

**MULTIMEDIA PROJECTOR
WUX6000**

User Commands

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1. Overview

These specifications describe the methods of controlling Projector WUX6000 from PC or other controllers over an RS232C connection or LAN.

■ Symbol

The following symbols are used in these specifications:

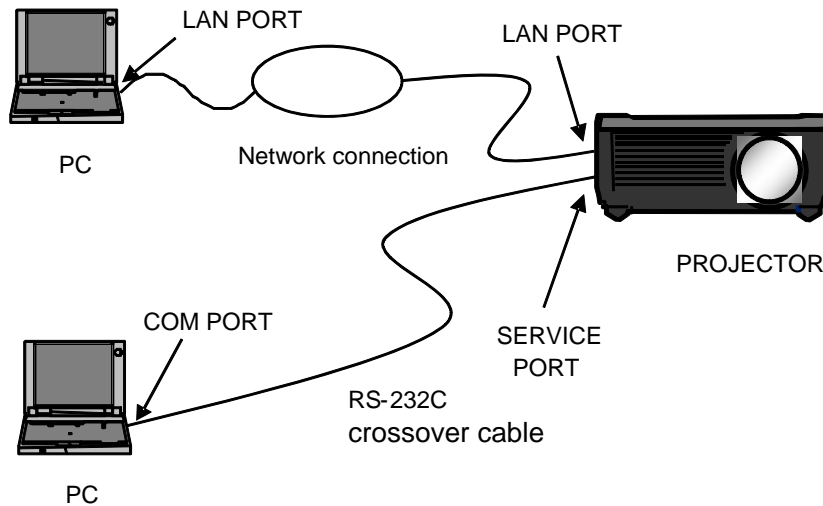
Symbol	Description
[]	Data in [] can be omitted.
|	Same as OR.

2. Communication Specifications

Communication Specifications

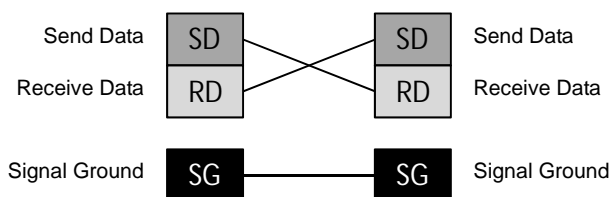
The projector can be controlled via RS-232C or LAN cable connection.

PC - Projector connection configuration



RS-232C connection	
Item	Specifications
Connection system	PC and projector connected on a "1:1" basis
Connection signal line	3-line connection of SD, RD, and SG
Connection cable	9-pin RS-232C cable (crossover)

LAN connection	
Item	Specifications
Connection system	TCP / IP connection
Connection signal line	Straight when connecting via network
Connection cable	LAN cable
LAN	1000BASE-T 100BASE-TX 10BASE-T



* Signal lines other than the three SD, RD, and SG lines are not used in the projector.

* Loop back its own signals on the PC side as necessary.

* To use the LAN connection, the network function on the projector must be turned on.

In addition, to allow network communication between the PC and projector, connect cables between the devices, and set the IP addresses, subnet masks, and other network parameters.

Usable Character Codes

Use ASCII codes in the red and blue areas of the following table.

No distinction is made between double-byte characters and single-byte characters. All characters are interpreted as single-byte characters. Do not use double-byte or triple-byte characters. They will all be recognized as single-byte characters.

Uppercase and lowercase alphabet letters are recognized as the same character.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL		SP	0	@	P	`	p								
1			!	1	A	Q	a	q								
2			"	2	B	R	b	r								
3			#	3	C	S	c	s								
4			\$	4	D	T	d	t								
5			%	5	E	U	e	u								
6			&	6	F	V	f	v								
7			'	7	G	W	g	w								
8			(	8	H	X	h	x								
9			)	9	I	Y	i	y								
A			*	:	J	Z	j	z								
B			+	;	K	[	k	{								
C			,	<	L	\	l	|								
D	CR		-	=	M	]	m	}								
E			.	>	N	^	n	~								
F			/	?	O	_	o									

Item	Specifications
Delimiters	CR(0Dh) Characters usable as delimiters.
General Characters	20h to 60h, 7Bh to 7Eh Characters usable in commands.
Invalid Characters	Do not use the codes in regions other than the red and blue areas or invalid characters. If used, it will be handled as a space (20h).
Unrecommended characters	Do not use as a general rule. Both upper case and lower case letters can be used in commands, but upper case should be used in most cases.

Communication System (Serial)

Item	Specifications
Communication system	RS-232-C Start-stop synchronization half-duplex communication
Transmission speed	19.2 Kbps
Character length	8 bits / character
Stop bit	2 bits
Parity	None
Command format	Variable-length records with terminals as delimiters
Maximum transmission length	Maximum of 256 characters (bytes) including delimiters.
Delimiters	CR (0Dh) can be used as a delimiter.
	Delimiter in the response is CR.
Command code	ASCII codes (20h to 7Eh) Codes other than ASCII codes (20h to 7Eh), delimiter code (0Dh), or NUL (00h) are handled as spaces (20h).
Communication procedure	No procedure
Flow control	None
Error control	None
Break signal	Not supported
Timeout	Tc Between characters: 1 s
	Tr Between command / response interval: 15 s

* For timeout, see chapter 3, "Communication Flow" on page 8.

Communication System (LAN)

Item	Specifications
Communication system	TCP/IP connection. Port: 33336
Remark	If a command is not received for 30 seconds, the socket will be closed.

Command Format

Format

Commands are sent from PC to the projector in the following format:

<command text><delimiter> or
<command text>=(value)<delimiter>

<command text>	Character strings consisting of 1 or more alphanumeric letters
<value>	Character strings consisting of 1 or more alphanumeric letters
<delimiter>	CR(0Dh)

For <command strings> and <value>, see explanation about each command.

Example) When checking the power status (POWER)
PC to PJ

G	E	T	=	P	O	W	E	R	CR
47h	45h	54h	3Dh	50h	4Fh	57h	45h	52h	0Dh

Response Format

Responses are sent from the projector to PC in the following format:

<Response character string> <Delimiter>

There are multiple response types, each having different <response string> format.

<Response character string>	<p>Character strings consisting of 1 or more alphanumeric letters First 2 digits are always 1 lowercase alphabet letter and a ":" (colon). The first character indicates the response type.</p> <table border="1"> <thead> <tr> <th>Response type</th> <th>Meaning</th> <th>Example</th> </tr> </thead> <tbody> <tr> <td>i</td> <td>Normal response</td> <td>i:OK</td> </tr> <tr> <td>g</td> <td>Reference command response</td> <td>g:BRI=0</td> </tr> <tr> <td>e</td> <td>Error response</td> <td>e:0002 INVALID_COMMAND</td> </tr> </tbody> </table>	Response type	Meaning	Example	i	Normal response	i:OK	g	Reference command response	g:BRI=0	e	Error response	e:0002 INVALID_COMMAND
Response type	Meaning	Example											
i	Normal response	i:OK											
g	Reference command response	g:BRI=0											
e	Error response	e:0002 INVALID_COMMAND											
<delimiter>	CR(0Dh)												

Format varies according to the type, as follows:

■ Normal response

A response when command is processed normally.

The projector receives the next command only after receiving this response.

Format)

i:OK<delimiter>

Example)

PC to PJ

P	O	W	E	R	=	O	N	CR
50h	4Fh	57h	45h	52h	3Dh	4Fh	4Eh	0Dh

PJ to PC

i	:	O	K	CR
69h	3Ah	4Fh	4Bh	0Dh

Reference command response

A response when reference is made properly for a reference command.

Format)

g:<command string>=<value><delimiter>

Example)

PC to PJ

G	E	T	=	P	O	W	E	R	CR
47h	45h	54h	3Dh	50h	4Fh	57h	45h	52h	0Dh

PJ to PC

g	:	P	O	W	E	R	=	O	N	CR
67h	3Ah	50H	4Fh	57h	45h	52h	3Dh	4Fh	4Eh	0Dh

Error response

A response when an error occurred.

Format)

e:<error ID><space><error info string><delimiter>

<error ID>	4 alphanumeric letters
<space>	Space character (20h)
<error info string>	Character strings consisting of 1 or more alphanumeric letters

* Refer to "Error List"

Example)

PC to PJ

A	U	T	O	P	C	CR
41h	55h	54h	4Fh	50h	43h	0Dh

PJ to PC

e	:	2	0	1	F		I	N	V	A	L	I	D	_
65h	3Ah	32h	30h	31h	46h	20h	49h	4Eh	56h	41h	4Ch	49h	44h	5Fh
S	I	G	N	A	L	CR								
53h	49h	47h	4Eh	41h	4Ch	0Dh								

■ Normal response (BUSY)

This response is sent when a command cannot be received during processing.

Format)

i:BUSY<delimiter>

Example)

PC to PJ

A	U	T	O	P	C	CR
41h	55h	54h	4Fh	50h	43h	0Dh

PJ to PC

I	:	B	U	S	Y	CR
69h	3Ah	42h	55h	53h	59h	0Dh

Other

■ Command recognition

The receiver (projector) retains incoming characters within a specific Tc, and recognizes the data as "received command" when delimiter is received.

If the character interval received exceeds the Tc or if a delimiter is not received within 256 characters, all data already received is lost, and the mode is reset to standby to receive commands again.

■ Parameter value

Definition of <Parameter value> is as follows:

<Parameter value>	<value 1>, <value 2>...,<value n>
<value n>	<Numerical value> | <ID> | "<Character string>"
<numerical value>	[<sign>]<decimal numeric string > The decimal string consists of minimum 1 letter and maximum 5 letters. Valid value range is -32768 to 32767.
<ID>	1 or more ASCII characters (20h to 60h, 7Bh to 7Eh)
<character string>	0 or more ASCII characters (20h to 60h, 7Bh to 7Eh)

3. Communication Flow

Command Transmission (PC side)

Commands should be sent from PC in a way that each character is sent within the specified Tc (inter-character timeout).

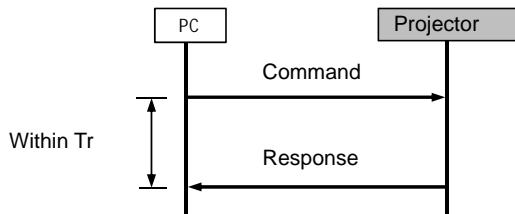
Command Reception (projector side)

The projector retains incoming characters within a specific Tc, and recognizes the data as "received command" when delimiter is received.

If the character interval received exceeds the Tc or if a delimiter is not received within 256 characters, all data already received is lost, and the mode is reset to standby to receive commands again.

Command/Response

A response is always returned within Tr(*) for a command sent from the PC.



(*) The timeout interval between command and response (Tr) is 15 seconds.

Response Reception Timeout

If a response is not received within the Tr (timeout interval between command and response) while standing by a waiting response after sending a command from the PC, it is deemed to have exceeded the "response reception timeout." Please resend the command.

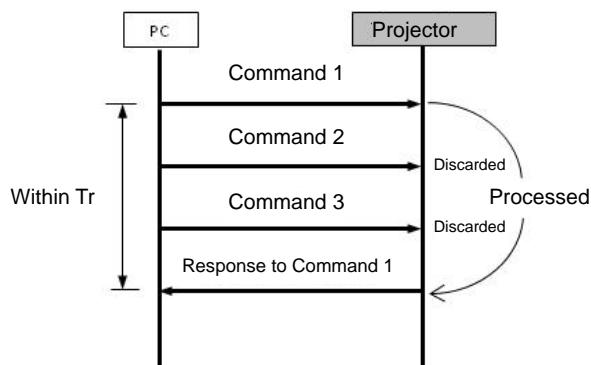
Other

To execute commands via the network, the network function must be enabled in advance.

