

SONY®

DATA PROJECTOR

PROTOCOL MANUAL
(SUPPORTED COMMAND LIST)
1st Edition

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.

WARNING

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.

VPL-FHZ60/FH60 Series

VPL-FHZ65

VPL-FHZ60

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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 this unit.

1. Overview

This manual is a command correspondence list of ADCP protocols in each projector model.
For details of the ADCP protocols, refer to REMOTE CONTROL PROTOCOL MANUAL (COMMON).

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.

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.

Command list

Function	Command	Parameter/response	Remarks	VPL-	
				FHZ60 series	FH60 series
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	"auto"	Auto	○	○
	ipv4_set_method ?	"manual"	Manual ^{*3}	○	○
IPv4 DNS address setting method Setting/acquisition	ipv4_dns_set_method	"auto"	Auto	○	○
	ipv4_dns_set_method ?	"manual"	Manual ^{*3}	○	○

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

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_dns_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_dns_set_method "manual" ↵
ipv4_dns_server1 "XXX.XXX.XXX.XXX" ↵
ipv4_dns_server2 "XXX.XXX.XXX.XXX" ↵
ipv4_network_setting "apply" ↵
```


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: command ? 

Returning example: "txt_param" 

["txt_param1", "txt_param2"] 

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


The system status information is inquired.

When the information of single system status is returned

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

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 

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

The command information is inquired.

Command list

Function	Command	Response	Remarks	VPL-	
				FHZ60 series	FH60 series
Power status acquisition	power_status ?	"standby"	Standby	○	○
		"startup"	Start up in progress	○	○
		"on"	Power on	○	○
		"cooling1"	Cooling 1	○	○
		"cooling2"	Cooling 2	○	○
		"saving_cooling1"	Power saving cooling 1	○	○
		"saving_cooling2"	Power saving cooling 2	○	○
		"saving_standby"	Power saving standby	○	○
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"	Power supply error	○	○
		"err_power2"	Power supply (D5V) error	○	○
		"err_system2"	System error 2	○	○
		"err_cover"	Cover error	○	○
		"err_light_src"	Light-source error	○	○
		"err_lens_cover"	Lens cover error	—	—
		"err_shock"	Shock error	○	—
		"err_nolens"	Lens not attached error	○	○
		"err_attitude"	Installation angle error	○	○
		"err_temp"	Temperature error	○	○
		"err_fan"	Fan error	○	○
		"err_wheel"	Wheel rotation error	○	—
		"err_light_over"	Luminance error	○	—
		"err_assy"	Assembling error	○	○
		"err_lens_shift"	Lens shift error	○	○

Function	Command	Response	Remarks	VPL-	
				FHZ60 series	FH60 series
Warning status acquisition	warning ?	Example) ["warn_temp", "warn_signal_sel"]	The JSON array data of a factor is as follows:		
		"no_warn"	No warning	○	○
		"warn_light_src_life"	Light- source life warning	–	○
		"warn_highland"	Heights mode warning	○	○
		"warn_temp"	Temperature warning	○	○
		"warn_signal_freq"	Signal frequency warning	○	○
		"warn_signal_sel"	Signal type warning	○	○
Timer acquisition	timer ?	Example) [{"operation":3400}, {"light_src":2300}, {"prev_light_src":3000}]	JSON object array of each timer value	○	○
Filter status acquisition	filter_status ?	"normal"	Maintenance is not required.	○	○
		"clean"	Filter cleaning is required.	–	–
		"replace"	Filter replacement is required.	–	–
		"cleanup_step1"	Filter auto-cleaning is required. 1	○	○
		"cleanup_step2"	Filter auto-cleaning is required. 2	○	○
Model name acquisition	modelname ?	Example) "VPL-FHZ65"	Model name	○	○
Serial number acquisition	serialnum ?	Example) "012345678"	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"	640x350	○	○
		"640x400"	640x400	○	○
		"640x480"	640x480	○	○
		"800x600"	800x600	○	○
		"832x624"	832x624	○	○
		"1024x768"	1024x768	○	○
		"1152x864"	1152x864	○	○
		"1152x900"	1152x900	○	○

Function	Command	Response	Remarks	VPL-	
				FHZ60 series	FH60 series
Input signal status acquisition	signal ?	"1280x960"	1280x960	○	○
		"1280x1024"	1280x1024	○	○
		"1400x1050"	1400x1050	○	○
		"1600x1200"	1600x1200	○	○
		"1280x768"	1280x768	○	○
		"1280x720"	1280x720	○	○
		"1920x1080"	1920x1080	○	○
		"1920x1200"	1920x1200	○	○
		"1360x768"	1360x768	○	○
		"1440x900"	1440x900	○	○
		"1680x1050"	1680x1050	○	○
		"1280x800"	1280x800	○	○
		"1600x900"	1600x900	○	○
		"2048x1080/24p"	2048x1080/24p	—	—
		"2048x1080/24psF"	2048x1080/24psF	—	—
		"Invalid"	Unknown status	○	○
		"<H resolution> x <V resolution?"	Custom resolution	○	○
Firmware version acquisition	version ?	Example) [{"main": "1.10.0a"}, {"main_data": "01/01.01"}, {"sub": "1.01.0a"}, {"ext": "1.03.0a"}]]	Object array of each software version	○	○
MAC address acquisition	mac_address ?	Example) "08-12-34-ab-cd-ef"	MAC address character string	○	○
IPv6 address setting method acquisition	ipv6_set_method ?	"auto"	Auto	○	○
		"manual"	Manual	○	○
IPv6 DNS address setting method acquisition	ipv6_dns_set_method ?	"auto"	Auto	○	○
		"manual"	Manual	○	○
(IPv6) IP 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 Representation".		○	○
(IPv6) DNS1 address acquisition	ipv6_dns_server1 ?			○	○
(IPv6) DNS2 address acquisition	ipv6_dns_server2 ?			○	○
(IPv6) IP address prefix acquisition	ipv6_prefix ?	IPv6 prefix length Example) 64		○	○

Command example

