RICOH

DLP®プロジェクター
RICOH PJ WX4130N/WX4130

シリアルコマンド資料

目次

■ コマンドの構成 …… 1
■ コマンドリスト …… 2

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'	CR

PARAM: None

Response

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

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

Example

Turn on the projector (Success)

'#'	'P'	'O'	'N'	CR

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

<Adjustment command>

Get

'#'	'X'	'X'	'X'	CR

PARAM: None

'='	'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.

Example

Get the volume (25)

'#'	'V'	'V'	'L'	CR

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

Set

'#'	'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

'='	'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.

Example

Set the Contrast (−3)

'#'	'V'	'C'	'N'	':'	'−'	'3'	CR

'='	'V'	'C'	'N'	':'	'−'	'3'	CR

Increment the Brightness (+3 -> +4)

'#'	'V'	'B'	'R'	':'	'I'	'N'	'C'	CR

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

Initialize the V Keystone (0)

'#'	'P'	'K'	'S'	':'	'I'	'N'	'I'	CR

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

<Setting Command>

Get

'#'	'X'	'X'	'X'	CR

PARAM: None

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

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

Example

Get the language (English = 0)

'#'	'L'	'N'	'G'	CR

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

Set

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

PARAM:

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

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

PARAM: The value after setting

Example

Set the language (Japanese = 10)

'#'	'L'	'N'	'G'	':'	'1'	'0'	CR

'='	'L'	'N'	'G'	':'	'1'	'0'	CR

Initialize the projection mode (standard = 0)

'#'	'P'	'J'	'M'	':'	'I'	'N'	'I'	CR

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

●Response of Illegal command

<Unsupported command>

'='	'E'	'R'	ID	CR

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

Example

Unknown Command

'#'	'A'	'B'	'C'	CR

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

Unknown Parameter

'#'	'P'	'J'	'M'	':'	'X'	'Y'	'Z'	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.