Only a portion of the commands can be executed when the projector is in standby mode.

The PC side cannot send the next user command before a response for the first command is returned.

If two or more user commands are received, user commands from 2nd one are discarded. If 2 or more user commands are received, only the 1st command is processed, and a response is returned when finished.



4. Command List

Item	Command	Setting	Reference	Description	Power mode restriction							
					LAN				RS-232C			
					SL0	SL1	SL3	PM	ON	ST	PM	ON
1	6AXADJ	Yes	Yes	6-axis color adjustment	-	-	-	-	Yes	-	-	Yes
2	6AXR	Yes	Yes	6-axis color adjustment R hue/saturation/brightness	-	-	-	-	Yes	-	-	Yes
3	6AXG	Yes	Yes	6-axis color adjustment G hue/saturation/brightness	-	-	-	-	Yes	-	-	Yes
4	6AXB	Yes	Yes	6-axis color adjustment B hue/saturation/brightness	-	-	-	-	Yes	-	-	Yes
5	6AXC	Yes	Yes	6-axis color adjustment C hue/saturation/brightness	-	-	-	-	Yes	-	-	Yes
6	6AXM	Yes	Yes	6-axis color adjustment M hue/saturation/brightness	-	-	-	-	Yes	-	-	Yes
7	6AXY	Yes	Yes	6-axis color adjustment Y hue/saturation/brightness	-	-	-	-	Yes	-	-	Yes
8	AMBADJ	Yes	Yes	Ambient light correction adjustment ON/OFF	-	-	-	-	Yes	-	-	Yes
9	AMBLEVEL	Yes	Yes	Ambient light level settings	-	-	-	-	Yes	-	-	Yes
10	AMBTTYPE	Yes	Yes	Ambient light type settings	-	-	-	-	Yes	-	-	Yes
11	ASELA1	Yes	Yes	Analog PC-1 audio input terminal selection	-	-	-	-	Yes	-	-	Yes
12	ASELA2	Yes	Yes	Analog PC-2 audio input terminal selection	-	-	-	-	Yes	-	-	Yes
13	ASELC	Yes	Yes	Component audio input terminal selection	-	-	-	-	Yes	-	-	Yes
14	ASELD	Yes	Yes	Digital PC audio input terminal selection	-	-	-	-	Yes	-	-	Yes
15	ASELH	Yes	Yes	HDMI audio input terminal selection	-	-	-	-	Yes	-	-	Yes
16	ASELL	Yes	Yes	LAN audio input terminal selection	-	-	-	-	Yes	-	-	Yes
17	ASELU	Yes	Yes	USB audio input terminal selection	-	-	-	-	Yes	-	-	Yes
18	ASPECT	Yes	Yes	Aspect ratio	-	-	-	-	Yes	-	-	Yes
19	AUTOPC	Yes	-	Auto PC	-	-	-	-	Yes	-	-	Yes
20	AUTOSETEXE	Yes	-	Auto setup	-	-	-	-	Yes	-	-	Yes
21	AVOL	Yes	Yes	Audio volume adjustment	-	-	-	-	Yes	-	-	Yes
22	BLANK	Yes	Yes	Screen blank	-	-	-	-	Yes	-	-	Yes
23	BRI	Yes	Yes	Brightness setting	-	-	-	-	Yes	-	-	Yes
24	COLOR_TEMP	Yes	Yes	Color temperature setting	-	-	-	-	Yes	-	-	Yes
25	COMVER	-	Yes	User command version inquiry	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
26	CONT	Yes	Yes	Contrast setting	-	-	-	-	Yes	-	-	Yes
27	DGAMMA	Yes	Yes	Dynamic gamma	-	-	-	-	Yes	-	-	Yes
28	DZOOM_POS	Yes	Yes	Zoom display position	-	-	-	-	Yes	-	-	Yes
29	DZOOM_RAT	Yes	Yes	Zoom display ratio	-	-	-	-	Yes	-	-	Yes
30	ERR	-	Yes	Error information inquiry	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
31	FINE_GAMMA_R	Yes	Yes	Fine gamma (R)	-	-	-	-	Yes	-	-	Yes
32	FINE_GAMMA_G	Yes	Yes	Fine gamma (G)	-	-	-	-	Yes	-	-	Yes
33	FINE_GAMMA_B	Yes	Yes	Fine gamma (B)	-	-	-	-	Yes	-	-	Yes
34	FLTWRN	Yes	Yes	Air filter cleaning warning	-	-	-	-	Yes	-	-	Yes

Item	Command	Setting	Reference	Description	Power mode restriction							
					LAN				RS-232C			
					SL0	SL1	SL3	PM	ON	ST	PM	ON
35	FNBND	Yes	Yes	[Fn] button setting	-	-	-	-	Yes	-	-	Yes
36	FREEZE	Yes	Yes	Screen freeze	-	-	-	-	Yes	-	-	Yes
37	GAMMA	Yes	Yes	Gamma adjustment	-	-	-	-	Yes	-	-	Yes
38	HDMI_IN	Yes	Yes	HDMI input setting	-	-	-	-	Yes	-	-	Yes
39	HDMI_OVSCAN	Yes	Yes	HDMI overscan setting	-	-	-	-	Yes	-	-	Yes
40	HTMPINF	Yes	Yes	High temperature caution display	-	-	-	-	Yes	-	-	Yes
41	HUE	Yes	Yes	Hue setting	-	-	-	-	Yes	-	-	Yes
42	IMAGE	Yes	Yes	Image mode setting	-	-	-	-	Yes	-	-	Yes
43	IMAGEFLIP	Yes	Yes	Flip display	-	-	-	-	Yes	-	-	Yes
44	INPUT	Yes	Yes	Input signal selection	-	-	-	-	Yes	-	-	Yes
45	KREP	Yes	Yes	Key repeat	-	-	-	-	Yes	-	-	Yes
46	LAMP	Yes	Yes	Lamp mode	-	-	-	-	Yes	-	-	Yes
48	LAMPCOUNTER	-	Yes	Lamp counter inquiry	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
47	LMPWRN	Yes	Yes	Lamp replacement warning display	-	-	-	-	Yes	-	-	Yes
49	LPOSLD	Yes	-	Lens position load	-	-	-	-	Yes	-	-	Yes
50	MAIN	Yes	-	Unit control panel emulation	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
51	MEMF	Yes	Yes	Memory color adjustment (flesh)	-	-	-	-	Yes	-	-	Yes
52	MEMG	Yes	Yes	Memory color adjustment (green)	-	-	-	-	Yes	-	-	Yes
53	MEMS	Yes	Yes	Memory color adjustment (sky)	-	-	-	-	Yes	-	-	Yes
54	MUTE	Yes	Yes	Audio mute	-	-	-	-	Yes	-	-	Yes
55	NR	Yes	Yes	Random noise reduction	-	-	-	-	Yes	-	-	Yes
56	NRMPG	Yes	Yes	MPEG noise reduction	-	-	-	-	Yes	-	-	Yes
57	NRMSQT	Yes	Yes	Mosquito noise reduction	-	-	-	-	Yes	-	-	Yes
58	POWER	Yes	Yes	Power supply control	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
59	PRODCODE	-	Yes	Product name inquiry	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
60	RC	Yes	-	Remote control operation emulate	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
61	RGBGAIN	Yes	Yes	RGB gain adjustment	-	-	-	-	Yes	-	-	Yes
62	RGBOFFSET	Yes	Yes	RGB offset adjustment	-	-	-	-	Yes	-	-	Yes
63	ROMVER	-	Yes	Firmware version inquiry	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes
64	SAT	Yes	Yes	Color saturation setting	-	-	-	-	Yes	-	-	Yes
65	SAVEIMGPROF	Yes	Yes	User memory creation/storage/deletion	-	-	-	-	Yes	-	-	Yes
66	SCRNASPECT	Yes	Yes	Screen aspect setting	-	-	-	-	Yes	-	-	Yes
67	SHARP	Yes	Yes	Sharpness setting	-	-	-	-	Yes	-	-	Yes
68	SIGMSG	Yes	Yes	Input status display	-	-	-	-	Yes	-	-	Yes
69	SIGNAL_INFO	-	Yes	Displayed signal information inquiry	-	-	-	-	Yes	-	-	Yes
70	SIGNALSTATUS	-	Yes	Signal detection inquiry	-	-	-	-	Yes	-	-	Yes
71	TEMP	-	Yes	Temperature sensor value inquiry	-	-	Yes	Yes	Yes	Yes	Yes	Yes
72	TPTN	Yes	Yes	Test pattern	-	-	-	-	Yes	-	-	Yes
73	ZSCLR	Yes	Yes	Zoom	-	-	-	-	Yes	-	-	Yes

Note: About "Power mode restriction"

Commands are executable only when the projector is in the mode indicated by "Yes." Meaning of each mode is as follows:

Power mode restriction/LAN: Indicates whether the command coming through LAN is executable.

SL0: Standby mode, and the network function is turned off. When the network function is turned off, the command is not executable if coming from LAN, in which case, this should never be "Yes".

SL1: Standby mode, and the network standby setting is set to "Eco."

SL3: Standby mode, and the network standby setting is set to "Normal."

PM: Power management "lamp off" standby

ON: Normal projection status

Power/RS-232C: Indicates whether the command coming through RS-232C is executable.

ST: Standby mode (includes SL0, SL1 and SL3 altogether, regardless of the network setting).

5. Guide to Command Description

This section explains how commands are described.
The command descriptions have the format shown below.

EXAMPLE

Summary of the function

Format

Setting	Command	A command format when a command is sent to the projector to make a setting for the function. "-" is shown when there is no setting command. Example) 6AXADJ=<6-axis adjustment parameter:ID>
	Response	A response format for the setting command. "-" is shown when there is no setting command. Example) i:OK
Reference	Command	A command format when a command is sent to the projector to refer to the current setting, status and others for the function. "-" is shown when there is no reference command. Example) GET=6AXADJ
	Response	A response format for a reference command. "-" is shown when there is no reference command. Example) g:6AXADJ=<6-axis adjustment parameter:ID>

Note: See "Error list" for any response other than the above.

When parameters exist for the command, a list of parameter is inserted in this position.

Example)

<6-axis adjustment parameter:ID>

Parameter	Meaning
ON	Valid
OFF	Invalid

Environment

This defines the environments that support the command (power supply state, input signal state). The command is executable when the projector is in the mode indicated by "Yes" in the table of corresponding command description page.

Power mode restriction								Input *9						
LAN*1				RS-232C*7										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
*2	*3	*4	*5	*6	*8	*5	*6	*9	*9	*9	*9	*9	*9	*9

- *1 Power mode restriction/LAN Indicates whether the command coming through LAN is executable.
- *2 SL0 Standby mode, and the network function is turned off.
When the network function is turned off, the command is not executable if coming from LAN, in which case, this should never be "Yes".
- *3 SL1 Standby mode, and the network standby setting is set to "Eco."
- *4 SL3 Standby mode, and the network standby setting is set to "Normal."
- *5 PM Power management "lamp off" standby
- *6 ON Normal projection status
- *7 Power / RS-232C Indicates whether the command coming through RS-232C is executable.
- *8 ST Standby mode (includes SL0, SL1 and SL3 altogether, regardless of the network setting).
- *9 Input Indicates whether the command that is depending on input signal is executable while the power is on.

