	'S'	''	'1'	CR				
Default		X	O	X	X	X	X	X	O	#	'P'	'B'	'S'	''	'T'	'N'	'T'	CR		'P'	'B'	'S'	''	'0'	CR				
Computer 2 Terminal	DS2	X	O	X	X	X	X	X																					

Function	Command Name	SET								Command										Response						
		EXE	GET	(val)	INC	DEC	MAX	MIN	INI	User Command										CR	CR					
										'#'	'D'	'S'	'2'	'1'	'N'	'T'	'CR'	'#'	'D'			'S'	'2'	'1'	'CR'	
設定コマンド																										
Setting Group (Following State is "UART 0 Setting" with OSD)																										
Output = 1		X	O	O	X	X	X	X	X	#'	D'	S'	'2'	'1'				#'	D'	S'	'2'	'1'	CR			
Default		X	O	X	X	X	X	X	O	#'	D'	S'	'2'	'1'	'N'	'T'	CR	#'	D'	S'	'2'	'1'	CR			
Beep	BEP	X	O	X	X	X	X	X	X	#'	B'	E'	'P'				#'	B'	E'	'P'			PARAM : 0 to 1	CR		
Off = 0		X	O	O	X	X	X	X	X	#'	B'	E'	'P'	'0'			#'	B'	E'	'P'	'0'		CR			
On = 1		X	O	O	X	X	X	X	X	#'	B'	E'	'P'	'1'			#'	B'	E'	'P'	'1'		CR			
Default		X	O	X	X	X	X	X	O	#'	B'	E'	'P'	'1'	'N'	'T'	CR	#'	B'	E'	'P'	'1'		CR		
Background	BGC	X	O	O	X	X	X	X	X	#'	B'	'G'	'C'				#'	B'	'G'	'C'			PARAM : 0 to 2	CR		
Logo = 0		X	O	O	X	X	X	X	X	#'	B'	'G'	'C'	'0'			#'	B'	'G'	'C'	'0'		CR			
Blue = 1		X	O	O	X	X	X	X	X	#'	B'	'G'	'C'	'1'			#'	B'	'G'	'C'	'1'		CR			
None = 2		X	O	O	X	X	X	X	X	#'	B'	'G'	'C'	'2'			#'	B'	'G'	'C'	'2'		CR			
Default		X	O	X	X	X	X	X	O	#'	B'	'G'	'C'	'1'	'N'	'T'	CR	#'	B'	'G'	'C'	'0'		CR		
Display Guidance	ICN	X	O	X	X	X	X	X	X	#'	'T'	'C'	'N'				#'	'T'	'C'	'N'			PARAM : 0 to 1	CR		
Off = 0		X	O	O	X	X	X	X	X	#'	'T'	'C'	'N'	'0'			#'	'T'	'C'	'N'	'0'		CR			
On = 1		X	O	O	X	X	X	X	X	#'	'T'	'C'	'N'	'1'			#'	'T'	'C'	'N'	'1'		CR			
Default		X	O	X	X	X	X	X	O	#'	'T'	'C'	'N'	'1'	'N'	'T'	CR	#'	'T'	'C'	'N'	'1'		CR		
Auto Focus (PJ X3340N/WX3340N only)	AFN	X	O	X	X	X	X	X	X	#'	'A'	'F'	'N'				#'	'A'	'F'	'N'			PARAM : 0 to 1	CR		
Off = 0		X	O	O	X	X	X	X	X	#'	'A'	'F'	'N'	'0'			#'	'A'	'F'	'N'	'0'		CR			
On = 1		X	O	O	X	X	X	X	X	#'	'A'	'F'	'N'	'1'			#'	'A'	'F'	'N'	'1'		CR			
Default		X	O	X	X	X	X	X	O	#'	'A'	'F'	'N'	'1'	'N'	'T'	CR	#'	'A'	'F'	'N'	'1'		CR		
Language	LNG	X	O	X	X	X	X	X	X	#'	'L'	'N'	'G'				#'	'L'	'N'	'G'			PARAM : 0 to 24	CR		
English = 0		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'0'			#'	'L'	'N'	'G'	'0'		CR			
Japanese = 1		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'1'			#'	'L'	'N'	'G'	'1'		CR			
Spanish = 2		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'2'			#'	'L'	'N'	'G'	'2'		CR			
Russian = 3		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'3'			#'	'L'	'N'	'G'	'3'		CR			
French = 4		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'4'			#'	'L'	'N'	'G'	'4'		CR			
Portuguese = 5		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'5'			#'	'L'	'N'	'G'	'5'		CR			
German = 6		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'6'			#'	'L'	'N'	'G'	'6'		CR			
Italian = 7		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'7'			#'	'L'	'N'	'G'	'7'		CR			
Dutch = 8		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'8'			#'	'L'	'N'	'G'	'8'		CR			
Polish = 9		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'9'			#'	'L'	'N'	'G'	'9'		CR			
Czech = 10		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'10'		CR	#'	'L'	'N'	'G'	'10'		CR			
Swedish = 11		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'11'		CR	#'	'L'	'N'	'G'	'11'		CR			
Finnish = 12		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'12'		CR	#'	'L'	'N'	'G'	'12'		CR			