RICOH Projector PJ WX4130 Series Serial Command List

Function	Command Name	EXE	GET	SET (val)	SET INC	SET DEC	SET MAX	SET MIN	SET INI	Command	Response
User Command											
Adjustment Group (Following State is "UART 0 Adjustment" with OSD)											
Volume	VVL	X	o	o	o	o	o	o	o	'#' 'V' 'V' 'L' ':' PARAM : 0 to 50 CR	'=' 'V' 'V' 'L' ':' PARAM : 0 to 50 CR
Contrast	VCN	X	o	o	o	o	o	o	o	'#' 'V' 'C' 'N' ':' PARAM : -16 to +16 CR	'=' 'V' 'C' 'N' ':' PARAM : -16 to +16 CR
Brightness	VBR	X	o	o	o	o	o	o	o	'#' 'V' 'B' 'R' ':' PARAM : -16 to +16 CR	'=' 'V' 'B' 'R' ':' PARAM : -16 to +16 CR
Color	VCL	X	o	o	o	o	o	o	o	'#' 'V' 'C' 'L' ':' PARAM : -16 to +16 CR	'=' 'V' 'C' 'L' ':' PARAM : -16 to +16 CR
Tint	VTN	X	o	o	o	o	o	o	o	'#' 'V' 'T' 'N' ':' PARAM : -16 to +16 CR	'=' 'V' 'T' 'N' ':' PARAM : -16 to +16 CR
Sharpness	VSH	X	o	o	o	o	o	o	o	'#' 'V' 'S' 'H' ':' PARAM : -8 to +8 CR	'=' 'V' 'S' 'H' ':' PARAM : -8 to +8 CR
Red Level	VLR	X	o	o	o	o	o	o	o	'#' 'V' 'L' 'R' ':' PARAM : -16 to +16 CR	'=' 'V' 'L' 'R' ':' PARAM : -16 to +16 CR
Green Level	VLG	X	o	o	o	o	o	o	o	'#' 'V' 'L' 'G' ':' PARAM : -16 to +16 CR	'=' 'V' 'L' 'G' ':' PARAM : -16 to +16 CR
Blue Level	VLB	X	o	o	o	o	o	o	o	'#' 'V' 'L' 'B' ':' PARAM : -16 to +16 CR	'=' 'V' 'L' 'B' ':' PARAM : -16 to +16 CR
V Keystone	PKS	X	o	o	o	o	o	o	o	'#' 'P' 'K' 'S' ':' PARAM : -32 to +32 CR	'=' 'P' 'K' 'S' ':' PARAM : -32 to +32 CR
Phase	PPH	X	o	o	o	o	o	o	o	'#' 'P' 'P' 'H' ':' PARAM : 0 to 31 CR	'=' 'P' 'P' 'H' ':' PARAM : 0 to 31 CR
Frequency	PCK	X	o	o	o	o	o	o	o	'#' 'P' 'C' 'K' ':' PARAM : -64 to +64 CR	'=' 'P' 'C' 'K' ':' PARAM : -64 to +64 CR
H Position	PHP	X	o	o	o	o	o	o	o	'#' 'P' 'H' 'P' ':' PARAM : -64 to +64 CR	'=' 'P' 'H' 'P' ':' PARAM : -64 to +64 CR
V Position	PVP	X	o	o	o	o	o	o	o	'#' 'P' 'V' 'P' ':' PARAM : -32 to +32 CR	'=' 'P' 'V' 'P' ':' PARAM : -32 to +32 CR
Clamp 1 (Position)	PC1	X	o	o	o	o	o	o	o	'#' 'P' 'C' '1' ':' PARAM : 0 to 255 CR	'=' 'P' 'C' '1' ':' PARAM : 0 to 255 CR
Clamp 2 (Width)	PC2	X	o	o	o	o	o	o	o	'#' 'P' 'C' '2' ':' PARAM : 0 to 255 CR	'=' 'P' 'C' '2' ':' PARAM : 0 to 255 CR
Setting Group (Following State is "UART 0 Setting" with OSD)											
Noise Reduction	NRE	X	o	o	X	X	X	X	o	'#' 'N' 'R' 'E' ':' PARAM : 0 to 1 CR	'=' 'N' 'R' 'E' ':' PARAM : 0 to 1 CR
Noise Reduction Off = 0										'#' 'N' 'R' 'E' ':' '0' CR	'=' 'N' 'R' 'E' ':' '0' CR
Noise Reduction On = 1										'#' 'N' 'R' 'E' ':' '1' CR	'=' 'N' 'R' 'E' ':' '1' CR
Picture Mode	PIC	X	o	o	X	X	X	X	o	'#' 'P' 'I' 'C' ':' PARAM : 0 to 2 CR	'=' 'P' 'I' 'C' ':' PARAM : 0 to 2 CR
PictureMode 1(Bright) = 0										'#' 'P' 'I' 'C' ':' '0' CR	'=' 'P' 'I' 'C' ':' '0' CR
PictureMode 2(Standard) = 1										'#' 'P' 'I' 'C' ':' '1' CR	'=' 'P' 'I' 'C' ':' '1' CR
PictureMode 3(Natural) = 2										'#' 'P' 'I' 'C' ':' '2' CR	'=' 'P' 'I' 'C' ':' '2' CR
RGB Input Range	RRI	X	o	o	X	X	X	X	o	'#' 'R' 'R' 'I' ':' PARAM : 0 to 1 CR	'=' 'R' 'R' 'I' ':' PARAM : 0 to 1 CR
Statndard = 0										'#' 'R' 'R' 'I' ':' '0' CR	'=' 'R' 'R' 'I' ':' '0' CR
Full = 1										'#' 'R' 'R' 'I' ':' '1' CR	'=' 'R' 'R' 'I' ':' '1' CR