```
power_status ?  
"standby"
```

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" }

System numeric command

Function	Command	Parameter/response	VPL-	
			FHZ60 series	FH60 series
(IPv4) IP address setting/acquisition	ipv4_ip_address ipv4_ip_address ?	IPv4 address character string Example) "192.168.0.1"	○	○
(IPv4) subnet mask setting/acquisition	ipv4_sub_net_mask ipv4_sub_net_mask ?		○	○
(IPv4) default gateway address setting/acquisition	ipv4_default_gateway ipv4_default_gateway ?		○	○
(IPv4) DNS1 address setting/acquisition	ipv4_dns_server1 ipv4_dns_server1 ?		○	○
(IPv4) DNS2 address setting/acquisition	ipv4_dns_server2 ipv4_dns_server2 ?		○	○

Command example

```
ipv4_ip_address ?  
"192.168.0.1"
```

Menu command

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"	{"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"}



Command list

Remote control function command

Function	Command	Selected value/ numeric value	Remarks	VPL-		Type
				FHZ60 series	FH60 series	
Input terminal selection command	input	The following terminal names are used in all models.				menu_sel
		"video1"	Video terminal 1	○ (Video)	○ (Video)	
		"svideo1"	S video terminal 1	—	—	
		"rgb1"	RGB terminal 1	○ (Input A)	○ (Input A)	
		"dvi1"	DVI terminal 1	○ (Input B)	○ (Input B)	
		"hdmi1"	HDMI terminal 1	○ (Input C)	○ (Input C)	
		"hdbaset1"	HDBaseT terminal 1	○ (Input D)	○ (Input D)	
Video muting command	blank	"on"	ON	○	○	
		"off"	OFF	○	○	
Audio muting command	muting	"on"	ON	○	○	
		"off"	OFF	○	○	
Freeze (pausing of screen) function selection command	freeze	"on"	ON	○	○	
		"off"	OFF	○	○	
Dual-screen mode function selection command	multi_screen	"on"	ON	○	○	
		"off"	OFF	○	○	

Image quality setting function

Function	Command	Selected value/numeric value	Remarks	VPL-		Type
				FHZ60 series	FH60 series	
Selection of image quality mode	picture_mode	"dynamic"	Dynamic	○	○	menu_sel
		"standard"	Standard	○	○	
		"brt_priority"	Brightness priority	○	○	
		"multi_screen"	Multi-screen	○	○	
Resetting of image quality mode adjustment being selected			Execution of reset	○	○	menu_exec
Adjustment of contrast		<val>		○	○	menu_num
Adjustment of brightness		<val>		○	○	
Adjustment of color depth	color	<val>		○	○	
Adjustment of hue	hue	<val>		○	○	
Adjustment of sharpness	sharpness	<val>		○	○	
Selection of color temperature	color_temp	"9300K"	9300K	○	○	menu_sel
		"7500K"	7500K	○	○	
		"6500K"	6500K	○	○	
		"brt_priority"	Brightness priority	○	○	
		"custom1"	Custom 1	○	○	
		"custom2"	Custom 2	○	○	
		"custom3"	Custom 3	○	○	
		"custom4"	Custom 4	○	○	
Fine adjustment of custom color temperature Gain R		<val>		○	○	menu_num
Fine adjustment of custom color temperature Gain G		<val>		○	○	
Fine adjustment of custom color temperature Gain B		<val>		○	○	
Fine adjustment of custom color temperature Bias R		<val>		○	○	
Fine adjustment of custom color temperature Bias G		<val>		○	○	
Fine adjustment of custom color temperature Bias B		<val>		○	○	
Selection of light source (light/lamp) mode		"high"	High	○	○	menu_sel
		"mid"	Standard	○	○	
		"custom"	Custom	○	○	
		"extended"	Long	○	—	
Adjustment of custom output in light source (light/lamp) mode	light_output_val	<val>	Light output	○	○	menu_num
Selection of brightness constant mode	constant_brt	"on"	ON	○	—	menu_sel
		"off"	OFF	○	—	

Function	Command	Selected value/numeric value	Remarks	VPL-		Type
