

DLP®プロジェクター RICOH PJ WX4153N/WX4153

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 CR
 PARAM: None

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

Response
 = X X X : S C ID CR
 ID:Result(ASCII Character)
 0:Default
 Other: Reserved
 = P O N : S C 0 CR

<Adjustment command>

Get

X X X CR
 PARAM: None

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

= 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

Set

X X X : PARAM CR

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

Example
 Set the Contrast (-3)
 # V C N : - 3 CR
 Increment the Brightness (+3 -> +4)
 # V B R : T N C CR
 Initialize the V Keystone (0)
 # P K S : T N T CR

= 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

<Setting Command>

Get

X X X CR
 PARAM: None

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

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

= L N G : 0 CR

Set

X X X : PARAM CR

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

Example
 Set the language (Japanese = 10)
 # L N G : 1 0 CR
 Initialize the projection mode (standard = 0)
 # P J M : T N T CR

= X X X : PARAM CR
 PARAM: The value after setting

= L N G : 1 0 CR

= P J M : 0 CR

●Response of Illegal command

<Unsupported command>

Example
 Unknown Command
 # A B C CR
 Unknown Parameter
 # P J M : X Y Z CR

= E R ID CR
 ID:Error number(ASCII character)
 0: Default
 Other: Reserved
 = E R 0 CR
 = E R 0 CR

<Command error>

Example
 Decrement the language (Unsupported parameter)
 # L N G : D E C CR
 Send the Power Off command when the projector is standby mode.
 # P O F CR

= X X X : E R ID CR
 ID:Error number(ASCII character)
 0: Default
 Other: Reserved
 = L N G : E R 0 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 -2³¹ to (2³¹-1).
- Maximum command length is 128Byte.
- Ignore the BYTE code other than ASCII character.