Remarks

Remarks about the command is inserted when necessary.

Example

Specific example of the command is inserted when necessary.

6. Command Details

6AXADJ

6-axis color adjustment

Format

Setting	Command	6AXADJ=<6-axis adjustment parameter: ID>
	Response	i:OK
Reference	Command	GET=6AXADJ
	Response	g:6AXADJ=<6-axis adjustment parameter: ID>

Note: See "Error list" for any response other than the above.

<6-axis adjustment parameter:ID>

Parameter	Meaning
ON	Adjusted
OFF	Turned off

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) Use "6AXR - Y" command when this is set to "ON" and the corrected 6-axis values need to be changed.
- (2) This sets the currently selected input signal and image mode.

Example

(Control)

> 6AXADJ=ON

< i:OK

(Reference)

> GET=6AXADJ

< g:6AXADJ=ON

Note: '>' indicates a command; '<' indicates a response.

6AXR

6-axis adjustment (red), hue/saturation/brightness

Format

Setting	Command	6AXR=<R hue:Number>,<R saturation:Number>,<R brightness:Number>
	Response	i:OK
Reference	Command	GET=6AXR
	Response	g:6AXR=<R hue:Number>,<R saturation:Number>,<R brightness:Number>

Note: See "Error list" for any response other than the above.

- <R hue:Number> is within -20 to 20
- <R saturation:Number> is within -20 to 20
- <R brightness:Number> is within -20 to 20

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) When 6-axis adjustment is turned on, these settings are shown over the displayed image. However, the settings can be changed regardless of whether 6-axis adjustment is turned on or not.
- (2) This sets the currently selected input signal and image mode.

Example

(Setting)
 >6AXR=-8,5,3
 < i:OK

(Reference)
 > GET=6AXR
 < g:6AXR=-8,5,3

Note: '>' indicates a command; '<' indicates a response.

6AXG

6-axis adjustment (green), hue/saturation/brightness

Format

Setting	Command	6AXG=<G hue:Number>,<G saturation:Number>,<G brightness:Number>
	Response	i:OK
Reference	Command	GET=6AXG
	Response	g:6AXG=<G hue:Number>,<G saturation:Number>,<G brightness:Number>

Note: See "Error list" for any response other than the above.

<G hue:Number> is within -20 to 20

<G saturation:Number> is within -20 to 20

<G brightness:Number> is within -20 to 20

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) When 6-axis adjustment is turned on, these settings are shown over the displayed image. However, the settings can be changed regardless of whether 6-axis adjustment is turned on or not.
- (2) This sets the currently selected input signal and image mode.

Example

(Setting)
>6AXG=-8,5,3
< i:OK

(Reference)
> GET=6AXG
< g:6AXG=-8,5,3

Note: '>' indicates a command; '<' indicates a response.

6AXB

6-axis adjustment (blue), hue/saturation/brightness

Format

Setting	Command	6AXB=<B hue:Number>,<B saturation:Number>,<B brightness:Number>
	Response	i:OK
Reference	Command	GET=6AXB
	Response	g:6AXB=<B hue:Number>,<B saturation:Number>,<B brightness:Number>

Note: See "Error list" for any response other than the above.

<B hue:Number> is within -20 to 20

<B saturation:Number> is within -20 to 20

<B brightness:Number> is within -20 to 20

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) When 6-axis adjustment is turned on, these settings are shown over the displayed image. However, the settings can be changed regardless of whether 6-axis adjustment is turned on or not.
- (2) This sets the currently selected input signal and image mode.

Example

(Setting)
>6AXB=-8,5,3
< i:OK

(Reference)
> GET=6AXB
< g:6AXB=-8,5,3

Note: '>' indicates a command; '<' indicates a response.

6AXC

6-axis adjustment (cyan), hue/saturation/brightness

Format

Setting	Command	6AXC=<C hue:Number>,<C saturation:Number>,<C brightness:Number>
	Response	i:OK
Reference	Command	GET=6AXC
	Response	g:6AXC=<C hue:Number>,<C saturation:Number>,<C brightness:Number>

Note: See "Error list" for any response other than the above.

- <C hue:Number> is within -20 to 20
- <C saturation:Number> is within -20 to 20
- <C brightness:Number> is within -20 to 20

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) When 6-axis adjustment is turned on, these settings are shown over the displayed image. However, the settings can be changed regardless of whether 6-axis adjustment is turned on or not.
- (2) This sets the currently selected input signal and image mode.

Example

(Setting)
 >6AXC=-8,5,3
 < i:OK

(Reference)
 > GET=6AXC
 < g:6AXC=-8,5,3

Note: '>' indicates a command; '<' indicates a response.

6AXM

6-axis adjustment (magenta), hue/saturation/brightness

Format

Setting	Command	6AXM=<M hue:Number>,<M saturation:Number>,<M brightness:Number>
	Response	i:OK
Reference	Command	GET=6AXM
	Response	g:6AXM=<M hue:Number>,<M saturation:Number>,<M brightness:Number>

Note: See "Error list" for any response other than the above.

<M hue:Number> is within -20 to 20
 <M saturation:Number> is within -20 to 20
 <M brightness:Number> is within -20 to 20

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- When 6-axis adjustment is turned on, these settings are shown over the displayed image. However, the settings can be changed regardless of whether 6-axis adjustment is turned on or not.
- This sets the currently selected input signal and image mode.

Example

(Setting)
 >6AXM=-8,5,3
 < i:OK

(Reference)
 > GET=6AXM
 < g:6AXM=-8,5,3

Note: '>' indicates a command; '<' indicates a response.

6AXY

6-axis adjustment (yellow), hue/saturation/brightness

Format

Setting	Command	6AXY=<Y hue:Number>,<Y saturation:Number>,<Y brightness:Number>
	Response	i:OK
Reference	Command	GET=6AXY
	Response	g:6AXY=<Y hue:Number>,<Y saturation:Number>,<Y brightness:Number>

Note: See "Error list" for any response other than the above.

<Y hue:Number> is within -20 to 20

<Y saturation:Number> is within -20 to 20

<Y brightness:Number> is within -20 to 20

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) When 6-axis adjustment is turned on, these settings are shown over the displayed image. However, the settings can be changed regardless of whether 6-axis adjustment is turned on or not.
- (2) This sets the currently selected input signal and image mode.

Example

(Setting)
>6AXY=-8,5,3
< i:OK

(Reference)
> GET=6AXY
< g:6AXY=-8,5,3

Note: '>' indicates a command; '<' indicates a response.

AMBADJ

Ambient light correction adjustment ON/OFF

Format

Setting	Command	AMBADJ=<Ambient light correction adjustment parameter:ID>
	Response	i:OK
Reference	Command	GET=AMBADJ
	Response	g:AMBADJ=<Ambient light correction adjustment parameter:ID>

Note: See "Error list" for any response other than the above.

< Ambient light correction adjustment parameter:ID >

Parameter	Meaning
ON	Adjusted
OFF	Turned off

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) Ambient light level and "Ambient light type" settings take effect on the displayed image when "Ambient light correction" is activated.
To adjust the "Ambient light level" or "Ambient light type", use "AMBLEVEL" or "AMBTYP" command, respectively.
- (2) This sets the currently selected input signal and image mode.

Example

(Control)

```
> AMBADJ=ON
< i:OK
```

(Reference)

```
> GET=AMBADJ
< g:AMBADJ=ON
```

Note: '>' indicates a command; '<' indicates a response.

AMBLEVEL

Ambient light level settings

Format

Setting	Command	AMBLEVEL=<Ambient light level settings parameter:ID>
	Response	i:OK
Reference	Command	GET=AMBLEVEL
	Response	g: AMBLEVEL=<Ambient light level settings parameter:ID>

Note: See "Error list" for any response other than the above.

< Ambient light level settings parameter:ID >

Parameter	Meaning
WEAK	Ambient light level is set to weak.
STRONG	Ambient light level is set to strong.

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)
 >AMBLEVEL=WEAK
 < i:OK

(Reference)
 > GET=AMBLEVEL
 < g:AMBLEVEL=WEAK

Note: '>' indicates a command; '<' indicates a response.

AMBTYP

Ambient light type settings

Format

Setting	Command	AMBTYP=<Ambient light type settings parameter:ID>
	Response	i:OK
Reference	Command	GET=AMBTYP
	Response	g: AMBTYP=<Ambient light type settings parameter:ID>

Note: See "Error list" for any response other than the above.

< Ambient light type settings parameter:ID >

Parameter	Meaning
TG	Tungsten lamp
FL	Fluorescent lamp

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)
 >AMBTYP=FL
 < i:OK

(Reference)
 > GET=AMBTYP
 < g:AMBTYP=FL

Note: '>' indicates a command; '<' indicates a response.

ASELA1

Analog PC-1 audio terminal selection

Format

Setting	Command	ASELA1=<Analog PC-1 audio terminal selection parameter:ID>
	Response	i:OK
Reference	Command	GET=ASELA1
	Response	g: ASELA1=<Analog PC-1 audio terminal selection parameter:ID>

Note: See "Error list" for any response other than the above.

< Analog PC-1 audio terminal selection parameter:ID >

Parameter	Meaning
1	Audio In 1
2	Audio In 2
OFF	Turned off

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

(Setting)
 >ASELA1=1
 < i:OK

(Reference)
 > GET=ASELA1
 < g:ASELA1=1

Note: '>' indicates a command; '<' indicates a response.

ASELA2

Analog PC-2 Audio input terminal selection

Format

Setting	Command	ASELA2=<Analog PC-2 audio terminal selection parameter:ID>
	Response	i:OK
Reference	Command	GET=ASELA2
	Response	g:ASELA2=<Analog PC-2 audio terminal selection parameter:ID>

Note: See "Error list" for any response other than the above.

< Analog PC-2 audio terminal selection parameter:ID>

Parameter	Meaning
1	Audio In 1
2	Audio In 2
OFF	Turned off

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Example

(Setting)
 >ASELA2=1
 < i:OK

(Reference)
 > GET=ASELA2
 < g:ASELA2=1

Note: '>' indicates a command; '<' indicates a response.

ASELC

Component Audio input terminal selection

Format

Setting	Command	ASELC=<Component audio terminal selection parameter:ID>
	Response	i:OK
Reference	Command	GET=ASELC
	Response	g:ASELC=<Component audio terminal selection parameter:ID>

Note: See "Error list" for any response other than the above.

< Component audio terminal selection parameter:ID>

Parameter	Meaning
1	Audio In 1
2	Audio In 2
OFF	Turned off

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

(Setting)
 >ASELC=1
 < i:OK

(Reference)
 > GET=ASELC
 < g:ASELC=1

Note: '>' indicates a command; '<' indicates a response.

ASELD

Digital PC Audio input terminal selection

Format

Setting	Command	ASELD=<Digital PC audio terminal selection parameter:ID>
	Response	i:OK
Reference	Command	GET=ASELD
	Response	g:ASELD=<Digital PC audio terminal selection parameter:ID>

Note: See "Error list" for any response other than the above.

< Digital PC audio terminal selection parameter:ID>

Parameter	Meaning
1	Audio In 1
2	Audio In 2
OFF	Turned off

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

(Setting)
 >ASELD=1
 < i:OK

(Reference)
 > GET=ASELD
 < g:ASELD=1

Note: '>' indicates a command; '<' indicates a response.

ASELH

HDMI Audio input terminal selection

Format

Setting	Command	ASELH=<HDMI audio terminal selection parameter:ID>
	Response	i:OK
Reference	Command	GET=ASELH
	Response	g:ASELH=<HDMI audio terminal selection parameter:ID>

Note: See "Error list" for any response other than the above.

