

SONY®

VIDEO PROJECTOR

PROTOCOL MANUAL
(SUPPORTED COMMAND LIST)
1st Edition (Revised 5)

⚠ 警告

このマニュアルは、サービス専用です。
お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。
危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

⚠ WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

Table of Contents

Related manuals T-2 (E)

1. Overview 1 (E)

2. Correspondence of ADCP Command in Each Projector Model

2-1. System Command 2 (E)

2-1-1. Command Type: sys_sel 2 (E)

2-1-2. Command Type: sys_stat 4 (E)

2-1-3. Command Type: sys_var 7 (E)

2-2. Menu Command 8 (E)

2-2-1. Command Type: menu_sel/menu_val/
menu_exec 8 (E)

2-3. Remote Controller Key Command 18 (E)

2-3-1. Command Type: key 18 (E)

2-4. Advanced Adjustment Command 22 (E)

2-4-1. Command Type: panel_align_zone 22 (E)

2-4-2. Command Type: user_gamma 24 (E)

2-4-3. Command Type: pattern_sel/pattern_pos 26 (E)

3. Network Communication 28 (E)

4. Model List 29 (E)

Revision History

Related manuals

The following manual is provided for this unit in addition to this “Protocol Manual (SUPPORTED COMMAND LIST) ”.

- **“Protocol Manual” (COMMON) (available on request)**

This manual describes the basic configuration and operation to write the various commands to be used in the serial communication (RS-232C) and network communication for the projector.

1. Overview

This manual is a protocol and command correspondence list in each projector model.
For details of each protocol, refer to REMOTE CONTROL PROTOCOL MANUAL (COMMON) on separate sheet.

Protocol for each model

(○: supported (initial setting: ON), ●: supported (initial setting: OFF), –: unsupported)

Protocol	VPL-*** series (***) means model name)										Remarks	
	VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES		
SDAP	○	○	○	○	○	○	○	○	○	○	–	
ADCP	○	○	○	○	○	○	○	○	○	○	○	Initial setting of authentication during connection is also ON. For the individual command correspondence, refer to ADCP in Section 2.
PJLink	–	–	–	–	–	–	–	–	–	–	–	
DDDP (AMX Dynamic Device Discovery Protocol)	○	○	○	○	○	○	○	○	○	○	–	Function is always ON during serial connection.
SDDP (Control4 Simple Device Discovery Protocol)	○	○	○	○	○	○	○	○	○	○	–	You cannot start the system from the Control4-related device. Use the remote start.
CIP (Crestron Internet Protocol)	○	○	○	○	○	○	○	○	○	○	–	
SNMP (Simple Network Management Protocol)	○	–	–	–	–	–	–	–	–	–	–	

Other items for each model

(○: supported/–: not supported)

Protocol	VPL-*** series (***) means model name)										Remarks	
	VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES		
Ethernet terminal provided	○	○	○	○	○	○	○	○	○	○	–	
Standby mode menu setting item	–	–	–	–	–	–	–	–	–	–	–	Power consumption setting during the standby state If set to "Low", the network function cannot be used during the standby state. When performing the power ON/OFF and so on in the network connection, set this item to "standard".
Network management menu setting item	○	○	○	○	○	○	○	○	○	○	–	Menu setting item to set whether or not to always perform the communication with the projector control device in the environment where network is connected.
Serial transfer rate change service setting item	–	–	–	–	–	–	–	–	–	–	–	Setting of the transfer rate and bit format of the serial connection Tip When you want to change the setting, contact your local Sony Sales Office/Service Center.

2. Correspondence of ADCP Command in Each Projector Model

2-1. System Command

A system command can acquire the projector power operation and the power, error, or warning status. The type of a command is classified as follows:

- sys_sel command type: Sets the selected value for turning on and off the power.
- sys_stat command type: Acquires the status.
- sys_var command type: Sets the network address.



2-1-1. Command Type: sys_sel

By optional designation, the command of a sys_sel command type can set values and acquire values, settable choices, and command information.



Command name command
Value to be set txt_param1
Settable choice txt_param1, txt_param2

In the case described above, commands conform to the formats below, respectively.



Setting of value

Transmitting example: command "txt_param1"  Sets the selected value using a command. The selected value is enclosed with double quotation marks (" ").
Returning example: ok 



Inquiry of value:

Transmitting example: command ?  Acquires the selected value of the set parameter.
Returning example: "txt_param1"  The selected value that has been set is returned with the value being enclosed in double quotation marks (" ").

Inquiry of value range:

Transmitting example: command ? --range  Acquires a list of parameter-selected values that can be set.
Returning example: ["txt_param1", "txt_param2"] 

Inquiry of command information:

Transmitting example: command ? --info  Acquires the command information.
Returning example: { "type": "sys_sel", "version": "1.0", "range": ["txt_param1", "txt_param2"] } 
A command type, command version, and a list of selected values that can be set using a command are returned as command information.

1. Command list

Function	Command	Parameter/response	Remarks	VPL-*** series (***) means model name)									
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES
Power on/off operation	power*1	"on"	Power on operation	○	○	○	○	○	○	○	○	○	○
		"off"	Power off operation	○	○	○	○	○	○	○	○	○	○
IPv4 network setting	ipv4_network_setting*2	"start"	Setting start	○	○	○	○	○	○	○	○	○	-
		"apply"	Setting reflection	○	○	○	○	○	○	○	○	○	○
IPv4 address setting method Setting/acquisition	ipv4_set_method ipv4_set_method ?	"auto"	Auto	○	○	○	○	○	○	○	○	○	-
		"manual"	Manual*3	○	○	○	○	○	○	○	○	○	-
Maintenance complete	complete_maintenance	"lamp"	Lamp	-	-	○	○	○	○	○	○	-	○
		"filter"	Filter	-	-	-	-	-	-	-	-	-	○

*1: A value cannot be acquired. Use the power_status ? command of a sys_stat command type when acquiring the power state.

2. Command example

```
power "on" ↵
ok ↵
```

*2: During network setting, set an address after sending "start". Then, send "apply" and reflect the setting.

Example

```
ipv4_network_setting "start" ↵
ipv4_set_method "auto" ↵
ipv4_network_setting "apply" ↵
```

*3: Set each address using the network setting command of a sys_var command category when selecting "manual". Then, send "apply" and reflect the setting.

Example

```
ipv4_network_setting "start" ↵
ipv4_set_method "manual" ↵
ipv4_ip_address "XXX.XXX.XXX.XXX" ↵
ipv4_sub_net_mask "XXX.XXX.XXX.XXX" ↵
ipv4_default_gateway "XXX.XXX.XXX.XXX" ↵
ipv4_network_setting "apply" ↵
```

2-1-2. Command Type: sys_stat


By optional designation, the command of a sys_stat command type can acquire values and command information.

Command name: In the case of “command”, the following format is used.


Acquisition of value:

Transmitting example: command ? 


The system status information is inquired.

Returning example: "txt_param" 

When the information of single system status is returned

["txt_param1", "txt_param2"] 

When using the command that handles multiple items in response, it is returned in the JSON array format.

[{"val1":100}, {"val2":200}] 

In the timer and version information, the name of each value and the JSON associative array of the value are returned in the array format.

Acquisition of command information:

Transmitting example: command ? --info 

The command information is inquired.

Returning example: {"type": "sys_stat", "version": "1.0"} 

1. Command list


Function	Command	Response	Remarks	VPL-*** series (***) means model name)											
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES		
Power status acquisition	power_status ?	"standby"	Standby	○	○	○	○	○	○	○	○	○	○	○	
		"startup"	Start up in progress	○	○	○	○	○	○	○	○	○	○	○	○
		"on"	Power on	○	○	○	○	○	○	○	○	○	○	○	○
		"cooling1"	Cooling 1	○	○	○	○	○	○	○	○	○	○	○	○
		"cooling2"	Cooling 2	○	○	○	○	○	○	○	○	○	○	○	○
Error status acquisition	error ?	Example) ["err_power", "err_fan"]	The JSON array data of a factor is as follows:												
		"no_err"	No error	○	○	○	○	○	○	○	○	○	○	○	○
		"err_power"	Main power supply error	○	○	○	○	○	○	○	○	○	○	○	○
		"err_power2"	DC power supply or NAND error	○	○	○	○	○	○	○	○	○	○	○	○
		"err_cover"	Cover error	–	○	○	○	○	○	○	○	○	○	○	○
		"err_light_src"	Light-source error	○	○	○	○	○	○	○	○	○	○	○	○
		"err_lens_cover"	Top cover or lens shutter error	–	–	–	–	–	–	–	–	–	–	–	–
		"err_shock"	Drop shock error	○	○	–	–	–	–	–	○	–	–	–	–
		"err_nolens"	Lens not attached error	○	–	–	–	–	–	–	○	–	–	–	–
		"err_attitude"	Installation angle error	–	–	–	–	–	–	–	–	–	–	–	–
		"err_temp"	Temperature error	○	○	○	○	○	○	○	○	○	○	○	○
		"err_fan"	Fan error	○	○	○	○	○	○	○	○	○	○	○	○
		"err_wheel"	Wheel error	○	○	–	–	–	–	–	○	–	–	–	–
		"err_light_over"	Luminance error	○	○	–	–	–	–	–	○	–	–	–	–
"err_ballast_update"	Ballast updating error	–	–	–	○	○	–	–	–	–	–	–	–		
Warning status acquisition	warning ?	Example) ["warn_temp", "warn_signal_sel"]	The JSON array data of a factor is as follows:												
		"no_warn"	No error	○	○	○	○	○	○	○	○	○	○	○	○
		"warn_light_src_life"	Light-source error	–	–	○	○	○	○	○	○	–	○	○	○
		"warn_highland"	High altitude warning	○	○	○	○	○	○	○	○	○	○	○	○
		"warn_temp"	Temperature warning	○	○	○	○	○	○	○	○	○	○	○	○
		"warn_signal_freq"	Signal frequency warning	○	○	○	○	○	○	○	○	○	○	○	○
Timer acquisition	timer ?	Example)	JSON object array of each timer value	○	○	○	○	○	○	○	○	○	○	○	
		[{"operation":3400}, {"light_src":2300}, {"prev_light_src":3000}]													