Equalizer	EQZ	X	o	o	X	X	X	X	o	'#' 'E' 'Q' 'Z' ':' PARAM : 0 to 1 CR	'=' 'E' 'Q' 'Z' ':' PARAM : 0 to 1 CR
Low = 0										'#' 'E' 'Q' 'Z' ':' '0' CR	'=' 'E' 'Q' 'Z' ':' '0' CR
High = 1										'#' 'E' 'Q' 'Z' ':' '1' CR	'=' 'E' 'Q' 'Z' ':' '1' CR
Screen Size	SCS	X	o	o	X	X	X	X	o	'#' 'S' 'C' 'S' ':' PARAM : 0 to 4 CR	'=' 'S' 'C' 'S' ':' PARAM : 0 to 4 CR
Screen Size(Normal) = 0										'#' 'S' 'C' 'S' ':' '0' CR	'=' 'S' 'C' 'S' ':' '0' CR
Screen Size(16:9) = 1										'#' 'S' 'C' 'S' ':' '1' CR	'=' 'S' 'C' 'S' ':' '1' CR
Screen Size(Full) = 2										'#' 'S' 'C' 'S' ':' '2' CR	'=' 'S' 'C' 'S' ':' '2' CR
Screen Size(Native) = 3										'#' 'S' 'C' 'S' ':' '3' CR	'=' 'S' 'C' 'S' ':' '3' CR
Screen Size(Zoom) = 4										'#' 'S' 'C' 'S' ':' '4' CR	'=' 'S' 'C' 'S' ':' '4' CR
Language	LNG	X	o	o	X	X	X	X	X	'#' 'L' 'N' 'G' ':' PARAM : 0 to 24 CR	'=' 'L' 'N' 'G' ':' PARAM : 0 to 24 CR
English = 0										'#' 'L' 'N' 'G' ':' '0' CR	'=' 'L' 'N' 'G' ':' '0' CR
Japanese = 1										'#' 'L' 'N' 'G' ':' '1' CR	'=' 'L' 'N' 'G' ':' '1' CR
Spanish = 2										'#' 'L' 'N' 'G' ':' '2' CR	'=' 'L' 'N' 'G' ':' '2' CR
Russian = 3										'#' 'L' 'N' 'G' ':' '3' CR	'=' 'L' 'N' 'G' ':' '3' CR
French = 4										'#' 'L' 'N' 'G' ':' '4' CR	'=' 'L' 'N' 'G' ':' '4' CR
Portuguese = 5										'#' 'L' 'N' 'G' ':' '5' CR	'=' 'L' 'N' 'G' ':' '5' CR
German = 6										'#' 'L' 'N' 'G' ':' '6' CR	'=' 'L' 'N' 'G' ':' '6' CR
Italian = 7										'#' 'L' 'N' 'G' ':' '7' CR	'=' 'L' 'N' 'G' ':' '7' CR
Dutch = 8										'#' 'L' 'N' 'G' ':' '8' CR	'=' 'L' 'N' 'G' ':' '8' CR
Polish = 9										'#' 'L' 'N' 'G' ':' '9' CR	'=' 'L' 'N' 'G' ':' '9' CR
Czech = 10										'#' 'L' 'N' 'G' ':' '1' '0' CR	'=' 'L' 'N' 'G' ':' '1' '0' CR
Swedish = 11										'#' 'L' 'N' 'G' ':' '1' '1' CR	'=' 'L' 'N' 'G' ':' '1' '1' CR
Finnish = 12										'#' 'L' 'N' 'G' ':' '1' '2' CR	'=' 'L' 'N' 'G' ':' '1' '2' CR
Hungarian = 13										'#' 'L' 'N' 'G' ':' '1' '3' CR	'=' 'L' 'N' 'G' ':' '1' '3' CR
Norwegian = 14										'#' 'L' 'N' 'G' ':' '1' '4' CR	'=' 'L' 'N' 'G' ':' '1' '4' CR
Danish = 15										'#' 'L' 'N' 'G' ':' '1' '5' CR	'=' 'L' 'N' 'G' ':' '1' '5' CR
Chinese T = 16										'#' 'L' 'N' 'G' ':' '1' '6' CR	'=' 'L' 'N' 'G' ':' '1' '6' CR
Chinese S = 17										'#' 'L' 'N' 'G' ':' '1' '7' CR	'=' 'L' 'N' 'G' ':' '1' '7' CR
Background	BGC	X	o	o	X	X	X	X	o	'#' 'B' 'G' 'C' ':' PARAM : 0 to 2 CR	'=' 'B' 'G' 'C' ':' PARAM : 0 to 2 CR
Logo = 0										'#' 'B' 'G' 'C' ':' '0' CR	'=' 'B' 'G' 'C' ':' '0' CR
Blue = 1										'#' 'B' 'G' 'C' ':' '1' CR	'=' 'B' 'G' 'C' ':' '1' CR
Black = 2										'#' 'B' 'G' 'C' ':' '2' CR	'=' 'B' 'G' 'C' ':' '2' CR
Startup Screen	SUS	X	o	o	X	X	X	X	o	'#' 'S' 'U' 'S' ':' PARAM : 0 to 1 CR	'=' 'S' 'U' 'S' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'S' 'U' 'S' ':' '0' CR	'=' 'S' 'U' 'S' ':' '0' CR
On = 1										'#' 'S' 'U' 'S' ':' '1' CR	'=' 'S' 'U' 'S' ':' '1' CR
Icon	ICN	X	o	o	X	X	X	X	o	'#' 'I' 'C' 'N' ':' PARAM : 0 to 1 CR	'=' 'I' 'C' 'N' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'I' 'C' 'N' ':' '0' CR	'=' 'I' 'C' 'N' ':' '0' CR