Function	Command Name	EXE	GET	SET						Command	Response														
				(val)	INC	DEC	MA	MIN	INI		User Command														
実行コマンド																									
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		
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		
Slide Show Control Group																									
Move to root directory - Thumbnail	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	OMT	o	x	x	x	x	x	x	x	#	'O'	'M'	'T'	CR	'='	'O'	'M'	'T'	:	'S'	'C'	ID	CR		
Move thumbnail cursor up	OCU	o	x	x	x	x	x	x	x	#	'O'	'C'	'U'	CR	'='	'O'	'C'	'U'	:	'S'	'C'	ID	CR		
Move thumbnail cursor down	OCD	o	x	x	x	x	x	x	x	#	'O'	'C'	'D'	CR	'='	'O'	'C'	'D'	:	'S'	'C'	ID	CR		
Move thumbnail cursor left	OCL	o	x	x	x	x	x	x	x	#	'O'	'C'	'L'	CR	'='	'O'	'C'	'L'	:	'S'	'C'	ID	CR		
Move thumbnail cursor right	OCR	o	x	x	x	x	x	x	x	#	'O'	'C'	'R'	CR	'='	'O'	'C'	'R'	:	'S'	'C'	ID	CR		
Display previous JPEG file	OSP	o	x	x	x	x	x	x	x	#	'O'	'S'	'P'	CR	'='	'O'	'S'	'P'	:	'S'	'C'	ID	CR		
Display next JPEG file	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	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	OSM	o	x	x	x	x	x	x	x	#	'O'	'S'	'M'	CR	'='	'O'	'S'	'M'	:	'S'	'C'	ID	CR		
Stop JPEG slide show	OSS	o	x	x	x	x	x	x	x	#	'O'	'S'	'S'	CR	'='	'O'	'S'	'S'	:	'S'	'C'	ID	CR		
USB Execute Group																									
Unplug USB Device	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	OIA	o	x	x	x	x	x	x	x	#	'O'	'I'	'A'	CR	'='	'O'	'I'	'A'	:	'S'	'C'	ID	CR		
Initialize wireless LAN settings	OIN	o	x	x	x	x	x	x	x	#	'O'	'I'	'N'	CR	'='	'O'	'I'	'N'	:	'S'	'C'	ID	CR		
設定コマンド																									
Setting Group (Following State is "UART 0 Setting" with OSD)																									
Picture Mode	PIC	x	o	x	x	x	x	x	x	#	'P'	'I'	'C'	CR	'='	'P'	'I'	'C'	:	PARAM : 0 to 4	CR				
PictureMode 1(Bright) = 0		x	o	o	x	x	x	x	x	#	'P'	'I'	'C'	:	'0'	CR	'='	'P'	'I'	'C'	:	'0'	CR		
PictureMode 2(Standard) = 1		x	o	o	x	x	x	x	x	#	'P'	'I'	'C'	:	'1'	CR	'='	'P'	'I'	'C'	:	'1'	CR		
PictureMode 3(Natural) = 2		x	o	o	x	x	x	x	x	#	'P'	'I'	'C'	:	'2'	CR	'='	'P'	'I'	'C'	:	'2'	CR		
PictureMode 4(Movie) = 3		x	o	o	x	x	x	x	x	#	'P'	'I'	'C'	:	'3'	CR	'='	'P'	'I'	'C'	:	'3'	CR		
PictureMode 5(DICOM Sim. Mode) = 4		x	o	o	x	x	x	x	x	#	'P'	'I'	'C'	:	'4'	CR	'='	'P'	'I'	'C'	:	'4'	CR		