Function	Command	Response	Remarks	VPL-*** series (***) means model name)											
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES		
Filter status acquisition	filter_status ?	"normal"	Maintenance is not required.	-	-	-	-	-	-	-	-	-	○	○	
		"clean"	Filter cleaning is required.	-	-	-	-	-	-	-	-	-	-	○	○
		"replace"	Filter replacement is required.	-	-	-	-	-	-	-	-	-	-	○	○
Model name acquisition	modelname ?	Example) "VPL-VW5000"	Model name	○	○	○	○	○	○	○	○	○	○	○	
Serial number acquisition	serialnum ?	Example) "50045"	Serial number	○	○	○	○	○	○	○	○	○	○	○	
Input signal status acquisition	signal ?	"Video60"	60 Hz Video signal	-	-	-	-	-	-	-	-	-	-	-	
		"Video50"	50 Hz Video signal	-	-	-	-	-	-	-	-	-	-	-	-
		"480_60i"	480/60i	-	-	-	-	-	-	-	-	-	-	-	-
		"576/50i"	576/50i	-	-	-	-	-	-	-	-	-	-	-	-
		"480/60p"	480/60p	○	○	○	○	○	○	○	○	○	○	○	○
		"576/50p"	576/50p	○	○	○	○	○	○	○	○	○	○	○	○
		"1080/60i"	1080/60i	○	○	○	○	○	○	○	○	○	○	○	○
		"1080/50i"	1080/50i	○	○	○	○	○	○	○	○	○	○	○	○
		"1080/24psF"	1080/24psF	-	-	-	-	-	-	-	-	-	-	-	-
		"720/60p"	720/60p	○	○	○	○	○	○	○	○	○	○	○	○
		"720/50P"	720/50P	○	○	○	○	○	○	○	○	○	○	○	○
		"1080/60p"	1080/60p	○	○	○	○	○	○	○	○	○	○	○	○
		"1080/50p"	1080/50p	○	○	○	○	○	○	○	○	○	○	○	○
		"1080/24p"	1080/24p	○	○	○	○	○	○	○	○	○	○	○	○
		"1080/30p"	1080/30p	-	-	-	-	-	-	-	-	-	-	-	-
		"640x350"	640 × 350	-	-	-	-	-	-	-	-	-	-	-	-
		"640x400"	640 × 400	-	-	-	-	-	-	-	-	-	-	-	-
		"640x480"	640 × 480	○	○	○	○	○	○	○	○	○	○	○	○
		"800x600"	800 × 600	○	○	○	○	○	○	○	○	○	○	○	○
		"832x624"	832 × 624	-	-	-	-	-	-	-	-	-	-	-	-
		"1024x768"	1024 × 768	○	○	○	○	○	○	○	○	○	○	○	○
		"1152x864"	1152 × 864	-	-	-	-	-	-	-	-	-	-	-	-
		"1152x900"	1152 × 900	-	-	-	-	-	-	-	-	-	-	-	-
		"1280x960"	1280 × 960	○	○	○	○	○	○	○	○	○	○	○	○
		"1280x1024"	1280 × 1024	○	○	○	○	○	○	○	○	○	○	○	○
		"1400x1050"	1400 × 1050	-	○	○	-	-	-	○	○	○	-	-	-
		"1600x1200"	1600 × 1200	-	-	-	-	-	-	-	-	-	-	-	-
		"1280x768"	1280 × 768	○	○	○	○	○	○	○	○	○	○	○	○
		"1280x720"	1280 × 720	-	-	-	-	-	-	-	-	-	-	-	-
		"1920x1080"	1920 × 1080	-	-	-	-	-	-	-	-	-	-	-	-
		"1920x1200"	1920 × 1200	-	-	-	-	-	-	-	-	-	-	-	-
		"1366x768"	1366 × 768	-	-	-	-	-	-	-	-	-	-	-	-
"1440x900"	1440 × 900	-	-	-	-	-	-	-	-	-	-	-	-		
"1680x1050"	1680 × 1050	-	-	-	-	-	-	-	-	-	-	-	-		
"1280x800"	1280 × 800	-	-	-	-	-	-	-	-	-	-	-	-		
"1600x900"	1600 × 900	-	-	-	-	-	-	-	-	-	-	-	-		
"2048x1080/24p"	2048 × 1080/24p	-	-	-	-	-	-	-	-	-	-	-	-		
"2048x1080/24psF"	2048 × 1080/24psF	-	-	-	-	-	-	-	-	-	-	-	-		
"3840x2160/60p"	3840 × 2160/60p	○	○	○	○	○	○	○	○	○	○	-	-		
"3840x2160/50p"	3840 × 2160/50p	○	○	○	○	○	○	○	○	○	○	-	-		

Function	Command	Response	Remarks	VPL-*** series (***) means model name)											
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES		
Input signal status acquisition	signal ?	"4096x2160/60p"	4096 × 2160/60p	○	○	○	○	○	○	○	○	○	-	-	
		"4096x2160/50p"	4096 × 2160/50p	○	○	○	○	○	○	○	○	○	○	-	-
		"4096x2160/30p"	4096 × 2160/30p	○	○	○	○	○	○	○	○	○	○	-	-
		"4096x2160/25p"	4096 × 2160/25p	○	○	○	○	○	○	○	○	○	○	-	-
		"3840x2160/24p"	3840 × 2160/24p	○	○	○	○	○	○	○	○	○	○	-	-
		"3840x2160/25p"	3840 × 2160/25p	○	○	○	○	○	○	○	○	○	○	-	-
		"3840x2160/30p"	3840 × 2160/30p	○	○	○	○	○	○	○	○	○	○	-	-
		"4096x2160/24p"	4096 × 2160/24p	○	○	○	○	○	○	○	○	○	○	-	-
		"4096x2160/120p"	4096 × 2160/120p	-	-	-	-	-	-	-	-	-	-	-	-
		"3840x2160/120p"	3840 × 2160/120p	-	-	-	-	-	-	-	-	-	-	-	-
		"4096x2160/100p"	4096 × 2160/100p	-	-	-	-	-	-	-	-	-	-	-	-
		"3840x2160/100p"	3840 × 2160/100p	-	-	-	-	-	-	-	-	-	-	-	-
"Invalid"	Unknown status	○	○	○	○	○	○	○	○	○	○	○	○	○	
Firmware version acquisition	version ?	Example) [{"main": "1.000"}, {"laser": "1.000"}]	Object array of each software version	○	○	○	○	○	○	○	○	○	○	○	
MAC address acquisition	mac_address ?	Example) "08-12-34-ab-cd-ef"	MAC address character string	○	○	○	○	○	○	○	○	○	○	-	
Valid license name acquisition	licenses ?		Format: JSON array of valid license name "<license_name>" Transmitting example) licenses ? Returning example) ["license_a", "license_b", "license_c"] Transmitting example) licenses ? --info Returning example) {"type": "sys_stat", "version": "1.0"}	○	-	-	-	-	-	-	-	-	-	-	
Acquisition of single display LCD panel resolution	panel_resolution ?		Format: Numeric array format of horizontal (x) and vertical (y) Example of acquisition [1920, 1080]	○	-	-	-	-	-	-	-	-	-	-	
IPv6 address acquisition	ipv6_ip_address ?		IPv6 address character string	○	○	○	○	○	○	○	○	○	○	-	
(IPv6) default gateway address acquisition	ipv6_default_gateway ?	Example) "2001:db8::1:0:0:1"	* For details of the notation, refer to RFC5952 "A Recommendation for IPv6 Address Text Representation".	○	○	○	○	○	○	○	○	○	○	-	
(IPv6) IP address prefix acquisition	ipv6_prefix ?	IPv6 prefix length Example) 64		○	○	○	○	○	○	○	○	○	○	-	
Temperature acquisition	temperature ?	Example) 30.0	Temperature	○	-	-	-	-	-	-	-	-	-	-	
3D status acquisition	3d_status ?	"2d"	2D	○	○	-	-	-	-	-	-	○	-	-	
		"3d"	3D	○	○	-	-	-	-	-	-	○	-	-	

2. Command example

power_status ? 