Function	Command Name	EXE	GET	SET (val)	SET INC	SET DEC	SET MAX	SET MIN	SET INI	Command	Response
User Command											
Adjustment Group (Following State is "UART 0 Adjustment" with OSD)											
On = 1										'#' 'I' 'C' 'N' ':' '1' CR	'=' 'I' 'C' 'N' ':' '1' CR
Beep	BEP	X	o	o	X	X	X	X	o	'#' 'B' 'E' 'P' ':' PARAM : 0 to 1 CR	'=' 'B' 'E' 'P' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'B' 'E' 'P' ':' '0' CR	'=' 'B' 'E' 'P' ':' '0' CR
On = 1										'#' 'B' 'E' 'P' ':' '1' CR	'=' 'B' 'E' 'P' ':' '1' CR
Auto Keystone	AAK	X	o	o	X	X	X	X	o	'#' 'A' 'A' 'K' ':' PARAM : 0 to 1 CR	'=' 'A' 'A' 'K' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'A' 'A' 'K' ':' '0' CR	'=' 'A' 'A' 'K' ':' '0' CR
On = 1										'#' 'A' 'A' 'K' ':' '1' CR	'=' 'A' 'A' 'K' ':' '1' CR
Help Display	HLD	X	o	o	X	X	X	X	o	'#' 'H' 'L' 'D' ':' PARAM : 0 to 1 CR	'=' 'H' 'L' 'D' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'H' 'L' 'D' ':' '0' CR	'=' 'H' 'L' 'D' ':' '0' CR
On = 1										'#' 'H' 'L' 'D' ':' '1' CR	'=' 'H' 'L' 'D' ':' '1' CR
Projection Mode	PJM	X	o	o	X	X	X	X	o	'#' 'P' 'J' 'M' ':' PARAM : 0 to 3 CR	'=' 'P' 'J' 'M' ':' PARAM : 0 to 3 CR
Standard = 0										'#' 'P' 'J' 'M' ':' '0' CR	'=' 'P' 'J' 'M' ':' '0' CR
Rear = 1										'#' 'P' 'J' 'M' ':' '1' CR	'=' 'P' 'J' 'M' ':' '1' CR
Wall Color Correction	BBM	X	o	o	X	X	X	X	o	'#' 'B' 'B' 'M' ':' PARAM : 0 to 5 CR	'=' 'B' 'B' 'M' ':' PARAM : 0 to 5 CR
Off = 0										'#' 'B' 'B' 'M' ':' '0' CR	'=' 'B' 'B' 'M' ':' '0' CR
Whiteboard = 1										'#' 'B' 'B' 'M' ':' '1' CR	'=' 'B' 'B' 'M' ':' '1' CR
Beige = 2										'#' 'B' 'B' 'M' ':' '2' CR	'=' 'B' 'B' 'M' ':' '2' CR
Gray = 3										'#' 'B' 'B' 'M' ':' '3' CR	'=' 'B' 'B' 'M' ':' '3' CR
Blackboard(Green) = 4										'#' 'B' 'B' 'M' ':' '4' CR	'=' 'B' 'B' 'M' ':' '4' CR
3D Projection Mode	DPJ	X	o	o	X	X	X	X	o	'#' 'D' 'P' 'J' ':' PARAM : 0 to 1 CR	'=' 'D' 'P' 'J' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'D' 'P' 'J' ':' '0' CR	'=' 'D' 'P' 'J' ':' '0' CR
On = 1										'#' 'D' 'P' 'J' ':' '1' CR	'=' 'D' 'P' 'J' ':' '1' CR
3D DLP Link	DLL	X	o	o	X	X	X	X	o	'#' 'D' 'L' 'L' ':' PARAM : 0 to 1 CR	'=' 'D' 'L' 'L' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'D' 'L' 'L' ':' '0' CR	'=' 'D' 'L' 'L' ':' '0' CR
On = 1										'#' 'D' 'L' 'L' ':' '1' CR	'=' 'D' 'L' 'L' ':' '1' CR
3D LR Reverse	LRR	X	o	o	X	X	X	X	o	'#' 'L' 'R' 'R' ':' PARAM : 0 to 1 CR	'=' 'L' 'R' 'R' ':' PARAM : 0 to 1 CR
Normal = 0										'#' 'L' 'R' 'R' ':' '0' CR	'=' 'L' 'R' 'R' ':' '0' CR
Reverse = 1										'#' 'L' 'R' 'R' ':' '1' CR	'=' 'L' 'R' 'R' ':' '1' CR