PictureMode 6(Color Adjustment) = 5		x	o	o	x	x	x	x	x	#	'P'	'I'	'C'	:	'5'	CR	'='	'P'	'I'	'C'	:	'5'	CR		
Default		x	o	x	x	x	x	x	o	#	'P'	'I'	'C'	:	'1'	'N'	'I'	CR	'='	'P'	'I'	'C'	:	'1'	CR
Noise Reduction	NRE	x	o	x	x	x	x	x	x	#	'N'	'R'	'E'	CR	'='	'N'	'R'	'E'	:	PARAM : 0 to 1	CR				
Noise Reduction Off = 0		x	o	o	x	x	x	x	x	#	'N'	'R'	'E'	:	'0'	CR	'='	'N'	'R'	'E'	:	'0'	CR		
Noise Reduction On = 1		x	o	o	x	x	x	x	x	#	'N'	'R'	'E'	:	'1'	CR	'='	'N'	'R'	'E'	:	'1'	CR		
Default		x	o	x	x	x	x	x	o	#	'N'	'R'	'E'	:	'1'	'N'	'I'	CR	'='	'N'	'R'	'E'	:	'0'	CR
RGB Input Range	RRI	x	o	x	x	x	x	x	x	#	'R'	'R'	'I'	CR	'='	'R'	'R'	'I'	:	PARAM : 0 to 2	CR				
Auto = 0		x	o	o	x	x	x	x	x	#	'R'	'R'	'I'	:	'0'	CR	'='	'R'	'R'	'I'	:	'0'	CR		
Standard = 1		x	o	o	x	x	x	x	x	#	'R'	'R'	'I'	:	'1'	CR	'='	'R'	'R'	'I'	:	'1'	CR		
Full = 2		x	o	o	x	x	x	x	x	#	'R'	'R'	'I'	:	'2'	CR	'='	'R'	'R'	'I'	:	'2'	CR		
Default		x	o	x	x	x	x	x	o	#	'R'	'R'	'I'	:	'1'	'N'	'I'	CR	'='	'R'	'R'	'I'	:	'0'	CR
Auto Keystone	AAK	x	o	x	x	x	x	x	x	#	'A'	'A'	'K'	CR	'='	'A'	'A'	'K'	:	PARAM : 0 to 1	CR				
Off = 0		x	o	o	x	x	x	x	x	#	'A'	'A'	'K'	:	'0'	CR	'='	'A'	'A'	'K'	:	'0'	CR		
On = 1		x	o	o	x	x	x	x	x	#	'A'	'A'	'K'	:	'1'	CR	'='	'A'	'A'	'K'	:	'1'	CR		
Default		x	o	x	x	x	x	x	o	#	'A'	'A'	'K'	:	'1'	'N'	'I'	CR	'='	'A'	'A'	'K'	:	'1'	CR
Aspect	SCS	x	o	x	x	x	x	x	x	#	'S'	'C'	'S'	CR	'='	'S'	'C'	'S'	:	PARAM : 0 to 4	CR				
Screen Size (Normal) = 0		x	o	o	x	x	x	x	x	#	'S'	'C'	'S'	:	'0'	CR	'='	'S'	'C'	'S'	:	'0'	CR		
Screen Size (16:9) = 1		x	o	o	x	x	x	x	x	#	'S'	'C'	'S'	:	'1'	CR	'='	'S'	'C'	'S'	:	'1'	CR		
Screen Size (Full) = 2		x	o	o	x	x	x	x	x	#	'S'	'C'	'S'	:	'2'	CR	'='	'S'	'C'	'S'	:	'2'	CR		
Screen Size (Native) = 3		x	o	o	x	x	x	x	x	#	'S'	'C'	'S'	:	'3'	CR	'='	'S'	'C'	'S'	:	'3'	CR		
Screen Size (Zoom) = 4		x	o	o	x	x	x	x	x	#	'S'	'C'	'S'	:	'4'	CR	'='	'S'	'C'	'S'	:	'4'	CR		
Default		x	o	x	x	x	x	x	o	#	'S'	'C'	'S'	:	'1'	'N'	'I'	CR	'='	'S'	'C'	'S'	:	'0'	CR
Wall Color Mode	BBM	x	o	x	x	x	x	x	x	#	'B'	'B'	'M'	CR	'='	'B'	'B'	'M'	:	PARAM : 0 to 5	CR				
Off = 0		x	o	o	x	x	x	x	x	#	'B'	'B'	'M'	:	'0'	CR	'='	'B'	'B'	'M'	:	'0'	CR		
Whiteboard = 1		x	o	o	x	x	x	x	x	#	'B'	'B'	'M'	:	'1'	CR	'='	'B'	'B'	'M'	:	'1'	CR		
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		