"standby" 


2-1-3. Command Type: sys_var

You can set and obtain the items of special value representation with the command of the “sys_var” command type.

Command name: In the case of “command”, the following format is used.


Setting of value:

Transmitting example: command "192.168.0.1" 


Returning example: ok 


Inquiry of value:

Transmitting example: command ? 

Returning example: "192.168.0.1" 

Inquiry of settable value range:

Transmitting example: command ? --range 


Returning example: {"min": "0.0.0.0", "max": "255.255.255.255"} 

1. System numeric command

Function	Command	Parameter/response	VPL-*** series (***) means model name)											
			VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES		
(IPv4) IP address setting/acquisition	ipv4_ip_address ipv4_ip_address ?	IPv4 address character string Example) "192.168.0.1"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	
(IPv4) subnet mask setting/acquisition	ipv4_sub_net_mask ipv4_sub_net_mask ?		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-
(IPv4) default gateway address setting/acquisition	ipv4_default_gateway ipv4_default_gateway ?		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-

2. Command example

ipv4_ip_address ? 

"192.168.0.1" 

2-2. Menu Command

2-2-1. Command Type: menu_sel/menu_val/menu_exec

By optional designation, the command of a menu_sel/menu_val/menu_exec command type can set and acquire menu values, and acquire command information.
Command name: In the case of “cmd”, the following format is used.

Command Type		Set		Reset	Query
		Direct	Relative		
menu_sel	Transmitting example	cmd "item"		cmd --reset	cmd ?
	Returning example	ok		ok	"item"
menu_num	Transmitting example	cmd 10	cmd --rel -1	cmd --reset	cmd ?
	Returning example	ok	ok	ok	10
menu_exec	Transmitting example	cmd	-	-	-
	Returning example	ok			

Command Type		Query	
		Range	Command info
menu_sel	Transmitting example	cmd ? --range	cmd ? --info
	Returning example	["item", "item2"]	{"type": "menu_sel", "version": "1.0", "range": ["item", "item2"]}
menu_num	Transmitting example	cmd ? --range	cmd ? --info
	Returning example	{"min": 0, "max": 10}	{"type": "menu_num", "version": "1.0", "range": {"min": 0, "max": 10}}
menu_exec	Transmitting example	-	cmd ? --info
	Returning example		{"type": "menu_exec", "version": "1.0"}


1. Command list


Remote control function command

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES	
Input terminal selection command	input	The following terminal names are used in all models.												menu_sel
		"hdm11"	HDMI terminal 1	○	○	○	○	○	○	○	○	○	○	
		"hdm12"	HDMI terminal 2	○	○	○	○	○	○	○	○	○	○	
		"hdm13"	HDMI terminal 3	-	-	-	-	-	-	-	○	-	-	
		"hdm14"	HDMI terminal 4	-	-	-	-	-	-	-	○	-	-	
		"dp1"	DP terminal 1	-	-	-	-	-	-	-	-	-	-	
		"dp2"	DP terminal 2	-	-	-	-	-	-	-	-	-	-	
		"dp3"	DP terminal 3	-	-	-	-	-	-	-	-	-	-	
		"dp4"	DP terminal 4	-	-	-	-	-	-	-	-	-	-	
		"dp1_2"	DP terminal 1/2	-	-	-	-	-	-	-	-	-	-	
"dp1_2_3_4"	DP terminal 1/2/3/4	-	-	-	-	-	-	-	-	-	-			
Video muting command	blank	"on"	ON	○	○	○	○	○	○	○	○	○		
		"off"	OFF	○	○	○	○	○	○	○	○	○		
Audio muting command	muting	"on"	ON	-	-	-	-	-	-	-	-	-		
		"off"	OFF	-	-	-	-	-	-	-	-	-		

Image quality setting function

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type	
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES		
Selection of picture preset	picture_mode	"cinema_film1"	Cinema film 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel	
		"cinema_film2"	Cinema film 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"reference"	Reference	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"tv"	TV	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"photo"	Photo	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"brt_cinema"	BRT cinema	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"brt_tv"	BRT TV	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"user"	User	-	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"user1"	User 1	<input type="radio"/>	-	-	-	-	-	-	-	-	-		-
		"user2"	User 2	<input type="radio"/>	-	-	-	-	-	-	-	-	-		-
		"user3"	User 3	<input type="radio"/>	-	-	-	-	-	-	-	-	-		-
		"cinema_digital"	Cinema digital	<input type="radio"/>	-	-	-	-	-	-	-	-	-		-
"game"	Game	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Resetting of preset mode adjustment being selected	picture_mode_reset		Execution of reset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_exec		
Adjustment of contrast	contrast	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_num		
Adjustment of brightness	brightness	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Adjustment of color depth	color	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Adjustment of hue	hue	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Adjustment of sharpness	sharpness	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Selection of color temperature	color_temp	"custom1"	Custom 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	menu_sel	
		"custom2"	Custom 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"custom3"	Custom 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"custom4"	Custom 4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"custom5"	Custom 5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"d93"	D93	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"d75"	D75	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"d65"	D65	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"d55"	D55	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
"dci"	DCI	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-			
Fine adjustment of custom color temperature Gain R	coltemp_gain_r	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_num		
Fine adjustment of custom color temperature Gain G	coltemp_gain_g	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Fine adjustment of custom color temperature Gain B	coltemp_gain_b	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Fine adjustment of custom color temperature Bias R	coltemp_bias_r	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Fine adjustment of custom color temperature Bias G	coltemp_bias_g	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Fine adjustment of custom color temperature Bias B	coltemp_bias_b	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Selection of brightness constant mode	constant_brt	"on"	ON	-	-	-	-	-	-	-	-	-	-	menu_sel	
		"off"	OFF	-	-	-	-	-	-	-	-	-	-		

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES	
Adjustment command of chromaticity X axis (Cyan-Red) of white	coltemp_x	<val>		○	○	-	-	-	-	-	○	-	-	menu_num
Adjustment command of chromaticity Y axis (Magenta-Green) of white	coltemp_y	<val>		○	○	-	-	-	-	-	○	-	-	
Selection of color space	color_space	"bt709"	BT709	○	○	○	○	○	○	○	○	○	○	menu_sel
		"bt2020"	BT2020	○	○	○	○	○	○	○	○	○	-	-
		"adobe_rgb"	Adobe RGB	○	-	-	-	-	-	-	-	-	-	-
		"color_space1"	Color space 1	○	○	○	○	○	○	○	○	○	○	○
		"color_space2"	Color space 2	○	○	○	○	○	○	○	○	○	○	○
		"color_space3"	Color space 3	○	○	○	○	○	○	○	○	○	○	○
		"custom"	Custom	-	○	○	○	○	○	○	○	○	○	-
		"custom1"	Custom 1	○	-	-	-	-	-	-	-	-	-	-
		"custom2"	Custom 2	○	-	-	-	-	-	-	-	-	-	-
Adjustment of chromaticity X axis (Cyan-Red) in color space	col_space_x	<val>	Specify the adjustment color from r/g/b with Suffix. Example) col_space_x --r 20 	○	○	○	○	○	○	○	○	○	○	menu_num
		<val>	The chromaticity X axis of R (red) in color space is set to 20.	○	○	○	○	○	○	○	○	○	○	
Selection of gamma correction mode	gamma_correction	"1.8"	1.8	○	○	○	○	○	○	○	○	○	-	menu_sel
		"2.0"	2.0	○	○	○	○	○	○	○	○	○	○	○
		"2.1"	2.1	○	○	○	○	○	○	○	○	○	○	-
		"2.2"	2.2	○	○	○	○	○	○	○	○	○	○	○
		"2.4"	2.4	○	○	○	○	○	○	○	○	○	○	○
		"2.6"	2.6	○	○	○	○	○	○	○	○	○	○	-
		"gamma7"	Gamma 7	○	○	○	○	○	○	○	○	○	○	-
		"gamma8"	Gamma 8	○	○	○	○	○	○	○	○	○	○	○
		"gamma9"	Gamma 9	○	○	○	○	○	○	○	○	○	○	○
		"gamma10"	Gamma 10	○	○	○	○	○	○	○	○	○	○	○
Selection of film mode	film_mode	"auto"	Auto	○	○	○	○	○	○	○	○	○	○	
		"off"	OFF	○	○	○	○	○	○	○	○	○	○	
Selection command of reality creation	real_cre	"on"	ON	○	○	○	○	○	○	○	○	○	○	
		"off"	OFF	○	○	○	○	○	○	○	○	○	○	
Selection data selection command of reality creation	real_cre_db	"mi4k"	MI4K	○	○	○	○	○	○	○	○	-	-	
		"normal"	Normal	○	○	○	○	○	○	○	○	○	-	-
Adjustment command of resolution of reality creation	real_cre_reso	<val>	Resolution	○	○	○	○	○	○	○	○	○	○	menu_num
Adjustment command of noise reduction of reality creation	real_cre_noise	<val>	Noise filtering	○	○	○	○	○	○	○	○	○	○	
Selection command of auto iris operation	iris_dyn_cont	"full"	Full	-	-	○	○	-	○	-	-	○	-	menu_sel
		"limited"	Limited	-	-	○	○	-	○	-	-	○	-	
		"off"	OFF	-	-	○	○	-	○	-	-	○	-	
Manual adjustment command of aperture amount of iris	iris_brightness	<val>		-	-	○	○	-	○	-	-	○	-	menu_num