No Signal Power Off	NPF	X	o	o	X	X	X	X	o	'#' 'N' 'P' 'F' ':' PARAM : 0 to 1 CR	'=' 'N' 'P' 'F' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'N' 'P' 'F' ':' '0' CR	'=' 'N' 'P' 'F' ':' '0' CR
On(5min) = 1										'#' 'N' 'P' 'F' ':' '1' CR	'=' 'N' 'P' 'F' ':' '1' CR
On(10min) = 2										'#' 'N' 'P' 'F' ':' '2' CR	'=' 'N' 'P' 'F' ':' '2' CR
On(20min) = 3										'#' 'N' 'P' 'F' ':' '3' CR	'=' 'N' 'P' 'F' ':' '3' CR
On(30min) = 4										'#' 'N' 'P' 'F' ':' '4' CR	'=' 'N' 'P' 'F' ':' '4' CR
Auto Input Search	AIS	X	o	o	X	X	X	X	o	'#' 'A' 'I' 'S' ':' PARAM : 0 to 1 CR	'=' 'A' 'I' 'S' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'A' 'I' 'S' ':' '0' CR	'=' 'A' 'I' 'S' ':' '0' CR
On = 1										'#' 'A' 'I' 'S' ':' '1' CR	'=' 'A' 'I' 'S' ':' '1' CR
Power On	APM	X	o	o	X	X	X	X	o	'#' 'A' 'P' 'M' ':' PARAM : 0 to 1 CR	'=' 'A' 'P' 'M' ':' PARAM : 0 to 1 CR
Manual = 0										'#' 'A' 'P' 'M' ':' '0' CR	'=' 'A' 'P' 'M' ':' '0' CR
Auto. = 1										'#' 'A' 'P' 'M' ':' '1' CR	'=' 'A' 'P' 'M' ':' '1' CR
Lamp Power	LPM	X	o	o	X	X	X	X	o	'#' 'L' 'P' 'M' ':' PARAM : 0 to 1 CR	'=' 'L' 'P' 'M' ':' PARAM : 0 to 1 CR
Low = 0										'#' 'L' 'P' 'M' ':' '0' CR	'=' 'L' 'P' 'M' ':' '0' CR
Standard = 1										'#' 'L' 'P' 'M' ':' '1' CR	'=' 'L' 'P' 'M' ':' '1' CR
Fan Mode	FMD	X	o	o	X	X	X	X	o	'#' 'F' 'M' 'D' ':' PARAM : 0 to 1 CR	'=' 'F' 'M' 'D' ':' PARAM : 0 to 1 CR
Standard = 0										'#' 'F' 'M' 'D' ':' '0' CR	'=' 'F' 'M' 'D' ':' '0' CR
High = 1										'#' 'F' 'M' 'D' ':' '1' CR	'=' 'F' 'M' 'D' ':' '1' CR
Remote Control ID	RCD	X	o	o	X	X	X	X	o	'#' 'R' 'C' 'D' ':' PARAM : 0 to 1 CR	'=' 'R' 'C' 'D' ':' PARAM : 0 to 1 CR
ID 1 = 0										'#' 'R' 'C' 'D' ':' '0' CR	'=' 'R' 'C' 'D' ':' '0' CR
ID 2 = 1										'#' 'R' 'C' 'D' ':' '1' CR	'=' 'R' 'C' 'D' ':' '1' CR
ID 3 = 2										'#' 'R' 'C' 'D' ':' '2' CR	'=' 'R' 'C' 'D' ':' '2' CR
ID 4 = 3										'#' 'R' 'C' 'D' ':' '3' CR	'=' 'R' 'C' 'D' ':' '3' CR
Key Lock	KLC	X	o	o	X	X	X	X	o	'#' 'K' 'L' 'C' ':' PARAM : 0 to 1 CR	'=' 'K' 'L' 'C' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'K' 'L' 'C' ':' '0' CR	'=' 'K' 'L' 'C' ':' '0' CR
On = 1										'#' 'K' 'L' 'C' ':' '1' CR	'=' 'K' 'L' 'C' ':' '1' CR
Standby Energy Saving	SBM	X	o	o	X	X	X	X	o	'#' 'S' 'B' 'M' ':' PARAM : 0 to 3 CR	'=' 'K' 'L' 'C' ':' PARAM : 0 to 3 CR
Off = 0										'#' 'S' 'B' 'M' ':' '0' CR	'=' 'K' 'L' 'C' ':' '0' CR
Low = 1										'#' 'S' 'B' 'M' ':' '1' CR	'=' 'K' 'L' 'C' ':' '1' CR
Medium = 2										'#' 'S' 'B' 'M' ':' '2' CR	'=' 'K' 'L' 'C' ':' '2' CR
High = 3										'#' 'S' 'B' 'M' ':' '3' CR	'=' 'K' 'L' 'C' ':' '3' CR
Closed Caption	CCM	X	o	o	X	X	X	X	o	'#' 'C' 'C' 'M' ':' PARAM : 0 to 8 CR	'=' 'C' 'C' 'M' ':' PARAM : 0 to 8 CR
Off = 0										'#' 'C' 'C' 'M' ':' '0' CR	'=' 'C' 'C' 'M' ':' '0' CR