Hungarian = 13		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'13'		CR	#'	'L'	'N'	'G'	'13'		CR			
Norwegian = 14		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'14'		CR	#'	'L'	'N'	'G'	'14'		CR			
Danish = 15		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'15'		CR	#'	'L'	'N'	'G'	'15'		CR			
Romanian = 16		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'16'		CR	#'	'L'	'N'	'G'	'16'		CR			
Greek = 17		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'17'		CR	#'	'L'	'N'	'G'	'17'		CR			
Turkish = 18		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'18'		CR	#'	'L'	'N'	'G'	'18'		CR			
Arabic = 19		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'19'		CR	#'	'L'	'N'	'G'	'19'		CR			
Thai = 20		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'20'		CR	#'	'L'	'N'	'G'	'20'		CR			
Indonesia = 21		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'21'		CR	#'	'L'	'N'	'G'	'21'		CR			
Language Chinese T = 2322		X	O	O	X	X	X	X	X	#'	'L'	'N'	'G'	'23'		CR	#'	'L'	'N'	'G'	'23'		CR			
Default		X	O	X	X	X	X	X	O	#'	'L'	'N'	'G'	'1'	'N'	'T'	CR	#'	'L'	'N'	'G'	'0'		CR		
Current Time	CTM	X	O	X	X	X	X	X	X	#'	'C'	'T'	'M'				#'	'C'	'T'	'M'			*Note U3	CR		
	CT0	X	O	O	X	X	X	X	X	#'	'C'	'T'	'0'			*Note U2-0	CR	#'	'C'	'T'	'0'			*Note U3-0	CR	
	CT1	X	O	O	X	X	X	X	X	#'	'C'	'T'	'1'			*Note U2-1	CR	#'	'C'	'T'	'1'			*Note U3-1	CR	
Time Zone	TZM	X	O	X	X	X	X	X	X	#'	'T'	'Z'	'M'				#'	'T'	'Z'	'M'			*Note U9	CR		
		X	O	O	X	X	X	X	X	#'	'T'	'Z'	'M'			*Note U8	CR	#'	'T'	'Z'	'M'			*Note U9	CR	
Power Timer	PTM	X	O	X	X	X	X	X	X	#'	'P'	'T'	'M'				#'	'P'	'T'	'M'			PARAM : 0 to 1	CR		
Off = 0		X	O	O	X	X	X	X	X	#'	'P'	'T'	'M'	'0'			#'	'P'	'T'	'M'	'0'		CR			
On = 1		X	O	O	X	X	X	X	X	#'	'P'	'T'	'M'	'1'			#'	'P'	'T'	'M'	'1'		CR			
Default		X	O	X	X	X	X	X	O	#'	'P'	'T'	'M'	'1'	'N'	'T'	CR	#'	'P'	'T'	'M'	'0'		CR		
Projection Day	PJD	X	O	X	X	X	X	X	X	#'	'P'	'J'	'D'				#'	'P'	'J'	'D'			*Note U5	CR		
		X	O	O	X	X	X	X	X	#'	'P'	'J'	'D'			*Note U4	CR	#'	'P'	'J'	'D'			*Note U5	CR	
Projection Time	PJT	X	O	X	X	X	X	X	X	#'	'P'	'J'	'T'				#'	'P'	'J'	'T'			*Note U7	CR		
		X	O	O	X	X	X	X	X	#'	'P'	'J'	'T'			*Note U6	CR	#'	'P'	'J'	'T'			*Note U7	CR	
Projection Mode	PJM	X	O	X	X	X	X	X	X	#'	'P'	'J'	'M'				#'	'P'	'J'	'M'			PARAM : 0 to 3	CR		
Standard = 0		X	O	O	X	X	X	X	X	#'	'P'	'J'	'M'	'0'			#'	'P'	'J'	'M'	'0'		CR			
Rear = 1		X	O	O	X	X	X	X	X	#'	'P'	'J'	'M'	'1'			#'	'P'	'J'	'M'	'1'		CR			
Ceiling = 2		X	O	O	X	X	X	X	X	#'	'P'	'J'	'M'	'2'			#'	'P'	'J'	'M'	'2'		CR			
Rear Ceiling = 3		X	O	O	X	X	X	X	X	#'	'P'	'J'	'M'	'3'			#'	'P'	'J'	'M'	'3'		CR			
Default		X	O	X	X	X	X	X	O	#'	'P'	'J'	'M'	'1'	'N'	'T'	CR	#'	'P'	'J'	'M'	'0'		CR		
Remote Control ID	RCD	X	O	X	X	X	X	X	X	#'	'R'	'C'	'D'				#'	'R'	'C'	'D'			PARAM : 0 to 3	CR		
ID 1 = 0		X	O	O	X	X	X	X	X	#'	'R'	'C'	'D'	'0'			#'	'R'	'C'	'D'	'0'		CR			
ID 2 = 1		X	O	O	X	X	X	X	X	#'	'R'	'C'	'D'	'1'			#'	'R'	'C'	'D'	'1'		CR			
ID 3 = 2		X	O	O	X	X	X	X	X	#'	'R'	'C'	'D'	'2'			#'	'R'	'C'	'D'	'2'		CR			
ID 4 = 3		X	O	O	X	X	X	X	X	#'	'R'	'C'	'D'	'3'			#'	'R'	'C'	'D'	'3'		CR			
Default		X	O	X	X	X	X	X	O	#'	'R'	'C'	'D'	'1'	'N'	'T'	CR	#'	'R'	'C'	'D'	'0'		CR		
Direct Power On	APM	X	O	X	X	X	X	X	X	#'	'A'	'P'	'M'				#'	'A'	'P'	'M'			PARAM : 0 to 1	CR		
Off = 0		X	O	O	X	X	X	X	X	#'	'A'	'P'	'M'	'0'			#'	'A'	'P'	'M'	'0'		CR			
On = 1		X	O	O	X	X	X	X	X	#'	'A'	'P'	'M'	'1'			#'	'A'	'P'	'M'	'1'		CR			
Default		X	O	X	X	X	X	X	O	#'	'A'	'P'	'M'	'1'	'N'	'T'	CR	#'	'A'	'P'	'M'	'0'		CR		