Function	Command Name	EXE	GET	SET						Command	Response			
				(val)	INC	DEC	MA	MIN	INI		User Command			
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' '1' 'N' 'I' CR	'B' 'B' 'M' '0' CR			
3D Projection	DPJ	X	O	X	X	X	X	X	X	# 'D' 'P' 'J' CR	'D' 'P' 'J' 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' '1' 'N' 'I' CR	'D' 'P' 'J' '0' CR			
3D LR Reverse	LRR	X	O	X	X	X	X	X	X	# 'L' 'R' 'R' CR	'L' 'R' 'R' 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' '1' 'N' 'I' CR	'L' 'R' 'R' '0' CR			
3D Format	TDF	X	O	X	X	X	X	X	X	# 'T' 'D' 'F' CR	'T' 'D' 'F' 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' '1' 'N' 'I' CR	'T' 'D' 'F' '0' CR			
High Quality Sound Mode	HSM	X	O	X	X	X	X	X	X	# 'H' 'S' 'M' CR	'H' 'S' 'M' PARAM : 1 to 3 CR			
Standard = 1		X	O	O	X	X	X	X	X	# 'H' 'S' 'M' '1' CR	'H' 'S' 'M' '1' CR			
Narration = 2		X	O	O	X	X	X	X	X	# 'H' 'S' 'M' '2' CR	'H' 'S' 'M' '2' CR			
Music = 3		X	O	O	X	X	X	X	X	# 'H' 'S' 'M' '3' CR	'H' 'S' 'M' '3' CR			
Default		X	O	X	X	X	X	X	O	# 'H' 'S' 'M' '1' 'N' 'I' CR	'H' 'S' 'M' '1' CR			
Start on Input Detection	SID	X	O	X	X	X	X	X	X	# 'S' 'I' 'D' CR	'S' 'I' 'D' PARAM : 0 to 1 CR			
Off = 0		X	O	O	X	X	X	X	X	# 'S' 'I' 'D' '0' CR	'S' 'I' 'D' '0' CR			
On = 1		X	O	O	X	X	X	X	X	# 'S' 'I' 'D' '1' CR	'S' 'I' 'D' '1' CR			
Default		X	O	X	X	X	X	X	O	# 'S' 'I' 'D' '1' 'N' 'I' CR	'S' 'I' 'D' '1' CR			
Lamp Power	LPM	X	O	X	X	X	X	X	X	# 'L' 'P' 'M' CR	'L' 'P' 'M' PARAM : 0 to 1 CR			
Low = 0		X	O	O	X	X	X	X	X	# 'L' 'P' 'M' '0' CR	'L' 'P' 'M' '0' CR			
Standard = 1		X	O	O	X	X	X	X	X	# 'L' 'P' 'M' '1' CR	'L' 'P' 'M' '1' CR			
Default		X	O	X	X	X	X	X	O	# 'L' 'P' 'M' '1' 'N' 'I' CR	'L' 'P' 'M' '1' CR			
Lamp Power on No Signal	NSL	X	O	X	X	X	X	X	X	# 'N' 'S' 'L' CR	'N' 'S' 'L' AM : 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' '1' 'N' 'I' CR	'N' 'S' 'L' '0' CR			
Image Eco	IEC	X	O	X	X	X	X	X	X	# 'I' 'E' 'C' CR	'I' 'E' 'C' AM : 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' '1' 'N' 'I' CR	'I' 'E' 'C' '1' CR			
Power Off on No Signal	NPF	X	O	X	X	X	X	X	X	# 'N' 'P' 'F' CR	'N' 'P' 'F' 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' '1' 'N' 'I' CR	'N' 'P' 'F' '3' CR			
Power on Standby	ESM	X	O	X	X	X	X	X	X	# 'E' 'S' 'M' CR	'E' 'S' 'M' AM : 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' '1' 'N' 'I' CR	'E' 'S' 'M' '0' CR			
Network Settings on Standby	SBN	X	O	X	X	X	X	X	X	# 'S' 'B' 'N' CR	'S' 'B' 'N' PARAM : 0 to 2 CR			
Do not Use		X	O	O	X	X	X	X	X	# 'S' 'B' 'N' '0' CR	'S' 'B' 'N' '0' CR			
Wired Lan		X	O	O	X	X	X	X	X	# 'S' 'B' 'N' '1' CR	'S' 'B' 'N' '1' CR			
Wired/Wireless LAN		X	O	O	X	X	X	X	X	# 'S' 'B' 'N' '2' CR	'S' 'B' 'N' '2' CR			
Default		X	O	X	X	X	X	X	O	# 'S' 'B' 'N' '1' 'N' 'I' CR	'S' 'B' 'N' '1' CR			
Auto Input Search	AIS	X	O	X	X	X	X	X	X	# 'A' 'I' 'S' CR	'A' 'I' 'S' 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' '1' 'N' 'I' CR	'A' 'I' 'S' '1' CR			
Interactive Mode	PBS	X	O	X	X	X	X	X	X	# 'P' 'B' 'S' CR	'P' 'B' 'S' 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' '1' 'N' 'I' CR	'P' 'B' 'S' '0' CR			
Beep	BEP	X	O	X	X	X	X	X	X	# 'B' 'E' 'P' CR	'B' 'E' 'P' PARAM : 0 to 1 CR			
Off = 0		X	O	O	X	X	X	X	X	# 'B' 'E' 'P' '0' CR	'B' 'E' 'P' '0' CR			
On = 1		X	O	O	X	X	X	X	X	# 'B' 'E' 'P' '1' CR	'B' 'E' 'P' '1' CR			
Default		X	O	X	X	X	X	X	O	# 'B' 'E' 'P' '1' 'N' 'I' CR	'B' 'E' 'P' '1' CR			
Background	BGC	X	O	O	X	X	X	X	X	# 'B' 'G' 'C' CR	'B' 'G' 'C' PARAM : 0 to 2 CR			
Logo = 0		X	O	O	X	X	X	X	X	# 'B' 'G' 'C' '0' CR	'B' 'G' 'C' '0' CR			
Blue = 1		X	O	O	X	X	X	X	X	# 'B' 'G' 'C' '1' CR	'B' 'G' 'C' '1' CR			
None = 2		X	O	O	X	X	X	X	X	# 'B' 'G' 'C' '2' CR	'B' 'G' 'C' '2' CR			
Default		X	O	X	X	X	X	X	O	# 'B' 'G' 'C' '1' 'N' 'I' CR	'B' 'G' 'C' '0' CR			