				FHZ60 series	FH60 series	
Selection of light source dynamic mode	light_output_dyn	"on"	ON	○	—	menu_sel
		"off"	OFF	○	—	
Selection of color space	color_space	"custom1"	Custom 1	○	○	
		"custom2"	Custom 2	○	○	
		"custom3"	Custom 3	○	○	
		"custom4"	Custom 4	○	○	
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
Adjustment of chromaticity Y axis (Magenta-Green) in color space	col_space_y	<val>	The chromaticity X axis of R (red) in color space is set to 20.	○	○	
Selection of gamma mode	gamma_correction	"2.2"	2.2	○	○	menu_sel
		"2.4"	2.4	○	○	
		"gamma3"	Gamma 3	○	○	
		"gamma4"	Gamma 4	○	○	
		"dicom_sim"	DICOM GSDF Sim.	○	○	
Selection of film mode	film_mode	"auto"	Auto	○	○	
		"off"	OFF	○	○	
Selection command of reality creation	real_cre	"on"	ON	○	○	
		"off"	OFF	○	○	
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 contrast enhancer effect	contrast_enh	"high"	High	○	○	menu_sel
		"mid"	Middle	○	○	
		"low"	Low	○	○	
		"off"	OFF	○	○	
Selection command of color correction	col_correction	"on"	ON	○	○	
		"off"	OFF	○	○	
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) col_corr_hue --r 20 	○	○	menu_num
Adjustment command of Color depth of color correction	col_corr_color	<val>		○	○	
Adjustment command of color brightness of color correction	col_corr_brt	<val>	Red is adjusted to 20.	○	○	

Screen setting function

Function	Command	Selected value/numeric value	Remarks	VPL-		Type
				FHZ60 series	FH60 series	
Selection of video display aspect ratio	aspect	"4_3"	4:3	<input type="radio"/>	<input type="radio"/>	menu_sel
		"16_9"	16:9	<input type="radio"/>	<input type="radio"/>	
		"full1"	Full 1	<input type="radio"/>	<input type="radio"/>	
		"full2"	Full 2	<input type="radio"/>	<input type="radio"/>	
		"normal"	Normal	<input type="radio"/>	<input type="radio"/>	
		"full"	Full	<input type="radio"/>	<input type="radio"/>	
		"zoom"	Zoom	<input type="radio"/>	<input type="radio"/>	
Adjustment of V center	v_center	<val>	Screen position up and down	<input type="radio"/>	<input type="radio"/>	menu_num
Adjustment of V size	v_size	<val>	Vertical Size	<input type="radio"/>	<input type="radio"/>	
Selection of overscan	overscan	"on"	ON	<input type="radio"/>	<input type="radio"/>	menu_sel
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	
Execution of APA	apa_exec	—		<input type="radio"/>	<input type="radio"/>	menu_exec
Adjustment of video phase	pic_phase	<val>		<input type="radio"/>	<input type="radio"/>	menu_num
Adjustment of video pitch	pic_pitch	<val>		<input type="radio"/>	<input type="radio"/>	
Adjustment of video shift (H)	pic_shift_h	<val>		<input type="radio"/>	<input type="radio"/>	
Adjustment of video shift (V)	pic_shift_v	<val>		<input type="radio"/>	<input type="radio"/>	




Function setting function

Function	Command	Selected value/numeric value	Remarks	VPL-		Type
				FHZ60 series	FH60 series	
Adjustment of volume	volume	<val>	Volume	<input type="radio"/>	<input type="radio"/>	menu_num
Selection of smart APA	smart_apa	"on"	ON	<input type="radio"/>	<input type="radio"/>	menu_sel
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	
Selection of CC display	cc_display	"off"	OFF	<input type="radio"/>	<input type="radio"/>	
		"cc1"	CC1	<input type="radio"/>	<input type="radio"/>	
		"cc2"	CC2	<input type="radio"/>	<input type="radio"/>	
		"cc3"	CC3	<input type="radio"/>	<input type="radio"/>	
