

# DLP®プロジェクター

## RICOH PJ WX4152NI/WX4152N/WX4152

### 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 | I | 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.  
 = | X | X | X | : | PARAM | 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 -2<sup>31</sup> to (2<sup>31</sup>-1).
- Maximum command length is 128Byte.
- Ignore the BYTE code other than ASCII character.

RICOH Projector WX4152 Series RS232C Command List

Function	Command Name	EX	GE	Y	INC	SET	MA	MIN	INI	Command	Response	
<b>実行コマンド</b>												
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
Turn Off	POF	O	X	X	X	X	X	X	X	P	O	F
Shutdown	PSD	O	X	X	X	X	X	X	X	P	S	D
Status Display	DON	O	X	X	X	X	X	X	X	D	O	N
Erase OSD	DOF	O	X	X	X	X	X	X	X	D	O	F
Auto Setting @ Analog Computer	PAT	O	X	X	X	X	X	X	X	P	A	T
Reset All	DPR	O	X	X	X	X	X	X	X	D	P	R
Input Search (when Auto Input Search is ON)	INS	O	X	X	X	X	X	X	X	I	N	S
<b>Key Control Group</b>												
"UP" Key	KUP	O	X	X	X	X	X	X	X	K	U	P
"DOWN" Key	KDN	O	X	X	X	X	X	X	X	K	D	N
"LEFT" Key	KLE	O	X	X	X	X	X	X	X	K	L	E
"RIGHT" Key	KRI	O	X	X	X	X	X	X	X	K	R	I
"ONSTANDBY" Key	KON	O	X	X	X	X	X	X	X	K	O	N
"MENU" Key	KMN	O	X	X	X	X	X	X	X	K	M	N
"ENTER" Key	KEN	O	X	X	X	X	X	X	X	K	E	N
"INPUT" Key	KIN	O	X	X	X	X	X	X	X	K	I	N
"MUTE" Key	KMT	O	X	X	X	X	X	X	X	K	M	T
<b>Slide Show Control Group</b>												
Move to root directory - Thumbnail	OMR	O	X	X	X	X	X	X	X	O	M	R
Move to top file in directory - Thumbnail	OMT	O	X	X	X	X	X	X	X	O	M	T
Move thumbnail cursor up	OCU	O	X	X	X	X	X	X	X	O	C	U
Move thumbnail cursor down	OCD	O	X	X	X	X	X	X	X	O	C	D
Move thumbnail cursor left	OCL	O	X	X	X	X	X	X	X	O	C	L
Move thumbnail cursor right	OCR	O	X	X	X	X	X	X	X	O	C	R
Display previous JPEG file	OSP	O	X	X	X	X	X	X	X	O	S	P
Display next JPEG file	OSN	O	X	X	X	X	X	X	X	O	S	N
Switch to auto slide mode	OSA	O	X	X	X	X	X	X	X	O	S	A
Switch to manual slide mode	OSM	O	X	X	X	X	X	X	X	O	S	M
Stop JPEG slide show	OSS	O	X	X	X	X	X	X	X	O	S	S
<b>USB Execute Group</b>												
Unplug USB Device	OUD	O	X	X	X	X	X	X	X	O	U	D
<b>Network Execute Group</b>												
Initialize all settings in Network unit	OIA	O	X	X	X	X	X	X	X	O	I	A
Initialize wireless LAN settings	OIN	O	X	X	X	X	X	X	X	O	I	N
<b>設定コマンド</b>												
Setting Group (Following State is "UART 0 Setting" with OSD)												
Picture Mode	PIC	X	O	X	X	X	X	X	X	P	I	C
PictureMode 1(Bright) = 0		X	O	X	X	X	X	X	X	P	I	C
PictureMode 2(Standard) = 1		X	O	X	X	X	X	X	X	P	I	C
PictureMode 3(Natural) = 2		X	O	X	X	X	X	X	X	P	I	C
PictureMode 4(Movie) = 3		X	O	X	X	X	X	X	X	P	I	C
PictureMode 5(DICOM Sim. Mode) = 4		X	O	X	X	X	X	X	X	P	I	C
Default		X	O	X	X	X	X	X	X	P	I	C
Noise Reduction	NRE	X	O	X	X	X	X	X	X	N	R	E
Noise Reduction Off = 0		X	O	X	X	X	X	X	X	N	R	E
Noise Reduction On = 1		X	O	X	X	X	X	X	X	N	R	E
Default		X	O	X	X	X	X	X	X	N	R	E
RGB Input Range	RRI	X	O	X	X	X	X	X	X	R	R	I
Auto = 0		X	O	X	X	X	X	X	X	R	R	I
Standard = 1		X	O	X	X	X	X	X	X	R	R	I
Full = 2		X	O	X	X	X	X	X	X	R	R	I
Default		X	O	X	X	X	X	X	X	R	R	I
Auto Keystones	AAK	X	O	X	X	X	X	X	X	A	A	K
Off = 0		X	O	X	X	X	X	X	X	A	A	K
On = 1		X	O	X	X	X	X	X	X	A	A	K
Default		X	O	X	X	X	X	X	X	A	A	K
Aspect	SCS	X	O	X	X	X	X	X	X	S	C	S
Screen Size (Normal) = 0		X	O	X	X	X	X	X	X	S	C	S
Screen Size (16:9) = 1		X	O	X	X	X	X	X	X	S	C	S
Screen Size (Full) = 2		X	O	X	X	X	X	X	X	S	C	S
Screen Size (Native) = 3		X	O	X	X	X	X	X	X	S	C	S
Screen Size (Zoom) = 4		X	O	X	X	X	X	X	X	S	C	S
Default		X	O	X	X	X	X	X	X	S	C	S
Wall Color Mode	BBM	X	O	X	X	X	X	X	X	B	B	M
Off = 0		X	O	X	X	X	X	X	X	B	B	M
Whiteboard = 1		X	O	X	X	X	X	X	X	B	B	M
Beige = 2		X	O	X	X	X	X	X	X	B	B	M
Gray = 3		X	O	X	X	X	X	X	X	B	B	M
Blackboard(Green) = 4		X	O	X	X	X	X	X	X	B	B	M
Default		X	O	X	X	X	X	X	X	B	B	M
3D Projection	DPJ	X	O	X	X	X	X	X	X	D	P	J
Off = 0		X	O	X	X	X	X	X	X	D	P	J
On = 1		X	O	X	X	X	X	X	X	D	P	J
Default		X	O	X	X	X	X	X	X	D	P	J
3D LR Reverse	LRR	X	O	X	X	X	X	X	X	L	R	R
Normal = 0		X	O	X	X	X	X	X	X	L	R	R
Reverse = 1		X	O	X	X	X	X	X	X	L	R	R
Default		X	O	X	X	X	X	X	X	L	R	R
3D Format	TDF	X	O	X	X	X	X	X	X	T	D	F
Auto = 0		X	O	X	X	X	X	X	X	T	D	F
Frame sequential = 1		X	O	X	X	X	X	X	X	T	D	F
Side by Side = 2		X	O	X	X	X	X	X	X	T	D	F
Top and Bottom = 3		X	O	X	X	X	X	X	X	T	D	F
Frame Packing = 4		X	O	X	X	X	X	X	X	T	D	F
Default		X	O	X	X	X	X	X	X	T	D	F