< HDMI audio terminal selection parameter:ID >

Parameter	Meaning
H	HDMI audio
1	Audio In 1
2	Audio In 2
OFF	Turned off

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Example

(Setting)

```
>ASELH=H
< i:OK
```

(Reference)

```
> GET=ASELH
< g:ASELH=H
```

Note: '>' indicates a command; '<' indicates a response.

ASELL

LAN audio input terminal selection

Format

Setting	Command	ASELL=<LAN audio terminal selection parameter:ID>
	Response	i:OK
Reference	Command	GET=ASELL
	Response	g:ASELL=<LAN audio terminal selection parameter:ID>

Note: See "Error list" for any response other than the above.

<LAN audio terminal selection parameter:ID>

Parameter	Meaning
L	LAN audio
1	Audio In 1
2	Audio In 2
OFF	Turned off

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

(Setting)
 >ASELL=L
 < i:OK

(Reference)
 > GET=ASELL
 < g:ASELL=L

Note: '>' indicates a command; '<' indicates a response.

ASELU

USB audio input terminal selection

Format

Setting	Command	ASELU=<USB audio terminal selection parameter:ID>
	Response	i:OK
Reference	Command	GET=ASELU
	Response	g:ASELU=<USB audio terminal selection parameter:ID>

Note: See "Error list" for any response other than the above.

<USB audio terminal selection parameter:ID>

Parameter	Meaning
1	Audio In 1
2	Audio In 2
OFF	Turned off

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

(Setting)
 >ASELU=1
 < i:OK

(Reference)
 > GET=ASELU
 < g:ASELU=1

Note: '>' indicates a command; '<' indicates a response.

ASPECT

Aspect ratio

Format

Setting	Command	ASPECT=<Screen setting parameters:ID>
	Response	i:OK
Reference	Command	GET=ASPECT
	Response	g:ASPECT=<Screen setting parameters:ID>

Note: See "Error list" for any response other than the above.

< Screen setting parameters:ID >

Parameter	Meaning
AUTO	Auto
4:3	4:3
16:9	16:9
16:10	16:10
ZOOM	Zoom
TRUE	Real

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) Aspect setting may be automatically changed by other setting when the input terminal is changed or input signal is disturbed.

Example

```
(Setting)
>ASPECT=16:10
< i:OK

(Reference)
> GET=ASPECT
< g:ASPECT=16:10
```

Note: '>' indicates a command; '<' indicates a response.

AUTOPC

Auto PC

Format

Setting	Command	AUTOPC
	Response	i:OK
Reference	Command	-
	Response	-

Note: See "Error list" for any response other than the above.

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		No	Yes	No	No	No	No	No

Remarks

(1) Execution of this command may modify the following setting values.

- Total number of dots
- Tracking
- Horizontal / vertical positions
- Number of horizontal / vertical display dots

(2) To verify changes in setting values, use the GET command with appropriate parameters.

For details, see the following GET commands.

Setting value	Reference command
Total number of dots	GET=DOTS
Tracking	GET=TRACK
Horizontal position	GET=HPOS
Vertical position	GET=VPOS
Number of horizontal display dots	GET=HPIX
Number of vertical display dots	GET=VPIX

Example

```
>AUTOPC
< i:OK
```

Note: '>' indicates a command; '<' indicates a response.

AUTOSETEXE

Auto setup

Format

Setting	Command	AUTOSETEXE=<Auto setup parameter:ID>
	Response	i:OK
Reference	Command	—
	Response	—

Note: See "Error list" for any response other than the above.

< Auto setup parameter:ID >

Parameter	Meaning
INPUT	Runs auto input

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

```
(Setting)
>AUTOSETEXE=INPUT
< i:OK
```

Note: '>' indicates a command; '<' indicates a response.

AVOL

Audio volume adjustment

Format

Setting	Command	AVOL=<Audio volume:Number>
	Response	i:OK
Reference	Command	GET= AVOL
	Response	g:AVOL=<Audio volume:Number>

Note: See "Error list" for any response other than the above.

Setting values for <Audio volume:Number> are 0 to 20.

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) Audio mute setting is canceled if audio volume is adjusted during audio mute.

Example

(Setting)
 >AVOL=10
 < i:OK

(Reference)
 > GET=AVOL
 < g:AVOL=10

Note: '>' indicates a command; '<' indicates a response.

BLANK

Screen blank

Format

Setting	Command	BLANK=<BLANK parameter:ID>
	Response	i:OK
Reference	Command	GET=BLANK
	Response	g:BLANK=<BLANK parameter:ID>

Note: See "Error list" for any response other than the above.

< BLANK parameter:ID >

Parameter	Meaning
ON	BLANK ON
OFF	BLANK OFF

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) Executing this command in a FREEZE status will cancel the FREEZE status and become BLANK.

Example

(Setting)

> BLANK=ON

< i:OK

(Reference)

> GET=BLANK

< g:BLANK=ON

Note: '>' indicates a command; '<' indicates a response.

BRI

Brightness

Format

Setting	Command	BRI=<Brightness setting:Number>
	Response	i:OK
Reference	Command	GET=BRI
	Response	g:BRI=<Brightness setting:Number>

Note: See "Error list" for any response other than the above.

Setting values for <Brightness setting:Number> are -20 to 20.

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)

> BRI=3

< i:OK

(Reference)

> GET=BRI

< g:BRI=3

Note: '>' indicates a command; '<' indicates a response.

COLOR_TEMP

Color temperature

Format

Setting	Command	COLOR_TEMP=<Color temperature setting:Number>
	Response	i:OK
Reference	Command	GET=COLOR_TEMP
	Response	g:COLOR_TEMP=<Color temperature setting:Number>

Note: See "Error list" for any response other than the above.

Setting values for <Color temperature setting:Number> are -17 to 21.

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)

> COLOR_TEMP=3

< i:OK

(Reference)

> GET=COLOR_TEMP

< g:COLOR_TEMP=3

Note: '>' indicates a command; '<' indicates a response.

COMVER

User command version reference

Format

Setting	Command	—
	Response	—
Reference	Command	GET=COMVER
	Response	g:COMVER="<User command version:Character string>

Note: See "Error list" for any response other than the above.

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) User command version consists of <2-digit number> and <4-digit number>. (Example "01.1234")

Example

```
> GET=COMVER
< g:COMVER="01.1234"
```

Note: '>' indicates a command; '<' indicates a response.

CONT

Contrast

Format

Setting	Command	CONT=<Contrast setting:Number>
	Response	i:OK
Reference	Command	GET=CONT
	Response	g:CONT=<Contrast setting:Number>

Note: See "Error list" for any response other than the above.

Setting values for <Contrast setting:Number> are -20 to 20.

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)
 > CONT=3
 < i:OK

(Reference)
 > GET=CONT
 < g:CONT=3

Note: '>' indicates a command; '<' indicates a response.

DGAMMA

Dynamic gamma

Format

Setting	Command	DGAMMA=<Dynamic gamma setting parameter:ID>
	Response	i:OK
Reference	Command	GET=DGAMMA
	Response	g:DGAMMA=<Dynamic gamma setting parameter:ID>

Note: See "Error list" for any response other than the above.

< Dynamic gamma setting parameter:ID >

Parameter	Meaning
OFF	Turned off
WEAK	Weak
MIDDLE	Middle
STRONG	Strong

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)
 > DGAMMA=WEAK
 < i:OK

(Reference)
 > GET=DGAMMA
 < g:DGAMMA=WEAK

Note: '>' indicates a command; '<' indicates a response.

DZOOM_POS

Zoom display position

Format

Setting	Command	DZOOM_POS=<DZOOM position No:Number>, <DZOOM position Y:Number>
	Response	i:OK
Reference	Command	GET= DZOOM_POS
	Response	g:DZOOM_POS=<DZOOM position No:Number>, <DZOOM position Y:Number>

Note: See "Error list" for any response other than the above.

<DZOOM position No / Y:Number> is a signed integer indicating the central position of the enlarged input image.

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	

Remarks

- (1) This command is identical to pressing the arrow keys to move while DZOOM is enabled, however, the position can be specified in more detail.
- (2) If a position outside the range is specified, the position is automatically moved to the nearest position within the range.
- (3) 0 for <DZOOM position No / Y:Number> indicates the center position of the input image.
- (4) Positive direction for <DZOOM position No / Y:Number> corresponds to RIGHT and UP keys, and negative direction corresponds to LEFT and DOWN keys.
- (5) The numerical value for <DZOOM position No / Y:Number> represents units in pixels of the input image.

* For example, in a case where an input image of XGA (1024 x 768) size is enlarged twice the size (range of 512 x 384 is displayed), up to ± 256 for <DZOOM position No:Number>, and up to ± 192 for <DZOOM position Y:Number> can be specified.

Example

```
(Control)
> DZOOM_POS=100,200
< i:OK
```

```
(Reference)
> GET=DZOOM_POS
< g:DZOOM_POS=100,200
```

Note: '>' indicates a command; '<' indicates a response.

DZOOM_RATIO

Zoom display ratio

Format

Setting	Command	DZOOM_RATIO=<DZOOM ratio parameter:ID>
	Response	i:OK
Reference	Command	GET=DZOOM_RATIO
	Response	g: DZOOM_RATIO=<DZOOM ratio parameter:ID>

Note: See "Error list" for any response other than the above.

< DZOOM ratio parameter:ID >

Parameter	Meaning
1	same size (DZOOM disabled)
1.5	1.5x
2	2x
3	3x
4	4x
5	5x
6	6x
8	8x
10	10x
12	12x

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	

Remarks

- (1) If DZOOM is disabled and the zoom ratio is set to a value other than "1", DZOOM is enabled, and the ratio is displayed in the lower right of the screen.
- (2) If DZOOM is enabled and the zoom ratio is set to "1", DZOOM is disabled, and the ratio disappears from the lower right of the screen.

Example

(Control)

> DZOOM_RATIO=12

< i:OK

(Reference)

> GET=DZOOM_RATIO

< g:DZOOM_RATIO=12

Note: '>' indicates a command; '<' indicates a response.

ERR

Error information reference

Format

Setting	Command	—
	Response	—
Reference	Command	GET=ERR
	Response	g:ERR=<ErrorID:Character string>

Note: See "Error list" for any response other than the above.

<ErrorID:Character string>

Parameter	Meaning
NO_ERROR	No error
ABNORMAL_TEMPERATURE	Temperature error
FAULTY_LAMP	Lamp error
FAULTY_LAMP_COVER	Lamp cover error
FAULTY_COOLING_FAN	Cooling fan error
FAULTY_POWER_SUPPLY	Power supply error
FAULTY_AIR_FILTER	Air filter error
FAULTY_POWER_ZOOM	Zoom error
FAULTY_POWER_FOCUS	Focus error
FAULTY_POWER_LENS_SHIFT	Lens shift error
FAULTY_LENS_CONNECTOR	Lens connector error

Environment

Power mode restriction								Input							
LAN				RS-232C											
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- Information when the warning LED of the projector is flashing can be obtained.
NO_ERROR is returned when the warning LED is not lighted.

Example

```
>GET=ERR
< g:ERR=FAULTY_LANP
```

Note: '>' indicates a command; '<' indicates a response.