		"cc4"	CC4	<input type="radio"/>	<input type="radio"/>	
		"text1"	Text1	<input type="radio"/>	<input type="radio"/>	
		"text2"	Text2	<input type="radio"/>	<input type="radio"/>	
		"text3"	Text3	<input type="radio"/>	<input type="radio"/>	
		"text4"	Text4	<input type="radio"/>	<input type="radio"/>	
Selection of background	background	"blue"	Blue	<input type="radio"/>	<input type="radio"/>	
		"black"	Black	<input type="radio"/>	<input type="radio"/>	
		"image"	Image	<input type="radio"/>	<input type="radio"/>	
Selection of startup screen	startup_image	"on"	ON	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	




Operation setting function





Function	Command	Selected value/ numeric value	Remarks	VPL-		Type
				FHZ60 series	FH60 series	
Selection of display language	language	"english"	English	<input type="radio"/>	<input type="radio"/>	menu_sel
		"dutch"	Dutch	<input type="radio"/>	<input type="radio"/>	
		"french"	French	<input type="radio"/>	<input type="radio"/>	
		"italian"	Italian	<input type="radio"/>	<input type="radio"/>	
		"german"	German	<input type="radio"/>	<input type="radio"/>	
		"spanish"	Spanish	<input type="radio"/>	<input type="radio"/>	
		"portuguese"	Portuguese	<input type="radio"/>	<input type="radio"/>	
		"greek"	Greek	<input type="radio"/>	<input type="radio"/>	
		"turkish"	Turkish	<input type="radio"/>	<input type="radio"/>	
		"polish"	Polish	<input type="radio"/>	<input type="radio"/>	
		"hungarian"	Hungarian	<input type="radio"/>	<input type="radio"/>	
		"russian"	Russian	<input type="radio"/>	<input type="radio"/>	
		"finnish"	Finnish	<input type="radio"/>	<input type="radio"/>	
		"swedish"	Swedish	<input type="radio"/>	<input type="radio"/>	
		"norwegian"	Norwegian	<input type="radio"/>	<input type="radio"/>	
		"japanese"	Japanese	<input type="radio"/>	<input type="radio"/>	
		"chinese_s"	Simplified Chinese	<input type="radio"/>	<input type="radio"/>	
		"chinese_t"	Traditional Chinese	<input type="radio"/>	<input type="radio"/>	
		"korean"	Korean	<input type="radio"/>	<input type="radio"/>	
		"thai"	Thai	<input type="radio"/>	<input type="radio"/>	
		"vietnamese"	Vietnamese	<input type="radio"/>	<input type="radio"/>	
		"indonesian"	Indonesian	<input type="radio"/>	<input type="radio"/>	
		"arabic"	Arabic	<input type="radio"/>	<input type="radio"/>	
		"persian"	Persian	<input type="radio"/>	<input type="radio"/>	
Selection of menu display position	menu_pos	"bottom_left"	Bottom left	<input type="radio"/>	<input type="radio"/>	
		"center"	Center	<input type="radio"/>	<input type="radio"/>	
Selection of screen display	status_disp	"on"	ON	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	
		"all_off"	All OFF	<input type="radio"/>	<input type="radio"/>	
Selection of remote control light receiving portion	ir_receiver	"front_rear"	Front and rear	<input type="radio"/>	<input type="radio"/>	
		"front"	Front	<input type="radio"/>	<input type="radio"/>	
		"rear"	Rear	<input type="radio"/>	<input type="radio"/>	
Selection of remote control ID	remote_id	"all"	All	<input type="radio"/>	<input type="radio"/>	
		"1"	1	<input type="radio"/>	<input type="radio"/>	
		"2"	2	<input type="radio"/>	<input type="radio"/>	
		"3"	3	<input type="radio"/>	<input type="radio"/>	
		"4"	4	<input type="radio"/>	<input type="radio"/>	
Selection of control key lock	controlkey_lock	"on"	ON	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	