Function	Command Name	EXE	GET	SET						Command	Response		
				(val)	INC	DEC	MAX	MIN	INI				
設定コマンド													
Setting Group (Following State is "UART 0 Setting" with OSD)													
High Altitude Mode	FMD	X	O	X	X	X	X	X	X	# F M D CR	= F M D	PARAM : 0 to 1	CR
Off = 0		X	O	O	X	X	X	X	X	# F M D '0' CR	= F M D '0'	CR	
On = 1		X	O	O	X	X	X	X	X	# F M D '1' CR	= F M D '1'	CR	
Default		X	O	X	X	X	X	X	O	# F M D 'I' N 'I' CR	= F M D 'I' N 'I'	CR	
Key Lock	KLC	X	O	X	X	X	X	X	X	# K L C CR	= K L C	PARAM : 0 to 1	CR
Off = 0		X	O	O	X	X	X	X	X	# K L C '0' CR	= K L C '0'	CR	
On = 1		X	O	O	X	X	X	X	X	# K L C '1' CR	= K L C '1'	CR	
Default		X	O	X	X	X	X	X	O	# K L C 'I' N 'I' CR	= K L C 'I' N 'I'	CR	
Toggle Function Group (Following State is Each Execution State)													
Mute	MUT	X	O	X	X	X	X	X	X	# M U T CR	= M U T	PARAM : 0 to 1	CR
Mute On = 1		X	O	O	X	X	X	X	X	# M U T '1' CR	= M U T '1'	CR	
Mute Off = 0		X	O	O	X	X	X	X	X	# M U T '0' CR	= M U T '0'	CR	
Freeze	FRZ	X	O	X	X	X	X	X	X	# F R Z CR	= F R Z	PARAM : 0 to 1	CR
Freeze On = 1		X	O	O	X	X	X	X	X	# F R Z '1' CR	= F R Z '1'	CR	
Freeze Off = 0		X	O	O	X	X	X	X	X	# F R Z '0' CR	= F R Z '0'	CR	
Resize	RSZ	X	O	X	X	X	X	X	X	# R S Z CR	= R S Z	PARAM : 0 to 1	CR
Resize State = On (Get Status Only)		X	O	X	X	X	X	X	X	# R S Z '1' CR	= R S Z '1'	CR	
Resize State = Off (Get Status Only)		X	O	X	X	X	X	X	X	# R S Z '0' CR	= R S Z '0'	CR	
Resize Up = INC		X	O	X	O	X	X	X	X	# R S Z 'I' N 'C' CR	= R S Z 'I' N 'C'	PARAM : 0 to 1	CR
Resize Down = DEC		X	O	X	X	O	X	X	X	# R S Z 'D' E 'C' CR	= R S Z 'D' E 'C'	PARAM : 0 to 1	CR
Resize Off (in RESIZE state) = INI		X	O	X	X	X	X	X	O	# R S Z 'I' N 'I' CR	= R S Z 'I' N 'I'	CR	
Resize Move Up = 1	PO1	O	X	X	X	X	X	X	X	# P O '1' CR	= P O '1'	'S' 'C' ID	CR
Resize Move Down = 2	PO2	O	X	X	X	X	X	X	X	# P O '2' CR	= P O '2'	'S' 'C' ID	CR
Resize Move Left = 3	PO3	O	X	X	X	X	X	X	X	# P O '3' CR	= P O '3'	'S' 'C' ID	CR
Resize Move Right = 4	PO4	O	X	X	X	X	X	X	X	# P O '4' CR	= P O '4'	'S' 'C' ID	CR
Display Position													
Display Position Up = 1	DP1	O	X	X	X	X	X	X	X	# D P '1' CR	= D P '1'	'S' 'C' ID	CR
Display Position Down = 2	DP2	O	X	X	X	X	X	X	X	# D P '2' CR	= D P '2'	'S' 'C' ID	CR
Display Position Left = 3	DP3	O	X	X	X	X	X	X	X	# D P '3' CR	= D P '3'	'S' 'C' ID	CR
Display Position Right = 4	DP4	O	X	X	X	X	X	X	X	# D P '4' CR	= D P '4'	'S' 'C' ID	CR
Special Group (Following State is "Input Channel")													