FINE_GAMMA_R

Fine gamma (R) adjustment

Format

Setting	Command	FINE_GAMMA_R=<Fine gamma (R) adjustment point 1 adjustment value:Number>,<Fine gamma (R) adjustment point 2 adjustment value:Number>,. . .,<Fine gamma (R) adjustment point n adjustment value:Number>
	Response	i:OK
Reference	Command	GET=FINE_GAMMA_R
	Response	g: FINE_GAMMA_R=<Fine gamma (R) adjustment point 1 adjustment value:Number>,<Fine gamma (R) adjustment point 2 adjustment value:Number>,. . .,<Fine gamma (R) adjustment point n adjustment value:Number>

Note: See "Error list" for any response other than the above.

Adjustment values for <Fine gamma (R) adjustment point n adjustment value:Number> are 0 to 1024.

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) This sets the currently selected input signal and image mode.
- (2) In the projector menu, the difference between adjustment point 1 and adjustment point 9 is controlled so that it is 128 or greater, but this limitation does not apply to settings specified from user commands.

Example

(Setting)

```
> FINE_GAMMA_R=0,128,256,384,512,640,768,896,1024
< i:OK
```

(Reference)

```
> GET=FINE_GAMMA_R
< g:FINE_GAMMA_R=9:0,128,256,384,512,640,768,896,1024
```

Note: '>' indicates a command; '<' indicates a response.

FINE_GAMMA_G

Fine gamma (G) adjustment

Format

Setting	Command	FINE_GAMMA_G=<Fine gamma (G) adjustment point 1 adjustment value:Number>,<Fine gamma (G) adjustment point 2 adjustment value:Number>,. . .,<Fine gamma (G) adjustment point n adjustment value:Number>
	Response	i:OK
Reference	Command	GET=FINE_GAMMA_G
	Response	g: FINE_GAMMA_G=<Fine gamma (G) adjustment point 1 adjustment value:Number>,<Fine gamma (G) adjustment point 2 adjustment value:Number>,. . .,<Fine gamma (G) adjustment point n adjustment value:Number>

Note: See "Error list" for any response other than the above.

Adjustment values for <Fine gamma (R) adjustment point n adjustment value:Number> are 0 to 1024.

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) This sets the currently selected input signal and image mode.
- (2) In the projector menu, the difference between adjustment point 1 and adjustment point 9 is controlled so that it is 128 or greater, but this limitation does not apply to settings specified from user commands.

Example

(Setting)

```
> FINE_GAMMA_G=0,128,256,384,512,640,768,896,1024
< i:OK
```

(Reference)

```
> GET=FINE_GAMMA_G
< g:FINE_GAMMA_G=9:0,128,256,384,512,640,768,896,1024
```

Note: '>' indicates a command; '<' indicates a response.

FINE_GAMMA_B

Fine gamma (B) adjustment

Format

Setting	Command	FINE_GAMMA_B=<Fine gamma (B) adjustment point 1 adjustment value:Number>,<Fine gamma (B) adjustment point 2 adjustment value:Number>, . . . ,<Fine gamma (B) adjustment point n adjustment value:Number>
	Response	i:OK
Reference	Command	GET=FINE_GAMMA_B
	Response	g: FINE_GAMMA_B=<Fine gamma (B) adjustment point 1 adjustment value:Number>,<Fine gamma (B) adjustment point 2 adjustment value:Number>, . . . ,<Fine gamma (B) adjustment point n adjustment value:Number>

Note: See "Error list" for any response other than the above.

Adjustment values for <Fine gamma (R) adjustment point n adjustment value:Number> are 0 to 1024.

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.
- (2) In the projector menu, the difference between adjustment point 1 and adjustment point 9 is controlled so that it is 128 or greater, but this limitation does not apply to settings specified from user commands.

Example

(Setting)

```
> FINE_GAMMA_B=0,128,256,384,512,640,768,896,1024
< i:OK
```

(Reference)

```
> GET=FINE_GAMMA_B
< g:FINE_GAMMA_B=9:0,128,256,384,512,640,768,896,1024
```

Note: '>' indicates a command; '<' indicates a response.

FLTWRN

Air filter cleaning warning

Format

Setting	Command	FLTWRN=<Filter warning parameter:ID>
	Response	i:OK
Reference	Command	GET= FLTWRN
	Response	g: FLTWRN=<Filter warning parameter:ID>

Note: See "Error list" for any response other than the above.

FLTWRN=<Filter warning parameter:ID>

Parameter	Meaning
OFF	Turned off
ON	Turned on

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Example

(Setting)
 >FLTWRN=OFF
 < i:OK

(Reference)
 >GET=FLTWRN
 < g:FLTWRN=OFF

Note: '>' indicates a command; '<' indicates a response.

FNBND

[Fn] button setting

Format

Setting	Command	FNBND=<[Fn] button setting parameter :ID>
	Response	i:OK
Reference	Command	GET= FNBND
	Response	g: FNBND=<[Fn] button setting parameter :ID>

Note: See "Error list" for any response other than the above.

<[Fn] button setting parameter :ID>

Parameter	Meaning
DISABLE	Disabled
SPLT	Split screen

Environment

Power mode restriction									Input						
LAN					RS-232C				D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
SL0	SL1	SL3	PM	ON	ST	PM	ON								
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	

Example

(Setting)

>FNBND=SPLT

< i:OK

(Reference)

>GET=FNBND

< g:FNBND=SPLT

Note: '>' indicates a command; '<' indicates a response.

FREEZE

Screen freeze

Format

Setting	Command	FREEZE=<FREEZE parameter:ID>
	Response	i:OK
Reference	Command	GET= FREEZE
	Response	g: FREEZE=<FREEZE parameter:ID>

Note: See "Error list" for any response other than the above.

< FREEZE parameter:ID >

Parameter	Meaning
ON	On
OFF	Off

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	

Example

(Setting)

>FREEZE=ON

< i:OK

(Reference)

>GET=FREEZE

< g:FREEZE=ON

Note: '>' indicates a command; '<' indicates a response.

GAMMA

Gamma adjustment

Format

Setting	Command	GAMMA=<Gamma adjustment:Number>
	Response	i:OK
Reference	Command	GET=GAMMA
	Response	g: GAMMA=<Gamma adjustment:Number>

Note: See "Error list" for any response other than the above.

Setting values for <Gamma adjustment: Number> are -10 to 10.

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)

>GAMMA=-1

< i:OK

(Reference)

>GET=GAMMA

< g:GAMMA=-1

Note: '>' indicates a command; '<' indicates a response.

HDMI_IN

HDMI input setting

Format

Setting	Command	HDMI_IN=<HDMI input setting parameter:ID>
	Response	i:OK
Reference	Command	GET= HDMI_IN
	Response	g: HDMI_IN=<HDMI input setting parameter:ID>

Note: See "Error list" for any response other than the above.

< HDMI input setting parameter:ID >

Parameter	Meaning
AUTO	Incoming HDMI signals (HDMI input) are treated as AV source.
PC	Incoming HDMU signals (HDMI input) are treated as PC source.

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Example

(Setting)
 >HDMI_IN=AUTO
 < i:OK

(Reference)
 >GET=HDMI_IN
 < g:HDMI_IN=AUTO

Note: '>' indicates a command; '<' indicates a response.

HDMI_OVSCAN

HDMI overscan setting

Format

Setting	Command	HDMI_OVSCAN=<HDMI overscan setting parameter:ID>
	Response	i:OK
Reference	Command	GET= HDMI_OVSCAN
	Response	g:HDMI_OVSCAN=<HDMI overscan setting parameter:ID>

Note: See "Error list" for any response other than the above.

<HDMI overscan setting parameter:ID>

Parameter	Meaning
OFF	Turns overscan to OFF
ON	Turns overscan to ON

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	No	No	No	Yes	No	No	Yes

Remarks

- (1) The setting is fixed to [OFF] depending on the setting status of other functions or the status of the input signal.

Example

(Setting)

>HDMI_OVSCAN=ON

< i:OK

(Reference)

>GET=HDMI_OVSCAN

< g:HDMI_OVSCAN=ON

Note: '>' indicates a command; '<' indicates a response.

HTMPINF

High temperature caution display

Format

Setting	Command	HTMPINF=<High temperature caution display setting parameter:ID>
	Response	i:OK
Reference	Command	GET= HTMPINF
	Response	g:HTMPINF=<High temperature caution display setting parameter:ID>

Note: See "Error list" for any response other than the above.

<High temperature caution display setting parameter:ID>

Parameter	Meaning
ON	Turned on
OFF	Turned off

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

(Setting)

>HTMPINF=ON

< i:OK

(Reference)

>GET=HTMPINF

< g:HTMPINF=ON

Note: '>' indicates a command; '<' indicates a response.

HUE

Hue setting

Format

Setting	Command	HUE=<Hue setting value:Number>
	Response	i:OK
Reference	Command	GET= HUE
	Response	g:HUE=<Hue setting value:Number>

Note: See "Error list" for any response other than the above.

Setting values for <Hue setting value:Number> are -20 to 20.

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)
>HUE=8
< i:OK

(Reference)
>GET=HUE
< g:HUE=1

Note: '>' indicates a command; '<' indicates a response.

IMAGE

Image mode setting

Format

Setting	Command	IMAGE=<Image mode setting parameter:ID>
	Response	i:OK
Reference	Command	GET= IMAGE
	Response	g: IMAGE=<Image mode setting parameter:ID>

Note: See "Error list" for any response other than the above.

<Image mode setting parameter:ID>

Parameter	Meaning
STANDARD	Standard
PRESENTATION	Presentation
VIVID_PHOTO	Vivid photo
PHOTO_SRGB	Photo / sRGB
DYNAMIC	Dynamic
VIDEO	Video
CINEMA	Cinema
USER_1	User 1
USER_2	User 2
USER_3	User 3
USER_4	User 4
USER_5	User 5

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) When Image Mode setting is changed, the following set of setting items are reapplied as these sets are unique to the individual image modes.

Example

(Setting)

>IMAGE=STANDARD

< i:OK

(Reference)

>GET=IMAGE

< g:IMAGE=STANDARD

Note: '>' indicates a command; '<' indicates a response.

IMAGEFLIP

Flip display

Format

Setting	Command	IMAGEFLIP=<Image flip setting parameters:ID>
	Response	i:OK
Reference	Command	GET= IMAGEFLIP
	Response	g: IMAGEFLIP=<Image flip setting parameters:ID>

Note: See "Error list" for any response other than the above.

< Image flip setting parameters:ID >

Parameter	Meaning
NONE	None
CEILING	Ceiling mount (upside down and right side left)
REAR	Rear (right side left)
REAR_CEILING	Rear, ceiling mount (upside down)

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) When the display is flipped, the "keystone distortion" settings (HKS, VKS, 4CNR) are initialized.

Example

(Setting)
 >IMAGEFLIP=REAR
 < i:OK

(Reference)
 >GET=IMAGEFLIP
 < g:IMAGEFRIP=REAR_CEILING

Note: '>' indicates a command; '<' indicates a response.

INPUT

Input signal selection

Format

Setting	Command	INPUT=<Input selection parameters:ID>
	Response	i:OK
Reference	Command	GET= INPUT
	Response	g: INPUT=<Input selection parameters:ID>

Note: See "Error list" for any response other than the above.

< Image flip setting parameters:ID >

Parameter	Meaning
HDMI	HDMI
D-RGB	Digital PC
A-RGB1	Analog PC-1
A-RGB2	Analog PC-2
COMP	Component
LAN	LAN
USB	USB

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Example

(Setting)

>INPUT=D-RGB

< i:OK

(Reference)

>GET=INPUT

< g:INPUT=D-RGB

Note: '>' indicates a command; '<' indicates a response.