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES	
Selection command of light source output dynamic control operation	light_output_dyn	"full"	Full	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel
		"limited"	Limited	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"on"	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Output adjustment command of light mode custom	light_output_val	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_num
Selection command of motion flow effect	motionflow	"smooth_high"	Smooth high	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel
		"smooth_low"	Smooth low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"impulse"	Impulse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"combination"	Combination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"true_cinema"	True cinema	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"impulse1"	Impulse 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"impulse2"	Impulse 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of noise reduction level	nr	"auto"	Auto	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"high"	High	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"mid"	Middle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"low"	Low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of MPEG NR	mnr	"auto"	Auto	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"high"	High	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"mid"	Middle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"low"	Low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of smooth gradation	smooth_grd	"high"	High	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"mid"	Middle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"low"	Low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of contrast enhancer effect	contrast_enh	"high"	High	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"mid"	Middle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"low"	Low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of color correction	col_correction	"on"	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Adjustment command of hue of color correction	col_corr_hue	<val>	Select the adjustment color from six colors (r/g/b/c/y/m) with Suffix. Example)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_num
Adjustment command of color depth of color correction	col_corr_color	<val>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Adjustment command of color brightness of color correction	col_corr_brt	<val>	col_corr_hue --r 20  Red is adjusted to 20.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of clear white	clear_white	"high"	High	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel
		"low"	Low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of x.v. Color operation	xvcolor	"on"	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of lag reduction	input_lag_red	"on"	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (** means model name)										Type
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES	
Save execution command of picture position	pic_pos_save	"1.85_1"	1.85_1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	menu_exec
		"2.35_1"	2.35_1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
		"custom1"	Custom 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
		"custom2"	Custom 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
		"custom3"	Custom 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
Deletion execution command of picture position	pic_pos_del	"1.85_1"	1.85_1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
		"2.35_1"	2.35_1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
		"custom1"	Custom 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
		"custom2"	Custom 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
		"custom3"	Custom 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
Selection command of picture position	pic_pos_sel	"1.85_1"	1.85_1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	menu_sel
		"2.35_1"	2.35_1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
		"custom1"	Custom 1	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
		"custom2"	Custom 2	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
		"custom3"	Custom 3	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	<input type="radio"/>	-	-	-	-	
Selection command of Wake up on LAN operation	remote_start	"on"	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	
Selection command of network management	network_mgmt	"on"	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of 2D-3D display	2d3d_sel	"auto"	Auto	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"3d"	3D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"2d"	2D	-	-	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of 3D format	3d_format	"sim3d"	SIM 3D	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"sidebyside"	Side by side	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"overunder"	Over under	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of 3D screen brightness	3d_brt	"high"	High	<input type="radio"/>	-	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	
		"standard"	Standard	<input type="radio"/>	-	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	
Selection command of 3D glasses brightness	3d_glass_brt	"high"	High	-	-	-	-	-	-	-	-	<input type="radio"/>	<input type="radio"/>	
		"mid"	Middle	-	-	-	-	-	-	-	-	<input type="radio"/>	<input type="radio"/>	
		"low"	Low	-	-	-	-	-	-	-	-	<input type="radio"/>	<input type="radio"/>	
Adjustment command of depth of 3D display except for simulated 3D	3d_depth	<val>	Range (-2 - +2)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_num	
Selection command of 3D effect during simulated 3D	sim3d_effect	"high"	High	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel
		"mid"	Middle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"low"	Low	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of test pattern display during adjustment	test_pattern	"on"	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-
Selection command of setting of setting lock	setting_lock	"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"level_a"	Level A	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"level_b"	Level B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection command of anamorphic lens type	anamorphic_lens	"1.24x"	1.24x	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	
		"1.32x"	1.32x	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type				
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES					
Selection command of trigger terminal function	trigger	"off"	OFF	○	○	○	○	○	○	○	○	○	○	○	○	○	○	menu_sel
		"power"	Power	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		"v_stretch"	V stretch	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		"2.35_1_zoom"	2.35_1 zoom	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		"3d"	3D	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Select the trigger terminal from port1/port2 with Suffix. Example) trigger --port1 "power" [↵] The PORT1 trigger terminal is set to the output terminal in the "power" state.																		
Selection command of lamp control	lamp_control	"high"	High	○	○	○	○	○	○	○	○	○	○	○	○	○	○	menu_sel
		"low"	Low	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Selection command of HDR	hdr	"auto"	Auto	○	○	○	○	○	○	○	○	○	○	○	○	○	○	menu_sel
		"on"	ON	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		"hdr10"	HDR10	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		"hdr_reference"	HDR Reference	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		"hlg"	HLG	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Selection command of blanking On/Off	blanking_enable	"on"	ON	○	○	○	○	○	○	○	○	○	○	○	○	○	○	menu_sel
		"off"	OFF	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Image shift adjustment command	image_shift	<val>		○	○	○	○	○	○	○	○	○	○	○	○	○	menu_num	
Adjust the image shift from h/v with Suffix. Example) image_shift --h "2" [↵] The image shift is adjusted by 2 in the horizontal direction.																		
Image shift ON/OFF section command	image_shift_enable	"on"	ON	○	○	○	○	○	○	○	○	○	○	○	○	○	○	menu_sel
		"off"	OFF	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Adjustment command of brightness of constant luminance mode	constant_brt_output	<val>		○	○	○	○	○	○	○	○	○	○	○	○	○	menu_num	
Selection command of NVG Off/Single/Dual	infrared	"on"	ON	○	○	○	○	○	○	○	○	○	○	○	○	○	○	menu_sel
		"off"	OFF	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		"single"	Single	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
		"dual"	Dual	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
Adjustment command of NVG output	infrared_output	<val>		○	○	○	○	○	○	○	○	○	○	○	○	○	menu_num	
Selection command of NVG neutral density filter	dimming_filter	"on"	ON	○	○	○	○	○	○	○	○	○	○	○	○	○	menu_sel	
		"off"	OFF	○	○	○	○	○	○	○	○	○	○	○	○	○		
Switching command of NVG laser bank	infrared_light_bank	<val>		○	○	○	○	○	○	○	○	○	○	○	○	○	menu_num	
Selection command of HDMI input/HDMI signal format	hdmi_signal_format	"standard"	Standard	○	○	○	○	○	○	○	○	○	○	○	○	○	menu_sel	
		"enhanced"	Enhanced	○	○	○	○	○	○	○	○	○	○	○	○	○		
		Select an input terminal from hdmi1 through hdmi4 with Suffix. Example) hdmi_signal_format --hdmi1 "enhanced" [↵] The HDMI signal format of the HDMI 1 terminal is set to "enhanced".																
Selection command of DisplayPort Stream Format	stream_format	"single"	Single	○	○	○	○	○	○	○	○	○	○	○	○	○	menu_sel	
		"dual"	Dual	○	○	○	○	○	○	○	○	○	○	○	○	○		
		"3d"	3D	○	○	○	○	○	○	○	○	○	○	○	○	○		
Select an input terminal from dp1 through dp4 and dp1/2/3/4 with Suffix. Example) stream_format --dp1 "dual" [↵] The stream format of the Display Port 1 terminal is set to "dual".																		