Selection of lens control lock	lens_lock	"on"	ON	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	

Connection/power setting function

Function	Command	Selected value/numeric value	Remarks	VPL-		Type
				FHZ60 series	FH60 series	
Selection of LAN setting of HDBT setting	hdbt_lan_term	"via_hdbt"	via HDBaseT	<input type="radio"/>	<input type="radio"/>	menu_sel
		"lan"	LAN terminal	<input type="radio"/>	<input type="radio"/>	
Selection of HDBT/232C setting	hdbt_232c_term	"via_hdbt"	Via HDBaseT	<input type="radio"/>	<input type="radio"/>	
		"232c"	RS-232C	<input type="radio"/>	<input type="radio"/>	
Selection of signal type	signal_sel	"auto"	Auto	<input type="radio"/>	<input type="radio"/>	
		"computer"	Computer	<input type="radio"/>	<input type="radio"/>	
		"video_gbr"	Video GBR	<input type="radio"/>	<input type="radio"/>	
		"component"	Component	<input type="radio"/>	<input type="radio"/>	
		Select the input terminal with Suffix. Example) signal_sel --rgb1 "computer" 		Only --rgb 1" can be specified.		
		Set Input-A terminal to "computer".				
Selection of color system	color_sys	"auto"	Auto	<input type="radio"/>	<input type="radio"/>	
		"ntsc358"	NTSC3.58	<input type="radio"/>	<input type="radio"/>	
		"pal"	PAL	<input type="radio"/>	<input type="radio"/>	
		"secam"	SECAM	<input type="radio"/>	<input type="radio"/>	
		"ntsc443"	NTSC4.43	<input type="radio"/>	<input type="radio"/>	
		"pal_m"	PAL-M	<input type="radio"/>	<input type="radio"/>	
		"pal_n"	PAL-N	<input type="radio"/>	<input type="radio"/>	
Selection of auto power saving (no signal)	powsave_no-sig	"lampoff"	Lamp Cutoff	<input type="radio"/>	<input type="radio"/>	
		"standby"	Standby	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	
Selection of auto power saving (invariable signal)	powsave_statsig	"dimming"	Dimming	<input type="radio"/>	—	
		"off"	OFF	<input type="radio"/>	—	
Selection of auto power saving (invariable) dimming time	powsave_dim_time	"5min"	5 min	<input type="radio"/>	—	
		"10min"	10 min	<input type="radio"/>	—	
		"15min"	15 min	<input type="radio"/>	—	
		"20min"	20 min	<input type="radio"/>	—	
		"demo"	Demo	<input type="radio"/>	—	
Selection of standby mode	standby_mode	"standard"	Standard	<input type="radio"/>	<input type="radio"/>	
		"low"	Low	<input type="radio"/>	<input type="radio"/>	
Selection of instant-on setting	instant_on	"off"	OFF	<input type="radio"/>	<input type="radio"/>	
		"10min"	10 min	<input type="radio"/>	<input type="radio"/>	
		"30min"	30 min	<input type="radio"/>	<input type="radio"/>	
Selection of direct power on	direct_po-won	"on"	ON	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	
Selection of digital input dynamic range	dynamic_range	"auto"	Auto	<input type="radio"/>	<input type="radio"/>	
		"limited"	Limited	<input type="radio"/>	<input type="radio"/>	
		"full"	Full	<input type="radio"/>	<input type="radio"/>	
		Select the input terminal with Suffix. Example) dynamic_range -- dvi1 "full" 		--dvi1 --hdmi1 --hdbaset 1 can be specified.		
Set DVI terminal to "full".						
Selection of digital long cable setting	digital_cable	"normal"	Normal	<input type="radio"/>	<input type="radio"/>	
		"long"	Long	<input type="radio"/>	<input type="radio"/>	
		Select the input terminal with Suffix. Example) digital_cable -hdmi 1 "long" 		Only --hdmi 1 can be specified.		