Function	Command Name	EXE	GET	SET (val)	SET INC	SET DEC	SET MAX	SET MIN	SET INI	Command													Response										
User Command																																	
Adjustment Group (Following State is "UART 0 Adjustment" with OSD)																																	
CC-1 = 1										'#'	'C'	'C'	'M'	':'	'1'	CR							'='	'C'	'C'	'M'	':'	'1'	CR				
CC-2 = 2										'#'	'C'	'C'	'M'	':'	'2'	CR							'='	'C'	'C'	'M'	':'	'2'	CR				
CC-3 = 3										'#'	'C'	'C'	'M'	':'	'3'	CR							'='	'C'	'C'	'M'	':'	'3'	CR				
CC-4 = 4										'#'	'C'	'C'	'M'	':'	'4'	CR							'='	'C'	'C'	'M'	':'	'4'	CR				
Execution Group (Following State is Each Execution State)																																	
Turn On (in STANDBY state)	PON	o	X	X	X	X	X	X	X	'#'	'P'	'O'	'N'	CR									'='	'P'	'O'	'N'	':'	'S'	'C'	ID	CR		
Turn Off	POF	o	X	X	X	X	X	X	X	'#'	'P'	'O'	'F'	CR									'='	'P'	'O'	'F'	':'	'S'	'C'	ID	CR		
Shutdown	PSD	o	X	X	X	X	X	X	X	'#'	'P'	'S'	'D'	CR									'='	'P'	'S'	'D'	':'	'S'	'C'	ID	CR		
Status Display	DON	o	X	X	X	X	X	X	X	'#'	'D'	'O'	'N'	CR									'='	'D'	'O'	'N'	':'	'S'	'C'	ID	CR		
Erase OSD	DOF	o	X	X	X	X	X	X	X	'#'	'D'	'O'	'F'	CR									'='	'D'	'O'	'F'	':'	'S'	'C'	ID	CR		
Auto Setting @ Analog Computer	PAT	o	X	X	X	X	X	X	X	'#'	'P'	'A'	'T'	CR									'='	'D'	'P'	'R'	':'	'S'	'C'	ID	CR		
Reset All	DPR	o	X	X	X	X	X	X	X	'#'	'D'	'P'	'R'	CR									'='	'D'	'P'	'R'	':'	'S'	'C'	ID	CR		
Input Search (when Auto Input Search is ON)	INS	o	X	X	X	X	X	X	X	'#'	'I'	'N'	'S'	CR									'='	'I'	'N'	'S'	':'	'S'	'C'	ID	CR		
Toggle Function Group (Following State is Each Execution State)																																	
Mute	MUT	X	o	o	X	X	X	X	o	'#'	'M'	'U'	'T'	':'	PARAM : 0 to 1			CR					'='	'M'	'U'	'T'	':'	PARAM : 0 to 1			CR		
Mute On = 1										'#'	'M'	'U'	'T'	':'	'1'	CR							'='	'M'	'U'	'T'	':'	'1'	CR				
Mute Off = 0										'#'	'M'	'U'	'T'	':'	'0'	CR							'='	'M'	'U'	'T'	':'	'0'	CR				
Freeze	FRZ	X	o	o	X	X	X	X	o	'#'	'F'	'R'	'Z'	':'	PARAM : 0 to 1			CR					'='	'F'	'R'	'Z'	':'	PARAM : 0 to 1			CR		
Freeze On = 1										'#'	'F'	'R'	'Z'	':'	'1'	CR							'='	'F'	'R'	'Z'	':'	'1'	CR				
Freeze Off = 0										'#'	'F'	'R'	'Z'	':'	'0'	CR							'='	'F'	'R'	'Z'	':'	'0'	CR				
Resize	RSZ	X	o	X	o	o	X	X	o	'#'	'R'	'S'	'Z'	':'	PARAM : 0 to 1			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'	CR									'='	'R'	'S'	'Z'	':'	'1'	CR				
Resize State = Off (Get Status Only)		X	o	X	X	X	X	X	X	'#'	'R'	'S'	'Z'	CR									'='	'R'	'S'	'Z'	':'	'0'	CR				
Resize Up = INC		X	X	X	o	X	X	X	X	'#'	'R'	'S'	'Z'	':'	'I'	'N'	'C'	CR					'='	'R'	'S'	'Z'	':'	PARAM : 0 to 1			CR		
Resize Down = DEC		X	X	X	X	o	X	X	X	'#'	'R'	'S'	'Z'	':'	'D'	'E'	'C'	CR					'='	'R'	'S'	'Z'	':'	PARAM : 0 to 1			CR		