KREP

Key repeat

Format

Setting	Command	KREP=<Key repeat parameter:ID>
	Response	i:OK
Reference	Command	GET=KREP
	Response	g:KREP=<Key repeat parameter:ID>

Note: See "Error list" for any response other than the above.

< Key repeat parameter:ID>

Parameter	Meaning
OFF	Turned off
ON	Turned on

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Example

(Setting)
 >KREP=OFF
 < i:OK

(Reference)
 >GET=KREP
 < g:KREP=OFF

Note: '>' indicates a command; '<' indicates a response.

LAMP

Lamp mode

Format

Setting	Command	LAMP=<Lamp output setting parameters:ID>
	Response	i:OK
Reference	Command	GET=LAMP
	Response	g:LAMP=<Lamp output setting parameters:ID>

Note: See "Error list" for any response other than the above.

< Lamp output setting parameters:ID >

Parameter	Meaning
FULL	Full power
ECO	Eco

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)
 >LAMP=ECO
 < i:OK

(Reference)
 >GET=LAMP
 < g:LAMP=ECO

Note: '>' indicates a command; '<' indicates a response.

LAMPCOUNTER

Lamp counter reference

Format

Setting	Command	-
	Response	-
Reference	Command	GET=LAMPCOUNTER
	Response	g:LAMPCOUNTER="<Lamp ON time:Character string>

Note: See "Error list" for any response other than the above.

< Lamp ON time:Character string >

Lamp counter	ON time:H
"[G_____]"	0 to 539
"[GG_____]"	540 to 1079
"[GGG_____]"	1080 to 1619
"[GGGG_____]"	1620 to 2159
"[GGGGG_____]"	2160 to 2699
"[GGGGGY_____]"	2700 to 2849
"[GGGGGY_]"	2850 to 2999
"[GGGGGYR]"	3000 or longer

Environment

Power mode restriction								Input						
LAN				RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

```
>GET=LAMPCOUNTER
< g:LAMPCOUNTER="[GG_]"
```

Note: '>' indicates a command; '<' indicates a response.

LMPWRN

Lamp replacement warning

Format

Setting	Command	LMPWRN=<Lamp warning parameter:ID>
	Response	i:OK
Reference	Command	GET=LMPWRN
	Response	g: LMPWRN=<Lamp warning parameter:ID>

Note: See "Error list" for any response other than the above.

< Lamp warning parameter:ID>

Parameter	Meaning
OFF	Turned off
ON	Turned on

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

(Setting)
 >LMPWRN=OFF
 < i:OK

(Reference)
 >GET=LMPWRN
 < g:LMPWRN

Note: '>' indicates a command; '<' indicates a response.

LPOSLD

Lens position load

Format

Setting	Command	LPOSLD=<Lens position load setting parameter:ID>
	Response	i:OK
Reference	Command	-
	Response	-

Note: See "Error list" for any response other than the above.

<Lens position load setting parameter:ID>

Parameter	Meaning
1	Position load 1
2	Position load 2
3	Position load 3

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This command cannot be used if a position has not been saved.
- (2) This is not a user command for saving positions. To save a position, use the menu.

Example

```
(Setting)
>LPOSLD=1
< i:OK
```

Note: '>' indicates a command; '<' indicates a response.

MAIN

Unit control panel emulation

Format

Setting	Command	MAIN=<Side control emulation button parameters:ID>
	Response	i:OK
Reference	Command	-
	Response	-

Note: See "Error list" for any response other than the above.

< Side control emulation button parameters:ID >

Parameter	Meaning	
	Operation	Remarks
POWER	POWER	
POWER_OFF	-	Power OFF
MENU	MENU	
LENS	LENS	
INPUT	INPUT	
AUTOPC	AUTOPC	
KEystone	KEystone	
UP	UP	
UP+REP		Button press start
DOWN	DOWN	
DOWN +REP		Button press start
LEFT	LEFT	
LEFT +REP		Button press start
RIGHT	RIGHT	
RIGHT +REP		Button press start
OK	OK	
*-REP	-	Button press end

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- Parameters with "+REP" indicates "Button press start" (same state as when the front panel button is held down).
Be absolutely sure to send the '*-REP' parameter, and end the button pressing last of all.
The button pressing is ended in the cases below as well.
When buttons on the panel or the remote are operated
When some command has been received
- When ceiling mount setting is made, functions of UP/DOWN/LEFT/RIGHT buttons on the unit control panel are reversed. But the "MAIN" command's UP/DOWN/LEFT/RIGHT are unaffected and always work in the same way as when installed on the floor.
- Adjust the time between each button press using the application.
- When a button press request is accepted properly, the projector returns "i:OK" even when the function is inexecutable.
- All parameters except "Power" are invalid during standby mode.

■ Example

(Setting)
>MAIN=MENU
< i:OK

Note: '>' indicates a command; '<' indicates a response.

MEMF

Memory color adjustment (flesh)

Format

Setting	Command	MEMF=<Memory color adjustment parameter:ID>
	Response	i:OK
Reference	Command	GET=MEMF
	Response	g:MEMF=<Memory color adjustment parameter:ID>

Note: See "Error list" for any response other than the above.

< Memory color adjustment parameter:ID >

Parameter	Meaning
OFF	Turned off
WEAK	Weak
MIDDLE	Middle
STRONG	Strong

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Control)

>MEMF=MIDDLE

< i:OK

(Reference)

> GET=MEMF

< g:MEMF=MIDDLE

Note: '>' indicates a command; '<' indicates a response.

MEMG

Memory color adjustment (green)

Format

Setting	Command	MEMG=<Memory color adjustment parameter:ID>
	Response	i:OK
Reference	Command	GET=MEMG
	Response	g:MEMG=<Memory color adjustment parameter:ID>

Note: See "Error list" for any response other than the above.

< Memory color adjustment parameter:ID >

Parameter	Meaning
OFF	Turned off
WEAK	Weak
MIDDLE	Middle
STRONG	Strong

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Control)

>MEMG=MIDDLE

< i:OK

(Reference)

> GET=MEMG

< g:MEMG=MIDDLE

Note: '>' indicates a command; '<' indicates a response.

MEMS

Memory color adjustment (sky)

Format

Setting	Command	MEMS=<Memory color adjustment parameter:ID>
	Response	i:OK
Reference	Command	GET=MEMS
	Response	g:MEMS=<Memory color adjustment parameter:ID>

Note: See "Error list" for any response other than the above.

< Memory color adjustment parameter:ID >

Parameter	Meaning
OFF	Turned off
WEAK	Weak
MIDDLE	Middle
STRONG	Strong

Environment

Power mode restriction								Input							
LAN				RS-232C											
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Control)

>MEMS=MIDDLE

< i:OK

(Reference)

> GET=MEMS

< g:MEMS=MIDDLE

Note: '>' indicates a command; '<' indicates a response.

MUTE

Mute control

Format

Setting	Command	MUTE=<Mute control parameter:ID>
	Response	i:OK
Reference	Command	GET=MUTE
	Response	g:MUTE=<Mute control parameter:ID>

Note: See "Error list" for any response other than the above.

< Mute control parameter:ID>

Parameter	Meaning
ON	Disables the audio / beep sound.
OFF	Enables the audio / beep sound.

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) Mute setting is always set to "OFF" after the projector is turned on.
- (2) Audio mute is canceled if audio volume is adjusted when audio mute is enabled.

Example

(Setting)

>MUTE=ON

< i:OK

(Reference)

> GET=MUTE

< g:MUTE=ON

Note: '>' indicates a command; '<' indicates a response.

NR
Random noise reduction

Format

Setting	Command	NR=<Random noise reduction setting parameter:ID>
	Response	i:OK
Reference	Command	GET=NR
	Response	g: NR=<Random noise reduction setting parameter:ID>

Note: See "Error list" for any response other than the above.

<Random noise reduction setting parameter:ID>

Parameter	Meaning
OFF	Turned off
WEAK	Weak
MIDDLE	Middle
STRONG	Strong

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)
>NR=MIDDLE
< i:OK

(Reference)
> GET=NR
< g:NR=MIDDLE

Note: '>' indicates a command; '<' indicates a response.

NRMPG

MPEG noise reduction

Format

Setting	Command	NRMPG=<MPEG noise reduction setting parameter:ID>
	Response	i:OK
Reference	Command	GET=NRMPG
	Response	g:NRMPG=<MPEG noise reduction setting parameter:ID>

Note: See "Error list" for any response other than the above.

< MPEG noise reduction setting parameter:ID >

Parameter	Meaning
OFF	Turned off
WEAK	Weak
MIDDLE	Middle
STRONG	Strong

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)
 >NRMPG=MIDDLE
 < i:OK

(Reference)
 > GET=NRMPG
 < g:NRMPG=MIDDLE

Note: '>' indicates a command; '<' indicates a response.

NRMSQT

Mosquito noise reduction

Format

Setting	Command	NRMSQT=<Mosquito noise reduction setting parameter:ID>
	Response	i:OK
Reference	Command	GET=NRMSQT
	Response	g:NRMSQT=<Mosquito noise reduction setting parameter:ID>

Note: See "Error list" for any response other than the above.

<Mosquito noise reduction setting parameter:ID>

Parameter	Meaning
OFF	Turned off
WEAK	Weak
MIDDLE	Middle
STRONG	Strong

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	No	No	No	No	Yes	Yes	Yes	

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)
 >NRMSQT=MIDDLE
 < i:OK

(Reference)
 > GET=NRMSQT
 < g:NRMSQT=MIDDLE

Note: '>' indicates a command; '<' indicates a response.

POWER

Power supply control

Format

Setting	Command	POWER=<power control parameter:ID>
	Response	i:OK
Reference	Command	GET= POWER
	Response	g: POWER = < Power mode parameter:ID >

Note: See "Error list" for any response other than the above.

< Power control parameter:ID >

Parameter	Meaning
ON	Power ON
OFF	Power OFF

< Power mode parameter:ID >

Parameter	Meaning
OFF	Power OFF
OFF2ON	OFF -> ON in transition
ON	Power ON
ON2OFF	ON -> OFF in transition
PMM	Lamp OFF
PMM2ON	Lamp OFF -> ON in transition
ON2OFF	ON -> OFF in transition

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) Lamp Replacement Preparation, "Lamp Replacement Warning," and ""Air Filter Cleaning Warning" are displayed for 10 seconds, regardless of whether the projector was started by the button or command.
- (2) Note that there are different parameters for the setting command and the reference command.

Example

(Control)

>POWER=ON

<i:OK

(Reference)

>GET=POWER

< g:POWER=OFF

Note: '>' indicates a command; '<' indicates a response.

PRODCODE

Product name inquiry

Format

Setting	Command	-
	Response	-
Reference	Command	GET= PRODCODE
	Response	g: PRODCODE="<Product name:Character string>

Note: See "Error list" for any response other than the above.

< Product name:Character string >

Parameter	Meaning
WUX6000	WUX6000

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Example

```
>GET=PRODCODE
< g:PRODCODE="WUX6000"
```

Note: '>' indicates a command; '<' indicates a response.

RC

Remote control operation emulate

Format

Setting	Command	RC=<Remote control emulation button parameters:ID>
	Response	i:OK
Reference	Command	-
	Response	-

Note: See "Error list" for any response other than the above.