Input Source	INP	X	O	X	X	X	X	X	X	# I N P CR	= I N P	PARAM : 0 to 13	CR
RGB 1 = 1		X	O	O	X	X	X	X	X	# I N P '1' CR	= I N P '1'	CR	
YPbPr 1 = 2		X	O	O	X	X	X	X	X	# I N P '2' CR	= I N P '2'	CR	
RGB 2 = 3		X	O	O	X	X	X	X	X	# I N P '3' CR	= I N P '3'	CR	
(Reserved)													
HDMI = 5		X	O	O	X	X	X	X	X	# I N P '5' CR	= I N P '5'	CR	
(Reserved)													
(Reserved)													
(Reserved)													
Video = 9		X	O	O	X	X	X	X	X	# I N P '9' CR	= I N P '9'	CR	
(Reserved)													
(Reserved)													
Network = 12		X	O	O	X	X	X	X	X	# I N P '12' CR	= I N P '12'	CR	
USB = 13		X	O	O	X	X	X	X	X	# I N P '13' CR	= I N P '13'	CR	
Server = 14		X	O	O	X	X	X	X	X	# I N P '14' CR	= I N P '14'	CR	
Miracast = 15		X	O	O	X	X	X	X	X	# I N P '15' CR	= I N P '15'	CR	
Thumbnail Setting Group													
Auto Demo	OAD	X	O	X	X	X	X	X	X	# O A D CR	= O A D	PARAM : 0 to 1	CR
Off = 0		X	O	O	X	X	X	X	X	# O A D '0' CR	= O A D '0'	CR	
On = 1		X	O	O	X	X	X	X	X	# O A D '1' CR	= O A D '1'	CR	
Set Interval Time	NIT	X	O	O	X	X	X	X	X	# N I T	PARAM : 5 to 999	CR	
Get Interval Time	NVQ	X	O	X	X	X	X	X	X	# N V Q	PARAM : 5 to 999		
Initialize Interval Time	NVI	X	O	X	X	X	X	X	O	# N V I		CR	CR NU
Repeat	ORP	X	O	X	X	X	X	X	X	# O R P CR	= O R P	PARAM : 0 to 1	CR
Off = 0		X	O	O	X	X	X	X	X	# O R P '0' CR	= O R P '0'	CR	
On = 1		X	O	O	X	X	X	X	X	# O R P '1' CR	= O R P '1'	CR	
Display Effect	ODE	X	O	X	X	X	X	X	X	# O D E CR	= O D E	PARAM : 0 to 9	CR
None = 0		X	O	O	X	X	X	X	X	# O D E '0' CR	= O D E '0'	CR	
Push = 1		X	O	O	X	X	X	X	X	# O D E '1' CR	= O D E '1'	CR	
Wipe = 2		X	O	O	X	X	X	X	X	# O D E '2' CR	= O D E '2'	CR	
Fade = 3		X	O	O	X	X	X	X	X	# O D E '3' CR	= O D E '3'	CR	
Default		X	O	X	X	X	X	X	O	# O D E 'I' N 'I' CR	= O D E 'I' N 'I'	CR	
情報取得コマンド													
Projector Status Group													
Projector Power State	SPS	X	O	X	X	X	X	X	X	# S P S CR	= S P S	PARAM : 0 to 7	
Input Channel Information	SIC	X	O	X	X	X	X	X	X	# S I C CR	= S I C	PARAM : 0 to 255	CR
Input Source Information	SIS	X	O	X	X	X	X	X	X	# S I S CR	= S I S	PARAM : 0 to 2555	CR
Signal Mode Information	SSG	X	O	X	X	X	X	X	X	# S S G CR	= S S G	PARAM : 0 to 65535	CR
Detected Error Type	SER	X	O	X	X	X	X	X	X	# S E R CR	= S E R	PARAM : 0 to 255	CR
User Lamp Time	SLT	X	O	X	X	X	X	X	X	# S L T CR	= S L T	*Note U1	CR
Filter Time	SPT	X	O	X	X	X	X	X	X	# S P T CR	= S P T	*Note U1	CR
Total Time	STT	X	O	X	X	X	X	X	X	# S T T CR	= S T T	*Note U1	CR
Fan 1 Speed (RPM)	SF1	X	O	X	X	X	X	X	X	# S F 1 CR	= S F 1	PARAM : 0 to 65535	CR