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type	
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES		
Selection command of periodic LD calibration	periodic_ld_calibration	"on"	ON	○	–	–	–	–	–	–	–	–	–	–	menu_sel
		"off"	OFF	○	–	–	–	–	–	–	–	–	–	–	
Activating a license	activate_licenses	Transmitting example) activate_licenses Returning example) ok Transmitting example) activate_licenses --info Returning example) {"type": "menu_exec", "version": "1.0"}		○	–	–	–	–	–	–	–	–	–	–	menu_exec
Adjustment command of light source coefficient (R/G/B/R+G channel)	light_output_coeff	<val>		○	–	–	–	–	–	–	–	–	–	–	menu_num

Screen setting function

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type	
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES		
Selection of video display aspect ratio	aspect	"normal"	Normal	○	○	○	○	○	○	○	○	○	○	○	menu_sel
		"v_stretch"	V stretch	○	○	○	○	○	○	○	○	○	○	○	
		"squeeze"	Squeeze	○	○	○	○	○	○	○	○	○	○	○	
		"1.85_1_zoom"	1.85_1 zoom	○	○	○	○	○	○	○	○	○	○	○	
		"2.35_1_zoom"	2.35_1 zoom	○	○	○	○	○	○	○	○	○	○	○	
		"stretch"	Stretch	○	○	○	○	○	○	○	○	○	○	○	


Function setting function

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES	
Illumination selection command	illumination	"on"	ON	–	–	–	–	–	–	–	○	–	–	menu_sel
		"off"	OFF	–	–	–	–	–	–	–	○	–	–	





Operation setting function

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES	
Selection of display language	language	"english"	English	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel
		"dutch"	Dutch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"french"	French	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"italian"	Italian	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"german"	German	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"spanish"	Spanish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"portuguese"	Portuguese	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"turkish"	Turkish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"polish"	Polish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"russian"	Russian	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"swedish"	Swedish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"norwegian"	Norwegian	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"japanese"	Japanese	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"chinese_s"	Simplified Chinese	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"chinese_t"	Traditional Chinese	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection of menu display position	menu_pos	"bottom_left"	Bottom left	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"center"	Center	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
Selection of screen display	status_disp	"on"	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
		"all_off"	All OFF	<input type="radio"/>	<input type="radio"/>	-	-	-	-	-	<input type="radio"/>	-	-	
Selection of remote control light receiving portion	ir_receiver	"front_rear"	Front rear	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	
		"front"	Front	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	
		"rear"	Rear	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	-	
Selection of remote control ID	remote_id	"all"	All	<input type="radio"/>	-	-	-	-	-	-	-	-	-	
		"1"	1	<input type="radio"/>	-	-	-	-	-	-	-	-	-	
		"2"	2	<input type="radio"/>	-	-	-	-	-	-	-	-	-	
		"3"	3	<input type="radio"/>	-	-	-	-	-	-	-	-	-	
		"4"	4	<input type="radio"/>	-	-	-	-	-	-	-	-	-	
Lens control lock selection command	lens_lock	"on"	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	-	-

Connection/power setting function

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES	
Selection of auto power saving (no signal)	powsave_nosig	"standby"	Standby	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection of digital input dynamic range	dynamic_range	"auto"	Auto	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"limited"	Limited	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"full"	Full	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		Select an input terminal from hdmi1/hdmi2/hdmi3/hdmi4 with Suffix. Example) dynamic_range --hdmi1 "full"  The digital input dynamic range of the HDMI terminal is set to "full".												

Installation setting function

Function	Command	Selected value/ numeric value	Remarks	VPL-*** series (***) means model name)										Type
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES	
Selection of image flip	image_flip	"hv"	HV	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel
		"h"	H	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"v"	V	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"auto"	Auto	-	-	-	-	-	-	-	-	-	-	
Adjustment of blanking	blanking	<val>	Blanking Select the adjustment position from top/bottom/ left/right with Suffix. Example) blanking --top 10  The upper side of blanking is set to 10.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_num
Color matching (brightness) adjustment	color_matching_brt	<val>	Specify the adjustment level with Suffix: --lev1 (level 1) to --lev6 (level 6).	<input type="radio"/>	-	-	-	-	-	-	-	-		
Color matching (color) R adjustment	color_matching_r	<val>	Example) color_matching_brt --lev1 10  The brightness of color matching level 1 is set to 10.	<input type="radio"/>	-	-	-	-	-	-	-	-		
Color matching (color) B adjustment	color_matching_b	<val>		<input type="radio"/>	-	-	-	-	-	-	-	-	-	
Reset execution of whole color matching adjustment	color_matching_reset		Color matching reset	<input type="radio"/>	-	-	-	-	-	-	-	-	-	menu_exec
Adjustment of panel alignment (shift) R	panel_align_shift_adj_r	<val>	Select the shift direction from h (horizontal)/v (vertical) with Suffix.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_num
Adjustment of panel alignment (shift) B	panel_align_shift_adj_b	<val>	Example) panel_align_shift_adj_r --h 10  Panel alignment (shift) R is adjusted by 10 in the horizontal direction.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection of pattern color during the adjustment of panel alignment menu	panel_align_pattern	"rgb"	R/G/B	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel
		"rg"	R/G	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		"bg"	B/G	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Selection of ON/OFF of panel alignment adjustment	panel_alignment	"on"	Panel alignment ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel
		"off"	Panel alignment OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Execution of reset for overall panel alignment adjustment	panel_align_reset		Panel alignment Execution of reset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_exec
Selection of high altitude mode	high_alt_mode	"on"	ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	menu_sel
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Blending adjustment ON/OFF selection	blend_sw	"on"	ON	<input type="radio"/>	-	-	-	-	-	-	-	-	-	menu_sel
		"off"	OFF	<input type="radio"/>	-	-	-	-	-	-	-	-	-	
		Select the blending adjustment position from top/bottom/left/right with Suffix. Example) blend_sw --top "on"  The upper side of blending is set to "on".			<input type="radio"/>	-	-	-	-	-	-	-	-	

Function	Command	Selected value/numeric value	Remarks	VPL-*** series (***) means model name)										Type	
				VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES		
Blending area correction gamma curve mode selection	blend_gamma	"1.8"	1.8	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	menu_sel
		"1.9"	1.9	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"2.0"	2.0	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"2.1"	2.1	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"2.2"	2.2	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"2.3"	2.3	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"2.4"	2.4	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"2.5"	2.5	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"2.6"	2.6	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
Select the gamma curve adjustment position from top/bottom/left/right with Suffix. Example) blend_gamma --top "2.1" <input type="button" value="↵"/>															
The upper side of the gamma curve is set to "2.1".															
Blending start position adjustment	blend_start	<val>		<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		Select the blending adjustment start position from top/bottom/left/right with Suffix. Example) blend_start --top 10 <input type="button" value="↵"/>													
The blending adjustment start position is set to 10 from the top of the screen.															
Blending adjusting width adjustment	blend_width	<val>		<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		Select the blending adjustment width from top/bottom/left/right with Suffix. Example) blend_width --top 10 <input type="button" value="↵"/>													
The blending adjustment width is set to 10 from the top of the screen.															
Execution of blending black level adjustment reset	blend_bk_level_reset			<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	menu_exec
Execution of blending adjustment reset	blend_reset			<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
Pattern (marker) display during blending adjust- ment	blend_cursor	"on"	ON	-	-	-	-	-	-	-	-	-	-	-	menu_sel
		"off"	OFF	-	-	-	-	-	-	-	-	-	-	-	
Pattern (marker) color selection during blending adjustment	blend_cursor_color	"r"	R	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"g"	G	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"b"	B	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"c"	C	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"m"	M	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
		"y"	Y	<input type="radio"/>	-	-	-	-	-	-	-	-	-	-	
Select the pattern (marker) color during adjustment from start/end with Suffix. Example) blend_cursor_color --start "g" <input type="button" value="↵"/>															
The start marker color during blending adjustment is set to G (green).															

2. Command example

(Classification is specified using menu_sel command Suffix.)

Setting of value

Transmitting example: `command --suffix "txt_param1" [↵]` Sets the selected value of a parameter.

Returning example: `ok [↵]`

Inquiry of value:

Transmitting example: `command --suffix ? [↵]` Acquires the selected value of a parameter that has been set.

Returning example: `"txt_param1" [↵]`

Inquiry of value range:

Transmitting example: `command --suffix ? --range [↵]` Acquires a list of parameter-selected values that can be set.

Returning example: `["txt_param1", "txt_param2"] [↵]`

Inquiry of command information:

Transmitting example: `command --suffix ? --info [↵]` Acquires the command information.

Returning example: `{"type": "sys_sel", "version": "1.0", "range": ["txt_param1", "txt_param2"]} [↵]`

A command category, command version and a list of parameter-selected values that can be set using a command are returned as command information.

2-3. Remote Controller Key Command

2-3-1. Command Type: key

1. Command list

Function	Command	Parameter	Remarks
Pressing of remote control key	key	Refer to next page in a key code list.	-

2. Command example

`key "menu" [↵]` Description: Press the MENU key.