< Remote control emulation button parameters:ID >

Parameter	Meaning	
	Operation	Remarks
POWER	POWER	
POWER_OFF	-	Power OFF
MENU	MENU	
EXIT	EXIT	
INPUT	INPUT	
DPC	DIGITAL	
APC1	ANALOG PC1	
APC2	ANALOG PC2	
HDMI	HDMI	
COMP	COMPONENT	
ASPECT	ASPECT	
AUTOPC	AUTOPC	
UP	UP	
UP+REP		Button press start
DOWN	DOWN	
DOWN+REP		Button press start
LEFT	LEFT	
LEFT+REP		Button press start
RIGHT	RIGHT	
RIGHT+REP		Button press start
OK	OK	
FOCUS	FOCUS	
ZOOM	ZOOM	
SHIFT	SHIFT	
TPTN	TEST PATTERN	
KEYSTONE	KEYSTONE	
NUM_0	0	
NUM_1	1	
NUM_2	2	
NUM_3	3	
NUM_4	4	
NUM_5	5	
NUM_6	6	
NUM_7	7	
NUM_8	8	
NUM_9	9	
DZOOM_P	DZOOM +	
DZOOM_P+REP		Button press start

DZOOM_M	DZOOM -	
DZOOM_M+REP		Button press start
VOL_P	VOL +	
VOL_P+REP	VOL +	Button press start
VOL_M	VOL -	
VOL_M+REP	VOL -	Button press start
MUTE	MUTE	
FN	FN	
IMAGE	IMAGE	
FREEZE	FREEZE	
BLANK	BLANK	
GAMMA	GAMMA	
SPLIT	SPLIT	
ECO	ECO	
*-REP	-	Button press end

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) A parameter with '+REP' signifies "button press start". (This is the same as the status in which the remote control button is held down.)
 When executing these commands, be sure to send '*-REP' at the end to finish the button press.
 The button pressing is ended in the cases below as well.
 When buttons on the panel or the remote are operated
 When some command has been received
- (2) When a button press request is accepted properly, "i:OK" is returned.
 (without notifying the resulting execution of button operation)

Example

```
(Setting)
>RC=POWER
< i:OK
```

Note: '>' indicates a command; '<' indicates a response.

RGBGAIN

RGB gain adjustment

Format

Setting	Command	RGBGAIN=<R gain setting:Number>,<G gain setting:Number>,<B gain setting:Number>
	Response	i:OK
Reference	Command	GET=RGBGAIN
	Response	g:RGBGAIN=<R gain setting:Number>,<G gain setting:Number>,<B gain setting:Number>

Note: See "Error list" for any response other than the above.

Setting values for <R/G/B gain setting:Number> are -60 to 60.

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)

>RGBGAIN=10,11,12

< i:OK

(Reference)

> GET=RGBGAIN

< g:RGBGAIN=-10,0,19

Note: '>' indicates a command; '<' indicates a response.

RGBOFFSET

RGB offset adjustment

Format

Setting	Command	RGBOFFSET=<R offset setting:Number>, <G offset setting:Number>,<B offset setting:Number>
	Response	i:OK
Reference	Command	GET=RGBOFFSET
	Response	g:RGBOFFSET=<R offset setting:Number>, <G offset setting:Number>,<B offset setting:Number>

Note: See "Error list" for any response other than the above.

Setting values for <R/G/B offset setting:Number> are -60 to 60.

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)

>RGBOFFSET=10,11,12

< i:OK

(Reference)

> GET=RGBOFFSET

< g:RGBOFFSET=-10,0,19

Note: '>' indicates a command; '<' indicates a response.

ROMVER

Firmware version inquiry

Format

Setting	Command	-
	Response	-
Reference	Command	GET=ROMVER
	Response	g:ROMVER="<ROM version:Character string>

Note: See "Error list" for any response other than the above.

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Example

```
> GET=ROMVER
< g:ROMVER="01.234567_12345"
```

Note: '>' indicates a command; '<' indicates a response.

SAT

Color saturation setting

Format

Setting	Command	SAT=<Color saturation setting value:Number>
	Response	i:OK
Reference	Command	GET=SAT
	Response	g:SAT=<Color saturation setting value:Number>

Note: See "Error list" for any response other than the above.

Setting values for <Color saturation setting value:Number> are -20 to 20.

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)

>SAT=-10

< i:OK

(Reference)

> GET=SAT

< g:SAT=1

Note: '>' indicates a command; '<' indicates a response.

SAVEIMGPROF

User memory creation/storage/deletion

Format

Setting	Command	SAVEIMGPROF=<User memory save to parameter:ID>
	Response	i:OK
Reference	Command	GET=SAVEIMGPROF
	Response	g:SAVEIMGPROF=<Number of user memories>:<User 1 present parameter>,<User 2 present parameter>,<User 3 present parameter>,<User 4 present parameter>,<User 5 present parameter>'

Note: See "Error list" for any response other than the above.

< User memory save to parameter:ID >

Parameter	Meaning
USER_1	Save to User 1
USER_2	Save to User 2
USER_3	Save to User 3
USER_4	Save to User 4
USER_5	Save to User 5
DEL_ALL	Delete all User memory

< User memory presence parameter:ID >

Parameter	Meaning
0	User memory not created
1	User memory created

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

(Setting)
 >SAVEIMGPROF=USER_2
 < i:OK

(Reference)
 > GET=SAVEIMGPROF
 < g:SAVEIMGPROF=5:1,0,1,0,0

Note: '>' indicates a command; '<' indicates a response.

SCRNASPECT

Screen aspect setting

Format

Setting	Command	SCRNASPECT=<Screen aspect setting parameter:ID>
	Response	i:OK
Reference	Command	GET=SCRNASPECT
	Response	g:SCRNASPECT=<Screen aspect setting parameter:ID>

Note: See "Error list" for any response other than the above.

< User memory save to parameter:ID >

Parameter	Meaning
16:10	16:10
16:9	16:9
4:3	4:3
16:9_DIS	16:9 digital image shift
4:3_DIS	4:3 digital image shift

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

(Setting)
 >SCRNASPECT=16:10
 < i:OK

(Reference)
 > GET=SCRNASPECT
 < g:SCRNASPECT=16:10

Note: '>' indicates a command; '<' indicates a response.

SHARP

Sharpness setting

Format

Setting	Command	SHARP=<Sharpness setting:Number>
	Response	i:OK
Reference	Command	GET=SHARP
	Response	g:SHARP=<Sharpness setting:Number>

Note: See "Error list" for any response other than the above.

Setting values for <Sharpness setting:Number> are -10 to 10.

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) This sets the currently selected input signal and image mode.

Example

(Setting)
 >SHARP=3
 < i:OK

(Reference)
 > GET=SHARP
 < g:SHARP=3

Note: '>' indicates a command; '<' indicates a response.

SIGMSG

Input status display

Format

Setting	Command	SIGMSG=<Input status display setting parameter:ID>
	Response	i:OK
Reference	Command	GET=SIGMSG
	Response	g:SIGMSG=<Input status display setting parameter:ID>

Note: See "Error list" for any response other than the above.

<Input status display setting parameter:ID>

Parameter	Meaning
ON	Turned on
OFF	Turned off

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON		D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes

Example

(Setting)
 >SIGMSG=ON
 < i:OK

(Reference)
 > GET=SIGMSG
 < g:SIGMSG=ON

Note: '>' indicates a command; '<' indicates a response.

SIGNAL_INFO

Displayed signal information inquiry

Format

Setting	Command	-
	Response	-
Reference	Command	GET=SIGNAL_INFO
	Response	g:SIGNAL_INFO="<Input signal information:Character string>

Note: See "Error list" for any response other than the above.

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) For USB or LAN, g:SIGNAL_INFO="" is returned even when an image is displayed.
- (2) "e:1011 FUNCTION_NOT_AVAILABLE" is returned while a test pattern is displayed.

Example

```
> GET=SIGNAL_INFO
< g:SIGNAL_INFO="1920 x 1200 60"
```

Note: '>' indicates a command; '<' indicates a response.

SIGNALSTATUS

Signal detection inquiry

Format

Setting	Command	-
	Response	-
Reference	Command	GET=SIGNALSTATUS
	Response	g:SIGNALSTATUS=<Signal status:ID>

Note: See "Error list" for any response other than the above.

< Signal status parameter:ID >

Parameter	Meaning
NO_SIGNAL	Signal not detected
DISPLAYING	Image now displayed or display enable status
SETTING	Signal detection or display preparation in progress

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This returns the signal status of the selected input.
- (2) "e:1011 FUNCTION_NOT_AVAILABLE" is returned during BLANK.

Example

```
> GET=SIGNALSTATUS
< g:SIGNALSTATUS=NO_SIGNAL
```

Note: '>' indicates a command; '<' indicates a response.

TEMP

Temperature sensor value inquiry

Format

Setting	Command	-
	Response	-
Reference	Command	GET=TEMP
	Response	g:TEMP=<Number of sensors>,<Sensor 1 value>,...,<Sensor n value>

Note: See "Error list" for any response other than the above.

Environment

Power mode restriction								Input							
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Remarks

- (1) There are cases when number of sensors is 0. In this case, there will not be a comma.

Example

```
> GET=TEMP
< g:TEMP=5,28.5,53.3,53.3,53.3,33.0
```

Note: '>' indicates a command; '<' indicates a response.

TPTN

Test pattern

Format

Setting	Command	TPTN=<Test pattern parameter:ID>
	Response	i:OK
Reference	Command	GET=TPTN
	Response	g:TPTN=<Test pattern parameter:ID>

Note: See "Error list" for any response other than the above.

< Test pattern parameter:ID>

Parameter	Meaning
OFF	Turned off
CB1	Color bar
SSH1	Stair step H No.1
SSH2	Stair step H No.2
SSH3	Stair step H No.3
SSV1	Stair step V No.1
SSV2	Stair step V No.2
SSV3	Stair step V No.3
RTF1	Raster 100% White
RTF2	Raster 100% Red
RTF3	Raster 100% Green
RTF4	Raster 100% Blue
RTH1	Raster 50% White
RTH2	Raster 50% Red
RTH3	Raster 50% Green
RTH4	Raster 50% Blue
SSC1	Stair step color
CKR1	Checker No.1
CKR2	Checker No.2
MUL1	Multi No.1
MUL2	Multi No.2
CHR1	Character
FCS1	Focus
BDR1	Border
CRS1	Cross hatch 8 divided
CRS2	Cross hatch 12 divided
CRS3	Cross hatch 4 divided

Environment

Power mode restriction									Input						
LAN					RS-232C										
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None	
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Example

```
(Setting)
> TPTN=OFF
< i:OK
```

(Reference)
> GET=TPTN
< g:TPTN=OFF

Note: '>' indicates a command; '<' indicates a response.

ZSCLR

Zoom

Format

Setting	Command	ZSCLR=<Zoom setting value:Number>-
	Response	i=OK
Reference	Command	GET=ZSCLR
	Response	g:ZSCLR=<Zoom setting value:Number>-

Note: See "Error list" for any response other than the above.

Setting values for <Zoom setting value:Number> are -60 to 0.

Environment

Power mode restriction								Input						
LAN					RS-232C									
SL0	SL1	SL3	PM	ON	ST	PM	ON	D-RGB	A-RGB	COMP	HDMI	LAN	USB	None
No	No	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Remarks

- (1) This command can be used when a lens without optical zoom is attached.