Set HDMI terminal to "long".						

Installation setting function


Function	Command	Selected value/numeric value	Remarks	VPL-		Type
				FHZ60 series	FH60 series	
Selection of image split	image_split	"off"	OFF	<input type="radio"/>	<input type="radio"/>	menu_sel
		"left"	Left side	<input type="radio"/>	<input type="radio"/>	
		"right"	Right side	<input type="radio"/>	<input type="radio"/>	
Selection of image flip	image_flip	"hv"	HV	<input type="radio"/>	<input type="radio"/>	
		"h"	H	<input type="radio"/>	<input type="radio"/>	
		"v"	V	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<input type="radio"/>	<input type="radio"/>	
		"auto"	Auto	<input type="radio"/>	<input type="radio"/>	
Selection of screen aspect	screen_aspect	"16_10"	16:10	<input type="radio"/>	<input type="radio"/>	
		"16_9"	16:9	<input type="radio"/>	<input type="radio"/>	
		"4_3"	4:3	<input type="radio"/>	<input type="radio"/>	
Adjustment of blanking	blanking	<val>	Blanking Select the adjustment position from top/bottom/left/right with Suffix. Example) blanking --top 10  The blanking top is set to 10.	<input type="radio"/>	<input type="radio"/>	menu_num
Adjustment of color matching (brightness)	color_matching_brt	<val>	Specify the adjustment level with Suffix. --lev1 (level 1) to --lev6 (level 6) Example) color_matching_brt --lev1	<input type="radio"/>	<input type="radio"/>	
Adjustment of color matching (color) R	color_matching_r	<val>	Example) color_matching_brt --lev1	<input type="radio"/>	<input type="radio"/>	
Adjustment of color matching (color) B	color_matching_b	<val>	10  The brightness of color matching level 1 is set to 10.	<input type="radio"/>	<input type="radio"/>	
Execution of reset for overall color matching adjustment	color_matching_reset		Color matching reset	<input type="radio"/>	<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. Example) panel_align_shift_adj_r --h 10 	<input type="radio"/>	<input type="radio"/>	menu_num
Adjustment of panel alignment (shift) B	panel_align_shift_adj_b	<val>	The panel alignment (shift) R is adjusted by 10 in the horizontal direction.	<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"/>	menu_sel
		"rg"	R/G	<input type="radio"/>	<input type="radio"/>	
		"bg"	B/G	<input type="radio"/>	<input type="radio"/>	
		"off"	OFF	<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"/>	
		"off"	Panel alignment OFF	<input type="radio"/>	<input type="radio"/>	


Function	Command	Selected value/numeric value	Remarks	VPL-		Type
				FHZ60 series	FH60 series	
Execution of reset for overall panel alignment adjustment	panel_align_reset		Execute the reset of panel alignment.	○	○	menu_exec
Selection of ON/OFF of Blending adjustment	blend_sw	"on"	ON	○	○	menu_sel
		"off"	OFF	○	○	
		Select the adjustment position from top/bottom/left/right with Suffix. Example) blend_sw --top "on"  The blending adjustment of top is set to ON.				
Adjustment of blending start position	blend_start	<val>	Blending start position Select the adjustment position from top/bottom/left/right with Suffix. Example) blend_start --top 10  The blending start position (top) is adjusted to 10.	○	○	menu_num
Adjustment of blending adjustment width	blend_width	<val>		○	○	
Adjustment of blending black level R offset	blend_bk_level_r	<val>	Specify the adjustment position from pos1 to pos9 with Suffix. Example) blend_bk_level_r --pos3 10  The blending black level R offset adjustment position 3 is set to 10.	○	○	menu_sel