`ok [↵]`

Key code list

Key code	Function	VPL-*** series (***) means model name)									
		VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES
"power_on"	Power ON	○	○	○	○	○	○	○	○	○	○
"power_off"	Power OFF	○	○	○	○	○	○	○	○	○	○
"power"	Power toggle	○	○	○	○	○	○	○	○	○	○
"video"	Video	-	-	-	-	-	-	-	-	-	-
"input_a"	Input A	○	○	○	○	○	○	○	○	○	○
"input_b"	Input B	○	○	○	○	○	○	○	○	○	○
"input_c"	Input C	-	-	-	-	-	-	-	○	-	-
"input_d"	Input D	-	-	-	-	-	-	-	○	-	-
"input_e"	Input E	-	-	-	-	-	-	-	-	-	-
"input_f"	Input F	-	-	-	-	-	-	-	-	-	-
"input"	Input toggle	○	○	○	○	○	○	○	○	○	○
"blank"	Video muting	○	○	○	○	○	○	○	○	○	○
"muting"	Audio muting	-	-	-	-	-	-	-	-	-	-
"vol+"	Volume +	-	-	-	-	-	-	-	-	-	-
"vol-"	Volume -	-	-	-	-	-	-	-	-	-	-
"menu"	Menu	○	○	○	○	○	○	○	○	○	○
"right"	Cursor [→]	○	○	○	○	○	○	○	○	○	○
"left"	Cursor [←]	○	○	○	○	○	○	○	○	○	○
"up"	Cursor [↑]	○	○	○	○	○	○	○	○	○	○
"down"	Cursor [↓]	○	○	○	○	○	○	○	○	○	○
"enter"	Enter	○	○	○	○	○	○	○	○	○	○
"reset"	Reset	○	○	○	○	○	○	○	○	○	○
"picmode1"	Picture preset Bright TV	○	○	○	○	○	○	○	○	○	○
"picmode2"	Picture preset TV	○	○	○	○	○	○	○	○	○	○
"picmode3"	Picture preset Cinema film 1	○	○	○	○	○	○	○	○	○	○
"picmode4"	Picture preset User	○	○	○	○	○	○	○	○	○	○
"picmode5"	Picture preset Reference	○	○	○	○	○	○	○	○	○	○
"picmode6"	Picture preset Game	○	○	○	○	○	○	○	○	○	○
"picmode7"	Picture preset Photograph	○	○	○	○	○	○	○	○	○	○
"picmode8"	Picture preset Cinema film 2	○	○	○	○	○	○	○	○	○	○
"picmode9"	Picture preset Bright cinema	○	○	○	○	○	○	○	○	○	○
"picmode"	Picture preset toggle	○	○	○	○	○	○	○	○	○	○
"picture+"	Contrast +	○	○	○	○	○	○	○	○	○	○
"picture-"	Contrast -	○	○	○	○	○	○	○	○	○	○
"color+"	Color depth +	○	○	○	○	○	○	○	○	○	○
"color-"	Color depth -	○	○	○	○	○	○	○	○	○	○
"bright+"	Brightness +	○	○	○	○	○	○	○	○	○	○
"bright-"	Brightness -	○	○	○	○	○	○	○	○	○	○
"hue+"	Hue +	○	○	○	○	○	○	○	○	○	○
"hue-"	Hue -	○	○	○	○	○	○	○	○	○	○
"sharpness+"	Sharpness +	○	○	○	○	○	○	○	○	○	○
"sharpness-"	Sharpness -	○	○	○	○	○	○	○	○	○	○
"color_temp"	Color temperature toggle	○	○	○	○	○	○	○	○	○	○
"color_mode"	Color space toggle	○	○	○	○	○	○	○	○	○	○
"black_level"	Contrast enhancer toggle	○	○	○	○	○	○	○	○	○	○

Key code	Function	VPL-*** series (***) means model name)									
		VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES
"reality_creation"	Reality creation	○	○	○	○	○	○	○	○	○	○
"laser_brightness+"	Laser dimming +	○	○	-	-	-	-	-	○	-	-
"laser_brightness-"	Laser dimming -	○	○	-	-	-	-	-	○	-	-
"iris_mode"	Light source dynamic control toggle	○	-	○	○	-	○	-	○	○	-
"motionflow"	Motion enhancer toggle	○	○	○	○	○	○	○	○	○	○
"black_insertion"	Film projection toggle	-	-	-	-	-	-	-	-	-	-
"noise_reduction"	NR toggle	-	-	-	-	-	-	-	-	-	-
"gamma_correction"	Gamma correction toggle	○	○	○	○	○	○	○	○	○	○
"color_correction"	Color correction	○	○	○	○	○	○	○	○	○	○
"aspect"	ASPECT	○	○	○	○	○	○	○	○	○	○
"aspect_widezoom"	Wide mode Wide zoom	-	-	-	-	-	-	-	-	-	-
"aspect_full1"	Wide mode Full 1	-	-	-	-	-	-	-	-	-	-
"aspect_full2"	Wide mode Full 2	-	-	-	-	-	-	-	-	-	-
"aspect_normal"	Wide mode Normal	○	○	○	○	○	○	○	○	○	○
"aspect_full"	Wide mode Full	-	-	-	-	-	-	-	-	-	-
"aspect_zoom"	Wide mode Zoom	-	-	-	-	-	-	-	-	-	-
"aspect_v_stretch"	Wide mode Anamorphic zoom	○	○	○	○	○	○	○	-	○	○
"aspect_1.85_1_zoom"	Wide mode 1.85:1 zoom	○	○	○	○	○	○	○	○	-	-
"aspect_2.35_1_zoom"	Wide mode 2.35:1 zoom	○	○	○	○	○	○	○	○	-	-
"aspect_stretch"	Wide mode Stretch	○	○	○	○	○	○	○	○	○	○
"aspect_squeeze"	Wide mode Anamorphic squeeze	○	○	○	○	○	○	○	-	○	○
"video_size"	Pitch	-	-	-	-	-	-	-	-	-	-
"video_shift"	Shift	-	-	-	-	-	-	-	-	-	-
"status_on"	Screen display ON	○	○	○	○	○	○	○	○	○	○
"status_off"	Screen display OFF	○	○	○	○	○	○	○	○	○	○
"lens_control"	Lens toggle	○	○	○	○	-	○	○	○	-	-
"lens_focus"	Lens focus	○	○	○	○	○	○	○	○	-	-
"lens_focus_far"	Lens focus far	○	○	○	○	○	○	○	○	-	-
"lens_focus_near"	Lens focus near	○	○	○	○	○	○	○	○	-	-
"lens_zoom"	Lens zoom	○	○	○	○	○	○	○	○	-	-
"lens_zoom_up"	Lens zoom +	○	○	○	○	○	○	○	○	-	-
"lens_zoom_down"	Lens zoom -	○	○	○	○	○	○	○	○	-	-
"lens_shift"	Lens shift	○	○	○	○	○	○	○	○	-	-
"lens_shift_up"	Lens shift up	○	○	○	○	○	○	○	○	-	-
"lens_shift_down"	Lens shift down	○	○	○	○	○	○	○	○	-	-
"lens_shift_left"	Lens shift left	○	○	○	○	○	○	○	○	-	-
"lens_shift_right"	Lens shift right	○	○	○	○	○	○	○	○	-	-
"lens_position"	Picture position	○	○	○	○	-	○	-	-	-	-
"lens_position1"	Accesses the picture position 1.	○	○	○	○	-	○	-	-	-	-
"lens_position2"	Accesses the picture position 2.	○	○	○	○	-	○	-	-	-	-
"lens_position3"	Accesses the picture position 3.	○	○	○	○	-	○	-	-	-	-
"lens_position4"	Accesses the picture position 4.	○	○	○	○	-	○	-	-	-	-
"lens_position5"	Accesses the picture position 5.	○	○	○	○	-	○	-	-	-	-