Example

(Setting)

> ZSCLR=-10

< i:OK

(Reference)

> GET=ZSCLR

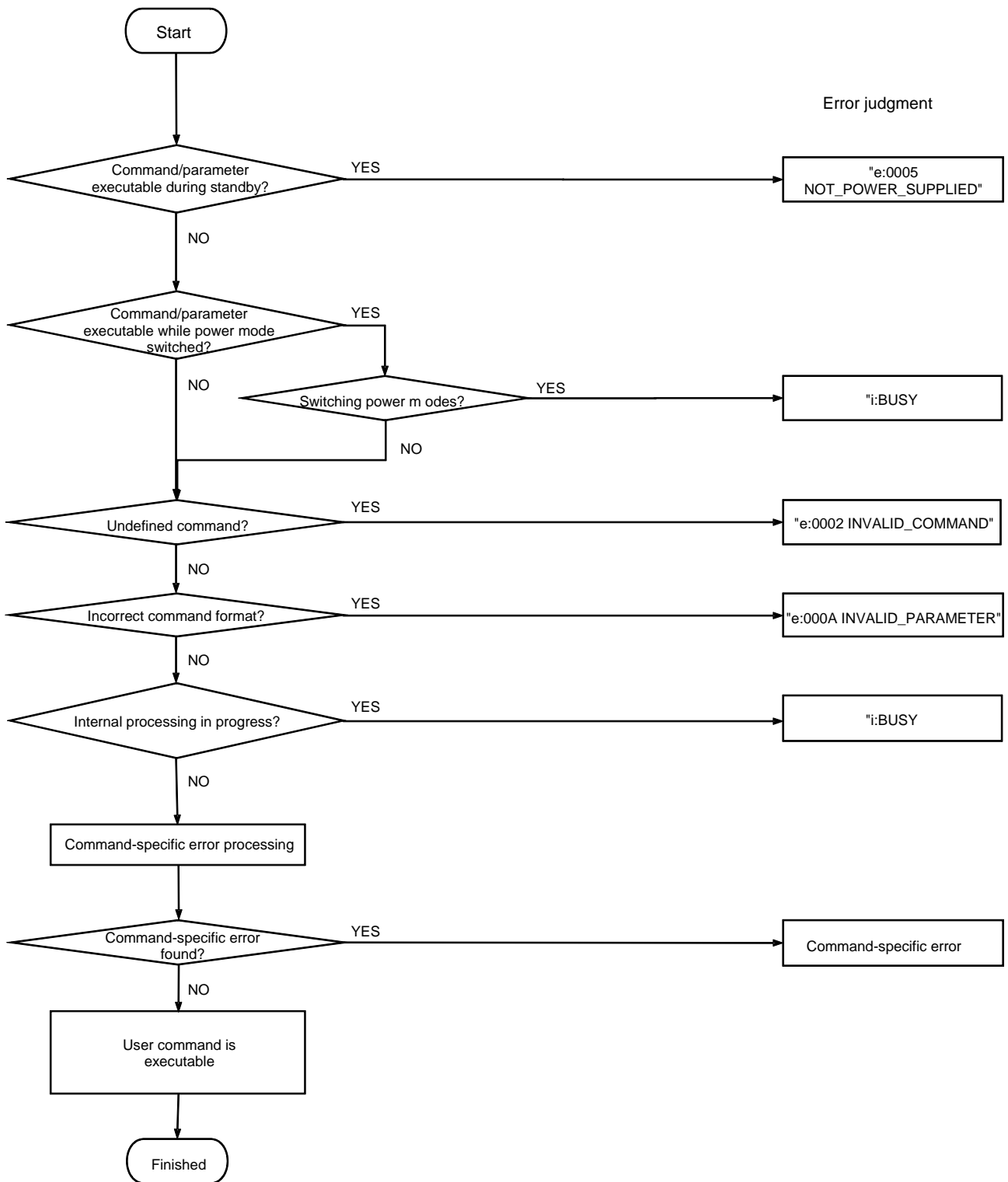
< g:ZSCLR=-10

Note: '>' indicates a command; '<' indicates a response.

7. Error List

Response	Description	Reaction
i:OK	The command was successfully processed.	
e:0002 INVALID_COMMAND	The command was invalid (not defined), or the command format was incorrect.	Use a correct command or correct command format.
e:000A INVALID_PARAMETER	Argument (parameter) of the command is invalid.	Use a correct argument (parameter).
e:F001 SYSTEM	An internal error occurred.	Resend the command. Note: If the error persists after repeatedly resending the command with some intervals, turn off the projector and then disconnect and reconnect the power cord before resending the command.
e:0005 NOT_POWER_SUPPLIED	The power is off.	Send the command while the power is on.
i:BUSY	Cannot execute as the projector is undergoing internal processing.	Wait for a while, and resend the command.
e:1011 FUNCTION_NOT_AVAILABLE	The operation is currently invalid. The setting cannot be made in the current status.	Take one of the following actions: <ul style="list-style-type: none"> · Return the UI state to the usual projection mode, and then resend the command. · Activate the function from the menu, and resend the command. (Commands may be deactivated by the related menu items.)
e:201F INVALID_SIGNAL	Cannot execute with the current input signal.	Send the command when a different input signal is input.

8. Error Processing



9. Simplified Version for the Manual

Command type		ASCII notation	Binary notation
Power supply	Power ON	POWER=ON<CR>	50h 4Fh 57h 45h 52h 3Dh 4Fh 4Eh 0Dh
	Power OFF	POWER=OFF<CR>	50h 4Fh 57h 45h 52h 3Dh 4Fh 46h 46h 0Dh
Power status inquiry		GET=POWER<CR>	47h 45h 54h 3Dh 50h 4Fh 57h 45h 52h 0Dh
Input	HDMI	INPUT=HDMI<CR>	49h 4Eh 50h 55h 54h 3Dh 48h 44h 4Dh 49h 0Dh
	Digital PC	INPUT=D-RGB<CR>	49h 4Eh 50h 55h 54h 3Dh 44h 2Dh 52h 47h 42h 0Dh
	Analog PC-1	INPUT=A-RGB1<CR>	49h 4Eh 50h 55h 54h 3Dh 41h 2Dh 52h 47h 42h 31h 0Dh
	Analog PC-2	INPUT=A-RGB2<CR>	49h 4Eh 50h 55h 54h 3Dh 41h 2Dh 52h 47h 42h 32h 0Dh
	Component	INPUT=COMP<CR>	49h 4Eh 50h 55h 54h 3Dh 43h 4Fh 4Dh 50h 0Dh
	LAN	INPUT=LAN<CR>	49h 4Eh 50h 55h 54h 3Dh 4Ch 41h 4Eh 0Dh
	USB	INPUT=USB<CR>	49h 4Eh 50h 55h 54h 3Dh 55h 53h 42h 0Dh
Input inquiry		GET=INPUT<CR>	47h 45h 54h 3Dh 49h 4Eh 50h 55h 54h 0Dh
Image mode setting	Standard	IMAGE=STANDARD<CR>	49h 4Dh 41h 47h 45h 3Dh 53h 54h 41h 4Eh 44h 41h 52h 44h 0Dh
	Presentation	IMAGE=PRESENTATION<CR>	49h 4Dh 41h 47h 45h 3Dh 50h 52h 45h 53h 45h 4Eh 54h 41h 54h 49h 4Fh 4Eh 0Dh
	Vivid photo	IMAGE=VIVID_PHOTO<CR>	49h 4Dh 41h 47h 45h 3Dh 56h 49h 56h 49h 44h 5Fh 50h 48h 4Fh 54h 4Fh 0Dh
	Photo / sRGB	IMAGE=PHOTO_SRGB<CR>	49h 4Dh 41h 47h 45h 3Dh 50h 48h 4Fh 54h 4Fh 5Fh 53h 52h 47h 42h 0Dh
	Dynamic	IMAGE=DYNAMIC<CR>	49h 4Dh 41h 47h 45h 3Dh 44h 59h 4Eh 41h 4Dh 49h 43h 0Dh
	Video	IMAGE=VIDEO<CR>	49h 4Dh 41h 47h 45h 3Dh 56h 49h 44h 45h 4Fh 0Dh
	Cinema	IMAGE=CINEMA<CR>	49h 4Dh 41h 47h 45h 3Dh 43h 49h 4Eh 45h 4Dh 41h 0Dh
	User 1	IMAGE=USER_1<CR>	49h 4Dh 41h 47h 45h 3Dh 55h 53h 45h 52h 5Fh 31h 0Dh
	User 2	IMAGE=USER_2<CR>	49h 4Dh 41h 47h 45h 3Dh 55h 53h 45h 52h 5Fh 32h 0Dh
	User 3	IMAGE=USER_3<CR>	49h 4Dh 41h 47h 45h 3Dh 55h 53h 45h 52h 5Fh 33h 0Dh
	User 4	IMAGE=USER_4<CR>	49h 4Dh 41h 47h 45h 3Dh 55h 53h 45h 52h 5Fh 34h 0Dh
User 5	IMAGE=USER_5<CR>	49h 4Dh 41h 47h 45h 3Dh 55h 53h 45h 52h 5Fh 35h 0Dh	
Image mode inquiry		GET=IMAGE<CR>	47h 45h 54h 3Dh 49h 4Dh 41h 47h 45h 0Dh
Brightness	Brightness setting	BRI=<Number><CR>	42h 52h 49h 3Dh <Number code> 0Dh
Brightness inquiry		GET=BRI<CR>	47h 45h 54h 3Dh 42h 52h 49h 0Dh
Sharpness	Sharpness setting	SHARP=<Number><CR>	53h 48h 41h 52h 50h 3Dh <Number code> 0Dh
Sharpness inquiry		GET=SHARP<CR>	47h 45h 54h 3Dh 53h 48h 41h 52h 50h 0Dh
Contrast	Contrast setting	CONT=<Number><CR>	43h 4Fh 4Eh 54h 3Dh <Number code> 0Dh
Contrast inquiry		GET=CONT<CR>	47h 45h 54h 3Dh 43h 4Fh 4Eh 54h 0Dh
Aspect ratio	Auto	ASPECT=AUTO<CR>	41h 53h 50h 45h 43h 54h 3Dh 41h 55h 54h 4Fh 0Dh
	4:3	ASPECT=4:3<CR>	41h 53h 50h 45h 43h 54h 3Dh 34h 3Ah 33h 0Dh
	16:9	ASPECT=16:9<CR>	41h 53h 50h 45h 43h 54h 3Dh 31h 36h 3Ah 39h 0Dh
	16:10	ASPECT=16:10<CR>	41h 53h 50h 45h 43h 54h 3Dh 31h 36h 3Ah 31h 30h 0Dh
	Zoom	ASPECT=ZOOM<CR>	41h 53h 50h 45h 43h 54h 3Dh 5Ah 4Fh 4Fh 4Dh 0Dh
	Real	ASPECT=TRUE<CR>	41h 53h 50h 45h 43h 54h 3Dh 54h 52h 55h 45h 0Dh

Aspect ratio inquiry		GET=ASPECT<CR>	47h 45h 54h 3Dh 41h 53h 50h 45h 43h 54h 0Dh
Lamp mode	Full power	LAMP=FULL<CR>	4Ch 41h 4Dh 50h 3Dh 46h 55h 4Ch 4Ch 0Dh
	Eco	LAMP=ECO<CR>	4Ch 41h 4Dh 50h 3Dh 45h 43h 4Fh 0Dh
Lamp mode inquiry		GET=LAMP<CR>	47h 45h 54h 3Dh 4Ch 41h 4Dh 50h 0Dh
Blank	Execute	BLANK=ON<CR>	42h 4Ch 41h 4Eh 4Bh 3Dh 4Fh 4Eh 0Dh
	Clear	BLANK=OFF<CR>	42h 4Ch 41h 4Eh 4Bh 3Dh 4Fh 46h 46h 0Dh
Blank inquiry		GET=BLANK<CR>	47h 45h 54h 3Dh 42h 4Ch 41h 4Eh 4Bh 0Dh