Function	Command Name	EXE	GET	SET						Command	Response
				(val)	INC	DEC	MAX	MIN	INI		
情報取得コマンド											
Projector Status Group											
Fan 2 Speed (RPM)	SF2	X	O	X	X	X	X	X	X	# 'S' 'F' '2' CR	PARAM : 0 to 65535 CR
Fan 3 Speed (RPM)	SF3	X	O	X	X	X	X	X	X	# 'S' 'F' '3' CR	PARAM : 0 to 65535 CR
Fan 4 Speed (RPM)	SF4	X	O	X	X	X	X	X	X	# 'S' 'F' '4' CR	PARAM : 0 to 65535 CR
Temperature 1 (Degree C)	ST1	X	O	X	X	X	X	X	X	# 'S' 'T' '1' CR	PARAM : -128 to 127 CR
Temperature 2 (Degree C)	ST2	X	O	X	X	X	X	X	X	# 'S' 'T' '2' CR	PARAM : -128 to 127 CR
Serial Number	SSN	X	O	X	X	X	X	X	X	# 'S' 'S' 'N' CR	16 Byte ASCII Code CR
Software Version	SSV	X	O	X	X	X	X	X	X	# 'S' 'S' 'V' CR	4Byte ASCII Code CR
調整コマンド											
Adjustment Group (Following State is "UART 0 Adjustment" with OSD)											
Volume	VVL	X	O	O	O	O	O	O	O	# 'V' 'V' 'L' CR	PARAM : 0 to 50 CR
V Keystone	PKS	X	O	O	O	O	O	O	O	# 'P' 'K' 'S' CR	PARAM : -40 to +40 CR
H Keystone	HKS	X	O	O	O	O	O	O	O	# 'H' 'K' 'S' CR	PARAM : -30 to +30 CR
Zoom (0-20% reduction)	ZOM	X	O	O	O	O	O	O	O	# 'Z' 'O' 'M' CR	PARAM : 0 to 20 CR
Contrast	VCN	X	O	O	O	O	O	O	O	# 'V' 'C' 'N' CR	PARAM : -16 to +16 CR
Brightness	VBR	X	O	O	O	O	O	O	O	# 'V' 'B' 'R' CR	PARAM : -16 to +16 CR
Sharpness	VSH	X	O	O	O	O	O	O	O	# 'V' 'S' 'H' CR	PARAM : -8 to +8 CR
Red Level	VLR	X	O	O	O	O	O	O	O	# 'V' 'L' 'R' CR	PARAM : -16 to +16 CR
Green Level	VLG	X	O	O	O	O	O	O	O	# 'V' 'L' 'G' CR	PARAM : -16 to +16 CR
Blue Level	VLB	X	O	O	O	O	O	O	O	# 'V' 'L' 'B' CR	PARAM : -16 to +16 CR
Color Saturation	VCL	X	O	O	O	O	O	O	O	# 'V' 'C' 'L' CR	PARAM : -16 to +16 CR
Tint	VTN	X	O	O	O	O	O	O	O	# 'V' 'T' 'N' CR	PARAM : -16 to +16 CR
Phase	PPH	X	O	O	O	O	O	O	O	# 'P' 'P' 'H' CR	PARAM : 0 to 31 CR
Frequency	PCK	X	O	O	O	O	O	O	O	# 'P' 'C' 'K' CR	PARAM : -64 to +64 CR
H Position	PHP	X	O	O	O	O	O	O	O	# 'P' 'H' 'P' CR	PARAM : -64 to +64 CR
V Position	PVP	X	O	O	O	O	O	O	O	# 'P' 'V' 'P' CR	PARAM : -32 to +32 CR
Clamp 1 (Position)	PC1	X	O	O	O	O	O	O	O	# 'P' 'C' '1' CR	PARAM : 0 to 255 CR
Clamp 2 (Width)	PC2	X	O	O	O	O	O	O	O	# 'P' 'C' '2' CR	PARAM : 0 to 255 CR