Key code	Function	VPL-*** series (***) means model name)									
		VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES
"lens_precise_adj"	Flange back correction	○	-	-	-	-	-	-	○	-	-
"lens_precise_adj_far"	Flange back correction +	-	-	-	-	-	-	-	○	-	-
"lens_precise_adj_near"	Flange back correction -	-	-	-	-	-	-	-	○	-	-
"pattern"	Test pattern	-	-	-	-	○	-	-	-	○	○
"3d"	3D setting	○	○	○	○	○	○	○	○	○	○
"2d_3d_display_select"	2D-3D display selection toggle	○	○	○	○	○	○	○	○	○	○
"2d_3d_display_select_auto"	2D-3D display selection Auto	○	○	○	○	○	○	○	○	○	○
"2d_3d_display_select_3d"	2D-3D display selection 3D	○	○	○	○	○	○	○	○	○	○
"2d_3d_display_select_2d"	2D-3D display selection 2D	-	-	○	○	○	○	○	○	○	○
"3d_format"	3D format toggle	○	○	○	○	○	○	○	○	○	○
"3d_format_simulated_3d"	3D format Simulated 3D	○	○	○	○	○	○	○	○	○	○
"3d_format_side_by_side"	3D format Right/left division system	○	○	○	○	○	○	○	○	○	○
"3d_format_over_under"	3D format Upper/lower division system	○	○	○	○	○	○	○	○	○	○
"3d_glasses_brightness"	3D glasses brightness toggle	-	-	-	-	-	-	-	-	○	○
"3d_glasses_brightness_high"	3D glasses brightness High	-	-	-	-	-	-	-	-	○	○
"3d_glasses_brightness_middle"	3D glasses brightness Middle	-	-	-	-	-	-	-	-	○	○
"3d_glasses_brightness_low"	3D glasses brightness Low	-	-	-	-	-	-	-	-	○	○
"3d_glass_brightness+"	3D glasses brightness +	-	-	-	-	-	-	-	-	-	-
"3d_glass_brightness--"	3D glasses brightness -	-	-	-	-	-	-	-	-	-	-
"3d_brightness"	Toggle of 3D brightness	○	-	○	○	○	○	○	-	-	-
"3d_brightness_high"	3D brightness Bright	○	-	○	○	○	○	○	-	-	-
"3d_brightness_standard"	3D brightness Dark	○	-	○	○	○	○	○	-	-	-
"simulated_3d_effect"	Simulated 3D effect toggle	○	○	○	○	○	○	○	○	○	○
"simulated_3d_effect_high"	Simulated 3D effect High	○	○	○	○	○	○	○	○	○	○
"simulated_3d_effect_middle"	Simulated 3D effect Middle	○	○	○	○	○	○	○	○	○	○
"simulated_3d_effect_low"	Simulated 3D effect Low	○	○	○	○	○	○	○	○	○	○
"3d_depth+"	3D depth adjustment +	○	○	○	○	○	○	○	○	○	○
"3d_depth--"	3D depth adjustment -	○	○	○	○	○	○	○	○	○	○

2-4. Advanced Adjustment Command









The following is the ADCP command correspondence list to be used for the advanced adjustment for the experts.
The type of a command is classified as follows.

Adjustment command type for experts

Command type	Function	VPL-*** series (*** means model name)									
		VW5000	VW760ES	VW675ES	VW665ES	VW365ES	VW360ES	VW260ES	VZ1000	HW65ES	HW45ES
panel_align_zone	Used in the panel alignment zone adjustment	○	○	–	–	–	–	–	○	–	–
user_gamma	Used in the gamma table adjustment	○	–	–	–	–	–	–	–	–	–
pattern_sel/pattern_pos	Displays the adjustment test pattern for experts	○	○	–	–	–	–	–	○	–	–

2-4-1. Command Type: panel_align_zone

By optional designation, the command of a panel_align_zone command type can transmit, reflect and acquire the panel alignment zone adjustment values, and acquire the command information.
For example, the following formats are used.

Transmission of value											
After transmitting the adjustment value for the panel alignment zone adjustment point, the value is reflected on the image by transmitting the reflection command. The format of range and value is described as the JSON array data.											
Direct value											
Transmitting example:	panel_align_zone [1,2] --pos=[1,2,3,4] --ch=r 										
Sets all adjustment points of red channel to the value (x, y) = [1, 2] in the range from the upper left (x=1, y=2) to the lower right (x=3, y=4) on the coordinate of the panel alignment zone adjustment point. Specifies red (--ch=r) or blue (--ch=b) as the panel alignment zone adjustment channel.											
Returning example:	ok 										
Relative value											
Transmitting example:	panel_align_zone --rel=[1,2] --pos=[1,2,3,4] --ch=r 										
Adds (x, y)=[1, 2] to all adjustment values of adjustment points in the range from the upper left (x=1, y=2) to the lower right (x=3, y=4) on the coordinate of the panel alignment zone adjustment point.											
Returning example:	ok 										
Table value											
Transmitting example:	panel_align_zone [[1,2],[3,4],[5,6],[7,8]] --pos=[1,1,2,2] --ch=r 										
Sets the adjustment points of red channel respectively as follows in the range from the upper left (x=1, y=1) to the lower right (x=2, y=2) on the coordinate of the panel alignment zone adjustment point.											
	<table border="0"> <thead> <tr> <th>Coordinate of adjustment point (x, y)</th> <th>Adjustment value [x, y]</th> </tr> </thead> <tbody> <tr> <td>(1, 1)</td> <td>→ [1, 2]</td> </tr> <tr> <td>(2, 1)</td> <td>→ [3, 4]</td> </tr> <tr> <td>(1, 2)</td> <td>→ [5, 6]</td> </tr> <tr> <td>(2, 2)</td> <td>→ [7, 8]</td> </tr> </tbody> </table>	Coordinate of adjustment point (x, y)	Adjustment value [x, y]	(1, 1)	→ [1, 2]	(2, 1)	→ [3, 4]	(1, 2)	→ [5, 6]	(2, 2)	→ [7, 8]
Coordinate of adjustment point (x, y)	Adjustment value [x, y]										
(1, 1)	→ [1, 2]										
(2, 1)	→ [3, 4]										
(1, 2)	→ [5, 6]										
(2, 2)	→ [7, 8]										
Returning example:	ok 										
Reset value											
Transmitting example:	panel_align_zone --reset --pos=[1,1,16,10] --ch=r 										
Sets all adjustment points to the initial value in the range from the upper left (x=1, y=1) to the lower right (x=64, y=40) on the coordinate of the panel alignment zone adjustment point.											
Returning example:	ok 										

Reflection of value

Reflects the transmitted panel alignment zone adjustment value on the screen.

Transmitting example: `panel_align_zone --apply`

Returning example: `ok`

Acquisition of value

Transmitting example: `panel_align_zone ? --pos=[1,1,3,3] --ch=r`

Inquires the adjustment value of the adjustment points of red channel in the range from the upper left (1, 1) to the lower right (3, 3) as the coordinate (x, y) of the panel alignment zone adjustment point.

Returning example: `[[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0],[0,0]]`

Returns the panel alignment zone adjustment value of each adjustment point in the specified area in the JSON array format.

Acquisition of command information

Transmitting example: `panel_align_zone ? --info`

Inquires the command information.

Returning example: `{"type":"panel_align_zone","version":"1.0","range":{"pos":[1,1,16,10],"adj":[{"min":-20,"max":20,"step":1},{"min":-20,"max":20,"step":1}],"adj_step_per_dot":[10,10],"pos_pitch":[128,128],"pos_offset":[0,24],"ch":["r","b"]}}`

The following range information is returned as "range".

<code>pos</code>	Maximum specified range of adjustment point (upper left coordinate x, y to lower right coordinate x, y)
<code>adj</code>	Maximum adjustment range in the x-axis direction (minimum and maximum moving amount, step), y-axis direction (minimum and maximum moving amount, step)
<code>adj_step_per_dot</code>	Adjustment value (x, y) for moving 1 pixel on the screen
<code>pos_pitch</code>	Pixel pitch (x, y) of adjustment point on the screen
<code>pos_offset</code>	Offset pixel amount(x, y) of adjustment point (x, y=1, 1) from the upper left corner of the screen
<code>ch</code>	Choice of adjustment channel

2-4-2. Command Type: user_gamma

By optional designation, the command of a user_gamma command type can transmit, reflect and acquire the gamma curve adjustment values, and acquire the command information. For example, the following formats are used.

Transmission of value													
<p>After transmitting the adjustment value for the gamma curve adjustment point, the value is reflected on the image by transmitting the reflection command. The format of range and value is described as the JSON array data.</p> <p>Note For the gamma curve, it is required to set to the value that is "equal to or greater than" the adjustment value of all adjustment points located in the black side of the adjustment point.</p>													
Direct value													
Transmitting example:	<pre>user_gamma 0 --sel=gamma3 --pos=[0,63] --ch=r</pre> <p>Sets all adjustment points of red channel to the value "0" in the range from the adjustment point "0" to "63" of the gamma curve "gamma3". Specifies red (--ch=r), green (--ch=g) or blue (--ch=b) as the gamma curve adjustment channel.</p>												
Returning example:	ok												
Relative value													
Transmitting example:	<pre>user_gamma --rel=10 --sel=gamma4 --pos=[0,60] --ch=r</pre> <p>Adds "10" to all adjustment points of red channel in the range from the adjustment point "0" to "60" of the gamma curve "gamma4".</p>												
Returning example:	ok												
Table value													
Transmitting example:	<pre>user_gamma [1,2,3,4,5] --sel=gamma4 --pos=[0,4] --ch=g</pre> <p>Sets the adjustment points of green channel respectively as follows in the range from the adjustment point "0" to "4" of the gamma curve "gamma4".</p> <table border="1"> <thead> <tr> <th>Adjustment point</th> <th>Adjustment value</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>→ 1</td> </tr> <tr> <td>1</td> <td>→ 2</td> </tr> <tr> <td>2</td> <td>→ 3</td> </tr> <tr> <td>3</td> <td>→ 4</td> </tr> <tr> <td>4</td> <td>→ 5</td> </tr> </tbody> </table>	Adjustment point	Adjustment value	0	→ 1	1	→ 2	2	→ 3	3	→ 4	4	→ 5
Adjustment point	Adjustment value												
0	→ 1												
1	→ 2												
2	→ 3												
3	→ 4												
4	→ 5												
Returning example:	ok												
Reset value													
Transmitting example:	<pre>user_gamma --reset --sel=gamma3 --pos=[0,63] --ch=r</pre> <p>Sets all adjustment points of red channel to the initial value in the range from the adjustment point "0" to "63" of the gamma curve "gamma3".</p>												
Returning example:	ok												

Reflection of value

Reflects the transmitted gamma curve adjustment value on the screen.