Function	Command Name	EXE	GET	SET						Command	Response			
				(val)	INC	DEC	MA	MIN	INI					
User Command														
Unassigned = 0		X	O	O	X	X	X	X	X	# 'C' 'O' 'B' ':' '0' CR	'C' 'O' 'B' ':' '0' CR			
Presentn Timer = 1		X	O	O	X	X	X	X	X	# 'C' 'O' 'B' ':' '1' CR	'C' 'O' 'B' ':' '1' CR			
Auto Keystone = 2		X	O	O	X	X	X	X	X	# 'C' 'O' 'B' ':' '2' CR	'C' 'O' 'B' ':' '2' CR			
Magnify (Resize) = 3		X	O	O	X	X	X	X	X	# 'C' 'O' 'B' ':' '3' CR	'C' 'O' 'B' ':' '3' CR			
Zoom = 4		X	O	O	X	X	X	X	X	# 'C' 'O' 'B' ':' '4' CR	'C' 'O' 'B' ':' '4' CR			
Freeze = 5		X	O	O	X	X	X	X	X	# 'C' 'O' 'B' ':' '5' CR	'C' 'O' 'B' ':' '5' CR			
Picture Mode = 6		X	O	O	X	X	X	X	X	# 'C' 'O' 'B' ':' '6' CR	'C' 'O' 'B' ':' '6' CR			
Wall Color Mode = 7		X	O	O	X	X	X	X	X	# 'C' 'O' 'B' ':' '7' CR	'C' 'O' 'B' ':' '7' CR			
Default		X	O	X	X	X	X	X	O	# 'C' 'O' 'B' ':' '1' 'N' 'I' CR	'C' 'O' 'B' ':' '0' 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' 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	O	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	O	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	O	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	X	X	X	X	X	X	# 'I' 'N' 'P' CR	'I' 'N' 'P' ':' AM : 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			
(Reserved)														
(Reserved)														
HDMI 1 = 5		X	O	O	X	X	X	X	X	# 'I' 'N' 'P' ':' '5' CR	'I' 'N' 'P' ':' '5' CR			
(Reserved)														
HDMI 2 = 7		X	O	O	X	X	X	X	X	# 'I' 'N' 'P' ':' '7' CR	'I' 'N' 'P' ':' '7' CR			
(Reserved)														
(Reserved)														
(Reserved)														
(Reserved)														
Network = 12		X	O	O	X	X	X	X	X	# 'I' 'N' 'P' ':' '1' '2' CR	'I' 'N' 'P' ':' '12' CR			
USB = 13		X	O	O	X	X	X	X	X	# 'I' 'N' 'P' ':' '1' '3' CR	'I' 'N' 'P' ':' '13' CR			
Server = 14		X	O	O	X	X	X	X	X	# 'I' 'N' 'P' ':' '1' '4' CR	'I' 'N' 'P' ':' '14' CR			
Miracast = 15		X	O	O	X	X	X	X	X	# 'I' 'N' 'P' ':' '1' '5' 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	'N' 'I' 'T' ':' '0' CR CR NU			
Get Interval Time	NVQ	X	O	X	X	X	X	X	X	# 'N' 'V' 'Q' CR	'N' 'V' 'Q' ':' PARAM : 5 to 999			
Initialize Interval Time	NVI	X	O	X	X	X	X	X	O	# 'N' 'V' 'I' CR	'N' 'V' 'I' ':' '0' 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' ':' '1' 'N' 'I' CR	'O' 'D' 'E' ':' '4' 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' ':' M : 0 to 255			
Input Source Information	SIS	X	O	X	X	X	X	X	X	# 'S' 'I' 'S' CR	'S' 'I' 'S' ':' PARAM : 0 to 255			
Signal Mode Information	SSG	X	O	X	X	X	X	X	X	# 'S' 'S' 'G' CR	'S' 'S' 'G' ':' PARAM : 0 to 65535			
Detected Error Type	SER	X	O	X	X	X	X	X	X	# 'S' 'E' 'R' CR	'S' 'E' 'R' ':' M : 0 to 255			
User Lamp Time	SLT	X	O	X	X	X	X	X	X	# 'S' 'L' 'T' CR	'S' 'L' 'T' ':' *Note U1			
Filter Time	SPT	X	O	X	X	X	X	X	X	# 'S' 'P' 'T' CR	'S' 'P' 'T' ':' *Note U1			
Total Time	STT	X	O	X	X	X	X	X	X	# 'S' 'T' 'T' CR	'S' 'T' 'T' ':' *Note U1			
Fan 1 Speed (RPM)	SF1	X	O	X	X	X	X	X	X	# 'S' 'F' '1' CR	'S' 'F' '1' ':' PARAM : 0 to 65535			
Fan 2 Speed (RPM)	SF2	X	O	X	X	X	X	X	X	# 'S' 'F' '2' CR	'S' 'F' '2' ':' PARAM : 0 to 65535			