Adjustment of blending black level G offset	blend_bk_level_g	<val>		○	○	
Adjustment of blending black level B offset	blend_bk_level_b	<val>		○	○	
Adjustment of blending black level Execution of reset	blend_bk_level_reset			○	○	menu_exec
Execution of reset for blending adjustment	blend_reset			○	○	menu_exec
Selection of pattern (marker) display during the blending adjustment	blend_cursor	"on"	ON	○	○	menu_sel
		"off"	OFF	○	○	
Selection of cursor display during the blending adjustment	blend_cursor_color	"r"	Red	○	○	
		"g"	Green	○	○	
		"b"	Blue	○	○	
		"c"	Cyan	○	○	
		"m"	Magenta	○	○	
		"y"	Yellow	○	○	
		Select the marker portion with Suffix. Example) blend_cursor_color --start "r"  The color of blending cursor (start position) is set to Red.				
Selection of high altitude mode	high_alt_mode	"on"	ON	○	○	
		"off"	OFF	○	○	
Execution of filter cleaning (with the power turned off)	filter_cleaning			○	○	menu_exec

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.

Remote controller key command

Command type: key

Command list

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

Command example

`key "menu"`  Description: Press the MENU key.
`ok` 

Key code list

Key code	Function	VPL-	
		FHZ60 series	FH60 series
"power_on"	Power ON	○	○
"power_off"	Power OFF	○	○
"power"	Power toggle	○	○
"video"	Video	○	○
"s_video"	S video	—	—
"input_a"	Input A	○	○
"input_b"	Input B	○	○
"input_c"	Input C	○	○
"input_d"	Input D	○	○
"input_e"	Input E	—	—
"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	○	○
"return"	Return	○	○
"picmode1"	Picture quality mode Dynamic	○	○
"picmode2"	Picture quality mode Standard	○	○
"picmode3"	Picture quality mode Luminance priority	○	○
"picmode4"	Picture quality mode Multi-screen	○	○
"picmode"	Picture quality mode toggle	○	○
"picture+"	Contrast +	○	○
"picture—"	Contrast —	○	○
"color+"	Color depth +	○	○
"color—"	Color depth —	○	○
"bright+"	Brightness +	○	○
"bright—"	Brightness —	○	○
"hue+"	Hue +	○	○
"hue—"	Hue —	○	○
"sharpness+"	Sharpness +	○	○
"sharpness—"	Sharpness —	○	○
"picture_adj"	Picture quality adjustment toggle	○	○
"color_temp"	Color temperature toggle	○	○
"color_mode"	Color space toggle	○	○
"black_level"	Contrast enhancer toggle	○	○
"aspect"	ASPECT	○	○
"apa"	APA	○	○
"phase"	Phase	○	○

Key code	Function	VPL-	
		FHZ60 series	FH60 series
"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	○	○
"twin"	TWIN	○	○
"freeze"	Freeze	○	○
"d_zoom+"	Digital zoom +	○	○
"d_zoom–"	Digital zoom –	○	○
"keystone"	Keystone	○	○
"keystone+"	V Keystone +	○	○
"keystone–"	V Keystone –	○	○
"pattern"	Test pattern	○	○
"eco"	ECO mode	○	○

2. Network Communication

The ports used in the unit are as shown below.

VPL-FHZ60/FH60 series

Protocol/function	Port No.	Service state at the factory	Setting change enabled/disabled	
			Service ON/OFF	Port No.
SDAP	UDP:53482	ON	Enabled	Enabled
ADCP	TCP:53595	ON	Enabled	Enabled
SMTP	TCP:25	OFF	Enabled by mail setting	Disabled
POP3	TCP:110	OFF	Enabled by mail setting	Disabled
SNMP	UDP:161	ON	Disabled	Disabled
DDDP	UDP:9131	ON	Disabled	Disabled
PJLink	TCP:4352	OFF	Enabled	Disabled
CIP	TCP:41794	ON	Disabled	Enabled

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(SUPPORTED COMMAND LIST)
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