Resize Off (in RESIZE state) = INI		X	X	X	X	X	X	X	o	'#'	'R'	'S'	'Z'	':'	'I'	'N'	'I'	CR					'='	'R'	'S'	'Z'	':'	'0'	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 Postion Up = 1	DP1	o	X	X	X	X	X	X	X	'#'	'D'	'P'	'1'	CR									'='	'D'	'P'	'1'	':'	'S'	'C'	ID	CR		
Display Postion Down = 2	DP2	o	X	X	X	X	X	X	X	'#'	'D'	'P'	'2'	CR									'='	'D'	'P'	'2'	':'	'S'	'C'	ID	CR		
Display Postion Left = 3	DP3	o	X	X	X	X	X	X	X	'#'	'D'	'P'	'3'	CR									'='	'D'	'P'	'3'	':'	'S'	'C'	ID	CR		
Display Postion 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	o	X	X	X	X	o	'#'	'I'	'N'	'P'	':'	PARAM : 0 to 13			CR					'='	'I'	'N'	'P'	':'	PARAM : 0 to 13			CR		
RGB 1 = 1		X	o	o	X	X	X	X	o	'#'	'I'	'N'	'P'	':'	'1'	CR							'='	'I'	'N'	'P'	':'	'1'	CR				
YPBbPr 1 = 2		X	o	o	X	X	X	X	o	'#'	'I'	'N'	'P'	':'	'2'	CR							'='	'I'	'N'	'P'	':'	'2'	CR				
(Reserved)																																	
(Reserved)																																	
HDMI = 5		X	o	o	X	X	X	X	o	'#'	'I'	'N'	'P'	':'	'5'	CR							'='	'I'	'N'	'P'	':'	'5'	CR				
(Reserved)																																	
(Reserved)																																	
(Reserved)																																	
Video = 9		X	o	o	X	X	X	X	o	'#'	'I'	'N'	'P'	':'	'9'	CR							'='	'I'	'N'	'P'	':'	'9'	CR				
(Reserved)																																	
(Reserved)																																	
Network = 12		X	o	o	X	X	X	X	o	'#'	'I'	'N'	'P'	':'	'1'	'2'	CR						'='	'I'	'N'	'P'	':'	'1'	'2'	CR			
USB = 13		X	o	o	X	X	X	X	o	'#'	'I'	'N'	'P'	':'	'1'	'3'	CR						'='	'I'	'N'	'P'	':'	'1'	'3'	CR			
Key Control Group																																	
"UP" Key	KUP	o	X	X	X	X	X	X	X	'#'	'K'	'U'	'P'	CR									'='	'K'	'U'	'P'	':'	'S'	'C'	ID	CR		
"DOWN" Key	KDN	o	X	X	X	X	X	X	X	'#'	'K'	'D'	'N'	CR									'='	'K'	'D'	'N'	':'	'S'	'C'	ID	CR		
"LEFT" Key	KLE	o	X	X	X	X	X	X	X	'#'	'K'	'L'	'E'	CR									'='	'K'	'L'	'E'	':'	'S'	'C'	ID	CR		
"RIGHT" Key	KRI	o	X	X	X	X	X	X	X	'#'	'K'	'R'	'I'	CR									'='	'K'	'R'	'I'	':'	'S'	'C'	ID	CR		
"ON/STANDBY" Key	KON	o	X	X	X	X	X	X	X	'#'	'K'	'O'	'N'	CR									'='	'K'	'O'	'N'	':'	'S'	'C'	ID	CR		
"MENU" Key	KMN	o	X	X	X	X	X	X	X	'#'	'K'	'M'	'N'	CR									'='	'K'	'M'	'N'	':'	'S'	'C'	ID	CR		
"ENTER" Key	KEN	o	X	X	X	X	X	X	X	'#'	'K'	'E'	'N'	CR									'='	'K'	'E'	'N'	':'	'S'	'C'	ID	CR		
"INPUT" Key	KIN	o	X	X	X	X	X	X	X	'#'	'K'	'I'	'N'	CR									'='	'K'	'I'	'N'	':'	'S'	'C'	ID	CR		
"MUTE" Key	KMT	o	X	X	X	X	X	X	X	'#'	'K'	'M'	'T'	CR									'='	'K'	'M'	'T'	':'	'S'	'C'	ID	CR		
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			CR		
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 255			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		