RICOH Projector WX4153 Series RS232C Command List

For Customer

Function	Command Name	EXE	GET	SET						Command	Response	
				(val)	INC	DEC	MAX	MIN	INI			
User Command												
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
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
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
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' :	'=' 'V' 'V' 'L' :	PARAM : 0 to 50 CR
V Keystone	PKS	X	O	O	O	O	O	O	O	# 'P' 'K' 'S' :	'=' 'P' 'K' 'S' :	PARAM : -32 to +32 CR
Zoom (0-20% reduction)	ZOM	X	O	O	O	O	O	O	O	# 'Z' 'O' 'M' :	'=' 'Z' 'O' 'M' :	PARAM : 0 to 20 CR
Contrast	VCL	X	O	O	O	O	O	O	O	# 'V' 'C' 'L' :	'=' 'V' 'C' 'L' :	PARAM : -16 to +16 CR
Brightness	VBR	X	O	O	O	O	O	O	O	# 'V' 'B' 'R' :	'=' 'V' 'B' 'R' :	PARAM : -16 to +16 CR
Sharpness	VSH	X	O	O	O	O	O	O	O	# 'V' 'S' 'H' :	'=' 'V' 'S' 'H' :	PARAM : -8 to +8 CR
Red Level	VLR	X	O	O	O	O	O	O	O	# 'V' 'L' 'R' :	'=' 'V' 'L' 'R' :	PARAM : -16 to +16 CR
Green Level	VLG	X	O	O	O	O	O	O	O	# 'V' 'L' 'G' :	'=' 'V' 'L' 'G' :	PARAM : -16 to +16 CR
Blue Level	VLB	X	O	O	O	O	O	O	O	# 'V' 'L' 'B' :	'=' 'V' 'L' 'B' :	PARAM : -16 to +16 CR
Color Saturation	VCL	X	O	O	O	O	O	O	O	# 'V' 'C' 'L' :	'=' 'V' 'C' 'L' :	PARAM : -16 to +16 CR
Tint	VTN	X	O	O	O	O	O	O	O	# 'V' 'T' 'N' :	'=' 'V' 'T' 'N' :	PARAM : -16 to +16 CR
Phase	PPH	X	O	O	O	O	O	O	O	# 'P' 'P' 'H' :	'=' 'P' 'P' 'H' :	PARAM : 0 to 31 CR
Frequency	PCK	X	O	O	O	O	O	O	O	# 'P' 'C' 'K' :	'=' 'P' 'C' 'K' :	PARAM : -64 to +64 CR
H Position	PHP	X	O	O	O	O	O	O	O	# 'P' 'H' 'P' :	'=' 'P' 'H' 'P' :	PARAM : -64 to +64 CR
V Position	PVP	X	O	O	O	O	O	O	O	# 'P' 'V' 'P' :	'=' 'P' 'V' 'P' :	PARAM : -32 to +32 CR
Clamp 1 (Position)	PC1	X	O	O	O	O	O	O	O	# 'P' 'C' '1' :	'=' 'P' 'C' '1' :	PARAM : 0 to 255 CR
Clamp 2 (Width)	PC2	X	O	O	O	O	O	O	O	# 'P' 'C' '2' :	'=' 'P' 'C' '2' :	PARAM : 0 to 255 CR
Color Temperature	CCT	X	O	O	O	O	O	O	O	# 'C' 'C' 'T' :	'=' 'C' 'C' 'T' :	PARAM : -15 to +15 CR
Color Deviation	CCD	X	O	O	O	O	O	O	O	# 'C' 'C' 'D' :	'=' 'C' 'C' 'D' :	PARAM : -10 to +10 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

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

'=' '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

'=' '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

'=' '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

'=' '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 (0 to 23, or 255) SPACE Start Time : Min. (0 to 59, or 255) SPACE End Time : Hours (0 to 23) SPACE End Time : Min. (0 to 59) CR

Note U7 : Power Timer Time Setting Parameter Response

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

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

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

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