Transmitting example: `user_gamma --apply`

Returning example: `ok`

Acquisition of value

Transmitting example: `user_gamma ? --sel=gamma3 --pos=[0,4] --ch="r"`
Inquires the adjustment points of red channel in the range from the adjustment point "0" to "4" of the gamma curve "gamma3".

Returning example: `[1, 2, 3, 4, 5]`
Returns the gamma curve adjustment value of each adjustment point in the specified area in the JSON array format.

Acquisition of command information

Transmitting example: `user_gamma ? --info`
Inquires the command information.

Returning example:

```
{ "type": "user_gamma", "version": "1.0",
  "sel": ["1.8", "2.0", "2.1", "2.2", "2.4", "2.6", "gamma7", "gamma8", "gamma9", "gamma10", "off"],
  "range": {
    "pos": { "min": 0, "max": 63 },
    "adj": { "min": 0, "max": 1023, "step": 1 },
    "ch": ["r", "g", "b"]
  } }
```


Returns the choice of gamma curve that can be adjusted as "sel".

The following range information is returned as "range".

pos Maximum specified range of adjustment point
adj Maximum adjustment range
ch Choice of adjustment channel

2-4-3. Command Type: pattern_sel/pattern_pos

The command of a pattern_sel_pattern_pos command type can display the test pattern for various adjustments.


Note

The menu display and the message display on the screen may not be displayed correctly while the test pattern is displayed.

Command name: In the case of “command”, the following command formats are used.

Command type		pattern_sel	pattern_pos (In the case of set coordinate=<x, <y> and coordinate range <x1><y1> to <x2>, <y2>)
Setting of value	Transmitting side	command "item1"	command [<x>, <y>]
	Returning side	ok	ok
Inquiry of value	Transmitting side	command ?	command ?
	Returning side	"item1"	[<x>, <y>]
Inquiry of value range	Transmitting side	command ? --range	command ? --range
	Returning side	["item1", "item2"]	[{"min":<x1>, "max":<x2>}, {"min":<y1>, "max":<y2>}]
Inquiry of command information	Transmitting side	command ? --info	command ? --info
	Returning side	{"type":"pattern_sel", "version":"1.0", "range":["item1", "item2"]}	{"type":"pattern_sel", "version":"1.0", "range":[{"min":<x1>, "max":<x2>}, {"min":<y1>, "max":<y2>}] }

1. Command list

Function	Command	Selected value/ numeric value	Remarks	VPL***series (** means model name)			Type
				VW5000	VW760ES	VZ1000	
Displays the cursor for blending adjustment.	pat_blend_cursor	"on" "off"	Specify the display position from top/bottom/left/right with Suffix. Example) pat_blend_cursor --top "on"  The cursor display on the upper portion of the screen is set to ON.	○	–	–	pattern_sel
Displays the flat field pattern for color space adjustment.	pat_color_space	"r" "g" "b" "w" "off"		○	–	–	
Displays the cursor in the panel alignment zone adjustment point.	pat_panel_align_zone_cursor	"rg" "bg" "rgb" "off"	When the display position is not specified, display the cursor in the adjustment point [1. 1].	○	○	○	
Displays the flat field pattern for color matching adjustment.	pat_color_matching	"lev1" "lev2" "lev3" "lev4" "lev5" "lev6" "off"		○	–	–	
Selection of test pattern drawing frame rate	pat_frame_rate	"60" "50" "24"	Applies this function to pat_color_space.	○	–	–	
Specifies whether to output the internal test pattern as the 3D video signal.	pat_3d_mode	"3d" "2d"	Applies this function to pat_color_space.	○	–	–	
Specifies the display position of the cursor for panel alignment zone adjustment.	pat_panel_align_zone_cursor_pos	[<x>, <y>]	Upper left of OSD (1, 1), left and upper "–", right and lower "+" Specify with the x, y coordinate of the adjustment point.	○	○	○	pattern_pos

3. Network Communication

The ports used in the unit are as shown below.

Protocol/function	Port No.	Service state at the factory	Setting change enabled/disabled	
			Service ON/OFF	Port No.
SDAP	UDP:53862	ON	Enabled	Enabled
ADCP	TCP:53595	ON	Enabled	Enabled
DDDP	UDP:9131	ON	Enabled	Disabled
SDDP	UDP:1902	ON	Disabled	Disabled
CIP	TCP:41794	ON	Disabled	Enabled

4. Model List

VPL-HW45ES Series

VPL-HW45ES
VPL-HW48

VPL-HW65ES Series

VPL-HW60ES
VPL-HW65ES
VPL-HW68

VPL-VW260ES Series

VPL-VW245
VPL-VW260ES
VPL-VW268
VPL-VW285ES

VPL-VW360ES Series

VPL-VW360ES
VPL-VW368
VPL-VW385ES

VPL-VW365ES Series

VPL-VW315ES
VPL-VW320ES
VPL-VW328
VPL-VW365ES

VPL-VW5000 Series

VPL-VW5000

VPL-VW665ES Series

VPL-VW515ES
VPL-VW520ES
VPL-VW528
VPL-VW665ES

VPL-VW675ES Series

VPL-VW535
VPL-VW550ES
VPL-VW558
VPL-VW675ES

VPL-VZ1000 Series

VPL-VZ1000

VPL-VW760ES Series

VPL-VW885ES
VPL-VW745
VPL-VW768
VPL-VW760ES

Note

Note that the model that is not listed in the above table is not supported even if it is the model in the product series

Revision History

Date	History	Contents
2016. 2	1st Edition 9-976-953-01	—
2016. 6	Revised-1 9-976-953-02	Added the models: VPL-HW45, VPL-HW48, VPL-HW60, VPL-HW65, VPL-HW68, VPL-VW315, VPL-VW320, VPL-VW328, VPL-VW365, VPL-VW515, VPL-VW520, VPL-VW528, and VPL-VW665
2016. 9	Revised-2 9-976-953-03	<p>• Modifications:</p> <ul style="list-style-type: none"> 1. Overview, 2-1-1. Command Type: sys_sel, 2-1-2. Command Type: sys_stat, 2-1-3. Command Type: sys_var, 2-2-1. Command Type: menu_sel/menu_val/menu_exec, 2-3-1. Command Type: key, 3. Network Communication 4. Model List <p>Added the models: VPL-VW535, VPL-VW550ES, VPL-VW558, VPL-VW675ES</p>
2017. 3	Revised-3 9-976-953-04	<p>• Modifications:</p> <ul style="list-style-type: none"> 1. Overview, 2-1-1. Command Type: sys_sel, 2-1-2. Command Type: sys_stat, 2-1-3. Command Type: sys_var, 2-2-1. Command Type: menu_sel/menu_val/menu_exec, 2-3-1. Command Type: key, 3. Network Communication 4. Model List <p>• Additions</p> <ul style="list-style-type: none"> 2-4. Pattern Command 2-5. Expert <PanelAlignment> Command <p>Added the models: VPL-VZ1000</p>
2017. 7	Revised-4 9-976-953-05	<p>• Modifications:</p> <ul style="list-style-type: none"> 1. Overview, 2-1-1. Command Type: sys_sel, 2-1-2. Command Type: sys_stat, 2-1-3. Command Type: sys_var, 2-2-1. Command Type: menu_sel/menu_val/menu_exec, 2-3-1. Command Type: key, 2-4. Advanced Adjustment Command 4. Model List <p>Added the models: VPL-VW360ES, VPL-VW368, VPL-VW385ES, VPL-VW245, VPL-VW260ES, VPL-VW268, and VPL-VW285ES</p>

Date	History	Contents
2017.10	Revised-5 9-976-953-06	<p>• Modifications:</p> <ul style="list-style-type: none"> 1. Overview, 2-1-1. Command Type: sys_sel, 2-1-2. Command Type: sys_stat, 2-1-3. Command Type: sys_var, 2-2-1. Command Type: menu_sel/menu_val/menu_exec, 2-3-1. Command Type: key, 2-4. Advanced Adjustment Command 2-4-3. Command Type: pattern_sel/pattern_pos 4. Model List <p>Added the models: VPL-VW760ES, VPL-VW885ES, VPL-VW745, VPL-VW768</p>