Note : 115200bps / No Parity / Data Length 8-Bit / Stop Bit Length 1-Bit

Note : Invalid Command Response

'E' 'R' 'ID' CR or No Return Data

Note : Execution Failure Response

'E' Command 'E' 'R' 'ID' CR

Note U1 : Timer Parameter Response

'E' Command 'H' Hours : 0 to 65535 'M' Min. : 0 to 59 'S' Sec. : 0 to 59 'S' CR

Note U2-0 : Current Time Parameter

'C' 'T' '0' Year : 0 to 35 SPACE Month : 1 to 12 SPACE Day : 1 to 31 CR

Note U2-1 : Current Time Parameter

'C' 'T' '1' Hours : 0 to 23 SPACE Min. : 0 to 59 CR

Note U3 : Current Time Parameter Response

'E' 'C' 'T' 'M' Year : 0 to 35 SPACE Month : 1 to 12 SPACE Day : 1 to 31 SPACE Hours : 0 to 23 SPACE Min. : 0 to 59 CR

Note U3-0 : Current Time Parameter Response

'E' 'C' 'T' '0' Year : 0 to 35 SPACE Month : 1 to 12 SPACE Day : 1 to 31 CR

Note U3-1 : Current Time Parameter Response

'E' 'C' 'T' '1' Hours : 0 to 23 SPACE Min. : 0 to 59 CR

Note U4 : Power Timer Day Setting Parameter

'P' 'J' 'D' Day : 0 to 127 CR

*Day = bit0 : SUN, bit1 : MON, bit2 : TUE, bit3 : WED, ..., bit6 : SAT

Note U5 : Power Timer Day Setting Parameter Response

'E' 'P' 'J' 'D' Day : 0 to 127 CR

*Day = bit0 : SUN, bit1 : MON, bit2 : TUE, bit3 : WED, ..., bit6 : SAT

Note U6 : Power Timer Time Setting Parameter

'P' 'J' 'T' Start Time : Hours SPACE Start Time : Min. SPACE End Time : Hours SPACE End Time : Min. CR
(0 to 23, or 255) (0 to 59, or 255) (0 to 23) (0 to 59)

Note U7 : Power Timer Time Setting Parameter Response

'E' 'P' 'J' 'T' Start Time : Hours Start Time : Min. End Time : Hours End Time : Min. CR
(0 to 23, or 255) (0 to 59, or 255) (0 to 23 or 255) (0 to 59 or 255)

Note U8 : Time Zone Parameter

'T' 'Z' 'M' Plus/Minus : 0 to 1 SPACE Hours : 0 to 14 SPACE Minutes : 0 or 30 CR

* Plus/Minus = 0 : Minus, 1: Plus

Note U9 : Time Zone Parameter Response

'E' 'T' 'Z' 'M' Plus/Minus : 0 to 1 SPACE Hours : 0 to 14 Minutes : 0 or 30 CR

* Plus/Minus = 0 : Minus, 1: Plus