User Command

Function	Command Name	EXE	GET	SET (val)	SET INC	SET DEC	SET MAX	SET MIN	SET INI	Command	Response
Adjustment Group (Following State is "UART 0 Adjustment" with OSD)											
Filter Time (Chinese Model Only)	SFT	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
Fan 2 Speed (RPM)	SF2	X	o	X	X	X	X	X	X	'#' 'S' 'F' '2' CR	'=' 'S' 'F' '2' ':' PARAM : 0 to 65535 CR
Fan 3 Speed (RPM)	SF3	X	o	X	X	X	X	X	X	'#' 'S' 'F' '3' CR	'=' 'S' 'F' '3' ':' PARAM : 0 to 65535 CR
Fan 4 Speed (RPM)	SF4	X	o	X	X	X	X	X	X	'#' 'S' 'F' '4' CR	'=' 'S' 'F' '4' ':' PARAM : 0 to 65535 CR
Temperature 1 (Degree C)	ST1	X	o	X	X	X	X	X	X	'#' 'S' 'T' '1' CR	'=' 'S' 'T' '1' ':' PARAM : -128 to 127 CR
Temperature 2 (Degree C)	ST2	X	o	X	X	X	X	X	X	'#' 'S' 'T' '2' CR	'=' 'S' 'T' '2' ':' PARAM : -128 to 127 CR
Serial Number	SSN	X	o	X	X	X	X	X	X	'#' 'S' 'S' 'N' CR	'=' 'S' 'S' 'N' ':' 16 Byte ASCII Code CR
Software Version	SSV	X	o	X	X	X	X	X	X	'#' 'S' 'S' 'V' CR	'=' 'S' 'S' 'V' ':' 4Byte ASCII Code CR
Slide Show Control Group											
Move to root directory - Thumbnail (4130N Only)	OMR	o	X	X	X	X	X	X	X	'#' 'O' 'M' 'R' CR	'=' 'O' 'M' 'R' ':' 'S' 'C' ID CR
Move to top file in directory - Thumbnail (4130N Only)	OMT	o	X	X	X	X	X	X	X	'#' 'O' 'M' 'T' CR	'=' 'O' 'M' 'T' ':' 'S' 'C' ID CR
Move thumbnail cursor up (4130N Only)	OCU	o	X	X	X	X	X	X	X	'#' 'O' 'C' 'U' CR	'=' 'O' 'C' 'U' ':' 'S' 'C' ID CR
Move thumbnail cursor down (4130N Only)	OCD	o	X	X	X	X	X	X	X	'#' 'O' 'C' 'D' CR	'=' 'O' 'C' 'D' ':' 'S' 'C' ID CR
Move thumbnail cursor left (4130N Only)	OCL	o	X	X	X	X	X	X	X	'#' 'O' 'C' 'L' CR	'=' 'O' 'C' 'L' ':' 'S' 'C' ID CR
Move thumbnail cursor right (4130N Only)	OCR	o	X	X	X	X	X	X	X	'#' 'O' 'C' 'R' CR	'=' 'O' 'C' 'R' ':' 'S' 'C' ID CR
Start JPEG slide show (4130N Only)	OSG	o	X	X	X	X	X	X	X	'#' 'O' 'S' 'G' CR	'=' 'O' 'S' 'G' ':' 'S' 'C' ID CR
Display previous JPEG file (4130N Only)	OSP	o	X	X	X	X	X	X	X	'#' 'O' 'S' 'P' CR	'=' 'O' 'S' 'P' ':' 'S' 'C' ID CR
Display next JPEG file (4130N Only)	OSN	o	X	X	X	X	X	X	X	'#' 'O' 'S' 'N' CR	'=' 'O' 'S' 'N' ':' 'S' 'C' ID CR
Switch to auto slide mode (4130N Only)	OSA	o	X	X	X	X	X	X	X	'#' 'O' 'S' 'A' CR	'=' 'O' 'S' 'A' ':' 'S' 'C' ID CR
Switch to manual slide mode (4130N Only)	OSM	o	X	X	X	X	X	X	X	'#' 'O' 'S' 'M' CR	'=' 'O' 'S' 'M' ':' 'S' 'C' ID CR
Stop JPEG slide show (4130N Only)	OSS	o	X	X	X	X	X	X	X	'#' 'O' 'S' 'S' CR	'=' 'O' 'S' 'S' ':' 'E' 'R' ID CR
Thumbnail Setting Group											
Auto Demo (4130N Only)	OAD	X	o	o	X	X	X	X	o	'#' 'O' 'A' 'D' CR	'=' 'O' 'A' 'D' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'O' 'A' 'D' ':' '0' CR	'=' 'O' 'A' 'D' ':' '0' CR
On = 1										'#' 'O' 'A' 'D' ':' '1' CR	'=' 'O' 'A' 'D' ':' '1' CR
Set Interval Time (4130N Only)	NIT	X	X	X	X	X	X	X	X	'#' 'N' 'I' 'T' ':' PARAM : 5 to 999 CR	'=' 'N' 'I' 'T' ':' '0' CR
Get Imterval Time (4130N Only)	NVQ									'#' 'N' 'V' 'Q' CR	'=' 'N' 'V' 'Q' ':' PARAM : 5 to 999 CR
Initialize Interval Time (4130N Only)	NVI									'#' 'N' 'V' 'I' CR	'=' 'N' 'V' 'I' ':' '0' CR
Repeat (4130N Only)	ORP	X	o	o	X	X	X	X	o	'#' 'O' 'R' 'P' CR	'=' 'O' 'R' 'P' ':' PARAM : 0 to 1 CR
Off = 0										'#' 'O' 'R' 'P' ':' '0' CR	'=' 'O' 'R' 'P' ':' '0' CR
On = 1										'#' 'O' 'R' 'P' ':' '1' CR	'=' 'O' 'R' 'P' ':' '1' CR
USB Execute Group											
Unplug USB Device (4130N Only)	OUD	o	X	X	X	X	X	X	X	'#' 'O' 'U' 'D' CR	'=' 'O' 'U' 'D' ':' 'S' 'C' ID CR
Network Execute Group											
Initialize all settings in Network unit (4130N Only)	OIA	o	X	X	X	X	X	X	X	'#' 'O' 'I' 'A' CR	'=' 'O' 'I' 'A' ':' 'S' 'C' ID CR
Initialize wireless LAN settings (4130N Only)	OIN	o	X	X	X	X	X	X	X	'#' 'O' 'I' 'N' CR	'=' 'O' 'I' 'N' ':' 'S' 'C' ID 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

'='	Command	':'	'E'	'R'	ID	CR

Note U1 : Timer Parameter Response

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

--- warning / constraint ---

Warn : Please ensure that you execute next command after you get a response of a previous command (if any).
The next command may be failed or ignored if it is executed before you get a response of a previous command.

2015.5